

Hose & Coupling Reference Guide

- High Pressure Hose & Couplings
- Low & Medium Pressure Hose & Couplings
- Special Application Hose & Couplings



Third Edition

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Introduction

As system pressures and other demands on today's equipment increase, so does the need for reliable hose and couplings. Why tolerate premature hose and coupling failures when we can help you avoid them with superior hose products and service?

Caterpillar stands alone as the only equipment manufacturer who makes its own hose and coupling products. This catalog includes information on Caterpillar low, medium and high pressure hose and coupling product lines. We have a full stock of replacement products for earthmoving and other applications. That means no more running from one source to another to find the parts you need.

Caterpillar Hose Products Exceed Industry Standards

Cat hose and couplings are designed to work together as a system for problem-free performance, no matter what brand of machine you operate. Testing performance for most products exceeds SAE requirements. Most hoses meet the MSHA flame resistance requirements as well.

XT Hose and Couplings ... Differentiation

Caterpillar's superior hose construction and testing differentiates it from other manufacturers. Caterpillar was the first to design and manufacture high pressure hydraulic hose known throughout the industry as XT hose. XT hose standards far exceed industry standards still today. XT hose is impulse tested to one million cycles - twice the industry requirement - at 133% of working pressure using both new and aged hose.

The differentiation does not stop at the hose. Caterpillar offers reusable couplings for XT hose to help keep your owning and operating costs at a minimum. Caterpillar reusable couplings for XT hose are the last coupling you should ever need.

XT-3 ES Hose

Caterpillar's XT-3 ES hose provides up to 20 times more abrasion resistance than the industry's best rubber-covered hose, due to an exclusive cover formulated and manufactured by Caterpillar. Cat XT-3 ES hose works at half of the SAE bend radius without sacrificing cold flex capability.

Caterpillar® 1956 Hose and Couplings Meet Your Mixed Fleet Needs

(1956 hose (DIN 20023 4SP) and coupling) The product line joins the extensive line of high pressure XT hose components that have set the industry standard for reliability and durability for nearly 30 years.

Caterpillar® Low and Medium Hose and Couplings

Caterpillar manufactures one wire braid (716), two wire braid (294) and hydraulic suction (844) hose and couplings. These too exceed SAE requirements for the best in reliable hose and coupling performance. These hoses are impulse tested in both the unaged and aged condition, up to two and a half times the number of cycles required by SAE, to assure reliable performance.

Caterpillar 716 and 294 hose and couplings also meet DIN 20022 1SN and 20022 2SN standards.

Caterpillar Special Application Hose and Couplings

Caterpillar offers a complete line of thermoplastic, engine / air brake and air conditioning hose and couplings, including a line of reduced outside diameter (O.D.) thermoplastic hose and couplings (2760), used extensively in earthmoving equipment hydraulic pilot lines.

More of Your Equipment Can Be Converted to Cat Hose

With the Cat hose and coupling product line, more systems can be converted to high quality Cat hose and couplings. This is only a short rundown of industries which have found success in their conversions to Cat Hose:

Mining	Pulp and Plywood Mills
Logging	Manufacturing Plants
Petroleum	Agriculture
Railroads	Waste/Refuse
Construction	

Hydraulic System Services

When you need hose repairs, we can provide fast, over-the-counter service by making hose assemblies to your specifications while you wait. Better yet, call ahead and we can have them waiting for you.

If you prefer to make your own assemblies, we can help there, too. We will set you up with the proper tooling and training and even assist with stocking requirements.

Whatever your hydraulic system needs, we have the resources to get your machines up and running quickly with the work done right the first time.

When you need quality hose and couplings, it makes sense to use the best available. You can trust Cat Hose and Couplings for all your needs!

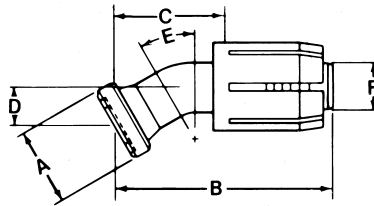
Introduction

Before You Measure Hose and Stem Assemblies, Review This Information

1. Determine what type of hose assembly is to be replaced.
2. Measure the inside diameter of the hose.
3. Measure the angle, actual head size, and length of the stem assemblies.
4. Select the proper stem assembly from the part numbers pages.
 - a. Locate inside diameters for your hose.
 - b. Check the list of actual head sizes and lengths of stem assemblies.
 - c. Locate the desired angle for your stem assembly.
 - d. When all the dimensions agree, locate the part number.
5. Add the cut-off factors for your stem assemblies.
6. Subtract this total length from the overall length of the hose assembly.
7. Cut bulk hose to length needed for hose assembly.
8. Assemble the new hose assembly using sleeves, stems, and armor if needed.

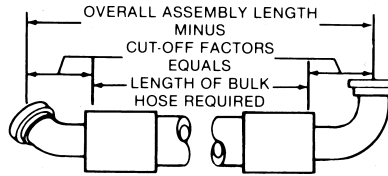
Coupling Dimensions

- A. Actual Head Size
- B. Stem Assembly Length
- C. Cut-Off Factor
- D. Drop Length
- E. Degree of Angle
- F. Hose Inside Diameter

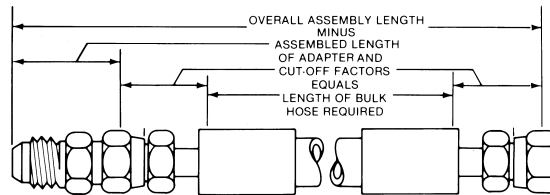


Hose Assembly Measurements

Flange-type Assembly—Subtract the cut-off factors from the overall assembly length to determine the length of bulk hose required.



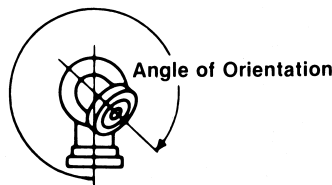
Thread-type Assembly—Subtract the cut-off factors and the assembled length of the adapter from the overall assembly length to determine the bulk hose required.



Assemblies are measured to the centerline of the sealing surface.

Coupling Angle of Orientation

The angle of orientation between the stem assemblies is measured with the far stem assembly vertically downward and viewing the assembly from the near stem assembly end.



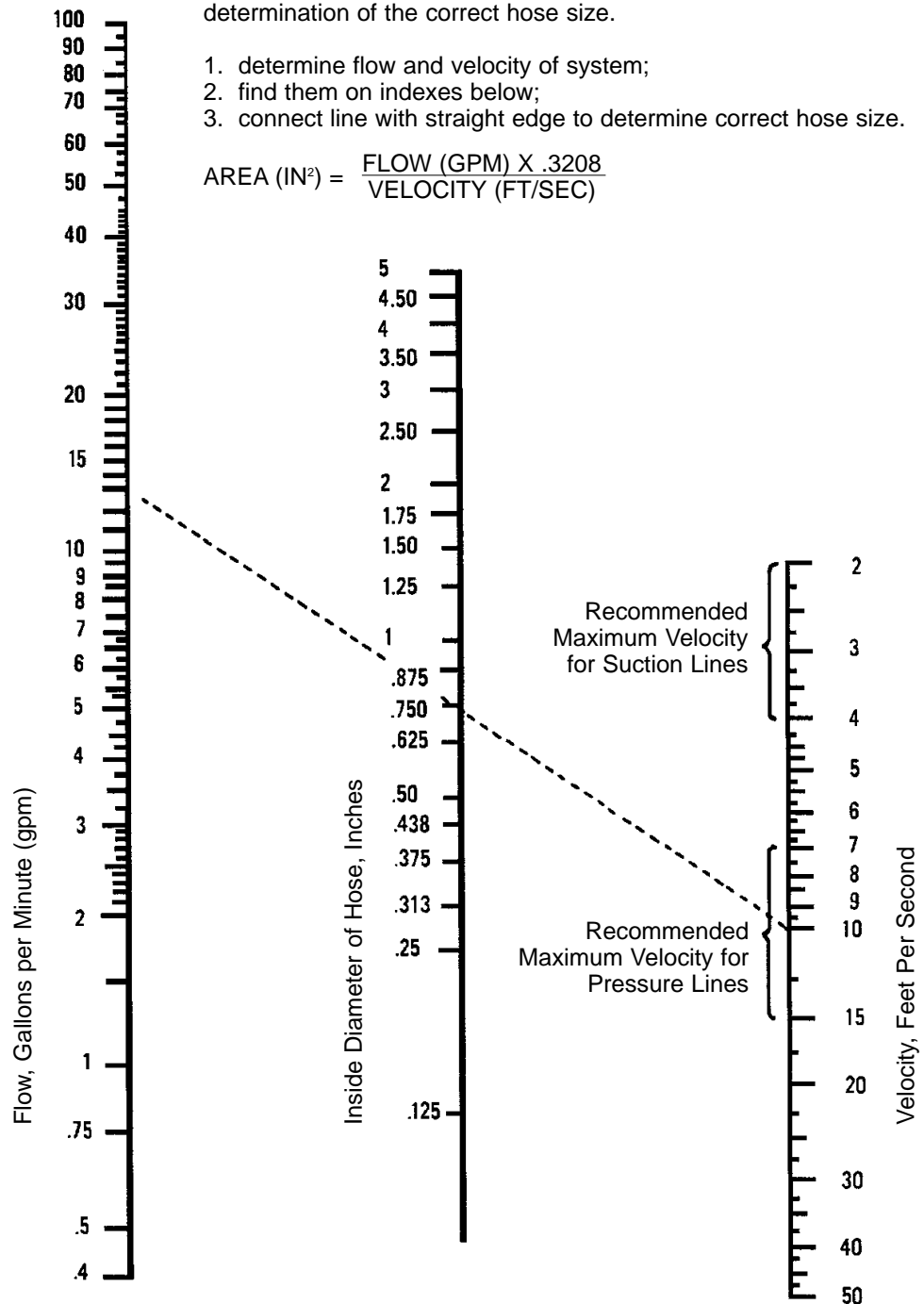
Flow Capacity Nomograph

Flow Capacities of Caterpillar Hose at Recommended Flow Velocities

The chart below is designed and provided as an aid in the determination of the correct hose size.

1. determine flow and velocity of system;
2. find them on indexes below;
3. connect line with straight edge to determine correct hose size.

$$\text{AREA (IN}^2\text{)} = \frac{\text{FLOW (GPM)} \times .3208}{\text{VELOCITY (FT/SEC)}}$$



Industry Standard Comparison

SAE 100R1AT vs Cat One-Wire Braid Hose (716)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			100R1	716	100R1	716	100R1	716
-3	0.188	4.8	3000	—	207	—	20,700	—
-4	0.250	6.4	2750	2750	190	190	19,000	19,000
-5	0.313	7.9	2500	—	172	—	17,200	—
-6	0.375	9.5	2250	2250	155	155	15,500	15,500
-8	0.500	12.7	2000	2000	138	138	13,800	13,800
-10	0.625	15.9	1500	1500	103	103	10,300	10,300
-12	0.750	19.1	1250	1250	86	86	8600	8600
-16	1.000	25.4	1000	1000	69	69	6900	6900
-20	1.250	31.8	625	625	43	43	4300	4300
-24	1.500	38.1	500	500	34	34	3400	3400
-32	2.000	50.8	375	375	26	26	2600	2600

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
100R1			
-3 to -16	125% of W.P.♦	+212°F (+100°C)	150,000
-20 to -32	100% of W.P.	+212°F (+100°C)	150,000
716			
All Sizes	100% of W.P.	+275°F (+135°C)	250,000#

TEMPERATURE CAPABILITIES

100R1:	-40°F to +212°F (-40°C to +100°C)
716:	-40°F to +275°F (-40°C to +135°C)

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, 716 hose is aged at +300°F (+150°C) for 200 hours and -25°F (-32°C) for 18 hours prior to impulse testing. In addition, in the middle and at the end of each impulse test, no leaks are allowed after the oil cools to room temperature and the test machine is restarted. SAE does not require aged samples or room temperature leak checks.

♦W.P. = Working Pressure

DIN 20022 1SN vs Cat One-Wire Braid Hose (716)

WORKING PRESSURE*

DIN DN SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			20022 1SN	716	20022 1SN	716	20022 1SN	716
5	0.188	4.8	3625	—	250	—	25,000	—
6	0.250	6.4	3263	3263	225	225	22,500	22,500
8	0.313	7.9	3118	—	215	—	21,500	—
10	0.375	9.5	2610	2610	180	180	18,000	18,000
12	0.500	12.7	2320	2320	160	160	16,000	16,000
16	0.625	15.9	1885	1885	130	130	13,000	13,000
20	0.750	19.1	1523	1523	105	105	10,500	10,500
25	1.000	25.4	1276	1276	88	88	8800	8800
32	1.250	31.8	914	914	63	63	6300	6300
40	1.500	38.1	725	725	50	50	5000	5000
50	2.000	50.8	580	580	40	40	4000	4000

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
DIN 20022 1SN			
5 to 25	125% of W.P.♦	+212°F (+100°C)	150,000
32 to 50	100% of W.P.	+212°F (+100°C)	150,000
716			
5 to 25	125% of W.P.	+212°F (+100°C)	150,000#
32 to 50	100% of W.P.	+212°F (+100°C)	150,000#

TEMPERATURE CAPABILITIES

DIN 20022 1SN:	-40°F to +212°F (-40°C to +100°C)
716:	-40°F to +212°F (-40°C to +100°C)

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, 716 hose was tested against the DIN 20022 1SN specifications for use in DIN applications.

♦W.P. = Working Pressure

Industry Standard Comparison

SAE 100R2AT[♦] vs Cat Two-Wire Braid Hose (294)

WORKING PRESSURE*									IMPULSE TESTING			
HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)		TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES	
			100R2	294	100R2	294	100R2	294				
-3	0.188	4.8	5000	—	345	—	34,500	—	100R2 All Sizes	133% of W.P.♦	+212°F (+100°C)	200,000
-4	0.250	6.4	5000	5000	345	345	34,500	34,500				
-5	0.313	7.9	4250	4250	293	293	29,300	29,300	All Sizes	133% of W.P.	+212°F (+100°C)	500,000#
-6	0.375	9.5	4000	4000	276	276	27,600	27,600				
-8	0.500	12.7	3500	3500	241	241	24,100	24,100	TEMPERATURE CAPABILITIES			
-10	0.625	15.9	2750	2750	190	190	19,000	19,000				
-12	0.750	19.1	2250	2250	155	155	15,500	15,500	100R2:	-40°F to +212°F (-40°C to +100°C)		
-16	1.000	25.4	2000	2000	138	138	13,800	13,800	294:	-40°F to +212°F (-40°C to +100°C)		
-20	1.250	31.8	1625	1625	112	112	11,200	11,200				
-24	1.500	38.1	1250	1250	86	86	8600	8600				
-32	2.000	50.8	1125	1125	78	78	7800	7800				

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, 294 hose is aged at +225°F (+107°C) for 150 hours and -25°F (-32°C) for 18 hours prior to impulse testing. In addition, in the middle and at the end of each impulse test, no leaks are allowed after the oil cools to room temperature and the test machine is restarted. SAE does not require aged samples or room temperature leak checks.

♦W.P. = Working Pressure

♦ AT designates the thinner cover used on no-skive hose.

DIN 20022 2SN vs Cat Two-Wire Braid Hose (294)

WORKING PRESSURE*									IMPULSE TESTING			
DIN DN SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)		TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES	
			20022 2SN	294	20022 2SN	294	20022 2SN	294				
5	0.188	4.8	6018	—	415	—	41,500	—	DIN 20022 2SN All Sizes	133% of W.P.♦	+212°F (+100°C)	200,000
6	0.250	6.4	5800	5800	400	400	40,000	40,000				
8	0.313	7.9	5075	5075	350	350	35,000	35,000	All Sizes	133% of W.P.	+212°F (+100°C)	200,000#
10	0.375	9.5	4785	4785	330	330	33,000	33,000				
12	0.500	12.7	3988	3988	275	275	27,500	27,500	TEMPERATURE CAPABILITIES			
16	0.625	15.9	3625	3625	250	250	25,000	25,000				
20	0.750	19.1	3118	3118	215	215	21,500	21,500	DIN 20022 2SN:	-40°F to +212°F (-40°C to +100°C)		
25	1.000	25.4	2393	2393	165	165	16,500	16,500	294:	-40°F to +212°F (-40°C to +100°C)		
32	1.250	31.8	1813	1813	125	125	12,500	12,500				
40	1.500	38.1	1305	1305	90	90	9000	9000				
50	2.000	50.8	1160	1160	80	80	8000	8000				

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, 294 hose was tested against the DIN 20022 2SN specifications for use in DIN applications.

♦W.P. = Working Pressure

Industry Standard Comparison

SAE 100R4 vs Cat Hydraulic Suction Hose (844)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			100R4	844	100R4	844	100R4	844
-3	0.188	4.8	—	—	—	—	—	—
-4	0.250	6.4	—	—	—	—	—	—
-5	0.313	7.9	—	—	—	—	—	—
-6	0.375	9.5	—	—	—	—	—	—
-8	0.500	12.7	—	—	—	—	—	—
-10	0.625	15.9	—	—	—	—	—	—
-12	0.750	19.1	300	300	21	21	2100	2100
-16	1.000	25.4	250	250	17	17	1700	1700
-20	1.250	31.8	200	200	14	14	1400	1400
-24	1.500	38.1	150	150	10	10	1000	1000
-32	2.000	50.8	100	100	7	7	700	700

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
100R4			
All Sizes	NO IMPULSE TESTING PERFORMED		
844			
All Sizes	NO IMPULSE TESTING PERFORMED		

TEMPERATURE CAPABILITIES

100R4:	-40°F to +212°F	(-40°C to +100°C)
844:	-40°F to +275°F	(-40°C to +135°C)

SAE 100R5 vs Cat One-Wire Braid Hose - Fabric Covered (556)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			100R5	556	100R5	556	100R5	556
-4	0.188	4.8	3000	3000	207	207	20,700	20,700
-5	0.250	6.4	3000	3000	207	207	20,700	20,700
-6	0.313	7.9	2250	2250	155	155	15,500	15,500
-8	0.406	10.3	2000	2000	138	138	13,800	13,800
-10	0.500	12.7	1750	1750	121	121	12,100	12,100
-12	0.625	15.9	1500	1500	103	103	10,300	10,300
-16	0.875	22.2	800	800	55	55	5500	5500
-20	1.125	28.6	625	625	43	43	4300	4300
-24	1.375	34.9	500	500	34	34	3400	3400
-32	1.813	46.0	350	—	24	—	2400	—

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, 556 hose is aged at +275°F (+135°C) for 200 hours and -25°F (-32°C) for 18 hours prior to impulse testing. In addition, in the middle and at the end of each impulse test, no leaks are allowed after the oil cools to room temperature and the test machine is restarted. SAE does not require aged samples or room temperature leak checks.

◆W.P. = Working Pressure

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
100R5			
-4 to -16	125% of W.P.◆	+212°F (+100°C)	150,000
-20 to -32	100% of W.P.	+212°F (+100°C)	100,000
556			
-4 to -16	125% of W.P.	+250°F (+120°C)	150,000#
-20 to -32	100% of W.P.	+250°F (+120°C)	100,000#

TEMPERATURE CAPABILITIES

100R5:	-40°F to +212°F	(-40°C to +100°C)
556:	-40°F to +250°F	(-40°C to +121°C)

Industry Standard Comparison

SAE 100R7 vs Cat Thermoplastic Hose (1028)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			100R7	1028	100R7	1028	100R7	1028
-3	0.188	4.8	3000	3000	207	207	20,700	20,700
-4	0.250	6.4	2750	2750	190	190	19,000	19,000
-5	0.313	7.9	2500	2500	172	172	17,200	17,200
-6	0.375	9.5	2250	2250	155	155	15,500	15,500
-8	0.500	12.7	2000	2000	138	138	13,800	13,800
-10	0.625	15.9	1500	—	103	—	10,300	—
-12	0.750	19.1	1250	1250	86	86	8,600	8,600
-16	1.000	25.4	1000	—	69	—	6,900	—
-20	1.250	31.8	—	—	—	—	—	—
-24	1.500	38.1	—	—	—	—	—	—
-32	2.000	50.8	—	—	—	—	—	—

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, 1028 hose is aged at +200°F (+93°C) for 150 hours and -25°F (-32°C) for 18 hours prior to impulse testing. In addition, in the middle and at the end of each impulse test, no leaks are allowed after the oil cools to room temperature and the test machine is restarted. SAE does not require aged samples or room temperature leak checks.

◆W.P. = Working Pressure

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
100R7			
All Sizes	125% of W.P.◆	+200°F (+93°C)	150,000
1028			
All Sizes	100% of W.P.	+200°F (+93°C)	1,000,000
OR	133% of W.P.	+200°F (+93°C)	150,000#

TEMPERATURE CAPABILITIES

100R7:	-40°F to +200°F (-40°C to +93°C)
1028:	-70°F to +200°F (-56°C to +93°C)

SAE 100R12 vs XT-3 ES Hose (736)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			100R12	XT-3	100R12	XT-3	100R12	XT-3
-3	0.188	4.8	—	—	—	—	—	—
-4	0.250	6.4	—	—	—	—	—	—
-5	0.313	7.9	—	—	—	—	—	—
-6	0.375	9.5	4000	4000	280	280	28,000	28,000
-8	0.500	12.7	4000	4000	280	280	28,000	28,000
-10	0.625	15.9	—	4000	—	280	—	28,000
-12	0.750	19.1	4000	4000	280	280	28,000	28,000
-16	1.000	25.4	4000	4000	280	280	28,000	28,000
-20	1.250	31.8	3000	3000	210	210	21,000	21,000
-24	1.500	38.1	2500	2500	175	175	17,500	17,500
-32	2.000	50.8	2500	2500	175	175	17,500	17,500

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, XT-3 ES hose is aged at +250°F (+121°C) for 150 hours and -25°F (-32°C) for 18 hours prior to impulse testing. In addition, in the middle and at the end of each impulse test, no leaks are allowed after the oil cools to room temperature and the test machine is restarted. SAE does not require aged samples or room temperature leak checks.

◆W.P. = Working Pressure

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
100R12			
All Sizes	133% of W.P.◆	+250°F (+121°C)	500,000
XT-3 ES			
All Sizes	133% of W.P.	+250°F (+121°C)	1,000,000#

TEMPERATURE CAPABILITIES

100R12:	-40°F to +250°F (-40°C to +121°C)
XT-3 ES:	-40°F to +250°F (-40°C to +121°C)

BEND RADIUS

100R12:	SAE
XT-3 ES:	1/2 SAE

Industry Standard Comparison

DIN 20023 4SP vs Cat DIN Four-Wire Spiral Hose (1956)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			20023 4SP	1956	20023 4SP	1956	20023 4SP	1956
-3	0.188	4.8	—	—	—	—	—	—
-4	0.250	6.4	—	—	—	—	—	—
-5	0.313	7.9	—	—	—	—	—	—
-6	0.375	9.5	6453	6453	445	445	44,500	44,500
-8	0.500	12.7	6018	6018	415	415	41,500	41,500
-10	0.625	15.9	5075	5075	350	350	35,000	35,000
-12	0.750	19.1	5075	5075	350	350	35,000	35,000
-16	1.000	25.4	4060	4060	280	280	28,000	28,000
-20	1.250	31.8	3045	3045	210	210	21,000	21,000
-24	1.500	38.1	2683	2683	185	185	18,500	18,500
-32	2.000	50.8	2393	2393	165	165	16,500	16,500

*Minimum burst pressure will always be 4X the maximum working pressure.

◆W.P. = Working Pressure

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
DIN 20023 4SP			
All Sizes	133% of W.P.◆	+212°F (+100°C)	400,000
1956			
All Sizes	133% of W.P.	+212°F (+100°C)	400,000

TEMPERATURE CAPABILITIES

DIN 20023 4SP: -40°F to +212°F (-40°C to +100°C)
1956: -40°F to +212°F (-40°C to +100°C)

SAE 100R13 vs XT-5 Hose (1036)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			100R13	XT-5	100R13	XT-5	100R13	XT-5
-3	0.188	4.8	—	—	—	—	—	—
-4	0.250	6.4	—	—	—	—	—	—
-5	0.313	7.9	—	—	—	—	—	—
-6	0.375	9.5	—	—	—	—	—	—
-8	0.500	12.7	—	—	—	—	—	—
-10	0.625	15.9	—	—	—	—	—	—
-12	0.750	19.1	5000	5000	345	345	35,000	35,000
-16	1.000	25.4	5000	5000	345	345	35,000	35,000
-20	1.250	31.8	5000	5000	345	345	35,000	35,000
-24	1.500	38.1	5000	5000	345	345	35,000	35,000
-32	2.000	50.8	—	5000	—	345	—	35,000

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#For this test, XT-5 hose is aged at +250°F (+121°C) for 150 hours and -25°F (-32°C) for 18 hours prior to impulse testing. In addition, in the middle and at the end of each impulse test, no leaks are allowed after the oil cools to room temperature and the test machine is restarted. SAE does not require aged samples or room temperature leak checks.

◆W.P. = Working Pressure

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
100R13			
All Sizes	120% of W.P.◆	+250°F (+121°C)	500,000
XT-5			
All Sizes	120% of W.P.	+250°F (+121°C)	1,000,000#

TEMPERATURE CAPABILITIES

100R13: -40°F to +250°F (-40°C to +121°C)
XT-5: -40°F to +250°F (-40°C to +121°C)

Industry Standard Comparison

SAE J1402 vs Cat Engine and Air Brake Hose (1130)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			J1402	1130	J1402	1130	J1402	1130
-4	0.188	4.8	225	2000	16	138	1600	13,800
-5	0.250	6.4	225	1500	16	103	1600	10,300
-6	0.313	7.9	225	1500	16	103	1600	10,300
-8	0.406	10.3	225	1250	16	86	1600	8,600
-10	0.500	12.7	225	1000	16	69	1600	6,900
-12	0.625	15.9	225	750	16	52	1600	5,200
-16	0.875	22.2	—	400	—	28	—	2,800
-20	1.125	28.6	—	300	—	21	—	2,100
-24	1.375	34.9	—	250	—	17	—	1,700
-32	1.813	46.0	—	—	—	—	—	—

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#Cat 1130 hose passes a severe hot oil circulation test that exposes the hose liner to +300°F oil for 750 hours with no cracking or leakage permitted; SAE J1402 requires no such test.

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
J1402			
All Sizes	NO IMPULSE TESTING PERFORMED		
1130			
All Sizes	NO IMPULSE TESTING PERFORMED#		

TEMPERATURE CAPABILITIES

J1402:	-40°F to +200°F (-40°C to +93°C)
1130:	-40°F to +275°F (-40°C to +135 °C)

SAE J51 Type D vs Cat Air Conditioning Hose (1543)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			J51-D	1543	J51-D	1543	J51-D	1543
-4	0.188	4.8	—	—	—	—	—	—
-5	0.250	6.4	—	—	—	—	—	—
-6	0.313	7.9	450	500	31	34	3100	3400
-8	0.406	10.3	450	500	31	34	3100	3400
-10	0.500	12.7	450	—	31	—	3100	—
-12	0.625	15.9	300	500	31	34	3100	3400
-16	0.875	22.2	—	—	—	—	—	—
-20	1.125	28.6	—	—	—	—	—	—
-24	1.375	34.9	—	—	—	—	—	—
-32	1.813	46.0	—	—	—	—	—	—

*Minimum burst pressure will always be 4X the maximum working pressure for both Caterpillar and SAE standard hose.

#1543 meets SAE standards for type-D hose concerning Freon permeation and moisture ingress. 1543 has a maximum Freon permeation of 5lbs/ft² per year at +300°F (+150°C). 1543 has a maximum moisture ingress of 16 g/100 in² per year. This hose can be used with SAE J2064 R134A refrigerant. Maximum permeation rate is 2 lbs/ft² per year at +176°F (+80°C).

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
J51-D			
All Sizes	NO IMPULSE TESTING PERFORMED		
1543			
All Sizes	NO IMPULSE TESTING PERFORMED#		

TEMPERATURE CAPABILITIES

J51-D:	-22°F to +248°F (-30°C to +120°C)
1543:	-22°F to +257°F (-30°C to +125°C)

Industry Standard Comparison

SAE 100R15 vs. XT-6 Hose (1136)

WORKING PRESSURE*

HOSE DASH SIZE	INNER DIAMETER (in)	INNER DIAMETER (mm)	MAX. WORK. PRESS. (psi)		MAX. WORK. PRESS. (BAR)		MAX. WORK. PRESS. (kPa)	
			100R15	XT-6	100R15	XT-6	100R15	XT-6
-3	0.188	4.8	—	—	—	—	—	—
-4	0.250	6.4	—	—	—	—	—	—
-5	0.313	7.9	—	—	—	—	—	—
-6	0.375	9.5	6000	6000	414	414	42,000	42,000
-8	0.500	12.7	6000	6000	414	414	42,000	42,000
-10	0.625	15.9	—	—	—	—	—	—
-12	0.750	19.1	6000	6000	414	414	42,000	42,000
-16	1.000	25.4	6000	6000	414	414	42,000	42,000
-20	1.250	31.8	6000	6000	414	414	42,000	42,000
-24	1.500	38.1	6000	—	414	—	42,000	—
-32	2.000	50.8	—	—	—	—	—	—

*Minimum burst pressure will always be 4X the maximum working pressure for Caterpillar hose.

#For this test, XT-6 hose is aged at +250°F (+121°C) for 150 hours and -25°F (-32°C) for 18 hours prior to impulse testing. In addition, in the middle and at the end of each impulse test, no leaks are allowed after the oil cools to room temperature and the test machine is restarted. SAE does not require aged samples or room temperature leak checks.

◆W.P. = Working Pressure

IMPULSE TESTING

	TEST PRESSURE	TEST TEMPERATURE	NUMBER OF CYCLES
100R15			
All Sizes	120% of W.P.◆	+250°F (+121°C)	500,000
XT-6			
All Sizes	120% of W.P.	+250°F (+121°C)	1,000,000#

TEMPERATURE CAPABILITIES

100R15:	-40°F to +250°F (-40°C to +121°C)
XT-6:	-40°F to +250°F (-40°C to +121°C)

SAE Comparison / DIN Comparison

Recommended Caterpillar Hose Replacements for SAE Specification Hoses

SAE SPECIFICATION	HOSE CONSTRUCTION	Dash	CATERPILLAR HOSE REPLACEMENTS for the indicated dash size											
			-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	
100R1	1 wire braid		**	716	294	716	716	716	716	716	716	716	716	716
100R2	2 wire braid		**	294	294	294	294	294	294	294	294	294	294	294
100R3	2 fiber braid		**	716	294	716	716	716	716	716	716	*	*	
100R4	Helical wire		*	*	*	*	*	*	844	844	844	844	844	
100R5	1 wire braid		*	556	556	556	556	556	556	556	556	556	**	
100R6	1 fiber braid		**	716	294	716	716	716	*	*	*	*	*	
100R7	Thermoplastic fiber braid	1028	1028	1028	1028	1028	**	1028	**	*	*	*		
100R8	Thermoplastic fiber braid		**	**	*	**	294	294	294	294	*	*	*	
100R9	4 spiral wire		*	*	*	XT-6	XT-3	*	XT-3	XT-3	XT-3	XT-3	XT-3	
100R10	4 spiral wire		**	**	*	**	**	*	XT-5	XT-5	XT-5	XT-5	XT-5	
100R11	6 spiral wire		**	**	*	**	**	*	**	XT-5	XT-5	XT-5	XT-5	
100R12	4 spiral wire		*	*	*	XT-3	XT-3	*	XT-3	XT-3	XT-3	XT-3	XT-3	
100R13	4 or 6 spiral wire		*	*	*	*	*	*	XT-5	XT-5	XT-5	XT-5	XT-5	
100R14	Teflon® lined		**	**	*	**	**	*	**	**	*	*	*	
100R15	6 spiral wire		**	**	**	XT-6	XT-6	**	XT-6	XT-6	XT-6	**	**	

* No SAE specification in this size

** No Caterpillar replacement hose available

DIN 2021, 2022, and 2023 Specifications: Maximum Working Pressure (bar/psi)

DIN SPECIFICATION	HOSE CONSTRUCTION	UNITS	DN Dash	MAXIMUM WORKING PRESSURE (bar/psi) for the indicated DN size/dash size										
				5 -3	6 -4	8 -5	10 -6	12 -8	16 -10	20 -12	25 -16	32 -20	40 -24	50 -32
2021 1TE	1 fiber braid	bar		25	25	20	20	16	16	*	*	*	*	*
		psi		363	363	290	290	232	232	*	*	*	*	*
2021 2TE	2 fiber braid	bar		80	75	68	63	58	50	45	40	*	*	*
		psi		1160	1088	986	914	841	725	653	580	*	*	*
2021 3TE	2 fiber braid	bar		160	145	130	110	93	80	70	55	45	40	33
		psi		2320	2103	1885	1595	1349	1160	1015	798	653	580	479
2022 1ST, 1SN	1 wire braid	bar		250	225	215	180	160	130	105	88	63	50	40
		psi		3625	3263	3118	2610	2320	1885	1523	1276	914	725	580
2022 2ST, 2SN	2 wire braid	bar		415	400	350	330	275	250	215	165	125	90	80
		psi		6018	5800	5075	4785	3988	3625	3118	2393	1813	1305	1160
2023 4SP	4 spiral wire	bar		*	450	*	445	415	350	350	280	210	185	165
		psi		*	6522	*	6453	6018	5075	5075	4060	3045	2683	2393
2023 4SH	4 or 6 spiral wire	bar		*	*	*	*	*	*	420	380	325	290	250
		psi		*	*	*	*	*	*	6090	5510	4713	4205	3625

* No DIN specification in this size

Recommended Caterpillar Hose Replacements for DIN Specification Hoses

DIN SPECIFICATION	HOSE CONSTRUCTION	DN Dash	CATERPILLAR HOSE REPLACEMENTS for the indicated DN size/dash size										
			5 -3	6 -4	8 -5	10 -6	12 -8	16 -10	20 -12	25 -16	32 -20	40 -24	50 -32
2021 1TE	1 fiber braid		1028	716	294	716	716	716	*	*	*	*	*
2021 2TE	2 fiber braid		1028	716	294	716	716	716	716	716	*	*	*
2021 3TE	2 fiber braid		1028	716	294	716	716	716	716	716	716	XT-3	XT-3
2022 1ST, 1SN	1 wire braid		**	716	294	716	716	716	716	716	716	716	716
2022 2ST, 2SN	2 wire braid		**	294	294	294	294	294	294	294	294	294	294
2023 4SP	4 spiral wire		*	**	*	1956	1956	1956	1956	1956	1956	1956	1956
2023 4SH	4 or 6 spiral wire		*	*	*	*	*	*	XT-6	XT-6	XT-5	XT-5	XT-5

* No DIN specification in this size

** No Caterpillar replacement hose available

JIS Comparison

JIS K6349 Specifications: Hose Construction

HOSE CLASS	MAXIMUM WORKING PRESSURE	NOM Dash	HOSE CONSTRUCTION for the indicated hose classes										
			-3	6 -4	-5	9 -6	12 -8	15 -10	19 -12	25 -16	32 -20	38 -24	50 -32
35	35 kg/cm ² 500 psi		*	1 fb	*	1 fb	1 fb	*	1 fb	1 fb	1 wb	1 wb	1 wb
70	70 kg/cm ² 1000 psi		*	1 wb	*	1 wb	1 wb	1 wb	1 wb	1 wb	2 wb	2 wb	2 wb
105	105 kg/cm ² 1500 psi		*	1 wb	*	1 wb	1 wb	1 wb	1 wb	2 wb	2 wb	1 wb 2 sw	1 wb 2 sw
140	140 kg/cm ² 2000 psi		*	1 wb	*	1 wb	1 wb	2 wb	2 wb	2 wb	1 wb 2 sw	1 wb 2 sw	4 sw
175	175 kg/cm ² 2500 psi		*	1 wb	*	2 wb	2 wb	2 wb	2 wb	2 or 3 wb	*	*	*
210	210 kg/cm ² 3000 psi		*	1 wb	*	2 wb	2 wb	2 or 3 wb	3 wb	3 wb	4 sw	4 sw	6 sw
250	250 kg/cm ² 3500 psi		*	2 wb	*	2 wb	2 or 3 wb	3 wb	3 wb	4 sw	6 sw	6 sw	6 sw
280	280 kg/cm ² 4000 psi		*	2 wb	*	3 wb	3 wb	4 sw	4 sw	4 sw	6 sw	6 sw	6 sw
320	320 kg/cm ² 4500 psi		*	*	*	*	4 sw	4 sw	4 sw	6 sw	6 sw	6 sw	6 sw
350	350 kg/cm ² 5000 psi		*	2 wb	*	4 sw	4 sw	4 sw	4 sw	6 sw	6 sw	6 sw	6 sw

* No JIS specification this size

Construction nomenclature: number = layers of reinforcement, f = fiber, w = wire, b = braid, s = spiral
Example: 1 wb hose has 1 layer of wire braided reinforcement

Recommended Caterpillar Hose Replacements for JIS Specification Hoses

HOSE CLASS	MAXIMUM WORKING PRESSURE	NOM Dash	CATERPILLAR HOSE REPLACEMENTS for the indicated nominal size/dash size										
			-3	6 -4	-5	9 -6	12 -8	15 -10	19 -12	25 -16	32 -20	38 -24	50 -32
35	35 kg/cm ² 500 psi		*	716	*	716	716	*	716	716	716	716	294
70	70 kg/cm ² 1000 psi		*	716	*	716	716	716	716	716	294	294	294
105	105 kg/cm ² 1500 psi		*	716	*	716	716	716	294	294	294	XT-3	XT-3
140	140 kg/cm ² 2000 psi		*	716	*	716	716	294	294	294	294	XT-3	XT-3
175	175 kg/cm ² 2500 psi		*	716	*	294	294	294	294	294	*	*	*
210	210 kg/cm ² 3000 psi		*	294	*	294	294	294	294	XT-3	XT-3	XT-5	XT-5
250	250 kg/cm ² 3500 psi		*	294	*	294	294	294	XT-3	XT-3	XT-5	XT-5	XT-5
280	280 kg/cm ² 4000 psi		*	294	*	294	294	XT-3	XT-3	XT-3	XT-5	XT-5	XT-5
320	320 kg/cm ² 4500 psi		*	*	*	*	XT-6	1956	XT-5	XT-5	XT-5	XT-5	XT-5
350	350 kg/cm ² 5000 psi		*	294	*	XT-6	XT-6	1956	XT-5	XT-5	XT-5	XT-5	XT-5

* No JIS specification this size

Working Pressure

Caterpillar Hydraulic Hose Specifications: Maximum Working Pressure (psi, bars, kg/cm²)

CATERPILLAR HOSE	HOSE CONSTRUCTION	UNITS	MAXIMUM WORKING PRESSURE (psi, bar, kg/cm ²) for the indicated dash size/DN size/nominal size											
			Dash DN Nom	-3 5	-4 6	-5 8	-6 10 9	-8 12 12	-10 16 15	-12 20 19	-16 25 25	-20 32 32	-24 40 38	-32 50 50
294	2 wire braid	psi	*	5000	4250	4000	3500	2750	2250	2000	1625	1250	1125	
		bar	*	345	293	276	241	190	155	138	112	86	78	
		kg/cm ²	*	350	298	280	245	193	158	140	114	88	79	
716	1 wire braid	psi	*	2750	*	2250	2000	1500	1250	1000	625	500	375	
		bar	*	190	*	155	138	103	86	69	43	34	26	
		kg/cm ²	*	193	*	158	141	105	88	70	44	35	26	
844	Helical wire (Hydraulic suction)	psi	*	*	*	*	*	*	300	250	200	150	100	
		bar	*	*	*	*	*	*	21	17	14	10	7	
		kg/cm ²	*	*	*	*	*	*	21	18	14	11	7	
XT-3	4 spiral wire	psi	*	*	*	4000	4000	4000	4000	4000	3000	2500	2500	
		bar	*	*	*	276	276	276	276	276	207	172	172	
		kg/cm ²	*	*	*	281	281	281	281	281	211	176	176	
1956	4 spiral wire	psi	*	*	*	6453	6018	5075	5075	4060	3045	2683	2393	
		bar	*	*	*	445	415	350	350	280	210	185	165	
		kg/cm ²	*	*	*	454	424	357	357	286	214	189	169	
XT-5	4 or 6 spiral wire	psi	*	*	*	*	*	*	5000	5000	5000	5000	5000	
		bar	*	*	*	*	*	*	345	345	345	345	345	
		kg/cm ²	*	*	*	*	*	*	352	352	352	352	352	
XT-6	6 spiral wire	psi	*	*	*	6000	*	*	6000	6000	6000	*	*	
		bar	*	*	*	414	*	*	414	414	414	*	*	
		kg/cm ²	*	*	*	422	*	*	422	422	422	*	*	

* No Caterpillar hose available in this size

Caterpillar Special Application Hose Specifications: Maximum Working Pressure (psi, bars, kg/cm²)

CATERPILLAR HOSE	HOSE CONSTRUCTION	UNITS	MAXIMUM WORKING PRESSURE (psi, bar, kg/cm ²) for the indicated dash size										
			-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
556	1 wire braid fabric covered	psi	*	3000	3000	2250	2000	1750	1500	800	625	500	*
		bar	*	207	207	155	138	121	103	55	43	34	*
		kg/cm ²	*	211	211	158	141	123	105	56	44	35	*
1130	1 wire braid fabric covered engine/air brake	psi	*	2000	1500	1500	1250	1000	750	400	300	250	*
		bar	*	138	103	103	86	69	52	28	21	17	*
		kg/cm ²	*	141	105	105	88	70	53	28	21	18	*
1543	Thermoplastic, fiber braid air conditioning	psi	*	*	*	500	500	*	500	*	*	*	*
		bar	*	*	*	34	34	*	34	*	*	*	*
		kg/cm ²	*	*	*	35	35	*	35	*	*	*	*
1028	Thermoplastic, fiber braid	psi	3000	2750	2500	2250	2000	*	1250	*	*	*	*
		bar	207	190	172	155	138	*	86	*	*	*	*
		kg/cm ²	211	193	176	158	141	*	88	*	*	*	*
2760	fiber braid, wire braid	psi	*	1500	1500	1500	1500	*	*	*	*	*	*
		bar	*	103	103	103	103	*	*	*	*	*	*
		kg/cm ²	*	105	105	105	105	*	*	*	*	*	*

* No Caterpillar hose available in this size

Fluid Compatability

- A Acceptable
- C Conditional - Under some conditions of temperature and pressure, hose life will be adversely affected. For guidance, consult your Caterpillar dealer hose specialist.
- X Unacceptable
- Testing Recommended

AGENT TO BE CARRIED	HOSE TYPE				AGENT TO BE CARRIED	HOSE TYPE				AGENT TO BE CARRIED	HOSE TYPE			
	1956	294	1028	1130		1956	294	1028	1130		1956	294	1028	1130
	XT-3	556				XT-3	556				XT-3	556		
	XT-5	716	2760		XT-5	716	2760		XT-5	716	2760			
Acetate Acid, Dilute (10%)	X	X	C	A	Brine	X	X	X	X	Ethyl Alcohol	C	A	C	C
Acetic Acid, Glacial	X	—	—	—	Bromine	X	X	—	X	Ethyl Cellulose	X	C	X	X
Acetone	C	X	A	A	Butyl Acetate	X	X	—	—	Ethyl Chloride	C	X	—	X
Acetylene	C	X	—	—	Butyl Alcohol, Butanol	C	A	C	C	Ethylene Dichloride	X	X	X	X
Air	—	A	A	A	Calcium Bisulfite	X	X	X	X	Ethylene Glycol 2150	A	A	A	A
Aluminum Chloride	C	A	A	A	Calcium Chloride	C	A	C	C	Ferric Chloride	X	A	X	X
Aluminum Flouride 20%	C	A	—	—	Calcium Hydroxide	A	A	—	A	Ferric Sulfate	X	A	X	X
Aluminum Sulfate	C	A	—	A	Calcium Hypochlorite	X	X	X	X	Ferrous Salt Solutions	X	—	—	—
Alums	C	A	—	A	Caliche Liquors	A	—	—	A	Formaldehyde	X	X	X	X
Ammonia Gas, Cold	C	—	—	—	Cane Sugar Liquors	—	—	—	A	Formic Acid	X	X	X	X
Ammonia, Liquid (Anhydrous)	X	X	X	X	Carbolic Acid Phenol	X	—	X	X	Freon (see Refrigerant)				
Ammonia, Aqueous	A	—	—	—	Carbon Dioxide	A	A	A	A	Fuel Oil	C	A	A	C
Ammonia, Chloride	X	X	X	X	Carbon Disulfide	X	X	C	C	Furfural	C	X	—	C
Ammonium Hydroxide	C	C	—	C	Carbon Monoxide (Hot)	C	A	C	C	Gasoline	X	C	A	C
Ammonium Nitrate	C	A	—	C	Carbon Tetrachloride	X	X	X	C	Gelatine	A	A	—	—
Ammonium Phosphate	X	A	X	X	Carbonic Acid	X	—	X	X	Glucose	A	A	—	—
Ammonium Sulfate	C	A	—	C	Castor Oil	—	A	A	A	Glue	A	C	C	—
Amyl Acetate	X	X	X	X	Cellosolve Acetate	X	X	X	X	Glycerine, Glycerol	A	A	A	A
Amyl Alcohol	X	—	X	X	China Wood Oil (Tung)	A	—	—	—	Grease, Petroleum	C	A	A	A
Aniline, Aniline Oil	X	X	X	C	Chlorinated Solvents	X	X	X	X	Green Sulfate Liquor	X	X	X	X
Aniline Dyes	X	X	X	X	Chlorine (Dry)	C	X	X	X	Heptane	A	—	—	A
Animal Fats	—	C	C	C	Chlorine (Wet)	X	X	—	—	Hexane	A	—	A	A
Asphalt up to 180° F	X	X	X	X	Chloracetic Acid	X	X	X	X	Hydraulic Fluids and Lubricating Oils				
Barium Chloride	C	A	—	C	Chloroform	X	X	X	X	Straight Petroleum Base	A	A	A	A
Barium Hydroxide	C	A	—	C	Chlorosulphonic Acid	X	X	—	X	Water and Petroleum				
Barium Sulfide	X	X	X	X	Chromic Acid 30%	X	X	X	X	Emulsion (FR)	C	A	A	A
Beer	X	X	X	X	Citric Acid 10%	X	—	X	X	Water and Glycol Solution*	A	A	A	A
Beet Sugar Liquors	—	C	—	—	Coke Oven Gas	C	C	—	A	Straight Phosphate				
Benzene, Benzol	X	X	C	A	Copper Chloride	X	A	X	X	— Ester (FR)	X	X	—	A
Benzine (Petroleum Ether)	—	X	—	A	Copper Sulfate	X	A	X	X	Phosphate — Ester and Petroleum Oil				
Benzine (Petroleum Naphtha)	—	X	—	A	Corn Oil	A	—	—	—	Blend (FR)	—	X	C	A
Black Sulfate Liquor	—	C	—	C	Cottonseed Oil	A	C	—	C	Ester Blend				
Borax	C	C	—	C	Creosote	X	X	X	X	(MIL-L-7808)	X	X	—	A
Boric Acid	X	A	X	X	Crude Oil	X	X	X	X	Silicone Oils	A	—	—	—
Brake Fluid	C	X	—	X	Diesel Oil Light	C	A	A	A	Hydrobromic Acid	X	X	—	
					Dowtherm A and E	—	X	—	C	Hydrochloric Acid	X	X	X	
					Ethers	X	C	C	A	Hydrocyanic Acid	C	X	—	—
					Ethyl Acetate	X	X	—	C	Hydrofluoric Acid, Hot	X	X	X	X
										Hydrogluosilic Acid	X	X	X	X

(cont.)

CAUTION: This chart is meant to offer general guidelines for the use of Cat Hose and Couplings with the substances listed in the chart. Many factors, such as temperature, concentration and length of exposure, are relevant to individual situations. The chart is based on the compatibility of these substances with the couplings and the inner liner of the hose. There may be instances where the outer cover could be adversely affected by substances which would not chemically affect the inner liner. Conversely, some substances which adversely affect the inner liner of Cat Hose may not have a deteriorating effect on the outer cover.

*TO 85° C.

Fluid Compatability

- A Acceptable
- C Conditional - Under some conditions of temperature and pressure, hose life will be adversely affected. For guidance, consult your Caterpillar dealer hose specialist.
- X Unacceptable
- Testing Recommended

AGENT TO BE CARRIED	HOSE TYPE				AGENT TO BE CARRIED	HOSE TYPE				AGENT TO BE CARRIED	HOSE TYPE			
	1956 XT-3	294 556 716	294 556 2760	1130		1956 XT-3	294 556 716	294 556 2760	1130		1956 XT-3	294 556 716	294 556 2760	1130
Hydrogen	C	C	A	X	Oleic Acid	X	C	X	X	Sodium Sulfate	—	A	—	A
Hydrogen Peroxide (Dilute)	X	X	—	A	Oleum Spirits	X	X	X	X	Sodium Thiosulfate "Hypo"	X	X	X	X
Hydrogen Peroxide (Concentrated)	X	X	X	X	Oxalic Acid	C	C	—	C	Soybean Oil	A	A	—	A
Hydrogen Sulfide	X	X	X	X	Oxygen	X	X	X	X	Stannic Chloride	X	X	X	X
Isooctane	—	—	A	C	Ozone	—	X	C	A	Steam —up to 250° F	X	X	X	X
Isopropyl Alcohol	—	C	A	A	Paint	—	X	A	X	Stearic Acid	C	C	—	C
Kerosene	C	—	A	A	Palmitic Acid	X	X	X	X	Sulfur	A	—	A	—
Lacquer	X	X	X	X	Perchlorethylene	X	X	X	C	Sulfur Chloride	C	C	—	C
Lacquer Solvents	X	X	X		Petroleum Oils (see Hydraulic Fluids)	A	A	A	A	Sulfur Dioxide	X	X	X	X
Lactic Acid	X	X	X	X	Phosphoric Acid (Commercial)	X	X	X	X	Sulfur Trioxide	X	X	X	X
Linseed Oil	A	A	A	A	Picric Acid, Molten	X	X	—	X	Sulfuric Acid — 10% Cold	X	—	—	—
LPG	—	C	C	X	Picric Acid, Solution	C	X	—	X	Sulfuric Acid — 10% Hot	X	—	—	—
Lubricating Oils (see Hydraulic Fluids)					Potassium Chloride	X	A	X	X	Sulfuric Acid — 75% Cold	X	—	—	—
Magnesium Chloride	X	A	X	X	Potassium Cyanide	A	A	—	A	Sulfuric Acid — 75% Hot	X	—	—	—
Magnesium Hydroxide	C	C	—	C	Potassium Hydroxide	X	C	—	C	Sulfuric Acid — 95% Cold	X	—	X	X
Magnesium Sulfate	A	A	—	A	Potassium Sulfate	A	A	—	A	Sulfuric Acid — 95% Hot	X	—	—	—
Mercuric Chloride	C	—	—	—	Refrigerant **					Sulfuric Acid — Fuming	X	—	—	X
Mercury	A	A	A	A	Freon 12	C	A	X	X	Tannic Acid	X	C	X	X
Methane	—	C	C	A	Freon13	—	—	—	—	Tar	X	X	X	X
Methyl Alcohol, Methanol	C	A	C	C	Freon 22	—	X	X	X	Tartaric Acid	X	X	X	X
Methyl Chloride, Cold	X	X	X	C	Sea Water	—	C	X	X	Toluene	X	X	C	C
Methyl Methyl Ketone	—	X	C	C	Sewage	—	—	—	C	Trichlorethylene	X	X	X	X
Methyl Isopropyl — Ketone	—	X	A	X	Soap Solution	—	A	A	A	Turpentine	X	X	A	C
Mineral Oil	—	A	A	A	Soda Ash, Sodium Carbonate	—	A	C	A	Varnish	—	X	C	C
Naphtha	C	—	A	A	Sodium Bisulfate	X	A	X	X	Vinegar	—	X	C	A
Naphthalene	X	X	A	A	Sodium Chloride	X	X	X	X	Water	C	C	C	C
Natural Gas	A	A	C	—	Sodium Cyanide	—	—	—	A	Water (over +150° F)	A	C	X	—
Nickel Chloride	X	X	X	X	Sodium Hydroxide 50%	X	X	—	A	Whiskey	—	A	A	—
Nickel Sulfate	X	X	X	X	Sodium Hypochlorite	X	X	X	X	Wine	—	—	—	—
Nitric Acid, Crude	X	X	—	X	Sodium Nitrate	—	C	—	A	Xylene	—	X	C	X
Nitric Acid 10%	X	X	—	X	Sodium Perborate	X	X	X	X	Zinc Chloride	C	C	C	X
Nitric Acid 70%	X	X	X	X	Sodium Peroxide	X	X	X	X	Zinc Sulfate	C	C	—	X
Nitrobenzene	X	X	X	X	Sodium Phosphates	X	X	X	X					
					Sodium Silicate	—	A	—	A					

** Cat 1543 Air Conditioning Hose is Acceptable with Freon-12 and Freon-R134A

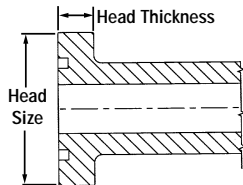
CAUTION: This chart is meant to offer general guidelines for the use of Cat Hose and Couplings with the substances listed in the chart. Many factors, such as temperature, concentration and length of exposure, are relevant to individual situations. The chart is based on the compatibility of these substances with the couplings and the inner liner of the hose. There may be instances where the outer cover could be adversely affected by substances which would not chemically affect the inner liner. Conversely, some substances which adversely affect the inner liner of Cat Hose may not have a deteriorating effect on the outer cover.

Coupling Identification

Thread Guide

THREAD DASH SIZE	NPTF ⁽¹⁾ THREAD SIZE (in-TPI)	JIC 37° THREAD SIZE (in-TPI)	SAE 45° THREAD SIZE (in-TPI)	ORFS ⁽²⁾ THREAD SIZE (in-TPI)	STOR ⁽³⁾ THREAD SIZE (in-TPI)	NPSM ⁽⁴⁾ THREAD SIZE (in-TPI)	SAE INV. ⁽⁵⁾ THREAD SIZE (in-TPI)	BSP ⁽⁶⁾ THREAD SIZE (in-TPI)	GAZ ⁽⁷⁾ THREAD SIZE (dia x pitch)
-2	1/8 - 27	5/16 - 24	5/16 - 24	--	5/16 - 24	1/8 - 27	5/16 - 28	1/8 - 28	--
-3	--	3/8 - 24	3/8 - 24	--	3/8 - 24	--	3/8 - 24	--	--
-4	1/4 - 18	7/16 - 20	7/16 - 20	9/16 - 18	7/16 - 20	1/4 - 18	7/16 - 24	1/4 - 19	--
-5	--	1/2 - 20	1/2 - 20	--	1/2 - 20	--	1/2 - 20	--	--
-6	3/8 - 18	9/16 - 18	5/8 - 18	11/16 - 16	9/16 - 18	3/8 - 18	5/8 - 18	3/8 - 19	M20 x 1.5
-8	1/2 - 14	3/4 - 16	3/4 - 16	13/16 - 16	3/4 - 16	1/2 - 14	3/4 - 18	1/2 - 14	M24 x 1.5
-10	--	7/8 - 14	7/8 - 14	1 - 14	7/8 - 14	--	7/8 - 18	5/8 - 14	M30 x 1.5
-12	3/4 - 14	11/16 - 12	11/16 - 14	13/16 - 12	11/16 - 12	3/4 - 14	11/16 - 16	3/4 - 14	M36 x 1.5
-14	--	13/16 - 12	11/4 - 12	--	13/16 - 12	--	--	--	--
-16	1 - 11 1/2	15/16 - 12	13/8 - 12	17/16 - 12	15/16 - 12	1 - 11 1/2	--	1 - 11	M45 x 1.5
-20	1 1/4 - 11 1/2	15/8 - 12	--	1 11/16 - 12	15/8 - 12	1 1/4 - 11 1/2	--	1 1/4 - 11	M52 x 1.5
-24	1 1/2 - 11 1/2	17/8 - 12	--	2 - 12	17/8 - 12	1 1/2 - 11 1/2	--	1 1/2 - 11	--
-32	2 - 11 1/2	2 1/2 - 12	--	--	2 1/2 - 12	2 - 11 1/2	--	2 - 11	--

- (1) NPTF - NATIONAL PIPE TAPERED FUEL (REF. SAE J476)
 (2) ORFS - O-RING FACE SEAL (REF. SAE J1453)
 (3) STOR - SAE STRAIGHT THREAD O-RING (REF. SAE J514)
 (4) NPSM - NATIONAL PIPE STRAIGHT MECHANICAL
 (5) SAE INV. - SAE INVERTED FLARE (REF. SAE J512)
 (6) BSP - BRITISH STANDARD PIPE
 (7) GAZ - FRENCH METRIC GAZ



Flange Head Guide

FLANGE DASH SIZE	SAE CODE 61*				SAE CODE 62**				Caterpillar			
	HEAD SIZE (in)	HEAD SIZE (mm)	HEAD THKNS (in)	HEAD THKNS (mm)	HEAD SIZE (in)	HEAD SIZE (mm)	HEAD THKNS (in)	HEAD THKNS (mm)	HEAD SIZE (in)	HEAD SIZE (mm)	HEAD THKNS (in)	HEAD THKNS (mm)
-8	1.19	30.2	.265	6.7	1.25	31.8	.305	7.8	--	--	--	--
-12	1.50	38.1	.265	6.7	1.63	41.3	.345	8.8	1.63	41.3	.560	14.2
-16	1.75	44.5	.315	8.0	1.88	47.6	.375	9.5	1.88	47.6	.560	14.2
-20	2.00	50.8	.315	8.0	2.13	54.0	.405	10.3	2.13	54.0	.560	14.2
-24	2.38	60.3	.315	8.0	2.50	63.5	.495	12.6	2.50	63.5	.560	14.2
-32	2.81	71.4	.375	9.5	3.13	79.4	.495	12.6	3.13	79.4	.560	14.2
-40	3.31	84.1	.375	9.5	--	--	--	--	--	--	--	--

* All CODE 61 flange head hose couplings and adapter fittings meet or exceed SAE J518 CODE 61 requirements for hydraulic split flange connections. The CODE 61 flange head design can withstand a maximum operating pressure of 3000 to 5000 psi depending on size.

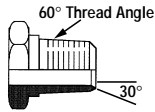
** All couplings having Caterpillar flange heads meet or exceed the performance requirements of SAE J518 CODE 62 specifications for hydraulic split flange connections. The thickness of Caterpillar flange heads is greater than CODE 62 so that special split flanges are required for proper installation. The CODE 62 flange head design can withstand a maximum operating pressure of 6000 psi regardless of size.

Note 1: Reference charts on [pages 165-170](#) for split flange part numbers.

Note 2: SAE CODE 61, DIN Form R, and JIS Type I couplings are interchangeable except for bolt sizes.

Note 3: SAE CODE 62, DIN for S, and JIS Type II couplings are interchangeable except for bolt sizes

Coupling Identification



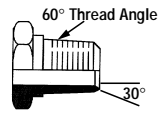
NPTF Male



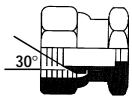
NPTF Port

Thread Identification Table National Pipe Tapered for Fuels (NPTF)

DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD (in)
-2	1/8	1/8 - 27	8.7	0.34	10.3	0.41
-4	1/4	1/4 - 18	11.9	0.47	14.3	0.56
-6	3/8	3/8 - 18	15.1	0.59	17.5	0.69
-8	1/2	1/2 - 14	18.3	0.72	21.4	0.84
-12	3/4	3/4 - 14	23.8	0.94	27.0	1.06
-16	1	1 - 11 1/2	30.2	1.19	33.3	1.31
-20	1 1/4	1 1/4 - 11 1/2	38.9	1.53	42.9	1.69
-24	1 1/2	1 1/2 - 11 1/2	44.5	1.75	48.4	1.91
-32	2	2 - 11 1/2	57.2	2.25	60.3	2.38



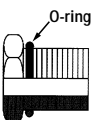
NPTF Male



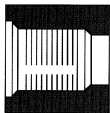
NPSM Female

Thread Identification Table National Pipe Straight Mechanical (NPSM)

DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD (in)
-2	1/8	1/8 - 27	8.7	0.34	10.3	0.41
-4	1/4	1/4 - 18	11.9	0.47	14.3	0.56
-6	3/8	3/8 - 18	15.9	0.63	17.5	0.69
-8	1/2	1/2 - 14	19.1	0.75	21.4	0.84
-12	3/4	3/4 - 14	24.6	0.97	27.0	1.06
-16	1	1 - 11 1/2	31.0	1.22	33.3	1.31
-20	1 1/4	1 1/4 - 11 1/2	39.7	1.56	42.9	1.69
-24	1 1/2	1 1/2 - 11 1/2	45.2	1.78	48.4	1.91
-32	2	2 - 11 1/2	57.2	2.25	60.3	2.38



SAE Straight Thread O-ring Boss Male

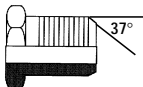


SAE Straight Thread O-ring Port

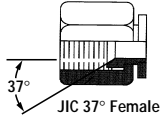
Thread Identification Table SAE Straight Thread O-Ring Boss

DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD (in)
-2	1/8	5/16 - 24	6.9	0.27	7.8	0.31
-3	3/16	3/8 - 24	8.5	0.34	9.4	0.37
-4	1/4	7/16 - 20	9.9	0.39	11.2	0.44
-5	5/16	1/2 - 20	11.5	0.45	12.6	0.49
-6	3/8	9/16 - 18	12.9	0.51	14.1	0.56
-8	1/2	3/4 - 16	17.5	0.69	18.9	0.74
-10	5/8	7/8 - 14	20.5	0.81	22.1	0.87
-12	3/4	1 1/16 - 12	24.9	0.98	26.9	1.06
-14	7/8	1 3/16 - 12	28.1	1.11	30.0	1.18
-16	1	1 5/16 - 12	31.3	1.23	33.1	1.31
-20	1 1/4	1 5/8 - 12	39.2	1.54	41.1	1.62
-24	1 1/2	1 7/8 - 12	45.6	1.79	47.4	1.87
-32	2	2 1/2 - 12	61.4	2.42	63.3	2.49

Coupling Identification



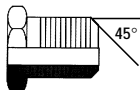
JIC 37° Male



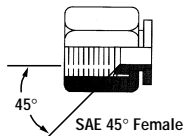
JIC 37° Female

Thread Identification Table JIC 37° Flare

DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD INSIDE DIAMETER (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD OUTSIDE DIAMETER (in)
-2	1/8	5/16 - 24	6.9	0.27	7.8	0.31
-3	3/16	3/8 - 24	8.5	0.34	9.4	0.37
-4	1/4	7/16 - 20	9.9	0.39	11.2	0.44
-5	5/16	1/2 - 20	11.5	0.45	12.6	0.49
-6	3/8	9/16 - 18	12.9	0.51	14.1	0.56
-8	1/2	3/4 - 16	17.5	0.69	18.9	0.74
-10	5/8	7/8 - 14	20.5	0.81	22.1	0.87
-12	3/4	1 1/16 - 12	24.9	0.98	26.9	1.06
-14	7/8	1 3/16 - 12	28.1	1.11	30.0	1.18
-16	1	1 5/16 - 12	31.3	1.23	33.1	1.31
-20	1 1/4	1 5/8 - 12	39.2	1.54	41.1	1.62
-24	1 1/2	1 7/8 - 12	45.6	1.79	47.4	1.87
-32	2	2 1/2 - 12	61.4	2.42	63.3	2.49



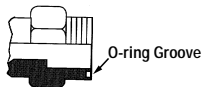
SAE 45° Male



SAE 45° Female

Thread Identification Table SAE 45° Flare

DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD INSIDE DIAMETER (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD OUTSIDE DIAMETER (in)
-2	1/8	5/16 - 24	6.9	0.27	7.9	0.31
-3	3/16	3/8 - 24	8.6	0.34	9.6	0.38
-4	1/4	7/16 - 20	9.9	0.39	11.2	0.44
-5	5/16	1/2 - 20	11.4	0.45	12.7	0.50
-6	3/8	5/8 - 18	14.2	0.56	15.7	0.62
-7	7/16	1 1/16 - 16	15.7	0.62	17.3	0.68
-8	1/2	3/4 - 16	17.0	0.68	19.0	0.75
-10	5/8	7/8 - 14	20.3	0.80	22.3	0.88
-12	3/4	1 1/16 - 14	25.1	0.99	26.9	1.06
-14	7/8	1 1/4 - 12	29.5	1.16	31.7	1.25
-16	1	1 3/8 - 12	32.5	1.28	35.0	1.38



O-ring Face Seal Male

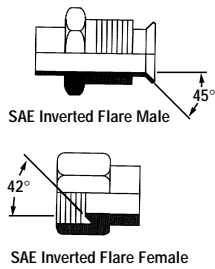


O-ring Face Seal Female

Thread Identification Table SAE O-Ring Face Seal (ORFS)

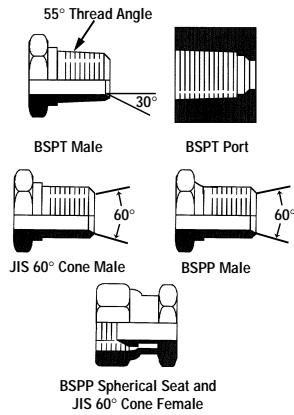
DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD INSIDE DIAMETER (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD OUTSIDE DIAMETER (in)
-4	1/4	9/16 - 18	12.9	0.51	14.1	0.56
-6	3/8	1 1/16 - 16	15.9	0.63	17.3	0.68
-8	1/2	1 3/16 - 16	19.1	0.75	20.5	0.81
-10	5/8	1 - 14	23.6	0.93	25.2	0.99
-12	3/4	1 3/16 - 12	28.1	1.11	30.0	1.18
-16	1	1 7/16 - 12	34.4	1.36	36.3	1.43
-20	1 1/4	1 11/16 - 12	40.8	1.61	42.7	1.68
-24	1 1/2	2 - 12	48.7	1.92	50.6	1.99

Coupling Identification



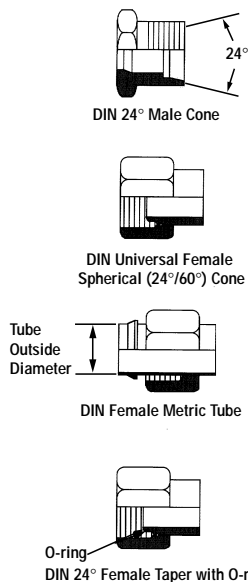
Thread Identification Table SAE Inverted 45° Flare

DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD INSIDE DIAMETER (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD OUTSIDE DIAMETER (in)
-2	1/8	5/16 - 28	6.9	0.27	7.9	0.31
-3	3/16	3/8 - 24	8.6	0.34	9.6	0.38
-4	1/4	7/16 - 24	9.9	0.39	11.2	0.44
-5	5/16	1/2 - 20	11.4	0.45	12.7	0.50
-6	3/8	5/8 - 18	14.2	0.56	15.7	0.62
-7	7/16	1 1/16 - 18	15.7	0.62	17.3	0.68
-8	1/2	3/4 - 18	17.0	0.68	19.0	0.75
-10	5/8	7/8 - 18	20.3	0.80	22.3	0.88
-12	3/4	1 1/16 - 16	25.1	0.99	26.9	1.06



Thread Identification Table British Standard Pipe Tapered (BSPT), British Standard Pipe Parallel Spherical Seat (BSPP) and JIS 60° Cone

DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD INSIDE DIAMETER (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD OUTSIDE DIAMETER (in)
-2	1/8	1/8 - 28	8.7	0.34	9.5	0.38
-4	1/4	1/4 - 19	11.1	0.44	13.5	0.53
-6	3/8	3/8 - 19	15.1	0.59	16.7	0.66
-8	1/2	1/2 - 14	18.3	0.72	20.6	0.81
-10	5/8	5/8 - 14	20.6	0.81	23.0	0.91
-12	3/4	3/4 - 14	23.8	0.94	26.2	1.03
-16	1	1 - 11	30.2	1.19	33.3	1.31
-20	1 1/4	1 1/4 - 11	38.9	1.53	42.1	1.66
-24	1 1/2	1 1/2 - 11	45.2	1.78	47.6	1.88
-32	2	2 - 11	56.4	2.22	59.5	2.34

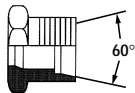


Thread Identification Table DIN 24° Cone

METRIC THREAD (dia x pitch)	FEMALE THREAD INSIDE DIAMETER (mm)	FEMALE THREAD INSIDE DIAMETER (in)	MALE THREAD OUTSIDE DIAMETER (mm)	MALE THREAD OUTSIDE DIAMETER (in)	TUBE OUTSIDE DIAMETER			
					LIGHT SERIES (mm)	LIGHT SERIES (in)	HEAVY SERIES (mm)	HEAVY SERIES (in)
M12 x 1.5	10.5	0.41	12	0.47	6	0.24	*	*
M14 x 1.5	12.5	0.49	14	0.55	8	0.31	6	0.24
M16 x 1.5	14.5	0.57	16	0.63	10	0.39	8	0.31
M18 x 1.5	16.5	0.65	18	0.71	12	0.47	10	0.39
M20 x 1.5	18.5	0.73	20	0.79	*	*	12	0.47
M22 x 1.5	20.5	0.81	22	0.87	15	0.59	14	0.55
M24 x 1.5	22.5	0.89	24	0.94	*	*	16	0.63
M26 x 1.5	24.5	0.96	26	1.02	18	0.71	*	*
M30 x 2.0	27.9	1.10	30	1.18	22	0.87	20	0.79
M36 x 2.0	33.9	1.33	36	1.42	28	1.10	25	0.98
M42 x 2.0	39.9	1.57	42	1.65	*	*	30	1.18
M45 x 2.0	42.9	1.69	45	1.77	35	1.38	*	*
M52 x 2.0	49.9	1.96	52	2.05	42	1.65	38	1.50

*No DIN 24° Cone in this size

Coupling Identification



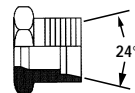
DIN 60° Male Cone



DIN Universale Female Spherical (24°/60°) Seat

Thread Identification Table DIN 60° Cone

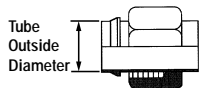
METRIC THREAD (dia x pitch)	FEMALE THREAD INSIDE DIAMETER		MALE THREAD OUTSIDE DIAMETER		TUBE OUTSIDE DIAMETER 60° CONE	
	(mm)	(in)	(mm)	(in)	(mm)	(in)
M12 x 1.5	10.5	0.41	12	0.47	6	0.24
M14 x 1.5	12.5	0.49	14	0.55	8	0.31
M16 x 1.5	14.5	0.57	16	0.63	10	0.39
M18 x 1.5	16.5	0.65	18	0.71	12	0.47
M22 x 1.5	20.5	0.81	22	0.87	15	0.59
M26 x 1.5	24.5	0.96	26	1.02	18	0.71
M30 x 1.5	28.5	1.12	30	1.18	22	0.87
M38 x 1.5	36.5	1.44	38	1.50	28	1.10
M45 x 1.5	43.5	1.71	45	1.77	35	1.38
M52 x 1.5	50.5	1.99	52	2.05	42	1.65



GAZ 24° Male



GAZ 24° Female

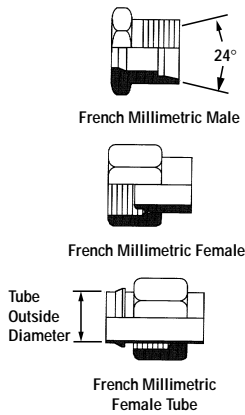


GAZ Female Tube

Thread Identification Table Gaz (gas series) 24° Cone

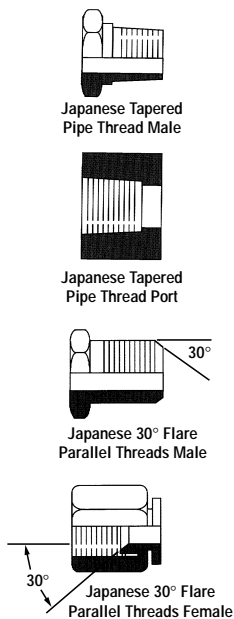
DASH SIZE (dash)	METRIC THREAD (dia x pitch)	FEMALE THREAD INSIDE DIAMETER		MALE THREAD OUTSIDE DIAMETER		TUBE OUTSIDE DIAMETER 24° CONE	
		(mm)	(in)	(mm)	(in)	(mm)	(in)
-6	M20 x 1.5	18.5	0.73	20.0	0.78	13.25	0.52
-8	M24 x 1.5	22.5	0.89	24.0	0.94	16.75	0.66
-10	M30 x 1.5	28.5	1.12	30.0	1.18	21.25	0.83
-12	M36 x 1.5	34.5	1.36	36.0	1.41	26.75	1.05
-16	M45 x 1.5	43.5	1.71	45.0	1.77	33.50	1.32
-20	M52 x 1.5	50.5	1.99	52.0	2.04	42.25	1.66

Coupling Identification



Thread Identification Table French Metric

METRIC THREAD (dia x pitch)	FEMALE THREAD INSIDE DIAMETER		MALE THREAD OUTSIDE DIAMETER		TUBE OUTSIDE DIAMETER	
	(mm)	(in)	(mm)	(in)	(mm)	(in)
M12 x 1.0	11.0	0.43	12.0	0.47	6	0.24
M14 x 1.5	12.5	0.49	14.0	0.55	8	0.31
M16 x 1.5	14.5	0.57	16.0	0.63	10	0.39
M18 x 1.5	16.5	0.65	18.0	0.71	12	0.47
M20 x 1.5	18.5	0.73	20.0	0.79	14	0.55
M22 x 1.5	20.5	0.81	22.0	0.87	15	0.59
M24 x 1.5	22.5	0.89	24.0	0.94	16	0.63
M27 x 1.5	25.5	1.00	27.0	1.06	18	0.71
M30 x 1.5	28.5	1.12	30.0	1.18	22	0.87
M33 x 1.5	31.5	1.24	33.0	1.30	25	0.98
M36 x 1.5	34.5	1.36	36.0	1.42	28	1.10
M39 x 1.5	37.5	1.48	39.0	1.54	30	1.18
M42 x 1.5	40.5	1.59	42.0	1.65	32	1.26
M45 x 1.5	43.5	1.71	45.0	1.77	35	1.38
M48 x 1.5	46.5	1.83	48.0	1.89	38	1.50
M52 x 1.5	50.5	1.99	52.0	2.05	40	1.57
M54 x 2.0	51.9	2.04	54.0	2.13	45	1.77



Thread Identification Table JIS Tapered Pipe, 30° Flare Parallel Pipe, and 30° Male Inverted Seat

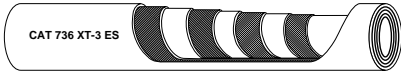
DASH SIZE (dash)	INCH SIZE (in)	THREAD SIZE (in-TPI)	FEMALE THREAD INSIDE DIAMETER		MALE THREAD OUTSIDE DIAMETER	
			(mm)	(in)	(mm)	(in)
-2	1/8	1/8 - 28	8.7	0.34	9.5	0.38
-4	1/4	1/4 - 19	11.9	0.47	13.5	0.53
-6	3/8	3/8 - 19	15.1	0.59	16.7	0.66
-8	1/2	1/2 - 14	19.1	0.75	20.6	0.81
-10	5/8	5/8 - 14	20.6	0.81	23.1	0.91
-12	3/4	3/4 - 14	23.8	0.94	26.2	1.03
-16	1	1 - 11	30.2	1.19	33.3	1.31
-20	1 1/4	1 1/4 - 11	38.9	1.53	42.1	1.66
-24	1 1/2	1 1/2 - 11	45.2	1.78	47.6	1.88
-32	2	2 - 11	56.4	2.22	59.5	2.34

XT-3 ES Hose and Couplings

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 = Product Addition

XT-3 ES Hose



XT-3 ES Hose (736)**

Exceeds the requirements of SAE 100R12.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
1650016	0.375	9.5	-6	0.80	20.2	16,000	112,000	4,000	28,000	2.50	64
1650017	0.500	12.7	-8	0.94	23.8	16,000	112,000	4,000	28,000	3.50	89
1650018	0.625	15.9	-10	1.08	27.4	16,000	112,000	4,000	28,000	4.00	102
1650020	0.750	19.1	-12	1.21	30.7	16,000	112,000	4,000	28,000	4.75	121
1650021	1.000	25.4	-16	1.50	38.1	16,000	112,000	4,000	28,000	6.00	153
1650023	1.250	31.8	-20	1.85	47.0	12,000	84,000	3,000	21,000	8.25	210
1650024	1.500	38.1	-24	2.11	53.5	10,000	70,000	2,500	17,500	10.00	254
1650025	2.000	50.8	-32	2.63	66.7	10,000	70,000	2,500	17,500	12.50	318

Construction: Fabric reinforced, synthetic rubber tube; four plies of spirally-wrapped high tensile steel wire reinforcement, separated by layers of synthetic rubber. Oil, weather, and abrasion resistant synthetic rubber outer cover.

Application: Very high pressure service with petroleum base hydraulic fluids. MSHA approved cover.

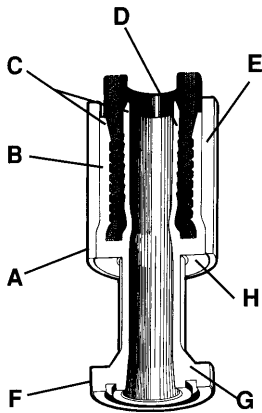
Temperature Range: -40° F to +250° F (-40° C to +121° C)

Couplings: Collet-type reusable, skive type - pages 27-39. Crimp-on permanent, skive type - pages 40-45. For related assembly equipment and tooling, see pages 277-310.

NOTE: Hose cover needs to be removed before attaching couplings.

* CENTERLINE OF HOSE

** SOLD BY THE INCH



XT-3 Hose Couplings Features and Benefits

EXCLUSIVE REUSABLE DESIGN

Reuse XT-3, XT-5, and XT-6 Hose Couplings over and over again for the lowest operating cost. In addition, you know you have the right coupling at the right time.

(A) Slim, Collet-Type Style

- No bolts or protrusions for easy installation, even in cramped places.

(B) Multi-land Fingers

- Grip the wires on the skived hose solidly to prevent coupling blow-off and provide better coupling retention.

(C) Tapered Fingers & Stem

- Compressive force is slightly relieved so the hose can flex without failure at the rear of the coupling. This increases hose assembly life.

(D) Multi-land Stem

- Keeps fluid sealed in without inner liner damage and provides a positive coupling to hose seal.

(E) Hardened Steel Sleeve

- No sleeve bend or distortion so the sleeve retains its original size and shape and can be reused.
- Hose stays firmly compressed in coupling, further aiding coupling retention.

(F) Precision Machined O-Ring Head

- To help eliminate hazardous fluid leaks and provide positive coupling head seal.

(G) Extruded Stem

- Orients metal grain for more uniform strength and fatigue resistance.
- Braze joint between head and stem is eliminated resulting in leak free performance and excellent coupling assembly life.

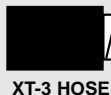
(H) Extruded Collet

- More uniform strength for excellent coupling performance after repeated reuse.

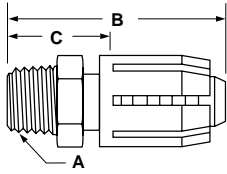
warning!

TO AVOID SERIOUS PERSONAL INJURY TO THE OPERATOR AND EXTENSIVE DAMAGE TO THE EQUIPMENT, THE FOLLOWING PROCEDURES MUST BE OBSERVED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

- ALWAYS match hose, stem assemblies and sleeves according to markings (Δ / + / UHP).
- NEVER interchange XT-3 hose, stem assemblies and sleeves marked with a triangle (Δ) with XT-5 hose, stem assemblies and sleeves marked with a plus (+) or XT-6 hose, stem assemblies and sleeves marked with UHP.

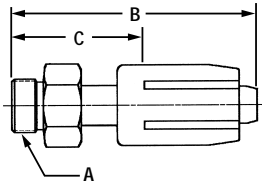


XT-3 Hose Reusable Couplings



Male NPTF Pipe

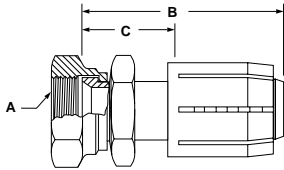
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
9S4123	0.375	9.5	-6	1/4 - 18	-4	3.39	86	1.73	44
2P0921	0.375	9.5	-6	3/8 - 18	-6	3.39	86	1.73	44
7S2369	0.500	12.7	-8	1/2 - 14	-8	3.74	95	2.09	53
6V4656	0.750	19.1	-12	3/4 - 14	-12	3.90	99	2.13	54
7S2371	1.000	25.4	-16	1 - 11 1/2	-16	4.41	112	2.44	62
2P0922	1.250	31.8	-20	1 1/4 - 11 1/2	-20	5.20	132	2.83	72
2P0923	1.500	38.1	-24	1 1/2 - 11 1/2	-24	5.51	140	2.91	74
2P0924	2.000	50.8	-32	2 - 11 1/2	-32	6.10	155	3.27	83



Straight Thread O-Ring Boss

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
8S7092	0.500	12.7	-8	3/4 - 16	-8	3.42	87	1.76	45	3K0360

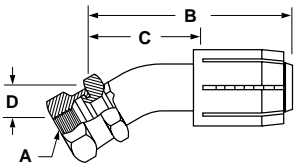
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



JIC 37° Female Swivel

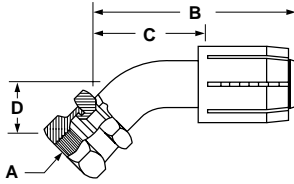
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
8S6417	0.375	9.5	-6	9/16 - 18	-6	3.27	83	1.61	41
2P0987	0.375	9.5	-6	3/4 - 16	-8	3.39	86	1.73	44
8S4055	0.500	12.7	-8	3/4 - 16	-8	3.39	86	1.73	44
2P3178	0.500	12.7	-8	3/4 - 16	-8	6.50	165	4.84	123
8S4064	0.500	12.7	-8	7/8 - 14	-10	3.39	86	1.73	44
9S0128	0.500	12.7	-8	1 1/16 - 12	-12	3.39	86	1.73	44
6V4657	0.750	19.1	-12	1 1/16 - 12	-12	3.58	91	1.89	48
6V4461	0.750	19.1	-12	1 1/16 - 12	-12	4.06	103	2.36	60
8S3918	1.000	25.4	-16	1 5/16 - 12	-16	4.02	102	2.64	67
2P0988	1.250	31.8	-20	1 5/8 - 12	-20	4.96	126	2.64	67
2P0991	1.500	38.1	-24	1 7/8 - 12	-24	5.24	133	2.64	67
2P0995	2.000	50.8	-32	2 1/2 - 12	-32	5.87	149	3.03	77

XT-3 Hose Reusable Couplings



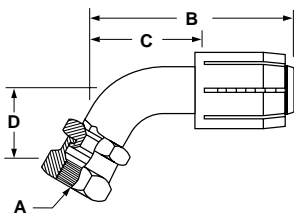
JIC 37° Female Swivel - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
6V3283	1.000	25.4	-16	1 ⁵ / ₁₆ - 12	-16	5.83	148	3.86	98	1.06	27



JIC 37° Female Swivel - 45° Elbow

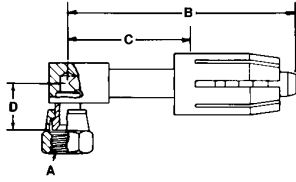
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1P9919	0.375	9.5	-6	9/ ₁₆ - 18	-6	3.98	101	2.32	59	1.10	28
2P1458	0.375	9.5	-6	3/ ₄ - 16	-8	4.13	105	2.44	62	1.10	28
9S9727	0.500	12.7	-8	3/ ₄ - 16	-8	4.02	102	2.32	59	1.14	29
2P1400	0.500	12.7	-8	7/ ₈ - 14	-10	4.02	102	2.32	59	1.14	29
6V4666	0.750	19.1	-12	1 ¹ / ₁₆ - 12	-12	4.45	113	2.68	68	1.26	32
2P1409	1.000	25.4	-16	1 ⁵ / ₁₆ - 12	-16	5.51	140	3.55	90	1.65	42
6V3502	1.000	25.4	-16	1 ⁵ / ₁₆ - 12	-16	8.15	207	6.18	157	3.35	85
✱ 1552834	1.250	31.8	-20	1 ⁵ / ₈ - 12	-20	6.99	178	4.64	118	1.69	43
✱ 1552835	1.500	38.1	-24	1 ⁷ / ₈ - 12	-24	7.91	201	5.31	135	1.73	44
✱ 1552836	2.000	50.8	-32	2 ¹ / ₂ - 12	-32	8.78	223	5.95	151	2.20	56



JIC 37° Female Swivel - 60° Elbow

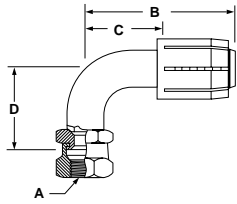
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
9S9725	0.500	12.7	-8	7/ ₈ - 14	-10	3.74	95	2.09	53	1.54	39
6V4670	0.750	19.1	-12	1 ¹ / ₁₆ - 12	-12	4.29	109	2.52	64	1.73	44
1P9892	1.000	25.4	-16	1 ⁵ / ₁₆ - 12	-16	5.31	135	3.35	85	2.24	57

XT-3 Hose Reusable Couplings



JIC 37° Female Swivel - 90° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
5P3857	0.375	9.5	-6	9/16 - 18	-6	3.70	94	2.05	52	0.79	20

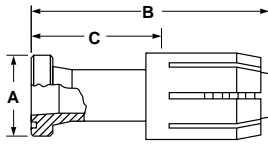


JIC 37° Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
8S6393	0.375	9.5	-6	9/16 - 18	-6	3.31	84	1.61	41	1.81	46
5P2467	0.375	9.5	-6	9/16 - 18	-6	3.31	84	1.61	41	2.24	57
8S6392	0.375	9.5	-6	9/16 - 18	-6	3.31	84	1.61	41	3.27	83
2P1461	0.375	9.5	-6	3/4 - 16	-8	3.43	87	1.73	44	1.81	46
2P1462	0.375	9.5	-6	3/4 - 16	-8	3.43	87	1.73	44	3.27	83
8S6391	0.500	12.7	-8	3/4 - 16	-8	3.23	82	1.54	39	2.13	54
1P8408	0.500	12.7	-8	3/4 - 16	-8	3.35	85	1.68	43	3.62	92
9S2332	0.500	12.7	-8	3/4 - 16	-8	3.31	84	1.61	41	4.49	114
1P4899	0.500	12.7	-8	7/8 - 14	-10	3.23	82	1.54	39	2.13	54
1P1719	0.500	12.7	-8	7/8 - 14	-10	3.23	82	1.54	39	3.27	83
6V4678	0.750	19.1	-12	1 1/16 - 12	-12	4.02	102	2.24	57	2.52	64
6V4680	0.750	19.1	-12	1 1/16 - 12	-12	4.10	104	2.33	59	3.62	92
8K5114	1.000	25.4	-16	1 5/16 - 12	-16	4.72	120	2.76	70	2.64	67
1P9589	1.000	25.4	-16	1 5/16 - 12	-16	4.53	115	2.56	65	3.37	86
2P1411	1.000	25.4	-16	1 5/16 - 12	-16	4.53	115	2.56	65	5.59	142
1552838	1.250	31.8	-20	1 5/8 - 12	-20	5.08	129	2.73	69	3.35	85
1552839	1.500	38.1	-24	1 7/8 - 12	-24	5.94	151	3.34	85	3.54	90
1552840	2.000	50.8	-32	2 1/2 - 12	-32	7.28	185	4.46	113	4.72	120



XT-3 Hose Reusable Couplings

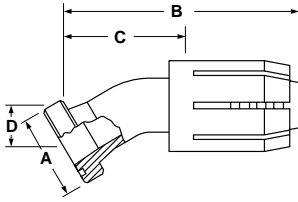


SAE Code 61 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
4S5403	0.375	9.5	-6	1.19	30.2	-8	3.58	91	1.93	49	4J5140	
3S8617	0.500	12.7	-8	1.19	30.2	-8	3.58	91	1.93	49	4J5140	
8S6457	0.500	12.7	-8	1.34	34.1	-10	3.58	91	1.93	49	4J8996	
3S9454	0.500	12.7	-8	1.50	38.1	-12	3.58	91	1.93	49	4J5267	
6V4651	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	4J5267	
6V4655	0.750	19.1	-12	1.50	38.1	-12	4.92	125	3.15	80	4J5267	
6V4652	0.750	19.1	-12	1.75	44.5	-16	3.94	100	2.17	55	4J0520	
6V4653	0.750	19.1	-12	2.00	50.8	-20	3.94	100	2.17	55	4J0522	
5S2420	1.000	25.4	-16	2.25	57.2	—	4.92	125	2.95	75	—	
3S8496	1.000	25.4	-16	1.75	44.5	-16	4.13	105	2.17	55	4J0520	
2P1801	1.000	25.4	-16	1.75	44.5	-16	4.53	115	2.56	65	4J0520	
7S0570	1.000	25.4	-16	2.00	50.8	-20	4.13	105	2.17	55	4J0522	
6V1404	1.000	25.4	-16	2.00	50.8	-20	5.31	135	3.35	85	4J0522	
2P1313	1.000	25.4	-16	2.37	60.3	-24	4.13	105	2.17	55	4J0524	
1P7930	1.000	25.4	-16	2.81	71.4	-32	4.13	105	2.17	55	4J0527	
3S8567	1.250	31.8	-20	2.00	50.8	-20	4.84	123	2.48	63	4J0522	
1P1219	1.250	31.8	-20	2.00	50.8	-20	5.47	139	3.11	79	4J0522	
5S3779	1.250	31.8	-20	2.37	60.3	-24	4.84	123	2.48	63	4J0524	
1P7931	1.250	31.8	-20	2.37	60.3	-24	8.86	225	6.50	165	4J0524	
1P7929	1.250	31.8	-20	2.81	71.4	-32	5.31	135	2.95	75	4J0527	
1P1238	1.500	38.1	-24	2.37	60.3	-24	5.87	149	3.27	83	4J0524	
7S9370	1.500	38.1	-24	2.81	71.4	-32	5.28	134	2.64	67	4J0527	
4S7492	2.000	50.8	-32	2.81	71.4	-32	5.51	140	2.68	68	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

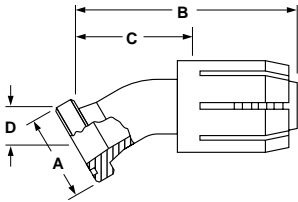
XT-3 Hose Reusable Couplings



SAE Code 61 Flange - 22 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
3S8618	0.500	12.7	-8	1.19	30.2	-8	3.74	95	2.09	53	0.35	9	4J5140
5S2907	0.500	12.7	-8	1.50	38.1	-12	3.74	95	2.09	53	0.35	9	4J5267
6V4658	0.750	19.1	-12	1.50	38.1	-12	4.37	111	2.60	66	0.43	11	4J5267
6V4659	0.750	19.1	-12	1.75	44.5	-16	4.37	111	2.60	66	0.43	11	4J0520
3S8497	1.000	25.4	-16	1.75	44.5	-16	4.84	123	2.87	73	0.43	11	4J0520
7S0571	1.000	25.4	-16	2.00	50.8	-20	4.84	123	2.87	73	0.43	11	4J0522
5P1706	1.000	25.4	-16	2.37	60.3	-24	6.18	157	4.21	107	0.43	11	4J0524
3S8568	1.250	31.8	-20	2.00	50.8	-20	5.12	130	2.80	71	0.51	13	4J0522
5S3784	1.250	31.8	-20	2.37	60.3	-24	5.12	130	2.80	71	0.51	13	4J0524
3S9327	1.500	38.1	-24	2.37	60.3	-24	6.46	164	3.86	98	0.63	16	4J0524
9S0284	1.500	38.1	-24	2.81	71.4	-32	6.46	164	3.86	98	0.63	16	4J0527
4S7493	2.000	50.8	-32	2.81	71.4	-32	7.24	184	4.41	112	0.87	22	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

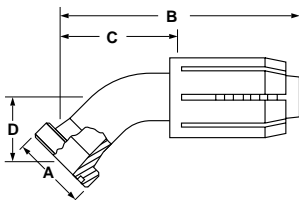


SAE Code 61 Flange - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
3S8619	0.500	12.7	-8	1.19	30.2	-8	3.46	88	1.81	46	0.51	13	4J5140
5S9590	0.500	12.7	-8	1.50	38.1	-12	3.46	88	1.81	46	0.51	13	4J5267
6V4661	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	0.59	15	4J5267
6V4662	0.750	19.1	-12	1.75	44.5	-16	3.94	100	2.17	55	0.59	15	4J0520
3S8498	1.000	25.4	-16	1.75	44.5	-16	4.37	111	2.40	61	0.63	16	4J0520
7S0572	1.000	25.4	-16	2.00	50.8	-20	4.37	111	2.40	61	0.63	16	4J0522
3S8569	1.250	31.8	-20	2.00	50.8	-20	5.08	129	2.72	69	0.71	18	4J0522
8S1396	1.250	31.8	-20	2.37	60.3	-24	5.08	129	2.72	69	0.75	19	4J0524
1P4948	1.250	31.8	-20	2.37	60.3	-24	6.93	176	4.57	116	1.73	44	4J0524
3S9328	1.500	38.1	-24	2.37	60.3	-24	6.34	161	3.74	95	0.91	23	4J0524
1P1708	1.500	38.1	-24	2.81	71.4	-32	6.34	161	3.74	95	0.91	23	4J0527
4S7494	2.000	50.8	-32	2.81	71.4	-32	7.17	182	4.33	110	1.26	32	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

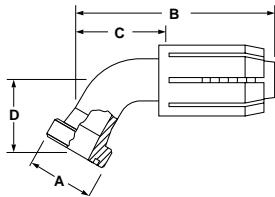
XT-3 Hose Reusable Couplings



SAE Code 61 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
4S5405	0.375	9.5	-6	1.19	30.2	-8	3.50	89	1.85	47	0.71	18	4J5140
3S8972	0.500	12.7	-8	1.19	30.2	-8	3.50	89	1.85	47	0.79	20	4J5140
5S9591	0.500	12.7	-8	1.50	38.1	-12	3.50	89	1.85	47	0.79	20	4J5267
5S9614	0.500	12.7	-8	1.75	44.5	-16	3.50	89	1.85	47	0.79	20	4J0520
6V4664	0.750	19.1	-12	1.50	38.1	-12	4.09	104	2.32	59	0.98	25	4J5267
6V4665	0.750	19.1	-12	1.75	44.5	-16	4.09	104	2.32	59	0.98	25	4J0520
3S8499	1.000	25.4	-16	1.75	44.5	-16	4.61	117	2.64	67	1.06	27	4J0520
7S0573	1.000	25.4	-16	2.00	50.8	-20	4.61	117	2.64	67	1.06	27	4J0522
3S8570	1.250	31.8	-20	2.00	50.8	-20	5.41	138	3.07	78	1.22	31	4J0522
5S3778	1.250	31.8	-20	2.37	60.3	-24	5.31	135	2.95	75	1.18	30	4J0524
3S9329	1.500	38.1	-24	2.37	60.3	-24	6.34	161	3.74	95	1.46	37	4J0524
5P3229	1.500	38.1	-24	2.81	71.4	-32	6.77	172	4.17	106	1.46	37	4J0527
4S7495	2.000	50.8	-32	2.81	71.4	-32	7.60	193	4.76	121	2.05	52	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

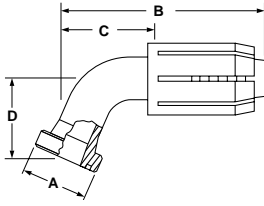


SAE Code 61 Flange - 60° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
3S8973	0.500	12.7	-8	1.19	30.2	-8	3.58	91	1.93	49	1.10	28	4J5140
8S6458	0.500	12.7	-8	1.34	34.1	-10	3.58	91	1.93	49	1.10	28	4J8996
7S3611	0.500	12.7	-8	1.50	38.1	-12	3.58	91	1.93	49	1.10	28	4J5267
6V4668	0.750	19.1	-12	1.50	38.1	-12	4.09	104	2.32	59	1.38	35	4J5267
6V4669	0.750	19.1	-12	1.75	44.5	-16	4.09	104	2.32	59	1.38	35	4J0520
3S8501	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	1.50	38	4J0520
7S0574	1.000	25.4	-16	2.00	50.8	-20	4.72	120	2.76	70	1.50	38	4J0522
3S8571	1.250	31.8	-20	2.00	50.8	-20	5.47	139	3.11	79	1.69	43	4J0522
8S9372	1.250	31.8	-20	2.00	50.8	-20	5.98	152	3.62	92	2.56	65	4J0522
7S4078	1.250	31.8	-20	2.37	60.3	-24	5.47	139	3.11	79	1.69	43	4J0524
1425137	1.500	38.1	-24	2.00	50.8	-20	6.38	162	3.79	96	2.03	52	4J0522
3S9330	1.500	38.1	-24	2.37	60.3	-24	6.38	162	3.78	96	2.05	52	4J0524
7S8440	1.500	38.1	-24	2.81	71.4	-32	6.38	162	3.78	96	2.05	52	4J0527
4S7496	2.000	50.8	-32	2.81	71.4	-32	7.64	194	4.80	122	2.87	73	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

XT-3 Hose Reusable Couplings

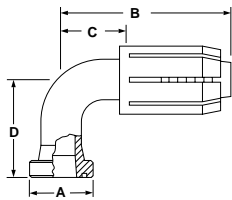


SAE Code 61 Flange - 67 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
3S8974	0.500	12.7	-8	1.19	30.2	-8	3.43	87	1.77	45	1.26	32	4J5140
5S9592	0.500	12.7	-8	1.50	38.1	-12	3.43	87	1.77	45	1.26	32	4J5267
5S9615	0.500	12.7	-8	1.75	44.5	-16	3.43	87	1.77	45	1.26	32	4J0520
6V4671	0.750	19.1	-12	1.50	38.1	-12	4.09	104	2.28	58	1.61	41	4J5267
6V4672	0.750	19.1	-12	1.75	44.5	-16	4.09	104	2.28	58	1.61	41	4J0520
6V4673	0.750	19.1	-12	2.00	50.8	-20	4.09	104	2.28	58	1.61	41	4J0522
3S8502	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	1.77	45	4J0520
5S3454	1.000	25.4	-16	2.00	50.8	-20	4.72	120	2.76	70	1.77	45	4J0522
3S8572	1.250	31.8	-20	2.00	50.8	-20	5.43	138	3.11	79	1.97	50	4J0522
8S8957	1.250	31.8	-20	2.37	60.3	-24	5.43	138	3.11	79	1.97	50	4J0524
3S9331	1.500	38.1	-24	2.37	60.3	-24	6.34	161	3.74	95	2.32	59	4J0524
8S3649	1.500	38.1	-24	2.81	71.4	-32	6.34	161	3.74	95	2.32	59	4J0527
5S3788	2.000	50.8	-32	2.81	71.4	-32	7.52	191	4.69	119	2.95	75	4J0527
4S7497	2.000	50.8	-32	2.81	71.4	-32	7.60	193	4.76	121	3.35	85	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

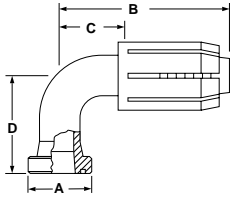
XT-3 Hose Reusable Couplings



SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
7S5064	0.375	9.5	-6	1.19	30.2	-8	3.31	84	1.61	41	1.42	36	4J5140	
4S5407	0.375	9.5	-6	1.19	30.2	-8	3.31	84	1.61	41	1.61	41	4J5140	
3S8975	0.500	12.7	-8	1.19	30.2	-8	3.31	84	1.61	41	1.61	41	4J5140	
7S2175	0.500	12.7	-8	1.19	30.2	-8	3.31	84	1.61	41	3.27	83	4J5140	
8S6459	0.500	12.7	-8	1.34	34.1	-10	3.31	84	1.61	41	1.61	41	4J8996	
5S9593	0.500	12.7	-8	1.50	38.1	-12	3.31	84	1.61	41	1.61	41	4J5267	
5S9638	0.500	12.7	-8	1.50	38.1	-12	3.31	84	1.61	41	2.87	73	4J5267	
5S9616	0.500	12.7	-8	1.75	44.5	-16	3.31	84	1.61	41	1.61	41	4J0520	
6V4675	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	2.13	54	4J5267	
6V4681	0.750	19.1	-12	1.50	38.1	-12	4.09	104	2.32	59	3.78	96	4J5267	
6V4682	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	5.00	127	4J5267	
6V4676	0.750	19.1	-12	1.75	44.5	-16	3.94	100	2.17	55	2.13	54	4J0520	
6V4679	0.750	19.1	-12	1.75	44.5	-16	3.94	100	2.17	55	3.11	79	4J0520	
6V4677	0.750	19.1	-12	2.00	50.8	-20	4.06	103	2.28	58	2.13	54	4J0522	
5S2105	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	2.13	54	4J0520	
7S0577	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	2.24	57	4J0520	
3S8503	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	2.40	61	4J0520	
6D9961	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	4.61	117	4J0520	
7S0575	1.000	25.4	-16	2.00	50.8	-20	4.72	120	2.76	70	2.40	61	4J0522	
2P4813	1.000	25.4	-16	2.00	50.8	-20	4.72	120	2.76	70	4.61	117	4J0522	
7S3122	1.000	25.4	-16	2.37	60.3	-24	4.72	120	2.76	70	2.40	61	4J0524	
5P1031	1.000	25.4	-16	2.37	60.3	-24	4.53	115	2.56	65	4.21	107	4J0524	
3S8573	1.250	31.8	-20	2.00	50.8	-20	5.20	132	2.83	72	2.64	67	4J0522	
5S3811	1.250	31.8	-20	2.00	50.8	-20	5.20	132	2.83	72	3.58	91	4J0522	
5S3826	1.250	31.8	-20	2.00	50.8	-20	5.20	132	2.83	72	3.98	101	4J0522	
5S3832	1.250	31.8	-20	2.00	50.8	-20	5.20	132	2.83	72	4.37	111	4J0522	
5S3820	1.250	31.8	-20	2.00	50.8	-20	5.20	132	2.83	72	4.61	117	4J0522	
8S8221	1.250	31.8	-20	2.00	50.8	-20	5.20	132	2.83	72	5.12	130	4J0522	
5S3842	1.250	31.8	-20	2.00	50.8	-20	5.20	132	2.83	72	6.61	168	4J0522	
5S3777	1.250	31.8	-20	2.37	60.3	-24	5.20	132	2.83	72	2.70	69	4J0524	
2P9923	1.250	31.8	-20	2.37	60.3	-24	5.13	130	2.80	71	3.11	79	4J0524	
7S4105	1.250	31.8	-20	2.37	60.3	-24	5.20	132	2.83	72	4.61	117	4J0524	
5P3230	1.250	31.8	-20	2.37	60.3	-24	5.20	132	2.83	72	5.12	130	4J0524	
3S9332	1.500	38.1	-24	2.37	60.3	-24	6.02	153	3.39	86	3.11	79	4J0524	
5S3836	1.500	38.1	-24	2.37	60.3	-24	6.02	153	3.39	86	5.79	147	4J0524	
8S9345	1.500	38.1	-24	2.37	60.3	-24	6.02	153	3.39	86	6.73	171	4J0524	
7S8439	1.500	38.1	-24	2.81	71.4	-32	6.02	153	3.39	86	3.11	79	4J0527	
8S8946	1.500	38.1	-24	2.81	71.4	-32	6.02	153	3.39	86	4.49	114	4J0527	
8S9344	1.500	38.1	-24	2.81	71.4	-32	6.02	153	3.39	86	6.73	171	4J0527	
4S7498	2.000	50.8	-32	2.81	71.4	-32	6.81	173	3.98	101	4.63	118	4J0527	

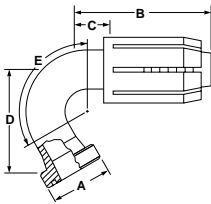
XT-3 Hose Reusable Couplings



SAE Code 61 Flange - 90° Elbow (cont.)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
3P0421	2.000	50.8	-32	2.81	71.4	-32	6.93	176	4.13	105	6.50	165	4J0527	
3P0422	2.000	50.8	-32	2.81	71.4	-32	6.93	176	4.13	105	7.99	203	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

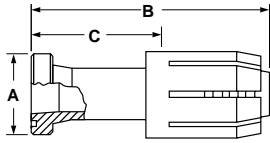


SAE Code 61 Flange - 100° To 135° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		E ANGLE	O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
2P9939	0.500	12.7	-8	1.19	30.2	-8	3.46	88	1.81	46	2.13	54	135	4J5140	
7S1761	0.500	12.7	-8	1.50	38.1	-12	3.46	88	1.81	46	1.97	50	110	4J5267	
6V4685	0.750	19.1	-12	1.50	38.1	-12	3.78	96	2.01	51	2.32	59	100	4J5267	
6V4687	0.750	19.1	-12	1.50	38.1	-12	3.70	94	1.93	49	2.52	64	110	4J5267	
6V4688	0.750	19.1	-12	1.50	38.1	-12	5.04	128	3.27	83	2.72	69	135	4J5267	
6V4686	0.750	19.1	-12	1.75	44.5	-16	3.78	96	2.01	51	2.36	60	100	4J0520	
6V3364	0.750	19.1	-12	1.75	44.5	-16	4.88	124	3.07	78	2.76	70	135	4J0520	
7S1720	1.000	25.4	-16	1.75	44.5	-16	4.53	115	2.56	65	2.87	73	110	4J0520	
6V1236	1.000	25.4	-16	1.75	44.5	-16	4.13	105	2.17	55	3.46	88	135	4J0520	
5P5121	1.000	25.4	-16	2.00	50.8	-20	4.53	115	2.56	65	2.87	73	110	4J0522	
5P9593	1.000	25.4	-16	2.00	50.8	-20	3.66	93	1.69	43	5.24	133	110	4J0522	
7S1707	1.250	31.8	-20	2.00	50.8	-20	5.00	127	2.64	67	3.15	80	110	4J0522	
2P2675	1.250	31.8	-20	2.37	60.3	-24	5.00	127	2.64	67	3.19	81	110	4J0524	
2P8355	1.500	38.1	-24	2.37	60.3	-24	5.47	139	2.87	73	3.70	94	110	4J0524	
5P9956	1.500	38.1	-24	2.37	60.3	-24	7.20	183	4.57	116	4.65	118	110	4J0524	
2P6704	2.000	50.8	-32	2.81	71.4	-32	6.46	164	3.62	92	5.51	140	110	4J0524	
5P4321	2.000	50.8	-32	2.81	71.4	-32	7.11	181	4.29	109	5.94	151	125	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

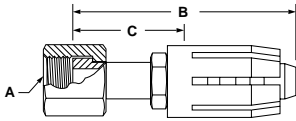
XT-3 Hose Reusable Couplings



Caterpillar Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
3E6826	0.750	19.1	-12	1.63	41.3	-12	5.75	146	3.94	100	1P3702	
3E6867	1.000	25.4	-16	1.87	47.6	-16	5.51	140	3.54	90	1P3703	
3E6868	1.250	31.8	-20	2.13	54.0	-20	5.79	147	3.43	87	1P3704	

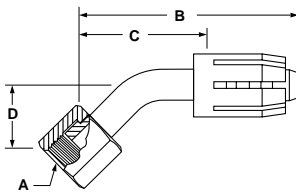
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	
6V9945	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	2.99	76	1.34	34	6V8397
6V9949	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.15	80	1.50	38	6V8398
1552856	0.500	12.7	-8	1 - 14	-10	3.15	80	1.48	38	6V8398
6V9953	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	3.46	88	1.69	43	6V9746
6V9957	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	3.74	95	1.77	45	5K9090
1552857	1.250	31.8	-20	1 ¹¹ / ₁₆ - 12	-20	4.33	110	1.98	50	6V8400
1552858	1.500	38.1	-24	2 - 12	-24	4.72	120	2.12	54	8T0315

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

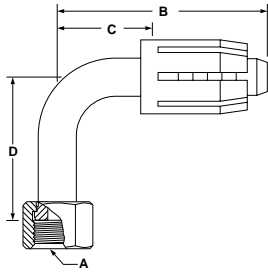


ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
6V9946	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	3.86	98	2.17	55	0.71	18	6V8397
6V9950	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	4.25	108	2.60	66	0.87	22	6V8398
1552859	0.500	12.7	-8	1 - 14	-10	4.31	110	2.65	67	0.85	22	7J9108
6V9954	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	5.00	127	3.23	82	1.10	28	6V9746
6V9958	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	5.63	143	3.66	93	1.26	32	5K9090
1552860	1.250	31.8	-20	1 ¹¹ / ₁₆ - 12	-20	6.69	170	4.34	110	1.38	35	6V8400
1552861	1.500	38.1	-24	2 - 12	-24	7.74	197	5.13	130	1.50	38	8T0315

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

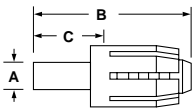
XT-3 Hose Reusable Couplings



ORFS Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
6V9947	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	3.03	77	1.38	35	1.38	35	6V8397
6V9948	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	3.03	77	1.38	35	2.72	69	6V8397
6V9951	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.23	82	1.57	40	1.73	44	6V8398
6V9952	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.23	82	1.57	40	3.27	83	6V8398
1552862	0.500	12.7	-8	1 - 14	-10	3.33	85	1.66	42	1.71	44	7J9108
6V9955	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	3.66	93	1.85	47	2.28	58	6V9746
6V9956	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	3.66	93	1.85	47	4.17	106	6V9746
6V9959	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	4.33	110	2.36	60	2.68	68	5K9090
6V9960	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	4.33	110	2.36	60	4.88	124	5K9090
1552863	1.250	31.8	-20	1 ¹¹ / ₁₆ - 12	-20	5.12	130	2.77	70	2.90	74	6V8400
1552864	1.500	38.1	-24	2 - 12	-24	6.00	153	3.40	86	3.22	82	8T0315

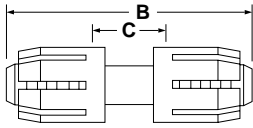
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Braze-on

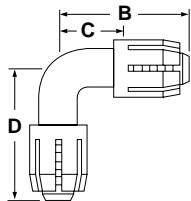
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A TUBE O.D.		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
5P1450	0.375	9.5	-6	0.43	10.9	4.02	102	2.32	59
5P1451	0.500	12.7	-8	0.55	14.0	5.20	132	3.54	90
5P1452	0.750	19.1	-12	0.83	21.0	5.31	135	3.50	89
5P1453	1.000	25.4	-16	1.11	28.3	5.31	135	3.35	85
1P8457	1.250	31.8	-20	1.36	34.6	5.28	134	2.91	74
1P8458	1.500	38.1	-24	1.55	39.4	5.67	144	3.03	77
1P8456	2.000	50.8	-32	2.04	51.9	5.16	131	2.56	65

XT-3 Hose Reusable Couplings



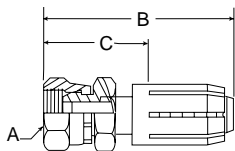
Double Collet

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in)	(mm)	(in)	(mm)
3P0642	0.375	9.5	-6	5.16	131	1.77	45
3P0643	0.500	12.7	-8	5.16	131	1.77	45
6V4689	0.750	19.1	-12	5.35	136	1.77	45
2P2523	1.000	25.4	-16	5.75	146	1.77	45
2P1315	1.250	31.8	-20	6.73	171	2.01	51
3P0644	1.500	38.1	-24	7.24	184	2.01	51
3P0645	2.000	50.8	-32	7.68	195	2.01	51



Double Collet - 90° Elbow

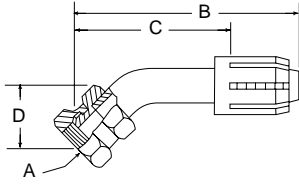
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
5P8886	0.500	12.7	-8	3.35	85	1.65	42	3.35	85
6V4690	0.750	19.1	-12	4.33	110	2.56	65	4.29	109
5P4699	1.000	25.4	-16	5.00	127	3.03	77	5.00	127
5P4700	1.250	31.8	-20	5.87	149	3.50	89	5.87	149
6V2897	1.500	38.1	-24	6.50	165	3.90	99	6.50	165
6V0298	2.000	50.8	-32	7.68	195	4.84	123	7.64	194



JIS/BSPP 60° Cone Female Swivel

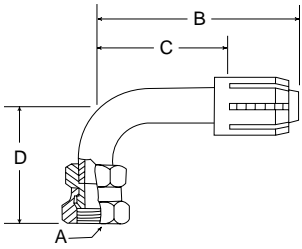
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		JIS-BSPP THREAD SIZE (in - TPI)	JIS-BSPP THREAD DASH SIZE	(in)	(mm)	(in)	(mm)
9X7575	0.750	19.1	-12	3/4 - 14	-12	3.57	91	1.81	46
9X7574	1.000	25.4	-16	1 - 11	-16	4.13	105	2.17	55
9X7641	1.000	25.4	-16	1 - 11	-20	5.60	106	2.20	56

XT-3 Hose Reusable Couplings



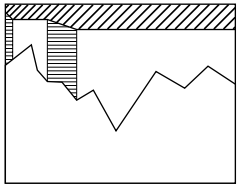
JIS/BSPP 60° Cone Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		JIS-BSPP THREAD SIZE (in - TPI)	JIS-BSPP THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
9X7602	0.750	19.1	-12	3/4 - 14	-12	5.16	131	3.39	86	1.13	29
9X7573	1.000	25.4	-16	1 - 11	-16	5.60	142	3.62	92	1.51	38



JIS/BSPP 60° Cone Female Swivel - 90° Elbow

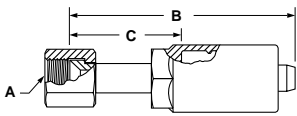
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		JIS-BSPP THREAD SIZE (in - TPI)	JIS-BSPP THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
9X7603	0.750	19.1	-12	3/4 - 14	-12	5.00	127	3.23	82	2.48	63
9X7570	1.000	25.4	-16	1 - 11	-16	4.23	107	2.24	57	2.99	76



Sleeves

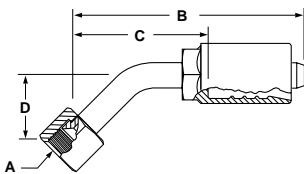
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	PKG. QTY.
	(in)	(mm)		
4S5414	0.375	9.5	-6	50
3S8606	0.500	12.7	-8	40
3S7166	0.750	19.1	-12	25
3S7252	1.000	25.4	-16	15
3S7116	1.250	31.8	-20	1
3S8330	1.500	38.1	-24	1
4S7507	2.000	50.8	-32	1

XT-3 Hose Permanent Couplings



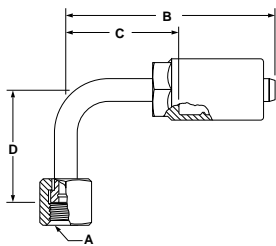
JIC 37° Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
6V9932	0.375	9.5	-6	9/16 - 18	-6	3.27	83	1.61	41
1552831	0.380	9.5	-6	3/4 - 16	-8	3.39	86	1.72	44
6V9936	0.500	12.7	-8	3/4 - 16	-8	3.39	86	1.73	44
1552832	0.500	12.7	-8	7/8 - 14	-10	3.39	86	1.72	44
1468531	0.750	19.1	-12	1 1/16 - 12	-12	3.56	91	1.79	45
1552833	0.750	19.1	-12	1 5/16 - 12	-16	3.56	91	1.79	45
3E6831	1.000	25.4	-16	1 5/16 - 12	-16	4.02	102	2.64	67



JIC 37° Female Swivel - 45° Elbow

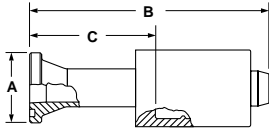
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
6V9933	0.375	9.5	-6	9/16 - 18	-6	3.98	101	2.32	59	1.10	28
6V9937	0.500	12.7	-8	3/4 - 16	-8	4.02	102	2.32	59	1.14	29
1468533	0.750	19.1	-12	1 1/16 - 12	-12	4.45	113	2.67	68	1.26	32
3E6832	1.000	25.4	-16	1 5/16 - 12	-16	5.43	138	3.46	88	1.65	42



JIC 37° Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
6V9934	0.375	9.5	-6	9/16 - 18	-6	3.31	84	1.61	41	1.81	46
6V9935	0.375	9.5	-6	9/16 - 18	-6	3.31	84	1.61	41	3.23	82
6V9938	0.500	12.7	-8	3/4 - 16	-8	3.23	82	1.54	39	2.13	54
6V9939	0.500	12.7	-8	3/4 - 16	-8	3.39	86	1.73	44	3.62	92
1552837	0.500	12.7	-8	7/8 - 14	-10	3.21	82	1.54	39	2.13	54
1468535	0.750	19.1	-12	1 1/16 - 12	-12	4.02	102	2.24	57	2.54	65
3E6833	1.000	25.4	-16	1 5/16 - 12	-16	4.72	120	2.76	70	2.64	67

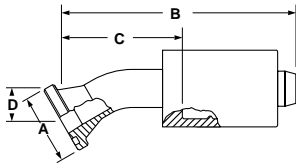
XT-3 Hose Permanent Couplings



SAE Code 61 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
8T3698	0.375	9.5	-6	1.19	30.2	-8	3.58	91	1.93	49	4J5140
8T3702	0.500	12.7	-8	1.19	30.2	-8	3.58	91	1.93	49	4J5140
8T3708	0.500	12.7	-8	1.34	34.1	-10	3.58	91	1.93	49	4J8996
8T3711	0.500	12.7	-8	1.50	38.1	-12	3.58	91	1.93	49	4J5267
8T3717	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	4J5267
8T3723	0.750	19.1	-12	1.75	44.5	-16	3.94	100	2.17	55	4J0520
9X7665	1.000	25.4	-16	1.75	44.5	-16	4.53	115	2.56	65	4J0520

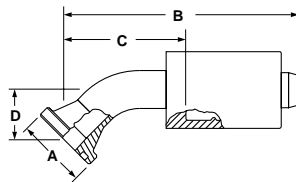
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



SAE Code 61 Flange - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
8T3703	0.500	12.7	-8	1.19	30.2	-8	3.46	88	1.81	46	0.51	13	4J5140
8T3712	0.500	12.7	-8	1.50	38.1	-12	3.46	88	1.81	46	0.51	13	4J5267
8T3718	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	0.59	15	4J5267
8T3724	0.750	19.1	-12	1.75	44.5	-16	3.94	100	2.17	55	0.59	15	4J0520
9X7666	1.000	25.4	-16	1.75	44.5	-16	4.33	110	2.36	60	0.63	16	4J0520

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

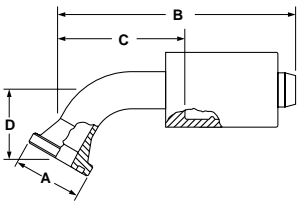


SAE Code 61 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
8T3699	0.375	9.5	-6	1.19	30.2	-8	3.50	89	1.85	47	0.71	18	4J5140
8T3704	0.500	12.7	-8	1.19	30.2	-8	3.50	89	1.85	47	0.79	20	4J5140
8T3713	0.500	12.7	-8	1.50	38.1	-12	3.50	89	1.85	47	0.79	20	4J5267
8T3719	0.750	19.1	-12	1.50	38.1	-12	4.09	104	2.32	59	0.98	25	4J5267
8T3725	0.750	19.1	-12	1.75	44.5	-16	4.09	104	2.28	58	0.98	25	4J0520
9X7667	1.000	25.4	-16	1.75	44.5	-16	4.61	117	2.64	67	1.06	27	4J0520

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

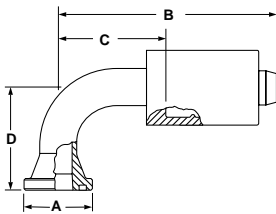
XT-3 Hose Permanent Couplings



SAE Code 61 Flange - 60° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
8T3705	0.500	12.7	-8	1.19	30.2	-8	3.58	91	1.93	49	1.10	28	4J5140
8T3714	0.500	12.7	-8	1.50	38.1	-12	3.58	91	1.93	49	1.10	28	4J5267
8T3720	0.750	19.1	-12	1.50	38.1	-12	4.09	104	2.32	59	1.38	35	4J5267
8T3731	0.750	19.1	-12	1.75	44.5	-16	4.09	104	2.32	59	1.38	35	4J0520
9X7668	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	1.54	39	4J0520

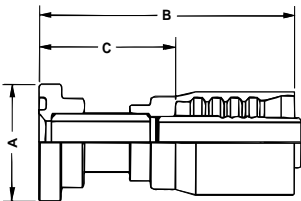
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
8T3700	0.375	9.5	-6	1.19	30.2	-8	3.31	84	1.61	41	1.61	41	4J5140
8T3706	0.500	12.7	-8	1.19	30.2	-8	3.31	84	1.61	41	1.61	41	4J5140
8T3707	0.500	12.7	-8	1.19	30.2	-8	3.31	84	1.61	41	3.27	83	4J5140
8T3710	0.500	12.7	-8	1.34	34.1	-10	3.31	84	1.61	41	1.61	41	4J8996
8T3715	0.500	12.7	-8	1.50	38.1	-12	3.31	84	1.61	41	1.61	41	4J5267
7X4823	0.500	12.7	-8	1.50	38.1	-12	3.31	84	1.61	41	2.87	73	4J5267
8T3721	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	2.13	54	4J5267
3E6818	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	3.78	96	4J5267
8T3722	0.750	19.1	-12	1.50	38.1	-12	3.94	100	2.17	55	5.00	127	4J5267
8T3732	0.750	19.1	-12	1.75	44.5	-16	3.94	100	2.17	55	2.13	54	4J0520
9X7669	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	2.40	61	4J0520
9X7670	1.000	25.4	-16	1.75	44.5	-16	4.72	120	2.76	70	4.65	118	4J0520

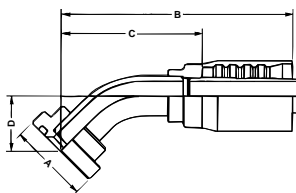
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



SAE Code 62 Flange

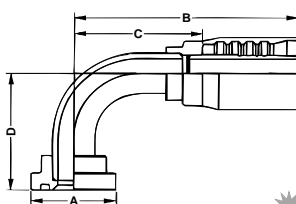
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
1552841	0.375	9.5	-6	1.25	31.8	-8	3.35	85	1.93	49	4J5140
1552842	0.500	12.7	-8	1.25	31.8	-8	3.54	90	2.17	55	4J5140
1552843	0.750	19.1	-12	1.63	41.3	-12	3.62	92	2.09	53	4J5267
1552844	1.000	25.4	-16	1.88	47.6	-16	4.09	104	2.36	60	4J0520

XT-3 Hose Permanent Couplings



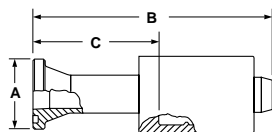
SAE Code 62 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1552845	0.500	12.7	-8	1.25	31.8	-8	3.62	92	2.20	56	0.87	22	4J5140	
1552846	0.750	19.1	-12	1.63	41.3	-12	4.37	111	2.87	73	1.10	28	4J5267	
1552847	1.000	25.4	-16	1.88	47.6	-16	5.24	133	3.54	90	1.30	33	4J0520	



SAE Code 62 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1552848	0.375	9.5	-6	1.25	31.8	-8	2.68	68	1.26	32	1.73	44	4J5140	
1552849	0.500	12.7	-8	1.25	31.8	-8	3.35	85	1.93	49	1.73	44	4J5140	
1552850	0.750	19.1	-12	1.63	41.3	-12	4.09	104	2.60	66	2.32	59	4J5267	
1552851	1.000	25.4	-16	1.88	47.6	-16	4.72	120	2.99	76	2.76	70	4J0520	

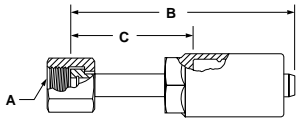


Caterpillar Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
3E6836	0.750	19.1	-12	1.63	41.3	-12	5.75	146	3.94	100	1P3702	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

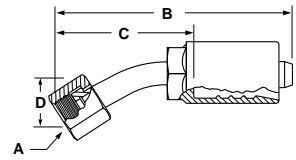
XT-3 Hose Permanent Couplings



ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
6V9961	0.375	9.5	-6	11/16 - 16	-6	2.87	73	1.34	34	6V8397
6V9965	0.500	12.7	-8	13/16 - 16	-8	3.01	77	1.50	38	6V8398
1235235	0.625	15.9	-10	11/16 - 16	-6	2.91	74	1.38	35	6V8397
8T1710	0.625	15.9	-10	1 - 14	-10	3.27	83	1.50	38	7J9108
6V9969	0.750	19.1	-12	13/16 - 12	-12	3.52	90	1.73	44	6V9746
1235234	0.750	19.1	-12	17/16 - 12	-16	3.46	88	1.97	50	5K9090
6V9973	1.000	25.4	-16	17/16 - 12	-16	3.74	95	1.77	45	5K9090
1235238	1.000	25.4	-16	111/16 - 12	-20	3.86	98	2.17	55	6V8400

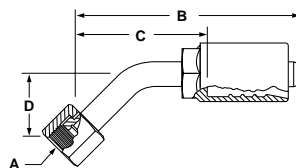
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
1235240	0.750	19.1	-12	13/16 - 12	-12	3.74	95	2.20	56	0.43	11	6V9746

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

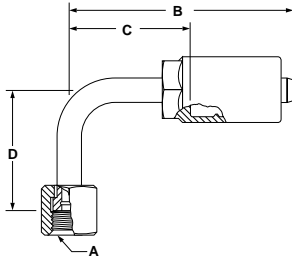


ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
6V9962	0.375	9.5	-6	11/16 - 16	-6	3.58	91	2.17	55	0.71	18	6V8397
6V9966	0.500	12.7	-8	13/16 - 16	-8	4.02	102	2.60	66	0.87	22	6V8398
8T1711	0.625	15.9	-10	1 - 14	-10	4.69	119	3.15	80	1.02	26	7J9108
6V9970	0.750	19.1	-12	13/16 - 12	-12	4.95	126	3.19	81	1.10	28	6V9746
1235237	0.750	19.1	-12	17/16 - 12	-16	4.41	112	2.87	73	0.94	24	5K9090
6V9974	1.000	25.4	-16	17/16 - 12	-16	5.63	143	3.66	93	1.26	32	5K9090
1235239	1.000	25.4	-16	111/16 - 12	-20	5.39	137	3.70	94	1.26	32	6V8400

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

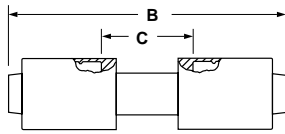
XT-3 Hose Permanent Couplings



ORFS Female Swivel - 90° Elbow

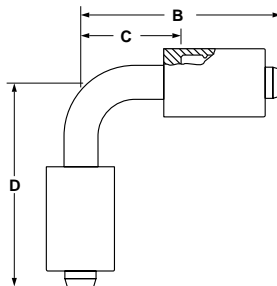
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A		B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
6V9963	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	2.76	70	1.30	33	1.34	34	6V8397
6V9964	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	3.03	77	1.38	35	2.72	69	6V8397
1507999	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.50	89	1.65	42	1.18	30	6V8398
6V9967	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	2.99	76	1.57	40	1.73	44	6V8398
1509382	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.70	94	2.24	57	2.56	65	6V8398
6V9968	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	2.99	76	1.57	40	3.27	83	6V8398
8T1712	0.625	15.9	-10	1 - 14	-10	3.50	89	1.97	50	2.09	53	7J9108
8T1713	0.625	15.9	-10	1 - 14	-10	3.58	91	1.81	46	3.78	96	7J9108
6V9971	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	3.66	93	1.85	47	2.28	58	6V9746
6V9972	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	3.66	93	1.85	47	4.17	106	6V9746
1235236	0.750	19.1	-12	1 ⁷ / ₁₆ - 12	-16	4.33	110	2.80	71	2.28	58	5K9090
6V9975	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	4.33	110	2.36	60	2.68	68	5K9090
6V9976	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	4.33	110	2.36	60	4.88	124	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Double Collet

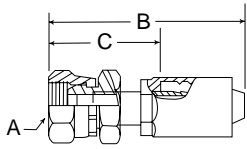
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B		C	
	(in)	(mm)		LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
8T3953	0.500	12.7	-8	5.16	131	1.77	45
8T3955	0.750	19.1	-12	5.35	136	1.81	46



Double Collet - 90° Elbow

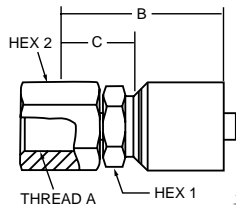
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B		C		D	
	(in)	(mm)		LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
8T3954	0.500	12.7	-8	3.35	85	1.65	42	3.35	85
8T3956	0.750	19.1	-12	4.33	110	2.56	65	4.29	109

XT-3 Hose Permanent Couplings



JIS/BSPP 60° Cone Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A		B		C	
	(in)	(mm)		JIS-BSPP THREAD SIZE (in - TPI)	JIS-BSPP THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
9X7643	0.625	15.9	-10	3/4 - 14	-12	4.13	105	2.36	60



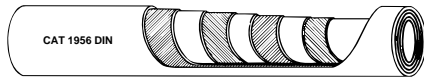
JIS Metric Swivel (30° Flare)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	B		C	
	(in)	(mm)		JIS THREAD SIZE (dia x pitch)	(in)	(mm)	(in)	(mm)
1552852	0.375	9.5	-6	M18 x 1.5	2.44	62	1.02	26
1552853	0.500	12.7	-8	M22 x 1.5	2.60	66	1.18	30
1552854	0.750	19.1	-12	M30 x 1.5	2.95	75	1.42	36
1552855	1.000	25.4	-16	M33 x 1.5	3.15	80	1.46	37

Caterpillar Hose and Couplings (1956)

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Caterpillar Hose (1956)



Cat DIN Four-Wire Spiral Hose (1956)**

Meets the requirements of DIN 20023 4SP.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	DN SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)			(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
1166796	0.375	9.5	-6	10	0.84	21.4	25,429	178,000	6,357	44,500	7.00	180
1166797	0.500	12.7	-8	12	0.97	24.6	23,714	166,000	5,929	41,500	9.00	230
1166798	0.625	15.9	-10	16	1.11	28.2	20,000	140,000	5,000	35,000	10.00	250
1166799	0.750	19.1	-12	20	1.27	32.2	20,000	140,000	5,000	35,000	12.00	300
1166800	1.000	25.4	-16	25	1.56	39.7	16,000	112,000	4,000	28,000	13.50	340
1166801	1.250	31.8	-20	32	2.00	50.8	12,000	84,000	3,000	21,000	18.00	460
1166802	1.500	38.1	-24	40	2.25	57.2	10,571	74,000	2,643	18,500	22.00	560
1166804	2.000	50.8	-32	50	2.75	69.8	9,429	66,000	2,357	16,500	26.00	660

Construction: Synthetic rubber tube; four spiral piles of high tensile steel wire reinforcements separated by layers of synthetic rubber. Oil and weather resistant synthetic rubber cover.

Application: Very high pressure service with petroleum base hydraulic fluids. MSHA approved cover.

Temperature Range: -40° F to +212° F (-40° C to +100° C).

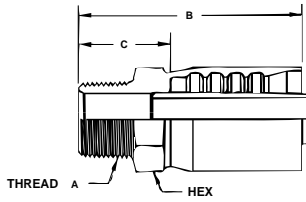
Couplings: Crimp-on permanent, skive-type, see [pages 49-59](#).

NOTE: Hose cover needs to be removed before attaching couplings.

* CENTERLINE OF HOSE

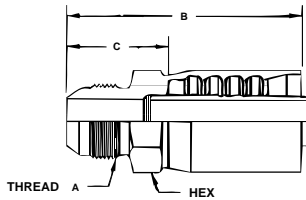
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Caterpillar Hose Couplings (1956)



Male NPTF Pipe

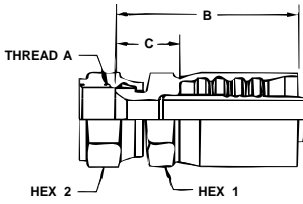
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1160605	0.375	9.5	-6	3/8 - 18	-6	2.36	60	0.87	22
1160606	0.500	12.7	-8	1/2 - 14	-8	2.80	71	1.10	28
1160607	0.625	15.9	-10	1/2 - 14	-8	3.15	80	1.42	36
1160608	0.625	15.9	-10	3/4 - 14	-12	3.15	80	1.42	36
1160609	0.750	19.1	-12	3/4 - 14	-12	3.07	78	1.26	32
1160610	1.000	25.4	-16	1 - 11 1/2	-16	3.46	88	1.54	39
1160611	1.250	31.8	-20	1 1/4 - 11 1/2	-20	3.78	96	1.81	46
1160612	2.000	50.8	-32	2 - 11 1/2	-32	5.43	138	2.80	71



JIC 37° Male

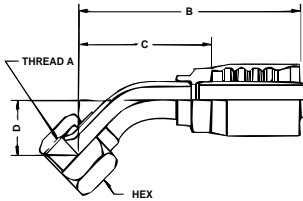
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1160498	0.375	9.5	-6	9/16 - 18	-6	2.36	60	0.87	22
1160499	0.500	12.7	-8	3/4 - 16	-8	2.76	70	1.06	27
1160500	0.625	15.9	-10	7/8 - 14	-10	3.19	81	1.42	36
1160501	0.625	15.9	-10	1 1/16 - 12	-12	3.27	83	1.50	38
1160502	0.750	19.1	-12	1 1/16 - 12	-12	3.19	81	1.38	35
1160503	1.000	25.4	-16	1 5/16 - 12	-16	3.50	89	1.57	40
1160504	1.250	31.8	-20	1 5/8 - 12	-20	3.74	95	1.77	45

Caterpillar Hose Couplings (1956)



JIC 37° Female Swivel

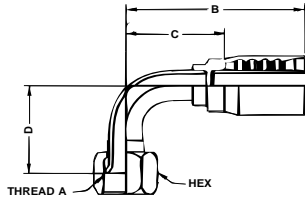
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1160473	0.375	9.5	-6	9/16 - 18	-6	2.24	57	0.75	19
1160474	0.375	9.5	-6	3/4 - 16	-8	2.20	56	0.71	18
1160475	0.500	12.7	-8	3/4 - 16	-8	2.44	62	0.75	19
1160476	0.500	12.7	-8	7/8 - 14	-10	2.44	62	0.75	19
1160479	0.625	15.9	-10	7/8 - 14	-10	2.83	72	1.10	28
1160478	0.625	15.9	-10	7/8 - 14	-12	2.87	73	1.14	29
1160480	0.750	19.1	-12	1 1/16 - 12	-12	2.80	71	0.98	25
1160481	1.000	25.4	-16	1 5/16 - 12	-16	3.19	81	1.22	31
1160482	1.250	31.8	-20	1 5/8 - 12	-20	3.54	90	1.61	41
1160483	1.500	38.1	-24	1 7/8 - 12	-24	4.80	122	2.32	59
1160484	2.000	50.8	-32	2 1/2 - 12	-32	5.55	141	2.95	75



JIC 37° Female Swivel - 45° Elbow

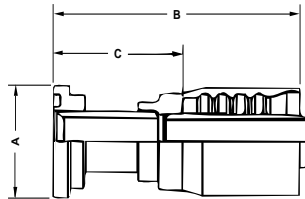
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	DROP (in)	(mm)
1160485	0.375	9.5	-6	9/16 - 18	-6	2.99	76	1.50	38	0.55	14
1160486	0.500	12.7	-8	3/4 - 16	-8	3.58	91	1.89	48	0.67	17
1160488	0.625	15.9	-10	7/8 - 14	-10	4.09	104	2.32	59	0.87	22
1160487	0.625	15.9	-10	1 1/16 - 12	-12	4.45	113	2.68	69	1.02	27
1160489	0.750	19.1	-12	1 1/16 - 12	-12	4.49	114	2.68	68	1.06	27
1160490	1.000	25.4	-16	1 5/16 - 12	-16	5.16	131	3.19	81	1.14	29
1160491	1.250	31.8	-20	1 5/8 - 12	-20	6.10	155	4.17	106	1.69	43

Caterpillar Hose Couplings (1956)



JIC 37° Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD		B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
1160477	0.375	9.5	-6	9/16 - 18	-6	2.72	69	1.22	31	1.10	28
1160492	0.500	12.7	-8	3/4 - 16	-8	3.27	83	1.57	40	1.38	35
1160494	0.625	15.9	-10	7/8 - 14	-10	3.62	92	1.89	48	1.73	44
1160493	0.625	15.9	-10	1 1/16 - 12	-12	3.94	100	2.20	56	2.05	52
1160495	0.750	19.1	-12	1 1/16 - 12	-12	4.02	102	2.20	56	2.05	52
1160496	1.000	25.4	-16	1 5/16 - 12	-16	4.84	123	2.91	74	2.48	63
1160497	1.250	31.8	-20	1 5/8 - 12	-20	5.35	136	3.43	87	3.43	87

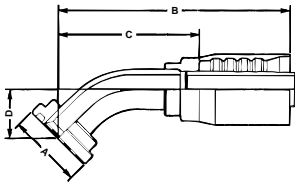


SAE Code 61 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
1160531	0.500	12.7	-8	1.19	30.2	-8	3.46	88	1.77	45	4J5140	
1160532	0.750	19.1	-12	1.50	38.1	-12	3.78	96	1.97	50	4J5267	
1160562	0.750	19.1	-12	1.75	44.5	-16	3.11	79	1.30	33	4J0520	
1160533	1.000	25.4	-16	1.75	44.5	-16	4.37	111	2.40	61	4J0520	
1160534	1.000	25.4	-16	2.00	50.8	-20	4.41	112	2.48	63	4J0522	
1160535	1.250	31.8	-20	2.00	50.8	-20	4.06	103	2.09	53	4J0522	
1160536	1.250	31.8	-20	2.37	60.3	-24	4.17	106	2.20	56	4J0524	
1160538	1.500	38.1	-24	2.37	60.3	-24	5.24	133	2.72	69	4J0524	
1160539	2.000	50.8	-32	2.81	71.4	-32	5.98	152	3.35	85	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

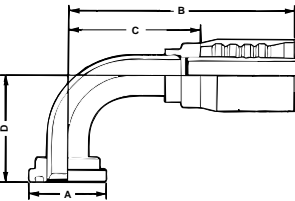
Caterpillar Hose Couplings (1956)



SAE Code 61 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1160541	0.500	12.7	-8	1.19	30.2	-8	3.46	88	1.77	45	0.79	20	4J5140	
1160543	0.750	19.1	-12	1.50	38.1	-12	4.49	114	2.68	68	0.98	25	4J5267	
1160544	1.000	25.4	-16	1.75	44.5	-16	5.16	131	3.23	82	1.02	26	4J0520	
1160545	1.250	31.8	-20	2.00	50.8	-20	5.43	138	3.50	89	1.14	29	4J0522	
1160547	1.500	38.1	-24	2.37	60.3	-24	6.46	164	3.94	100	1.42	36	4J0524	
1160548	2.000	50.8	-32	2.81	71.4	-32	7.91	201	5.28	134	2.01	51	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

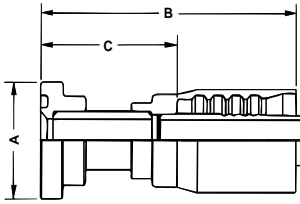


SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1160550	0.500	12.7	-8	1.19	30.2	-8	3.27	83	1.57	40	1.61	41	4J5140	
1160551	0.750	19.1	-12	1.50	38.1	-12	4.37	111	2.56	65	2.09	53	4J5267	
1160552	0.750	19.1	-12	1.75	44.5	-16	4.37	111	2.56	65	2.09	53	4J0520	
1160554	1.000	25.4	-16	1.75	44.5	-16	4.88	124	2.95	75	2.40	61	4J0520	
1160555	1.000	25.4	-16	2.00	50.8	-20	4.84	123	2.91	74	2.36	60	4J0522	
1160557	1.250	31.8	-20	2.00	50.8	-20	5.35	136	3.43	87	2.60	66	4J0522	
1160558	1.250	31.8	-20	2.37	60.3	-24	5.35	136	3.43	87	2.60	66	4J0524	
1160559	1.500	38.1	-24	2.37	60.3	-24	6.42	163	3.94	100	3.11	79	4J0524	
1160561	2.000	50.8	-32	2.81	71.4	-32	7.48	190	4.84	123	4.49	114	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose Couplings (1956)

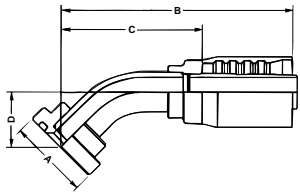


SAE Code 62 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
1160563	0.375	9.5	-6	1.25	31.8	-8	3.43	87	1.93	49	4J5140
1160565	0.500	12.7	-8	1.25	31.8	-8	3.58	91	1.93	49	4J5140
1160566	0.500	12.7	-8	1.63	41.3	-12	3.58	91	1.93	49	4J5267
1160568	0.625	15.9	-10	1.25	31.8	-8	3.74	95	1.97	50	4J5140
1160570	0.625	15.9	-10	1.63	41.3	-12	3.86	98	2.13	54	4J5267
1160571	0.750	19.1	-12	1.63	41.3	-12	3.86	98	2.05	52	4J5267
1160572	0.750	19.1	-12	1.87	47.6	-16	3.86	98	2.05	52	4J0520
1160575	1.000	25.4	-16	1.63	41.3	-12	4.29	109	2.36	60	4J5267
1160576	1.000	25.4	-16	1.87	47.6	-16	4.21	107	2.28	58	4J0520
1160577	1.000	25.4	-16	2.13	54.0	-20	4.69	119	2.72	69	4J0522
1160578	1.250	31.8	-20	2.13	54.0	-20	4.25	108	2.28	58	4J0522
1160579	1.250	31.8	-20	2.50	63.5	-24	4.25	108	2.28	58	4J0524
1160580	1.500	38.1	-24	2.50	63.5	-24	5.79	147	3.31	84	4J0524
1160581	2.000	50.8	-32	3.13	79.4	-32	6.14	156	3.54	90	4J0527

Use Code 62 Split Flanges with these couplings.

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



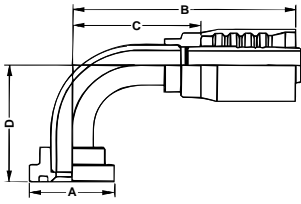
SAE Code 62 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1160582	0.500	12.7	-8	1.25	31.8	-8	3.50	89	1.89	48	0.87	22	4J5140
1160583	0.625	15.9	-10	1.25	31.8	-8	4.13	105	2.36	60	0.87	22	4J5140
1160584	0.625	15.9	-10	1.63	41.3	-12	4.21	107	2.48	63	0.94	24	4J5267
1160585	0.750	19.1	-12	1.63	41.3	-12	4.61	117	2.80	71	1.10	28	4J5267
1160586	0.750	19.1	-12	1.87	47.6	-16	4.61	117	2.80	71	1.10	28	4J0520
1160587	1.000	25.4	-16	1.87	47.6	-16	5.39	137	3.43	87	1.26	32	4J0520
1160588	1.000	25.4	-16	2.13	54.0	-20	5.39	137	3.43	87	1.26	32	4J0522
1160589	1.250	31.8	-20	2.13	54.0	-20	5.63	143	3.70	94	1.38	35	4J0522
1160590	1.500	38.1	-24	2.50	63.5	-24	6.85	174	4.37	111	1.81	46	4J0524
1160591	2.000	50.8	-32	3.13	79.4	-32	8.03	204	5.43	138	2.17	55	4J0527

Use Code 62 Split Flanges with these couplings.

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose Couplings (1956)

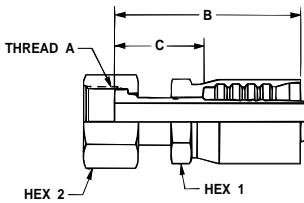


SAE Code 62 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1160592	0.375	9.5	-6	1.25	31.8	-8	2.99	76	1.50	38	1.61	41	4J5140	
1160593	0.500	12.7	-8	1.25	31.8	-8	3.27	83	1.57	40	1.73	44	4J5140	
1160594	0.625	15.9	-10	1.25	31.8	-8	3.78	96	2.01	51	1.73	44	4J5140	
1160595	0.625	15.9	-10	1.63	41.3	-12	3.78	96	2.01	51	1.85	47	4J5267	
1160635	0.625	15.9	-10	1.63	41.3	-12	3.78	96	2.01	51	3.35	85	4J5267	
1160596	0.750	19.1	-12	1.63	41.3	-12	4.33	110	2.56	65	2.28	58	4J5267	
1160597	0.750	19.1	-12	1.87	47.6	-16	4.33	110	2.56	65	2.28	58	4J0520	
1160598	1.000	25.4	-16	1.63	41.3	-12	4.65	118	2.72	69	2.28	58	4J5267	
1160599	1.000	25.4	-16	1.87	47.6	-16	4.84	123	2.91	74	2.72	69	4J0520	
1160600	1.000	25.4	-16	2.13	54.0	-20	4.84	123	2.91	74	2.72	69	4J0522	
1160601	1.250	31.8	-20	2.13	54.0	-20	5.35	136	3.43	87	2.91	74	4J0522	
1160602	1.250	31.8	-20	2.50	63.5	-24	5.35	136	3.43	87	2.91	74	4J0524	
1160603	1.500	38.1	-24	2.50	63.5	-24	6.34	161	3.82	97	3.74	95	4J0524	
1160604	2.000	50.8	-32	3.13	79.4	-32	7.48	190	4.84	123	4.65	118	4J0527	

Use Code 62 Split Flanges with these couplings.

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

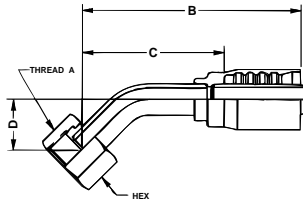


ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	
1160613	0.375	9.5	-6	11/16 - 16	-6	2.60	66	1.14	29	6V8397
1160614	0.375	9.5	-6	13/16 - 16	-8	2.60	66	1.14	29	6V8398
1160615	0.500	12.7	-8	13/16 - 16	-8	2.91	74	1.22	31	6V8398
1160616	0.625	15.9	-10	1 - 14	-10	3.39	86	1.61	41	7J9108
1160637	0.625	15.9	-10	13/16 - 12	-12	3.46	88	1.73	44	6V9746
1160617	0.750	19.1	-12	13/16 - 12	-12	3.50	89	1.65	42	6V9746
1160618	0.750	19.1	-12	17/16 - 12	-16	3.62	92	1.81	46	5K9090
1160619	1.000	25.4	-16	17/16 - 12	-16	4.02	102	2.09	53	5K9090
1160620	1.000	25.4	-16	111/16 - 12	-20	3.94	100	2.01	51	2Y2347

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

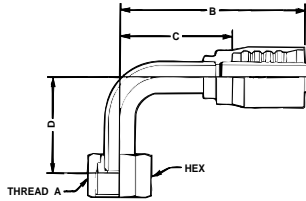
Caterpillar Hose Couplings (1956)



ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1160621	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	2.80	71	1.82	46	0.59	15	6V8397
1160636	0.375	9.5	-6	1 ³ / ₁₆ - 16	-8	3.03	77	1.61	41	0.59	15	6V8398
1160622	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.46	88	1.77	45	0.59	15	6V8398
1160623	0.625	15.9	-10	1 - 14	-10	3.86	98	1.77	45	0.63	16	7J9108
1160624	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	4.25	108	2.44	62	0.83	21	6V9746
1160625	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	4.92	125	2.99	76	0.91	23	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

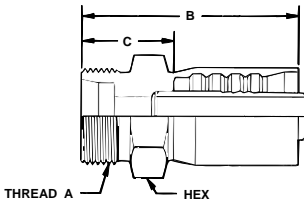


ORFS Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1160626	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	2.80	71	1.34	34	0.87	22	6V8397
1160627	0.375	9.5	-6	1 ³ / ₁₆ - 16	-8	2.72	69	1.22	31	1.14	29	6V8398
1160628	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.35	85	1.65	42	1.61	41	6V8398
1160629	0.625	15.9	-10	1 - 14	-10	3.62	92	1.89	48	1.26	32	7J9108
1160630	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	4.49	114	2.76	71	1.85	48	6V9746
1160631	0.750	19.1	-12	1 ⁷ / ₁₆ - 12	-16	4.76	121	2.95	75	2.20	56	5K9090
1160632	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	5.16	131	3.19	81	2.20	56	5K9090
1160633	1.000	25.4	-16	1 ¹¹ / ₁₆ - 12	-20	5.16	131	3.19	81	2.48	63	2Y2347

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

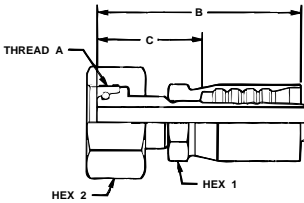
Caterpillar Hose Couplings (1956)



Metric Male - 24° Cone - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)		A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		METRIC O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
1160465	0.375	9.5	-6	M20 x 1.5	0.47	12	2.32	59	0.83	21	3E4297	
1160466	0.375	9.5	-6	M22 x 1.5	0.55	14	2.40	61	0.91	23	1J9671	
1160467	0.500	12.7	-8	M24 x 1.5	0.63	16	2.60	66	0.91	23	3E4298	
1160468	0.625	15.9	-10	M30 x 2.0	0.79	20	3.11	79	1.38	35	3E4299	
1160469	0.750	19.1	-12	M30 x 2.0	0.79	20	3.07	78	1.26	32	3E4299	
1160470	0.750	19.1	-12	M36 x 2.0	0.98	25	3.15	80	1.34	34	3E6762	
1160471	1.000	25.4	-16	M42 x 2.0	1.18	30	3.39	86	1.46	37	3E6763	
1160472	1.250	31.8	-20	M52 x 2.0	1.50	38	3.70	94	1.77	45	3E6764	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

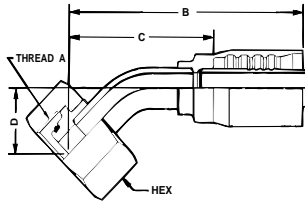


Metric Female Swivel - Spherical Seat With O-Ring - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)		A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		METRIC O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
1160440	0.375	9.5	-6	M20 x 1.5	0.47	12	2.95	75	1.46	37	3E4297	
1160441	0.375	9.5	-6	M22 x 1.5	0.55	14	3.15	80	1.65	42	7T0508	
1160442	0.500	12.7	-8	M24 x 1.5	0.63	16	3.46	88	1.77	45	3E4298	
1160443	0.625	15.9	-10	M30 x 2.0	0.79	20	3.78	96	2.01	51	3E4299	
1160444	0.750	19.1	-12	M36 x 2.0	0.98	25	3.66	93	2.52	64	3E6762	
1160445	1.000	25.4	-16	M36 x 2.0	0.98	25	3.35	85	1.42	36	3E6762	
1160446	1.000	25.4	-16	M42 x 2.0	1.18	30	4.25	108	2.32	59	3E6763	
1160447	1.250	31.8	-20	M52 x 2.0	1.50	38	4.57	116	2.64	67	3E6764	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

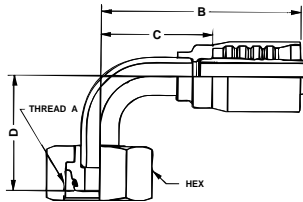
Caterpillar Hose Couplings (1956)



Metric Female Swivel - Spherical Seat With O-Ring - 45° Elbow - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE		A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		D DROP		METRIC O-RING SEAL
	(in)	(mm)		(dia x pitch)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
1160448	0.375	9.5	-6	M20 x 1.5	0.47	12	3.31	84	1.81	46	0.87	22	3E4297	
1160449	0.375	9.5	-6	M22 x 1.5	0.55	14	3.31	84	1.81	46	0.87	22	7T0508	
1160450	0.500	12.7	-8	M24 x 1.5	0.63	16	3.90	99	2.20	56	0.94	24	3E4298	
1160451	0.625	15.9	-10	M30 x 2.0	0.79	20	4.33	110	2.56	65	1.10	28	3E4299	
1160452	0.750	19.1	-12	M36 x 2.0	0.98	25	4.61	117	2.80	71	1.18	30	3E6762	
1160453	1.000	25.4	-16	M42 x 2.0	1.18	30	5.91	150	3.94	100	1.65	42	3E6763	
1160454	1.250	31.8	-20	M52 x 2.0	1.50	38	5.94	151	4.02	102	1.57	40	3E6764	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

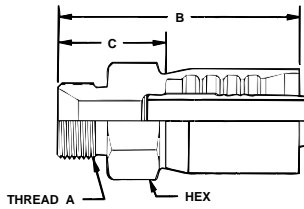


Metric Female Swivel - Spherical Seat With O-Ring - 90° Elbow - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE		A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		D DROP		METRIC O-RING SEAL
	(in)	(mm)		(dia x pitch)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
1160455	0.375	9.5	-6	M20 x 1.5	0.47	12	2.72	69	1.22	31	1.46	37	3E4297	
1160456	0.375	9.5	-6	M22 x 1.5	0.55	14	2.72	69	1.22	31	1.46	37	7T0508	
1160457	0.500	12.7	-8	M24 x 1.5	0.63	16	3.27	83	1.57	40	1.73	44	3E4298	
1160458	0.625	15.9	-10	M30 x 2.0	0.79	20	3.62	92	1.89	48	2.17	55	3E4299	
1160462	0.750	19.1	-12	M36 x 2.0	0.98	25	4.02	102	2.20	56	2.24	57	3E6762	
1160463	1.000	25.4	-16	M42 x 2.0	1.18	30	5.12	130	3.19	81	3.19	81	3E6763	
1160464	1.250	31.8	-20	M52 x 2.0	1.50	38	5.31	135	3.39	86	3.19	81	3E6764	

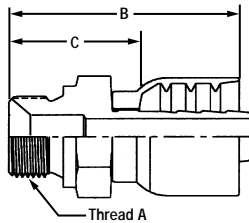
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose Couplings (1956)



Male JIS 60° Cone

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		JIS THREAD SIZE (in - TPI)	JIS THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1160523	0.375	9.5	-6	3/8 - 19	-6	2.44	62	0.91	23
1160524	0.500	12.7	-8	1/2 - 14	-8	2.76	70	1.06	27
1160525	0.625	15.9	-10	5/8 - 14	-10	3.15	80	1.42	36
1160527	0.750	19.1	-12	3/4 - 14	-12	3.27	83	1.46	37
1160528	1.000	25.4	-16	1 - 11	-16	3.46	88	1.54	39
1160530	1.250	31.8	-20	1 1/4 - 11	-20	3.94	100	2.01	51

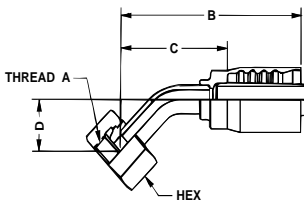


Male BSPP 60° Cone

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		BSPP DOWTY SEAL
	(in)	(mm)		BSPP THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
1160638	0.375	9.5	-6	3/8 - 19	-6	2.43	62	0.93	24	6V0406
1160640	0.500	12.7	-8	1/2 - 14	-8	2.79	71	1.10	28	6V0407
1160641	0.625	15.9	-10	5/8 - 14	-10	3.15	80	1.40	36	8C6504
1160642	0.750	19.1	-12	3/4 - 14	-12	3.27	83	1.46	37	6V0408
1160643	1.000	25.4	-16	1 - 11	-16	3.48	88	1.54	39	6V0409
1160645	1.250	31.8	-20	1 1/4 - 11	-20	3.95	100	2.01	51	9X7423

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Dowty seal is required with a port connection only. No seal is required with a BSPP Female Swivel 60° Cone or Spherical Seat.

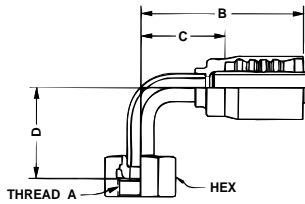


BSPP Female Swivel - Spherical Seat - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		BSPP THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1160511	0.375	9.5	-6	3/8 - 19	-6	3.23	82	1.73	44	0.79	20
1160512	0.500	12.7	-8	1/2 - 14	-8	3.70	94	2.01	51	0.79	20
1160513	0.625	15.9	-10	5/8 - 14	-10	4.13	105	2.40	61	0.87	22
1160514	0.750	19.1	-12	3/4 - 14	-12	4.45	113	2.64	67	1.10	28
1160515	1.000	25.4	-16	1 - 11	-16	5.20	132	3.23	83	1.10	29
1160516	1.250	31.8	-20	1 1/4 - 11	-20	5.94	151	4.02	102	1.54	39

NOTE: Interchangeable with JIS 60° Cone Female Swivel.

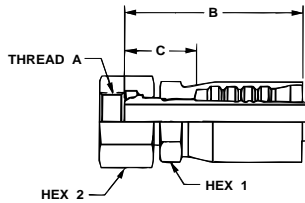
Caterpillar Hose Couplings (1956)



BSPP Female Swivel - Spherical Seat - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		BSPP THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1160517	0.375	9.5	-6	3/8 - 19	-6	2.72	69	1.22	31	1.46	37
1160518	0.500	12.7	-8	1/2 - 14	-8	3.27	83	1.57	40	1.54	39
1160519	0.625	15.9	-10	5/8 - 14	-10	3.78	96	2.05	52	1.73	44
1160520	0.750	19.1	-12	3/4 - 14	-12	3.74	95	1.93	49	2.28	58
1160521	1.000	25.4	-16	1 - 11	-16	4.69	119	2.72	69	2.44	62
1160522	1.250	31.8	-20	1 1/4 - 11	-20	5.39	137	3.43	87	3.19	81

NOTE: Interchangeable with JIS 60° Cone Female Swivel.




JIS/BSPP 60° Cone Female Swivel

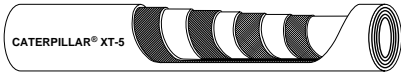
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		JIS-BSPP THREAD SIZE (in - TPI)	JIS-BSPP THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1160505	0.375	9.5	-6	3/8 - 19	-6	2.64	67	1.14	29
1160506	0.500	12.7	-8	1/2 - 14	-8	2.99	76	1.30	33
1160507	0.625	15.9	-10	5/8 - 14	-10	3.19	81	1.46	37
1160508	0.750	19.1	-12	3/4 - 14	-12	2.99	76	1.18	30
1160509	1.000	25.4	-16	1 - 11	-16	3.62	92	1.65	42
1160510	1.250	31.8	-20	1 1/4 - 11	-20	3.98	101	2.01	51

XT-5 Hose and Couplings

- XT-5 Hose (1036) 62
- XT-5 Hose Reusable Couplings
 - NPTF 63
 - SAE Code 61 Flange 63
 - Caterpillar Flange 65
 - ORFS 69
 - Double Collet 70
 - JIS/BSPP 70
 - Sleeves 71
- XT-5 Hose Permanent Couplings
 - SAE Code 61 Flange 72
 - Caterpillar Flange 72
 - ORFS 73

 = Product Addition

XT-5 Hose



XT-5 Hose (1036)**

Exceeds the requirements of SAE 100R13.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
5P0200	0.750	19.1	-12	1.26	32.1	20,000	140,000	5,000	35,000	9.49	241
5P0201	1.000	25.4	-16	1.52	38.7	20,000	140,000	5,000	35,000	12.01	305
5P0202	1.250	31.8	-20	1.96	49.8	20,000	140,000	5,000	35,000	16.50	419
5P0203	1.500	38.1	-24	2.26	57.3	20,000	140,000	5,000	35,000	20.00	508
5P8358	2.000	50.8	-32	2.80	71.1	20,000	140,000	5,000	35,000	25.00	635

Construction: Fabric reinforced, synthetic rubber tube; four or six piles of spirally-wrapped high tensile steel wire reinforcement, separated by layers of synthetic rubber. Oil, weather, and abrasion resistant synthetic rubber outer cover.

Application: Very high pressure service with petroleum base hydraulic fluids. MSHA approved cover.

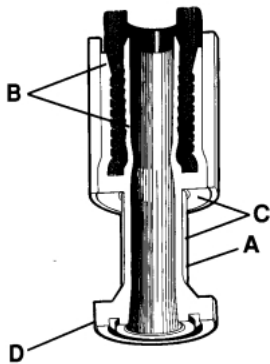
Temperature Range: -40° F to +250° F (-40° C to +121° C)

Couplings: Collet-type reusable, skive type - [pages 63-71](#). Crimp-on permanent, skive type - [page 72-74](#). For related assembly equipment and tooling, see [pages 277 - 310](#).

NOTE: Hose cover needs to be removed before attaching couplings.

* CENTERLINE OF HOSE

** SOLD BY THE CENTIMETER



XT-5 Hose Couplings Features and Benefits

XT-5 Hose Couplings have the same advantages as XT-3 Hose Couplings as well as these added features for 5000 psi (35,000 kPa) application:

(A) Stem Construction

- Heavier for greater durability.

(B) Finger and Stem

- Longer for extra grip and superior coupling retention.

(C) Extruded Head Stem and Collet

- More uniform strength for longer coupling assembly life.

(D) Precision Machined Rectangular Ring Head

- Positive high-pressure seal.

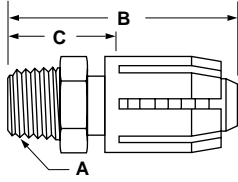
warning!

TO AVOID SERIOUS PERSONAL INJURY TO THE OPERATOR AND EXTENSIVE DAMAGE TO THE EQUIPMENT, THE FOLLOWING PROCEDURES MUST BE OBSERVED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

- ① ALWAYS match hose, stem assemblies and sleeves according to markings (Δ / + / UHP).
- ② NEVER interchange XT-3 hose, stem assemblies and sleeves marked with a triangle (Δ) with XT-5 hose, stem assemblies and sleeves marked with a plus (+) or XT-6 hose, stem assemblies and sleeves marked with UHP.

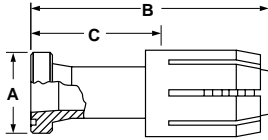


XT-5 Hose Reusable Couplings



Male NPTF Pipe

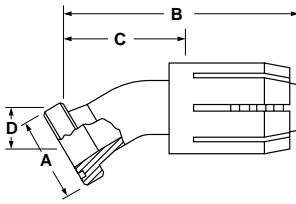
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in - TPI)	(mm)	(in)	(mm)	(in)	(mm)
6V2448	1.000	25.4	-16	1 - 11 1/2	-16	5.16	131	2.52	64



SAE Code 61 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1552865	0.750	19.1	-12	1.50	38	-12	5.43	138	3.16	80	4J5267	
1552866	1.000	25.4	-16	1.75	44	-16	5.94	151	3.30	84	4J0520	
1552867	1.250	31.8	-20	2.00	51	-20	6.42	163	3.38	86	4J0522	
8T7978	1.500	38.1	-24	2.37	60.3	-24	6.38	162	3.11	79	4J0524	
8C5234	1.500	38.1	-24	2.81	71.4	-32	6.38	162	3.11	79	4J0527	

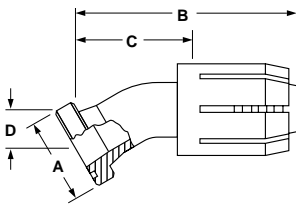
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



SAE Code 61 Flange - 22 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP	O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
7X1431	1.500	38.1	-24	2.38	60.3	-24	8.39	213	5.12	130	0.67	17	4J0524

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

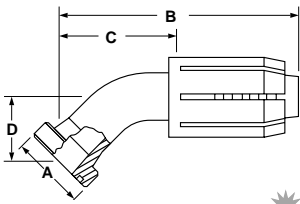


SAE Code 61 Flange - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP	O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
8T7979	1.500	38.1	-24	2.37	60.3	-24	8.39	213	5.12	130	0.94	24	4J0524

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

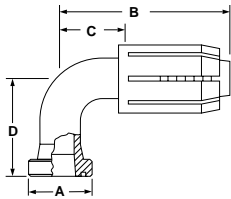
XT-5 Hose Reusable Couplings



SAE Code 61 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1552868	0.750	19.1	-12	1.50	38	-12	5.16	131	2.88	73	0.97	25	4J5267	
1552869	1.000	25.4	-16	1.75	44	-16	5.67	144	3.02	77	1.06	27	4J0520	
1552870	1.250	31.8	-20	2.00	51	-20	6.61	168	3.57	91	1.20	31	4J0522	
8T7980	1.500	38.1	-24	2.37	60.3	-24	8.15	207	4.92	125	1.50	38	4J0524	
1552871	1.500	38.1	-24	2.81	71	-32	8.62	219	5.37	137	1.69	43	4J0527	

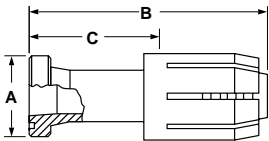
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1196729	0.750	19.1	-12	1.50	38.1	-12	4.45	113	2.17	55	2.13	54	4J5267	
1552872	1.000	25.4	-16	1.75	44	-16	5.94	151	3.30	84	2.38	61	4J0520	
1552873	1.250	31.8	-20	2.00	51	-20	7.24	184	4.21	107	3.40	86	4J0522	
3E6822	1.500	38.1	-24	2.38	60	-24	6.36	162	3.11	79	3.19	81	4J0524	
1552874	1.500	38.1	-24	2.81	71	-32	6.69	170	3.44	88	3.50	89	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

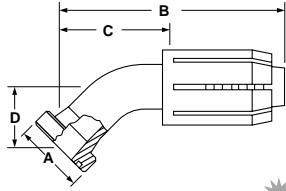


SAE Code 62 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
1552875	0.750	19.1	-12	1.63	41	-12	5.51	140	3.24	82	4J5267	
1552876	1.000	25.4	-16	1.87	48	-16	6.00	152	3.35	85	4J0520	
1552877	1.250	31.8	-20	2.13	54	-20	6.28	160	3.25	83	4J0522	
1552878	1.500	38.1	-24	2.50	64	-24	6.49	165	3.24	82	4J0524	
1552879	2.000	50.8	-32	3.13	79	-32	8.10	206	4.29	109	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

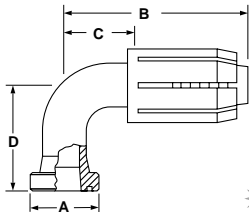
XT-5 Hose Reusable Couplings



SAE Code 62 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1552880	0.750	19.1	-12	1.63	41	-12	5.16	131	2.88	73	1.21	31	4J5267
1552881	1.000	25.4	-16	1.87	48	-16	5.62	143	2.97	76	1.31	33	4J0520
1552882	1.250	31.8	-20	2.13	54	-20	6.32	161	3.28	83	1.35	34	4J0522
1552883	1.500	38.1	-24	2.50	64	-24	8.52	216	5.27	134	1.59	40	4J0524
1552884	2.000	50.8	-32	3.13	79	-32	10.86	276	7.05	179	2.29	58	4J0527

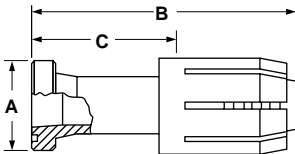
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



SAE Code 62 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1552885	0.750	19.1	-12	1.63	41	-12	4.65	118	2.37	60	2.48	63	4J5267
1552886	1.000	25.4	-16	1.87	48	-16	5.17	131	2.53	64	2.73	69	4J0520
1552887	1.250	31.8	-20	2.13	54	-20	5.77	147	2.73	69	2.87	73	4J0522
1552888	1.500	38.1	-24	2.50	64	-24	6.69	170	3.44	88	3.35	85	4J0524
1552889	2.000	50.8	-32	3.13	79	-32	8.21	209	4.40	112	4.85	123	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

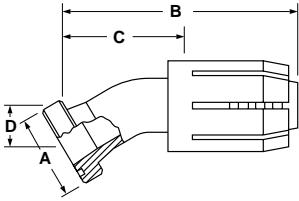


Caterpillar Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
2P3270	0.750	19.1	-12	1.63	41.3	-12	5.75	146	3.46	88	1P3702
2P3930	0.750	19.1	-12	1.87	47.6	-16	5.75	146	3.46	88	1P3703
5P1125	1.000	25.4	-16	1.87	47.6	-16	6.18	157	3.54	90	1P3703
5P1131	1.000	25.4	-16	2.13	54.0	-20	6.18	157	3.54	90	1P3704
2P6733	1.250	31.8	-20	2.13	54.0	-20	6.46	164	3.43	87	1P3704
2P1416	1.250	31.8	-20	2.50	63.5	-24	6.46	164	3.43	87	1P3705
5P3093	1.500	38.1	-24	2.50	63.5	-24	6.57	167	3.31	84	1P3705
8T1009	1.500	38.1	-24	2.50	63.5	-24	8.74	222	5.51	140	1P3705
5P3101	1.500	38.1	-24	3.13	79.4	-32	6.57	167	3.31	84	1P3709
5P7886	2.000	50.8	-32	3.13	79.4	-32	8.15	207	4.33	110	1P3709

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

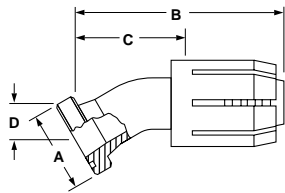
XT-5 Hose Reusable Couplings



Caterpillar Flange - 22 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
2P3269	0.750	19.1	-12	1.63	41.3	-12	5.12	130	2.83	72	0.63	16	1P3702	
2P3935	0.750	19.1	-12	1.87	47.6	-16	5.12	130	2.87	73	0.63	16	1P3703	
5P1126	1.000	25.4	-16	1.87	47.6	-16	5.55	141	2.87	73	0.67	17	1P3703	
5P1132	1.000	25.4	-16	2.13	54.0	-20	5.55	141	2.87	73	0.67	17	1P3704	
2P6728	1.250	31.8	-20	2.13	54.0	-20	6.10	155	3.03	77	0.67	17	1P3704	
2P1424	1.250	31.8	-20	2.50	63.5	-24	6.10	155	3.03	77	0.67	17	1P3705	
5P6451	1.500	38.1	-24	2.50	63.5	-24	8.62	219	5.31	135	0.67	17	1P3705	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

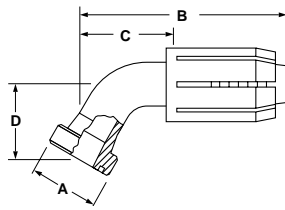


Caterpillar Flange - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
2P3268	0.750	19.1	-12	1.63	41.3	-12	5.04	128	2.76	70	0.87	22	1P3702	
2P3934	0.750	19.1	-12	1.87	47.6	-16	5.04	128	2.76	70	0.87	22	1P3703	
5P1127	1.000	25.4	-16	1.87	47.6	-16	5.67	144	2.99	76	0.91	23	1P3703	
5P1133	1.000	25.4	-16	2.13	54.0	-20	5.67	144	2.99	76	0.91	23	1P3704	
2P6729	1.250	31.8	-20	2.13	54.0	-20	6.22	158	3.15	80	0.94	24	1P3704	
2P1415	1.250	31.8	-20	2.50	63.5	-24	6.22	158	3.15	80	0.94	24	1P3705	
5P4877	1.500	38.1	-24	2.50	63.5	-24	8.54	217	5.31	135	1.04	27	1P3705	
1117659	1.500	38.1	-24	2.50	63.5	-24	9.53	242	6.26	159	1.38	35	1P3705	
6V1074	1.500	38.1	-24	3.13	79.4	-32	9.09	231	5.84	148	1.15	29	1P3709	
5P7968	2.000	50.8	-32	3.13	79.4	-32	11.30	287	7.48	190	1.46	37	1P3709	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

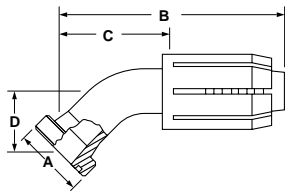
XT-5 Hose Reusable Couplings



Caterpillar Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
2P3267	0.750	19.1	-12	1.63	41.3	-12	5.24	133	2.95	75	1.38	35	1P3702
2P3933	0.750	19.1	-12	1.87	47.6	-16	5.24	133	2.95	75	1.38	35	1P3703
5P1128	1.000	25.4	-16	1.87	47.6	-16	5.75	146	3.07	78	1.46	37	1P3703
5P1134	1.000	25.4	-16	2.13	54.0	-20	5.75	146	3.07	78	1.46	37	1P3704
2P6730	1.250	31.8	-20	2.13	54.0	-20	6.46	164	3.43	87	1.46	37	1P3704
2P1422	1.250	31.8	-20	2.50	63.5	-24	6.34	161	3.27	83	1.46	37	1P3705
5P3094	1.500	38.1	-24	2.50	63.5	-24	8.31	211	5.00	127	1.61	41	1P3705
1117660	1.500	38.1	-24	2.50	63.5	-24	9.09	231	5.84	148	2.17	55	1P3705
5P3102	1.500	38.1	-24	3.13	79.4	-32	8.74	222	5.47	139	1.81	46	1P3709
5P7959	2.000	50.8	-32	3.13	79.4	-32	10.91	277	7.09	180	2.32	59	1P3709

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

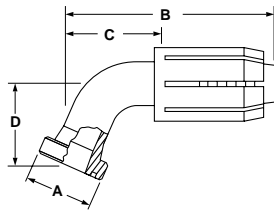


Caterpillar Flange - 60° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
2P3265	0.750	19.1	-12	1.63	41.3	-12	5.08	129	2.80	71	1.85	47	1P3702
2P3932	0.750	19.1	-12	1.87	47.6	-16	5.08	129	2.83	72	1.89	48	1P3703
5P1129	1.000	25.4	-16	1.87	47.6	-16	5.71	145	3.03	77	1.97	50	1P3703
5P1135	1.000	25.4	-16	2.13	54.0	-20	5.71	145	3.03	77	1.97	50	1P3704
2P6731	1.250	31.8	-20	2.13	54.0	-20	6.30	160	3.23	82	2.05	52	1P3704
2P1418	1.250	31.8	-20	2.50	63.5	-24	6.30	160	3.23	82	2.05	52	1P3705
5P3096	1.500	38.1	-24	2.50	63.5	-24	7.87	200	4.57	116	2.17	55	1P3705
1117661	1.500	38.1	-24	2.50	63.5	-24	8.47	215	5.22	133	2.91	74	1P3705
5P3103	1.500	38.1	-24	3.13	79.4	-32	8.23	209	4.96	126	2.52	64	1P3709
5P7956	2.000	50.8	-32	3.13	79.4	-32	10.24	260	6.42	163	3.27	83	1P3709

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

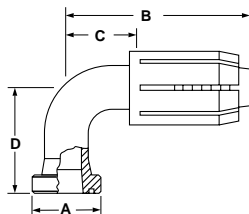
XT-5 Hose Reusable Couplings



Caterpillar Flange - 67 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
5P2604	0.750	19.1	-12	1.63	41.3	-12	5.53	141	3.26	83	2.07	53	1P3702	
5P2619	0.750	19.1	-12	1.87	47.6	-16	5.51	140	3.27	83	2.09	53	1P3703	
5P2620	1.000	25.4	-16	1.87	47.6	-16	6.14	156	3.46	88	2.24	57	1P3703	
5P2621	1.000	25.4	-16	2.13	54.0	-20	6.14	156	3.46	88	2.24	57	1P3704	
5P2599	1.250	31.8	-20	2.13	54.0	-20	6.73	171	3.66	93	2.32	59	1P3704	
5P2622	1.250	31.8	-20	2.50	63.5	-24	6.73	171	3.70	94	2.32	59	1P3705	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

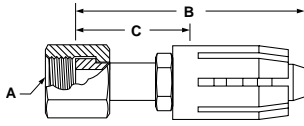


Caterpillar Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
2P3263	0.750	19.1	-12	1.63	41.3	-12	4.61	117	2.32	59	2.68	68	1P3702	
6V9994	0.750	19.1	-12	1.63	41.3	-12	4.82	123	2.55	65	4.72	120	1P3702	
2P3931	0.750	19.1	-12	1.87	47.6	-16	4.61	117	2.32	59	2.68	68	1P3703	
5P1130	1.000	25.4	-16	1.87	47.6	-16	5.20	132	2.52	64	2.91	74	1P3703	
3E6820	1.000	25.4	-16	1.87	47.6	-16	5.68	144	3.03	77	5.20	132	1P3703	
5P1136	1.000	25.4	-16	2.13	54.0	-20	5.20	132	2.52	64	2.91	74	1P3704	
2P6732	1.250	31.8	-20	2.13	54.0	-20	5.83	148	2.76	70	3.03	77	1P3704	
7X1478	1.250	31.8	-20	2.13	54.0	-20	5.83	148	2.80	71	5.91	150	1P3704	
2P1420	1.250	31.8	-20	2.50	63.5	-24	5.83	148	2.76	70	3.03	77	1P3705	
1394180	1.250	31.8	-20	2.50	63.5	-24	6.38	162	3.34	85	5.32	135	1P3705	
5P3099	1.500	38.1	-24	2.50	63.5	-24	6.69	170	3.43	87	3.43	87	1P3705	
1117662	1.500	38.1	-24	2.50	63.5	-24	6.69	170	3.44	87	4.17	106	1P3705	
5P3105	1.500	38.1	-24	3.13	79.4	-32	6.69	170	3.43	87	3.70	94	1P3709	
5P7903	2.000	50.8	-32	3.13	79.4	-32	8.19	208	4.37	111	4.88	124	1P3709	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

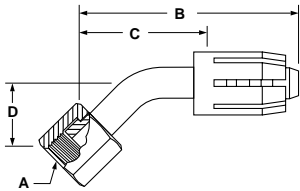
XT-5 Hose Reusable Couplings



ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	
7X1451	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	3.94	100	1.65	42	6V9746
7X1452	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	4.41	112	1.77	45	5K9090

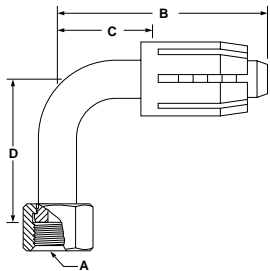
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
7X1467	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	5.59	142	3.31	84	1.02	26	6V9746
7X4814	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	6.61	168	3.98	101	1.26	32	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

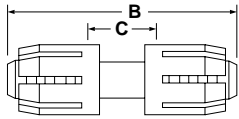


ORFS Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
7X1468	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	4.41	112	2.13	54	2.17	55	6V9746
7X1469	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	4.45	113	2.17	55	4.25	108	6V9746
7X4815	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	5.12	130	2.48	63	2.68	68	5K9090
7X4816	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	5.12	130	2.48	63	5.04	128	5K9090

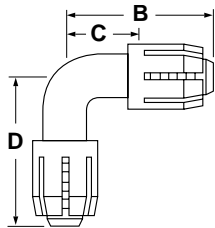
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

XT-5 Hose Reusable Couplings



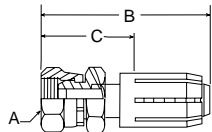
Double Collet

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in)	(mm)	(in)	(mm)
5P3153	0.750	19.1	-12	6.38	162	1.81	46
5P5000	1.000	25.4	-16	7.20	183	1.93	49
5P4937	1.250	31.8	-20	8.11	206	2.01	51
5P2825	1.500	38.1	-24	8.74	222	2.17	55



Double Collet - 90° Elbow

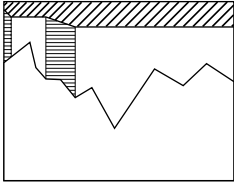
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
5P1306	0.750	19.1	-12	4.69	119	2.40	61	4.69	119
5P1307	1.000	25.4	-16	5.35	136	2.72	69	5.31	135
5P1308	1.250	31.8	-20	6.57	167	3.54	90	6.54	166
5P1312	1.500	38.1	-24	6.89	175	3.62	92	6.89	175



JIS/BSPP 60° Cone Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A JIS-BSPP THREAD SIZE		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in - TPI)	(in - TPI)	(in)	(mm)	(in)	(mm)
9X7642	1.000	25.4	-16	1 1/4 - 11	-20	5.43	138	2.80	71
9X7580	1.250	31.8	-20	1 1/4 - 11	-20	6.10	155	3.07	78

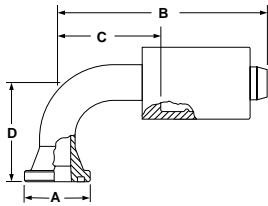
XT-5 Hose Reusable Couplings



Sleeves

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	PKG. QTY.
	(in)	(mm)		
5P1027	0.750	19.1	-12	15
5P1010	1.000	25.4	-16	1
5P0477	1.250	31.8	-20	1
5P3106	1.500	38.1	-24	1
5P7884	2.000	50.8	-32	1

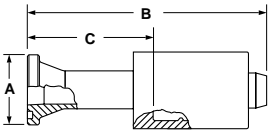
XT-5 Hose Permanent Couplings



SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1196730	0.750	19.1	-12	1.50	38.1	-12	4.46	113	2.18	55	2.11	54	4J5267

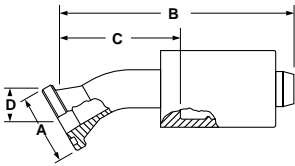
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Caterpillar Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
8T6957	0.750	19.1	-12	1.63	41.3	-12	5.75	146	3.46	88	1P3702
8T6959	0.750	19.1	-12	1.87	47.6	-16	5.75	146	3.46	88	1P3703
3E6806	1.000	25.4	-16	1.87	47.6	-16	6.18	157	3.50	89	1P3703

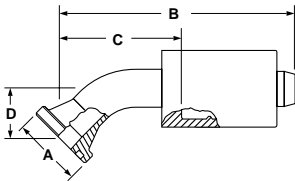
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Caterpillar Flange - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
8T6961	0.750	19.1	-12	1.63	41.3	-12	5.04	128	2.76	70	0.87	22	1P3702
8T6963	0.750	19.1	-12	1.87	47.6	-16	5.04	128	2.76	70	0.87	22	1P3703
3E6801	1.000	25.4	-16	1.87	47.6	-16	5.67	144	2.99	76	0.91	23	1P3703

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

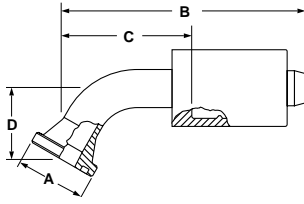


Caterpillar Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
8T6964	0.750	19.1	-12	1.63	41.3	-12	5.24	133	2.91	74	1.38	35	1P3702
8T6966	0.750	19.1	-12	1.87	47.6	-16	5.24	133	2.91	74	1.38	35	1P3703
3E6802	1.000	25.4	-16	1.87	47.6	-16	5.75	146	3.07	78	1.46	37	1P3703

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

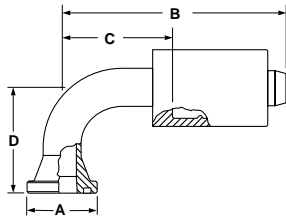
XT-5 Hose Permanent Couplings



Caterpillar Flange - 60° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
8T6967	0.750	19.1	-12	1.63	41.3	-12	5.08	129	2.80	71	1.85	47	1P3702	
8T6969	0.750	19.1	-12	1.87	47.6	-16	5.12	130	2.82	72	1.85	47	1P3703	
3E6803	1.000	25.4	-16	1.87	47.6	-16	5.71	145	3.03	77	1.97	50	1P3703	

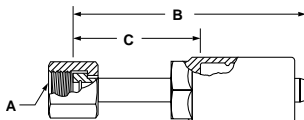
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Caterpillar Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
8T6970	0.750	19.1	-12	1.63	41.3	-12	4.61	117	2.32	59	2.68	68	1P3702	
8T6971	0.750	19.1	-12	1.63	41.3	-12	4.84	123	2.28	58	4.72	120	1P3702	
8T6972	0.750	19.1	-12	1.87	47.6	-16	4.61	117	2.32	59	2.68	68	1P3703	
3E6804	1.000	25.4	-16	1.87	47.6	-16	5.20	132	2.52	64	2.91	74	1P3703	
3E6805	1.000	25.4	-16	1.87	47.6	-16	5.67	144	3.03	77	5.20	132	1P3703	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

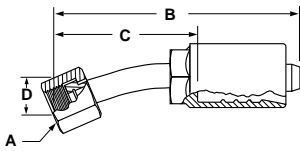


ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	
7X1441	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	3.94	100	1.65	42	6V9746
7X1437	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	4.41	112	1.77	45	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

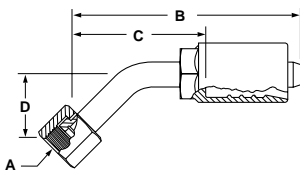
XT-5 Hose Permanent Couplings



ORFS Female Swivel - 15° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242328	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	5.83	148	3.54	90	0.31	8	6V9746

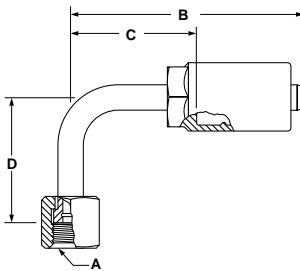
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
7X4811	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	5.59	142	3.31	84	1.02	26	6V9746
7X4817	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	6.61	168	3.98	101	1.26	32	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 90° Elbow

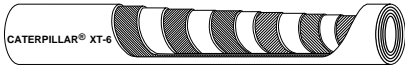
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
7X4812	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	4.41	112	2.13	54	2.17	55	6V9746
7X4813	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	4.45	113	2.17	55	4.25	108	6V9746
7X4818	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	5.12	130	2.44	62	2.68	68	5K9090
7X4819	1.000	25.4	-16	1 ⁷ / ₁₆ - 12	-16	5.12	130	2.44	62	5.04	128	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

XT-6 Hose and Couplings

- XT-6 Hose (1136) 76
 - XT-6 Hose Reusable Couplings
 - Caterpillar Flange 77
 - Double Collet 78
 - Sleeves 79
 - XT-6 Hose Permanent Couplings
 - Caterpillar Flange 80
 - ORFS 81
 - Double Collet 82

XT-6 Hose



XT-6 Hose (1136)**

Exceeds the requirements of SAE 100R15.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
6V1153	0.375	9.5	-6	0.89	22.6	24,000	168,000	6,000	42,000	5.98	152
6V1154	0.500	12.7	-8	0.98	25.0	24,000	168,000	6,000	42,000	7.99	203
5P8813	0.750	19.1	-12	1.38	35.0	24,000	168,000	6,000	42,000	10.51	267
5P8284	1.000	25.4	-16	1.61	41.0	24,000	168,000	6,000	42,000	12.99	330
5P8285	1.250	31.8	-20	1.97	50.0	24,000	168,000	6,000	42,000	17.52	445

Construction: Fabric reinforced, synthetic rubber tube; six piles of spirally-wrapped high tensile steel wire reinforcement, separated by layers of synthetic rubber. Oil, weather, and abrasion resistant synthetic rubber outer cover.

Application: Extremely high pressure service with petroleum base hydraulic fluids. MSHA approved cover.

Temperature Range: -40° F to +250° F (-40° C to +121° C)

Couplings: Collet-type reusable, skive type - [pages 77-79](#). Crimp-on permanent, skive type - [pages 80-82](#). For related assembly equipment and tooling, see [pages 277-310](#).

NOTE: Hose cover needs to be removed before attaching couplings.

XT-6 Hose Coupling Features and Benefits

XT-6 Hose Couplings have the same advantages found with the XT-5 and XT-3 Hose Couplings, plus a heavier stem and head construction to handle 6000 psi (42,000 kPa) applications.

* CENTERLINE OF HOSE

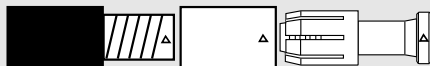
** SOLD BY THE CENTIMETER

warning!

TO AVOID SERIOUS PERSONAL INJURY TO THE OPERATOR AND EXTENSIVE DAMAGE TO THE EQUIPMENT, THE FOLLOWING PROCEDURES MUST BE OBSERVED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

① ALWAYS match hose, stem assemblies and sleeves according to markings (Δ / + / UHP).

② NEVER interchange XT-3 hose, stem assemblies and sleeves marked with a triangle (Δ) with XT-5 hose, stem assemblies and sleeves marked with a plus (+) or XT-6 hose, stem assemblies and sleeves marked with UHP.



XT-3 HOSE

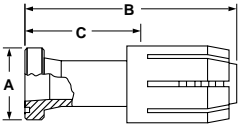


XT-5 HOSE



XT-6 HOSE

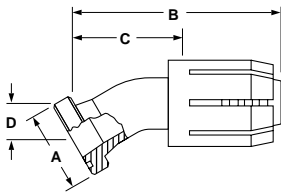
XT-6 Hose Reusable Couplings



Caterpillar Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
5P3136	0.750	19.1	-12	1.63	41.3	-12	5.75	146	3.23	82	1P3702
5P8235	0.750	19.1	-12	1.87	47.6	-16	5.75	146	3.23	82	1P3703
5P3154	1.000	25.4	-16	1.87	47.6	-16	6.18	157	3.54	90	1P3703
5P8072	1.000	25.4	-16	2.13	54.0	-20	6.18	157	3.54	90	1P3704
6V5736	1.250	31.8	-20	2.13	54.0	-20	5.35	136	2.36	60	1P3704
5P6450	1.250	31.8	-20	2.13	54.0	-20	6.46	164	3.46	88	1P3704
5P3140	1.250	31.8	-20	2.50	63.5	-24	6.46	164	3.46	88	1P3705

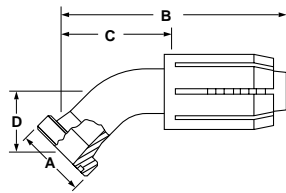
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Caterpillar Flange - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
5P8287	0.750	19.1	-12	1.63	41.3	-12	5.51	140	2.99	76	0.87	22	1P3702
5P8526	0.750	19.1	-12	1.87	47.6	-16	5.51	140	2.99	76	0.87	22	1P3703
5P8229	1.000	25.4	-16	1.87	47.6	-16	6.34	161	5.39	137	1.26	32	1P3703
5P8213	1.000	25.4	-16	2.13	54.0	-20	6.34	161	3.70	94	0.98	25	1P3704
5P3158	1.250	31.8	-20	2.13	54.0	-20	6.97	177	3.98	101	1.06	27	1P3704
5P8160	1.250	31.8	-20	2.50	63.5	-24	7.99	203	5.00	127	1.06	27	1P3705

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

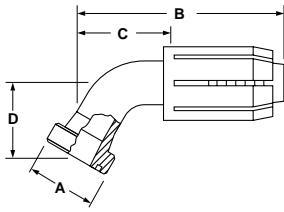


Caterpillar Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
5P8478	0.750	19.1	-12	1.63	41.3	-12	6.57	167	4.06	103	1.38	35	1P3702
5P8532	0.750	19.1	-12	1.87	47.6	-16	6.61	168	4.13	105	1.38	35	1P3703
5P8181	1.000	25.4	-16	1.87	47.6	-16	7.72	196	5.04	128	1.57	40	1P3703
5P8070	1.000	25.4	-16	2.13	54.0	-20	7.72	196	5.04	128	1.57	40	1P3704
5P3159	1.250	31.8	-20	2.13	54.0	-20	7.64	194	4.65	118	1.69	43	1P3704
5P8174	1.250	31.8	-20	2.50	63.5	-24	7.64	194	4.65	118	1.69	43	1P3705

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

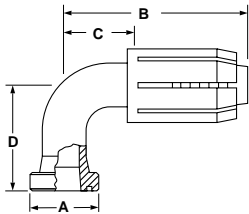
XT-6 Hose Reusable Couplings



Caterpillar Flange - 60° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
5P8479	0.750	19.1	-12	1.63	41.3	-12	6.26	154	3.74	95	1.85	47	1P3702
5P8533	0.750	19.1	-12	1.87	47.6	-16	6.26	159	3.74	95	1.85	47	1P3703
5P8231	1.000	25.4	-16	1.87	47.6	-16	7.22	184	4.57	116	2.17	55	1P3703
5P8218	1.000	25.4	-16	2.13	54.0	-20	6.85	174	4.17	106	2.17	55	1P3704
5P3155	1.250	31.8	-20	2.13	54.0	-20	8.70	221	5.71	145	2.36	60	1P3704
5P8175	1.250	31.8	-20	2.50	63.5	-24	8.90	226	5.91	150	2.36	60	1P3705

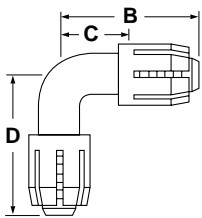
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Caterpillar Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
5P8483	0.750	19.1	-12	1.63	41.3	-12	5.04	128	2.56	65	2.68	68	1P3702
9X7568	0.750	19.1	-12	1.63	41.3	-12	5.04	128	2.52	64	5.04	128	1P3702
7X1477	0.750	19.1	-12	1.84	46.7	-16	5.04	128	2.56	65	2.68	68	1P3703
9X7569	0.750	19.1	-12	1.87	47.6	-16	5.04	128	2.52	64	5.04	128	1P3703
5P8183	1.000	25.4	-16	1.87	47.6	-16	5.98	152	3.31	84	3.27	83	1P3703
8T7117	1.000	25.4	-16	1.87	47.6	-16	5.98	152	3.31	84	5.87	149	1P3703
5P8071	1.000	25.4	-16	2.13	54.0	-20	5.98	152	3.31	84	3.27	83	1P3704
8T7118	1.000	25.4	-16	2.13	54.0	-20	5.98	152	3.31	84	5.87	149	1P3704
5P7860	1.250	31.8	-20	2.13	54.0	-20	7.64	194	4.65	118	3.15	80	1P3704
5P9674	1.250	31.8	-20	2.13	54.0	-20	7.17	182	4.17	106	3.62	92	1P3704
5P8141	1.250	31.8	-20	2.50	63.5	-24	7.64	194	4.65	118	3.39	86	1P3705

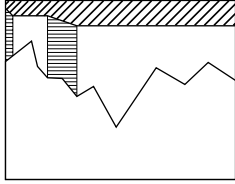
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Double Collet - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
9X7567	0.750	19.1	-12	5.12	130	2.60	66	5.12	130
8T9106	1.000	25.4	-16	5.91	150	3.26	83	5.91	150

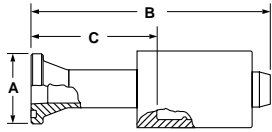
XT-6 Hose Reusable Couplings



Sleeves

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	PKG. QTY.
	(in)	(mm)		
5P3138	0.750	19.1	-12	1
5P1474	1.000	25.4	-16	1
5P6449	1.250	31.8	-20	1

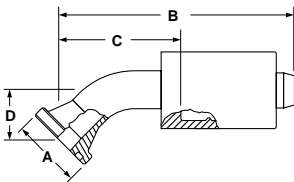
XT-6 Hose Permanent Couplings



Caterpillar Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)			
8T7103	0.750	19.1	-12	1.63	41.3	-12	5.75	146	3.23	82	1P3702	
8T7107	0.750	19.1	-12	1.87	47.6	-16	5.75	146	3.23	82	1P3703	

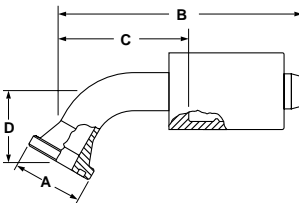
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Caterpillar Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
8T7104	0.750	19.1	-12	1.63	41.3	-12	6.57	167	4.06	103	1.38	35	1P3702	
8T7108	0.750	19.1	-12	1.87	47.6	-16	6.61	168	4.13	105	1.38	35	1P3703	

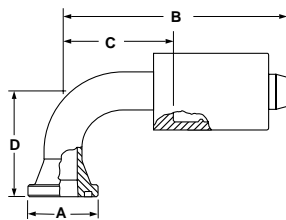
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Caterpillar Flange - 60° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1242329	0.750	19.1	-12	1.63	41.3	-12	6.26	159	3.74	95	1.85	47	1P3702	
1242418	0.750	19.1	-12	1.87	47.6	-16	6.26	159	3.74	95	1.85	47	1P3703	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

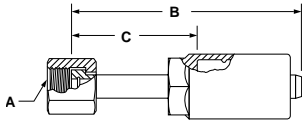


Caterpillar Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		D-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
8T7105	0.750	19.1	-12	1.63	41.3	-12	5.08	129	2.56	65	2.68	68	1P3702	
8T7106	0.750	19.1	-12	1.63	41.3	-12	5.08	129	2.56	65	5.04	128	1P3702	
8T7109	0.750	19.1	-12	1.87	47.6	-16	5.08	129	2.56	65	2.68	68	1P3703	
8T7110	0.750	19.1	-12	1.87	47.6	-16	5.08	129	2.56	65	5.04	128	1P3703	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

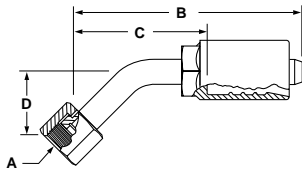
XT-6 Hose Permanent Couplings



ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
8T7095	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	3.62	92	1.50	38	6V8397
8T7099	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.62	92	1.50	38	6V8398
9X7593	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	4.57	116	2.05	52	6V9746

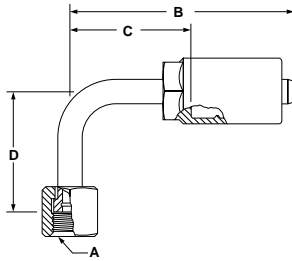
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
8T7096	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	4.49	114	2.32	59	0.71	18	6V8397
8T7100	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	4.88	124	2.76	70	0.87	22	6V8398
9X7594	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	6.22	158	3.74	95	1.02	26	6V9746

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

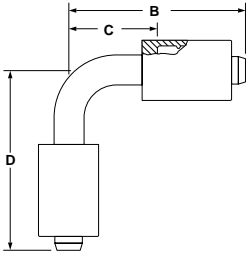


ORFS Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
8T7097	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	3.66	93	1.54	39	1.38	35	6V8397
8T7098	0.375	9.5	-6	1 ¹ / ₁₆ - 16	-6	3.66	93	1.54	39	3.11	79	6V8397
8T7101	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.86	98	1.73	44	1.73	44	6V8398
8T7102	0.500	12.7	-8	1 ³ / ₁₆ - 16	-8	3.86	98	1.73	44	3.62	92	6V8398
9X7595	0.750	19.1	-12	1 ³ / ₁₆ - 12	-12	5.08	129	2.56	65	2.17	55	6V9746

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

XT-6 Hose Permanent Couplings



Double Collet - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
8C5243	0.750	19.1	-12	5.12	130	2.60	66	5.12	130

Caterpillar Hose and Couplings (716, 294, 844)

Caterpillar One-wire Braid Hose (716)	84
Caterpillar Two-wire Braid Hose (294)	85
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 = Product Addition

Caterpillar Hose (716, 294, 844)



One-Wire Braid Hose (716)**

Exceeds the requirements of SAE 100R1 Type AT. Meets European standards for dynamic working pressures and temperatures of DIN 20022 1SN.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*		DIN 20022 1SN MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)	(psi)	(bar)
1226867	0.250	6.4	-4	0.56	14.1	10,857	76,000	2,714	19,000	4.02	102	3263	225
1226869	0.375	9.5	-6	0.71	18.1	8,571	60,000	2,143	15,000	5.00	127	2610	180
1226870	0.500	12.7	-8	0.85	21.5	8,000	56,000	2,000	14,000	7.01	178	2320	160
1226871	0.625	15.9	-10	0.97	24.7	5,714	40,000	1,429	10,000	7.99	203	1885	130
1226872	0.750	19.1	-12	1.13	28.6	4,857	34,000	1,214	8,500	9.49	241	1523	105
1226873	1.000	25.4	-16	1.44	36.6	4,000	28,000	1,000	7,000	12.01	305	1276	88
1226874	1.250	31.8	-20	1.76	44.8	2,571	18,000	643	4,500	16.50	419	914	63
1226875	1.500	38.1	-24	2.05	52.0	2,000	14,000	500	3,500	20.00	508	725	50
1226876	2.000	50.8	-32	2.59	65.9	1,429	10,000	357	2,500	25.00	635	580	40

Construction: Special high temperature synthetic rubber tube; single high tensile steel wire braid reinforcement. Oil, weather, and abrasion resistant synthetic rubber outer cover.

Application: Medium pressure service with high temperature petroleum base hydraulic fluids, hot oil, grease, lubricants, and crude oils. MSHA approved cover. U.S. Coast Guard 46CFR56.60-25C approved.

Temperature Range: -40° F to +275° F (-40° C to +135° C) for petroleum based hydraulic fluids.

-40° F to +275° F (-40° C to +135° C) for petroleum based DIN hydraulic fluids.

+185° F Max (+85° C Max) for air, water, or water-glycol.

-40° to +158° F (-40° C to +70° C) for all other applications.

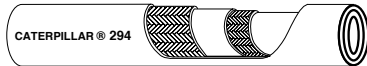
Couplings: Crimp-on permanent, non-skive type - [pages 87-114](#). For related assembly equipment and tooling, see [pages 277-310](#).

Note: Hose cover does not need to be removed before attaching couplings.

* CENTERLINE OF HOSE

** SOLD BY THE INCH

Caterpillar Hose (716, 294, 844)



Two-Wire Braid Hose (294)**

Exceeds the requirements of SAE 100R2 Type AT. Meets European standards for dynamic working pressures and temperatures of DIN 20022 2SN.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*		DIN 20022 2SN MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)	(psi)	(bar)
1226887	0.250	6.4	-4	0.59	14.9	20,000	140,000	5,000	35,000	4.02	102	5800	400
1226888	0.312	7.9	-5	0.65	16.6	17,143	120,000	4,286	30,000	4.49	114	5075	350
1226889	0.375	9.5	-6	0.74	18.9	16,000	112,000	4,000	28,000	5.00	127	4785	330
1226890	0.500	12.7	-8	0.88	22.3	13,714	96,000	3,429	24,000	7.01	178	3988	275
1247115	0.625	15.9	-10	1.00	25.5	10,857	76,000	2,714	19,000	7.99	203	3625	250
1226891	0.750	19.1	-12	1.16	29.5	8,571	60,000	2,143	15,000	9.49	241	3118	215
1226892	1.000	25.4	-16	1.49	37.8	8,000	56,000	2,000	14,000	12.01	305	2393	165
1226893	1.250	31.8	-20	1.89	48.0	6,286	44,000	1,571	11,000	16.50	419	1813	125
1226894	1.500	38.1	-24	2.15	54.5	4,857	34,000	1,214	8,500	20.00	508	1305	90
1226895	2.000	50.8	-32	2.64	67.1	4,286	30,000	1,071	7,500	25.00	635	1160	80

Construction: Synthetic rubber tube; two braids of special high tensile steel wire reinforcement separated by synthetic rubber layer. Oil, weather, and abrasion resistant synthetic rubber outer cover.

Application: High pressure service with petroleum base hydraulic fluids, water-glycol and water-oil fire resistant hydraulic fluids, hot oil, grease, lubricants, crude and fuel oils, air and water. For air or gas application above 250 psi, the cover should be pin pricked. MSHA approved cover. U.S. Coast Guard 46CFR56.60-25C approved.

Temperature Range: -40° F to +190° F (-40° C to +88° C) for water-glycol and water-oil fire resistant hydraulic fluids, hot oil, grease, lubricants, crude and fuel oils.

+150° F Max (+66° C Max) for air and water.

-40° F to +212° F (-40° C to +100° C) for all other applications.

Couplings: Crimp-on permanent, non-skive type [pages 87-114](#). For related assembly equipment and tooling, see [pages 277-310](#).

Note: Hose cover does not need to be removed before attaching couplings.

* CENTERLINE OF HOSE

** SOLD BY THE INCH

Caterpillar Hose (716, 294, 844)



Hydraulic Suction Hose (844)**

Exceeds the requirements of SAE 100R4.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
1226905	0.750	19.1	-12	1.37	34.9	1,143	8,000	286	2,000	5.00	127
1226906	1.000	25.4	-16	1.63	41.3	971	6,800	243	1,700	5.98	152
1226907	1.250	31.8	-20	2.00	50.8	800	5,600	200	1,400	7.99	203
1226908	1.500	38.1	-24	2.25	57.2	571	4,000	143	1,000	10.00	254
1226909	2.000	50.8	-32	2.75	69.9	400	2,800	100	700	12.01	305

Construction: Special high temperature synthetic rubber tube; two textile fiber braids combined with wire spiraled throughout the textile reinforcement to prevent collapse under vacuum. Oil, weather, and abrasion resistant synthetic rubber outer cover.

Application: Hydraulic system suction or return lines with petroleum base hydraulic fluids. MSHA approved cover. U.S. Coast Guard 46CFR56.60-25C approved.

Temperature Range: -40° F to +275° F (-40° C to +135° C)

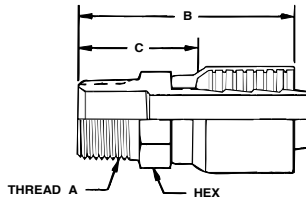
Couplings: Crimp-on permanent, non-skive type - [pages 87-114](#). For related assembly equipment and tooling, see [pages 277-310](#).

Note: Hose cover does not need to be removed before attaching couplings.

* CENTERLINE OF HOSE

** SOLD BY THE INCH

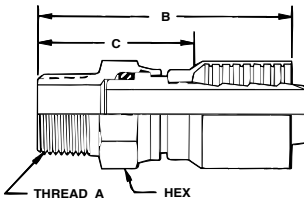
Caterpillar Hose Couplings (716, 294, 844)



Male NPTF Pipe

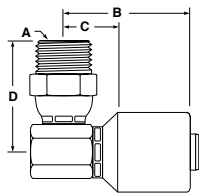
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1241890	0.250	6.4	-4	1/8 - 27	-2	1.61	41	0.79	20
1241891	0.250	6.4	-4	1/4 - 18	-4	1.89	48	1.06	27
1241892	0.250	6.4	-4	3/8 - 18	-6	1.89	48	1.06	27
1241894	0.250	6.4	-4	1/2 - 14	-8	2.13	54	1.30	33
1241895	0.312	7.9	-5	1/4 - 18	-4	2.17	55	1.14	29
1241896	0.375	9.5	-6	1/4 - 18	-4	2.13	54	1.14	29
1241897	0.375	9.5	-6	3/8 - 18	-6	2.17	55	1.14	29
1241898	0.375	9.5	-6	1/2 - 14	-8	2.32	59	1.34	34
1241899	0.500	12.7	-8	3/8 - 18	-6	2.36	60	1.38	35
1241900	0.500	12.7	-8	1/2 - 14	-8	2.36	60	1.38	35
1241901	0.500	12.7	-8	3/4 - 14	-12	2.40	61	1.42	36
1241902	0.625	15.9	-10	3/8 - 18	-6	2.20	56	1.22	31
1241903	0.625	15.9	-10	1/2 - 14	-8	2.40	61	1.42	36
1241904	0.625	15.9	-10	3/4 - 14	-12	2.48	63	1.50	38
1241905	0.750	19.1	-12	1/2 - 14	-8	2.60	66	1.38	35
1241906	0.750	19.1	-12	3/4 - 14	-12	2.68	68	1.46	37
1241907	0.750	19.1	-12	1 - 11 1/2	-16	2.99	76	1.77	45
1241908	1.000	25.4	-16	3/4 - 14	-12	3.03	77	1.54	39
1241909	1.000	25.4	-16	1 - 11 1/2	-16	3.35	85	1.85	47
1241910	1.250	31.8	-20	1 1/4 - 11 1/2	-20	3.70	94	2.09	53
1241911	1.500	38.1	-24	1 1/2 - 11 1/2	-24	4.21	107	2.20	56
1241912	2.000	50.8	-32	2 - 11 1/2	-32	4.72	120	2.56	65

Caterpillar Hose Couplings (716, 294, 844)



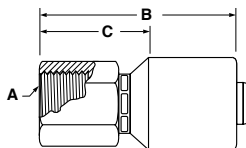
Male NPTF Pipe Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1241913	0.250	6.4	-4	1/8 - 27	-2	2.20	56	1.38	35
1241914	0.250	6.4	-4	1/4 - 18	-4	2.36	60	1.54	39
1241915	0.250	6.4	-4	3/8 - 18	-6	2.36	60	1.54	39
1241916	0.375	9.5	-6	1/4 - 18	-4	2.64	67	1.65	42
1241917	0.375	9.5	-6	3/8 - 18	-6	2.64	67	1.61	41
1241918	0.375	9.5	-6	1/2 - 14	-8	2.91	74	1.93	49
1241919	0.500	12.7	-8	3/8 - 18	-6	2.64	67	1.65	42
1241920	0.500	12.7	-8	1/2 - 14	-8	2.91	74	1.93	49
1241921	0.750	19.1	-12	3/4 - 14	-12	3.50	89	2.28	58
1241922	1.000	25.4	-16	1 - 11 1/2	-16	3.90	99	2.36	60



Male NPTF Pipe Swivel - 90° Elbow

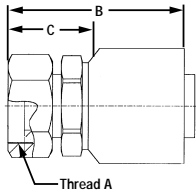
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1241923	0.250	6.4	-4	1/4 - 18	-4	1.57	40	0.75	19	1.65	42
1540052	0.375	9.5	-6	3/8 - 18	-6	1.85	47	0.87	22	1.77	45
1540054	0.500	12.7	-8	1/2 - 14	-8	2.01	51	1.02	26	2.13	54
1540055	0.750	19.1	-12	3/4 - 14	-12	2.28	58	1.30	33	2.60	66



Female NPTF Pipe

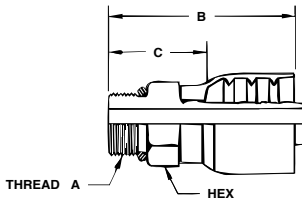
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1241924	0.250	6.4	-4	1/8 - 27	-2	1.61	41	0.79	20
1241925	0.250	6.4	-4	1/4 - 18	-4	1.93	49	1.10	28
1540057	0.375	9.5	-6	1/4 - 18	-4	2.13	54	1.14	29
1241926	0.375	9.5	-6	3/8 - 18	-6	2.17	55	1.14	29
1540058	0.500	12.7	-8	3/8 - 18	-6	2.17	55	1.18	30
1241927	0.500	12.7	-8	1/2 - 14	-8	2.40	61	1.42	36
1540059	0.750	19.1	-12	3/4 - 14	-12	2.60	66	1.38	35

Caterpillar Hose Couplings (716, 294, 844)



Female NPSM Pipe Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1540060	0.250	6.4	-4	1/8 - 27	-2	1.61	41	0.79	20
1540061	0.250	6.4	-4	1/4 - 18	-4	1.69	43	0.87	22
1540062	0.375	9.5	-6	3/8 - 18	-6	1.89	48	0.91	23
1540063	0.500	12.7	-8	1/2 - 14	-8	2.01	51	0.98	25
1540064	0.750	19.1	-12	3/4 - 14	-12	2.44	62	1.22	31
1241958	1.000	25.4	-16	1 - 11 1/2	-16	2.72	69	1.18	30
1540066	1.250	31.8	-20	1 1/4 - 11 1/2	-20	2.91	74	1.34	34

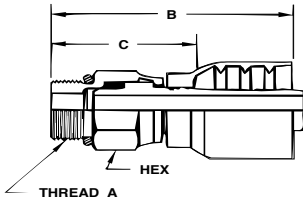


Straight Thread O-Ring Boss

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
1241928	0.250	6.4	-4	7/16 - 20	-4	1.65	42	0.83	21	3J7354
1471719	0.250	6.4	-4	9/16 - 18	-6	1.69	43	0.87	22	3J1907
1241929	0.375	9.5	-6	9/16 - 18	-6	1.93	49	0.94	24	3J1907
1241930	0.375	9.5	-6	3/4 - 16	-8	2.09	53	1.10	28	3K0360
1241931	0.500	12.7	-8	3/4 - 16	-8	2.13	54	1.10	28	3K0360
1241932	0.500	12.7	-8	7/8 - 14	-10	2.09	53	1.10	28	2M9780
1471698	0.500	12.7	-8	1 1/16 - 12	-12	2.28	58	1.26	32	3D2824
1471699	0.625	15.9	-10	7/8 - 14	-10	2.17	55	1.14	29	2M9780
1471720	0.625	15.9	-10	1 1/16 - 12	-12	2.32	59	1.34	34	3D2824
1241933	0.750	19.1	-12	1 1/16 - 12	-12	2.52	64	1.30	33	3D2824
1471700	1.000	25.4	-16	1 5/16 - 12	-16	2.95	75	1.46	37	7M8485

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

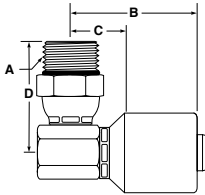
Caterpillar Hose Couplings (716, 294, 844)



Straight Thread O-Ring Boss Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
1241934	0.375	9.5	-6	9/16 - 18	-6	2.64	67	1.65	42	3J1907
1471701	0.375	9.5	-6	3/4 - 16	-8	2.52	64	1.50	38	3K0360
1471702	0.500	12.7	-8	3/4 - 16	-8	2.52	64	1.50	38	3K0360
1471703	0.500	12.7	-8	7/8 - 14	-10	2.68	68	1.65	42	2M9780
1540067	0.750	19.1	-12	1 1/16 - 12	-12	3.23	82	2.01	51	3D2824

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

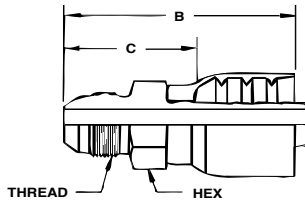


Straight Thread O-Ring Boss Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
1241935	0.375	9.5	-6	9/16 - 18	-6	1.85	47	0.87	22	1.77	45	3J1907
1540068	0.500	12.7	-8	3/4 - 16	-8	1.97	50	0.94	24	1.69	43	3K0360

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

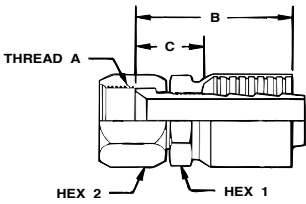
Caterpillar Hose Couplings (716, 294, 844)



JIC 37° Male

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1241936	0.250	6.4	-4	7/16 - 20	-4	1.85	47	1.02	26
1241937	0.250	6.4	-4	1/2 - 20	-5	1.81	46	0.94	24
1241938	0.250	6.4	-4	9/16 - 18	-6	1.93	49	1.10	28
1241939	0.312	7.9	-5	9/16 - 18	-6	2.17	55	1.14	29
1540069	0.375	9.5	-6	1/2 - 20	-5	2.05	52	1.02	26
1241940	0.375	9.5	-6	9/16 - 18	-6	2.17	55	1.14	29
1241941	0.375	9.5	-6	3/4 - 16	-8	2.32	59	1.34	34
1241942	0.375	9.5	-6	7/8 - 14	-10	2.28	58	1.30	33
1241943	0.500	12.7	-8	3/4 - 16	-8	2.32	59	1.34	34
1241944	0.500	12.7	-8	7/8 - 14	-10	2.28	58	1.30	33
1241945	0.500	12.7	-8	1 1/16 - 12	-12	2.48	63	1.50	38
1241946	0.625	15.9	-10	7/8 - 14	-10	2.40	61	1.42	36
1241947	0.625	15.9	-10	1 1/16 - 12	-12	2.52	64	1.54	39
1241948	0.750	19.1	-12	1 1/16 - 12	-12	2.72	69	1.50	38
1540070	0.750	19.1	-12	1 3/16 - 12	-14	2.83	72	1.61	41
1540071	0.750	19.1	-12	1 5/16 - 12	-16	2.95	75	1.73	44
1241949	1.000	25.4	-16	1 5/16 - 12	-16	3.31	84	1.81	46
1242336	1.250	31.8	-20	1 5/8 - 12	-20	3.62	92	2.05	52

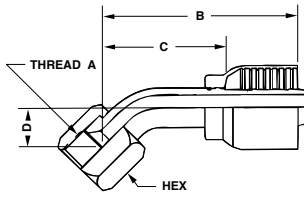
Caterpillar Hose Couplings (716, 294, 844)



JIC 37° Female Swivel

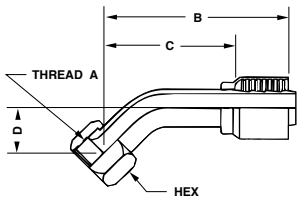
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1241950	0.250	6.4	-4	7/16 - 20	-4	1.46	37	0.63	16
1241951	0.250	6.4	-4	1/2 - 20	-5	1.61	41	0.79	20
1241952	0.250	6.4	-4	9/16 - 18	-6	1.65	42	0.83	21
1241953	0.312	7.9	-5	9/16 - 18	-6	1.85	47	0.83	21
1241954	0.375	9.5	-6	7/16 - 20	-4	1.77	45	0.79	20
1241955	0.375	9.5	-6	1/2 - 20	-5	1.85	47	0.83	21
1241956	0.375	9.5	-6	9/16 - 18	-6	1.85	47	0.87	22
1241957	0.375	9.5	-6	3/4 - 16	-8	1.89	48	0.87	22
1241960	0.375	9.5	-6	7/8 - 14	-10	1.93	49	0.94	24
1241959	0.500	12.7	-8	9/16 - 18	-6	1.85	47	0.87	22
1241961	0.500	12.7	-8	3/4 - 16	-8	1.89	48	0.91	23
1241962	0.500	12.7	-8	7/8 - 14	-10	1.93	49	0.94	24
1241963	0.500	12.7	-8	1 1/16 - 12	-12	1.93	49	0.94	24
1241964	0.625	15.9	-10	3/4 - 16	-8	1.93	49	0.94	24
1241965	0.625	15.9	-10	7/8 - 14	-10	2.01	51	1.02	26
1241966	0.625	15.9	-10	1 1/16 - 12	-12	1.97	50	0.98	25
1241967	0.750	19.1	-12	3/4 - 16	-8	2.32	59	1.10	28
1241968	0.750	19.1	-12	7/8 - 14	-10	2.28	58	1.10	28
1241969	0.750	19.1	-12	1 1/16 - 12	-12	2.28	58	1.10	28
1241970	0.750	19.1	-12	1 3/16 - 12	-14	2.36	60	1.14	29
1241971	0.750	19.1	-12	1 5/16 - 12	-16	2.36	60	1.14	29
1241972	1.000	25.4	-16	1 1/16 - 12	-12	2.68	68	1.18	30
1241973	1.000	25.4	-16	1 5/16 - 12	-16	2.68	68	1.14	29
1241974	1.000	25.4	-16	1 5/8 - 12	-20	2.72	69	1.22	31
1241975	1.250	31.8	-20	1 5/8 - 12	-20	2.91	74	1.34	34
1241976	1.500	38.1	-24	1 7/8 - 12	-24	3.78	96	1.77	45
1241977	2.000	50.8	-32	2 1/2 - 12	-32	4.37	111	2.20	56

Caterpillar Hose Couplings (716, 294, 844)



JIC 37° Female Swivel - 45° Elbow - Short

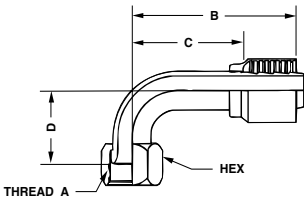
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
1241978	0.250	6.4	-4	7/16 - 20	-4	1.93	49	1.10	28	0.31	8
1241979	0.250	6.4	-4	9/16 - 18	-6	2.01	51	1.18	30	0.39	10
1241980	0.375	9.5	-6	9/16 - 18	-6	2.36	60	1.38	35	0.39	10
1241981	0.375	9.5	-6	3/4 - 16	-8	2.56	65	1.54	39	0.55	14
1241982	0.500	12.7	-8	3/4 - 16	-8	2.72	69	1.73	44	0.55	14
1241983	0.500	12.7	-8	7/8 - 14	-10	2.83	72	1.81	46	0.63	16
1241984	0.625	15.9	-10	7/8 - 14	-10	3.03	77	2.05	52	0.63	16
1241985	0.625	15.9	-10	1 1/16 - 12	-12	3.19	81	2.20	56	0.79	20
1241986	0.750	19.1	-12	1 1/16 - 12	-12	3.46	88	2.24	57	0.79	20
1241987	1.000	25.4	-16	1 5/16 - 12	-16	4.76	121	3.27	83	0.91	23
1241988	1.250	31.8	-20	1 5/8 - 12	-20	5.39	137	3.82	97	1.14	29



JIC 37° Female Swivel - 45° Elbow - Long

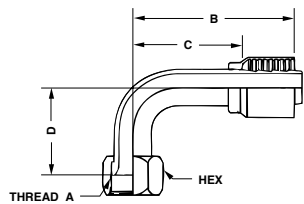
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
1241989	0.250	6.4	-4	7/16 - 20	-4	2.09	53	1.26	32	0.47	12
1241990	0.250	6.4	-4	9/16 - 18	-6	2.17	55	1.34	34	0.55	14
1241991	0.375	9.5	-6	9/16 - 18	-6	2.60	66	1.57	40	0.59	15
1241992	0.375	9.5	-6	3/4 - 16	-8	2.68	68	1.69	43	0.71	18
1241993	0.500	12.7	-8	3/4 - 16	-8	2.87	73	1.89	48	0.71	18
1241994	0.500	12.7	-8	7/8 - 14	-10	3.03	77	2.05	52	0.87	22
1241995	0.625	15.9	-10	7/8 - 14	-10	3.31	84	2.28	58	0.87	22
1241996	0.625	15.9	-10	1 1/16 - 12	-12	3.46	88	2.48	63	1.06	27
1241997	0.750	19.1	-12	1 1/16 - 12	-12	3.76	100	2.56	65	1.06	27
1241998	1.000	25.4	-16	1 5/16 - 12	-16	4.76	121	3.27	83	1.14	29
1241999	1.250	31.8	-20	1 5/8 - 12	-20	5.71	145	4.09	104	1.46	37

Caterpillar Hose Couplings (716, 294, 844)



JIC 37° Female Swivel - 90° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1242000	0.250	6.4	-4	7/16 - 20	-4	1.81	46	0.98	25	0.71	18
1242001	0.250	6.4	-4	1/2 - 20	-5	1.93	49	1.10	28	0.79	20
1242002	0.250	6.4	-4	9/16 - 18	-6	1.81	46	0.98	25	0.87	22
1242003	0.312	7.9	-5	9/16 - 18	-6	2.20	56	1.18	30	0.87	22
1242004	0.375	9.5	-6	7/16 - 20	-4	2.17	55	1.18	30	0.71	18
1242005	0.375	9.5	-6	9/16 - 18	-6	2.28	58	1.30	33	0.87	22
1242006	0.375	9.5	-6	3/4 - 16	-8	2.28	58	1.30	33	1.10	28
1242171	0.500	12.7	-8	9/16 - 18	-6	2.36	60	1.34	34	0.87	22
1242007	0.500	12.7	-8	3/4 - 16	-8	2.52	64	1.54	39	1.10	28
1242008	0.500	12.7	-8	7/8 - 14	-10	2.52	64	1.54	39	1.22	31
1242009	0.500	12.7	-8	1 1/16 - 12	-12	2.52	64	1.54	39	1.81	46
1242010	0.625	15.9	-10	7/8 - 14	-10	2.83	72	1.85	47	1.22	31
1242011	0.625	15.9	-10	1 1/16 - 12	-12	2.83	72	1.85	47	1.81	46
1242012	0.750	19.1	-12	1 1/16 - 12	-12	3.31	84	2.09	53	1.81	46
1471706	0.750	19.1	-12	1 5/16 - 12	-16	3.31	84	2.09	53	2.13	54
1242013	1.000	25.4	-16	1 5/16 - 12	-16	4.65	118	3.11	79	2.13	54
1242014	1.250	31.8	-20	1 5/8 - 12	-20	5.20	132	3.62	92	2.60	66

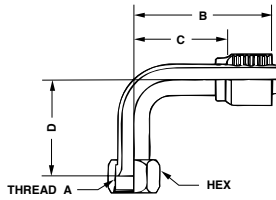


JIC 37° Female Swivel - 90° Elbow - Medium

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1242015	0.250	6.4	-4	7/16 - 20	-4	1.81	46	0.98	25	0.87	22
1242016	0.250	6.4	-4	9/16 - 18	-6	1.81	46	0.98	25	1.10	28
1242017	0.375	9.5	-6	9/16 - 18	-6	2.28	58	1.30	33	1.10	28
1242018	0.375	9.5	-6	3/4 - 16	-8	2.28	58	1.30	33	1.38	35
1242019	0.500	12.7	-8	3/4 - 16	-8	2.52	64	1.54	39	1.38	35
1242020	0.500	12.7	-8	7/8 - 14	-10	2.52	64	1.54	39	1.73	44
1242021	0.625	15.9	-10	7/8 - 14	-10	2.83	72	1.85	47	1.73	44
1242022	0.625	15.9	-10	1 1/16 - 12	-12	2.83	72	1.85	47	2.05	52
1242023	0.750	19.1	-12	1 1/16 - 12	-12	3.31	84	2.09	53	2.05	52
1242024	1.000	25.4	-16	1 5/16 - 12	-16	4.49	114	2.99	76	2.52	64
1471707	1.250	31.8	-20	1 5/8 - 12	-20	5.08	129	3.46	88	2.99	76

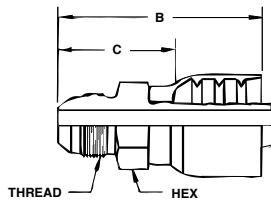


Caterpillar Hose Couplings (716, 294, 844)



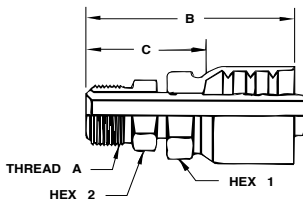
JIC 37° Female Swivel - 90° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1242025	0.250	6.4	-4	7/16 - 20	-4	1.81	46	0.98	25	1.73	44
1242026	0.250	6.4	-4	1/2 - 20	-5	1.93	49	1.10	28	1.81	46
1242027	0.250	6.4	-4	9/16 - 18	-6	1.81	46	0.98	25	2.20	56
1242028	0.375	9.5	-6	9/16 - 18	-6	2.28	58	1.30	33	2.20	56
1242029	0.375	9.5	-6	3/4 - 16	-8	2.28	58	1.30	33	2.52	64
1242030	0.500	12.7	-8	3/4 - 16	-8	2.52	64	1.54	39	2.52	64
1242031	0.500	12.7	-8	7/8 - 14	-10	2.52	64	1.54	39	3.07	78
1242032	0.625	15.9	-10	7/8 - 14	-10	2.83	72	1.85	47	3.07	78
1242033	0.625	15.9	-10	1 1/16 - 12	-12	2.83	72	1.85	47	3.62	92
1242034	0.750	19.1	-12	1 1/16 - 12	-12	3.31	84	2.09	53	3.74	95
1242035	0.750	19.1	-12	1 3/16 - 12	-14	3.82	97	2.60	66	3.94	100
1242036	1.000	25.4	-16	1 5/16 - 12	-16	4.49	114	2.99	76	4.37	111
1471708	1.250	31.8	-20	1 5/8 - 12	-20	5.08	129	3.46	88	5.43	138



SAE 45° Male

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1540086	0.375	9.5	-6	5/8 - 18	-6	2.20	56	1.22	31

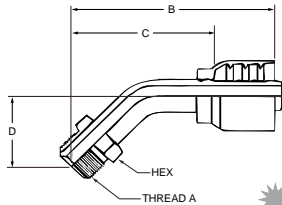


SAE Male Inverted Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1242041	0.250	6.4	-4	7/16 - 24	-4	1.93	49	1.06	27
1242042	0.250	6.4	-4	1/2 - 20	-5	1.97	50	1.14	29
1242043	0.375	9.5	-6	5/8 - 18	-6	2.20	56	1.22	31
1540087	0.375	9.5	-6	1 1/16 - 18	-7	2.24	57	1.26	32
1242044	0.500	12.7	-8	3/4 - 18	-8	2.32	59	1.34	34
1242045	0.625	15.9	-10	7/8 - 18	-10	2.48	63	1.50	38

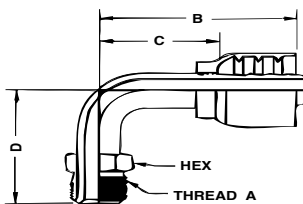


Caterpillar Hose Couplings (716, 294, 844)



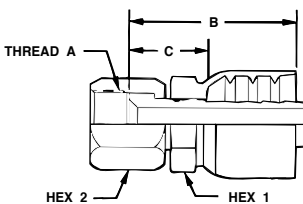
SAE Male Inverted Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1471710	0.250	6.4	-4	7/16 - 24	-4	2.44	62	1.57	40	0.83	21
1540088	0.375	9.5	-6	5/8 - 18	-6	2.91	74	1.93	49	0.94	24
1471711	0.500	12.7	-8	3/4 - 18	-8	3.35	85	2.36	60	1.18	30



SAE Male Inverted Swivel - 90° Elbow

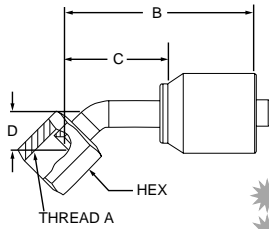
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1242046	0.250	6.4	-4	7/16 - 24	-4	1.93	49	0.98	25	1.38	35
1242047	0.250	6.4	-4	1/2 - 20	-5	1.93	49	0.98	25	1.34	34
1242048	0.375	9.5	-6	7/16 - 24	-4	2.32	59	1.18	30	1.30	33
1540089	0.375	9.5	-6	1/2 - 20	-5	2.17	55	1.18	30	1.34	34
1242049	0.375	9.5	-6	5/8 - 18	-6	2.44	62	1.30	33	1.50	38
1540090	0.375	9.5	-6	11/16 - 18	-7	2.28	58	1.30	33	1.73	44
1471712	0.500	12.7	-8	3/4 - 18	-8	2.52	64	1.54	39	1.81	46
1471713	0.625	15.9	-10	7/8 - 18	-10	2.83	72	1.85	47	2.13	54



SAE 45° Female Swivel

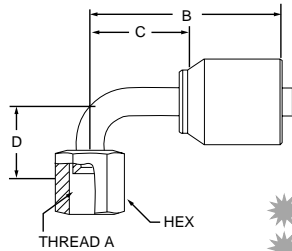
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1242037	0.250	6.4	-4	7/16 - 20	-4	1.50	38	0.67	17
1540085	0.250	6.4	-4	5/8 - 18	-6	1.54	39	0.71	18
1242038	0.375	9.5	-6	5/8 - 18	-6	1.73	44	0.75	19
1242039	0.500	12.7	-8	3/4 - 16	-8	1.89	48	0.91	23
1242040	0.750	19.1	-12	1 1/16 - 14	-12	2.28	58	1.10	28

Caterpillar Hose Couplings (716, 294, 844)



SAE 45° Female Swivel - 45° Elbow

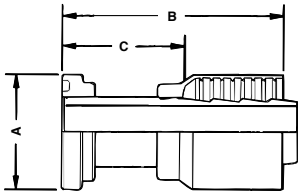
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
1540072	0.250	6.4	-4	7/16 - 20	-4	1.93	49	1.10	28	0.31	8
1540073	0.250	6.4	-4	1/2 - 20	-5	1.97	50	1.14	29	0.35	9
1540074	0.375	9.5	-6	5/8 - 18	-6	2.40	61	1.38	35	0.39	10
1540075	0.375	9.5	-6	3/4 - 16	-8	2.56	65	1.54	39	0.55	14
1540077	0.500	12.7	-8	3/4 - 16	-8	2.72	69	1.73	44	0.55	14
1540078	0.500	12.7	-8	7/8 - 14	-10	2.80	71	1.81	46	0.63	16
1540079	0.750	19.1	-12	1 1/16 - 14	-12	3.46	88	2.24	57	0.79	20



SAE 45° Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
1540080	0.250	6.4	-4	7/16 - 20	-4	1.81	46	0.98	25	0.67	17
1540081	0.250	6.4	-4	1/2 - 20	-5	1.81	46	0.98	25	0.79	20
1540082	0.375	9.5	-6	5/8 - 18	-6	2.28	58	1.30	33	0.87	22
1540083	0.500	12.7	-8	3/4 - 16	-8	2.52	64	1.54	39	1.10	28
1540084	0.750	19.1	-12	1 1/16 - 14	-12	3.31	84	2.09	53	1.81	46

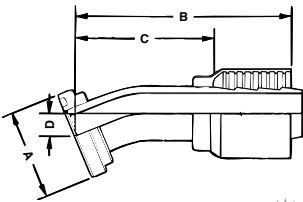
Caterpillar Hose Couplings (716, 294, 844)



SAE Code 61 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	
1242050	0.500	12.7	-8	1.19	30.2	-8	2.64	67	1.65	42	4J5140
1242051	0.500	12.7	-8	1.50	38.1	-12	2.76	70	1.77	45	4J5267
1540091	0.625	15.9	-10	1.34	34.1	-10	3.11	79	2.09	53	4J8996
1540092	0.625	15.9	-10	1.50	38.1	-12	2.91	74	1.93	49	4J5267
1242052	0.750	19.1	-12	1.50	38.1	-12	3.31	84	2.09	53	4J5267
1242053	0.750	19.1	-12	1.75	44.5	-16	3.31	84	2.09	53	4J0520
1242054	1.000	25.4	-16	1.75	44.5	-16	3.35	85	1.85	47	4J0520
1242055	1.000	25.4	-16	2.00	50.8	-20	3.43	87	1.93	49	4J0522
1242056	1.250	31.8	-20	2.00	50.8	-20	3.86	98	2.24	57	4J0522
1242057	1.250	31.8	-20	2.37	60.3	-24	3.86	98	2.24	57	4J0524
1242058	1.500	38.1	-24	2.37	60.3	-24	4.57	116	2.56	65	4J0524
1242059	1.500	38.1	-24	2.81	71.4	-32	4.57	116	2.56	65	4J0527
1242060	2.000	50.8	-32	2.81	71.4	-32	5.16	131	2.99	76	4J0527
1242061	2.000	50.8	-32	3.31	84.1	-40	5.16	131	2.99	76	6J2680

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

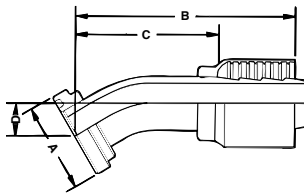


SAE Code 61 Flange - 22 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1471714	0.500	12.7	-8	1.19	30.2	-8	2.95	75	1.93	49	0.35	9	4J5140
1242062	0.750	19.1	-12	1.50	38.1	-12	3.58	91	2.36	60	0.43	11	4J5267
1242063	0.750	19.1	-12	1.75	44.5	-16	3.58	91	2.36	60	0.43	11	4J0520
1242064	1.000	25.4	-16	1.75	44.5	-16	4.17	106	2.68	68	0.43	11	4J0520
1242065	1.000	25.4	-16	2.00	50.8	-20	4.25	108	2.72	69	0.47	12	4J0522
1242066	1.250	31.8	-20	2.00	50.8	-20	4.92	125	3.31	84	0.51	13	4J0522
1471717	1.250	31.8	-20	2.37	60.3	-24	5.20	132	3.58	91	0.59	15	4J0524
1242067	1.500	38.1	-24	2.37	60.3	-24	6.02	153	3.98	101	0.59	15	4J0524
1242068	2.000	50.8	-32	2.81	71.4	-32	7.44	189	5.28	134	0.87	22	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

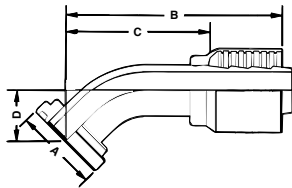
Caterpillar Hose Couplings (716, 294, 844)



SAE Code 61 Flange - 30° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242069	0.750	19.1	-12	1.50	38.1	-12	3.82	97	2.44	62	0.59	15	4J5267
1242070	1.000	25.4	-16	1.75	44.5	-16	4.29	109	2.80	71	0.63	16	4J0520
1242071	1.250	31.8	-20	2.00	50.8	-20	5.04	128	3.43	87	0.71	18	4J0522
1242072	1.500	38.1	-24	2.37	60.3	-24	6.18	157	4.17	106	0.83	21	4J0524
1242073	1.500	38.1	-24	2.81	71.4	-32	6.18	157	4.17	106	0.83	21	4J0527
1242074	2.000	50.8	-32	2.81	71.4	-32	7.64	194	5.51	140	1.26	32	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

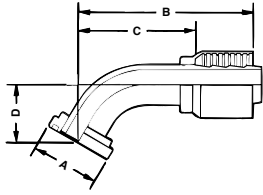


SAE Code 61 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242075	0.500	12.7	-8	1.19	30.2	-8	3.07	78	2.09	53	0.79	20	4J5140
1242076	0.500	12.7	-8	1.50	38.1	-12	3.11	79	2.13	54	0.83	21	4J5267
1540093	0.625	15.9	-10	1.34	34.1	-10	3.46	88	2.48	63	1.02	26	4J8996
1471715	0.625	15.9	-10	1.50	38.1	-12	3.58	91	2.60	66	1.14	29	4J5267
1242077	0.750	19.1	-12	1.50	38.1	-12	3.82	97	2.56	65	0.98	25	4J5267
1242078	0.750	19.1	-12	1.75	44.5	-16	3.82	97	2.56	65	0.98	25	4J0520
1242079	1.000	25.4	-16	1.75	44.5	-16	4.49	114	2.99	76	1.06	27	4J0520
1242080	1.000	25.4	-16	2.00	50.8	-20	4.53	115	3.03	77	1.10	28	4J0522
1242081	1.250	31.8	-20	2.00	50.8	-20	5.24	133	3.62	92	1.18	30	4J0522
1242082	1.250	31.8	-20	2.37	60.3	-24	5.28	134	3.70	94	1.22	31	4J0524
1242083	1.500	38.1	-24	2.37	60.3	-24	6.42	163	4.41	112	1.38	35	4J0524
1242084	1.500	38.1	-24	2.81	71.4	-32	6.42	163	4.41	112	1.38	35	4J0527
1242085	2.000	50.8	-32	2.81	71.4	-32	7.95	202	5.79	147	2.05	52	4J0527

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

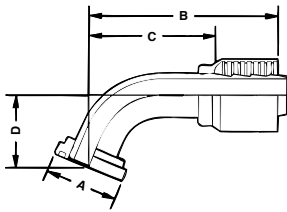
Caterpillar Hose Couplings (716, 294, 844)



SAE Code 61 Flange - 60° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1242086	0.750	19.1	-12	1.50	38.1	-12	3.82	97	2.60	66	1.38	35	4J5267	
1242087	1.000	25.4	-16	1.75	44.5	-16	4.53	115	3.03	77	1.50	38	4J0520	
1242088	1.250	31.8	-20	2.00	50.8	-20	5.28	134	3.70	94	1.65	42	4J0522	
1242089	1.500	38.1	-24	2.37	60.3	-24	6.50	165	4.49	114	1.97	50	4J0524	
1242090	2.000	50.8	-32	2.81	71.4	-32	8.03	204	5.87	149	2.87	73	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

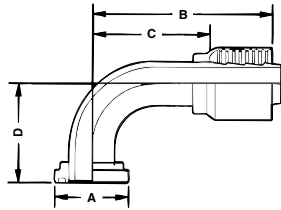


SAE Code 61 Flange - 67 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
1242091	0.750	19.1	-12	1.50	38.1	-12	3.78	96	2.56	65	1.57	40	4J5267	
1242092	1.000	25.4	-16	1.75	44.5	-16	4.53	115	3.03	77	1.73	44	4J0520	
1242093	1.250	31.8	-20	2.00	50.8	-20	5.31	135	3.70	94	1.93	49	4J0522	
1242094	1.250	31.8	-20	2.37	60.3	-24	5.28	134	3.70	94	1.97	50	4J0524	
1242095	1.500	38.1	-24	2.37	60.3	-24	6.50	165	4.45	113	2.28	58	4J0524	
1242096	1.500	38.1	-24	2.81	71.4	-32	6.50	165	4.45	113	2.28	58	4J0527	
1242097	2.000	50.8	-32	2.81	71.4	-32	7.95	202	5.83	148	3.31	84	4J0527	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

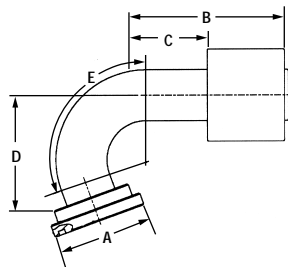
Caterpillar Hose Couplings (716, 294, 844)



SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242098	0.500	12.7	-8	1.19	30.2	-8	2.80	71	1.81	46	1.61	41	4J5140
1242099	0.500	12.7	-8	1.50	38.1	-12	2.80	71	1.81	46	1.69	43	4J5267
1540094	0.625	15.9	-10	1.34	34.1	-10	2.95	75	1.97	50	2.17	55	4J8996
1242100	0.625	15.9	-10	1.50	38.1	-12	2.95	75	2.01	51	2.13	54	4J5267
1242101	0.750	19.1	-12	1.50	38.1	-12	3.54	90	2.32	59	2.13	54	4J5267
1242102	0.750	19.1	-12	1.75	44.5	-16	3.54	90	2.32	59	2.20	56	4J0520
1242103	1.000	25.4	-16	1.75	44.5	-16	4.29	109	2.80	71	2.36	60	4J0520
1242104	1.000	25.4	-16	2.00	50.8	-20	4.29	109	2.80	71	2.44	62	4J0522
1242105	1.250	31.8	-20	2.00	50.8	-20	5.00	127	3.43	87	2.64	67	4J0522
1242106	1.250	31.8	-20	2.37	60.3	-24	5.00	127	3.43	87	2.68	68	4J0524
1242107	1.500	38.1	-24	2.37	60.3	-24	6.18	157	4.17	106	3.11	79	4J0524
1242108	1.500	38.1	-24	2.81	71.4	-32	6.18	157	4.17	106	3.11	79	4J0527
1242109	2.000	50.8	-32	2.81	71.4	-32	7.52	191	5.35	136	4.49	114	4J0527
1242110	2.000	50.8	-32	3.31	84.1	-40	7.52	191	5.35	136	4.49	114	6J2680

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

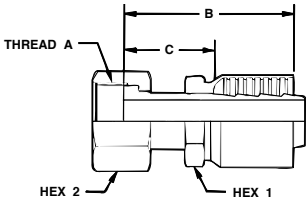


SAE Code 61 Flange - 110° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP		E ANGLE	O-RING SEAL
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)		
1242170	1.250	31.8	-20	2.37	60.3	-24	4.65	118	3.07	78	3.15	80	110	4J0524

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

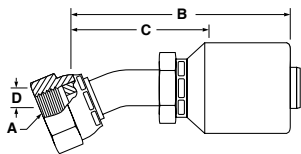
Caterpillar Hose Couplings (716, 294, 844)



ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
1242111	0.250	6.4	-4	9/16 - 18	-4	1.81	46	0.98	25	4J5477
1242113	0.250	6.4	-4	11/16 - 16	-6	1.93	49	1.10	28	6V8397
★ 1540095	0.250	6.4	-4	13/16 - 16	-8	2.09	53	1.26	32	6V8398
★ 1540096	0.375	9.5	-6	9/16 - 18	-4	2.17	55	1.18	30	4J5477
1242114	0.375	9.5	-6	11/16 - 16	-6	2.13	54	1.14	29	6V8397
1242116	0.375	9.5	-6	13/16 - 16	-8	2.28	58	1.30	33	6V8398
★ 1540097	0.500	12.7	-8	11/16 - 16	-6	2.40	61	1.42	36	6V8397
1242117	0.500	12.7	-8	13/16 - 16	-8	2.28	58	1.30	33	6V8398
1242118	0.500	12.7	-8	1 - 14	-10	2.40	61	1.42	36	7J9108
★ 1471716	0.500	12.7	-8	13/16 - 12	-12	2.52	64	1.50	38	6V9746
1242119	0.625	15.9	-10	1 - 14	-10	2.44	62	1.46	37	7J9108
1242120	0.625	15.9	-10	13/16 - 12	-12	2.56	65	1.57	40	6V9746
★ 1540098	0.750	19.1	-12	1 - 14	-10	2.80	71	1.57	40	7J9108
1242121	0.750	19.1	-12	13/16 - 12	-12	2.80	71	1.57	40	6V9746
1242122	0.750	19.1	-12	17/16 - 12	-16	2.95	75	1.73	44	5K9090
1242123	1.000	25.4	-16	17/16 - 12	-16	3.23	82	1.73	44	5K9090
1242124	1.000	25.4	-16	111/16 - 12	-20	3.23	82	1.73	44	6V8400
1242125	1.250	31.8	-20	111/16 - 12	-20	3.39	86	1.77	45	6V8400
1242320	1.500	38.1	-24	2 - 12	-24	3.98	101	1.97	50	8T0315

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

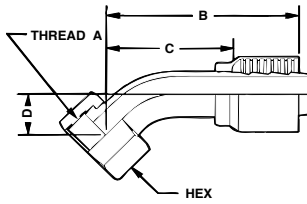


ORFS Female Swivel - 22 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	DROP (in)	(mm)	
1242127	0.500	12.7	-8	13/16 - 16	-8	3.07	78	2.09	53	0.43	11	6V8398

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose Couplings (716, 294, 844)

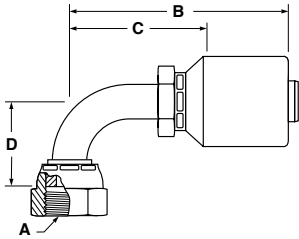


ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in) (mm)	(in) (mm)			
1242128	0.250	6.4	-4	9/16 - 18	-4	2.01	51	1.18	30	0.39	10	4J5477
1242129	0.250	6.4	-4	11/16 - 16	-6	2.05	52	1.22	31	0.43	11	6V8397
* 1540099	0.375	9.5	-6	9/16 - 18	-4	2.36	60	1.38	35	0.39	10	4J5477
1242130	0.375	9.5	-6	11/16 - 16	-6	2.40	61	1.42	36	0.43	11	6V8397
1242131	0.375	9.5	-6	13/16 - 16	-8	2.60	66	1.57	40	0.59	15	6V8398
* 1540100	0.500	12.7	-8	11/16 - 16	-6	2.48	63	1.50	38	0.43	11	6V8397
1242132	0.500	12.7	-8	13/16 - 16	-8	2.76	70	1.77	45	0.59	15	6V8398
1242133	0.500	12.7	-8	1 - 14	-10	2.83	72	1.81	46	0.67	17	7J9108
1242134	0.500	12.7	-8	13/16 - 12	-12	2.99	76	2.01	51	0.83	21	6V9746
1242135	0.625	15.9	-10	1 - 14	-10	3.07	78	2.09	53	0.67	17	7J9108
1242136	0.625	15.9	-10	13/16 - 12	-12	3.23	82	2.24	57	0.83	21	6V9746
1242137	0.750	19.1	-12	13/16 - 12	-12	3.54	90	2.32	59	0.83	21	6V9746
1242138	1.000	25.4	-16	17/16 - 12	-16	4.37	111	2.83	72	0.94	24	5K9090
1242139	1.250	31.8	-20	111/16 - 12	-20	5.28	134	3.66	93	0.98	25	6V8400
* 1471696	1.500	38.1	-24	2 - 12	-24	5.87	149	3.86	98	1.06	27	8T0315

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

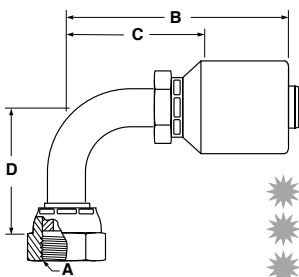
Caterpillar Hose Couplings (716, 294, 844)



ORFS Female Swivel - 90° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
1242140	0.250	6.4	-4	9/16 - 18	-4	1.81	46	0.98	25	0.79	20	4J5477
1242141	0.250	6.4	-4	11/16 - 16	-6	1.81	46	0.98	25	0.91	23	6V8397
1242142	0.250	6.4	-4	13/16 - 16	-8	1.81	46	0.98	25	1.14	29	6V8398
1242143	0.375	9.5	-6	9/16 - 18	-4	2.17	55	1.18	30	0.79	20	4J5477
1242144	0.375	9.5	-6	11/16 - 16	-6	2.28	58	1.30	33	0.91	23	6V8397
1242145	0.375	9.5	-6	13/16 - 16	-8	2.28	58	1.30	33	1.14	29	6V8398
1242146	0.500	12.7	-8	11/16 - 16	-6	2.36	60	1.38	35	0.91	23	6V8397
1242147	0.500	12.7	-8	13/16 - 16	-8	2.52	64	1.54	39	1.14	29	6V8398
1242148	0.500	12.7	-8	1 - 14	-10	2.52	64	1.54	39	1.26	32	7J9108
1242149	0.500	12.7	-8	13/16 - 12	-12	2.52	64	1.54	39	1.89	48	6V9746
1242150	0.625	15.9	-10	1 - 14	-10	2.83	72	1.85	47	1.26	32	7J9108
1242151	0.625	15.9	-10	13/16 - 12	-12	2.83	72	1.85	47	1.89	48	6V9746
1242152	0.750	19.1	-12	1 - 14	-10	3.15	80	1.93	49	1.26	32	7J9108
1242153	0.750	19.1	-12	13/16 - 12	-12	3.31	84	2.09	53	1.89	48	6V9746
1242154	0.750	19.1	-12	17/16 - 12	-16	3.31	84	2.09	53	2.20	56	5K9090
1242155	1.000	25.4	-16	17/16 - 12	-16	4.29	109	2.80	71	2.20	56	5K9090
1242156	1.000	25.4	-16	111/16 - 12	-20	4.29	109	2.80	71	2.52	64	6V8400
1242157	1.250	31.8	-20	111/16 - 12	-20	5.20	132	3.62	92	2.52	64	6V8400

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

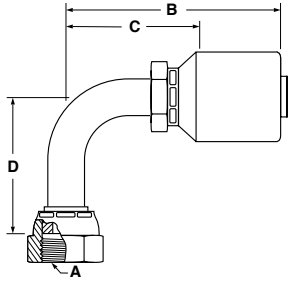


ORFS Female Swivel - 90° Elbow - Medium

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
1242322	0.250	6.4	-4	9/16 - 18	-4	1.81	46	0.98	25	1.26	32	4J5477
1242323	0.375	9.5	-6	11/16 - 16	-6	2.24	57	1.26	32	1.50	38	6V8397
1242325	0.500	12.7	-8	13/16 - 16	-8	2.52	64	1.54	39	1.61	41	6V8398
1242168	0.625	15.9	-10	1 - 14	-10	2.83	72	1.85	47	1.85	47	7J9108
1471694	0.750	19.1	-12	13/16 - 12	-12	3.27	83	2.05	52	2.28	58	6V9746
1471695	1.000	25.4	-16	17/16 - 12	-16	4.29	109	2.80	71	2.80	71	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

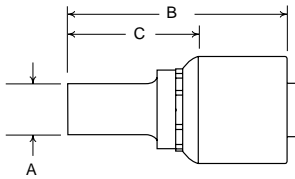
Caterpillar Hose Couplings (716, 294, 844)



ORFS Female Swivel - 90° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242158	0.250	6.4	-4	9/16 - 18	-4	1.81	46	0.98	25	1.81	46	4J5477
1242159	0.250	6.4	-4	11/16 - 16	-6	1.81	46	0.98	25	2.13	54	6V8397
1242160	0.375	9.5	-6	11/16 - 16	-6	2.28	58	1.30	33	2.13	54	6V8397
1242161	0.375	9.5	-6	13/16 - 16	-8	2.28	58	1.30	33	2.52	64	6V8398
1242162	0.500	12.7	-8	13/16 - 16	-8	2.52	64	1.54	39	2.52	64	6V8398
1242163	0.500	12.7	-8	1 - 14	-10	2.52	64	1.54	39	2.76	70	7J9108
1242164	0.625	15.9	-10	1 - 14	-10	2.83	72	1.85	47	2.76	70	7J9108
1242165	0.750	19.1	-12	13/16 - 12	-12	3.31	84	2.09	53	3.78	96	6V9746
1242166	1.000	25.4	-16	17/16 - 12	-16	4.29	109	2.80	71	4.49	114	5K9090
1242167	1.250	31.8	-20	111/16 - 12	-20	5.20	132	3.62	92	5.08	129	6V8400

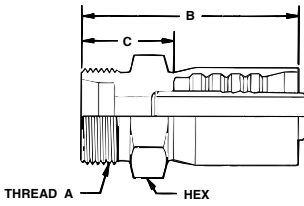
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Metric Standpipe - Light Series

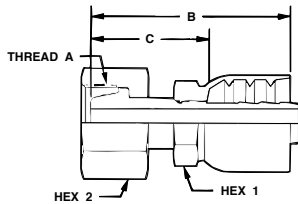
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		B LENGTH		C CUT-OFF FACTOR		NUT PART NUMBER	RING PART NUMBER
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)		
1242188	0.250	6.4	-4	0.24	6.0	2.01	51	1.18	30	5W1636	5W1648
1242189	0.250	6.4	-4	0.31	8.0	1.93	49	1.10	28	5W1680	5W1681
1242190	0.312	7.9	-5	0.39	10.0	2.20	56	1.18	30	5W1638	5W1650
1242192	0.375	9.5	-6	0.39	10.0	2.28	58	1.30	33	5W1638	5W1650
1242193	0.375	9.5	-6	0.47	12.0	2.20	56	1.18	30	5W1639	5W1651
1242194	0.500	12.7	-8	0.59	15.0	2.28	58	1.30	33	5W1640	5W1653
1242195	0.625	15.9	-10	0.71	18.0	2.40	61	1.38	35	5W1642	5W1655
1242196	0.750	19.1	-12	0.71	18.0	2.64	67	1.42	36	5W1642	5W1655
1242197	0.750	19.1	-12	0.87	22.0	2.64	67	1.42	36	5W1644	5W1657
1242198	1.000	25.4	-16	1.10	28.0	3.11	79	1.57	40	5W4778	5W4779
1242199	1.250	31.8	-20	1.38	35.0	3.31	84	1.73	44	5W1647	5W1660

Caterpillar Hose Couplings (716, 294, 844)



Metric Male - 24° Cone - Light Series (DIN 20078)

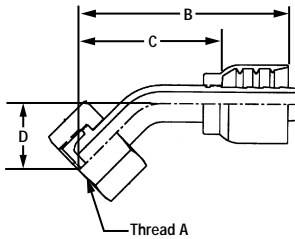
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)
1242176	0.250	6.4	-4	M12 x 1.5	0.24	6	1.69	43	0.87	22
1242177	0.250	6.4	-4	M14 x 1.5	0.32	8	1.69	43	0.87	22
1242178	0.312	7.9	-5	M16 x 1.5	0.39	10	2.01	51	0.98	25
1242180	0.375	9.5	-6	M16 x 1.5	0.39	10	2.01	51	1.02	26
1242181	0.375	9.5	-6	M18 x 1.5	0.47	12	2.01	51	1.02	26
1242182	0.500	12.7	-8	M22 x 1.5	0.59	15	2.09	53	1.10	28
1242183	0.625	15.9	-10	M26 x 1.5	0.71	18	2.17	55	1.18	30
1242184	0.750	19.1	-12	M26 x 1.5	0.71	18	2.40	61	1.18	30
1242185	0.750	19.1	-12	M30 x 2.0	0.87	22	2.56	65	1.34	34
1242186	1.000	25.4	-16	M36 x 2.0	1.10	28	2.95	75	1.46	37
1242187	1.250	31.8	-20	M45 x 2.0	1.38	35	3.35	85	1.73	44



Metric Female Swivel - Spherical Seat - Light Series (DIN 20078)

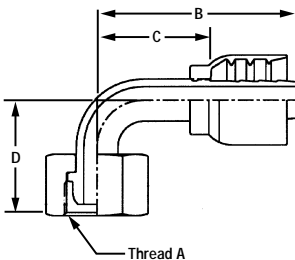
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)
1242200	0.250	6.4	-4	M12 x 1.5	0.24	6	1.81	46	0.98	25
1242202	0.250	6.4	-4	M14 x 1.5	0.31	8	1.77	45	0.94	24
1242203	0.312	7.9	-5	M16 x 1.5	0.39	10	2.12	54	1.13	29
1242204	0.375	9.5	-6	M16 x 1.5	0.39	10	2.09	53	1.06	27
1242205	0.375	9.5	-6	M18 x 1.5	0.47	12	2.09	53	1.06	27
1242207	0.500	12.7	-8	M22 x 1.5	0.59	15	2.13	54	1.14	29
1242208	0.625	15.9	-10	M26 x 1.5	0.71	18	2.20	56	1.18	30
1242209	0.750	19.1	-12	M30 x 2.0	0.87	22	2.56	65	1.34	34
1242210	1.000	25.4	-16	M36 x 2.0	1.10	28	2.91	74	1.38	35
1242211	1.250	31.8	-20	M45 x 2.0	1.38	35	3.19	81	1.61	41

Caterpillar Hose Couplings (716, 294, 844)



Metric Female Swivel - Spherical Seat - 45° Elbow - Light Series (DIN 20078)

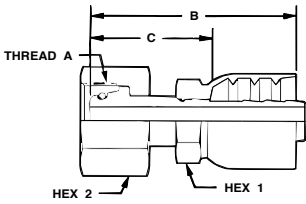
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1242212	0.250	6.4	-4	M14 x 1.5	0.32	8	2.20	56	1.38	35	0.59	15
1242213	0.312	7.9	-5	M16 x 1.5	0.39	10	2.76	70	1.73	44	0.83	21
1242214	0.375	9.5	-6	M16 x 1.5	0.39	10	2.80	71	1.81	46	0.83	21
1242215	0.375	9.5	-6	M18 x 1.5	0.47	12	2.80	71	1.81	46	0.83	21
1242216	0.500	12.7	-8	M22 x 1.5	0.59	15	3.07	78	2.09	53	0.91	23
1242217	0.625	15.9	-10	M26 x 1.5	0.71	18	3.50	89	2.52	64	1.10	28
1242218	0.750	19.1	-12	M26 x 1.5	0.71	18	3.82	97	2.60	66	1.10	28
1242219	0.750	19.1	-12	M30 x 2.0	0.87	22	3.78	96	2.56	65	1.06	27
1242220	1.000	25.4	-16	M36 x 2.0	1.10	28	4.72	120	3.23	82	1.30	33



Metric Female Swivel - Spherical Seat - 90° Elbow - Light Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1242222	0.250	6.4	-4	M14 x 1.5	0.32	8	1.81	46	0.98	25	1.10	28
1242223	0.312	7.9	-5	M16 x 1.5	0.39	10	2.20	56	1.18	30	1.46	37
1242224	0.375	9.5	-6	M18 x 1.5	0.47	12	2.28	58	1.30	33	1.46	37
1242225	0.500	12.7	-8	M22 x 1.5	0.59	15	2.52	64	1.54	39	1.65	42
1242226	0.625	15.9	-10	M26 x 1.5	0.71	18	2.83	72	1.85	47	2.01	51
1242227	0.750	19.1	-12	M30 x 2.0	0.87	22	3.31	84	2.09	53	2.09	53
1242228	1.000	25.4	-16	M36 x 2.0	1.10	28	4.29	109	2.80	71	2.72	69
1242229	1.250	31.8	-20	M45 x 2.0	1.38	35	5.00	127	3.39	86	2.99	76

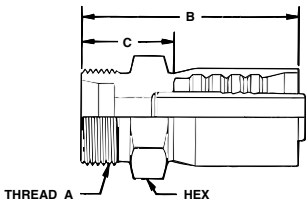
Caterpillar Hose Couplings (716, 294, 844)



Metric Female Swivel - Spherical Seat With O-Ring - Light Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		METRIC O-RING SEAL
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242230	0.250	6.4	-4	M12 x 1.5	0.24	6	1.93	49	1.10	28	3E4288
1242232	0.250	6.4	-4	M14 x 1.5	0.32	8	1.93	49	1.10	28	3E4289
1242233	0.312	7.9	-5	M16 x 1.5	0.39	10	2.20	56	1.18	30	3E4296
1242234	0.375	9.5	-6	M16 x 1.5	0.39	10	2.17	55	1.18	30	3E4296
1242235	0.375	9.5	-6	M18 x 1.5	0.47	12	2.17	55	1.18	30	3E4297
1242236	0.500	12.7	-8	M22 x 1.5	0.59	15	2.28	58	1.30	33	3E4298
1242237	0.625	15.9	-10	M26 x 1.5	0.71	18	2.40	61	1.42	36	7T0506
1242238	0.750	19.1	-12	M26 x 1.5	0.71	18	2.72	69	1.50	38	7T0506
1242239	0.750	19.1	-12	M30 x 2.0	0.87	22	2.76	70	1.54	39	3E6761
1242240	1.000	25.4	-16	M36 x 2.0	1.10	28	3.11	79	1.61	41	0922304
1242241	1.250	31.8	-20	M45 x 2.0	1.38	35	3.46	88	1.85	47	9X7447

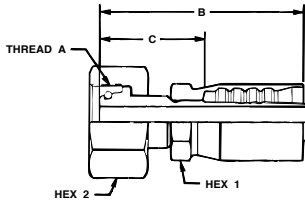
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Metric Male - 24° Cone - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)
1242242	0.250	6.4	-4	M16 x 1.5	0.32	8	1.81	46	0.98	25
1242243	0.250	6.4	-4	M18 x 1.5	0.39	10	1.81	46	0.98	25
1242244	0.312	7.9	-5	M20 x 1.5	0.47	12	2.17	55	1.14	29
1242245	0.375	9.5	-6	M20 x 1.5	0.47	12	2.13	54	1.14	29
1242246	0.375	9.5	-6	M22 x 1.5	0.55	14	2.20	56	1.18	30
1242247	0.500	12.7	-8	M24 x 1.5	0.63	16	2.20	56	1.22	31
1242248	0.625	15.9	-10	M30 x 2.0	0.79	20	2.44	62	1.46	37
1242249	0.750	19.1	-12	M30 x 2.0	0.79	20	2.64	67	1.42	36
1242250	0.750	19.1	-12	M36 x 2.0	0.98	25	2.76	70	1.54	39
1242251	1.000	25.4	-16	M42 x 2.0	1.18	30	3.23	82	1.73	44
1242252	1.250	31.8	-20	M52 x 2.0	1.50	38	3.66	93	2.09	53

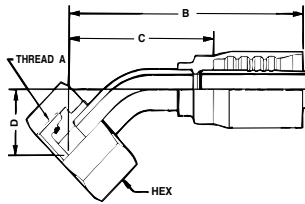
Caterpillar Hose Couplings (716, 294, 844)



Metric Female Swivel - Spherical Seat With O-Ring - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		METRIC O-RING SEAL
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242253	0.250	6.4	-4	M16 x 1.5	0.32	8	2.01	51	1.18	30	3E4289
1242254	0.250	6.4	-4	M18 x 1.5	0.39	10	2.05	52	1.22	31	3E4296
1242255	0.312	7.9	-5	M20 x 1.5	0.47	12	2.28	58	1.26	32	3E4297
1242256	0.375	9.5	-6	M20 x 1.5	0.47	12	2.24	57	1.26	32	3E4297
1242257	0.375	9.5	-6	M22 x 1.5	0.55	14	2.40	61	1.38	35	7T0508
1242258	0.500	12.7	-8	M24 x 1.5	0.63	16	2.44	62	1.46	37	3E4298
1242259	0.625	15.9	-10	M30 x 2.0	0.79	20	2.64	67	1.65	42	3E4299
1242260	0.750	19.1	-12	M30 x 2.0	0.79	20	2.95	75	1.73	44	3E4299
1242261	0.750	19.1	-12	M36 x 2.0	0.98	25	3.07	78	1.85	47	3E6762
1242262	1.000	25.4	-16	M42 x 2.0	1.18	30	3.46	88	1.97	50	3E6763
1242263	1.250	31.8	-20	M52 x 2.0	1.50	38	3.86	98	2.24	57	3E6764

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

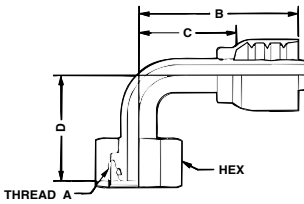


Metric Female Swivel - Spherical Seat With O-Ring - 45° Elbow - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		D DROP		METRIC O-RING SEAL
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242264	0.250	6.4	-4	M16 x 1.5	0.32	8	2.28	58	1.46	37	0.67	17	3E4289
1242265	0.250	6.4	-4	M18 x 1.5	0.39	10	2.32	59	1.50	38	0.71	18	3E4296
1242266	0.312	7.9	-5	M20 x 1.5	0.47	12	2.72	69	1.69	43	0.79	20	3E4297
1242267	0.375	9.5	-6	M20 x 1.5	0.47	12	2.83	72	1.85	47	0.87	22	3E4297
1242268	0.375	9.5	-6	M22 x 1.5	0.55	14	2.87	73	1.85	47	0.87	22	7T0508
1242269	0.500	12.7	-8	M24 x 1.5	0.63	16	3.15	80	2.17	55	0.98	25	6T6408
1242270	0.625	15.9	-10	M30 x 2.0	0.79	20	3.50	89	2.52	64	1.10	28	3E4299
1242271	0.750	19.1	-12	M30 x 2.0	0.79	20	3.82	97	2.60	66	1.10	28	3E4299
1242272	0.750	19.1	-12	M36 x 2.0	0.98	25	3.90	99	2.68	68	1.18	30	3E6762
1242273	1.000	25.4	-16	M42 x 2.0	1.18	30	4.92	125	3.43	87	1.50	38	3E6763
1242274	1.250	31.8	-20	M52 x 2.0	1.50	38	5.83	148	4.25	108	1.57	40	9X7414

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

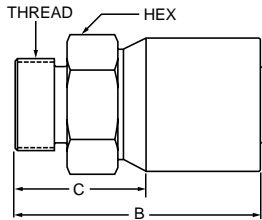
Caterpillar Hose Couplings (716, 294, 844)



Metric Female Swivel - Spherical Seat With O-Ring - 90° Elbow - Heavy Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE		A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR		D DROP		METRIC O-RING SEAL
	(in)	(mm)		(dia x pitch)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
1242275	0.250	6.4	-4	M16 x 1.5	0.32	8	1.81	46	0.98	25	1.18	30	8T6850	
1242276	0.250	6.4	-4	M18 x 1.5	0.39	10	1.81	46	0.98	25	1.18	30	8T7524	
1242277	0.312	7.9	-5	M20 x 1.5	0.47	12	2.20	56	1.18	30	1.50	38	8T7877	
1242278	0.375	9.5	-6	M20 x 1.5	0.47	12	2.32	59	1.30	33	1.50	38	8T7877	
1242279	0.375	9.5	-6	M22 x 1.5	0.55	14	2.28	58	1.30	33	1.50	38	7T0508	
1242280	0.500	12.7	-8	M24 x 1.5	0.63	16	2.52	64	1.54	39	1.73	44	6T6408	
1242281	0.625	15.9	-10	M30 x 2.0	0.79	20	2.83	72	1.85	47	2.17	55	3E4299	
1242282	0.750	19.1	-12	M30 x 2.0	0.79	20	3.31	84	2.09	53	2.17	55	3E4299	
1242283	0.750	19.1	-12	M36 x 2.0	0.98	25	3.31	84	2.09	53	2.28	58	3E6762	
1242284	1.000	25.4	-16	M42 x 2.0	1.18	30	4.29	109	2.80	71	2.99	76	3E6764	
1242285	1.250	31.8	-20	M52 x 2.0	1.50	38	5.20	132	3.62	92	3.19	81	9X7414	

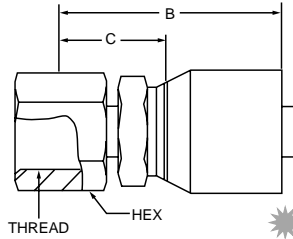
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Male JIS 60° Cone

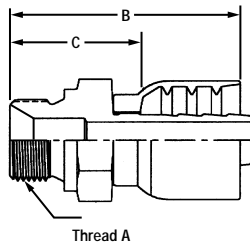
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A JIS THREAD SIZE		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in - TPI)	(in)	(mm)	(in)	(mm)	
1242286	0.250	6.4	-4	1/4 - 19	-4	1.77	45	0.94	24
1242287	0.375	9.5	-6	3/8 - 19	-6	2.17	55	1.18	30
1242288	0.500	12.7	-8	1/2 - 14	-8	2.32	59	1.34	34
1242289	0.750	19.1	-12	3/4 - 14	-12	2.83	72	1.61	41
1242290	1.000	25.4	-16	1 - 11	-16	3.31	84	1.77	45

Caterpillar Hose Couplings (716, 294, 844)



JIS Metric Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		JIS THREAD SIZE (dia x pitch)	JIS THREAD DASH SIZE	(in)	(mm)	(in)	(mm)
1540106	0.250	6.4	-4	M14 x 1.5	-4	1.61	41	0.79	20
1540108	0.250	6.4	-4	M18 x 1.5	-6	1.69	43	0.87	22
1540107	0.375	9.5	-6	M14 x 1.5	-4	1.89	48	0.87	22
1540109	0.375	9.5	-6	M18 x 1.5	-6	1.93	49	0.91	23
1540110	0.500	12.7	-8	M22 x 1.5	-8	1.81	46	0.83	21



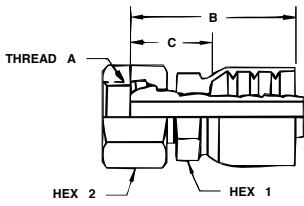
Male BSPP 60° Cone

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B LENGTH		C CUT-OFF FACTOR		BSPP DOWTY SEAL
	(in)	(mm)		BSPP THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	
1242172	0.250	6.4	-4	1/4 - 19	-4	1.89	48	1.06	27	6V0405
1242173	0.375	9.5	-6	3/8 - 19	-6	2.17	55	1.18	30	6V0406
1540111	0.375	9.5	-6	1/2 - 14	-8	2.32	59	1.34	34	6V0407
1242174	0.500	12.7	-8	1/2 - 14	-8	2.32	59	1.34	34	6V0407
1242330	0.500	12.7	-8	3/4 - 14	-12	2.56	65	1.54	39	6V0408
1540112	0.625	15.9	-10	5/8 - 14	-10	2.52	64	1.54	39	8C6504
1242175	0.750	19.1	-12	3/4 - 14	-12	2.83	72	1.61	41	6V0408
1242321	1.000	25.4	-16	1 - 11	-16	3.30	84	1.79	45	6V0409

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Dowty seal is required with a port connection only. No seal is required with a BSPP Female Swivel 60° Cone or Spherical Seat.

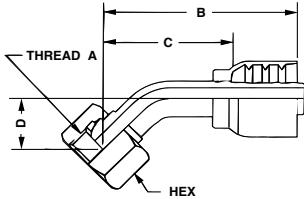
Caterpillar Hose Couplings (716, 294, 844)



BSPP Female Swivel - Spherical Seat

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		BSPP THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1242291	0.250	6.4	-4	1/4 - 19	-4	1.69	43	0.87	22
1540102	0.250	6.4	-4	1/4 - 19	-4	1.73	44	0.91	23
1540103	0.375	9.5	-6	3/8 - 19	-6	1.93	49	0.91	23
1242292	0.375	9.5	-6	3/8 - 19	-6	1.97	50	0.94	24
1540113	0.375	9.5	-6	1/2 - 14	-8	1.93	49	0.94	24
1540104	0.500	12.7	-8	1/2 - 14	-8	1.89	48	0.87	22
1242293	0.500	12.7	-8	1/2 - 14	-8	1.97	50	0.98	25
1540114	0.625	15.9	-10	5/8 - 14	-10	2.09	53	1.10	28
1540105	0.750	19.1	-12	3/4 - 14	-12	2.36	60	1.14	29
1242294	0.750	19.1	-12	3/4 - 14	-12	2.40	61	1.18	30
1242295	1.000	25.4	-16	1 - 11	-16	2.64	67	1.14	29
1242337	1.250	31.8	-20	1 1/4 - 11	-20	3.11	79	1.54	39

Note: Interchangeable with JIS 60 Cone Female Swivel.

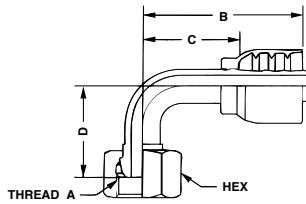


BSPP Female Swivel - Spherical Seat - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		BSPP DOWTY SEAL
	(in)	(mm)		BSPP THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
1242296	0.250	6.4	-4	1/4 - 19	-4	2.28	58	1.46	37	0.71	18	6V0405
1242297	0.375	9.5	-6	3/8 - 19	-6	2.80	71	1.77	45	0.79	20	6V0406
1242298	0.500	12.7	-8	1/2 - 14	-8	2.95	75	1.97	50	0.79	20	6V0407
1242299	0.750	19.1	-12	3/4 - 14	-12	3.78	96	2.56	65	1.06	27	6V0408
1242300	1.000	25.4	-16	1 - 11	-16	4.76	121	3.27	83	1.14	29	6V0409

NOTE: Interchangeable with JIS 60° Cone Female Swivel.

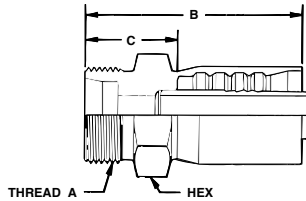
Caterpillar Hose Couplings (716, 294, 844)



BSPP Female Swivel - Spherical Seat - 90° Elbow

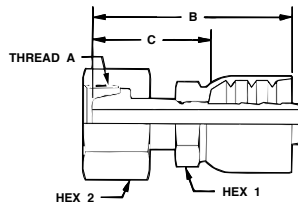
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A BSPP THREAD		B LENGTH		C CUT-OFF FACTOR		D DROP		BSPP DOWTY SEAL
	(in)	(mm)		SIZE (in - TPI)	SIZE DASH	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1242301	0.250	6.4	-4	1/4 - 19	-4	1.81	46	0.98	25	1.18	30	6V0405
1242302	0.375	9.5	-6	3/8 - 19	-6	2.28	58	1.30	33	1.46	37	6V0406
1242303	0.500	12.7	-8	1/2 - 14	-8	2.52	64	1.54	39	1.50	38	6V0407
1242304	0.750	19.1	-12	3/4 - 14	-12	3.31	84	2.09	53	2.32	59	6V0408
1242305	1.000	25.4	-16	1 - 11	-16	4.29	109	2.80	71	2.56	65	6V0409
1242306	1.250	31.8	-20	1 1/4 - 11	-20	5.00	127	3.43	87	3.19	81	9X7423

NOTE: Interchangeable with JIS 60° Cone Female Swivel.



French Gaz Male

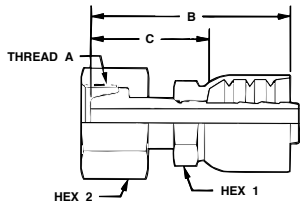
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD		B LENGTH		C CUT-OFF FACTOR		
	(in)	(mm)		SIZE (dia x pitch)	METRIC TUBE O.D.	(in)	(mm)	(in)	(mm)	
1242307	0.312	7.9	-5	M20 x 1.5	0.52	13	2.13	54	1.10	28
1242308	0.375	9.5	-6	M20 x 1.5	0.52	13	2.09	53	1.10	28
1242309	0.500	12.7	-8	M24 x 1.5	0.66	17	2.13	54	1.14	29
1242310	0.625	15.9	-10	M30 x 1.5	0.83	21	2.28	58	1.30	33
1242311	0.750	19.1	-12	M36 x 1.5	1.05	27	2.60	66	1.38	35
1242312	1.000	25.4	-16	M45 x 1.5	1.32	34	3.07	78	1.57	40



French Gaz Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD		B LENGTH		C CUT-OFF FACTOR		
	(in)	(mm)		SIZE (dia x pitch)	METRIC TUBE O.D.	(in)	(mm)	(in)	(mm)	
1242313	0.312	7.9	-5	M20 x 1.5	0.52	13	2.13	54	1.10	28
1242314	0.375	9.5	-6	M20 x 1.5	0.52	13	2.09	53	1.10	28
1242315	0.500	12.7	-8	M24 x 1.5	0.66	17	2.28	58	1.30	33
1242316	0.625	15.9	-10	M30 x 1.5	0.83	21	2.32	59	1.34	34
1242317	0.750	19.1	-12	M36 x 1.5	1.05	27	2.87	73	1.65	42
1242318	1.000	25.4	-16	M45 x 1.5	1.32	34	3.23	82	1.73	44

Caterpillar Hose Couplings (716, 294, 844)



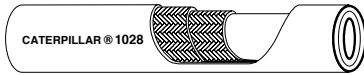
French Metric Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE (dia x pitch)		A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)		
1242319	0.250	6.4	-4	M12 x 1.0	0.24	6	1.78	45	0.95	24	
1242202	0.250	6.4	-4	M14 x 1.5	0.31	8	1.78	45	0.95	24	
1242203	0.312	7.9	-5	M16 x 1.5	0.39	10	2.12	54	1.13	29	
1242204	0.375	9.5	-6	M16 x 1.5	0.39	10	2.07	53	1.08	27	
1242205	0.375	9.5	-6	M18 x 1.5	0.47	12	2.09	53	1.06	27	
1242324	0.375	9.5	-6	M20 x 1.5	0.55	14	1.97	50	0.83	21	
1242207	0.500	12.7	-8	M22 x 1.5	0.59	15	2.11	54	1.12	29	
1242326	0.750	19.1	-12	M30 x 1.5	0.87	22	2.52	64	1.30	33	
1242327	1.000	25.4	-16	M39 x 1.5	1.18	30	2.98	76	1.47	37	

Caterpillar Hose and Couplings (1028)

Caterpillar Thermoplastic Hose (1028)	116
Caterpillar (1028) Permanent Couplings	
NPTF	117
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Caterpillar Hose (1028)



Thermoplastic Hose (1028)**

Exceeds the requirements of SAE 100R7 and meets the requirements of Caterpillar 1E945.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
5X2380	0.188	4.8	-3	0.43	10.9	12,000	84,000	3,000	21,000	0.75	19
9X2381	0.250	6.4	-4	0.51	13.0	10,857	76,000	2,714	19,000	1.26	32
9X2382	0.312	7.9	-5	0.57	14.5	9,714	68,000	2,429	17,000	1.73	44
9X2383	0.375	9.5	-6	0.65	16.5	8,571	60,000	2,143	15,000	2.01	51
9X2384	0.500	12.7	-8	0.81	20.6	8,000	56,000	2,000	14,000	2.99	76
9X2385	0.750	19.1	-12	1.06	26.9	4,857	34,000	1,214	8,500	5.00	125
9X2386***	0.312	7.9	-0505	0.57	14.5	9,714	68,000	2,429	17,000	1.73	44
9X2387***	0.375	9.5	-0606	0.65	16.5	8,571	60,000	2,143	15,000	2.01	51

Construction: Elastomeric core tube, two fiber braid reinforcement, special polyester cover. All layers bonded.

Application: Medium pressure service with petroleum base hydraulic fluids, water glycol, and water-oil fire resistant hydraulic fluids. Hydraulic systems exposed to very low temperatures. Ideal for use at low temperature on fork lift trucks in refrigerated warehouses, and earthmoving and agricultural machinery for cold climates.

Temperature Range: -70° F to +135° F (-56° C to +70° C) for water glycol and water-oil resistant hydraulic fluids.
-70° F to 212° F (-56° C to +100° C) for all other applications.

Couplings: Crimp-on, swage-on permanent, non-skive type - see [pages 117-122](#). For related assembly equipment and tooling, see [pages 277-310](#).

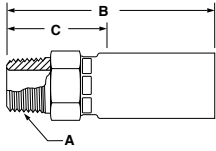
Note: Hose cover does not need to be removed before attaching couplings.

* CENTERLINE OF HOSE

** SOLD BY THE INCH

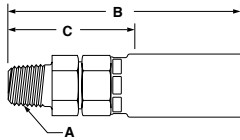
*** TWIN LINE HOSE

Caterpillar Hose Couplings (1028)



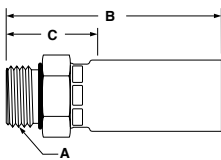
Male NPTF Pipe

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
5P5499	0.188	4.8	-3	1/8 - 27	-2	2.01	51	1.02	26
9X3905	0.188	4.8	-3	1/4 - 18	-4	2.17	55	1.18	30
9X3907	0.188	4.8	-3	3/8 - 18	-6	2.28	58	1.14	29
5P5498	0.250	6.4	-4	1/8 - 27	-2	2.13	54	1.02	26
5P5497	0.250	6.4	-4	1/4 - 18	-4	2.32	59	1.18	30
9X3908	0.250	6.4	-4	3/8 - 18	-6	2.40	61	1.30	33
9X3906	0.312	7.9	-5	1/4 - 18	-4	2.32	59	1.18	30
9X3909	0.312	7.9	-5	3/8 - 18	-6	2.40	61	1.30	33
5P5496	0.375	9.5	-6	1/4 - 18	-4	2.60	66	1.30	33
9X3910	0.375	9.5	-6	3/8 - 18	-6	2.60	66	1.30	33
9X3912	0.375	9.5	-6	1/2 - 14	-8	2.83	72	1.57	40
9X3911	0.500	12.7	-8	3/8 - 18	-6	2.80	71	1.30	33
5P5495	0.500	12.7	-8	1/2 - 14	-8	3.03	77	1.54	39



Male NPTF Pipe Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
9X3920	0.188	4.8	-3	1/4 - 18	-4	2.72	69	1.73	44
9X3921	0.250	6.4	-4	1/4 - 18	-4	2.83	72	1.73	44

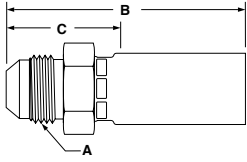


Straight Thread O-Ring Boss

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
5P5484	0.188	4.8	-3	7/16 - 20	-4	1.97	50	0.98	25	3J7354

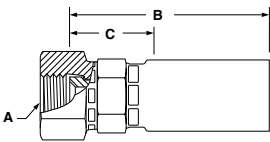
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose Couplings (1028)



JIC 37° Male

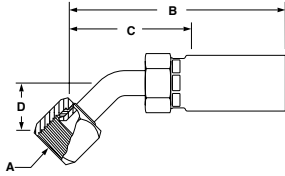
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
5P5493	0.250	6.4	-4	7/16 - 20	-4	2.28	58	1.18	30
5P5492	0.375	9.5	-6	9/16 - 18	-6	2.60	66	1.30	33
9X3948	0.750	19.1	-12	1 1/16 - 12	-12	3.31	84	1.65	42



JIC 37° Female Swivel

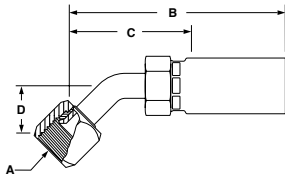
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
5P5507	0.188	4.8	-3	7/16 - 20	-4	1.89	48	0.91	23
9X3916	0.188	4.8	-3	1/2 - 20	-5	1.89	48	0.87	22
5P5509	0.250	6.4	-4	7/16 - 20	-4	2.17	55	1.02	26
5P5506	0.250	6.4	-4	1/2 - 20	-5	2.13	54	0.98	25
5P5505	0.250	6.4	-4	9/16 - 18	-6	2.13	54	0.98	25
9X3917	0.312	7.9	-5	1/2 - 20	-5	2.13	54	0.98	25
0350656	0.312	7.9	-5	9/16 - 18	-6	2.13	54	0.98	25
0690478	0.375	9.5	-6	9/16 - 18	-6	2.40	61	1.14	29
0692306	0.375	9.5	-6	3/4 - 16	-8	2.36	60	1.06	27
5P5503	0.500	12.7	-8	3/4 - 16	-8	2.72	69	1.22	31
5P5504	0.500	12.7	-8	7/8 - 14	-10	2.64	67	1.14	29
9X3919	0.500	12.7	-8	1 1/16 - 12	-12	2.64	67	1.14	29
9X3949	0.750	19.1	-12	7/8 - 14	-10	2.87	73	1.18	30
5P5501	0.750	19.1	-12	1 1/16 - 12	-12	2.83	72	1.14	29

Caterpillar Hose Couplings (1028)



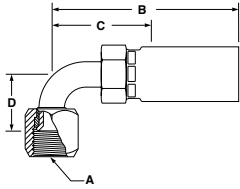
JIC 37° Female Swivel - 45° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
5P5491	0.188	4.8	-3	7/16 - 20	-4	2.48	63	1.50	38	0.31	8
9X3922	0.250	6.4	-4	7/16 - 20	-4	2.48	63	1.50	38	0.31	8
9X3923	0.250	6.4	-4	1/2 - 20	-5	2.48	63	1.50	38	0.35	9
0352181	0.312	7.9	-5	9/16 - 18	-6	2.72	69	1.57	40	0.39	10
5P5490	0.375	9.5	-6	9/16 - 18	-6	2.91	74	1.57	40	0.39	10
5P5489	0.375	9.5	-6	3/4 - 16	-8	3.19	81	1.85	47	0.55	14
6V5858	0.500	12.7	-8	3/4 - 16	-8	3.39	86	1.85	47	0.55	14
9X3951	0.750	19.1	-12	1 1/16 - 12	-12	4.06	103	2.36	60	0.79	20



JIC 37° Female Swivel - 45° Elbow - Long

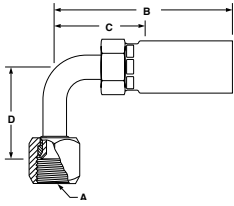
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
9X3953	0.375	9.5	-6	9/16 - 18	-6	3.27	83	1.89	48	0.59	15
9X3954	0.375	9.5	-6	3/4 - 16	-8	3.54	90	2.13	54	0.71	18



JIC 37° Female Swivel - 90° Elbow - Short

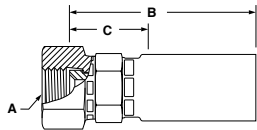
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
9X3926	0.188	4.8	-3	7/16 - 20	-4	2.32	59	1.38	35	0.87	22
0542271	0.250	6.4	-4	7/16 - 20	-4	2.48	63	1.38	35	0.87	22
5P5488	0.250	6.4	-4	1/2 - 20	-5	2.52	64	1.46	37	0.87	22
0353386	0.312	7.9	-5	9/16 - 18	-6	2.68	68	1.50	38	1.10	28
5P5485	0.375	9.5	-6	9/16 - 18	-6	2.87	73	1.50	38	1.10	28
5P5479	0.375	9.5	-6	3/4 - 16	-8	2.99	76	1.61	41	1.38	35
5P7452	0.500	12.7	-8	3/4 - 16	-8	3.19	81	1.61	41	1.38	35
9X3952	0.750	19.1	-12	1 1/16 - 12	-12	4.29	109	1.54	39	2.05	52

Caterpillar Hose Couplings (1028)



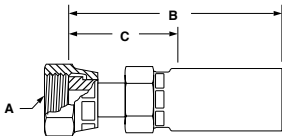
JIC 37° Female Swivel - 90° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
9X3924	0.188	4.8	-3	7/16 - 20	-4	2.36	60	1.38	35	2.17	55
5P5486	0.250	6.4	-4	1/2 - 20	-5	3.43	87	1.30	33	1.81	46
0379239	0.312	7.9	-5	9/16 - 18	-6	2.48	63	1.38	35	2.17	55
6V6222	0.375	9.5	-6	9/16 - 18	-6	2.68	68	1.38	35	2.17	55
5P5480	0.375	9.5	-6	3/4 - 16	-8	3.03	77	1.73	44	2.44	62
5P7453	0.500	12.7	-8	3/4 - 16	-8	3.19	81	1.73	44	2.44	62



SAE 45° Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)
0692120	0.375	9.5	-6	5/8 - 18	-6	2.80	71	1.50	38

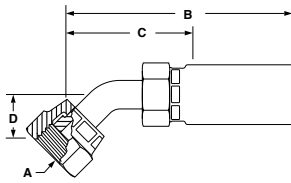


ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	
6V9586	0.250	6.4	-4	9/16 - 18	-4	2.64	67	1.50	38	4J5477
9X3955	0.250	6.4	-4	11/16 - 16	-6	2.60	66	1.50	38	6V8397
9X3960	0.312	7.9	-5	11/16 - 16	-6	2.60	66	1.50	38	6V8397
6V9587	0.375	9.5	-6	11/16 - 16	-6	2.95	75	1.65	42	6V8397
6V9588	0.500	12.7	-8	13/16 - 16	-8	3.31	84	1.81	46	6V8398
6V9589	0.750	19.1	-12	13/16 - 12	-12	3.86	98	2.17	55	6V9746

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

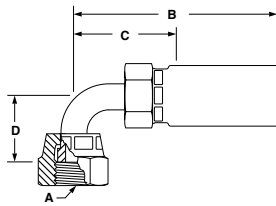
Caterpillar Hose Couplings (1028)



ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
6V9590	0.250	6.4	-4	9/16 - 18	-4	2.68	68	1.54	39	0.39	10	4J5477
6V9591	0.375	9.5	-6	11/16 - 16	-6	2.99	76	1.65	42	0.43	11	6V8397
6V9592	0.500	12.7	-8	13/16 - 16	-8	3.43	87	1.93	49	0.59	15	6V8398
8T5377	0.750	19.1	-12	13/16 - 12	-12	3.66	93	1.97	50	0.83	21	6V9746

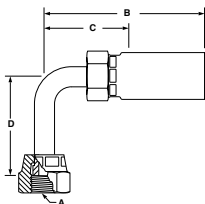
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 90° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
6V9593	0.250	6.4	-4	9/16 - 18	-4	2.48	63	1.38	35	0.79	20	4J5477
0903623	0.312	7.9	-5	11/16 - 16	-6	2.68	68	1.54	39	0.91	23	6V8397
6V9594	0.375	9.5	-6	11/16 - 16	-6	2.83	72	1.54	39	0.91	23	6V8397
6V9595	0.500	12.7	-8	13/16 - 16	-8	3.15	80	1.65	42	1.14	29	6V8398
6V9596	0.750	19.1	-12	13/16 - 12	-12	3.82	97	2.13	54	1.85	47	6V9746

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

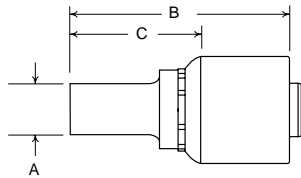


ORFS Female Swivel - 90° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
6V9597	0.250	6.4	-4	9/16 - 18	-4	2.44	62	1.30	33	1.81	46	4J5477
6V9598	0.375	9.5	-6	11/16 - 16	-6	2.95	75	1.61	41	2.13	54	6V8397
6V9599	0.500	12.7	-8	13/16 - 16	-8	3.23	82	1.69	43	2.52	64	6V8398
6V9600	0.750	19.1	-12	13/16 - 12	-12	3.86	98	2.17	55	3.78	96	6V9746

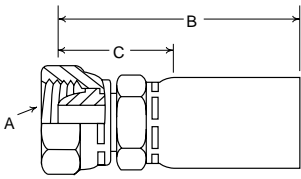
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose Couplings (1028)



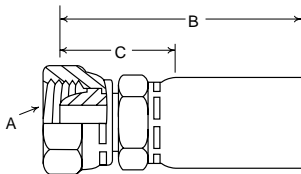
Metric Standpipe - Light Series

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
3E4020	0.250	6.4	-4	0.32	8	2.60	66	1.42	36
3E4021	0.312	7.9	-5	0.39	10	2.76	70	1.46	37



Metric Female Swivel - Spherical Seat - Light Series (DIN 20078)

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A METRIC THREAD SIZE		A METRIC TUBE O.D.		B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(dia x pitch)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
3E4013	0.188	4.8	-3	M12 x 1.5	0.24	6	2.05	52	0.98	25	
3E4014	0.250	6.4	-4	M14 x 1.5	0.32	8	2.24	57	1.06	27	
3E4015	0.312	7.9	-5	M16 x 1.5	0.39	10	2.36	60	1.06	27	
3E4016	0.375	9.5	-6	M16 x 1.5	0.39	10	2.64	67	1.14	29	
3E4017	0.375	9.5	-6	M18 x 1.5	0.47	12	2.68	68	1.14	29	
3E4018	0.500	12.7	-8	M22 x 1.5	0.59	15	2.91	74	1.22	31	



BSPP Female Swivel - Spherical Seat

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A BSPP THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		BSPP DOWTY SEAL
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	
3E4025	0.188	4.8	-3	1/4 - 19	-4	1.73	44	1.10	28	6V0405
3E4026	0.250	6.4	-4	1/4 - 19	-4	2.24	57	1.02	26	6V0405
3E4027	0.312	7.9	-5	3/8 - 19	-6	2.36	60	1.06	27	6V0406
3E4028	0.375	9.5	-6	3/8 - 19	-6	2.56	65	1.06	27	6V0406
3E4029	0.500	12.7	-8	1/2 - 14	-8	2.91	74	1.22	31	6V0407
3E4030	0.500	12.7	-8	5/8 - 14	-10	3.27	83	1.34	34	8C6504

NOTE: Interchangeable with JIS 60° Cone Female Swivel.

Caterpillar Hose and Couplings (2760)

Caterpillar Reduced Outside Diameter Thermoplastic Hose (2760) . 124

Caterpillar (2760) Permanent Couplings

NPTF	125
JIC 37°	125
ORFS	128

Caterpillar Hose (2760)



Reduced Outside Diameter Thermoplastic Hose (2760)**

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	MAX. HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
1357853	0.250	6.4	-4	0.42	10.7	6,000	41,400	1,500	10,335	1.50	38
1357854	0.313	7.9	-5	0.53	13.5	6,000	41,400	1,500	10,335	1.75	44
1357855	0.375	9.5	-6	0.57	14.5	6,000	41,400	1,500	10,335	2.50	63
1357856	0.500	12.7	-8	0.71	18.3	6,000	41,400	1,500	10,335	3.00	76

Construction: Thermoplastic or synthetic rubber inner tube resistant to hydraulic fluids with suitable fibers or wire reinforcement and a hydraulic fluid and weather resistant thermoplastic or synthetic rubber cover.

Application: Medium pressure use with petroleum or water base, and synthetic hydraulic fluids.

Temperature Range: -40° F to +212° F (-40° C to +100° C)

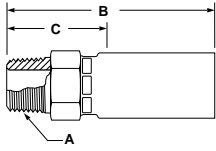
Couplings: Crimp-on, non-skive type - see [pages 125 - 130](#). For related assembly equipment and tooling, see [pages 277-310](#).

Note: Hose cover does not need to be removed before attaching couplings.

* CENTERLINE OF HOSE

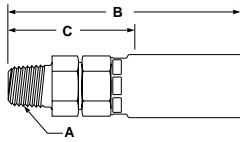
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Caterpillar Hose Couplings (2760)



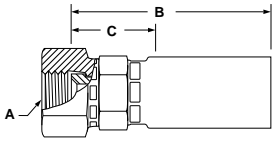
Male NPTF Pipe

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1463404	0.250	6.4	-4	1/8 - 27	-2	1.50	38	0.87	22
1463405	0.250	6.4	-4	1/4 - 18	-4	1.77	45	1.14	29



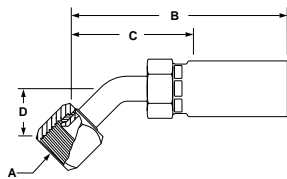
Male NPTF Pipe Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1463412	0.250	6.4	-4	1/4 - 18	-4	2.28	58	1.61	41



JIC 37° Female Swivel

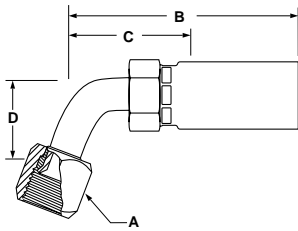
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1463367	0.250	6.4	-4	7/16 - 20	-4	1.26	32	0.67	17
1463368	0.375	9.5	-6	9/16 - 18	-6	1.57	40	0.79	20
1463369	0.500	12.7	-8	3/4 - 16	-8	1.61	41	0.79	20



JIC 37° Female Swivel - 45° Elbow

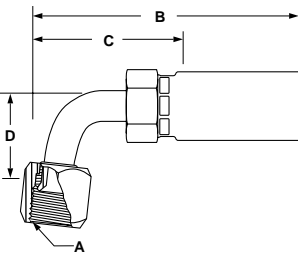
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1463374	0.375	9.5	-6	9/16 - 18	-6	2.48	63	1.42	36	0.71	18
1463376	0.500	12.7	-8	3/4 - 16	-8	2.87	73	2.05	52	0.91	23

Caterpillar Hose Couplings (2760)



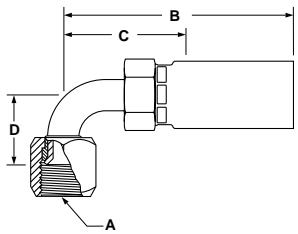
JIC 37° Female Swivel - 65 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1463377	0.375	9.5	-6	9/16 - 18	-6	2.91	74	2.09	53	2.24	57
1463378	0.375	9.5	-6	9/16 - 18	-6	3.07	78	2.24	57	2.56	65



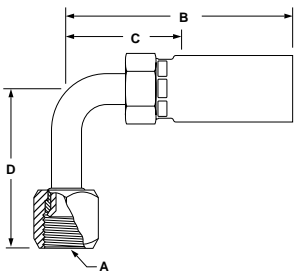
JIC 37° Female Swivel - 80° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1463380	0.375	9.5	-6	9/16 - 18	-6	2.20	56	1.38	35	1.38	35
1463381	0.375	9.5	-6	9/16 - 18	-6	2.36	60	1.57	40	2.32	59



JIC 37° Female Swivel - 90° Elbow - Short

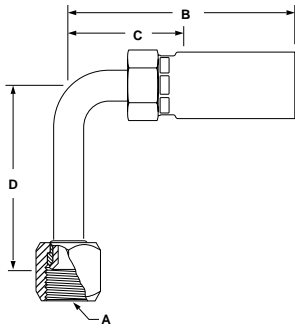
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1463382	0.250	6.4	-4	7/16 - 20	-4	1.69	43	1.06	27	0.71	18
1463379	0.250	6.4	-4	7/16 - 20	-4	1.69	43	1.06	27	1.06	27
1463384	0.375	9.5	-6	9/16 - 18	-6	2.05	52	1.26	32	0.87	22
1463385	0.500	12.7	-8	3/4 - 16	-8	2.32	59	1.50	38	1.10	28



JIC 37° Female Swivel - 90° Elbow - Medium

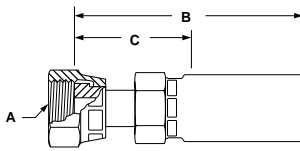
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
1463387	0.375	9.5	-6	9/16 - 18	-6	2.05	52	1.26	32	1.10	28
1463398	0.500	12.7	-8	3/4 - 16	-8	2.32	59	1.50	38	1.81	46

Caterpillar Hose Couplings (2760)



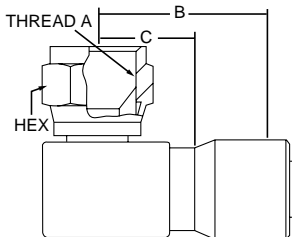
JIC 37° Female Swivel - 90° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
1463418	0.250	6.4	-4	7/16 - 20	-4	1.69	43	1.06	27	1.97	50
1463392	0.250	6.4	-4	7/16 - 20	-4	1.69	43	1.06	27	2.48	63
1463393	0.375	9.5	-6	9/16 - 18	-6	2.05	52	1.26	32	2.20	56
1463394	0.375	9.5	-6	3/4 - 16	-8	2.05	52	1.26	32	2.52	64
1463395	0.500	12.7	-8	3/4 - 16	-8	2.32	59	1.50	38	2.52	64



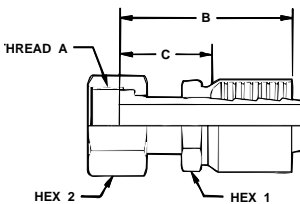
JIC 37° Male Bulkhead

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)
1463445	0.250	6.4	-4	7/16 - 20	-4	2.36	60	1.69	43
1463444	0.375	9.5	-6	9/16 - 18	-6	2.72	69	1.89	48



JIC 37° Female Swivel Block - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
1463399	0.500	12.7	-8	3/4 - 16	-8	1.73	44	0.91	23	0.87	22

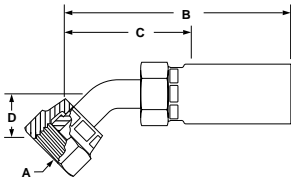


ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	
1463338	0.250	6.4	-4	9/16 - 18	-4	1.65	42	0.98	25	4J5477
1463350	0.250	6.4	-4	11/16 - 16	-6	1.73	44	1.06	27	6V8397
1463339	0.312	7.9	-5	11/16 - 16	-6	1.81	46	1.02	26	6V8397
1463340	0.375	9.5	-6	11/16 - 16	-6	1.85	47	1.02	26	6V8397
1463342	0.500	12.7	-8	13/16 - 16	-8	2.05	52	1.22	31	6V8398

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

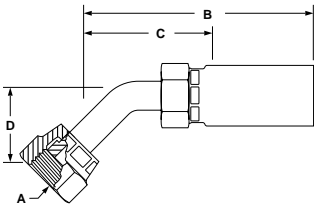
Caterpillar Hose Couplings (2760)



ORFS Female Swivel - 45° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1463344	0.312	7.9	-5	11/16 - 16	-6	2.09	53	1.30	33	0.43	11	6V8397
1463345	0.375	9.5	-6	11/16 - 16	-6	2.20	56	1.38	35	0.43	11	6V8397
1463346	0.500	12.7	-8	13/16 - 16	-8	2.56	65	1.73	44	0.59	15	6V8398

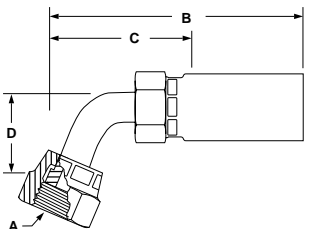
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 45° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1463397	0.375	9.5	-6	11/16 - 16	-6	2.48	63	1.65	42	0.71	18	6V8397
1463347	0.500	12.7	-8	13/16 - 16	-8	2.87	73	2.05	52	0.91	23	6V8398

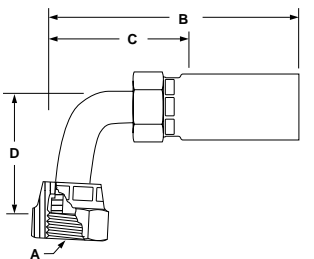
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 65 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1463348	0.375	9.5	-6	11/16 - 16	-6	2.95	75	2.17	55	2.40	61	6V8397
1463349	0.375	9.5	-6	11/16 - 16	-6	3.07	78	2.24	57	2.60	66	6V8397

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

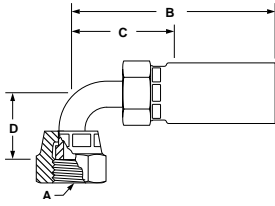


ORFS Female Swivel - 80° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1463351	0.375	9.5	-6	11/16 - 16	-6	2.20	56	1.42	36	1.38	35	6V8397
1463352	0.375	9.5	-6	11/16 - 16	-6	2.36	60	1.57	40	2.32	59	6V8397

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

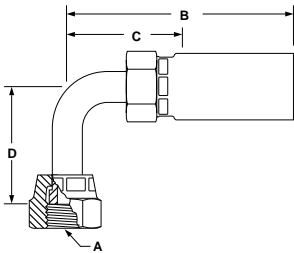
Caterpillar Hose Couplings (2760)



ORFS Female Swivel - 90° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1463353	0.250	6.4	-4	9/16 - 18	-4	1.69	43	1.06	27	0.79	20	4J5477
1463355	0.312	7.9	-5	11/16 - 16	-6	1.93	49	1.14	29	0.91	23	6V8397
1463356	0.312	7.9	-5	11/16 - 16	-6	1.93	49	1.14	29	1.14	29	6V8397
1463357	0.375	9.5	-6	11/16 - 16	-6	2.05	52	1.26	32	0.91	23	6V8397
1463358	0.375	9.5	-6	11/16 - 16	-6	2.05	52	1.26	32	1.22	31	6V8397
1463359	0.500	12.7	-8	13/16 - 16	-8	2.32	59	1.50	38	1.14	29	6V8398

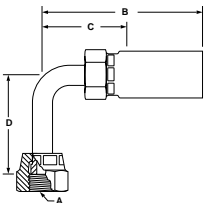
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 90° Elbow - Medium

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1463360	0.250	6.4	-4	9/16 - 18	-4	1.69	43	1.06	27	1.26	32	4J5477
1463361	0.375	9.5	-6	11/16 - 16	-6	2.05	52	1.26	32	1.54	39	6V8397
1463363	0.500	12.7	-8	13/16 - 16	-8	2.32	59	1.50	38	1.38	35	6V8398
1463362	0.500	12.7	-8	13/16 - 16	-8	2.32	59	1.50	38	1.61	41	6V8398

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel - 90° Elbow - Long

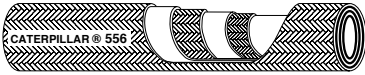
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1463364	0.250	6.4	-4	9/16 - 18	-4	1.69	43	1.06	27	1.81	46	4J5477
1463365	0.375	9.5	-6	11/16 - 16	-6	2.05	52	1.26	32	2.13	54	6V8397
1463366	0.500	12.7	-8	13/16 - 16	-8	2.32	59	1.50	38	2.52	64	6V8398

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose and Couplings (556, 1130)

Caterpillar One-Wire Braid Hose - Fabric Covered (556)	132
Caterpillar Engine and Air Brake Hose (1130)	133
Caterpillar (556,1130) Reusable Couplings	
NPTF	134
JIC 37°	134
SAE	136
SAE Code 61 Flange	138
ORFS	139

Caterpillar Hose (556, 1130)



One-Wire Braid Hose - Fabric Covered (556)**

Exceeds the requirements of SAE 100R5.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
9X2362	0.188	4.8	-4	0.52	13.2	12,000	84,000	3,000	21,000	2.99	76
9X2363	0.250	6.4	-5	0.58	14.7	12,000	84,000	3,000	21,000	3.39	86
9X2364	0.312	7.9	-6	0.68	17.3	8,571	60,000	2,143	15,000	4.02	102
9X2365	0.406	10.3	-8	0.77	19.6	8,000	56,000	2,000	14,000	4.61	117
9X2366	0.500	12.7	-10	0.92	23.4	6,857	48,000	1,714	12,000	5.51	140
9X2367	0.625	15.9	-12	1.08	27.4	5,714	40,000	1,429	10,000	6.50	165
9X2368	0.875	22.2	-16	1.23	31.2	3,143	22,000	786	5,500	7.36	187
9X2369	1.125	28.6	-20	1.50	38.1	2,571	18,000	643	4,500	9.02	229
9X2370	1.375	34.9	-24	1.75	44.5	2,000	14,000	500	3,500	10.51	267

Construction: Synthetic rubber tube, textile inner braid, high tensile steel wire braid reinforcement, textile braid cover.

Application: Medium pressure service with petroleum base hydraulic fluids, water-glycol and water-oil fire resistant hydraulic fluids, water, crude and fuel oils, hot oil, diesel fuels, anti-freeze solutions, air. D.O.T. FMVSS 106 Aii Air Brake Approved.

Temperature Range: -40° F to +158° F (-40° C to +70° C) for air and anti-freeze solutions.

-40° F to +185° F (-40° C to +85° C) for water glycol and water-oil fire resistant hydraulic fluids, water, crude and fuel oils, hot oil, and diesel fuels.

-20° F to +250° F*** (-29° C to +120° C***) for all other applications.

Couplings: Screw-type reusable, non-skive type-pages 134-140. For assembly instructions, see page 140.

Note: Hose cover does not need to be removed before attaching couplings.

* CENTERLINE OF HOSE

** SOLD BY THE INCH

*** Usage at temperatures exceeding +200° F (+120° C) is based on reduced working pressure.

Caterpillar Hose (556, 1130)



Engine And Air Brake Hose (1130)**

Exceeds the requirements of SAE J1402.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
9X2371	0.188	4.8	-4	0.52	13.2	8,000	56,000	2,000	14,000	0.75	19
9X2372	0.250	6.4	-5	0.58	14.7	5,714	40,000	1,429	10,000	0.98	25
9X2373	0.312	7.9	-6	0.68	17.3	5,714	40,000	1,429	10,000	1.26	32
9X2374	0.406	10.3	-8	0.77	19.6	4,857	34,000	1,214	8,500	1.73	44
9X2375	0.500	12.7	-10	0.92	23.4	4,000	28,000	1,000	7,000	2.24	57
9X2376	0.625	15.9	-12	1.08	27.4	2,857	20,000	714	5,000	2.76	70
9X2377	0.875	22.2	-16	1.23	31.2	1,600	11,200	400	2,800	3.50	89
9X2378	1.125	28.6	-20	1.50	38.1	1,143	8,000	286	2,000	4.49	114
9X2379	1.375	34.9	-24	1.75	44.5	971	6,800	243	1,700	5.51	140

Construction: Synthetic rubber tube, textile inner braid, high tensile steel wire braid reinforcement, textile braid cover.

Application: Air, engine oil, water, lubricating oils, diesel fuel, petroleum base hydraulic oils D.O.T. FMVSS 160 All Air Brake approved. U.S. Coast Guard 46CFR56.60-25C approved.

Temperature Range: -40° F to +158° F (-40° C to +70° C) for air.

-40° F to +185° F (-40° C to +85° C) for water based fluids.

-40° F to +275° F (-40° C to +135° C) for all other applications.

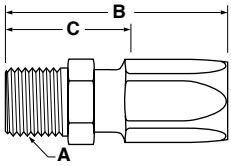
Couplings: Screw-type reusable, non-skive type see [pages 134-140](#). For assembly instructions, see [page 140](#).

Note: Hose cover does not need to be removed before attaching couplings.

* CENTERLINE OF HOSE

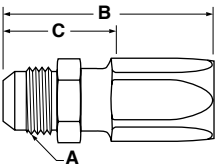
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Caterpillar Hose Couplings (556, 1130)



Male NPTF Pipe

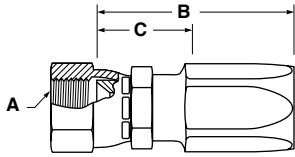
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
1L3664	0.188	4.8	-4	1/8 - 27	-2	1.69	43	0.94	24
1L2287	0.188	4.8	-4	1/4 - 18	-4	1.85	47	1.10	28
9X3807	0.250	6.4	-5	1/8 - 27	-2	1.77	45	0.98	25
9X3808	0.250	6.4	-5	1/4 - 18	-4	1.97	50	1.18	30
9X3809	0.312	7.9	-6	1/4 - 18	-4	2.13	54	1.22	31
9X3810	0.312	7.9	-6	3/8 - 18	-6	2.13	54	1.22	31
1L1699	0.406	10.3	-8	3/8 - 18	-6	2.48	63	1.34	34
9X3812	0.406	10.3	-8	1/2 - 14	-8	2.72	69	1.57	40
9X3813	0.500	12.7	-10	1/2 - 14	-8	2.87	73	1.57	40
9X3814	0.500	12.7	-10	3/4 - 14	-12	2.95	75	1.65	42
9X3815	0.625	15.9	-12	3/4 - 14	-12	3.23	82	1.65	42
9X3816	0.875	22.2	-16	3/4 - 14	-12	2.80	71	1.54	39
1L1480	0.875	22.2	-16	1 - 11 1/2	-16	2.99	76	1.73	44
3L3870	1.125	28.6	-20	1 1/4 - 11 1/2	-20	3.23	82	1.89	48
1L0767	1.375	34.9	-24	1 1/2 - 11 1/2	-24	3.46	88	2.05	52



JIC 37° Male

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
0680601	0.312	7.9	-6	9/16 - 18	-6	2.13	54	1.22	31
0680554	0.406	10.3	-8	3/4 - 16	-8	2.56	65	1.42	36
9X3947	0.875	22.2	-16	1 5/16 - 12	-16	2.95	75	1.77	45

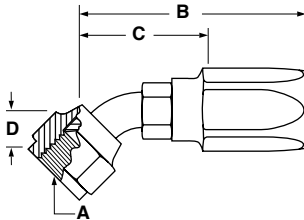
Caterpillar Hose Couplings (556, 1130)



JIC 37° Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
0016285	0.188	4.8	-4	7/16 - 20	-4	1.61	41	0.98	25
9X3821	0.250	6.4	-5	7/16 - 20	-4	1.73	44	0.94	24
0532295	0.250	6.4	-5	1/2 - 20	-5	1.73	44	0.98	25
9X3823	0.250	6.4	-5	9/16 - 18	-6	1.85	47	1.10	28
0016286	0.312	7.9	-6	9/16 - 18	-6	1.97	50	1.06	27
0016287	0.406	10.3	-8	3/4 - 16	-8	2.44	62	1.18	30
9X3826	0.500	12.7	-10	3/4 - 16	-8	2.56	65	1.26	32
0616746	0.500	12.7	-10	7/8 - 14	-10	2.60	66	1.30	33
9X3957	0.500	12.7	-10	1 1/16 - 12	-12	2.56	65	1.34	34
5P7759	0.625	15.9	-12	7/8 - 14	-10	2.87	73	1.50	38
0016289	0.625	15.9	-12	1 1/16 - 12	-12	2.60	66	1.34	34
9X3830	0.875	22.2	-16	1 5/16 - 12	-16	2.60	66	1.34	34
3L9762	1.125	28.6	-20	1 5/8 - 12	-20	2.91	74	1.57	40
9X3832	1.375	34.9	-24	1 7/8 - 12	-24	3.19	81	1.73	44

NOTE: Thread sizes -4,-5,-8, and -10 have a dual seat angle and will mate to an SAE 45° male fitting.

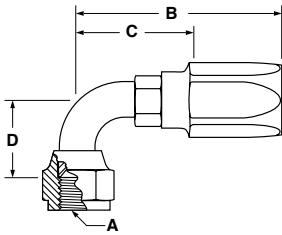


JIC 37° Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
9X3854	0.188	4.8	-4	7/16 - 20	-4	1.85	47	1.10	28	0.31	8
9X3855	0.250	6.4	-5	1/2 - 20	-5	2.09	53	1.30	33	0.35	9
0680599	0.312	7.9	-6	9/16 - 18	-6	2.24	57	1.38	35	0.39	10
9X3857	0.312	7.9	-6	3/4 - 16	-8	2.68	68	1.73	44	0.55	14
0682859	0.406	10.3	-8	3/4 - 16	-8	2.99	76	1.89	48	0.55	14
9X3859	0.500	12.7	-10	7/8 - 14	-10	3.35	85	2.13	54	0.63	16
9X3860	0.625	15.9	-12	1 1/16 - 12	-12	3.78	96	2.44	62	0.79	20
9X3861	0.875	22.2	-16	1 5/16 - 12	-16	3.70	94	2.52	64	0.91	23

NOTE: Thread sizes -4,-5,-8, and -10 have a dual seat angle and will mate to an SAE 45° male fitting.

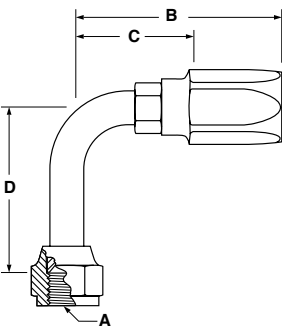
Caterpillar Hose Couplings (556, 1130)



JIC 37° Female Swivel - 90° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in) (mm)	(in) (mm)	(in) (mm)	
0680589	0.188	4.8	-4	7/16 - 20	-4	1.73	44	0.98	25	0.67	17
9X3863	0.250	6.4	-5	1/2 - 20	-5	1.97	50	1.18	30	0.71	18
0680009	0.312	7.9	-6	9/16 - 18	-6	2.20	56	1.38	35	0.87	22
0680556	0.406	10.3	-8	3/4 - 16	-8	2.83	72	1.77	45	1.10	28
0532141	0.500	12.7	-10	7/8 - 14	-10	3.19	81	1.97	50	1.22	31
9X3867	0.625	15.9	-12	1 1/16 - 12	-12	3.90	99	2.40	61	1.81	46
9X3868	0.875	22.2	-16	1 5/16 - 12	-16	3.70	94	2.52	64	2.13	54
9X3869	1.125	28.6	-20	1 5/8 - 12	-20	4.02	102	2.64	67	2.36	60

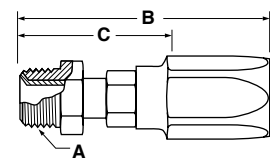
NOTE: Thread sizes -4,-5,-8, and -10 have a dual seat angle and will mate to an SAE 45° male fitting.



JIC 37° Female Swivel - 90° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in) (mm)	(in) (mm)	(in) (mm)	
9X3870	0.188	4.8	-4	7/16 - 20	-4	1.73	44	0.98	25	1.81	46
9X3871	0.250	6.4	-5	1/2 - 20	-5	1.97	50	1.18	30	1.77	45
0324872	0.312	7.9	-6	9/16 - 18	-6	2.13	54	1.22	31	2.17	55
1117666	0.406	10.3	-8	3/4 - 16	-8	2.91	74	1.85	47	2.44	62
9X3874	0.500	12.7	-10	7/8 - 14	-10	3.27	83	2.05	52	2.56	65
9X3875	0.625	15.9	-12	1 1/16 - 12	-12	3.78	96	2.28	58	3.74	95
9X3876	0.875	22.2	-16	1 5/16 - 12	-16	3.54	90	2.36	60	4.33	110

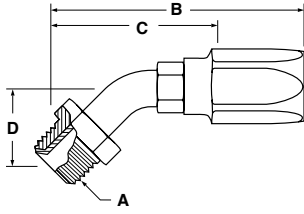
NOTE: Thread sizes -4,-5,-8, and -10 have a dual seat angle and will mate to an SAE 45° male fitting.



SAE Male Inverted Swivel

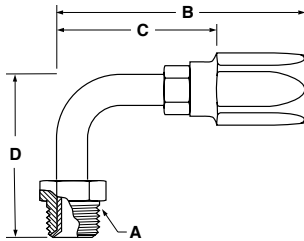
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in) (mm)	
9X3852	0.188	4.8	-4	7/16 - 24	-4	2.44	62	1.69	43
9X3853	0.312	7.9	-6	5/8 - 18	-6	2.72	69	1.81	46
9X3956	0.406	10.3	-8	3/4 - 18	-8	3.15	80	1.97	50

Caterpillar Hose Couplings (556, 1130)



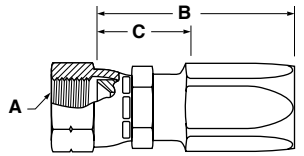
SAE Male Inverted Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
9X3877	0.312	7.9	-6	5/8 - 18	-6	2.99	76	2.09	53	0.94	24



SAE Male Inverted Swivel - 90° Elbow

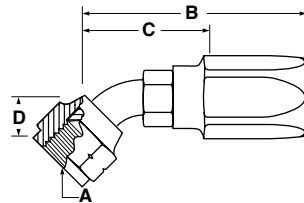
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
9X3878	0.312	7.9	-6	5/8 - 18	-6	2.64	67	1.73	44	1.69	43



SAE 45° Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)
0618863	0.312	7.9	-6	5/8 - 18	-6	2.01	51	1.10	28
0531788	0.625	15.9	-12	1 1/16 - 14	-12	2.91	74	1.46	37

NOTE: See page 108 for additional sizes.

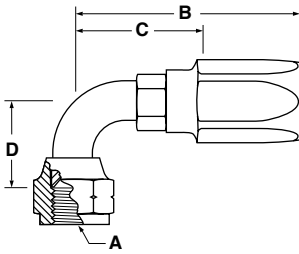


SAE 45° Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)
9X3879	0.312	7.9	-6	5/8 - 18	-6	2.24	57	1.38	35	0.39	10

NOTE: See page 108 for additional sizes.

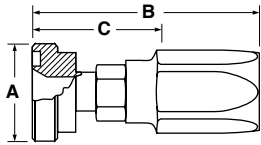
Caterpillar Hose Couplings (556, 1130)



SAE 45° Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		
	(in)	(mm)		(in - TPI)	DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
9X3880	0.312	7.9	-6	5/8	18	-6	2.20	56	1.38	35	0.87	22

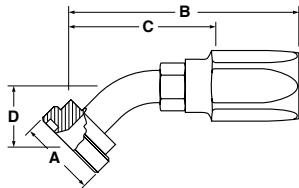
NOTE: See page 114 for additional sizes.



SAE Code 61 Flange

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
9X3840	0.625	15.9	-12	1.50	38.1	-12	3.19	81	1.61	41	4J5267	
9X3841	0.875	22.2	-16	1.75	44.5	-16	2.76	70	1.50	38	4J0520	
9X3842	1.125	28.6	-20	2.00	50.8	-20	3.58	91	2.20	56	4J0522	
9X3843	1.375	34.9	-24	2.37	60.3	-24	4.02	102	2.56	65	4J0524	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

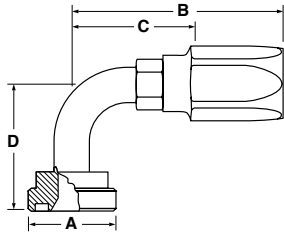


SAE Code 61 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
9X3844	0.625	15.9	-12	1.50	38.1	-12	4.02	102	2.52	64	0.98	25	4J5267	
9X3845	0.875	22.2	-16	1.75	44.5	-16	3.74	95	2.56	65	1.06	27	4J0520	
9X3846	1.125	28.6	-20	2.00	50.8	-20	4.09	104	2.83	72	1.14	29	4J0522	
9X3847	1.375	34.9	-24	2.37	60.3	-24	4.37	111	2.99	76	1.14	29	4J0524	

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

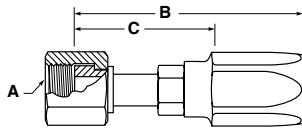
Caterpillar Hose Couplings (556, 1130)



SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)			
9X3848	0.625	15.9	-12	1.50	38.1	-12	3.74	95	2.28	58	2.13	54	4J5267	
9X3849	0.875	22.2	-16	1.75	44.5	-16	3.54	90	2.28	58	2.36	60	4J0520	
9X3850	1.125	28.6	-20	2.00	50.8	-20	4.02	102	2.64	67	2.52	64	4J0522	
9X3851	1.375	34.9	-24	2.37	60.3	-24	4.41	112	2.95	75	2.76	70	4J0524	

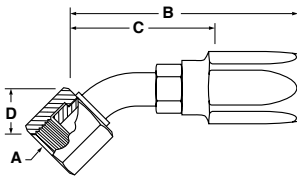
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



ORFS Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		O-RING SEAL
	(in)	(mm)		(in - TPI)	(in - TPI)	(in)	(mm)	(in)	(mm)	
9X3881	0.188	4.9	-4	9/16 - 18	-4	2.13	53	1.42	33	4J5477
7X1463	0.312	7.9	-6	11/16 - 16	-6	2.52	64	1.65	42	6V8397
9X3882	0.406	10.3	-8	13/16 - 16	-8	3.07	78	2.01	51	6V8398
9X3883	0.500	12.7	-10	1 - 14	-10	3.31	84	2.09	53	7J9108
9X3884	0.625	15.9	-12	13/16 - 12	-12	3.74	95	2.24	57	6V9746
9X3885	0.875	22.2	-16	17/16 - 12	-16	3.39	86	2.20	56	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

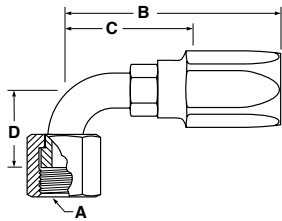


ORFS Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A THREAD SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		(in - TPI)	(in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
9X3886	0.188	4.8	-4	9/16 - 18	-4	2.13	54	1.54	39	0.39	10	4J5477
9X3887	0.312	7.9	-6	11/16 - 16	-6	2.52	64	1.69	43	0.43	11	6V8397
9X3888	0.406	10.3	-8	13/16 - 16	-8	3.19	81	2.09	53	0.59	15	6V8398
9X3889	0.500	12.7	-10	1 - 14	-10	3.46	88	2.24	57	0.67	17	7J9108
9X3890	0.625	15.9	-12	13/16 - 12	-12	3.86	98	2.32	59	0.83	21	6V9746
9X3891	0.875	22.2	-16	17/16 - 12	-16	4.02	102	2.83	72	0.94	24	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

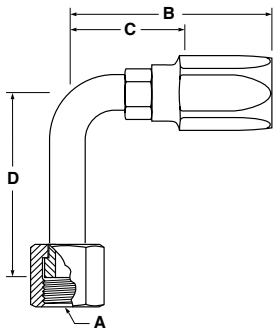
Caterpillar Hose Couplings (556, 1130)



ORFS Female Swivel - 90° Elbow - Short

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
9X3892	0.188	4.8	-4	9/16 - 18	-4	1.97	50	1.54	39	0.79	20	4J5477
9X3893	0.312	7.9	-6	11/16 - 16	-6	2.40	61	1.54	39	0.91	23	6V8397
9X3894	0.406	10.3	-8	13/16 - 16	-8	2.91	74	1.81	46	1.14	29	6V8398
9X3895	0.500	12.7	-10	1 - 14	-10	3.15	80	1.93	49	1.26	32	7J9108
9X3896	0.625	15.9	-12	13/16 - 12	-12	3.74	95	2.24	57	1.89	48	6V9746
9X3897	0.875	22.2	-16	17/16 - 12	-16	3.98	101	2.76	70	2.20	56	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

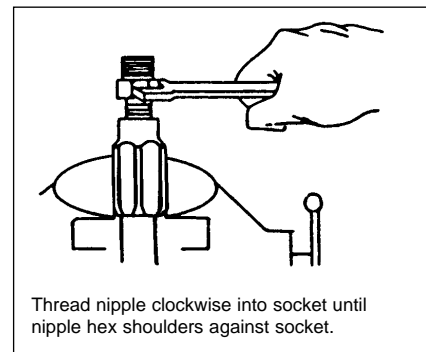
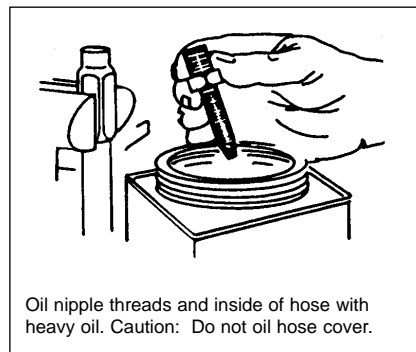
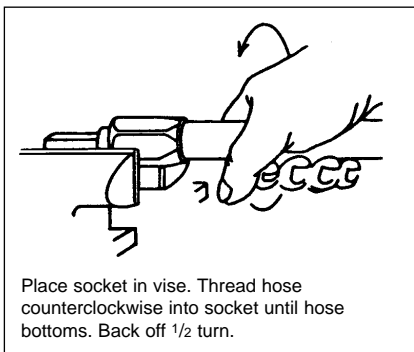


ORFS Female Swivel - 90° Elbow - Long

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
9X3898	0.188	4.8	-4	9/16 - 18	-4	1.97	50	1.73	44	1.81	46	4J5477
9X3899	0.312	7.9	-6	11/16 - 16	-6	2.48	63	1.65	42	2.13	54	6V8397
9X3900	0.406	10.3	-8	13/16 - 16	-8	2.95	75	1.89	48	2.52	64	6V8398
9X3901	0.500	12.7	-10	1 - 14	-10	3.27	83	2.05	52	2.76	70	7J9108
9X3902	0.625	15.9	-12	13/16 - 12	-12	3.78	96	2.28	58	3.78	96	6V9746
9X3903	0.875	22.2	-16	17/16 - 12	-16	3.54	90	2.36	60	4.49	114	5K9090

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Assembly Instructions



Caterpillar Hose and Couplings (1543)

Caterpillar Air Conditioning Hose (1543)	142
Caterpillar (1543) Permanent Couplings	
Male Inverted O-Ring Swivel	143
Tube O-Ring Female Swivel	144
Double Collet	145
Adapter to Self Sealing Fitting	145
Service Valve Fitting	147
Male O-Ring Connector	147

Caterpillar Hose (1543)



Air Conditioning Hose (1543)**

Exceeds the requirements of SAE J51 Type D and meets requirements of SAE J2064 Type D.

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.		MIN. BEND RADIUS*	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)	(in)	(mm)
9X2388	0.312	7.9	-6	0.62	15.7	2,429	17,000	500	3,500	2.01	51
9X2389	0.406	10.3	-8	0.74	18.8	2,429	17,000	500	3,500	2.99	76
9X2390	0.625	15.9	-12	0.96	24.4	2,429	17,000	500	3,500	4.49	114

Construction: Thermoplastic tube, textile braid, elastomeric cover.

Application: Construction, truck and agricultural air conditioning systems.

Moisture Ingression: Less than 16 gm/100 in² per year.

R134 Permeation: 2.0 lbs/ft² per year at 176° F.

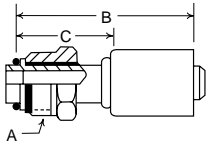
Temperature Range: -22° F to +257° F (-30° C to +125° C)

Couplings: Crimp-on permanent, non-skive type - see [pages 143-147](#). For related assembly equipment and tooling, see [pages 277-310](#).

* CENTERLINE OF HOSE

** SOLD BY THE INCH

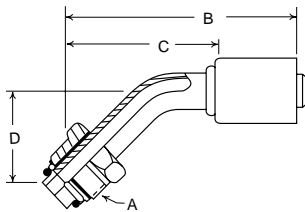
Caterpillar Hose Couplings (1543)



Male Inverted O-Ring Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
7X1818	0.312	7.9	-6	5/8 - 18	-6	3.23	82	1.54	39	9X7380
7X1819	0.406	10.3	-8	3/4 - 18	-8	3.46	88	1.77	45	9X7381
7X1820	0.625	15.9	-12	7/8 - 18	-10	3.62	92	1.97	50	9X7382
9X4006	0.625	15.9	-12	1 1/16 - 16	-12	3.78	96	2.13	54	9X7383

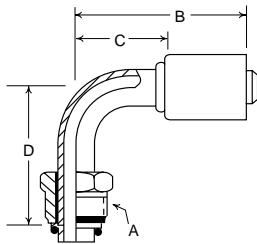
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Male Inverted O-Ring Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
7X1824	0.312	7.9	-6	5/8 - 18	-6	3.43	87	1.77	45	1.02	26	9X7380
7X1825	0.406	10.3	-8	3/4 - 18	-8	3.78	96	2.09	53	1.26	32	9X7381
7X1826	0.625	15.9	-12	7/8 - 18	-10	3.98	101	2.32	59	1.30	33	9X7382

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

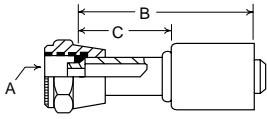


Male Inverted O-Ring Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
7X1821	0.312	7.9	-6	5/8 - 18	-6	2.72	69	1.02	26	1.69	43	9X7380
7X1822	0.406	10.3	-8	3/4 - 18	-8	2.95	75	1.26	32	2.24	57	9X7381
7X1823	0.625	15.9	-12	7/8 - 18	-10	3.23	82	1.50	38	2.24	57	9X7382
9X4000	0.625	15.9	-12	1 1/16 - 16	-12	3.82	97	2.24	57	2.52	64	9X7383

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

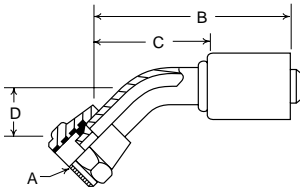
Caterpillar Hose Couplings (1543)



Tube O-Ring Female Swivel

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	
7X1800	0.312	7.9	-6	5/8 - 18	-6	3.15	80	1.38	35	9X7380
9X4011	0.312	7.9	-6	3/4 - 16	-8	3.35	85	1.65	42	9X7381
7X1801	0.406	10.3	-8	3/4 - 16	-8	3.35	85	1.65	42	9X7381
7X1802	0.625	15.9	-12	7/8 - 14	-10	3.54	90	1.81	46	9X7382

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



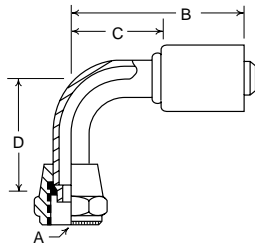
Tube O-Ring Female Swivel - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	CUT-OFF FACTOR (in)	(mm)	(in)	(mm)	
7X1809	0.312	7.9	-6	5/8 - 18	-6	3.78	96	2.09	53	0.71	18	9X7380
7X1810	0.406	10.3	-8	3/4 - 16	-8	3.58	91	1.89	48	0.87	22	9X7381
7X1888*	0.406	10.3	-8	3/4 - 16	-8	4.21	107	2.56	65	1.06	27	9X7381
7X1811	0.625	15.9	-12	7/8 - 14	-10	3.78	96	2.09	53	1.10	28	9X7382
1196228	0.625	15.9	-12	1 1/16 - 14	-12	4.17	106	2.48	63	1.42	36	9X7383

* Has Schrader Valve (with 3/8 x 24 thread size) for checking system pressure.

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Hose Couplings (1543)

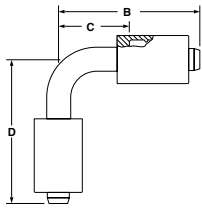


Tube O-Ring Female Swivel - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
7X1803	0.312	7.9	-6	5/8 - 18	-6	2.72	69	0.83	21	1.18	30	9X7380
7X1804	0.312	7.9	-6	5/8 - 18	-6	2.72	69	1.06	27	1.73	44	9X7380
7X1805	0.312	7.9	-6	3/4 - 16	-8	2.72	69	0.98	25	1.38	35	9X7381
7X1806	0.406	10.3	-8	3/4 - 16	-8	2.91	74	1.22	31	1.50	38	9X7381
6V3504*	0.406	10.3	-8	3/4 - 16	-8	4.06	103	2.44	62	1.50	38	9X7381
1338724	0.406	10.3	-8	3/4 - 16	-8	2.91	74	1.22	31	3.35	85	9X7381
7X1807	0.625	15.9	-12	7/8 - 14	-10	3.27	83	1.61	41	1.69	43	9X7382
1338726	0.625	15.9	-12	7/8 - 14	-10	3.27	83	1.61	41	4.41	112	9X7382
7X1808	0.625	15.9	-12	7/8 - 14	-10	3.31	84	1.65	42	5.91	150	9X7382
1242341	0.625	15.9	-12	7/8 - 14	-10	3.31	84	1.65	42	7.56	192	9X7382
3E6815	0.625	15.9	-12	1 1/16 - 14	-12	3.31	84	1.50	38	2.01	51	9X7383

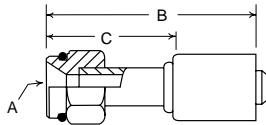
* Has Schrader Valve (with 7/16 - 20 thread size) for checking system pressure.

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Double Collet - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	B		C		D	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
1247338	0.312	7.9	-6	3.07	78	1.50	38	1.50	38
1247337	0.625	15.9	-12	4.80	122	3.23	82	3.23	82

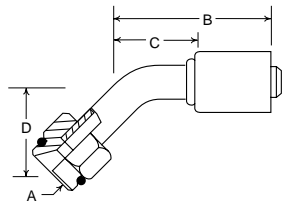


Adapter To Self Sealing Fitting

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	B		C		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	
7X1815	0.312	7.9	-6	7/8 - 20	3.31	84	1.57	40	9X7383
7X1816	0.406	10.3	-8	7/8 - 20	3.43	87	1.77	45	9X7383
7X1817	0.625	15.9	-12	1 1/4 - 18	4.09	104	2.44	62	9X7384

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

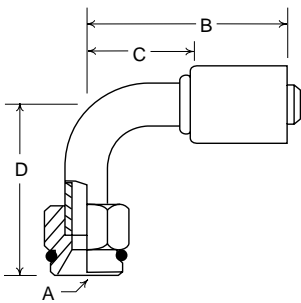
Caterpillar Hose Couplings (1543)



Adapter To Self Sealing Fitting - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	DROP (in)	(mm)	
1422616	0.406	10.3	-8	7/8 - 20	4.40	112	2.78	71	1.25	32	9X7383
9X4012	0.625	15.9	-12	1 1/4 - 18	4.13	105	2.44	62	1.42	36	9X7384

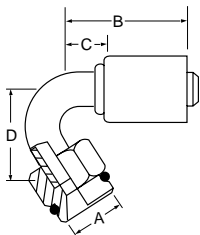
NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.



Adapter To Self Sealing Fitting - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	B		C		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	LENGTH (in)	(mm)	CUT-OFF FACTOR (in)	(mm)	DROP (in)	(mm)	
7X1812	0.312	7.9	-6	7/8 - 20	2.72	69	1.06	27	1.50	38	9X7383
3E4038	0.312	7.9	-6	7/8 - 20	2.72	69	1.06	27	2.56	65	9X7383
7X1813	0.406	10.3	-8	7/8 - 20	3.15	80	1.54	39	1.77	45	9X7383
1391485	0.625	15.9	-12	1 1/4 - 18	3.31	84	1.65	42	0.98	25	9X7384
7X1814	0.625	15.9	-12	1 1/4 - 18	3.31	84	1.65	42	2.99	76	9X7384
1242340	0.625	15.9	-12	1 1/4 - 18	3.31	84	1.65	42	3.94	100	9X7384

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

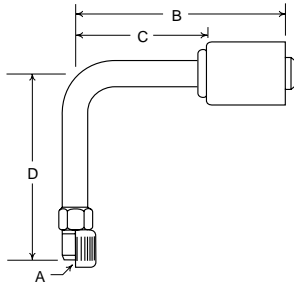


Adapter To Self Sealing Fitting - 135° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	B		D		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	LENGTH (in)	(mm)	DROP (in)	(mm)	
9X4010	0.625	15.9	-12	1 1/4 - 18	3.86	98	2.52	64	9X7384

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

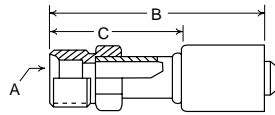
Caterpillar Hose Couplings (1543)



Service Valve Fitting - 90° Elbow

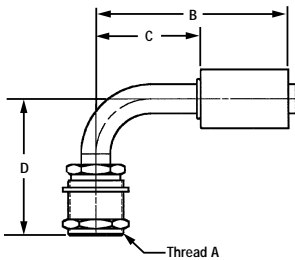
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	VALVE* THREAD SIZE (in - TPI)	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)
7X1887*	0.312	7.9	-6	7/16 - 20	2.83	72	1.18	30	2.36	60
7X1889*	0.312	7.9	-6	3/8 - 24	2.83	72	1.18	30	2.36	60

* Has Schrader Valve for checking system pressure.



Male O-Ring Connector

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)
1252797	0.312	7.9	-6	5/8 - 18	-6	3.15	80	1.54	39
1410893	0.312	7.9	-6	3/4 - 16	-8	4.09	104	2.48	63
9X4208	0.625	15.9	-12	7/8 - 14	-10	3.62	92	1.97	50



Male Bulkhead O-Ring Connector - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A	A	B LENGTH		C CUT-OFF FACTOR		D DROP		O-RING SEAL
	(in)	(mm)		THREAD SIZE (in - TPI)	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
3E6814	0.625	15.9	-12	1 1/16 - 14	-12	4.13	105	2.24	57	2.91	74	9X7383

NOTE: Refer to the Seal Section of this Guide for a complete list of seals and applications.

Caterpillar Specialty Hose

Caterpillar Heater Hose (Standard)	150
Caterpillar Heater Hose (High Temperature)	150
Caterpillar Air Brake Hose	150
Caterpillar Radiator Hose	151
Caterpillar Hydraulic Return Hose	152

Caterpillar Specialty Hose

CATERPILLAR® Heater Hose



Heater Hose (Standard)*

Meets the requirements of SAE J20R3

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P0767	0.625	15.9	-10	0.94	23.9	250	1750	62	437
5P0765	0.750	19.0	-12	1.06	26.9	200	1400	50	350

* Serviced in increments of one centimeter

CATERPILLAR® Heater Hose



Heater Hose (High Temperature)*

Meets the requirements of SAE 20R3 Silicone

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
6V8843	0.625	15.9	-10	0.93	22.8	250	1750	63	441
8T9543	0.750	19.1	-12	1.06	27.0	200	1400	50	350

* Serviced in increments of one centimeter

CATERPILLAR® Air Brake Hose



Air Brake Hose*

Meets the requirements of SAE J1402

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P0720	0.250	6.4	-4	0.62	15.9	900	6300	200	1400
5P0721	0.375	9.5	-6	0.75	19.1	900	6300	200	1400
5P1300	0.438	11.1	-7	0.81	20.6	900	6300	200	1400
5P0722	0.500	12.7	-8	0.87	20.6	900	6300	200	1400

* Serviced in increments of one centimeter

APPLICATION: Air only. Approved for use on vehicles by meeting D.O.T. FMVSS 106.

CATERPILLAR® Radiator Hose



Radiator Hose*

Meets the requirements of SAE J20R1

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P1251	1.000	25.4	-16	1.55	39.6	560	3910	140	980
5P1252	1.125	28.6	-18	1.68	42.8	540	3780	135	945
5P1253	1.250	31.8	-20	1.81	46.0	500	3500	125	875
5P1254	1.310	33.3	-21	1.87	47.5	500	3500	125	875
5P1255	1.375	34.9	-22	1.93	49.1	480	3360	120	840
5P0763	1.500	38.1	-24	2.05	52.3	450	3150	112	784
5P1256	1.625	41.3	-26	2.18	55.5	400	2800	100	700
5P1257	1.750	44.5	-28	2.31	58.7	400	2800	100	700
5P1258	1.875	47.6	-30	2.43	61.8	360	2520	90	630
5P1259	2.000	50.8	-32	2.55	65.0	350	2450	88	616
5P1260	2.250	57.2	-36	2.81	71.4	350	2450	88	616
5P1261	2.375	60.3	-38	2.93	74.5	320	2240	80	560
5P1262	2.500	63.5	-40	3.05	77.7	300	2100	75	525
5P1263	2.750	69.9	-44	3.31	84.1	240	1680	60	420
5P1264	2.875	73.0	-46	3.43	87.2	240	1680	60	420
5P1265	3.000	76.2	-48	3.55	90.4	240	1680	60	420
5P1266	3.250	82.6	-52	3.81	96.8	200	1400	50	350
5P0764	3.500	88.9	-56	4.05	103.1	200	1400	50	350
5P1267	3.750	95.3	-60	4.31	109.5	160	1120	40	280
5P1268	4.000	101.6	-64	4.55	115.8	150	1050	38	266
7X7895	4.250	108.0	-68	4.81	122.2	120	840	30	210
5P1269	4.500	114.3	-72	5.05	128.5	120	840	30	210
5P1270	5.000	127.0	-80	5.55	141.2	100	700	25	175

* Serviced in increments of one centimeter

Caterpillar Specialty Hose

CATERPILLAR® Hydraulic Return Hose



Hydraulic Return Hose*

Meets the requirements of SAE 100R4

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	HOSE O.D.		MIN. BURST PRESS.		MAX. WORK. PRESS.	
	(in)	(mm)		(in)	(mm)	(psi)	(kPa)	(psi)	(kPa)
5P2094	1.000	25.4	-16	1.61	41.1	842	5900	207	1450
8C7304	1.125	28.6	-18	1.74	44.2	842	5900	207	1450
5P6412	1.250	31.8	-20	1.87	47.7	842	5900	207	1450
5P1291	1.500	38.1	-24	2.11	53.8	842	5900	207	1450
5P1292	1.750	44.5	-28	2.37	60.4	785	5500	193	1350
5P1293	2.000	50.8	-32	2.55	65.0	785	5500	193	1350
5P1294	2.250	57.2	-36	2.87	72.9	593	4150	150	1050
5P1295	2.500	63.5	-40	3.11	79.2	593	4150	150	1050
7X7893	3.000	76.2	-48	3.61	91.9	593	4150	150	1050
7X7894	3.250	82.6	-52	3.87	98.5	593	4150	150	1050
5P1296	3.500	88.9	-56	4.11	104.6	593	4150	150	1050
8T2917	4.000	101.6	-64	4.70	119.4	400	2800	100	700

* Serviced in increments of one centimeter

APPLICATION: Low temperature, straight connections where band clamps are required.

Caterpillar Seals and Miscellaneous Products

O-Ring Application Charts	154
Seals	155
Seal Kits	161
Split Flanges & Hardware	165
Hose Clamps	171
Armor Guard	173
Captive Flanges	177

O-Ring Application Charts

Caterpillar offers O-Rings made from various materials. The following tables provide general guidelines to follow when matching O-Ring materials with applications. Caterpillar's standard material offering, unless otherwise noted, is the Nitrile 90.

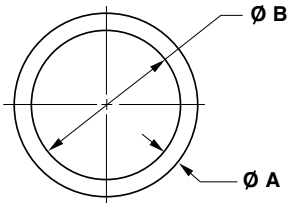
Common Uses

MATERIAL TYPE	DUROMETER "A" HARDNESS	FINAL DRIVE & DIFFERENTIALS	ENGINE LUBE OILS	ENGINE COOLING SYSTEMS	HYDRAULIC SYSTEMS	FUELS (DIESEL & GAS)	POWER SHIFT TRANSMISSIONS	HYDROSTATIC TRANSMISSIONS
NITRILE (BUNA N)	75	X	X	X	X	X	X	X
NITRILE (BUNA N)	90				X			
SILICONE	70	X	X	X	X**		X	
EPDM	70			X				
FLUOROELASTOMER (VITON)	75		X		X	X	X	X
FLUOROELASTOMER (VITON)	90		X		X	X	X	X

** Limited Use

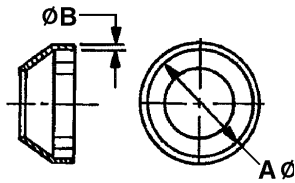
Material and Application Descriptions

MATERIAL TYPE	DUROMETER "A" HARDNESS	TEMPERATURE RANGES	INTERMITTENT HIGH TEMP. OPERATION	APPLICATION DESCRIPTION
NITRILE (BUNA N)	75	-40° to 107°C (-40° to 225° F)	121°C (250°F)	Good for use in all oil applications including lubricating and hydraulic oils, gasoline, alcohol, water and alkaline and salt solutions. In hydraulic systems, use 75 Durometer A Hardness in pressure applications < 1500 psia (10,335 kPa) and 90 Durometer A Hardness in pressure applications => 1500 psia.
	90	-34° to 107°C (-30° to 225°F)	121°C (250°F)	
SILICONE	70	-53° to 163°C (-65° to 325°F)	232°C (450°F)	For use in high heat/low pressure applications on or near engines, transmissions, and hydraulic systems. Good with engine and hydraulic oils, but not fuels or gasoline. Relatively weak physical strength and abrasion resistance usually limit silicones to static service. Do not use silicone or grease as a lubricant on a silicone seal.
EPDM	70	-54° to 177°C (-65° to 350°F)	————	Primarily used for sealing engine cylinder liners and occasionally used to seal cooling and air inlet systems. Excellent resistance to water, steam, acid, ketones, phosphate esters, automotive brake fluids and ozone; not recommended for use with petroleum oils. Because EPDM swells when in contact with oil or fuel, liquid soap or glycerine is usually used on the seal during assembly.
FLUOROELASTOMER (VITON)	75	-40° to 200°C (-40° to 400°F)	260°C (500°F)	For use with petroleum oils and silicone greases. Do not use with ketones, methoxypropanol based coolants (Dowtherm 209) or anhydrous ammonia. Provides high temperature stability and exhibits extended life over 120°C (248°F). Use 75 Durometer A Hardness with pressures < 1500 psia (10,335 kPa) and 90 Durometer A Hardness with pressures => 1500 psia.
	90	-25° to 200°C (-15° to 400°F)	260°C (500°F)	



SAE Straight Thread O-Ring Boss O-Ring Seals

VITON 90-DURO	VITON 75-DURO	SILICONE 70-DURO	NITRILE 90-DURO	THREAD SIZE (in - TPI)	THREAD DASH SIZE	A SEAL THICKNESS (in) (mm)		B SEAL I.D. (in) (mm)	
	5P7812		4J7533	5/16 - 24	-2	0.06	1.6	0.24	6.1
	5P7813		7J0204	3/8 - 24	-3	0.06	1.6	0.30	7.7
0335853	6V5048		3J7354	7/16 - 20	-4	0.07	1.8	0.35	8.9
	5P7814		1J9671	1/2 - 20	-5	0.07	1.8	0.41	10.5
0336042	6V5049		3J1907	9/16 - 18	-6	0.08	2.0	0.47	11.9
0336028	8L2786		3K0360	3/4 - 16	-8	0.09	2.2	0.64	16.4
0336027	6V4589		2M9780	7/8 - 14	-10	0.10	2.5	0.76	19.2
0336036	6V5050		3D2824	1 1/16 - 12	-12	0.12	3.0	0.92	23.5
0336038	6V1903		4K1388	1 3/16 - 12	-14	0.12	3.0	1.05	26.6
	5P7701		7M8485	1 5/16 - 12	-16	0.12	3.0	1.17	29.7
	5P7815		2S4078	1 5/8 - 12	-20	0.12	3.0	1.47	37.5
	5P7816		6K6307	1 7/8 - 12	-24	0.12	3.0	1.72	43.7
	5P7817		0304606	2 1/2 - 12	-32	0.12	3.0	2.34	59.4

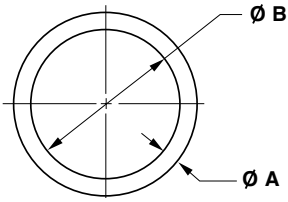


JIC 37° Copper Seals

PART NUMBER	THREAD SIZE (in - TPI)	THREAD DASH SIZE	A SEAL O.D. (in) (mm)	B SEAL THICKNESS (in) (mm)
6V7333	9/16 - 18	-6	0.48 12.2	0.005 0.13
6V7332	3/4 - 16	-8	0.65 16.5	0.010 0.25
6V7331	7/8 - 14	-10	0.78 19.8	0.010 0.25
6V7330	1 1/16 - 12	-12	0.94 23.9	0.010 0.25
6V7329	1 5/16 - 12	-16	1.19 30.2	0.010 0.25
6V7328	1 5/8 - 12	-20	1.50 38.1	0.010 0.25
6V7327	1 7/8 - 12	-24	1.75 44.5	0.010 0.25

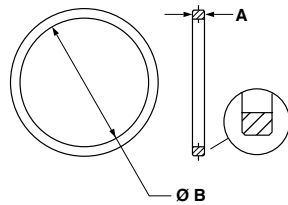
Copper seals are available for use in stopping leaks on 37° JIC fittings. The seal fits over the 37° tapered seat of the fitting body and interfaces with the mating 37° tube flare. The copper seal provides a soft malleable material between the two surfaces that deforms under compression - filling scratches, nicks and other surface imperfections which can allow leaks.

Seals



Code 61 Flange O-Ring Seals

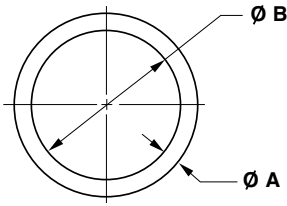
VITON 90-DURO	VITON 75-DURO	SILICONE 70-DURO	NITRILE 90-DURO	HEAD SIZE		FLANGE DASH SIZE	A SEAL THICKNESS		B SEAL I.D.	
				(in)	(mm)		(in)	(mm)	(in)	(mm)
	5P6718	8M4435	4J5140	1.19	30.2	-8	0.14	3.6	0.73	18.5
	3P1156	8M4445	4J8996	1.34	34.0	-10	0.14	3.6	0.86	21.8
	3P1155	8M4988	4J5267	1.50	38.1	-12	0.14	3.6	0.98	24.9
	0619458	8M5254	4J0519	—	—	—	0.14	3.6	1.23	31.2
	5P8066	8M4987	4J0520	1.75	44.5	-16	0.14	3.6	1.30	33.0
	5P4268	8M5249	4J0521	—	—	—	0.14	3.6	1.36	34.5
	0617540	8M4986	4J0522	2.00	50.8	-20	0.14	3.6	1.48	37.6
5P1480	8J4351	8M4443	4J0523	—	—	—	0.14	3.6	1.73	43.9
	0619455	8M5661	4J0524	2.38	60.3	-24	0.14	3.6	1.86	47.2
	5P8211	8M4436	4J0525	—	—	—	0.14	3.6	1.98	50.3
8C3077	0619456	8M5010	4J0526	—	—	—	0.14	3.6	2.11	53.6
	6V4368	8M4390	4J0527	2.81	71.4	-32	0.14	3.6	2.23	56.6
8T0568	0336031	9M7539	6J2680	3.31	84.1	-40	0.14	3.6	2.73	69.3



Caterpillar Flange D-Ring Seals*

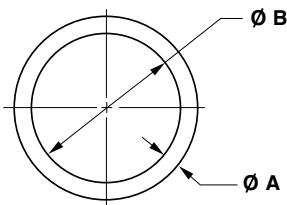
NITRILE 90-DURO	HEAD SIZE		FLANGE DASH SIZE	A SEAL THICKNESS		B SEAL I.D.	
	(in)	(mm)		(in)	(mm)	(in)	(mm)
1P3700	1.25	31.8	-8	0.20	5.0	0.75	19.0
1P3702	1.62	41.3	-12	0.20	5.0	1.00	25.4
1P3703	1.88	47.6	-16	0.20	5.0	1.25	31.9
1P3704	2.12	54.0	-20	0.20	5.0	1.50	38.2
1P3705	2.50	63.5	-24	0.20	5.0	1.75	44.7
1P3706	—	—	—	0.20	5.0	2.00	51.1
1P3707	—	—	—	0.20	5.0	2.13	54.2
1P3708	—	—	—	0.20	5.0	2.25	57.4
1P3709	3.12	79.4	-32	0.20	5.0	2.52	63.9

* For use with Caterpillar Flange Head Couplings only.



O-Ring Face Seal O-Ring Seals

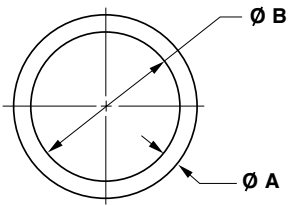
VITON 90-DURO	VITON 75-DURO	SILICONE 70-DURO	NITRILE 90-DURO	THREAD SIZE (in - TPI)	THREAD DASH SIZE	A SEAL THICKNESS (in) (mm)		B SEAL I.D. (in) (mm)	
	0617538		4J5477	9/16 - 18	-4	0.07	1.8	0.34	8.6
0336039	8L2779	5H8853	6V8397	11/16 - 16	-6	0.07	1.8	0.40	10.2
6V5758	0336033		6V8398	13/16 - 16	-8	0.07	1.8	0.49	12.4
6V5142	8L2746		7J9108	1 - 14	-10	0.07	1.8	0.61	15.6
	5P9757		6V9746	13/16 - 12	-12	0.07	1.8	0.78	19.8
8C3093			5K9090	17/16 - 12	-16	0.07	1.8	0.96	24.4
		5P6436	6V8400	111/16 - 12	-20	0.07	1.8	1.18	29.9
			8T0315	2 - 12	-24	0.07	1.8	1.49	37.8



O-Rings For DIN Metric - Light Series

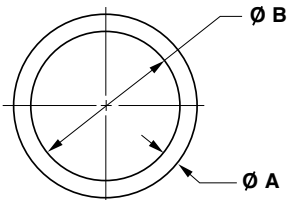
PART NUMBER	METRIC THREAD SIZE (dia x pitch)	A SEAL THICKNESS (in) (mm)		B SEAL I.D. (in) (mm)	
3E4288	M12 x 1.5	0.06	1.5	0.18	4.5
3E4289	M14 x 1.5	0.06	1.5	0.26	6.5
3E4296	M16 x 1.5	0.06	1.5	0.31	8.0
3E4297	M18 x 1.5	0.06	1.5	0.39	10.0
3E4298	M22 x 1.5	0.08	2.0	0.47	12.0
7T0506	M26 x 1.5	0.08	2.0	0.59	15.0
3E6761	M30 x 2.0	0.08	2.0	0.79	20.0
0922304	M36 x 2.0	0.08	2.0	1.02	26.0
9X7447	M45 x 2.0	0.10	2.5	1.26	32.0

Seals



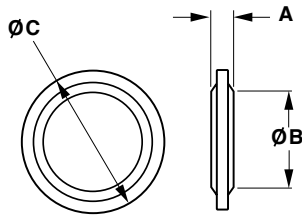
O-Rings For DIN Metric - Heavy Series

PART NUMBER	METRIC THREAD SIZE (dia x pitch)	A SEAL THICKNESS		B SEAL I.D.	
		(in)	(mm)	(in)	(mm)
3E4289	M16 x 1.5	0.06	1.5	0.26	6.5
3E4296	M18 x 1.5	0.06	1.5	0.31	8.0
3E4297	M20 x 1.5	0.06	1.5	0.39	10.0
7T0508	M22 x 1.5	0.08	2.0	0.43	11.0
3E4298	M24 x 1.5	0.08	2.0	0.47	12.0
3E4299	M30 x 2.0	0.09	2.4	0.64	16.3
3E6762	M36 x 2.0	0.09	2.4	0.80	20.3
3E6763	M42 x 2.0	0.09	2.4	1.00	25.3
3E6764	M52 x 2.0	0.10	2.5	1.30	33.0



Metric Port O-Ring Seals

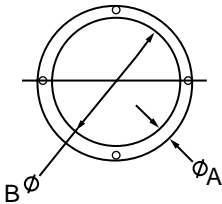
VITON 90-DURO	VITON 75-DURO	SILICONE 70-DURO	NITRILE 90-DURO	METRIC THREAD SIZE (dia x pitch)	A SEAL THICKNESS		B SEAL I.D.	
					(in)	(mm)	(in)	(mm)
			8T7876	M10 x 1.0	0.06	1.5	0.32	8.2
8C3076			6V9028	M12 x 1.5	0.08	2.1	0.37	9.4
			6V6560	M14 x 1.5	0.08	2.1	0.45	11.4
			8T6850	M16 x 1.5	0.08	2.1	0.53	13.4
			8T7524	M18 x 1.5	0.08	2.1	0.61	15.4
			8T7877	M20 x 1.5	0.08	2.1	0.69	17.4
			6V7970	M22 x 1.5	0.08	2.1	0.76	19.4
			8T7878	M26 x 1.5	0.11	2.8	0.89	22.7
			8T7525	M27 x 2.0	0.11	2.8	0.93	23.7
			8T7526	M33 x 2.0	0.11	2.8	1.17	29.7



British Standard Pipe Parallel (BSPP) Dowty Port Seals

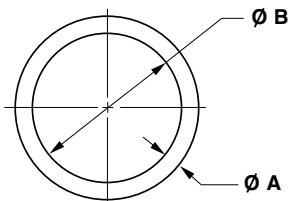
PART NUMBER	A	A	A SEAL THICKNESS		B SEAL I.D.		C SEAL O.D.	
	JIS-BSPP THREAD SIZE (in - TPI)	JIS-BSPP THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V0404	1/8 - 28	-2	0.11	2.9	0.41	10.3	0.63	15.9
6V0405	1/4 - 19	-4	0.11	2.9	0.54	13.7	0.81	20.6
6V0406	3/8 - 19	-6	0.11	2.9	0.68	17.2	0.94	23.9
6V0407	1/2 - 14	-8	0.13	3.2	0.85	21.5	1.13	28.6
8C6504	5/8 - 14	-10	0.13	3.2	0.92	23.5	1.25	31.8
6V0408	3/4 - 14	-12	0.13	3.2	1.06	27.0	1.38	35.0
6V0409	1 - 11	-16	0.16	4.1	1.33	33.9	1.69	42.9
9X7423	1 1/4 - 11	-20	0.13	3.2	1.69	42.9	2.06	52.4
8T1568	1 1/2 - 11	-24	0.16	4.1	1.91	48.4	2.31	58.7

Dowty Seal is required with a port connection only. No seal is required with a BSPP Female Swivel 60° Cone or Spherical Seat.



20° Tapered Face Seals

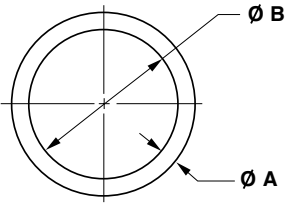
PART NUMBER	THREAD SIZE (in - TPI)	THREAD DASH SIZE	A SEAL THICKNESS		B SEAL I.D.	
	(in - TPI)	SIZE	(in)	(mm)	(in)	(mm)
4I8888	1 - 14	-10	0.08	2.0	0.62	15.8
4I8889	13/16 - 12	-12	0.08	2.0	0.78	19.8
4I8891	17/16 - 12	-16	0.08	2.0	0.98	24.8



Inverted O-Ring A/C O-Ring Seals

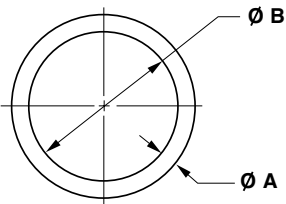
R134A NITRILE 75-DURO	R12 NITRILE 75-DURO	THREAD SIZE (in - TPI)	THREAD DASH SIZE	A SEAL THICKNESS		B SEAL I.D.			
		(in - TPI)	SIZE	(in)	(mm)	(in)	(mm)		
9X7380	5F9144	0.375	9.5	5/8 - 18	-6	0.07	1.8	0.30	7.7
9X7381	6M5062	0.500	12.7	3/4 - 18	-8	0.07	1.8	0.43	10.8
9X7382	5L4758	0.625	15.9	7/8 - 18	-10	0.07	1.8	0.55	14.0

Seals



Tube O-Ring A/C O-Ring Seals

R134A NITRILE 75-DURO	R12 NITRILE 75-DURO			THREAD SIZE (in - TPI)	THREAD DASH SIZE	A SEAL THICKNESS (in) (mm)		B SEAL I.D. (in) (mm)	
9X7380	5F9144	0.375	9.5	5/8 - 18	-6	0.07	1.8	0.30	7.7
9X7381	6M5062	0.500	12.7	3/4 - 16	-8	0.07	1.8	0.43	10.8
9X7382	5L4758	0.625	15.9	7/8 - 16	-10	0.07	1.8	0.55	14.0



Adapter To Self Sealing Fitting A/C O-Ring Seals

	THREAD SIZE (in - TPI)	A SEAL THICKNESS (in) (mm)	B SEAL I.D. (in) (mm)		
9X7383	1S8947	7/8 - 20	0.07	1.8	0.68 17.2
9X7384	5P3944	1 1/4 - 18	0.07	1.8	1.05 26.7



O-Ring Kit (Silicone)

PART NUMBER	MATERIAL*	QUANTITY	SEAL PART NUMBER	DASH SIZE
4C8253	Silicone 70 Duro			
		5	1S0004	-314
		5	2S2251	-327
		3	6L1651	-329
		5	8M4389	-117
		3	8M4390	-228
		5	8M4432	-215
		5	8M4435	-210
		3	8M4436	-226
		10	8M4437	-113
		5	8M4438	-115
		3	8M4443	-224
		5	8M4445	-212
		5	8M4446	-213
		10	8M4986	-222
		10	8M4987	-219
		5	8M4988	-214
		3	8M4990	-312
		3	8M4991	-320
		3	8M4992	-223
		3	8M5010	-227
		5	8M5248	-216
		5	8M5249	-220
		3	8M5252	-231
		5	8M5254	-218
		3	8M5661	-225
		5	8M8157	-116
		3	8M8283	-118
		5	8M8515	-125
		5	9H6067	-316
		5	9M4849	-317
		3	9M7002	-325
		3	9M9647	-326

Seal Kits



O-Ring Kit For Code 61 Flange, ORFS, & STOR Boss Connections

PART NUMBER	MATERIAL*	QUANTITY	SEAL PART NUMBER	DASH SIZE
4C4782	Nitrile 90 Duro			
STOR Boss				
		20	3D2824	-912
		20	1J9671	-905
		20	3J1907	-906
		20	3J7354	-904
		20	4J7533	-902
		20	7J0204	-903
		20	3K0360	-908
		20	4K1388	-914
		20	6K6307	-924
		20	2M9780	-910
		20	7M8485	-916
		20	2S4078	-920
		20	0304606	-932
ORFS				
		20	4J5477	-011
		20	7J9108	-011
		20	5K9090	-021
		20	8T0315	-029
		20	6V8397	-012
		20	6V8398	-014
		20	6V8400	-025
		20	6V9746	-018
Code 61 Flange				
		15	4J0519	-218
		15	4J0520	-219
		15	4J0521	-220
		15	4J0522	-222
		15	4J0523	-224
		15	4J0524	-225
		10	4J0525	-226
		10	4J0526	-227
		10	4J0527	-228
		20	4J5140	-210
		20	4J5267	-214



D-Ring Kit For Caterpillar Flange Connections

PART NUMBER	MATERIAL*	QUANTITY	SEAL PART NUMBER
4C4784	Nitrile 90 Duro		
		10	1P3700
		10	1P3702
		10	1P3703
		10	1P3704
		10	1P3705
		10	1P3706
		10	1P3707
		5	1P3708
		5	1P3709



O-Ring Kit For O-Ring Face Seal Connections

PART NUMBER	MATERIAL*	QUANTITY	SEAL PART NUMBER	DASH SIZE
4C5859	Nitrile 90 Duro			
		20	4J5477	-011
		10	5K9090	-021
		20	6V8397	-012
		20	6V8398	-014
		10	6V8400	-025
		10	6V9746	-018
		20	7J9108	-016
		10	8T0315	-029

Seal Kits



O-Ring Kit For Metric Adapters

PART NUMBER	MATERIAL*	QUANTITY	SEAL PART NUMBER
4C4788	Nitrile 90 Duro		
		15	8T6850
		15	8T7524
		10	8T7525
		5	8T7526
		15	8T7876
		15	8T7877
		10	8T7878
		15	6V6560
		10	6V7970
		15	6V9028



O-Ring Kit For Air Conditioning Connections (R134A Compatible)

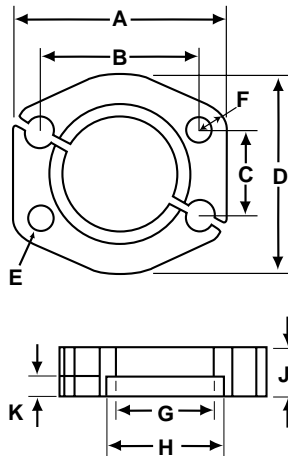
PART NUMBER	MATERIAL*	QUANTITY	SEAL PART NUMBER
9U7804	Nitrile 75 Duro		
		15	9X7378
		15	9X7379
		15	9X7380
		15	9X7381
		15	9X7382
		10	9X7383
		10	9X7384
		15	9X7385

Split Flanges & Hardware

Code 61 Split Flanges & Hardware (Inch Components)

HEAD SIZE (in)	HEAD SIZE (mm)	FLANGE DASH SIZE	SPLIT FLANGE	STANDARD BOLT	BOLT SIZE DIA-TPIxLG.	FLAT HARD WASHER	WASHER SIZE ODxDxTHK (in)
1.19	30.2	-8	1P4574	6V5782	5/16-18 x 1.13	8T4224	.630 x .346 x .079
1.34	34.0	-10	1P4575	6V5782	5/16-18 x 1.13	8T4224	.630 x .346 x .079
1.50	38.1	-12	1P4576	5S7382	3/8-16 x 1.38	8T4896	.728 x .402 x .098
1.75	44.5	-16	1P4577	5S7382	3/8-16 x 1.38	8T4896	.728 x .402 x .098
2.00	50.8	-20	1P4578	8T8916	7/16-14 x 1.50	8T5360	.886 x .472 x .098
2.38	60.3	-24	1P4579	8T8919	1/2-13 x 1.75	8T4223	1.004 x .531 x .118
2.81	71.4	-32	1P4582	8T8919	1/2-13 x 1.75	8T4223	1.004 x .531 x .118
3.31	84.1	-40	1P4584	8T4835	1/2-13 x 2.00	8T4223	1.004 x .531 x .118

Code 61 Split Flanges (Inch Dimensions)

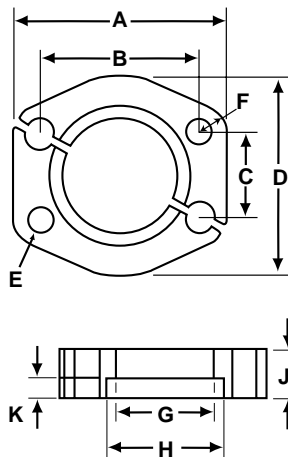


PART NUMBER	HEAD SIZE (in)	FLANGE DASH SIZE	A (in)	B (in)	C (in)	D (in)	E* (in)	F** (in)	G (in)	H (in)	J (in)	K (in)
1P4574	1.19	-8	2.13	1.50	0.69	1.81	0.33	0.31	0.97	1.22	0.63	0.24
1P4575	1.34	-10	2.32	1.69	0.78	1.93	0.34	0.31	1.13	1.37	0.66	0.24
1P4576	1.50	-12	2.60	1.89	0.87	2.05	0.41	0.35	1.28	1.53	0.70	0.24
1P4577	1.75	-16	2.74	2.06	1.03	2.32	0.41	0.34	1.53	1.78	0.70	0.29
1P4578	2.00	-20	3.13	2.31	1.19	2.88	0.47	0.41	1.73	2.03	0.70	0.29
1P4579	2.38	-24	3.70	2.75	1.41	3.23	0.53	0.47	2.02	2.41	0.76	0.29
1P4582	2.81	-32	4.01	3.06	1.69	3.82	0.53	0.47	2.48	2.84	0.76	0.35
1P4584	3.31	-40	4.37	3.50	2.00	4.28	0.53	0.51	2.95	3.34	0.88	0.35

* Hole Diameter

** Radius

Code 61 Split Flanges (Metric Dimensions)



PART NUMBER	HEAD SIZE (mm)	FLANGE DASH SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E* (mm)	F** (mm)	G (mm)	H (mm)	J (mm)	K (mm)
1P4574	30.2	-8	54.1	38.1	17.5	46.0	8.3	8.0	24.6	31.0	16.0	6.1
1P4575	34.0	-10	58.9	42.9	19.8	49.2	8.7	8.0	28.6	34.9	16.7	6.2
1P4576	38.1	-12	66.0	48.0	22.2	52.0	10.3	9.0	32.5	38.9	17.7	6.2
1P4577	44.5	-16	69.6	52.4	26.2	59.0	10.3	8.6	38.9	45.2	17.7	7.5
1P4578	50.8	-20	79.5	58.7	30.2	73.2	11.9	10.4	44.0	51.6	17.7	7.5
1P4579	60.3	-24	93.9	69.9	35.7	82.0	13.5	12.0	51.2	61.1	19.3	7.3
1P4582	71.4	-32	101.8	77.8	42.9	97.0	13.5	12.0	63.1	72.2	19.3	8.8
1P4584	84.1	-40	110.9	88.9	50.8	108.8	13.5	13.0	75.0	84.9	22.4	8.9

* Hole Diameter

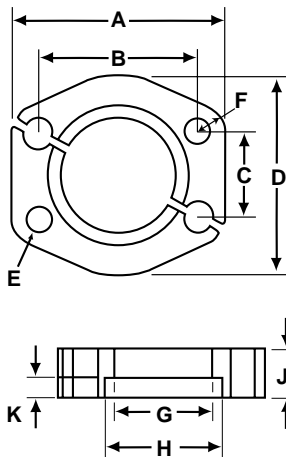
** Radius

Split Flanges & Hardware

Code 61 Split Flanges & Hardware (Metric Components)

HEAD SIZE (in)	HEAD SIZE (mm)	FLANGE DASH SIZE	SPLIT FLANGE	STANDARD BOLT	BOLT SIZE DIAxPITCHxLG.	FLAT HARD WASHER	WASHER SIZE ODxDxTHK (mm)
1.19	30.2	-8	1P4574	8T7547	M8 x 1.25 x 30	8T4224	16.0 x 8.8 x 2.0
1.34	34.0	-10	1P4575	8T7547	M8 x 1.25 x 30	8T4224	16.0 x 8.8 x 2.0
1.50	38.1	-12	8C3205	8T4196	M10 x 1.50 x 35	8T4121	21.0 x 11.0 x 2.5
1.75	44.5	-16	8C3206	8T4196	M10 x 1.50 x 35	8T4121	21.0 x 11.0 x 2.5
2.00	50.8	-20	6V0397	8T4183	M12 x 1.75 x 40	8T4223	25.5 x 13.5 x 3.0
2.38	60.3	-24	1P4579	8T4184	M12 x 1.75 x 45	8T4223	25.5 x 13.5 x 3.0
2.81	71.4	-32	1P4582	8T4184	M12 x 1.75 x 45	8T4223	25.5 x 13.5 x 3.0
3.31	84.1	-40	1P4584	8T0494	M12 x 1.75 x 50	8T4223	25.5 x 13.5 x 3.0

Code 61 Split Flanges (Inch Dimensions)

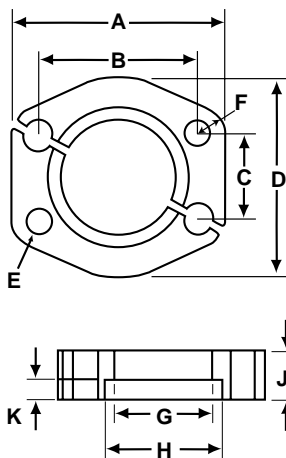


PART NUMBER	HEAD SIZE (in)	FLANGE DASH SIZE	A (in)	B (in)	C (in)	D (in)	E* (in)	F** (in)	G (in)	H (in)	J (in)	K (in)
1P4574	1.19	-8	2.13	1.50	0.69	1.81	0.33	0.31	0.97	1.22	0.63	0.24
1P4575	1.34	-10	2.32	1.69	0.78	1.93	0.34	0.31	1.13	1.37	0.66	0.24
8C3205	1.50	-12	2.83	1.89	0.87	2.04	0.43	0.47	1.28	1.53	0.70	0.24
8C3206	1.75	-16	2.76	2.05	1.03	2.36	0.43	0.35	1.53	1.78	0.70	0.29
6V0397	2.00	-20	3.11	2.31	1.19	2.88	0.51	0.41	1.73	2.03	0.70	0.28
1P4579	2.38	-24	3.70	2.75	1.41	3.23	0.53	0.47	2.02	2.41	0.76	0.29
1P4582	2.81	-32	4.01	3.06	1.69	3.82	0.53	0.47	2.48	2.84	0.76	0.35
1P4584	3.31	-40	4.37	3.50	2.00	4.28	0.53	0.51	2.95	3.34	0.88	0.35

* Hole Diameter

** Radius

Code 61 Split Flanges (Metric Dimensions)



PART NUMBER	HEAD SIZE (mm)	FLANGE DASH SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E* (mm)	F** (mm)	G (mm)	H (mm)	J (mm)	K (mm)
1P4574	30.2	-8	54.1	38.1	17.5	46.0	8.3	8.0	24.6	31.0	16.0	6.1
1P4575	34.0	-10	58.9	42.9	19.8	49.2	8.7	8.0	28.6	34.9	16.7	6.2
8C3205	38.1	-12	72.0	48.0	22.2	52.0	11.0	12.0	32.5	38.9	17.7	6.2
8C3206	44.5	-16	70.0	52.0	26.2	60.0	11.0	9.0	38.9	45.2	17.7	7.4
6V0397	50.8	-20	79.4	58.7	30.2	73.2	13.0	10.4	44.0	51.6	17.7	7.1
1P4579	60.3	-24	93.9	69.9	35.7	82.0	13.5	12.0	51.2	61.1	19.3	7.3
1P4582	71.4	-32	101.8	77.8	42.9	97.0	13.5	12.0	63.1	72.2	19.3	8.8
1P4584	84.1	-40	110.9	88.9	50.8	108.8	13.5	13.0	75.0	84.9	22.4	8.9

* Hole Diameter

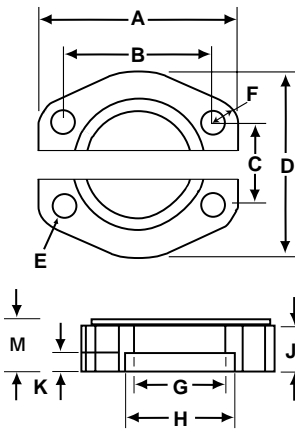
** Radius

Split Flanges & Hardware

Code 62 Split Flanges & Hardware (Inch Components)

HEAD SIZE (in)	HEAD SIZE (mm)	FLANGE DASH SIZE	SPLIT FLANGE	STANDARD BOLT	BOLT SIZE DIA-TPIxLG.	FLAT HARD WASHER	WASHER SIZE ODxDxTHK (in)
1.25	31.8	-8	1244286	6V8918	5/16-18 x 1.25	8T4224	.630 x .346 x .079
1.63	41.3	-12	1244287	4L9337	3/8-16 x 1.50	8T4896	.728 x .402 x .098
1.88	47.6	-16	1244288	8C6877	7/16-14 x 1.75	8T5360	.886 x .472 x .098
2.13	54.0	-20	1313025	8T4835	1/2-13 x 2.00	8T4223	1.004 x .531 x .118
2.50	63.5	-24	2T3000	7X0347	5/8-11 x 2.25	8T4122	1.260 x .669 x .138
3.13	79.6	-32	1244289	8C6857	3/4-10 x 2.75	8T4994	1.438 x .787 x .138

Code 62 Split Flanges (Inch Dimensions)



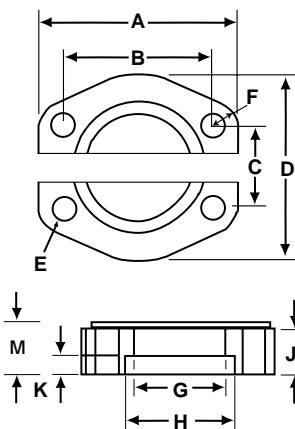
PART NUMBER	HEAD SIZE (in)	FLANGE DASH SIZE	A (in)	B (in)	C (in)	D (in)	E* (in)	F** (in)	G (in)	H (in)	J (in)	K (in)	M (in)
1244286	1.32	-8	2.22	1.59	0.71	1.86	0.34	0.31	0.97	1.28	0.63	0.29	0.87
1244287	1.63	-12	2.81	2.00	0.94	2.36	0.41	0.39	1.28	1.66	0.75	0.33	1.10
1244288	1.88	-16	3.19	2.25	1.10	2.74	0.49	0.47	1.53	1.91	0.94	0.36	1.30
2T3001	2.13	-20	3.75	2.63	1.26	3.04	0.53	0.55	1.75	2.16	1.06	0.39	1.50
2T3000	2.50	-24	4.46	3.13	1.44	3.74	0.66	0.67	2.03	2.53	1.18	0.48	1.69
1244289	3.13	-32	5.25	3.81	1.73	4.48	0.83	0.71	2.66	3.16	1.46	0.48	2.05

* Hole Diameter

** Radius

Note: For use with SAE Code 62 Couplings only.

Code 62 Split Flanges (Metric Dimensions)



PART NUMBER	HEAD SIZE (mm)	FLANGE DASH SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E* (mm)	F** (mm)	G (mm)	H (mm)	J (mm)	K (mm)	M (mm)
1244286	33.5	-8	56.4	40.5	18.0	47.2	8.7	8.0	24.6	32.5	16.0	7.2	22.0
1244287	41.3	-12	71.4	50.8	24.0	60.0	10.5	10.0	32.5	42.1	19.0	8.3	28.0
1244288	47.6	-16	81.0	57.2	28.0	69.6	12.5	12.0	38.9	48.4	24.0	9.0	33.0
2T3001	54.0	-20	95.2	66.7	32.0	77.2	13.5	14.0	44.5	54.7	26.9	9.8	38.1
2T3000	63.5	-24	113.4	79.4	36.5	95.0	16.7	17.0	51.6	64.3	30.0	12.1	43.0
1244289	79.6	-32	133.4	96.8	44.0	113.8	21.0	18.0	67.6	80.2	37.0	12.1	52.0

* Hole Diameter

** Radius

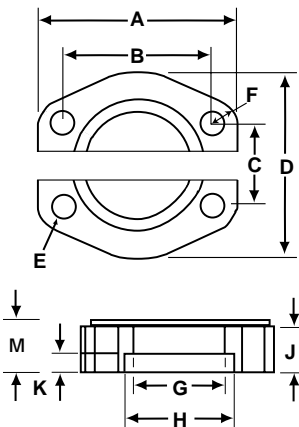
Note: For use with SAE Code 62 Couplings only.

Split Flanges & Hardware

Code 62 Split Flanges & Hardware (Metric Components)

HEAD SIZE (in)	HEAD SIZE (mm)	FLANGE DASH SIZE	SPLIT FLANGE	STANDARD BOLT	BOLT SIZE DIAxPITCHxLG.	FLAT HARD WASHER	WASHER SIZE ODxDxTHK (mm)
1.25	31.8	-8	8U0677	8T7547	M8 x 1.25 x 30	8T4224	16.0 x 8.8 x 2.0
1.63	41.3	-12	1244287	8T4196	M10 x 1.50 x 35	8T4121	21.0 x 11.0 x 2.5
1.88	47.6	-16	1244288	8T4184	M12 x 1.75 x 45	8T4223	25.5 x 13.5 x 3.0
2.13	54.0	-20	1313025	8T4194	M12 x 1.75 x 50	8T4223	25.5 x 13.5 x 3.0
2.50	63.5	-24	2T3000	8T4140	M16 x 2.00 x 60	8T4122	32.0 x 17.0 x 3.5
3.13	79.6	-32	1244289	8T4141	M20 x 2.50 x 70	8T4123	35.0 x 22.0 x 3.5

Code 62 Split Flanges (Inch Dimensions)



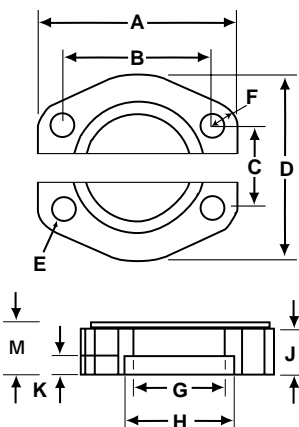
PART NUMBER	HEAD SIZE (in)	FLANGE DASH SIZE	A (in)	B (in)	C (in)	D (in)	E* (in)	F** (in)	G (in)	H (in)	J (in)	K (in)	M (in)
1244286	1.32	-8	2.22	1.59	0.71	1.86	0.34	0.31	0.97	1.28	0.63	0.29	0.87
1244287	1.63	-12	2.81	2.00	0.94	2.36	0.41	0.39	1.28	1.66	0.75	0.33	1.10
1244288	1.88	-16	3.19	2.25	1.10	2.74	0.49	0.47	1.53	1.91	0.94	0.36	1.30
2T3001	2.13	-20	3.75	2.63	1.25	3.04	0.53	0.55	1.75	2.16	1.06	0.39	1.50
2T3000	2.50	-24	4.46	3.13	1.44	3.74	0.66	0.67	2.03	2.53	1.19	0.48	1.69
1244289	3.13	-32	5.25	3.81	1.73	4.48	0.83	0.71	2.66	3.16	1.44	0.48	2.05

* Hole Diameter

** Radius

Note: For use with SAE Code 62 Couplings only.

Code 62 Split Flanges (Metric Dimensions)



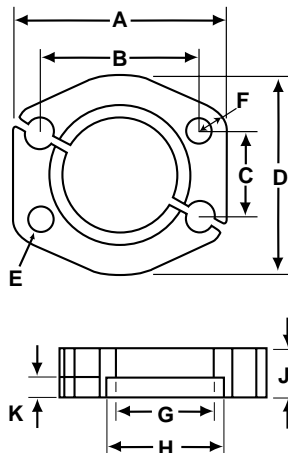
PART NUMBER	HEAD SIZE (mm)	FLANGE DASH SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E* (mm)	F** (mm)	G (mm)	H (mm)	J (mm)	K (mm)	M (mm)
1244286	33.5	-8	56.0	40.5	18.2	47.2	9.0	7.8	24.6	32.5	16.0	7.2	22.0
1244287	41.3	-12	71.4	50.8	24.0	60.0	10.5	10.0	32.5	42.1	19.0	8.3	28.0
1244288	47.6	-16	81.0	57.2	28.0	69.6	12.5	12.0	38.9	48.4	24.0	9.0	33.0
2T3001	54.0	-20	95.2	66.7	32.0	77.2	13.5	14.0	44.5	54.7	26.9	9.8	38.1
2T3000	63.5	-24	113.4	79.4	36.5	95.0	16.7	17.0	51.6	64.3	30.0	12.1	43.0
1244289	79.6	-32	133.4	96.8	44.0	113.8	21.0	18.0	67.6	80.2	37.0	12.1	52.0

Split Flanges & Hardware

Caterpillar Flange Split Flanges & Hardware (Inch Components)

HEAD SIZE (in)	HEAD SIZE (mm)	FLANGE DASH SIZE	SPLIT FLANGE	STANDARD BOLT	BOLT SIZE DIA-TPIxLG.	FLAT HARD WASHER	WASHER SIZE ODxDxTHK (in)
1.63	41.3	-12	1P5765	5S7383	3/8-16 x 1.75	8T4896	.728 x .402 x .098
1.88	47.6	-16	1P5766	8C6877	7/16-14 x 1.75	8T5360	.886 x .472 x .098
2.13	54.0	-20	1P5767	8T4835	1/2-13 x 2.00	8T4223	1.004 x .531 x .118
2.50	63.5	-24	5P8077	8T6871	5/8-11 x 2.50	8T4122	1.260 x .669 x .138
3.13	79.6	-32	6V0402	8C6857	3/4-10 x 2.75	8T4994	1.438 x .787 x .138

Caterpillar Flange Split Flanges (Inch Dimensions)

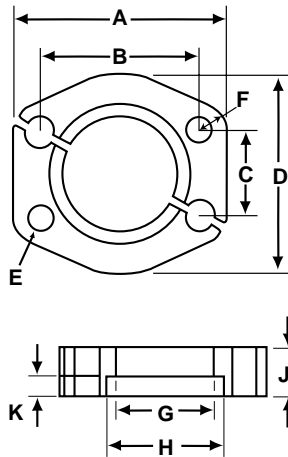


PART NUMBER	HEAD SIZE (in)	FLANGE DASH SIZE	A (in)	B (in)	C (in)	D (in)	E* (in)	F** (in)	G (in)	H (in)	J (in)	K (in)
1P5765	1.63	-12	2.82	2.00	0.94	2.38	0.41	0.41	1.27	1.63	1.10	0.53
1P5766	1.88	-16	3.20	2.25	1.09	2.75	0.47	0.47	1.55	1.88	1.10	0.53
1P5767	2.13	-20	3.73	2.63	1.25	3.06	0.53	0.55	1.71	2.13	1.10	0.53
5P8077	2.50	-24	4.46	3.13	1.44	3.78	0.66	0.67	2.08	2.51	1.26	0.53
6V0402	3.13	-32	5.24	3.82	1.75	4.49	0.83	0.71	2.64	3.13	1.44	0.53

* Hole Diameter

** Radius

Caterpillar Flange Split Flanges (Metric Dimensions)



PART NUMBER	HEAD SIZE (mm)	FLANGE DASH SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E* (mm)	F** (mm)	G (mm)	H (mm)	J (mm)	K (mm)
1P5765	41.3	-12	71.6	50.8	23.8	60.4	10.3	10.4	32.3	41.5	28.0	13.5
1P5766	47.6	-16	81.2	57.2	27.8	70.0	11.9	12.0	39.4	47.9	28.0	13.5
1P5767	54.0	-20	94.7	66.7	31.8	78.0	13.5	14.0	43.3	54.8	28.0	13.5
5P8077	63.5	-24	113.4	79.4	36.5	96.0	16.7	17.0	52.8	63.7	32.0	13.5
6V0402	79.6	-32	133.0	97.0	44.4	114.0	21.0	18.0	67.1	79.6	36.5	13.5

* Hole Diameter

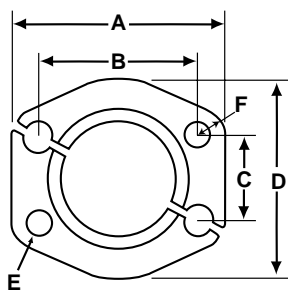
** Radius

Split Flanges & Hardware

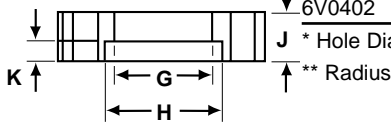
Caterpillar Flange Split Flanges & Hardware (Metric Components)

HEAD SIZE (in)	HEAD SIZE (mm)	FLANGE DASH SIZE	SPLIT FLANGE	STANDARD BOLT	BOLT SIZE DIAxPITCHxLG.	FLAT HARD WASHER	WASHER SIZE ODxDxTHK (mm)
1.63	41.3	-12	8T9403	8T4182	M10 x 1.50 x 45	8T4121	21.0 x 11.0 x 2.5
1.88	47.6	-16	6V0400	8T4184	M12 x 1.75 x 45	8T4223	25.5 x 13.5 x 3.0
2.13	54.0	-20	1P5767	8T4194	M12 x 1.75 x 50	8T4223	25.5 x 13.5 x 3.0
2.50	63.5	-24	5P8077	8T4140	M16 x 2.00 x 60	8T4122	32.0 x 17.0 x 3.5
3.13	79.4	-32	6V0402	8T4141	M20 x 2.50 x 70	8T4123	35.0 x 22.0 x 3.5

Caterpillar Flange Split Flanges (Inch Dimensions)



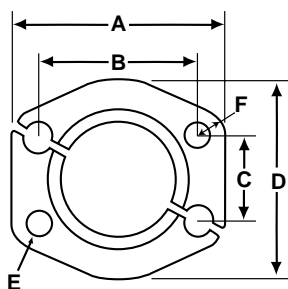
PART NUMBER	HEAD SIZE (in)	FLANGE DASH SIZE	A (in)	B (in)	C (in)	D (in)	E* (in)	F** (in)	G (in)	H (in)	J (in)	K (in)
8T9403	1.63	-12	2.80	2.00	0.94	2.36	0.43	0.39	1.27	1.63	1.10	0.53
6V0400	1.88	-16	3.19	2.25	1.09	2.75	0.51	0.47	1.55	1.88	1.10	0.53
1P5767	2.13	-20	3.73	2.63	1.25	3.06	0.53	0.55	1.71	2.13	1.10	0.53
5P8077	2.50	-24	4.46	3.13	1.44	3.78	0.66	0.67	2.08	2.51	1.26	0.53
6V0402	3.13	-32	5.24	3.82	1.75	4.49	0.83	0.71	2.64	3.13	1.44	0.53



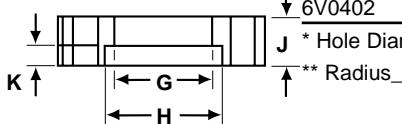
* Hole Diameter

** Radius

Caterpillar Flange Split Flanges (Metric Dimensions)

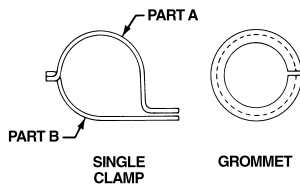


PART NUMBER	HEAD SIZE (mm)	FLANGE DASH SIZE	A (mm)	B (mm)	C (mm)	D (mm)	E* (mm)	F** (mm)	G (mm)	H (mm)	J (mm)	K (mm)
8T9403	41.3	-12	71.0	51.0	23.8	60.0	11.0	10.0	32.3	41.5	28.0	13.5
6V0400	47.6	-16	81.0	57.0	27.8	70.0	13.0	12.0	39.4	47.9	28.0	13.5
1P5767	54.0	-20	94.7	66.7	31.8	78.0	13.5	14.0	43.3	54.8	28.0	13.5
5P8077	63.5	-24	113.4	79.4	36.5	96.0	16.7	17.0	52.8	63.7	32.0	13.5
6V0402	79.4	-32	133.0	97.0	44.4	114.0	21.0	18.0	67.1	79.6	36.5	13.5



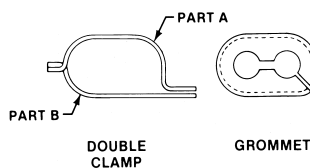
* Hole Diameter

** Radius



Single Line Hose Clamps

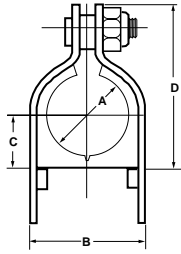
GROMMET I.D. (in) (mm)	GROMMET PART NUMBER	CLAMP A PART NUMBER	CLAMP B PART NUMBER	APPLICATIONS (Hose Type - Dash Size)					
0.75	6V0683	5P7462	5P7463	XT3-6	716-8	1028-8	1130-8		
0.87	6V1249	5P7464	5P7465	XT3-8	XT6-6	294-8	716-10	1130-10	
0.94	8T9518	5P7468	5P7469	294-10					
0.98	6V7359	5P7464	5P7465	XT3-10	XT6-8	1028-12	1130-12		
1.06	8T2920	5P7464	5P7465						
1.06	6V4349	5P7468	5P7469	294-12	716-12				
1.18	5P8112	5P7466	5P7467	XT3-12	1130-16				
1.22	6V1874	5P7468	5P7469	XT5-12	844-12				
1.34	8T7087	5P7468	5P7469	XT6-12	716-16				
1.46	5P8444	5P7468	5P7469	XT3-16	XT5-16	294-16	844-16	1130-20	
1.57	8T2525	5P7468	5P7469	XT6-16					
1.73	6V0545	5P7468	5P7469	844-20	1130-20				
1.81	5P8182	5P7470	5P7471	XT3-20	294-20				
1.89	6V1875	6V1572	6V1573	XT5-20	XT6-20				
2.05	5P7703	5P7470	5P7471	XT3-24	844-24				
2.20	6V1574	6V1572	6V1573	XT5-24					
2.56	6V1869	6V1867	6V1868	XT3-32					



Double Line Hose Clamps

GROMMET I.D. (in) (mm)	GROMMET PART NUMBER	CLAMP A PART NUMBER	CLAMP B PART NUMBER	APPLICATIONS (Hose Type - Dash Size)					
0.79	6V0974	3G8057	3G8054	XT3-6	716-8	1028-8			
0.87	3G8047	3G8057	3G8054	XT3-8	XT6-6	294-8	716-10	1130-10	
1.02	8C3174	7G3834	7G3833	XT3-10	716-12	1028-12	1130-12		
1.18	7G3832	7G3834	7G3833	XT3-12	1130-16				
1.22	6V1876	7G5985	7G5984	XT5-12	844-12				
1.34	8T7088	7G5985	7G5984	XT6-12	716-16				
1.46	7G5986	7G5985	7G5984	XT3-16	XT5-16	294-16	844-16	1130-20	
1.57	8T3440	7G5985	7G5984	XT6-16					
1.81	7G3415	7G3413	7G3414	XT3-20	294-20				
1.89	6V1877	6V1575	6V1576	XT5-20	XT6-20				
2.05	6V1324	7G3413	7G3414	XT3-24	844-24				
2.20	6V1577	6V1575	6V1576	XT5-24					
2.56	6V1872	6V1870	6V1871	XT3-32					

Hose Clamps



Channel Clamping System

PART NUMBER	SIZE COPPER & STEEL TUBING		SIZE COPPER WATER PIPE (Nominal)	SIZE PIPE (Nominal)	A DIMENSION		B DIMENSION		C DIMENSION		D DIMENSION	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
9U6960	Channel —4' (1219 mm) length											
9U6969	0.25	6.4			0.25	6.4	0.62	15.8	0.27	6.9	0.98	24.9
9U6970	0.38	9.5	0.25		0.37	9.4	0.82	20.8	0.33	8.4	1.13	28.7
9U6971	0.50	12.7	0.38		0.50	12.7	0.94	23.9	0.40	10.2	1.34	34.0
9U6961	0.25	6.4		0.25	0.54	13.7	0.98	24.9	0.43	10.9	1.34	34.0
9U6972	0.63	15.9	0.50		0.62	15.8	1.06	26.9	0.46	11.7	1.54	39.1
9U6962	0.38	9.5		0.38	0.67	17.0	1.13	28.7	0.49	12.5	1.54	39.1
9U6973	0.75	19.1	0.63		0.75	19.1	1.20	30.5	0.52	13.2	1.68	42.7
9U6963	0.50	12.7		0.50	0.84	21.3	1.29	32.8	0.58	14.7	1.82	46.2
9U6974	1.00	25.4			1.00	25.4	1.44	36.6	0.65	16.5	1.95	49.5
9U6964	0.75	19.1		0.75	1.05	26.7	1.50	38.1	0.70	17.8	1.95	49.5
9U6975	1.25	31.8			1.25	31.8	1.70	43.2	0.77	19.6	2.21	56.1
9U6965	1.00	25.4		1.00	1.31	33.3	1.76	44.7	0.81	20.6	2.34	59.4
9U6976	1.50	38.1			1.50	38.1	1.95	49.5	0.90	22.9	2.47	62.7
9U6966	1.25	31.8		1.25	1.66	42.2	2.17	55.1	0.99	25.2	2.73	69.3
9U6967	1.50	38.1		1.50	1.90	48.3	2.35	59.7	1.09	27.7	2.86	72.6
9U6977	2.00	50.8			2.00	50.8	2.45	62.2	1.15	29.2	3.04	77.2
9U6968	2.00	50.8		2.00	2.37	60.2	2.82	71.6	1.41	35.8	3.67	93.2

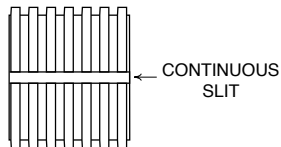


Bulk Metal Armor Guard*

PART NUMBER	GUARD I.D.		HOSE TYPE								
	(in)	(mm)	1543	1028	716	294	844	XT-3	XT-5	XT-6	1956
9X6186	0.56	14.2		-4	-4						
9X2856	0.72	18.3		-6	-6	-4,-5					
6V0743	0.94	23.8		-8	-8	-6		-6		-6	-6
6V0744	1.06	27.0			-10	-8,-10		-8		-8	-8
8C7557	1.18	30.0		-12	-12			-10			-10
6V0745	1.34	34.0				-12		-12			-12
6V0756	1.41	35.8					-12		-12		
6V0746	1.65	42.0			-16	-16	-16	-16	-16	-12	-16
6V0747	2.01	51.0			-20	-20		-20		-16	
6V0752	2.17	55.0			-24		-20		-20	-20	-20
6V0748	2.28	58.0				-24		-24			
6V0757	2.41	61.3					-24		-24		-24
6V0749	2.82	71.8			-32	-32	-32	-32			-32
6V0754	2.97	75.5							-32		

To find the proper bulk armor guard part number, first locate the appropriate hose type column in the chart above. Then, read down to find the hose inside diameter given in dash size and select the corresponding guard part number shown at the far left.

* Sold by the centimeter



Air Conditioning (1543) Bulk Armor Guard*

PART NUMBER	GUARD I.D.		HOSE DASH SIZE
	(in)	(mm)	
8C5063	0.56	14.2	-6
8C5064	0.70	17.8	-8
7X7702	0.92	23.4	-12

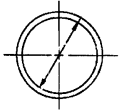
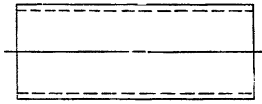
* Sold by the centimeter

Armor Guard



Armor Guard Clip

PART NUMBER	CLIP SIZE		HOSE TYPE		
	(mm)	(mm)			
3E4062	31.8		XT-3	XT-5	XT-6
3E4069	19.1	25.4	XT-3	XT-5	
3E4070	38.1	50.8	XT-3	XT-5	
3E4071	9.5	12.7	XT-3		

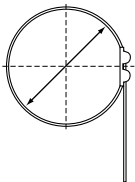


Nylon Abrasive Sleeve*

For abrasion resistance and bundling of hose lines. Also used for burst containment.

PART NUMBER	GUARD I.D.	
	(in)	(mm)
1602242	0.71	18.0
1602243	1.00	25.4
1602244	1.13	28.7
1602245	1.25	31.8
1602246	1.59	40.4
1602247	1.75	44.5
1602248	2.07	52.6
1602249	2.38	60.5
1602250	2.54	64.5
1602251	2.86	72.6
1602252	3.34	84.8

* MSHA approved.

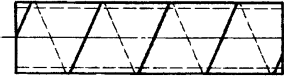


Nylon Abrasive Sleeve Steel Band*

Used to attach nylon abrasive sleeve to hose assembly for burst containment. For other applications, use nylon cable ties.

PART NUMBER	GUARD I.D.	
	(in)	(mm)
1638811	1.37	34.9
1638812	1.98	50.4
1638813	3.00	76.2
1638814	4.00	101.6

* For related assembly tooling see [page 310](#).

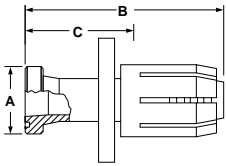


Plastic Bulk Guard

PART NUMBER	GUARD I.D.	
	(in)	(mm)
7I7439	0.51	13.0
7I1024	0.79	20.0
7Y5074	0.98	25.0

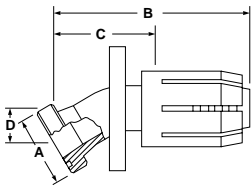
* Sold by the centimeter

XT-3 Hose Captive Flanges



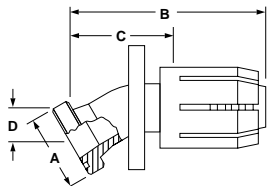
2 Hole Flange - Straight

PART NUMBER	HOSE		A HEAD SIZE (in) (mm)	A FLANGE DASH SIZE	B LENGTH (in) (mm)		C CUT-OFF FACTOR (in) (mm)		E FLANGE HOLE SPACING (mm)		F FLANGE HOLE SPACING (mm)	
	I.D. (in) (mm)	DASH SIZE			FLANGE DASH SIZE	LENGTH (in) (mm)	CUT-OFF FACTOR (in) (mm)	FLANGE HOLE SPACING (mm)				
5S9939	0.50	12.7	-8	1.19	30.2	-8	3.58	91.0	1.91	48.6	60.0	27.0
6V4654	0.75	19.1	-12	1.50	38.1	-12	3.94	100.0	2.16	54.9	64.3	32.1
7S0592	1.00	25.4	-16	1.75	44.5	-16	4.13	105.0	2.00	50.7	73.0	36.5
7S0614	1.00	25.4	-16	1.75	44.5	-16	4.13	105.0	2.17	55.1	63.5	31.8
7S0631	1.00	25.4	-16	1.75	44.5	-16	4.13	105.0	2.17	55.1	69.9	34.9
6K8325	1.00	25.4	-16	1.75	44.5	-16	5.33	136.0	3.37	85.6	64.3	32.1
7S1074	1.25	31.8	-20	2.00	50.8	-20	5.22	133.0	2.87	72.8	82.5	41.3
5S3808	1.25	31.8	-20	2.38	60.3	-24	5.22	133.0	2.87	72.8	82.6	41.3
8S8869	1.50	38.1	-24	2.38	60.3	-24	5.69	145.0	3.08	78.3	82.5	41.3



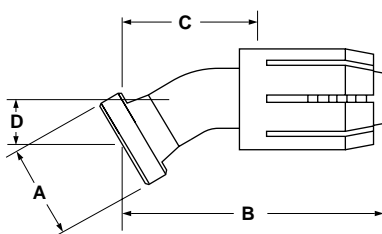
2 Hole Flange - 22 1/2° Elbow

PART NUMBER	HOSE		A HEAD SIZE (in) (mm)	A FLANGE DASH SIZE	B LENGTH (in) (mm)		C CUT-OFF FACTOR (in) (mm)		D DROP (in) (mm)		E FLANGE HOLE SPACING (mm)		F FLANGE HOLE SPACING (mm)	
	I.D. (in) (mm)	DASH SIZE			FLANGE DASH SIZE	LENGTH (in) (mm)	CUT-OFF FACTOR (in) (mm)	DROP (in) (mm)	FLANGE HOLE SPACING (mm)					
5P0922	1.00	25.4	-16	1.75	44.5	-16	4.84	123.0	2.88	73.1	0.43	11.0	63.5	31.8
7S1809	1.00	25.4	-16	1.75	44.5	-16	4.84	123.0	2.88	73.1	0.43	11.0	73.0	36.5



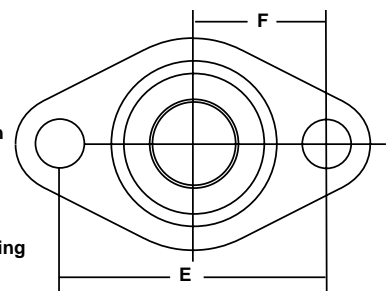
2 Hole Flange - 30° Elbow

PART NUMBER	HOSE		A HEAD SIZE (in) (mm)	A FLANGE DASH SIZE	B LENGTH (in) (mm)		C CUT-OFF FACTOR (in) (mm)		D DROP (in) (mm)		E FLANGE HOLE SPACING (mm)		F FLANGE HOLE SPACING (mm)	
	I.D. (in) (mm)	DASH SIZE			FLANGE DASH SIZE	LENGTH (in) (mm)	CUT-OFF FACTOR (in) (mm)	DROP (in) (mm)	FLANGE HOLE SPACING (mm)					
6V4663	0.75	19.1	-12	1.50	38.1	-12	3.94	100.0	2.16	54.9	0.59	15.0	64.3	32.1
7S0685	1.00	25.4	-16	1.75	44.5	-16	4.37	111.0	2.40	61.1	0.63	16.0	64.3	32.1

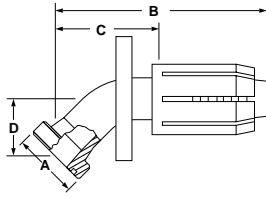


DIMENSIONS

- A Head Size
- B Stem Assembly Length
- C Cut-Off Factor
- D Drop Length
- E Bolt Hole Spacing
- F Port To Bolt Hole Spacing

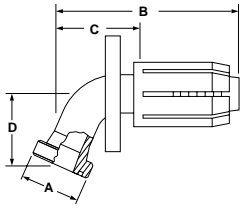


XT-3 Hose Captive Flanges



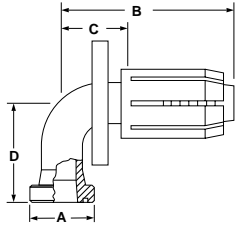
2 Hole Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		E FLANGE HOLE SPACING	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(mm)	(mm)
6V4667	0.75	19.1	-12	1.50	38.1	-12	4.07	104.0	2.30	58.4	0.96	24.5	64.3	32.1	
2P9814	1.50	38.1	-24	2.38	60.3	-24	7.34	187.0	4.74	120.3	1.44	36.5	82.5	41.3	



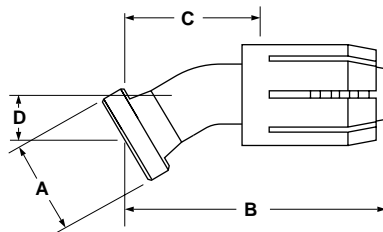
2 Hole Flange - 67 1/2° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		E FLANGE HOLE SPACING	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(mm)	(mm)
6V4674	0.75	19.1	-12	1.50	38.1	-12	4.07	104.0	2.30	58.4	1.59	40.5	64.3	32.1	



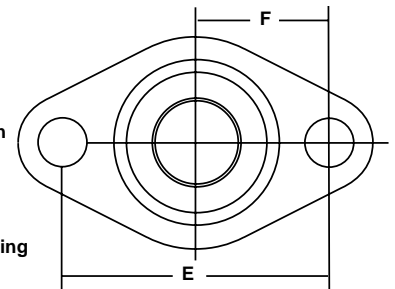
2 Hole Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE		B LENGTH		C CUT-OFF FACTOR		D DROP		E FLANGE HOLE SPACING	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(mm)	(mm)
6V4683	0.75	19.1	-12	1.50	38.1	-12	3.94	100.0	2.16	54.9	2.13	54.0	64.3	32.1	
7S0594	1.00	25.4	-16	1.75	44.5	-16	4.70	120.0	2.74	69.6	2.38	60.5	64.3	32.1	
5P3923	1.00	25.4	-16	1.75	44.5	-16	4.70	120.0	2.74	69.6	4.63	117.5	63.5	31.8	
5S2108	1.00	25.4	-16	1.75	44.5	-16	4.82	123.0	2.86	72.6	2.26	57.5	64.3	32.1	

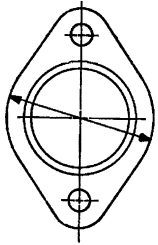


DIMENSIONS

- A Head Size
- B Stem Assembly Length
- C Cut-Off Factor
- D Drop Length
- E Bolt Hole Spacing
- F Port To Bolt Hole Spacing



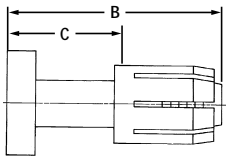
XT-3 Hose Captive Flanges



2 Hole Flange (Pre-install)*

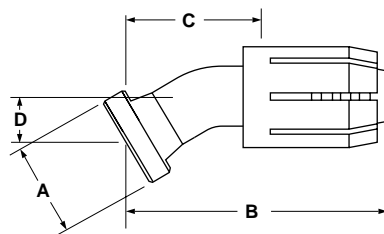
PART NUMBER	USED ON COUPLINGS
2M5762	6V4652,6V4659,6V4662,6V4665,6V4669,6V4672,6V4673,6V4676,6V4677,6V4679
6K8298	6V4652,6V4659,6V4662,6V4665,6V4669,6V4672,6V4673,6V4676,6V4677,6V4679
2K5056	5S2420
3V5642	7S3122,2P1313,1P7930

* Must be installed on the coupling prior to assembly.



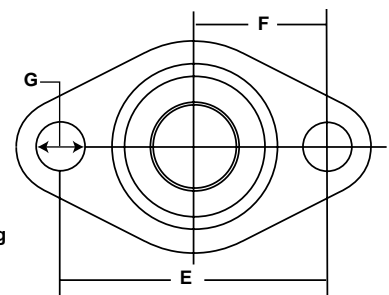
2 Hole Fixed Flange - Straight

PART NUMBER	HOSE I.D. (in)	HOSE I.D. (mm)	HOSE DASH SIZE	A FLANGE DASH SIZE	B LENGTH (in)	B LENGTH (mm)	C CUT-OFF FACTOR (in)	C CUT-OFF FACTOR (mm)	E BOLT HOLE SPACING (mm)	F FLANGE HOLE SPACING (mm)	G BOLTHOLE DIAMETER (mm)
7S1150	1.00	25.4	-16	-16	4.92	125	2.95	75	64.3	32.2	13.5
7S1212	1.00	25.4	-16	-16	4.92	125	2.95	75	70.8	38.7	13.5
7S1217	1.00	25.4	-16	—	4.92	125	2.95	75	82.6	41.3	14.3
7S1851	1.25	31.8	-20	—	5.32	135	2.97	75	82.6	41.3	14.3

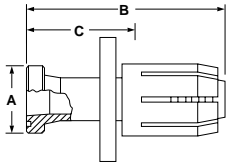


DIMENSIONS

- A Head Size
- B Stem Assembly Length
- C Cut-Off Factor
- D Drop Length
- E Bolt Hole Spacing
- F Port To Bolt Hole Spacing
- G Bolt Hole Diameter

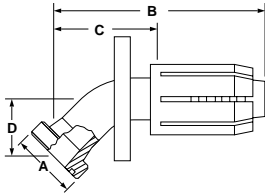


XT-3 Hose Captive Flanges



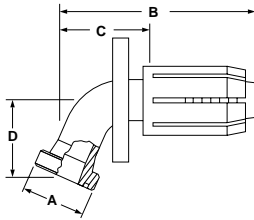
4 Hole SAE Code 61 Flange - Straight

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR	
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)
9S0681	0.50	12.7	-8	1.34	34.0	-10	4.12	105.0	2.45	62.3



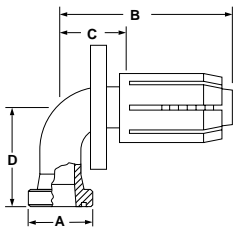
4 Hole SAE Code 61 Flange - 45° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
2P9933	1.25	31.8	-20	2.00	50.8	-20	5.93	151.0	3.58	90.8	1.18	30.0



4 Hole SAE Code 61 Flange - 67 1/2° Elbow

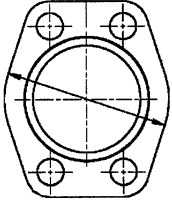
PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
9S6691	1.25	31.8	-20	2.00	50.8	-20	6.14	156.0	3.79	96.3	2.56	65.0



4 Hole SAE Code 61 Flange - 90° Elbow

PART NUMBER	HOSE I.D.		HOSE DASH SIZE	A HEAD SIZE		A FLANGE DASH SIZE	B LENGTH		C CUT-OFF FACTOR		D DROP	
	(in)	(mm)		(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)
6V4684	0.75	19.1	-12	1.50	38.1	-12	3.94	100.0	2.16	54.9	2.13	54.0
1425138	1.00	25.4	-16	2.00	50.8	-20	5.45	138.5	3.49	88.6	3.86	98.0
2P9921	1.25	31.8	-20	2.00	50.8	-20	5.98	152.0	3.63	92.3	3.58	91.0

XT-3 Hose Captive Flanges



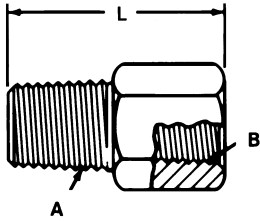
4 Hole Flange (Pre-install)*

PART NUMBER	USED ON COUPLINGS
5P5052	6V4652,6V4659,6V4662,6V4665,6V4669,6V4672,6V4673,6V4676,6V4677,6V4679

* Must be installed on the coupling prior to assembly.

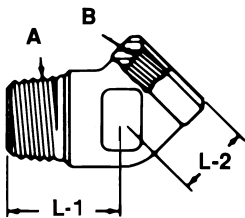
NPTF Adapters	182
JIC Adapters	188
ORFS Adapters	214
Metric Adapters	239
NPSM Adapters	249
Miscellaneous Adapters	255

NPTF Adapters



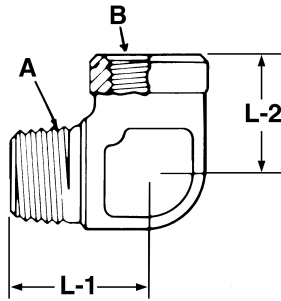
Male NPTF / Female NPTF

PART NUMBER	A	A	B	B	L	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
6K6967	-2	1/8 - 27	-2	1/8 - 27	1.02	26
4M5317	-4	1/4 - 18	-2	1/8 - 27	0.87	22
3P1823	-4	1/4 - 18	-4	1/4 - 18	1.38	35
0308370	-4	1/4 - 18	-6	3/8 - 18	1.46	37
3B7721	-6	3/8 - 18	-2	1/8 - 27	0.71	18
3B7722	-6	3/8 - 18	-4	1/4 - 18	0.87	22
0323506	-6	3/8 - 18	-8	1/2 - 14	1.69	43
8B1931	-8	1/2 - 14	-2	1/8 - 27	1.10	28
6B5072	-8	1/2 - 14	-4	1/4 - 18	1.10	28
3B7255	-8	1/2 - 14	-6	3/8 - 18	1.10	28
7D4903	-8	1/2 - 14	-8	1/2 - 14	1.89	48
0070950	-8	1/2 - 14	-12	3/4 - 14	1.93	49
7B2176	-12	3/4 - 14	-2	1/8 - 27	0.91	23
9B3523	-12	3/4 - 14	-4	1/4 - 18	1.18	30
0115224	-12	3/4 - 14	-6	3/8 - 18	0.83	21
8B2664	-12	3/4 - 14	-8	1/2 - 14	1.18	30
0045703	-12	3/4 - 14	-16	1 - 11 1/2	2.17	55
6B1628	-16	1 - 11 1/2	-6	3/8 - 18	1.38	35
0619593	-16	1 - 11 1/2	-8	1/2 - 14	0.98	25
6B9081	-16	1 - 11 1/2	-12	3/4 - 14	1.34	34
8F8306	-20	1 1/4 - 11 1/2	-12	3/4 - 14	1.14	29
6B7280	-24	1 1/2 - 11 1/2	-4	1/4 - 18	1.77	45
6F7732	-24	1 1/2 - 11 1/2	-12	3/4 - 14	1.30	33
9D9658	-32	2 - 11 1/2	-32	2 - 11 1/2	2.68	68



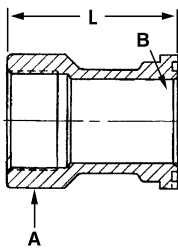
Male NPTF / Female NPTF - 45° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
8L5008	-2	1/8 - 27	-2	1/8 - 27	0.71	18	0.47	12
2N1931	-4	1/4 - 18	-4	1/4 - 18	1.06	27	0.63	16
1L2279	-6	3/8 - 18	-6	3/8 - 18	1.06	27	0.71	18
0007244	-8	1/2 - 14	-8	1/2 - 14	1.34	34	0.91	23
0007246	-12	3/4 - 14	-12	3/4 - 14	1.38	35	1.38	35
0025743	-16	1 - 11 1/2	-16	1 - 11 1/2	1.73	44	1.10	28



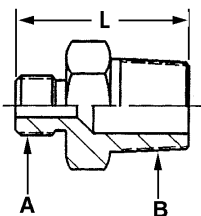
Male NPTF / Female NPTF - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
3B6552	-2	1/8 - 27	-2	1/8 - 27	0.67	17	0.79	20
6V4245	-4	1/4 - 18	-2	1/8 - 27	1.10	28	0.71	18
7J8611	-4	1/4 - 18	-4	1/4 - 18	0.87	22	1.10	28
0032143	-6	3/8 - 18	-6	3/8 - 18	0.98	25	1.22	31
0026453	-8	1/2 - 14	-8	1/2 - 14	1.22	31	1.46	37
0039163	-12	3/4 - 14	-12	3/4 - 14	1.38	35	1.57	40
0065707	-16	1 - 11 1/2	-16	1 - 11 1/2	1.61	41	1.97	50
0057541	-20	1 1/4 - 11 1/2	-20	1 1/4 - 11 1/2	1.69	43	2.40	61



Female NPTF / SAE Code 61 Flange

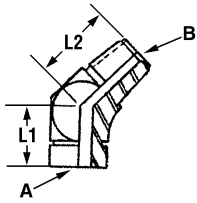
PART NUMBER	A	A	B		L	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	HEAD SIZE (in)	FLANGE DASH SIZE (mm)	(in)	(mm)
1P5568	-12	3/4 - 14	1.50	38.1	-12	2.48 63
1P5570	-16	1 - 11 1/2	1.75	44.5	-16	2.68 68
1P5575	-20	1 1/4 - 11 1/2	2.00	50.8	-20	2.83 72
8S9964	-24	1 1/2 - 11 1/2	2.38	60.3	-24	2.76 70



STOR Boss / Male NPTF

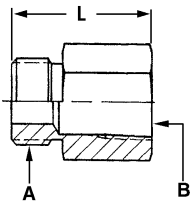
PART NUMBER	A	A	B	B	L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
1082197	-4	7/16 - 20	-2	1/8 - 27	1.02	26
3E7448	-4	7/16 - 20	-6	3/8 - 18	1.24	31
1W6256	-10	7/8 - 14	-8	1/2 - 14	1.62	41
8C3991	-24	1 7/8 - 12	-24	1 1/2 - 11 1/2	2.24	57

NPTF Adapters



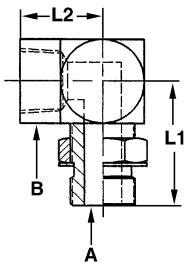
STOR Boss / Male NPTF - 45° Elbow

PART NUMBER	A	A	B	B	L1 LENGTH		L2 LENGTH	
	STOR THREAD DASH SIZE (in - TPI)	STOR THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
0870491	-6	9/16 - 18	-4	1/4 - 18	0.68	17	0.93	24



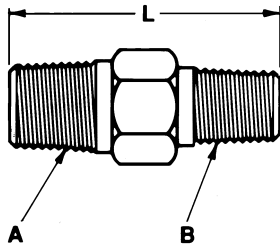
STOR Boss / Female NPTF

PART NUMBER	A	A	B	B	L LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
5P5528	-4	7/16 - 20	-2	1/8 - 27	0.98	25
5P2937	-4	7/16 - 20	-4	1/4 - 18	1.06	27
5P4487	-5	1/2 - 20	-2	1/8 - 27	1.02	26
5P4675	-5	1/2 - 20	-4	1/4 - 18	1.06	27
5P3501	-6	9/16 - 18	-4	1/4 - 18	1.10	28
5P1838	-8	3/4 - 16	-6	3/8 - 18	1.30	33
6H4746	-10	7/8 - 14	-2	1/8 - 27	0.91	23
5P4481	-10	7/8 - 14	-8	1/2 - 14	1.54	39
5P3415	-12	1 1/16 - 12	-4	1/4 - 18	1.10	28
6L9952	-12	1 1/16 - 12	-8	1/2 - 14	1.34	34
6V6760	-14	1 3/16 - 12	-8	1/2 - 14	1.10	28
3T0811	-16	1 5/16 - 12	-4	1/4 - 18	1.10	28
5P0492	-16	1 5/16 - 12	-16	1 - 11 1/2	1.89	48
8C4293	-24	1 7/8 - 12	-12	3/4 - 14	1.27	32
9X2515	-24	1 7/8 - 12	-24	1 1/2 - 11 1/2	2.13	54
9X2514	-32	2 1/2 - 12	-32	2 - 11 1/2	2.23	57



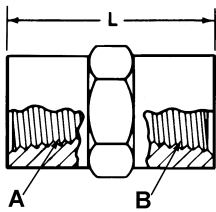
STOR Boss / Female NPTF - 90° Elbow

PART NUMBER	A	A	B	B	L1 LENGTH		L2 LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
1062105	-6	9/16 - 18	-4	1/4 - 18	1.31	33	0.88	22
9X2604	-12	1 1/16 - 12	-12	3/4 - 14	2.04	52	1.36	35
9X2101	-16	1 5/16 - 12	-16	1 - 11 1/2	2.15	55	1.62	41
7X7705	-16	1 5/16 - 12	-16	1 - 11 1/2	4.62	117	1.62	41



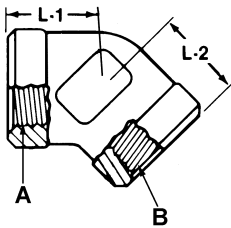
Male NPTF Union

PART NUMBER	A		B		L LENGTH	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
5K5068	-2	1/8 - 27	-2	1/8 - 27	1.06	27
8C7575	-2	1/8 - 27	-2	1/8 - 27	1.50	38
5P3238	-2	1/4 - 27	-4	1/8 - 27	1.26	32
5P8998	-4	1/4 - 18	-4	1/4 - 18	1.46	37
5S2403	-4	1/4 - 18	-6	3/8 - 18	1.46	37
0046683	-6	3/8 - 18	-6	3/8 - 18	1.46	37
0026454	-8	1/2 - 14	-8	1/2 - 14	1.89	48
0047270	-12	3/4 - 14	-12	3/4 - 14	1.97	50
0058615	-16	1 - 11 1/2	-16	1 - 11 1/2	2.32	59
1P5598	-20	1 1/4 - 11 1/2	-20	1 1/4 - 11 1/2	2.48	63



Female NPTF Union

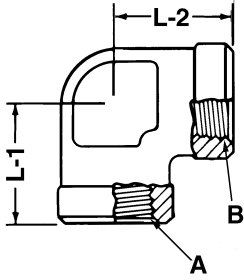
PART NUMBER	A		B		L LENGTH	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
3B6487	-2	1/8 - 27	-2	1/8 - 27	0.83	21
8S7169	-4	1/4 - 18	-4	1/4 - 18	1.14	29
0039514	-6	3/8 - 18	-6	3/8 - 18	1.14	29



Female NPTF Union - 45° Elbow

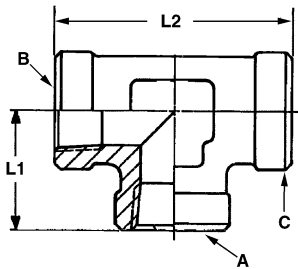
PART NUMBER	A		B		L1 LENGTH		L2 LENGTH	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
3B6493	-2	1/8 - 27	-2	1/8 - 27	0.51	13	0.51	13
5P8934	-6	3/8 - 18	-6	3/8 - 18	0.75	19	0.75	19

NPTF Adapters



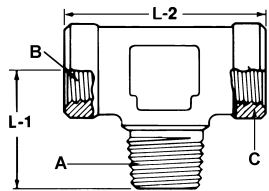
Female NPTF Union - 90° Elbow

PART NUMBER	A		B		L1 LENGTH		L2 LENGTH	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
8B4884	-2	1/8 - 27	-2	1/8 - 27	0.67	17	0.67	17
0038747	-4	1/4 - 18	-4	1/4 - 18	0.87	22	0.87	22
0039014	-6	3/8 - 18	-6	3/8 - 18	1.02	26	1.02	26
1Y0412	-8	1/2 - 14	-8	1/2 - 14	1.22	31	1.22	31
1K6937	-12	3/4 - 14	-12	3/4 - 14	1.38	35	1.38	35



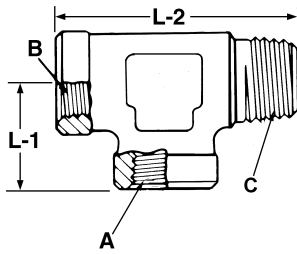
Female NPTF Union - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
5P3741	-2	1/8 - 27	-2	1/8 - 27	-2	1/8 - 27	0.67	17	1.34	34
0060210	-4	1/4 - 18	-4	1/4 - 18	-4	1/4 - 18	0.87	22	1.77	45
0038470	-6	3/8 - 18	-6	3/8 - 18	-6	3/8 - 18	1.02	26	2.05	52
1Y0413	-8	1/2 - 14	-8	1/2 - 14	-8	1/2 - 14	1.22	31	2.44	62



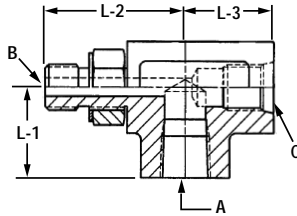
Male NPTF / Female NPTF / Female NPTF - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V1240	-2	1/8 - 27	-2	1/8 - 27	-2	1/8 - 27	0.79	20	1.34	34
0045933	-4	1/4 - 18	-4	1/4 - 18	-4	1/4 - 18	1.10	28	1.77	45
0025299	-6	3/8 - 18	-6	3/8 - 18	-6	3/8 - 18	1.22	31	2.05	52
0332177	-8	1/2 - 14	-8	1/2 - 14	-8	1/2 - 14	1.46	37	2.17	55
5P8753	-12	3/4 - 14	-12	3/4 - 14	-12	3/4 - 14	1.57	40	2.72	69
2P1306	-16	1 - 11 1/2	-16	1 - 11 1/2	-16	1 - 11 1/2	1.97	50	3.23	82



Female NPTF / Female NPTF / Male NPTF - Tee

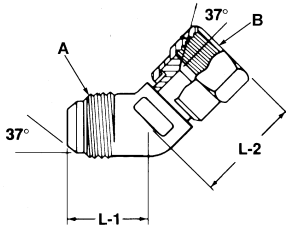
PART NUMBER	A	A	B	B	C	C	L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD DASH SIZE	(in)	(mm)	(in)	(mm)
5P3422	-2	1/8 - 27	-2	1/8 - 27	-2	1/8 - 27	0.67	17	1.34	34
2D7325	-4	1/4 - 18	-4	1/4 - 18	-4	1/4 - 18	0.87	22	1.77	45
8L6005	-6	3/8 - 18	-6	3/8 - 18	-6	3/8 - 18	1.02	26	2.05	52
0520726	-12	3/4 - 14	-12	3/4 - 14	-12	3/4 - 14	1.38	35	2.95	75



Female NPTF / STOR Boss / STOR Port - Tee

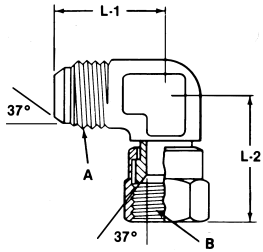
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
9X2296	-4	1/4 - 18	-4	7/16 - 20	-4	7/16 - 20	0.87	22	0.87	22	1.38	35

JIC Adapters



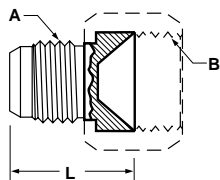
JIC 37° Male / JIC 37° Female Swivel - 45° Elbow

PART NUMBER	A		B		L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
0307961	-4	7/16 - 20	-4	7/16 - 20	0.71	18	0.94	24
0311864	-5	1/2 - 20	-5	1/2 - 20	0.79	20	0.98	25
0307962	-6	9/16 - 18	-6	9/16 - 18	0.83	21	1.10	28
0307963	-8	3/4 - 16	-8	3/4 - 16	0.98	25	1.30	33
0307964	-10	7/8 - 14	-10	7/8 - 14	1.10	28	1.46	37
0307965	-12	1 1/16 - 12	-12	1 1/16 - 12	1.30	33	1.50	38
5P0789	-14	1 3/16 - 12	-14	1 3/16 - 12	1.38	35	1.61	41
0307966	-16	1 5/16 - 12	-16	1 5/16 - 12	1.46	37	1.77	45
0307967	-20	1 5/8 - 12	-20	1 5/8 - 12	1.57	40	2.05	52



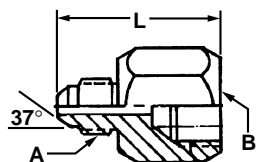
JIC 37° Male / JIC 37° Female Swivel - 90° Elbow

PART NUMBER	A		B		L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
7K9197	-4	7/16 - 20	-4	7/16 - 20	0.91	23	0.98	25
7K3324	-5	1/2 - 20	-5	1/2 - 20	0.94	24	1.06	27
5P9464	-6	9/16 - 18	-4	7/16 - 20	1.06	27	1.13	29
6K9194	-6	9/16 - 18	-6	9/16 - 18	1.26	32	1.06	27
1124387	-8	3/4 - 16	-6	9/16 - 18	1.25	32	0.96	24
8M0547	-8	3/4 - 16	-8	3/4 - 16	1.26	32	1.38	35
8K2396	-10	7/8 - 14	-8	3/4 - 16	1.46	37	1.54	39
0307972	-10	7/8 - 14	-10	7/8 - 14	1.46	37	1.61	41
2M9786	-12	1 1/16 - 12	-10	7/8 - 14	1.65	42	1.69	43
3R9704	-12	1 1/16 - 12	-12	1 1/16 - 12	1.65	42	1.77	45
6S2910	-14	1 3/16 - 12	-14	1 3/16 - 12	1.77	45	1.73	44
0315744	-16	1 5/16 - 12	-16	1 5/16 - 12	1.81	46	2.01	51
0307975	-20	1 5/8 - 12	-20	1 5/8 - 12	2.05	52	2.32	59



JIC 37° Male / JIC 37° Female Swivel - Loose Nut

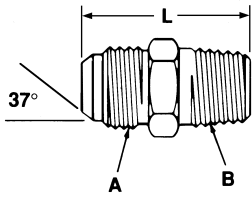
PART NUMBER	A		B		L LENGTH		NUT PART NUMBER
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	
0308142	-4	7/16 - 20	-6	9/16 - 18	0.98	25	3R4437
7J5614	-4	7/16 - 20	-8	3/4 - 16	0.98	25	1P1441
0306935	-4	7/16 - 20	-10	7/8 - 14	1.02	26	5H0275
0618268	-4	7/16 - 20	-12	1 1/16 - 12	1.10	28	8M0744
0308144	-6	9/16 - 18	-8	3/4 - 16	0.98	25	1P1441
0308145	-6	9/16 - 18	-10	7/8 - 14	1.02	26	5H0275
0306936	-6	9/16 - 18	-12	1 1/16 - 12	1.10	28	8M0744
8M0745	-8	3/4 - 16	-12	1 1/16 - 12	1.18	30	8M0744
0729601	-10	7/8 - 14	-16	1 5/16 - 12	1.38	35	1P0043
0676684	-12	1 1/16 - 12	-16	1 5/16 - 12	1.46	37	1P0043
0686078	-12	1 1/16 - 12	-20	1 5/8 - 12	1.54	39	2P8148
6V0411	-16	1 5/16 - 12	-20	1 5/8 - 12	1.59	40	2P8148



JIC 37° Male / JIC 37° Female Swivel - Captive Nut

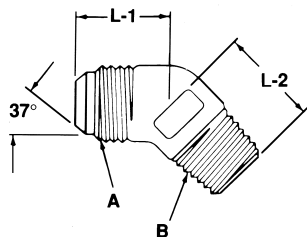
PART NUMBER	A		B		L LENGTH	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
5P5009	-4	7/16 - 20	-5	1/2 - 20	1.22	31
5P5008	-4	7/16 - 20	-6	9/16 - 18	1.26	32
5P5007	-4	7/16 - 20	-8	3/4 - 16	1.50	38
5P5006	-4	7/16 - 20	-10	7/8 - 14	1.98	50
5P5005	-4	7/16 - 20	-12	1 1/16 - 12	2.13	54
5P5004	-4	7/16 - 20	-14	1 3/16 - 12	2.22	56
5P5003	-4	7/16 - 20	-16	1 5/16 - 12	2.28	58
5P7540	-8	3/4 - 16	-6	9/16 - 18	1.73	44
5P8228	-8	3/4 - 16	-10	7/8 - 14	1.44	37
6V9012	-10	7/8 - 14	-8	3/4 - 16	1.81	46
8T2270	-10	7/8 - 14	-10	7/8 - 14	3.54	90
5P1945	-10	7/8 - 14	-12	1 1/16 - 12	1.80	46
5P9789	-12	1 1/16 - 12	-8	3/4 - 16	1.57	40
6V7484	-14	1 3/16 - 12	-16	1 5/16 - 12	1.91	49
8C6713	-20	1 5/8 - 12	-16	1 5/16 - 12	1.71	43
7X7686	-24	1 7/8 - 12	-16	1 5/16 - 12	2.82	72

JIC Adapters



JIC 37° Male / Male NPTF

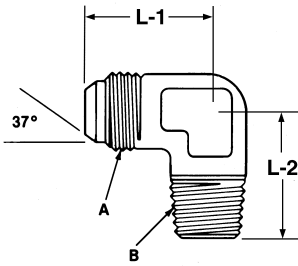
PART NUMBER	A		B		L LENGTH	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
6V1389	-2	5/16 - 24	-2	1/8 - 27	1.10	28
8L6557	-4	7/16 - 20	-2	1/8 - 27	1.22	31
5P6437	-4	7/16 - 20	-2	1/8 - 27	2.31	59
4S6399	-4	7/16 - 20	-4	1/4 - 18	1.42	36
0016449	-4	7/16 - 20	-6	3/8 - 18	1.42	36
0019440	-4	7/16 - 20	-8	1/2 - 14	1.69	43
0017025	-5	1/2 - 20	-2	1/8 - 27	1.22	31
6L9781	-6	9/16 - 18	-2	1/8 - 27	1.26	32
0321267	-6	9/16 - 18	-4	1/4 - 18	1.42	36
5P6661	-6	9/16 - 18	-4	1/4 - 18	2.24	57
8L3282	-6	9/16 - 18	-6	3/8 - 18	1.42	36
7D5363	-6	9/16 - 18	-8	1/2 - 14	1.69	43
0619463	-8	3/4 - 16	-4	1/4 - 18	1.54	39
8M0755	-8	3/4 - 16	-6	3/8 - 18	1.54	39
3R5387	-8	3/4 - 16	-8	1/2 - 14	1.77	45
1180280	-8	3/4 - 16	-8	1/2 - 14	2.80	71
0047626	-8	3/4 - 16	-12	3/4 - 14	1.77	45
0017004	-10	7/8 - 14	-6	3/8 - 18	1.89	48
9M6522	-10	7/8 - 14	-8	1/2 - 14	1.89	48
0016412	-10	7/8 - 14	-12	3/4 - 14	1.97	50
0308310	-12	1 1/16 - 12	-8	1/2 - 14	1.97	50
4S6678	-12	1 1/16 - 12	-12	3/4 - 14	2.05	52
0043099	-12	1 1/16 - 12	-16	1 - 11 1/2	2.24	57
0017003	-14	1 3/16 - 12	-8	1/2 - 14	2.09	53
2P1289	-14	1 3/16 - 12	-12	3/4 - 14	2.09	53
0308307	-16	1 5/16 - 12	-12	3/4 - 14	2.13	54
0094440	-16	1 5/16 - 12	-16	1 - 11 1/2	2.28	58
6K3459	-16	1 5/16 - 12	-20	1 1/4 - 11 1/2	2.40	61
6K3457	-20	1 5/8 - 12	-20	1 1/4 - 11 1/2	2.44	62
0350750	-20	1 5/8 - 12	-24	1 - 11 1/2	2.33	59
0308309	-24	1 7/8 - 12	-20	1 1/4 - 11 1/2	2.64	67



JIC 37° Male / Male NPTF - 45° Elbow

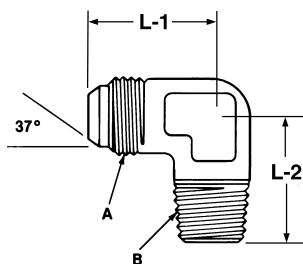
PART NUMBER	A		B		L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
9L5125	-4	7/16 - 20	-2	1/8 - 27	0.71	18	0.63	16
5J7303	-4	7/16 - 20	-4	1/4 - 18	0.83	21	0.87	22
0016498	-6	9/16 - 18	-4	1/4 - 18	0.87	22	0.83	21
4W4076	-6	9/16 - 18	-6	3/8 - 18	0.83	21	0.94	24
2N1288	-8	3/4 - 16	-6	3/8 - 18	0.94	24	0.94	24
0017043	-8	3/4 - 16	-8	1/2 - 14	1.10	28	1.18	30
0903000	-10	7/8 - 14	-6	3/8 - 18	1.10	28	1.18	30
9L5254	-10	7/8 - 14	-8	1/2 - 14	1.10	28	1.18	30
0316303	-12	1 1/16 - 12	-8	1/2 - 14	1.26	32	1.18	30
0016304	-12	1 1/16 - 12	-12	3/4 - 14	1.26	32	1.18	30
0338734	-12	1 1/16 - 12	-16	1 - 11 1/2	1.42	36	1.50	38
2P1311	-14	1 3/16 - 12	-12	3/4 - 14	1.38	35	1.26	32
0017042	-16	1 5/16 - 12	-12	3/4 - 14	1.46	37	1.26	32
2P1312	-16	1 5/16 - 12	-16	1 - 11 1/2	1.46	37	1.50	38
0321416	-20	1 5/8 - 12	-24	1 1/2 - 11 1/2	1.65	42	1.77	45
0314629	-24	1 7/8 - 12	-24	1 1/2 - 11 1/2	1.77	45	1.77	45

JIC Adapters



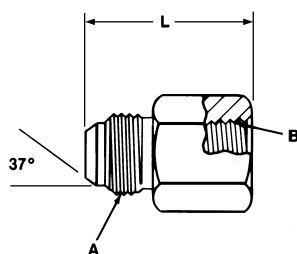
JIC 37° Male / Male NPTF - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
7K3030	-3	3/8 - 24	-2	1/8 - 27	0.83	21	0.71	18
2N1287	-4	7/16 - 20	-2	1/8 - 27	0.91	23	0.79	20
5P4479	-4	7/16 - 20	-2	1/8 - 27	0.91	23	1.18	30
5P2657	-4	7/16 - 20	-4	1/4 - 18	1.05	27	1.70	43
6K1972	-4	7/16 - 20	-4	1/4 - 18	1.06	27	1.09	28
7J6420	-5	1/2 - 20	-2	1/8 - 27	0.91	23	0.79	20
5P8238	-5	1/2 - 20	-4	1/4 - 18	1.06	27	1.10	28
5P4592	-6	9/16 - 18	-2	1/8 - 27	1.06	27	0.98	25
0321268	-6	9/16 - 18	-4	1/4 - 18	1.06	27	1.10	28
8T0169	-6	9/16 - 18	-4	1/4 - 18	1.06	27	1.57	40
2N8037	-6	9/16 - 18	-6	3/8 - 18	1.26	32	1.22	31
7D8793	-6	9/16 - 18	-8	1/2 - 14	1.26	32	1.46	37
6L9777	-8	3/4 - 16	-4	1/4 - 18	1.26	32	1.22	31
0099696	-8	3/4 - 16	-4	1/4 - 18	2.20	56	1.26	32
7L7262	-8	3/4 - 16	-6	3/8 - 18	1.26	32	1.22	31
9L5094	-8	3/4 - 16	-6	3/8 - 18	1.81	46	1.26	32
0030632	-8	3/4 - 16	-6	3/8 - 18	4.25	108	1.26	32
2N3378	-8	3/4 - 16	-8	1/2 - 14	1.42	36	1.46	37
0330442	-8	3/4 - 16	-8	1/2 - 14	2.24	57	1.34	34
0030633	-8	3/4 - 16	-8	1/2 - 14	4.25	108	1.30	33
0520741	-8	3/4 - 16	-12	3/4 - 14	1.42	36	1.57	40
0062325	-10	7/8 - 14	-6	3/8 - 14	1.46	37	1.30	33
0321269	-10	7/8 - 14	-8	1/2 - 14	1.46	37	1.46	37
0016936	-10	7/8 - 14	-8	1/2 - 14	2.20	56	1.46	37
0330414	-10	7/8 - 14	-8	1/2 - 14	2.87	73	1.46	37
0316742	-10	7/8 - 14	-8	1/2 - 14	4.29	109	1.46	37
0616717	-10	7/8 - 14	-12	3/4 - 14	1.57	40	1.57	40
0311358	-12	1 1/6 - 12	-8	1/2 - 14	1.65	42	1.57	40
0015744	-12	1 1/6 - 12	-8	1/2 - 14	1.65	42	2.44	62
0016301	-12	1 1/6 - 12	-12	3/4 - 14	1.65	42	1.57	40
0017039	-12	1 1/6 - 12	-12	3/4 - 14	1.65	42	2.44	62
0021199	-12	1 1/6 - 12	-12	3/4 - 14	3.23	82	1.65	42
2P8511	-12	1 1/6 - 12	-16	1 - 11 1/2	1.77	45	1.97	50
0310782	-14	1 3/16 - 12	-12	3/4 - 14	1.73	44	1.69	43
9L4007	-16	1 5/16 - 12	-12	3/4 - 14	1.81	46	1.57	40
6V8649	-16	1 5/16 - 12	-12	3/4 - 14	1.81	46	2.31	59
9S7296	-16	1 5/16 - 12	-16	1 - 11 1/2	1.81	46	1.97	50
0300702	-16	1 5/16 - 12	-20	1 1/4 - 11 1/2	2.01	51	2.36	60
6K3458	-20	1 5/8 - 12	-20	1 1/4 - 11 1/2	2.05	52	2.36	60
0321357	-20	1 5/8 - 12	-24	1 1/2 - 11 1/2	2.20	56	2.24	57



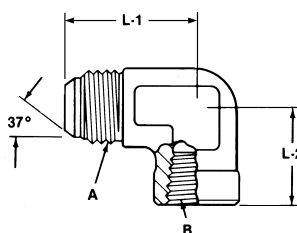
JIC 37° Male / Male NPTF - 90° Elbow (cont.)

PART NUMBER	A	A	B	B	L1		L2	
	JIC	JIC	NPTF	NPTF	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD	THREAD	THREAD	THREAD	(in)	(mm)	(in)	(mm)
	DASH	SIZE	DASH	SIZE				
	SIZE	(in - TPI)	SIZE	(in - TPI)				
0321523	-24	17/8 - 12	-24	1 1/2 - 11 1/2	2.32	59	2.24	57



JIC 37° Male / Female NPTF

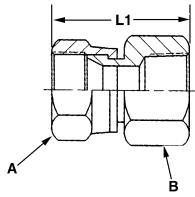
PART NUMBER	A	A	B	B	L	
	JIC	JIC	NPTF	NPTF	LENGTH	LENGTH
	THREAD	THREAD	THREAD	THREAD	(in)	(mm)
	DASH	SIZE	DASH	SIZE		
	SIZE	(in - TPI)	SIZE	(in - TPI)		
5D9231	-4	7/16 - 20	-2	1/8 - 27	1.18	30
0617921	-4	7/16 - 20	-4	1/4 - 18	1.34	34
7K3762	-5	1/2 - 20	-2	1/8 - 27	1.18	30
5P8869	-6	9/16 - 18	-4	1/4 - 18	1.46	37
0530088	-6	9/16 - 18	-6	3/8 - 18	1.57	40
0619413	-8	3/4 - 16	-6	3/8 - 18	1.57	40
6V1846	-10	7/8 - 14	-8	1/2 - 14	1.89	48
0618246	-12	1 1/16 - 12	-12	3/4 - 14	2.05	52
0017041	-14	1 3/16 - 12	-12	3/4 - 14	2.05	52
0618962	-16	1 5/16 - 12	-16	1 - 11 1/2	2.36	60



JIC 37° Male / Female NPTF - 90° Elbow

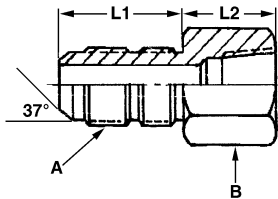
PART NUMBER	A	A	B	B	L1		L2	
	JIC	JIC	NPTF	NPTF	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD	THREAD	THREAD	THREAD	(in)	(mm)	(in)	(mm)
	DASH	SIZE	DASH	SIZE				
	SIZE	(in - TPI)	SIZE	(in - TPI)				
3S1099	-4	7/16 - 20	-2	1/8 - 27	0.67	17	1.06	27
8J3031	-5	1/2 - 20	-4	1/4 - 18	1.02	26	0.91	23
5P1883	-6	9/16 - 18	-4	1/4 - 18	0.87	22	1.22	31
5P3273	-6	9/16 - 18	-6	3/8 - 18	1.34	34	1.02	26
3N3893	-16	1 5/16 - 12	-16	1 - 11 1/2	2.17	55	1.61	41

JIC Adapters



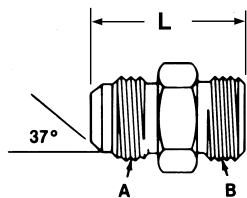
JIC 37° Female / Female NPTF

PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
9J6190	-6	9/16 - 18	-6	3/8 - 18	1.62	41
5P8018	-8	3/4 - 16	-6	3/8 - 18	1.66	42
6V2481	-8	3/4 - 16	-8	1/2 - 14	1.81	46
9S0177	-10	7/8 - 14	-6	3/8 - 18	1.73	44
8C8552	-10	7/8 - 14	-8	1/2 - 14	1.97	50
5T2119	-12	1 1/16 - 12	-8	1/2 - 14	1.49	38
8C8553	-12	1 1/16 - 12	-12	3/4 - 14	2.05	52
8C3999	-16	1 5/16 - 12	-8	1/2 - 14	2.28	58
5P2244	-16	1 5/16 - 12	-16	1 - 11 1/2	2.65	67



Bulkhead JIC 37° Male / Female NPTF

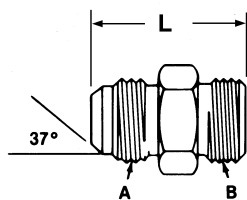
PART NUMBER	A	A	B	B	L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
5P6941	-4	7/16 - 20	-2	1/8 - 27	1.84	47	1.23	31
5P4653	-6	9/16 - 18	-4	1/4 - 18	2.06	52	1.28	33
8T3569	-8	3/4 - 16	-6	3/8 - 18	2.41	61	1.44	37
6V2376	-8	3/4 - 16	-8	1/2 - 14	2.57	65	1.44	37



JIC 37° Male / STOR Boss

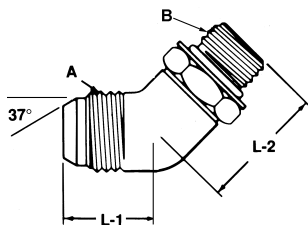
PART NUMBER	A		B		L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
2P1307	-3	3/8 - 24	-3	3/8 - 24	1.10	28
6V0394	-4	7/16 - 20	-2	5/16 - 24	1.02	26
1198096	-4	7/16 - 20	-2	5/16 - 24	1.26	32
3J7352	-4	7/16 - 20	-4	7/16 - 20	1.22	31
9K5469	-4	7/16 - 20	-4	7/16 - 20	2.05	52
0306984	-4	7/16 - 20	-5	1/2 - 20	1.22	31
2P1314	-4	7/16 - 20	-6	9/16 - 18	1.30	33
7I2022	-4	7/16 - 20	-6	9/16 - 18	2.17	55
0308193	-4	7/16 - 20	-8	3/4 - 16	1.38	35
0308195	-4	7/16 - 20	-10	7/8 - 14	1.50	38
6K9354	-5	1/2 - 20	-5	1/2 - 20	1.22	31
5P0419	-5	1/2 - 20	-6	9/16 - 18	1.30	33
0303978	-6	9/16 - 18	-4	7/16 - 20	1.30	33
6V9152	-6	9/16 - 18	-4	7/16 - 20	2.08	53
5P2618	-6	9/16 - 18	-5	1/2 - 20	1.26	32
2R6806	-6	9/16 - 18	-6	9/16 - 18	1.30	33
7W2122	-6	9/16 - 18	-6	9/16 - 18	1.30	33
5P9097	-6	9/16 - 18	-6	9/16 - 18	1.30	33
0307936	-6	9/16 - 18	-6	9/16 - 18	1.89	48
1P1376	-6	9/16 - 18	-6	9/16 - 18	2.32	59
0307937	-6	9/16 - 18	-6	9/16 - 18	3.50	89
8T3020	-6	9/16 - 18	-8	3/4 - 16	1.34	34
0308188	-6	9/16 - 18	-8	3/4 - 16	1.38	35
8D9088	-6	9/16 - 18	-8	3/4 - 16	2.13	54
0308194	-6	9/16 - 18	-10	7/8 - 14	1.50	38
8M0506	-8	3/4 - 16	-6	9/16 - 18	1.42	36
8M0505	-8	3/4 - 16	-8	3/4 - 16	1.50	38
9D2673	-8	3/4 - 16	-8	3/4 - 16	2.25	57
0308110	-8	3/4 - 16	-8	3/4 - 16	2.72	69
6K3607	-8	3/4 - 16	-10	7/8 - 14	1.46	37
0335691	-8	3/4 - 16	-10	7/8 - 14	2.95	75
0308189	-8	3/4 - 16	-12	1 1/16 - 12	1.77	45
2P8430	-8	3/4 - 16	-16	15/16 - 12	1.77	45
0531069	-10	7/8 - 14	-4	7/16 - 20	1.56	40
6V4362	-10	7/8 - 14	-6	9/16 - 18	1.57	40
2P7636	-10	7/8 - 14	-8	3/4 - 16	1.65	42
0304285	-10	7/8 - 14	-8	3/4 - 16	2.80	71
9M4584	-10	7/8 - 14	-10	7/8 - 14	1.69	43
2P1292	-10	7/8 - 14	-10	7/8 - 14	3.03	77
0308190	-10	7/8 - 14	-12	1 1/16 - 12	1.85	47

JIC Adapters



JIC 37° Male / STOR Boss (cont.)

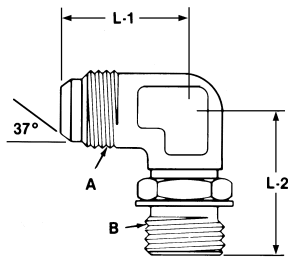
PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
8K0802	-10	7/8 - 14	-14	13/16 - 12	1.85	47
0686074	-10	7/8 - 14	-16	15/16 - 12	1.85	47
5P2574	-12	1 1/16 - 12	-8	3/4 - 16	1.81	46
5P9973	-12	1 1/16 - 12	-10	7/8 - 14	1.86	47
0308196	-12	1 1/16 - 12	-10	7/8 - 14	1.87	48
2R6276	-12	1 1/16 - 12	-12	1 1/16 - 12	1.97	50
9D0884	-12	1 1/16 - 12	-12	1 1/16 - 12	2.76	70
3P1427	-12	1 1/16 - 12	-12	1 1/16 - 12	3.31	84
5P9172	-12	1 1/16 - 12	-12	1 1/16 - 12	4.41	112
9K1242	-12	1 1/16 - 12	-14	13/16 - 12	1.97	50
7E1456	-12	1 1/16 - 12	-14	13/16 - 12	5.31	135
4S6680	-12	1 1/16 - 12	-16	15/16 - 12	2.01	51
2P2061	-12	1 1/16 - 12	-16	15/16 - 12	2.48	63
8T0195	-14	1 3/16 - 12	-10	7/8 - 14	2.13	54
6V8856	-14	1 3/16 - 12	-12	1 1/16 - 12	2.01	51
6V8857	-14	1 3/16 - 12	-12	1 1/16 - 12	4.53	115
7J7187	-14	1 3/16 - 12	-14	1 3/16 - 12	2.01	51
6K3626	-14	1 3/16 - 12	-16	15/16 - 12	1.85	47
0314140	-16	1 5/16 - 12	-10	7/8 - 14	2.05	52
3R6790	-16	1 5/16 - 12	-12	1 1/16 - 12	1.89	48
9X6448	-16	1 5/16 - 12	-12	1 1/16 - 12	2.04	52
5G7111	-16	1 5/16 - 12	-12	1 1/16 - 12	3.35	85
5P3237	-16	1 5/16 - 12	-14	1 3/16 - 12	2.01	51
0307935	-16	1 5/16 - 12	-16	1 5/16 - 12	2.05	52
3P0440	-16	1 5/16 - 12	-16	1 5/16 - 12	2.64	67
8T0700	-16	1 5/16 - 12	-16	1 5/16 - 12	3.15	80
5P4248	-16	1 5/16 - 12	-16	1 5/16 - 12	3.98	101
4S6797	-16	1 5/16 - 12	-20	1 5/8 - 12	2.13	54
7D5318	-20	1 5/8 - 12	-16	1 5/16 - 12	2.17	55
0318759	-20	1 5/8 - 12	-20	1 5/8 - 12	2.17	55
6K3460	-20	1 5/8 - 12	-24	1 7/8 - 12	2.09	53
6K3461	-24	1 7/8 - 12	-24	1 7/8 - 12	2.36	60
7X7678	-32	2 1/2 - 12	-32	2 1/2 - 12	2.80	71



JIC 37° Male / STOR Boss - 45° Elbow

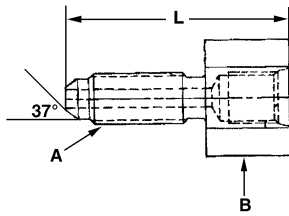
PART NUMBER	A		B		L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
0307941	-4	7/16 - 20	-4	7/16 - 20	0.71	18	1.06	27
9L8868	-4	7/16 - 20	-5	1/2 - 20	0.71	18	1.06	27
0316085	-5	1/2 - 20	-5	1/2 - 20	0.79	20	1.06	27
6V9996	-6	9/16 - 18	-4	7/16 - 20	0.83	21	1.08	28
6V2612	-6	9/16 - 18	-5	1/2 - 20	0.83	21	1.11	28
0307942	-6	9/16 - 18	-6	9/16 - 18	0.83	21	1.14	29
7D9984	-6	9/16 - 18	-8	3/4 - 16	0.83	21	1.30	33
0307943	-8	3/4 - 16	-8	3/4 - 16	0.98	25	1.30	33
5P4318	-8	3/4 - 16	-10	7/8 - 14	1.02	26	1.54	39
6M7476	-10	7/8 - 14	-10	7/8 - 14	1.10	28	1.54	39
5P3264	-12	1 1/16 - 12	-10	7/8 - 14	1.30	33	1.57	40
0307944	-12	1 1/16 - 12	-12	1 1/16 - 12	1.30	33	1.73	44
2P8072	-12	1 1/16 - 12	-12	1 1/16 - 12	3.35	85	1.73	44
0053969	-16	1 5/16 - 12	-12	1 1/16 - 12	1.46	37	1.85	47
0307945	-16	1 5/16 - 12	-16	1 5/16 - 12	1.46	37	1.85	47
6V2415	-16	1 5/16 - 12	-20	1 5/8 - 12	1.18	30	1.89	48
0329267	-20	1 5/8 - 12	-20	1 5/8 - 12	1.57	40	1.93	49
0319567	-24	1 7/8 - 12	-24	1 7/8 - 12	1.77	45	1.93	49

JIC Adapters



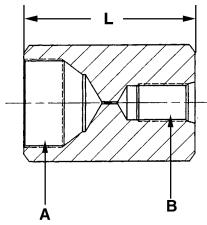
JIC 37° Male / STOR Boss - 90° Elbow

PART NUMBER	A		B		L1		L2	
	JIC THREAD DASH SIZE	A JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	B STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
0307946	-4	7/16 - 20	-4	7/16 - 20	0.91	23	1.02	26
5P3426	-4	7/16 - 20	-4	7/16 - 20	0.91	23	1.73	44
3N1294	-4	7/16 - 20	-5	1/2 - 20	0.94	24	1.10	28
7J4026	-4	7/16 - 20	-6	9/16 - 18	0.94	24	1.22	31
0306816	-5	1/2 - 20	-5	1/2 - 20	0.94	24	1.10	28
5P2645	-6	9/16 - 18	-4	7/16 - 20	1.06	27	1.18	30
6V0416	-6	9/16 - 18	-4	7/16 - 20	1.06	27	1.57	40
8K0968	-6	9/16 - 18	-5	1/2 - 20	1.06	27	1.18	30
0307947	-6	9/16 - 18	-6	9/16 - 18	1.06	27	1.26	32
2P7214	-6	9/16 - 18	-6	9/16 - 18	1.06	27	2.09	53
0308156	-6	9/16 - 18	-6	9/16 - 18	1.06	27	2.20	56
0054362	-6	9/16 - 18	-8	3/4 - 16	1.14	29	1.46	37
4K6297	-8	3/4 - 16	-6	9/16 - 18	1.22	31	1.34	34
0308276	-8	3/4 - 16	-6	9/16 - 18	1.26	32	2.80	71
0307948	-8	3/4 - 16	-8	3/4 - 16	1.26	32	1.46	37
3P2001	-8	3/4 - 16	-8	3/4 - 16	1.26	32	2.52	64
0308027	-8	3/4 - 16	-8	3/4 - 16	1.26	32	4.45	11
0054173	-8	3/4 - 16	-10	7/8 - 14	1.34	34	1.69	43
3P2298	-8	3/4 - 16	-12	1 1/16 - 12	1.46	37	1.93	49
1P7625	-10	7/8 - 14	-8	3/4 - 16	1.46	37	1.57	40
8K6686	-10	7/8 - 14	-10	7/8 - 14	1.44	37	2.22	56
0307949	-10	7/8 - 14	-10	7/8 - 14	1.46	37	1.69	43
0050658	-10	7/8 - 14	-12	1 1/16 - 12	1.54	39	1.93	49
0328414	-12	1 1/16 - 12	-8	3/4 - 16	1.65	42	1.65	42
0684174	-12	1 1/16 - 12	-10	7/8 - 14	1.65	42	1.69	43
0342136	-12	1 1/16 - 12	-12	1 1/16 - 12	1.64	42	2.52	64
0307950	-12	1 1/16 - 12	-12	1 1/16 - 12	1.65	42	1.93	49
5P3411	-12	1 1/16 - 12	-12	1 1/16 - 12	1.65	42	3.35	85
8K2377	-12	1 1/16 - 12	-14	1 3/16 - 12	1.69	43	2.01	51
5P3466	-12	1 1/16 - 12	-16	1 5/16 - 12	1.77	45	2.05	52
0317600	-14	1 3/16 - 12	-14	1 3/16 - 12	1.73	44	2.01	51
0088381	-16	1 5/16 - 12	-12	1 1/16 - 12	1.81	46	2.05	52
0926981	-16	1 5/16 - 12	-12	1 1/16 - 12	1.81	46	2.44	62
5P6416	-16	1 5/16 - 12	-14	1 3/16 - 12	1.81	46	2.05	52
0307951	-16	1 5/16 - 12	-16	1 5/16 - 12	1.81	46	2.05	52
0300701	-16	1 5/16 - 12	-20	1 5/8 - 12	2.01	51	2.24	57
0086325	-20	1 5/8 - 12	-16	1 5/16 - 12	2.05	52	2.24	57
6M5652	-20	1 5/8 - 12	-20	1 5/8 - 12	2.05	52	2.24	57
0307953	-24	1 7/8 - 12	-24	1 7/8 - 12	2.32	59	2.40	61



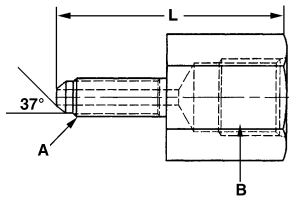
JIC 37° Male / STOR Port

PART NUMBER	A		B		L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
5R5107	-4	7/16 - 20	-4	7/16 - 20	1.89	48



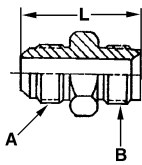
JIC 37° Female / STOR Port

PART NUMBER	A		B		L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
8T2909	-6	9/16 - 18	-6	9/16 - 18	1.54	39
6V8925	-8	3/4 - 16	-6	9/16 - 18	1.38	35
8C8921	-16	15/16 - 12	-6	9/16 - 18	2.17	55
9X2124	-16	15/16 - 12	-6	9/16 - 18	2.52	64



Bulkhead JIC 37° Male / STOR Port

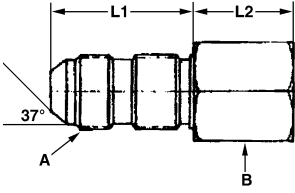
PART NUMBER	A		B		L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
1137696	-4	7/16 - 20	-10	7/8 - 14	2.62	67



JIC 37° Male / SAE Inverted Flare Male

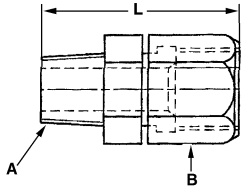
PART NUMBER	A		B		L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	SAE THREAD DASH SIZE	SAE THREAD SIZE (in - TPI)	(in)	(mm)
6V6868	-5	1/2 - 20	-5	1/2 - 20	1.14	29

JIC Adapters



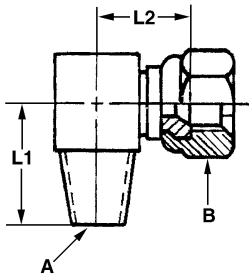
Bulkhead JIC 37° Male / SAE Inverted Flare Female

PART NUMBER	A	A	B	B	L1		L2	
	JIC	JIC	SAE	SAE	LENGTH	LENGTH	(in)	(mm)
	THREAD	THREAD	THREAD	THREAD			(in)	(mm)
	DASH	SIZE	DASH	SIZE				
	SIZE	(in - TPI)	SIZE	(in - TPI)				
1P8335	-8	3/4 - 16	-8	3/4 - 16	2.50	64	1.44	37



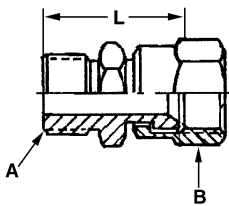
Male NPTF / JIC 37° Female

PART NUMBER	A	A	B	B	L	
	NPTF	NPTF	JIC	JIC	LENGTH	LENGTH
	THREAD	THREAD	THREAD	THREAD	(in)	(mm)
	DASH	SIZE	DASH	SIZE		
	SIZE	(in - TPI)	SIZE	(in - TPI)		
6U0464	-6	3/8 - 18	-8	3/4 - 16	1.85	47



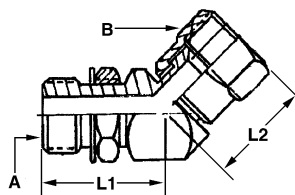
Male NPTF / JIC 37° Female - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	NPTF	NPTF	JIC	JIC	LENGTH	LENGTH	(in)	(mm)
	THREAD	THREAD	THREAD	THREAD			(in)	(mm)
	DASH	SIZE	DASH	SIZE				
	SIZE	(in - TPI)	SIZE	(in - TPI)				
5R5708	-6	3/8 - 18	-8	3/4 - 16	1.22	31	0.98	25



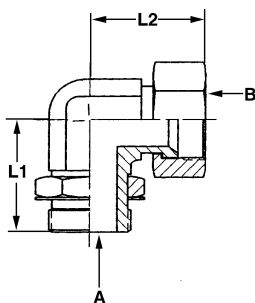
STOR Boss / JIC 37° Female

PART NUMBER	A	A	B	B	L	
	STOR	STOR	JIC	JIC	LENGTH	LENGTH
	THREAD	THREAD	THREAD	THREAD	(in)	(mm)
	DASH	SIZE	DASH	SIZE		
	SIZE	(in - TPI)	SIZE	(in - TPI)		
6V8104	-6	9/16 - 18	-6	9/16 - 18	1.14	29
5J3178	-6	9/16 - 18	-6	9/16 - 18	1.63	41
5P4588	-6	9/16 - 18	-8	3/4 - 16	1.06	27
5P4269	-12	1 1/16 - 12	-12	1 1/16 - 12	1.33	34



STOR Boss / JIC 37° Female - 45° Elbow

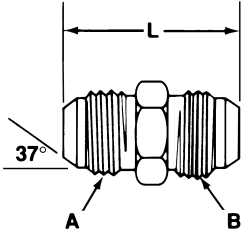
PART NUMBER	A	A	B	B	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
0339216	-6	9/16 - 18	-4	7/16 - 20	1.06	27	0.94	24



STOR Boss / JIC 37° Female - 90° Elbow

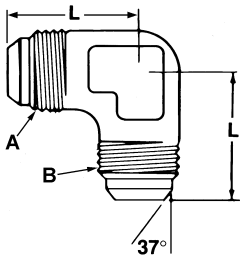
PART NUMBER	A	A	B	B	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
0312716	-4	7/16 - 20	-4	7/16 - 20	1.03	26	1.00	25
0338129	-6	9/16 - 18	-4	7/16 - 20	1.25	32	1.18	30
5P9808	-8	3/4 - 16	-8	3/4 - 16	1.45	37	1.38	35
0310919	-12	1 1/16 - 12	-12	1 1/16 - 12	1.94	49	1.75	44
8K6898	-16	1 5/16 - 12	-16	1 5/16 - 12	2.09	53	2.00	51
9X2512	-20	1 5/8 - 12	-20	1 5/8 - 12	2.25	57	1.75	44

JIC Adapters



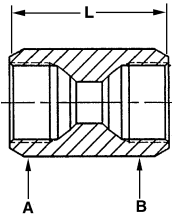
JIC 37° Male Union

PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
3J7355	-4	7/16 - 20	-4	7/16 - 20	1.38	35
0307984	-4	7/16 - 20	-6	9/16 - 18	1.34	34
0616740	-4	7/16 - 20	-8	3/4 - 16	1.57	40
0619185	-4	7/16 - 20	-10	7/8 - 14	1.65	42
7J6418	-5	1/2 - 20	-5	1/2 - 20	1.38	35
7K2521	-5	1/2 - 20	-8	3/4 - 16	1.57	40
7K4129	-6	9/16 - 18	-6	9/16 - 18	1.42	36
0616737	-6	9/16 - 18	-8	3/4 - 16	1.57	40
0533153	-6	9/16 - 18	-10	7/8 - 14	1.68	43
3R2704	-8	3/4 - 16	-8	3/4 - 16	1.65	42
7D5657	-8	3/4 - 16	-8	3/4 - 16	2.48	63
0307982	-8	3/4 - 16	-10	7/8 - 14	1.77	45
3R2705	-8	3/4 - 16	-12	11/16 - 12	1.97	50
0619787	-8	3/4 - 16	-16	15/16 - 12	2.01	51
0618248	-10	7/8 - 14	-10	7/8 - 14	1.89	48
0307983	-10	7/8 - 14	-12	11/16 - 12	2.05	52
9S7739	-12	11/16 - 12	-12	11/16 - 12	2.17	55
2P2206	-14	13/16 - 12	-14	13/16 - 12	2.20	56
9S7754	-16	15/16 - 12	-16	15/16 - 12	2.24	57
0616739	-16	15/16 - 12	-20	15/8 - 12	2.36	60
0684152	-20	15/8 - 12	-20	15/8 - 12	2.64	67
7X7904	-24	17/8 - 12	-24	17/8 - 12	2.75	70



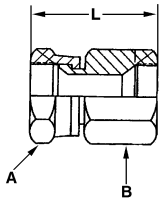
JIC 37° Male Union - 90° Elbow

PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
0676495	-4	7/16 - 20	-4	7/16 - 20	0.89	23
0618257	-6	9/16 - 18	-6	9/16 - 18	1.06	27
5P6399	-8	3/4 - 16	-8	3/4 - 16	1.25	32
5P4900	-10	7/8 - 14	-10	7/8 - 14	1.45	37
3R3976	-12	11/16 - 12	-12	11/16 - 12	1.65	42
6V8762	-14	13/16 - 12	-14	13/16 - 12	1.73	44
5P0912	-16	15/16 - 12	-16	15/16 - 12	1.81	46
5P2303	-20	15/8 - 12	-20	15/8 - 12	2.06	52



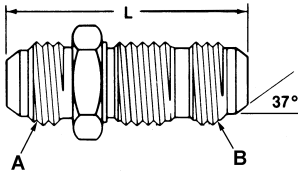
JIC 37° Female Union

PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
8C2927	-8	3/4 - 16	-8	3/4 - 16	1.50	38



JIC 37° Female Swivel Union

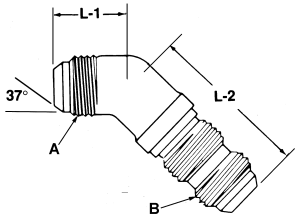
PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
8C4065	-16	1 ⁵ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	1.99	51
8T1486	-20	1 ⁵ / ₈ - 12	-20	1 ⁵ / ₈ - 12	1.96	50



Bulkhead JIC 37° Male Union

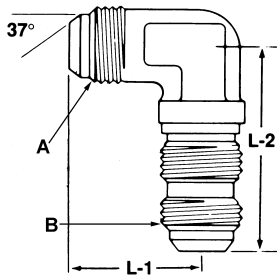
PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
2P1276	-4	7/16 - 20	-4	7/16 - 20	2.09	53
7J6419	-5	1/2 - 20	-5	1/2 - 20	2.09	53
2P1278	-6	9/16 - 18	-6	9/16 - 18	2.17	55
2P1281	-8	3/4 - 16	-8	3/4 - 16	2.44	62
0906372	-8	3/4 - 16	-8	3/4 - 16	3.94	100
2P1282	-10	7/8 - 14	-10	7/8 - 14	2.76	70
2P1283	-12	1 ¹ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	3.11	79
2P1284	-14	1 ³ / ₁₆ - 12	-14	1 ³ / ₁₆ - 12	3.11	79
2P1285	-16	1 ⁵ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	3.15	80

JIC Adapters



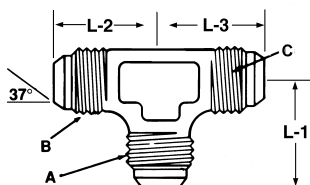
Bulkhead JIC 37° Male Union - 45° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	JIC	JIC	JIC	JIC	LENGTH	LENGTH	(in)	(mm)
	THREAD DASH SIZE	THREAD SIZE (in - TPI)	THREAD DASH SIZE	THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
7K6462	-4	7/16 - 20	-4	7/16 - 20	0.71	18	1.54	39
2P7212	-6	9/16 - 18	-6	9/16 - 18	0.83	21	1.65	42
2P1325	-8	3/4 - 16	-8	3/4 - 16	0.98	25	1.93	49
5P8113	-10	7/8 - 14	-10	7/8 - 14	1.10	28	2.17	55
5P4968	-12	1 1/16 - 12	-12	1 1/16 - 12	1.30	33	2.44	62



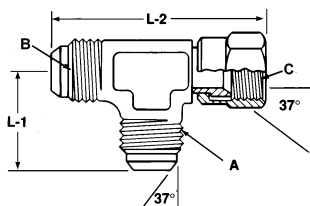
Bulkhead JIC 37° Male Union - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	JIC	JIC	JIC	JIC	LENGTH	LENGTH	(in)	(mm)
	THREAD DASH SIZE	THREAD SIZE (in - TPI)	THREAD DASH SIZE	THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
2P7216	-4	7/16 - 20	-4	7/16 - 20	0.98	25	1.93	49
5P2647	-5	1/2 - 20	-5	1/2 - 20	1.02	26	1.61	41
2P7215	-6	9/16 - 18	-6	9/16 - 18	1.10	28	1.81	46
2P2204	-8	3/4 - 16	-8	3/4 - 16	1.38	35	2.13	54
2P1326	-10	7/8 - 14	-10	7/8 - 14	1.57	40	2.40	61
5P3621	-12	1 1/16 - 12	-12	1 1/16 - 12	1.77	45	2.68	68
6V1548	-12	1 1/16 - 12	-16	1 5/16 - 12	1.78	45	3.74	95
5P1775	-16	1 5/16 - 12	-16	1 5/16 - 12	1.93	49	2.80	71
6V1547	-16	1 5/16 - 12	-20	1 5/8 - 12	1.93	49	4.13	105
8T0575	-20	1 5/8 - 12	-20	1 5/8 - 12	2.17	55	3.12	79



JIC 37° Male Union - Tee

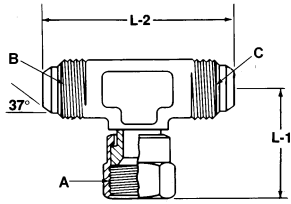
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	JIC	JIC	JIC	JIC	JIC	JIC	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
0055421	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.89	23	0.89	23	0.89	23
2P1291	-5	1/2 - 20	-5	1/2 - 20	-5	1/2 - 20	0.95	24	0.95	24	0.95	24
2P8447	-6	9/16 - 18	-4	7/16 - 20	-4	7/16 - 20	1.06	27	1.06	27	1.06	27
4S3652	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.06	27	1.06	27	1.06	27
4S3572	-6	9/16 - 18	-12	1 1/16 - 12	-12	1 1/16 - 12	1.33	34	1.66	42	1.66	42
0321270	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	1.25	32	1.25	32	1.25	32
0038581	-10	7/8 - 14	-10	7/8 - 14	-10	7/8 - 14	1.45	37	1.45	37	1.45	37
0059702	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	1.66	42	1.66	42	1.66	42
6S2899	-14	1 3/16 - 12	-14	1 3/16 - 12	-14	1 3/16 - 12	1.73	44	1.73	44	1.73	44
6K4235	-16	1 5/16 - 12	-16	1 5/16 - 12	-16	1 5/16 - 12	1.81	46	1.81	46	1.81	46
6K3448	-20	1 5/8 - 12	-20	1 5/8 - 12	-20	1 5/8 - 12	2.06	52	2.06	52	2.06	52



JIC 37° Male / JIC 37° Male / JIC 37° Female Swivel - Tee

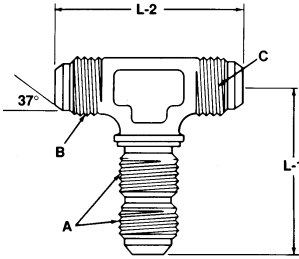
PART NUMBER	A	A	B	B	C	C	L1		L2	
	JIC	JIC	JIC	JIC	JIC	JIC	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)
0520572	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.91	23	1.89	48
5P4982	-5	1/2 - 20	-5	1/2 - 20	-5	1/2 - 20	0.94	24	2.01	51
0619258	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.06	27	2.32	59
6S5693	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	1.26	32	2.64	67
9S0176	-10	7/8 - 14	-10	7/8 - 14	-10	7/8 - 14	1.46	37	3.07	78
7D0978	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	1.65	42	3.43	87
5P4984	-14	1 3/16 - 12	-14	1 3/16 - 12	-14	1 3/16 - 12	1.73	44	3.50	89
5P2242	-16	1 5/16 - 12	-16	1 5/16 - 12	-16	1 5/16 - 12	1.81	46	3.82	97
5P4983	-20	1 5/8 - 12	-20	1 5/8 - 12	-20	1 5/8 - 12	2.05	52	4.37	111

JIC Adapters



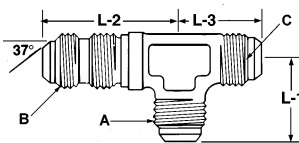
JIC 37° Female Swivel / JIC 37° Male / JIC 37° Male - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH	
	JIC DASH SIZE	JIC SIZE (in - TPI)	JIC DASH SIZE	JIC SIZE (in - TPI)	JIC DASH SIZE	JIC SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
2N8142	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.98	25	1.77	45
0530700	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.26	32	2.13	54
5P3166	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	1.38	35	2.52	64
0618284	-10	7/8 - 14	-10	7/8 - 14	-10	7/8 - 14	1.61	41	2.91	74
5P3165	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	1.73	44	3.31	84
5P0788	-14	1 3/16 - 12	-14	1 3/16 - 12	-14	1 3/16 - 12	1.77	45	3.46	88
5P4494	-16	1 5/16 - 12	-16	1 5/16 - 12	-16	1 5/16 - 12	2.01	51	3.62	92



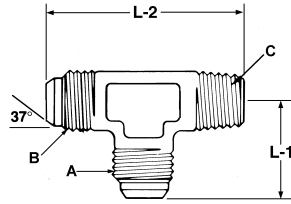
Bulkhead JIC 37° Male / JIC 37° Male / JIC 37° Male - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH	
	JIC DASH SIZE	JIC SIZE (in - TPI)	JIC DASH SIZE	JIC SIZE (in - TPI)	JIC DASH SIZE	JIC SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
0A3732	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	1.57	40	2.91	74
2P9376	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.81	46	2.20	56
0618408	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	2.13	54	2.72	69
0617738	-10	7/8 - 14	-10	7/8 - 14	-10	7/8 - 14	2.40	61	3.11	79
0618827	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	2.68	68	3.58	91



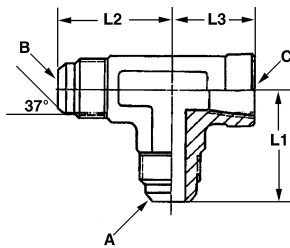
JIC 37° Male / Bulkhead JIC 37° Male / JIC 37° Male - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	JIC DASH SIZE	JIC SIZE (in - TPI)	JIC DASH SIZE	JIC SIZE (in - TPI)	JIC DASH SIZE	JIC SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T3300	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.97	25	1.59	40	0.89	23
6V5535	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.09	28	1.81	46	1.06	27
2P8130	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	1.26	32	2.09	53	2.13	54
5P7154	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	1.77	45	1.73	44	2.68	68
0532928	-16	1 5/16 - 12	-16	1 5/16 - 12	-16	1 5/16 - 12	2.80	71	1.94	49	1.94	49



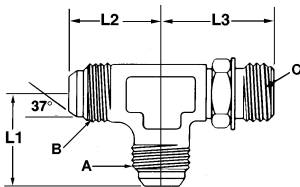
JIC 37° Male / JIC 37° Male / Male NPTF - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
9S7695	-4	7/16 - 20	-4	7/16 - 20	-2	1/8 - 27	0.91	23	1.65	42
6S2289	-6	9/16 - 18	-6	9/16 - 18	-4	1/4 - 18	1.06	27	2.17	55
9X2623	-6	9/16 - 18	-6	9/16 - 18	-6	3/8 - 18	1.14	29	1.22	31
5P4495	-8	3/4 - 16	-8	3/4 - 16	-6	3/8 - 18	1.26	32	2.48	63
0016842	-8	3/4 - 16	-8	3/4 - 16	-8	1/2 - 14	1.26	32	2.48	63
8T2864	-10	7/8 - 14	-10	7/8 - 14	-8	1/2 - 14	1.46	37	2.91	74
0060315	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	3/4 - 14	1.65	42	3.27	83
6K8748	-16	1 5/16 - 12	-16	1 5/16 - 12	-16	1 - 11 1/2	1.81	46	3.78	96



JIC 37° Male / JIC 37° Male / Female NPTF - Tee

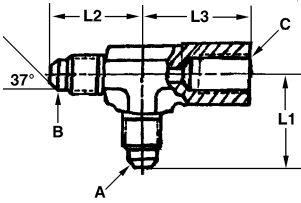
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6S2365	-6	9/16 - 18	-6	9/16 - 18	-4	1/4 - 18	1.23	31	1.23	31	0.88	22



JIC 37° Male / JIC 37° Male / STOR Boss - Tee

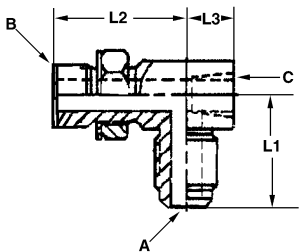
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
0307957	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.89	23	0.89	23	1.03	26
1049200	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.89	23	0.89	23	2.36	60
5P2191	-4	7/16 - 20	-8	3/4 - 16	-8	3/4 - 16	1.00	25	1.25	32	1.45	37
0316281	-5	1/2 - 20	-5	1/2 - 20	-5	1/2 - 20	0.95	24	0.95	24	1.09	28
2P8098	-6	9/16 - 18	-6	9/16 - 18	-4	7/16 - 20	1.06	27	1.06	27	1.18	30
6M6853	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.06	27	1.06	27	1.25	32
1158730	-8	3/4 - 16	-6	9/16 - 18	-8	3/4 - 16	1.25	32	1.15	29	1.45	37
0307959	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	1.25	32	1.25	32	1.45	37
0314136	-10	7/8 - 14	-10	7/8 - 14	-10	7/8 - 14	1.45	37	1.45	37	1.70	43
2P7211	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	1.66	42	1.66	42	1.94	49
1219267	-16	1 5/16 - 12	-12	1 1/16 - 12	-14	1 3/16 - 12	1.81	46	1.66	42	2.05	52
0307960	-16	1 5/16 - 12	-16	1 5/16 - 12	-16	1 5/16 - 12	1.81	46	1.81	46	2.05	52

JIC Adapters



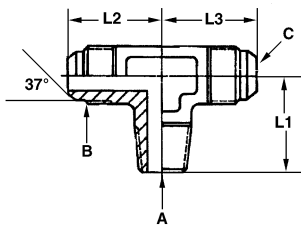
JIC 37° Male / JIC 37° Male / STOR Port - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	JIC	JIC	JIC	JIC	STOR	STOR	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
5P1272	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	1.05	27	1.05	27	1.22	31



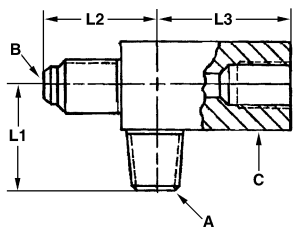
JIC 37° Male / STOR Boss / Female NPTF - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	JIC	JIC	STOR	STOR	NPTF	NPTF	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
5P4375	-6	9/16 - 18	-6	9/16 - 18	-2	1/8 - 27	1.06	27	1.25	32	0.44	11



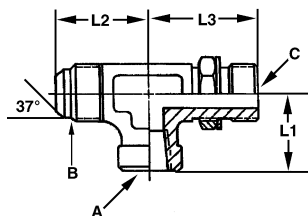
Male NPTF / JIC 37° Male / JIC 37° Male - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	NPTF	NPTF	JIC	JIC	JIC	JIC	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
8D0071	-2	1/8 - 27	-4	7/16 - 20	-4	7/16 - 20	0.79	20	0.89	23	0.89	23
7K4128	-4	1/4 - 18	-6	9/16 - 18	-6	9/16 - 18	1.10	28	1.06	27	1.06	27
8J1040	-6	3/8 - 18	-8	3/4 - 16	-8	3/4 - 16	1.22	31	1.25	32	1.25	32
0016300	-8	1/2 - 14	-8	3/4 - 16	-8	3/4 - 16	1.47	37	1.25	32	1.25	32
0618260	-8	1/2 - 14	-10	7/8 - 14	-10	7/8 - 14	1.46	37	1.45	37	1.45	37
0618261	-12	3/4 - 14	-12	1 1/16 - 12	-12	1 1/16 - 12	1.59	40	1.66	42	1.66	42
6K3449	-16	1 - 11 1/2	-16	1 5/16 - 12	-16	1 5/16 - 12	1.97	50	1.81	46	1.81	46



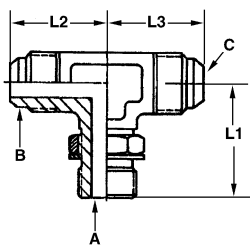
Male NPTF / JIC 37° Male / STOR Port - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	NPTF	NPTF	JIC	JIC	STOR	STOR	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH
	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	THREAD DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)
5P1271	-2	1/8 - 27	-4	7/16 - 20	-4	7/16 - 20	0.87	22	1.05	27	1.22	31



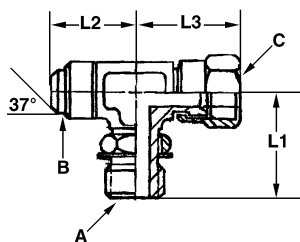
Female NPTF / JIC 37° Male / STOR Boss - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V3297	-4	1/4 - 18	-6	9/16 - 18	-6	9/16 - 18	0.88	22	1.23	31	1.25	32
6V9039	-8	1/2 - 14	-12	1 1/8 - 12	-12	1 1/8 - 12	1.26	32	1.66	42	1.94	49



STOR Boss / JIC 37° Male / JIC 37° Male - Tee

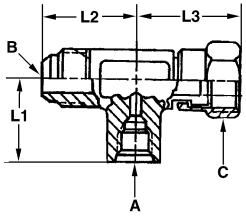
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
4S4857	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	1.02	26	0.89	23	0.89	23
0315894	-5	1/2 - 20	-5	1/2 - 20	-5	1/2 - 20	1.09	28	0.95	24	0.95	24
0059129	-6	9/16 - 18	-4	7/16 - 20	-4	7/16 - 20	1.26	32	0.89	23	0.89	23
0307955	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.26	32	1.06	27	1.06	27
0312582	-8	3/4 - 16	-6	9/16 - 18	-6	9/16 - 18	1.46	37	1.15	29	1.15	29
4S4869	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	1.46	37	1.46	37	2.52	64
2P1296	-10	7/8 - 14	-10	7/8 - 14	-10	7/8 - 14	1.69	43	1.45	37	1.45	37
2P1297	-12	1 1/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	1.93	49	1.66	42	1.66	42
8K3520	-16	1 5/16 - 12	-12	1 1/16 - 12	-12	1 1/16 - 12	2.05	52	1.76	45	1.76	45
0679921	-16	1 5/16 - 12	-16	1 5/16 - 12	-16	1 5/16 - 12	2.05	52	1.81	46	1.81	46
9X2511	-16	1 5/16 - 12	-20	1 5/8 - 12	-24	1 7/8 - 12	2.39	61	2.20	56	2.33	59
6V7485	-20	1 5/8 - 12	-20	1 5/8 - 12	-20	1 5/8 - 12	2.24	57	2.06	52	2.06	52



STOR Boss / JIC 37° Male / JIC 37° Female - Tee

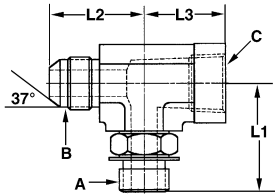
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1U5263	-8	3/4 - 16	-8	3/4 - 16	-8	3/4 - 16	1.45	37	1.25	32	1.38	35
1U5264	-8	3/4 - 16	-16	1 5/16 - 12	-16	1 5/16 - 12	1.80	46	1.81	46	2.00	51

JIC Adapters



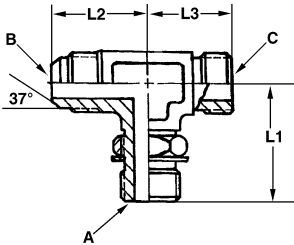
STOR Port / JIC 37° Male / JIC 37° Female - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1116690	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.71	18	1.06	27	1.06	27
8T0163	-6	9/16 - 18	-16	15/16 - 12	-16	15/16 - 12	1.10	28	1.81	46	2.00	51
8T0637	-6	9/16 - 18	-20	15/8 - 12	-20	15/8 - 12	1.10	28	2.06	52	2.31	59
5G2740	-8	3/4 - 16	-12	11/16 - 12	-12	11/16 - 12	1.46	37	1.66	42	1.75	44



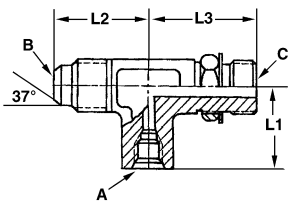
STOR Boss / JIC 37° Male / Female NPTF - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1208401	-8	3/4 - 16	-8	3/4 - 16	-8	1/2 - 14	1.62	41	1.42	36	1.23	31



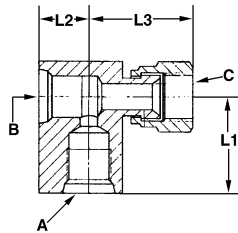
STOR Boss / JIC 37° Male / STOR Boss - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T2543	-5	1/2 - 20	-5	1/2 - 20	-5	1/2 - 20	1.09	28	0.95	24	0.77	20



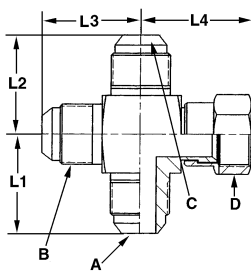
STOR Port / JIC 37° Male / STOR Boss - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V6967	-5	1/2 - 20	-6	9/16 - 18	-5	1/2 - 20	1.09	28	1.06	27	1.18	30
8C2948	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	0.90	23	1.22	31	1.41	36
5P0220	-12	11/16 - 12	-16	15/16 - 12	-16	15/16 - 12	1.50	38	1.81	46	2.05	52



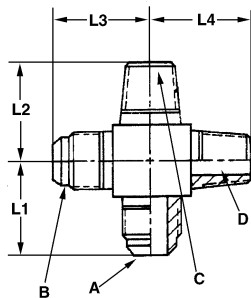
STOR Port / STOR Port / JIC 37° Female Swivel - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
5I4075	-4	7/16 - 20	-4	7/16 - 20	-4	7/16 - 20	0.69	17	0.59	15	1.17	30
5I4015	-4	7/16 - 20	-6	9/16 - 18	-6	9/16 - 18	0.79	20	0.59	15	1.22	31
5I3190	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.10	28	0.59	15	1.22	31



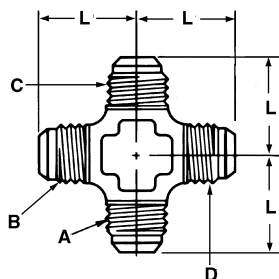
JIC 37° Male / JIC 37° Male / JIC 37° Male / JIC 37° Female Swivel - Cross

PART NUMBER	A-D	A-D	L1		L2		L3		L4	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
3E2344	-10	7/8 - 14	1.45	37	1.45	37	1.45	37	1.62	41



JIC 37° Male / JIC 37° Male / Male NPTF / Male NPTF - Cross

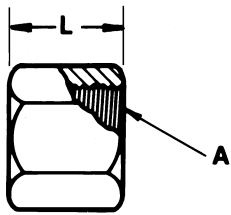
PART NUMBER	A-B	A-B	C-D	C-D	L1		L2		L3		L4	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
5P9431	-8	3/4 - 16	-6	3/8 - 18	1.25	32	1.22	31	1.25	32	1.22	31



JIC 37° Male Union - Cross

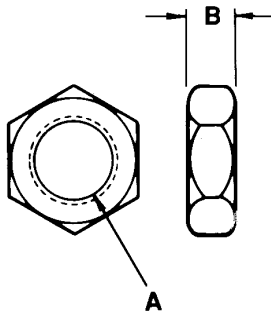
PART NUMBER	A-D	A-D	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
6S2231	-6	9/16 - 18	1.06	27
7J6742	-8	3/4 - 16	1.26	32
5P5613	-12	1 1/16 - 12	1.65	42
8C4066	-16	15/16 - 12	1.81	46
5P2210	-20	15/8 - 12	2.05	52

JIC Adapters



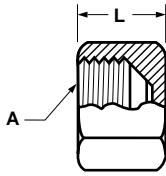
JIC 37° Swivel Nut

PART NUMBER	A		L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
8L3161	-4	7/16 - 20	0.63	16
0017014	-5	1/2 - 20	0.67	17
3R4437	-6	9/16 - 18	0.71	18
1P1441	-8	3/4 - 16	0.83	21
5H0275	-10	7/8 - 14	0.98	25
8M0744	-12	1 1/16 - 12	1.02	26
1P0043	-16	1 5/16 - 12	1.10	28
2P8148	-20	1 5/8 - 12	1.22	31



JIC 37° Bulkhead Nut

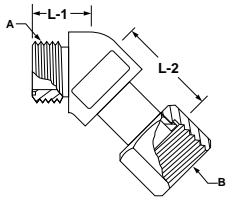
PART NUMBER	A		B	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
5B3254	-4	7/16 - 20	0.24	6
2P1280	-5	1/2 - 20	0.24	6
2P1279	-6	9/16 - 18	0.28	7
7F2050	-8	3/4 - 16	0.32	8
7F2060	-10	7/8 - 14	0.35	9
6K8420	-12	1 1/16 - 12	0.39	10
2P1293	-14	1 3/16 - 12	0.39	10
2P1286	-16	1 5/16 - 12	0.39	10
2V2043	-20	1 5/8 - 12	0.39	10



JIC 37° Cap

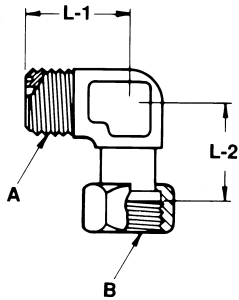
PART NUMBER	A	A	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
9L8493	-4	7/16 - 20	0.59	15
5P0405	-5	1/2 - 20	0.63	16
8S4950	-6	9/16 - 18	0.63	16
8S4951	-8	3/4 - 16	0.75	19
6J7366	-10	7/8 - 14	0.83	21
9S8896	-12	1 1/16 - 12	0.91	23
8L9137	-14	1 3/16 - 12	0.98	25
3R6789	-16	1 5/16 - 12	1.02	26
8T1458	-20	1 5/8 - 12	1.22	31

ORFS Adapters



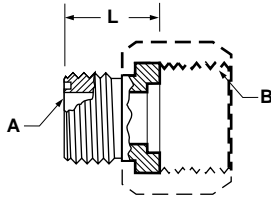
ORFS Male / ORFS Female Swivel - 45° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
8C8408	-4	9/16 - 18	-4	9/16 - 18	0.63	16	0.94	24
8C8988	-6	11/16 - 16	-6	11/16 - 16	0.75	19	1.06	27
8C8989	-8	13/16 - 16	-8	13/16 - 16	0.79	20	1.46	37
8C7563	-10	1 - 14	-10	1 - 14	0.91	23	1.54	39
8T8899	-12	13/16 - 12	-12	13/16 - 12	1.02	26	1.65	42



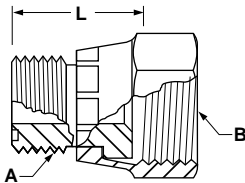
ORFS Male / ORFS Female Swivel - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V9849	-4	9/16 - 18	-4	9/16 - 18	0.87	22	1.02	26
6V9850	-6	11/16 - 16	-6	11/16 - 16	0.98	25	1.14	29
3E2333	-8	13/16 - 16	-6	11/16 - 16	1.10	28	1.49	38
6V9851	-8	13/16 - 16	-8	13/16 - 16	1.10	28	1.50	38
6V9852	-10	1 - 14	-10	1 - 14	1.30	33	1.61	41
8C8762	-12	13/16 - 12	-8	13/16 - 16	1.46	37	1.65	42
8T1718	-12	13/16 - 12	-10	1 - 14	1.46	37	1.77	45
6V9853	-12	13/16 - 12	-12	13/16 - 12	1.46	37	1.81	46
6V9854	-16	17/16 - 12	-16	17/16 - 12	1.65	42	2.09	53
6V9855	-20	111/16 - 12	-20	111/16 - 12	1.77	45	2.28	58
1023437	-24	2 - 12	-20	111/16 - 12	1.92	49	2.41	61



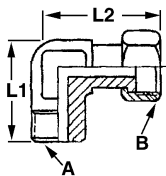
ORFS Male / ORFS Female Swivel - Loose Nut

PART NUMBER	A		B		L		NUT PART NUMBER
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	
6V8935	-4	9/16 - 18	-8	13/16 - 16	0.85	22	6V8554
6V8937	-4	9/16 - 18	-10	1 - 14	0.90	23	6V8555
6V8940	-4	9/16 - 18	-12	13/16 - 12	0.98	25	6V8556
6V8938	-6	11/16 - 16	-10	1 - 14	0.95	24	6V8555
6V8941	-6	11/16 - 16	-12	13/16 - 12	1.03	26	6V8556
6V8939	-8	13/16 - 16	-10	1 - 14	1.02	26	6V8555
6V8942	-8	13/16 - 16	-12	13/16 - 12	1.09	28	6V8556
6V8944	-8	13/16 - 16	-16	17/16 - 12	1.15	29	6V8557
6V8945	-10	1 - 14	-16	17/16 - 12	1.26	32	6V8557
6V8947	-12	13/16 - 12	-20	11/16 - 12	1.32	34	6V8558
8T7946	-16	17/16 - 12	-24	2 - 12	1.34	34	8T1681
8T8552	-20	11/16 - 12	-24	2 - 12	1.34	34	8T1681



ORFS Male / ORFS Female Swivel - Captive Nut

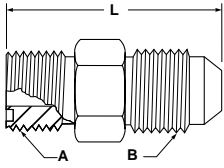
PART NUMBER	A		B		L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)
6V8934	-4	9/16 - 18	-6	11/16 - 16	0.79	20
6V8936	-6	11/16 - 16	-8	13/16 - 16	0.87	22
3E7403	-8	13/16 - 16	-6	11/16 - 16	1.62	41
6V8943	-10	1 - 14	-12	13/16 - 12	1.18	30
6V8946	-12	13/16 - 12	-16	17/16 - 12	1.30	33
6V8948	-16	17/16 - 12	-20	11/16 - 12	1.42	36



ORFS Male / ORFS Female Swivel - 90° Elbow (Trapezoidal)

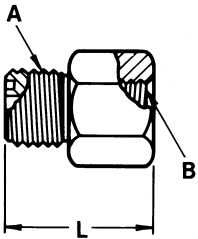
PART NUMBER	A		B		L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
1116522	-10	1 - 14	-10	1 - 14	1.31	33	1.62	41
717412	-12	13/16 - 12	-12	13/16 - 12	1.42	36	1.42	36
717413	-12	13/16 - 12	-12	13/16 - 12	1.42	36	1.65	42
1031328	-12	13/16 - 12	-12	13/16 - 12	1.77	45	1.42	36

ORFS Adapters



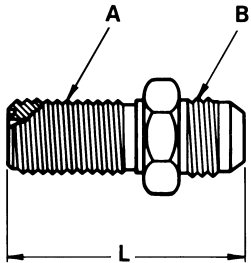
ORFS Male / JIC 37° Male

PART NUMBER	A		B		L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
1073877	-6	11/16 - 16	-6	9/16 - 18	1.34	34
1122565	-8	13/16 - 16	-8	3/4 - 16	1.34	34
8C7306	-8	13/16 - 16	-8	3/4 - 16	1.54	39
8C7307	-10	1 - 14	-10	7/8 - 14	1.81	46
8C7308	-12	13/16 - 12	-12	11/16 - 12	2.05	52



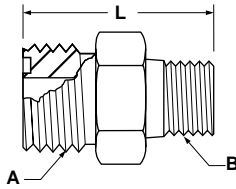
ORFS Male / JIC 37° Female

PART NUMBER	A		B		L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
8T6701	-4	9/16 - 18	-4	7/16 - 20	0.98	24



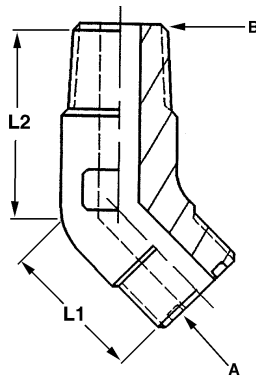
Bulkhead ORFS Male / JIC 37° Male

PART NUMBER	A		B		L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
8T0636	-4	9/16 - 18	-4	7/16 - 20	2.05	52
8T0403	-6	11/16 - 16	-6	9/16 - 18	2.20	56



ORFS Male / Male NPTF

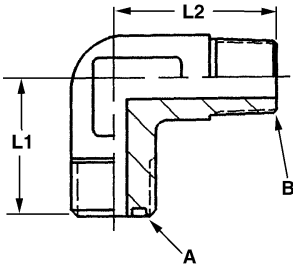
PART NUMBER	A	A	B	B	L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
8C6865	-4	9/16 - 18	-2	1/8 - 27	1.03	26
8C6866	-4	9/16 - 18	-4	1/4 - 18	1.24	32
8C6867	-4	9/16 - 18	-6	3/8 - 18	1.24	32
1010387	-6	11/16 - 16	-2	1/8 - 27	1.12	28
8C6868	-6	11/16 - 16	-4	1/4 - 18	1.30	33
8C6869	-6	11/16 - 16	-6	3/8 - 18	1.30	33
8C6870	-6	11/16 - 16	-8	1/2 - 14	1.55	39
8C6871	-8	13/16 - 16	-6	3/8 - 18	1.36	35
8C6872	-8	13/16 - 16	-8	1/2 - 14	1.61	41
8C6873	-10	1 - 14	-8	1/2 - 14	1.72	44
8C6874	-12	13/16 - 12	-12	3/4 - 14	1.81	46
8C6875	-16	17/16 - 12	-16	1 - 11 1/2	2.05	52



ORFS Male / Male NPTF - 45° Elbow

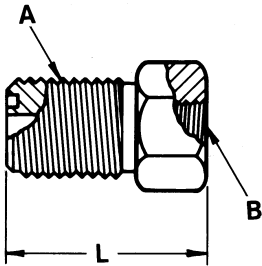
PART NUMBER	A	A	B	B	L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
8C3321	-6	11/16 - 16	-8	1/2 - 14	0.76	19	1.21	31
2T2171	-8	13/16 - 16	-6	3/8 - 18	0.80	20	0.97	25
3E7449	-8	13/16 - 16	-8	1/2 - 14	0.82	21	1.20	31
1173034	-20	1 11/16 - 12	-16	1 - 11 1/2	1.26	32	2.11	54

ORFS Adapters



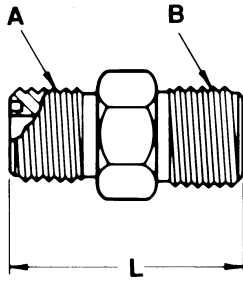
ORFS Male / Male NPTF - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
7X0492	-4	9/16 - 18	-2	1/8 - 27	0.85	22	0.80	20
7X5331	-4	9/16 - 18	-4	1/4 - 18	0.92	23	1.08	27
2T2305	-6	11/16 - 16	-4	1/4 - 18	0.98	25	1.15	29
2T2170	-6	11/16 - 16	-8	1/2 - 14	1.15	29	1.53	39
2T2396	-8	13/16 - 16	-6	3/8 - 18	1.10	28	1.25	32
2T1922	-8	13/16 - 16	-8	1/2 - 14	1.21	31	1.53	39
1228905	-8	13/16 - 16	-12	3/4 - 14	1.32	34	1.65	42
1173033	-10	1 - 14	-12	3/4 - 14	1.31	33	1.59	40
7X7902	-12	13/16 - 12	-8	1/2 - 14	1.47	37	1.65	42
9X2398	-12	13/16 - 12	-12	3/4 - 14	1.47	37	1.59	40



ORFS Male / Female NPTF

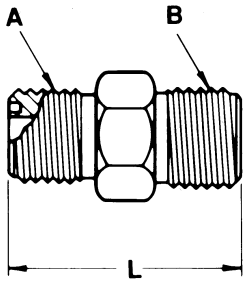
PART NUMBER	A	A	B	B	L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	(in)	(mm)
8T4128	-4	9/16 - 18	-2	1/8 - 27	0.67	17
8T6776	-4	9/16 - 18	-4	1/4 - 18	1.38	35
8C6915	-6	11/16 - 16	-2	1/8 - 27	1.89	48
7X7934	-6	11/16 - 16	-4	1/4 - 18	0.75	19



ORFS Male / STOR Boss

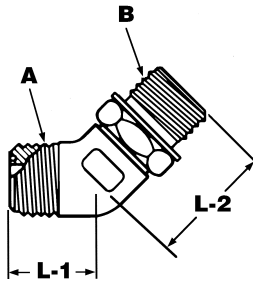
PART NUMBER	A	A	B	B	L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
6V8647	-4	9/16 - 18	-4	7/16 - 20	1.14	29
6V9010	-4	9/16 - 18	-4	7/16 - 20	2.80	71
8T6988	-4	9/16 - 18	-5	1/2 - 20	1.14	29
6V8641	-4	9/16 - 18	-6	9/16 - 18	1.18	30
1129783	-4	9/16 - 18	-8	3/4 - 16	1.32	34
6V9872	-6	11/16 - 16	-4	7/16 - 20	1.34	34
8T5043	-6	11/16 - 16	-5	1/2 - 20	1.22	31
6V8636	-6	11/16 - 16	-6	9/16 - 18	1.26	32
7E9898	-6	11/16 - 16	-6	9/16 - 18	1.56	40
8T1779	-6	11/16 - 16	-6	9/16 - 18	1.77	45
8T0075	-6	11/16 - 16	-6	9/16 - 18	1.97	50
9X2297	-6	11/16 - 16	-6	9/16 - 18	2.44	62
8T8887	-6	11/16 - 16	-6	9/16 - 18	3.28	83
6V8634	-6	11/16 - 16	-8	3/4 - 16	1.38	35
8T0076	-6	11/16 - 16	-8	3/4 - 16	2.13	54
0923635	-6	11/16 - 16	-8	3/4 - 16	2.62	67
6V8715	-6	11/16 - 16	-10	7/8 - 14	1.54	39
9X6550	-6	11/16 - 16	-10	7/8 - 14	2.16	55
6V9873	-8	13/16 - 16	-6	9/16 - 18	1.46	37
8T5050	-8	13/16 - 16	-6	9/16 - 18	2.60	66
6V8639	-8	13/16 - 16	-8	3/4 - 16	1.46	37
8T1687	-8	13/16 - 16	-8	3/4 - 16	2.05	52
8T0077	-8	13/16 - 16	-8	3/4 - 16	2.68	68
9X2304	-8	13/16 - 16	-8	3/4 - 16	4.49	114
6V8638	-8	13/16 - 16	-10	7/8 - 14	1.57	40
5I4370	-8	13/16 - 16	-10	7/8 - 14	2.01	51
1049054	-8	13/16 - 16	-10	7/8 - 14	2.83	72
6V8633	-8	13/16 - 16	-12	11/16 - 12	1.73	44
8T7968	-8	13/16 - 16	-12	11/16 - 12	2.39	61
4I7745	-8	13/16 - 16	-12	11/16 - 12	6.44	164
9X8408	-8	13/16 - 16	-16	15/16 - 12	1.79	46
8T0405	-10	1 - 14	-5	1/2 - 20	1.61	41
8C6758	-10	1 - 14	-6	9/16 - 18	1.65	42
6V8632	-10	1 - 14	-8	3/4 - 16	1.77	45
6V8642	-10	1 - 14	-10	7/8 - 14	1.69	43
6V8713	-10	1 - 14	-12	11/16 - 12	1.85	47
6V9874	-12	13/16 - 12	-8	3/4 - 16	1.93	49
6V8640	-12	13/16 - 12	-10	7/8 - 14	2.01	51
3E7420	-12	13/16 - 12	-10	7/8 - 14	3.92	100
9X6656	-12	13/16 - 12	-10	7/8 - 14	5.16	131

ORFS Adapters



ORFS Male / STOR Boss (cont.)

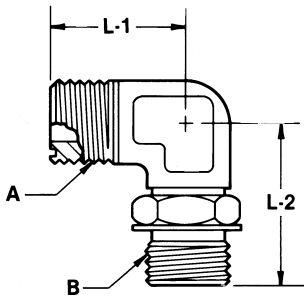
PART NUMBER	A		B		L	
	ORFS THREAD DASH SIZE	A ORFS THREAD SIZE (in - TPI)	B STOR THREAD DASH SIZE	B STOR THREAD SIZE (in - TPI)	(in)	(mm)
6V8637	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	1.93	49
8C8498	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	2.38	61
8T0078	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	2.87	73
6V9162	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	3.27	83
8C8889	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	3.62	92
8T9023	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	3.76	96
8C8417	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	3.88	99
2T2991	-12	1 ³ / ₁₆ - 12	-14	1 ³ / ₁₆ - 12	1.91	49
7E7264	-12	1 ³ / ₁₆ - 12	-14	1 ³ / ₁₆ - 12	5.26	134
6V8716	-12	1 ³ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	1.97	50
8T0197	-12	1 ³ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	3.31	84
8C3370	-16	1 ⁷ / ₁₆ - 12	-8	3/4 - 16	1.97	50
8T9386	-16	1 ⁷ / ₁₆ - 12	-10	7/8 - 14	2.04	52
8C4000	-16	1 ⁷ / ₁₆ - 12	-10	7/8 - 14	3.65	93
6V8714	-16	1 ⁷ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	2.13	54
8T9349	-16	1 ⁷ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	4.49	114
8T6453	-16	1 ⁷ / ₁₆ - 12	-14	1 ³ / ₁₆ - 12	1.98	50
8C8807	-16	1 ⁷ / ₁₆ - 12	-14	1 ³ / ₁₆ - 12	3.68	94
6V8635	-16	1 ⁷ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	1.97	50
8C5723	-16	1 ⁷ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	2.70	69
8T0198	-16	1 ⁷ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	3.31	84
8T8898	-16	1 ⁷ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	4.13	105
8C3443	-16	1 ⁷ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	4.67	119
6V9875	-16	1 ⁷ / ₁₆ - 12	-20	1 ⁵ / ₈ - 12	2.05	52
8C3323	-16	1 ⁷ / ₁₆ - 12	-24	1 ⁷ / ₈ - 12	2.13	54
1098314	-20	1 ¹¹ / ₁₆ - 12	-10	7/8 - 14	1.99	51
9X8260	-20	1 ¹¹ / ₁₆ - 12	-14	1 ³ / ₁₆ - 12	2.22	56
8T7927	-20	1 ¹¹ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	2.28	58
8T3611	-20	1 ¹¹ / ₁₆ - 12	-20	1 ⁵ / ₈ - 12	2.05	52
9X6015	-20	1 ¹¹ / ₁₆ - 12	-20	1 ⁵ / ₈ - 12	5.20	132
8T8985	-24	2 - 12	-20	1 ⁵ / ₈ - 12	2.13	54
8T7926	-24	2 - 12	-24	1 ⁷ / ₈ - 12	2.13	54



ORFS Male / STOR Boss - 45° Elbow

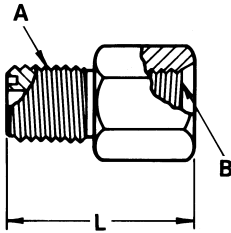
PART NUMBER	A		B		L1 LENGTH		L2 LENGTH	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V9000	-4	9/16 - 18	-4	7/16 - 20	0.63	16	1.18	30
8T0164	-4	9/16 - 18	-6	9/16 - 18	0.67	17	1.30	33
8T7546	-6	11/16 - 16	-4	7/16 - 20	0.75	19	1.22	31
8C3246	-6	11/16 - 16	-5	1/2 - 20	0.75	19	1.22	31
6V9001	-6	11/16 - 16	-6	9/16 - 18	0.75	19	1.30	33
6V9876	-6	11/16 - 16	-8	3/4 - 16	0.75	19	1.42	36
8T6754	-6	11/16 - 16	-12	1 1/16 - 12	0.79	20	1.97	50
9X2085	-8	13/16 - 16	-6	9/16 - 18	0.80	20	1.30	33
6V9002	-8	13/16 - 16	-8	3/4 - 16	0.79	20	1.42	36
6V8624	-8	13/16 - 16	-10	7/8 - 14	0.83	21	1.77	45
8T2530	-10	1 - 14	-8	3/4 - 16	0.91	23	1.57	40
6V9003	-10	1 - 14	-10	7/8 - 14	0.91	23	1.77	45
8T0120	-10	1 - 14	-12	1 1/16 - 12	0.98	25	1.97	50
8C6920	-12	13/16 - 12	-8	3/4 - 16	1.02	26	1.65	42
8T5389	-12	13/16 - 12	-10	7/8 - 14	1.02	26	1.81	46
6V9004	-12	13/16 - 12	-12	1 1/16 - 12	1.02	26	1.97	50
8T4149	-12	13/16 - 12	-16	15/16 - 12	1.14	29	2.05	52
8T7970	-16	17/16 - 12	-12	1 1/16 - 12	1.18	30	2.03	52
6V9005	-16	17/16 - 12	-16	15/16 - 12	1.18	30	2.05	52
6V9006	-20	1 11/16 - 12	-20	15/8 - 12	1.26	32	2.13	54

ORFS Adapters



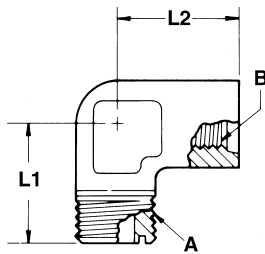
ORFS Male / STOR Boss - 90° Elbow

PART NUMBER	A		B		L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V8628	-4	9/16 - 18	-4	7/16 - 20	0.87	22	1.30	33
1007603	-4	9/16 - 18	-5	1/2 - 20	0.92	23	1.37	35
6V8627	-4	9/16 - 18	-6	9/16 - 18	0.94	24	1.46	37
6V9200	-6	11/16 - 16	-4	7/16 - 20	0.98	25	1.38	35
7X0901	-6	11/16 - 16	-5	1/2 - 20	0.98	25	1.37	35
6V8724	-6	11/16 - 16	-6	9/16 - 18	0.98	25	1.46	37
8T1905	-6	11/16 - 16	-6	9/16 - 18	0.98	25	2.83	72
6V8723	-6	11/16 - 16	-8	3/4 - 16	1.02	26	1.61	41
8T1683	-6	11/16 - 16	-8	3/4 - 16	1.02	26	2.60	66
9X2134	-6	11/16 - 16	-10	7/8 - 14	1.15	29	1.97	50
6V9343	-6	11/16 - 16	-12	1 1/16 - 12	1.30	33	2.17	55
8T6876	-8	13/16 - 16	-6	9/16 - 18	1.10	28	1.46	37
8T7521	-8	13/16 - 16	-6	9/16 - 18	1.10	28	2.58	66
6V8625	-8	13/16 - 16	-8	3/4 - 16	1.10	28	1.61	41
8T1686	-8	13/16 - 16	-8	3/4 - 16	1.10	28	2.60	66
6V8721	-8	13/16 - 16	-10	7/8 - 14	1.22	31	1.97	50
8T5429	-8	13/16 - 16	-12	1 1/16 - 12	1.34	34	2.17	55
6V8722	-10	1 - 14	-8	3/4 - 16	1.30	33	1.81	46
6V8626	-10	1 - 14	-10	7/8 - 14	1.30	33	1.97	50
8T0404	-10	1 - 14	-12	1 1/16 - 12	1.42	36	2.17	55
8C3324	-12	1 3/16 - 12	-6	9/16 - 18	1.47	37	2.01	51
6V9877	-12	1 3/16 - 12	-8	3/4 - 16	1.46	37	1.85	47
0874588	-12	1 3/16 - 12	-8	3/4 - 16	1.47	37	2.44	62
6V8629	-12	1 3/16 - 12	-10	7/8 - 14	1.46	37	2.05	52
6V9007	-12	1 3/16 - 12	-12	1 1/16 - 12	1.46	37	2.17	55
8C8400	-12	1 3/16 - 12	-12	1 1/16 - 12	1.47	37	3.97	101
6V9182	-12	1 3/16 - 12	-16	1 5/16 - 12	1.61	41	2.36	60
8T6684	-16	1 7/16 - 12	-12	1 1/16 - 12	1.65	42	2.32	59
8T8986	-16	1 7/16 - 12	-14	1 3/16 - 12	1.65	42	2.32	59
6V9008	-16	1 7/16 - 12	-16	1 5/16 - 12	1.65	42	2.36	60
8T8987	-16	1 7/16 - 12	-20	1 5/8 - 12	1.77	45	2.44	62
8C3417	-16	1 7/16 - 12	-24	1 7/8 - 12	1.93	49	2.60	66
8C3751	-20	1 11/16 - 12	-12	1 1/16 - 12	1.77	45	2.44	62
8C3364	-20	1 11/16 - 12	-16	1 5/16 - 12	1.89	48	2.44	62
6V9009	-20	1 11/16 - 12	-20	1 5/8 - 12	1.77	45	2.44	62
3E7433	-20	1 11/16 - 12	-24	1 7/8 - 12	1.76	45	2.59	66
8T1682	-24	2 - 12	-24	1 7/8 - 12	1.93	49	2.60	66



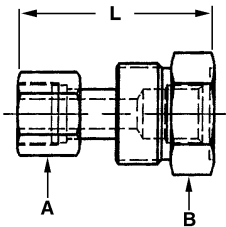
ORFS Male / STOR Port

PART NUMBER	A		B		L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
3E2337	-6	1 ¹ / ₁₆ - 16	-3	3/8 - 24	0.91	23
8T6663	-6	1 ¹ / ₁₆ - 16	-6	9/16 - 18	1.42	36
6I6851	-8	1 ³ / ₁₆ - 16	-6	9/16 - 18	1.41	36
9X6643	-12	1 ³ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	1.85	47
8T7813	-16	1 ⁷ / ₁₆ - 12	-16	1 ⁵ / ₁₆ - 12	1.87	48



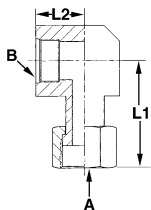
ORFS Male / STOR Port - 90° Elbow

PART NUMBER	A		B		L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
8T0131	-10	1 - 14	-8	3/4 - 16	1.30	33	1.30	33



ORFS Female Swivel / STOR Port

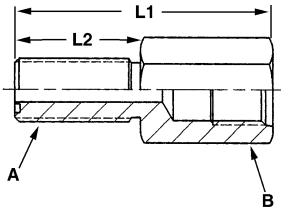
PART NUMBER	A		B		L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
3E7423	-8	1 ³ / ₁₆ - 16	-8	3/4 - 16	2.14	54



ORFS Female Swivel / STOR Port - 90° Elbow

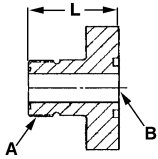
PART NUMBER	A		B		L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
9X2538	-12	1 ³ / ₁₆ - 12	-12	1 ¹ / ₁₆ - 12	2.10	53	1.21	31

ORFS Adapters



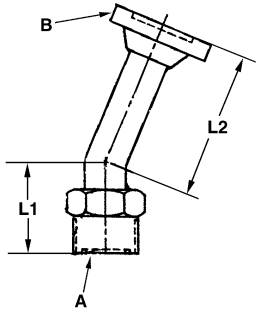
Bulkhead ORFS / STOR Port

PART NUMBER	A ORFS THREAD DASH SIZE	A ORFS THREAD SIZE (in - TPI)	B STOR THREAD DASH SIZE	B STOR THREAD SIZE (in - TPI)	L1 LENGTH		L2 LENGTH	
					(in)	(mm)	(in)	(mm)
8T9358	-6	11/16 - 16	-6	9/16 - 18	2.24	57	1.34	34
8C8835	-6	11/16 - 16	-8	3/4 - 16	2.56	65	1.34	34
3E7401	-6	11/16 - 16	-8	3/4 - 16	2.76	70	1.34	34
1083872	-12	13/16 - 12	-16	15/16 - 12	2.93	75	1.64	42
1076709	-16	17/16 - 12	-16	15/16 - 12	2.95	75	1.66	42



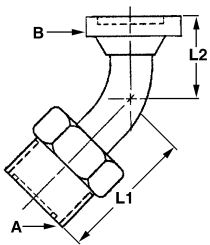
ORFS Male / SAE Code 61 Flange - 1 Piece

PART NUMBER	A ORFS THREAD DASH SIZE	A ORFS THREAD SIZE (in - TPI)	B HEAD SIZE (in)	B FLANGE DASH SIZE (mm)	L LENGTH	
					(in)	(mm)
7Y3729	-12	13/16 - 12	1.50	38	1.89	48
7Y3730	-16	17/16 - 12	1.50	38	1.89	48
7Y3731	-16	17/16 - 12	1.75	45	1.97	50



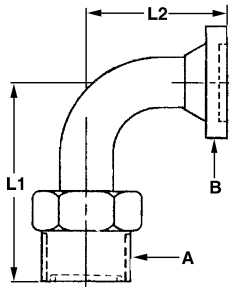
ORFS Male / SAE Code 62 Flange - 22 1/2° Elbow

PART NUMBER	A ORFS THREAD DASH SIZE	A ORFS THREAD SIZE (in - TPI)	B HEAD SIZE (in)	B FLANGE DASH SIZE (mm)	L1 LENGTH		L2 LENGTH	
					(in)	(mm)	(in)	(mm)
5E9234	-12	13/16 - 12	1.88	48	0.63	16	1.18	30
5E9235	-12	13/16 - 12	1.88	48	1.97	50	1.57	40



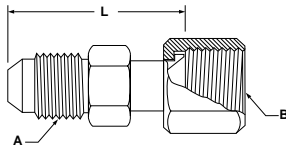
ORFS Male / SAE Code 62 Flange - 45° Elbow

PART NUMBER	A ORFS THREAD DASH SIZE	A ORFS THREAD SIZE (in - TPI)	B HEAD SIZE (in)	B FLANGE DASH SIZE (mm)	L1 LENGTH		L2 LENGTH	
					(in)	(mm)	(in)	(mm)
7X9737	-16	17/16 - 12	1.63	41	1.50	38	1.26	32



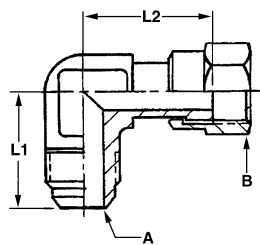
ORFS Male / SAE Code 62 Flange - 90° Elbow

PART NUMBER	A	A	B		L1		L2		
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	HEAD SIZE (in)	(mm)	FLANGE DASH SIZE	(in)	(mm)	(in)	(mm)
7X9733	-16	17/16 - 12	1.88	48	-16	3.27	83	2.24	57
7X9738	-16	17/16 - 12	1.88	48	-16	3.27	83	3.94	100



JIC 37° Male / ORFS Female Swivel

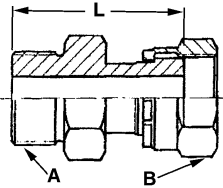
PART NUMBER	A	A	B	B	L	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)
8C7309	-4	7/16 - 20	-4	9/16 - 18	1.65	42
8C7310	-6	9/16 - 18	-6	11/16 - 16	1.73	44
8C7311	-8	3/4 - 16	-8	13/16 - 16	2.01	51
8C7312	-10	7/8 - 14	-10	1 - 14	2.20	56
8C7313	-12	1 1/16 - 12	-12	1 3/16 - 12	2.56	65
8C7334	-16	1 5/16 - 12	-16	1 7/16 - 12	2.76	70
8C7335	-20	1 5/8 - 12	-20	1 11/16 - 12	2.80	71



JIC 37° Male / ORFS Female Swivel - 90° Elbow

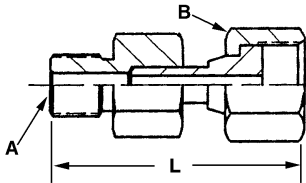
PART NUMBER	A	A	B	B	L1		L2	
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
5I8883	-6	9/16 - 18	-6	1 1/16 - 16	1.06	27	1.15	29

ORFS Adapters



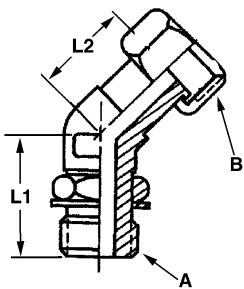
STOR Boss / ORFS Female

PART NUMBER	A	A	B	B	L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)
4I6287	-6	9/16 - 18	-6	11/16 - 16	1.53	39
1087251	-8	3/4 - 16	-10	1 - 14	2.21	56
7I1036	-8	3/4 - 16	-12	13/16 - 12	2.21	56
7I8310	-12	11/16 - 12	-12	13/16 - 12	2.26	58
7R0042	-12	11/16 - 12	-12	13/16 - 12	3.00	76
4I6140	-16	15/16 - 12	-12	13/16 - 12	2.39	61
4I6141	-16	15/16 - 12	-16	17/16 - 12	2.54	65



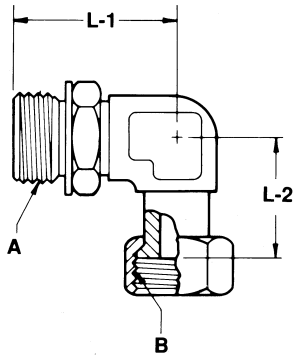
STOR Boss / ORFS Female Swivel

PART NUMBER	A	A	B	B	L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)
7X3162	-4	7/16 - 20	-4	9/16 - 18	1.46	37
7X3163	-6	9/16 - 18	-6	11/16 - 16	1.58	40
9X2847	-6	9/16 - 18	-8	13/16 - 16	1.87	47
7X3164	-8	3/4 - 16	-8	13/16 - 16	1.94	49
7X3165	-10	7/8 - 14	-10	1 - 14	2.12	54
7X3166	-12	11/16 - 12	-12	13/16 - 12	2.35	60
7R0042	-12	11/16 - 12	-12	13/16 - 12	3.00	76



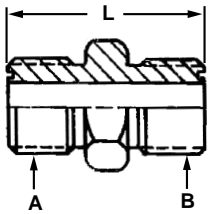
STOR Boss / ORFS Female Swivel - 45° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
8T2335	-6	9/16 - 18	-6	11/16 - 16	1.14	29	1.30	33
8T0252	-8	3/4 - 16	-8	13/16 - 16	1.50	38	1.46	37



STOR Boss / ORFS Female Swivel - 90° Elbow

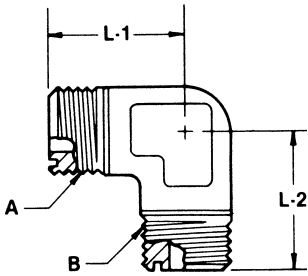
PART NUMBER	A	A	B	B	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
8T0788	-6	9/16 - 18	-6	11/16 - 16	1.46	37	1.14	29
9X2091	-8	3/4 - 16	-6	11/16 - 16	1.60	41	1.43	36
8T0249	-8	3/4 - 16	-8	13/16 - 16	1.61	41	1.50	38
8T6451	-12	11/16 - 12	-12	13/16 - 12	2.17	55	1.81	46
5I3183	-16	15/16 - 12	-16	17/16 - 12	2.35	60	2.10	53



ORFS Male Union

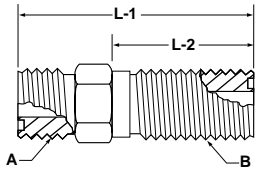
PART NUMBER	A	A	B	B	L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)
6V8729	-4	9/16 - 18	-4	9/16 - 18	1.10	28
6V8736	-4	9/16 - 18	-6	11/16 - 16	1.18	30
6V8730	-6	11/16 - 16	-6	11/16 - 16	1.22	31
6V8737	-6	11/16 - 16	-8	13/16 - 16	1.34	34
6V8731	-8	13/16 - 16	-8	13/16 - 16	1.38	35
6V8738	-8	13/16 - 16	-10	1 - 14	1.57	40
8T5082	-8	13/16 - 16	-12	13/16 - 12	1.69	43
6V8732	-10	1 - 14	-10	1 - 14	1.69	43
6V8739	-10	1 - 14	-12	13/16 - 12	1.81	46
6V8733	-12	13/16 - 12	-12	13/16 - 12	1.85	47
6V8740	-12	13/16 - 12	-16	17/16 - 12	1.93	49
6V8734	-16	17/16 - 12	-16	17/16 - 12	1.93	49

ORFS Adapters



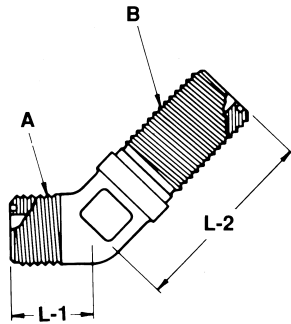
ORFS Male Union - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V9806	-4	9/16 - 18	-4	9/16 - 18	0.87	22	0.87	22
6V9807	-6	11/16 - 16	-6	11/16 - 16	0.98	25	0.98	25
6V9808	-8	13/16 - 16	-8	13/16 - 16	1.10	28	1.10	28
6V9809	-10	1 - 14	-10	1 - 14	1.30	33	1.30	33
6V9810	-12	13/16 - 12	-12	13/16 - 12	1.46	37	1.46	37
8T6777	-16	17/16 - 12	-12	13/16 - 12	1.61	41	1.65	42
6V9649	-16	17/16 - 12	-16	17/16 - 12	1.65	42	1.65	42



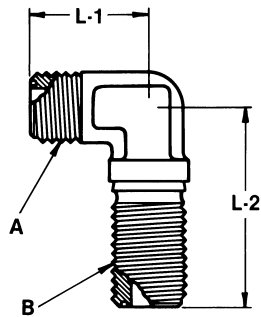
Bulkhead ORFS Male Union

PART NUMBER	A	A	B	B	L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V8993	-4	9/16 - 18	-4	9/16 - 18	1.89	48	1.26	32
6V8994	-6	11/16 - 16	-6	11/16 - 16	2.09	53	1.34	34
8T6445	-6	11/16 - 16	-8	13/16 - 16	2.04	52	1.24	32
8T0129	-6	11/16 - 16	-8	13/16 - 16	2.24	57	1.42	36
6V8995	-8	13/16 - 16	-8	13/16 - 16	2.28	58	1.42	36
6V9353	-10	1 - 14	-8	13/16 - 16	2.44	62	1.42	36
6V8996	-10	1 - 14	-10	1 - 14	2.64	67	1.61	41
6V8997	-12	13/16 - 12	-12	13/16 - 12	2.72	69	1.65	42
8C8493	-16	17/16 - 12	-12	13/16 - 12	2.74	70	1.64	42
6V8998	-16	17/16 - 12	-16	17/16 - 12	2.76	70	1.65	42
7X2464	-16	17/16 - 12	-16	17/16 - 12	4.65	118	3.54	90
9X2317	-20	111/16 - 12	-16	17/16 - 12	2.76	70	1.66	42



Bulkhead ORFS Male Union - 45° Elbow

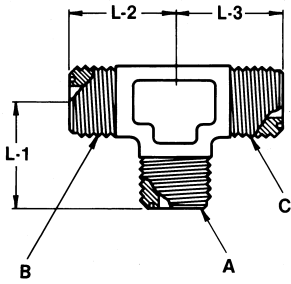
PART NUMBER	A		B		L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V8986	-4	9/16 - 18	-4	9/16 - 18	0.63	16	1.73	44
6V8987	-6	11/16 - 16	-6	11/16 - 16	0.75	19	1.93	49
6V9351	-6	11/16 - 16	-8	13/16 - 16	0.75	19	2.01	51
6V8988	-8	13/16 - 16	-8	13/16 - 16	0.79	20	2.01	51
8C3251	-10	1 - 14	-8	13/16 - 16	0.91	23	2.13	54
6V8989	-10	1 - 14	-10	1 - 14	0.91	23	2.24	57
6V8990	-12	13/16 - 12	-12	13/16 - 12	1.02	26	2.40	61
1240195	-16	17/16 - 12	-12	13/16 - 12	1.18	30	2.56	65
6V8991	-16	17/16 - 12	-16	17/16 - 12	1.18	30	2.56	65



Bulkhead ORFS Male Union - 90° Elbow

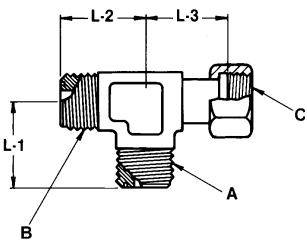
PART NUMBER	A		B		L1		L2	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V8979	-4	9/16 - 18	-4	9/16 - 18	0.87	22	1.85	47
6V8980	-6	11/16 - 16	-6	11/16 - 16	1.02	26	2.05	52
8T5465	-6	11/16 - 16	-8	13/16 - 16	1.08	28	2.19	56
8T0130	-8	13/16 - 16	-6	11/16 - 16	1.14	29	2.09	53
6V8981	-8	13/16 - 16	-8	13/16 - 16	1.14	29	2.20	56
6V9796	-8	13/16 - 16	-10	1 - 14	1.26	32	2.48	63
8T1810	-10	1 - 14	-8	13/16 - 16	1.34	34	2.32	59
6V8982	-10	1 - 14	-10	1 - 14	1.34	34	2.48	63
6V8983	-12	13/16 - 12	-12	13/16 - 12	1.54	39	2.64	67
6V8984	-16	17/16 - 12	-16	17/16 - 12	1.65	42	2.80	71
3E7426	-20	111/16 - 12	-16	17/16 - 12	1.79	45	2.97	76
6V8985	-20	111/16 - 12	-20	111/16 - 12	1.81	46	2.99	76

ORFS Adapters



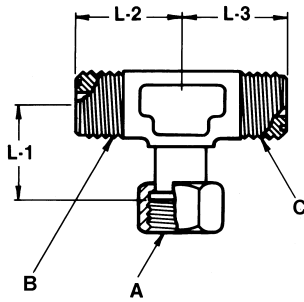
ORFS Male Union - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V8787	-4	9/16 - 18	-4	9/16 - 18	-4	9/16 - 18	0.87	22	0.87	22	0.87	22
8T8983	-6	11/16 - 16	-4	9/16 - 18	-4	9/16 - 18	0.98	25	0.93	24	0.93	24
6V8788	-6	11/16 - 16	-6	11/16 - 16	-6	11/16 - 16	0.98	25	0.98	25	0.98	25
8T2363	-8	13/16 - 16	-8	13/16 - 16	-6	11/16 - 16	1.10	28	1.10	28	1.06	27
8T3444	-8	13/16 - 16	-6	11/16 - 16	-6	11/16 - 16	1.10	28	1.02	26	1.02	26
6V8789	-8	13/16 - 16	-8	13/16 - 16	-8	13/16 - 16	1.10	28	1.10	28	1.10	28
6V9272	-8	13/16 - 16	-10	1 - 14	-8	13/16 - 16	1.22	31	1.30	33	1.22	31
6V9031	-8	13/16 - 16	-10	1 - 14	-10	1 - 14	1.22	31	1.30	33	1.30	33
8T0248	-8	13/16 - 16	-12	13/16 - 12	-8	13/16 - 16	1.34	34	1.46	37	1.34	34
6V9158	-10	1 - 14	-8	13/16 - 16	-8	13/16 - 16	1.30	33	1.22	31	1.22	31
6V9043	-10	1 - 14	-8	13/16 - 16	-10	1 - 14	1.30	33	1.22	31	1.30	33
6V8790	-10	1 - 14	-10	1 - 14	-10	1 - 14	1.30	33	1.30	33	1.30	33
8T6755	-10	1 - 14	-12	13/16 - 12	-16	17/16 - 12	1.57	40	1.61	41	1.65	42
7X7703	-12	13/16 - 12	-10	1 - 14	-10	1 - 14	1.47	37	1.41	36	1.41	36
6V8791	-12	13/16 - 12	-12	13/16 - 12	-12	13/16 - 12	1.46	37	1.46	37	1.46	37
8T1012	-12	13/16 - 16	-16	17/16 - 12	-12	13/16 - 12	1.65	42	1.61	41	1.61	41
6V8792	-16	17/16 - 12	-16	17/16 - 12	-16	17/16 - 12	1.65	42	1.65	42	1.65	42
8T5907	-16	17/16 - 12	-20	111/16 - 12	-20	111/16 - 12	1.77	45	1.77	45	1.77	45
8I1022	-20	111/16 - 12	-20	111/16 - 12	-20	111/16 - 12	1.76	45	1.76	45	1.76	45



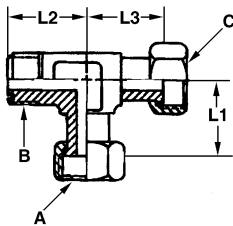
ORFS Male / ORFS Male / ORFS Female Swivel - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V9835	-4	9/16 - 18	-4	9/16 - 18	-4	9/16 - 18	0.87	22	0.87	22	1.02	26
6V9836	-6	11/16 - 16	-6	11/16 - 16	-6	11/16 - 16	0.98	25	0.98	25	1.14	29
1010052	-8	13/16 - 16	-8	13/16 - 16	-6	11/16 - 16	1.10	28	1.10	28	1.15	29
6V9837	-8	13/16 - 16	-8	13/16 - 16	-8	13/16 - 16	1.10	28	1.10	28	1.50	38
6V9838	-10	1 - 14	-10	1 - 14	-10	1 - 14	1.30	33	1.30	33	1.61	41
6V9839	-12	13/16 - 12	-12	13/16 - 12	-12	13/16 - 12	1.46	37	1.46	37	1.81	46
9X2235	-16	17/16 - 12	-12	13/16 - 12	-12	13/16 - 12	1.64	42	1.62	41	2.03	52
6V9840	-16	17/16 - 12	-16	17/16 - 12	-16	17/16 - 12	1.65	42	1.65	42	2.09	53
7X2429	-20	111/16 - 12	-20	111/16 - 12	-20	111/16 - 12	1.76	45	1.76	45	2.29	58



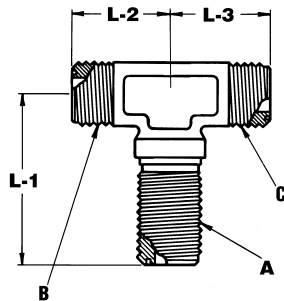
ORFS Female Swivel / ORFS Male / ORFS Male - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V9842	-4	9/16 - 18	-4	9/16 - 18	-4	9/16 - 18	1.02	26	0.87	22	0.87	22
6V9843	-6	11/16 - 16	-6	11/16 - 16	-6	11/16 - 16	1.14	29	0.98	25	0.98	25
6V9844	-8	13/16 - 16	-8	13/16 - 16	-8	13/16 - 16	1.50	38	1.10	28	1.10	28
6V9845	-10	1 - 14	-10	1 - 14	-10	1 - 14	1.61	41	1.30	33	1.30	33
6V9846	-12	13/16 - 12	-12	13/16 - 12	-12	13/16 - 12	1.81	46	1.46	37	1.46	37
3E7407	-12	13/16 - 12	-16	17/16 - 12	-16	17/16 - 12	2.03	52	1.64	42	1.64	42
6V9847	-16	17/16 - 12	-16	17/16 - 12	-16	17/16 - 12	2.09	53	1.65	42	1.65	42



ORFS Female Swivel / ORFS Male / ORFS Female Swivel - Tee

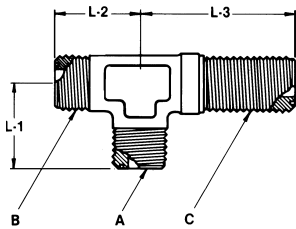
PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T6454	-20	111/16 - 12	-16	17/16 - 12	-16	17/16 - 12	2.26	57	1.76	45	2.26	57



Bulkhead ORFS Male / ORFS Male / ORFS Male - Tee

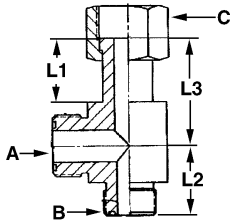
PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T0379	-6	11/16 - 16	-6	11/16 - 16	-6	11/16 - 16	2.05	52	1.02	26	1.02	26

ORFS Adapters



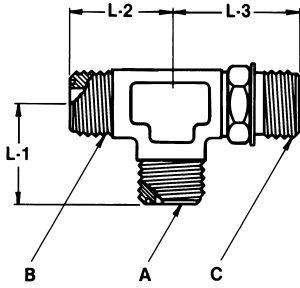
ORFS Male / ORFS Male / ORFS Male Bulkhead - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8C6444	-4	9/16 - 18	-4	9/16 - 18	-4	9/16 - 18	0.89	23	0.89	23	1.85	47
7X0820	-6	11/16 - 16	-6	11/16 - 16	-6	11/16 - 16	1.02	26	1.02	26	2.05	52
8T6895	-8	13/16 - 16	-8	13/16 - 16	-8	13/16 - 16	1.14	29	1.14	29	2.20	56
6V9489	-8	13/16 - 16	-12	13/16 - 12	-8	13/16 - 16	1.42	36	1.50	38	2.44	62
6V9352	-10	1 - 14	-10	1 - 14	-8	13/16 - 16	1.34	34	1.34	34	2.32	59
6V9350	-10	1 - 14	-10	1 - 14	-10	1 - 14	1.34	34	1.34	34	2.48	63
8T1809	-10	1 - 14	-12	13/16 - 12	-8	13/16 - 16	1.50	38	1.50	38	2.44	62
1104628	-12	13/16 - 12	-8	13/16 - 16	-8	13/16 - 16	2.36	60	1.37	35	2.44	62
6V9160	-12	13/16 - 12	-12	13/16 - 12	-12	13/16 - 12	1.54	39	1.54	39	2.64	67
3E7443	-16	17/16 - 12	-12	13/16 - 12	-12	13/16 - 12	1.67	43	1.65	42	2.80	71



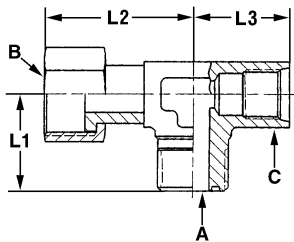
ORFS Male / ORFS Male / ORFS Female Swivel - Tee (Trapezoidal)

PART NUMBER	A		B		C		L1		L2		L3	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1216268	-12	13/16 - 12	-10	1 - 14	-12	13/16 - 12	1.46	37	1.34	34	1.82	46



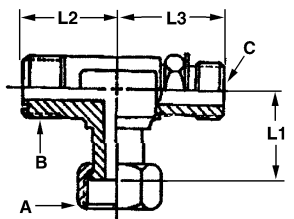
ORFS Male / ORFS Male / STOR Boss - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V8780	-4	9/16 - 18	-4	9/16 - 18	-4	7/16 - 20	0.87	22	0.87	22	1.30	33
6V9161	-6	11/16 - 16	-6	11/16 - 16	-4	7/16 - 20	0.98	25	0.98	25	1.38	35
6V8781	-6	11/16 - 16	-6	11/16 - 16	-6	9/16 - 18	0.98	25	0.98	25	1.46	37
6V8782	-8	13/16 - 16	-8	13/16 - 16	-8	3/4 - 16	1.10	28	1.10	28	1.61	41
4I7651	-8	13/16 - 16	-12	13/16 - 12	-8	3/4 - 16	1.26	32	1.47	37	1.60	41
6V8783	-10	1 - 14	-10	1 - 14	-10	7/8 - 14	1.30	33	1.30	33	1.97	50
8T1684	-10	1 - 14	-10	1 - 14	-16	15/16 - 12	1.57	40	1.57	40	2.36	60
6V9175	-10	1 - 14	-12	13/16 - 12	-12	11/16 - 12	1.42	36	1.42	36	2.17	55
8T2883	-12	13/16 - 12	-6	11/16 - 16	-12	11/16 - 12	1.46	37	1.46	37	2.17	55
6V9032	-12	13/16 - 12	-10	1 - 14	-10	7/8 - 14	1.46	37	1.46	37	2.05	52
1229088	-12	13/16 - 12	-12	13/16 - 12	-10	7/8 - 14	1.00	37	1.00	37	2.01	51
6V8784	-12	13/16 - 12	-12	13/16 - 12	-12	11/16 - 12	1.46	37	1.46	37	2.17	55
8T1685	-12	13/16 - 12	-12	13/16 - 12	-16	15/16 - 12	1.61	41	1.61	41	2.36	60
8T7520	-12	13/16 - 12	-16	17/16 - 12	-12	11/16 - 12	1.62	41	1.64	42	2.32	59
8T6356	-12	13/16 - 12	-16	17/16 - 12	-16	15/16 - 12	1.61	41	1.61	41	2.36	60
6V8785	-16	17/16 - 12	-16	17/16 - 12	-16	15/16 - 12	1.65	42	1.65	42	2.36	60
6V8786	-20	111/16 - 12	-20	111/16 - 12	-20	15/8 - 12	1.76	45	1.76	45	2.45	62



ORFS Male / ORFS Female Swivel / STOR Port - Tee

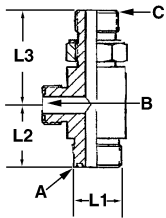
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1070496	-16	17/16 - 12	-16	17/16 - 12	-8	3/4 - 16	1.64	42	2.10	53	1.64	42



ORFS Female Swivel / ORFS Male / STOR Boss - Tee

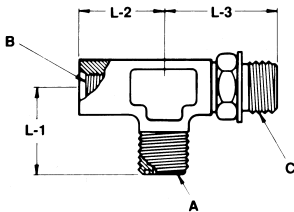
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T2556	-6	11/16 - 16	-6	11/16 - 16	-6	9/16 - 18	1.15	29	0.98	25	1.45	37

ORFS Adapters



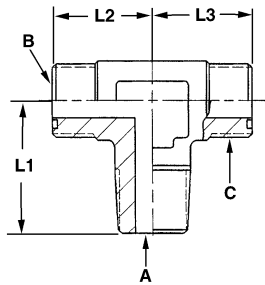
ORFS Male / ORFS Male / Stor Boss - Tee (Trapezoidal)

PART NUMBER	A		B		C		L1		L2		L3	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1048969	-8	13/16 - 16	-10	1 - 14	-10	7/8 - 14	1.10	28	1.30	33	1.97	50
1087453	-12	13/16 - 12	-10	1 - 14	-12	11/16 - 12	1.46	37	1.34	34	2.17	55



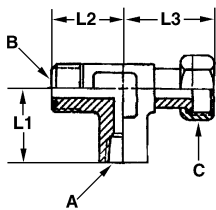
ORFS Male / Stor Port / Stor Boss - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T3313	-4	9/16 - 18	-6	9/16 - 20	-4	7/16 - 20	1.02	26	0.87	22	1.30	33
8C3309	-4	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	0.94	24	0.87	22	1.46	37
8C3115	-6	11/16 - 16	-4	7/16 - 20	-4	7/16 - 20	0.98	25	0.91	23	1.38	35
9X2492	-8	13/16 - 16	-6	9/16 - 18	-8	3/4 - 16	1.10	28	1.10	28	1.60	41
8T8901	-12	13/16 - 12	-12	11/16 - 12	-12	11/16 - 12	1.73	44	1.46	37	2.44	62



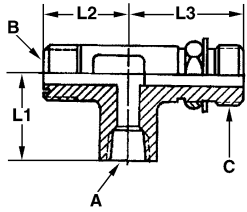
Male NPTF / ORFS Male / ORFS Male - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
3E2343	-8	1/2 - 14	-8	13/16 - 16	-8	13/16 - 16	1.47	37	1.10	28	1.10	28



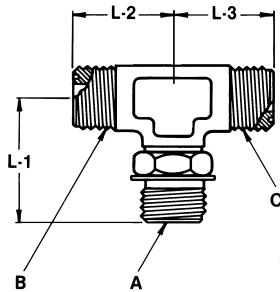
Female NPTF / ORFS Male / ORFS Female Swivel - Tee

PART NUMBER	A		B		C		L1		L2		L3	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T2352	-4	1/4 - 18	-6	11/16 - 16	-6	11/16 - 16	0.98	25	0.98	25	1.15	29



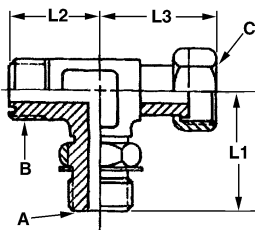
Female NPTF / ORFS Male / STOR Boss - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD DASH SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8C3322	-2	1/8 - 27	-8	13/16 - 16	-6	9/16 - 18	1.10	28	1.10	28	1.44	37



STOR Boss / ORFS Male / ORFS Male - Tee

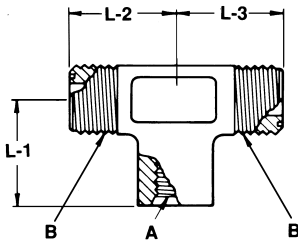
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD DASH SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6V8773	-4	7/16 - 20	-4	9/16 - 18	-4	9/16 - 18	1.30	33	0.87	22	0.87	22
8T0786	-4	7/16 - 20	-4	9/16 - 18	-4	9/16 - 18	1.42	36	0.98	25	0.87	22
7X0838	-4	7/16 - 20	-6	11/16 - 16	-6	11/16 - 16	1.29	33	0.98	25	0.98	25
6V8774	-6	9/16 - 18	-6	11/16 - 16	-6	11/16 - 16	1.46	37	0.98	25	0.98	25
0815604	-8	3/4 - 16	-6	11/16 - 16	-6	11/16 - 16	1.61	41	0.98	25	0.98	25
8T6696	-8	3/4 - 16	-6	11/16 - 16	-8	13/16 - 16	1.61	41	1.02	26	1.10	28
6V8775	-8	3/4 - 16	-8	13/16 - 16	-8	13/16 - 16	1.61	41	1.10	28	1.10	28
6V8776	-10	7/8 - 14	-10	1 - 14	-10	1 - 14	1.97	50	1.30	33	1.30	33
8T8984	-10	7/8 - 14	-12	13/16 - 12	-12	13/16 - 12	2.01	51	1.46	37	1.46	37
6V8777	-12	11/16 - 12	-12	13/16 - 12	-12	13/16 - 12	2.17	55	1.46	37	1.46	37
1087005	-12	11/16 - 12	-12	13/16 - 12	-16	17/16 - 12	2.32	59	1.47	37	1.64	42
6V8778	-16	15/16 - 12	-16	17/16 - 12	-16	17/16 - 12	2.36	60	1.65	42	1.65	42
8T1120	-20	15/8 - 12	-16	17/16 - 12	-12	13/16 - 12	2.44	62	1.77	45	1.77	45



STOR Boss / ORFS Male / ORFS Female Swivel - Tee

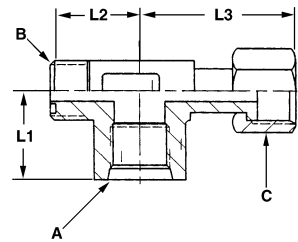
PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD DASH SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8C6798	-16	15/16 - 12	-16	17/16 - 12	-16	17/16 - 12	2.35	60	2.00	42	2.10	53

ORFS Adapters



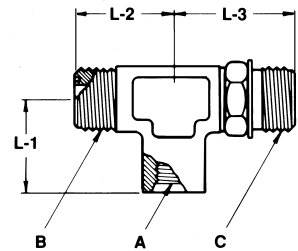
STOR Port / ORFS Male / ORFS Male - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T0082	-6	9/16 - 18	-8	13/16 - 16	-8	13/16 - 16	1.10	28	1.10	28	1.10	28
8T0083	-6	9/16 - 18	-12	13/16 - 12	-12	13/16 - 12	1.46	37	1.46	37	1.46	37



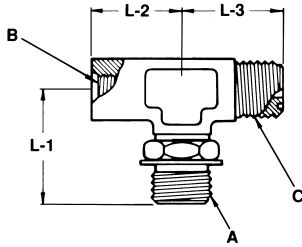
STOR Port / ORFS Male / ORFS Female Swivel - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
7X2444	-6	9/16 - 18	-4	9/16 - 18	-4	9/16 - 18	0.85	22	0.85	22	1.11	28
8T8902	-6	9/16 - 18	-6	11/16 - 16	-6	11/16 - 16	0.98	25	0.98	25	1.15	29
7X0871	-6	9/16 - 18	-8	13/16 - 16	-8	13/16 - 16	1.10	28	1.10	28	1.49	38
7X0872	-6	9/16 - 18	-10	1 - 14	-10	1 - 14	1.31	33	1.31	33	1.62	41
7X0873	-6	9/16 - 18	-12	13/16 - 12	-12	13/16 - 12	1.47	37	1.47	37	1.82	46
8T4834	-6	9/16 - 18	-16	17/16 - 12	-16	17/16 - 12	1.38	35	1.64	42	2.11	54



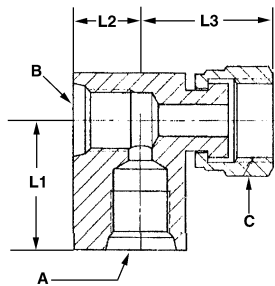
STOR Port / ORFS Male / STOR Boss - Tee

PART NUMBER	A		B		C		L1 LENGTH		L2 LENGTH		L3 LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
7X2463	-3	3/8 - 24	-4	9/16 - 18	-4	7/16 - 20	0.85	22	0.85	22	1.29	33
3E2310	-6	9/16 - 18	-6	11/16 - 16	-6	9/16 - 18	0.98	25	0.98	25	1.37	35
8T6338	-6	9/16 - 18	-8	13/16 - 16	-8	3/4 - 16	1.10	28	1.10	28	1.61	41
8C0569	-6	9/16 - 18	-12	13/16 - 12	-12	11/16 - 12	0.94	24	1.46	37	2.17	55
1096511	-6	9/16 - 18	-12	13/16 - 12	-16	15/16 - 12	1.64	42	1.61	41	2.35	60
8T1674	-6	9/16 - 18	-16	17/16 - 12	-16	15/16 - 12	1.65	42	1.65	42	2.36	60
8C7514	-10	7/8 - 14	-8	13/16 - 16	-10	7/8 - 14	1.30	33	1.22	31	1.97	50
8T8900	-12	11/16 - 12	-12	13/16 - 12	-12	11/16 - 12	1.47	37	1.72	44	2.42	62



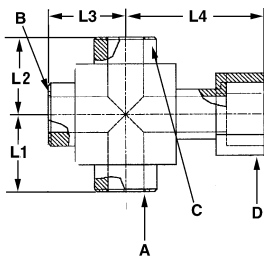
STOR Boss / STOR Port / ORFS Male - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD DASH SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T3311	-6	9/16 - 18	-6	9/16 - 18	-4	9/16 - 18	1.61	41	0.94	24	0.94	24
7X2459	-6	9/16 - 18	-6	9/16 - 18	-6	11/16 - 16	1.46	37	0.98	25	0.98	25
8C3415	-8	3/4 - 16	-6	9/16 - 18	-6	11/16 - 16	1.61	41	0.98	25	1.06	27
9X2541	-10	7/8 - 14	-6	9/16 - 18	-12	13/16 - 12	2.01	51	0.97	25	1.62	41
3E2345	-12	1 1/16 - 12	-6	9/16 - 18	-12	13/16 - 12	2.17	55	0.97	25	1.62	41
8C4082	-12	1 1/16 - 12	-6	9/16 - 18	-16	17/16 - 12	2.35	60	1.64	42	1.64	42
8T3312	-16	1 5/16 - 12	-6	9/16 - 18	-12	13/16 - 12	2.36	60	0.98	25	1.46	37
8C6515	-16	1 5/16 - 12	-6	9/16 - 18	-16	17/16 - 12	2.36	60	1.65	42	1.65	42



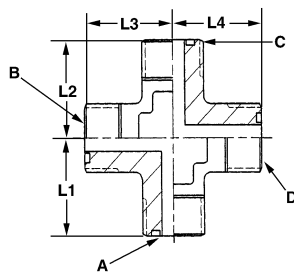
STOR Port / STOR Port / ORFS Female Swivel - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	ORFS THREAD DASH SIZE	ORFS THREAD DASH SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
5I4376	-6	9/16 - 18	-6	9/16 - 18	-6	11/16 - 16	1.06	28	0.59	15	1.09	29



ORFS Male / ORFS Male / ORFS Male / ORFS Female - Cross

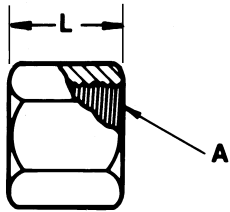
PART NUMBER	A-D	A-D	L1		L2		L3		L4	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1175208	-16	1 7/16 - 12	1.76	45	1.76	45	1.76	45	2.29	58



ORFS Male Union - Cross

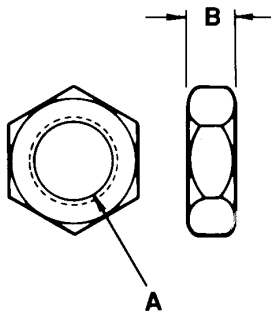
PART NUMBER	A-D	A-D	L1		L2		L3		L4	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
7X3406	-6	1 1/16 - 16	0.98	25	0.98	25	0.98	25	0.98	25
8I1021	-20	1 11/16 - 12	1.76	45	1.76	45	1.76	45	1.76	45

ORFS Adapters



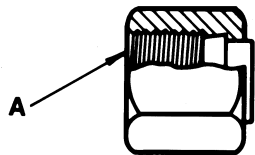
ORFS Swivel Nut

PART NUMBER	A		L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)
6V8552	-4	9/16 - 18	0.58	15
6V8553	-6	11/16 - 16	0.67	17
6V8554	-8	13/16 - 16	0.83	21
6V8555	-10	1 - 14	0.93	24
6V8556	-12	13/16 - 12	1.02	26
6V8557	-16	17/16 - 12	1.09	28
6V8558	-20	111/16 - 12	1.09	28
8T1681	-24	2 - 12	1.09	28



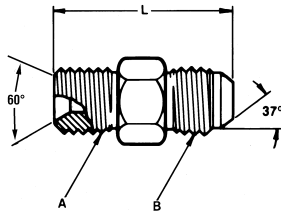
ORFS Bulkhead Nut

PART NUMBER	A		B	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	(in)	(mm)
2P1279	-4	9/16 - 18	0.28	7
6V9168	-6	11/16 - 16	0.32	8
6V9169	-8	13/16 - 16	0.35	9
6V9170	-10	1 - 14	0.39	10
2P1293	-12	13/16 - 12	0.39	10
6V9172	-16	17/16 - 12	0.39	10
6V9173	-20	111/16 - 12	0.39	10



ORFS Cap

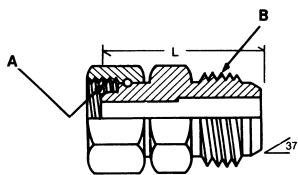
PART NUMBER	A	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)
6V9828	-4	9/16 - 18
6V9829	-6	11/16 - 16
6V9830	-8	13/16 - 16
6V9831	-10	1 - 14
6V9832	-12	13/16 - 12
6V9833	-16	17/16 - 12
6V9834	-20	111/16 - 12



Male BSPP / JIC 37° Male

PART NUMBER	A		B		L LENGTH		BSPP DOWTY SEAL
	BSPP THREAD DASH SIZE	BSPP THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	
6V3521	-2	1/8 - 28	-4	7/16 - 20	1.36	35	6V0404
6V3522	-4	1/4 - 19	-4	7/16 - 20	1.38	35	6V0405
6V3523	-6	3/8 - 19	-6	9/16 - 18	1.46	37	6V0406
6V3525	-6	3/8 - 19	-8	3/4 - 16	1.54	39	6V0406
6V3524	-8	1/2 - 14	-8	3/4 - 16	1.61	41	6V0407
6V3526	-8	1/2 - 14	-10	7/8 - 14	1.73	44	6V0407
8T2218	-10	5/8 - 14	-10	7/8 - 14	1.91	49	8C6504
6V3528	-12	3/4 - 14	-10	7/8 - 14	1.87	48	6V0408
6V3527	-12	3/4 - 14	-12	1 1/16 - 12	1.99	51	6V0408
6V3529	-16	1 - 11	-16	1 5/16 - 12	2.09	53	6V0409

Dowty seal is required with a port connection only. No seal is required with a BSPP Female Swivel 60° Cone or Spherical Seat.

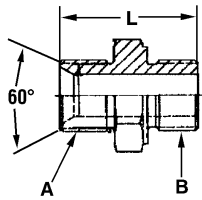


Female Swivel BSPP-JIS Parallel - Spherical Seat / JIC 37° Male

PART NUMBER	A		B		L LENGTH	
	BSPP-JIS THREAD DASH SIZE	BSPP-JIS THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
6V7622	-2	1/8 - 28	-4	7/16 - 20	1.37	35
6V7623	-4	1/4 - 19	-4	7/16 - 20	1.51	38
6V7624	-6	3/8 - 19	-6	9/16 - 18	1.53	39
6V7626	-6	3/8 - 19	-8	3/4 - 16	1.69	43
6V7625	-8	1/2 - 14	-8	3/4 - 16	1.73	44
6V7627	-8	1/2 - 14	-10	7/8 - 14	1.83	47
8T0022	-10	5/8 - 14	-10	7/8 - 14	1.84	47
6V7629	-12	3/4 - 14	-10	7/8 - 14	2.07	53
6V7628	-12	3/4 - 14	-12	1 1/16 - 12	2.17	55
6V7630	-16	1 - 11	-16	1 5/16 - 12	2.32	59
9X2033	-20	1 1/4 - 11	-20	1 5/8 - 12	2.63	67

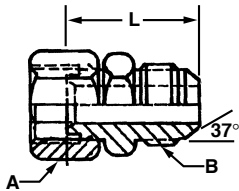
Mates to a BSPP male end with a 60° internal seat angle.

Metric Adapters



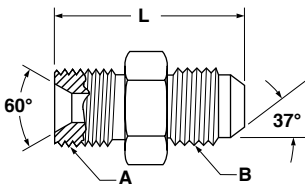
Male JIS 60° Cone / STOR Boss

PART NUMBER	A	A	B	B	L	
	JIS THREAD DASH SIZE	JIS THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
718331	-12	3/4 - 14	-12	1 1/16 - 12	1.99	51
517408	-16	1 - 11	-16	1 5/16 - 12	2.17	55



Female Swivel JIS - 30° Flare / JIC 37° Male

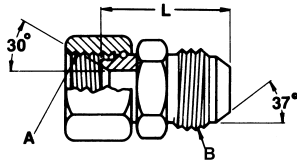
PART NUMBER	A	A	B	B	L	
	JIS THREAD DASH SIZE	JIS THREAD SIZE (in - TPI)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)
8T2125	-6	3/8 - 19	-6	9/16 - 18	1.38	35
8T2126	-8	1/2 - 14	-8	3/4 - 16	1.54	39
8T2127	-12	3/4 - 14	-12	1 1/16 - 12	1.89	48
8T2128	-16	1 - 11	-16	1 5/16 - 12	2.01	51



Metric Male - 60° Cone / JIC 37° Male

PART NUMBER	A	A	B	B	L		
	METRIC TUBE O.D.	METRIC THREAD SIZE (dia x pitch)	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	(in)	(mm)	
6V4387	0.31	8	M16 x 1.5	-6	9/16 - 18	1.22	31
6V4388	0.39	10	M18 x 1.5	-8	3/4 - 16	1.32	34
6V4389	0.51	13	M22 x 1.5	-10	7/8 - 14	1.52	39
6V4390	0.63	16	M26 x 1.5	-12	1 1/16 - 12	1.63	41
6V4391	0.79	20	M30 x 1.5	-16	1 5/16 - 12	1.73	44
6V4392	0.98	25	M38 x 1.5	-20	1 5/8 - 12	1.87	48
6V4393	1.26	32	M45 x 1.5	-24	1 7/8 - 12	1.99	51
6V4394	1.65	42	M52 x 1.5	-32	2 1/2 - 12	2.40	61

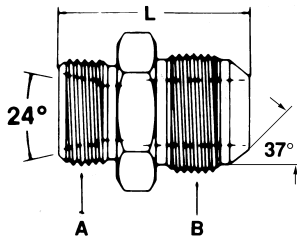
Not recommended for use in a metric port.



Female Swivel JIS - 30° Flared Seat / JIC 37° Male

PART NUMBER	A METRIC TUBE O.D.		A METRIC THREAD SIZE	B JIC THREAD DASH SIZE	B JIC THREAD SIZE	L LENGTH	
	(in)	(mm)	(dia x pitch)		(in - TPI)	(in)	(mm)
8T2129	0.31	8	M18 x 1.5	-6	9/16 - 18	1.38	35
8T2130	0.39	10	M22 x 1.5	-8	3/4 - 16	1.57	40
8T2131	0.51	13	M24 x 1.5	-12	1 1/16 - 12	1.81	46
8T2132	0.63	16	M30 x 1.5	-12	1 1/16 - 12	1.91	49
8T2133	0.79	20	M33 x 1.5	-16	1 5/16 - 12	1.99	51
8T2219	1.26	32	M36 x 1.5	-20	1 5/8 - 12	2.11	54
8T2220	1.26	32	M42 x 1.5	-24	1 7/8 - 12	2.44	62

Metric connections used primarily on Komatsu machines.

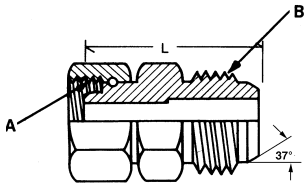


Metric Male - 24° Cone - Light Duty / JIC 37° Male

PART NUMBER	A METRIC TUBE O.D.		A METRIC THREAD SIZE	B JIC THREAD DASH SIZE	B JIC THREAD SIZE	L LENGTH	
	(in)	(mm)	(dia x pitch)		(in - TPI)	(in)	(mm)
3E7437	0.24	6	M12 x 1.5	-4	7/16 - 20	1.22	31
6V0472	0.31	8	M14 x 1.5	-6	9/16 - 18	1.22	31
6V4373	0.39	10	M16 x 1.5	-8	3/4 - 16	1.36	35
6V4374	0.47	12	M18 x 1.5	-8	3/4 - 16	1.36	35
6V4375	0.59	15	M22 x 1.5	-10	7/8 - 14	1.52	39
6V4376	0.71	18	M26 x 1.5	-12	1 1/16 - 12	1.69	43
6V4377	0.87	22	M30 x 2.0	-16	1 5/16 - 12	1.81	46
6V4378	1.10	28	M36 x 2.0	-20	1 5/8 - 12	1.87	48
6V4379	1.38	35	M45 x 2.0	-24	1 7/8 - 12	2.07	53
6V4380	1.65	42	M52 x 2.0	-32	2 1/2 - 12	2.40	61

Not recommended for use in a metric port.

Metric Adapters



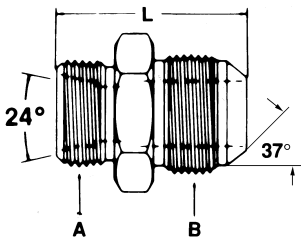
Metric Female Swivel - Spherical Seat - Light Duty / JIC 37° Male

PART NUMBER	A METRIC TUBE O.D.		A METRIC THREAD SIZE	B JIC THREAD DASH SIZE	B JIC THREAD SIZE	L LENGTH	
	(in)	(mm)	(dia x pitch)		(in - TPI)	(in)	(mm)
6V4395*	0.31 or 0.39	8 or 10	M16 x 1.5	-8	3/4 - 16	1.60	41
6V4396*	0.39 or 0.47	10 or 12	M18 x 1.5	-6	9/16 - 18	1.50	38
6V4402*	0.39 or 0.47	10 or 12	M18 x 1.5	-8	3/4 - 16	1.60	41
6V4397*	0.51 or 0.59	13 or 15	M22 x 1.5	-10	7/8 - 14	1.82	46
6V4398*	0.63 or 0.71	16 or 18	M26 x 1.5	-12	1 1/16 - 12	2.05	52
6V4403++	0.87	22	M30 x 2.0	-16	1 5/16 - 12	2.10	53
6V4399+	0.98	25	M38 x 1.5	-20	1 5/8 - 12	2.38	61
6V4404++	1.10	28	M36 x 2.0	-20	1 5/8 - 12	2.29	58
6V4400+	1.26	32	M45 x 1.5	-24	1 7/8 - 12	2.61	66
6V4405++	1.38	35	M45 x 2.0	-24	1 7/8 - 12	2.61	66
6V4401+	1.58	40	M52 x 1.5	-32	2 1/2 - 12	2.86	73
6V4406++	1.65	42	M52 x 2.0	-32	2 1/2 - 12	2.89	74

* Mates to a metric male end with 60° internal seat angle on an 8, 10, 13, or 16 mm tube or a 24° internal seat angle on a 10, 12, 15, or 18 mm tube.

+ Mates to a metric male end with a 60° internal seat angle only.

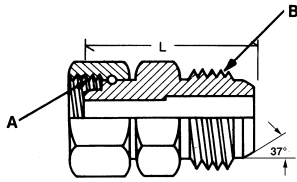
++ Mates to a metric male end with a 24° internal seat angle only.



Metric Male - 24° Cone - Heavy Duty / JIC 37° Male

PART NUMBER	A METRIC TUBE O.D.		A METRIC THREAD SIZE	B JIC THREAD DASH SIZE	B JIC THREAD SIZE	L LENGTH	
	(in)	(mm)	(dia x pitch)		(in - TPI)	(in)	(mm)
6V4381	0.55	14	M22 x 1.5	-10	7/8 - 14	1.60	41
6V4382	0.63	16	M24 x 1.5	-12	1 1/16 - 12	1.77	45
6V4383	0.79	20	M30 x 2.0	-16	1 5/16 - 12	1.89	48
6V4384	0.98	25	M36 x 2.0	-20	1 5/8 - 12	2.03	52
6V4385	1.18	30	M42 x 2.0	-24	1 7/8 - 12	2.23	57
6V4386	1.50	38	M52 x 2.0	-32	2 1/2 - 12	2.64	67

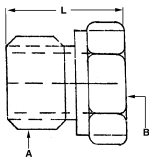
Not recommended for use in a metric port.



Metric Female Swivel - Spherical Seat - Heavy Duty / JIC 37° Male

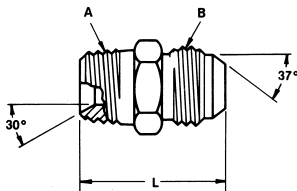
PART NUMBER	A METRIC TUBE O.D.		A METRIC THREAD SIZE	B JIC THREAD DASH SIZE	B JIC THREAD SIZE	L LENGTH	
	(in)	(mm)	(dia x pitch)		(in - TPI)	(in)	(mm)
6V4407	0.55	14	M22 x 1.5	-10	7/8 - 14	1.76	45
6V4408	0.63	16	M24 x 1.5	-12	1 1/16 - 12	1.94	49
6V4409	0.79	20	M30 x 2.0	-16	1 5/16 - 12	2.10	53
6V4410	0.98	25	M36 x 2.0	-20	1 5/8 - 12	2.29	58
6V4411	1.18	30	M42 x 2.0	-24	1 7/8 - 12	2.58	66
6V4412	1.50	38	M52 x 2.0	-32	2 1/2 - 12	2.86	73

Mates to a metric male end with a 24° internal seat angle only.



Metric Male / Female NPTF

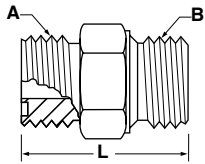
PART NUMBER	A METRIC TUBE O.D.		A METRIC THREAD SIZE	B NPTF THREAD DASH SIZE	B NPTF THREAD SIZE	L LENGTH	
	(in)	(mm)	(dia x pitch)		(in - TPI)	(in)	(mm)
5C7617	0.31	8	M14 x 1.5	-4	1/4 - 18	1.31	33



Male BSPT / JIC 37° Male

PART NUMBER	A BSPT THREAD DASH SIZE	A BSPT THREAD SIZE	B JIC THREAD DASH SIZE	B JIC THREAD SIZE	L LENGTH	
		(in - TPI)		(in - TPI)	(in)	(mm)
8T2121	-6	3/8 - 19	-6	9/16 - 18	1.50	38
8T2122	-8	1/2 - 14	-8	3/4 - 16	1.81	46
8T2123	-12	3/4 - 14	-12	1 1/16 - 12	2.17	55
8T2124	-16	1 - 11	-16	1 5/16 - 12	2.36	60

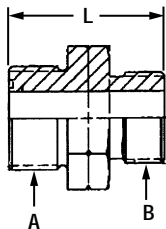
Metric Adapters



ORFS Male / Male BSPP

PART NUMBER	A	A	B	B	L		BSPP DOWTY SEAL
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	BSPP THREAD SIZE (in - TPI)	(in)	(mm)	
8C6781*	-6	1 ¹ / ₁₆ - 16	-6	3/8 - 19	1.26	32	6V0406

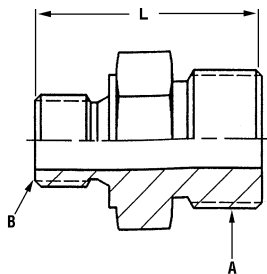
* For BSPP Port only. Requires dowty seal.



ORFS Male / Male JIS

PART NUMBER	A	A	B	B	L	
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	JIS THREAD DASH SIZE	JIS THREAD SIZE (in - TPI)	(in)	(mm)
0862746*	-12	1 ³ / ₁₆ - 12	-12	3/4 - 14	1.77	45
0966223*	-16	1 ⁷ / ₁₆ - 12	-16	1 - 11	1.95	50

* For JIS Port only.

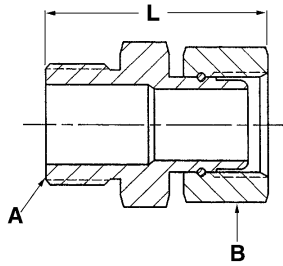


STOR Boss / Male BSPP

PART NUMBER	A	A	B	B	L		BSPP DOWTY SEAL
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	BSPP THREAD SIZE (in - TPI)	(in)	(mm)	
8T8897*	-12	1 ¹ / ₁₆ - 12	-12	3/4 - 14	1.85	47	6V0408
7X2432	-16	1 ⁵ / ₁₆ - 12	-12	3/4 - 14	1.98	50	6V0408
4C6494	-16	1 ⁵ / ₁₆ - 12	-16	1 - 11	2.06	52	6V0409

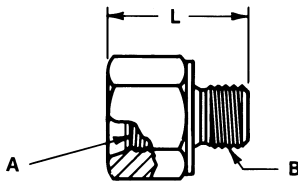
Dowty seal is required with a port connection only. No seal is required with a BSPP Female Swivel 60° Cone or Spherical Seat.

* For BSPP Port only.



STOR Boss / Female Swivel BSPP - Spherical Seat

PART NUMBER	A	A	B	B	L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	BSPP THREAD SIZE (in - TPI)	(in)	(mm)
7X2612	-16	15/16 - 12	-12	3/4 - 14	2.35	60
4C6495	-16	15/16 - 12	-16	1 - 11	2.42	62

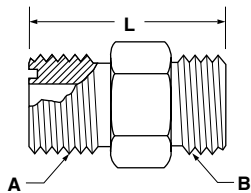


STOR Port / Male BSPP - 60° Cone

PART NUMBER	A	A	B	B	L		BSPP DOWTY SEAL
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	BSPP THREAD DASH SIZE	BSPP THREAD SIZE (in - TPI)	(in)	(mm)	
8T7908	-4	7/16 - 20	-2	1/8 - 28	1.28	33	6V0404
8T7909	-4	7/16 - 20	-4	1/4 - 19	1.43	36	6V0405
8T7910	-6	9/16 - 18	-4	1/4 - 19	1.45	37	6V0405
8T7911	-6	9/16 - 18	-6	3/8 - 19	1.49	38	6V0406
8T7912	-8	3/4 - 16	-6	3/8 - 19	1.59	40	6V0406
8T7913	-8	3/4 - 16	-8	1/2 - 14	1.67	42	6V0407
8T7914	-10	7/8 - 14	-8	1/2 - 14	1.81	46	6V0407
8T7915	-12	11/16 - 12	-12	3/4 - 14	2.04	52	6V0408
8T7916	-12	11/16 - 12	-16	1 - 11	2.15	55	6V0409
8T7917	-16	15/16 - 12	-16	1 - 11	2.15	55	6V0409

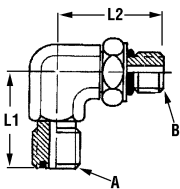
Dowty seal is required with a port connection only. No seal is required with a BSPP Female Swivel 60° Cone or Spherical Seat.

Metric Adapters



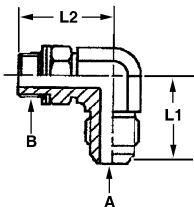
ORFS Male / Metric Male

PART NUMBER	A	A	B		L		
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	METRIC TUBE O.D. (in) (mm)	METRIC THREAD SIZE (dia x pitch)	LENGTH (in)	LENGTH (mm)	
8T7487	-4	9/16 - 18	0.24	6	M12 x 1.5	1.13	29
2U6826	-6	11/16 - 16	0.24	6	M12 x 1.5	1.24	31
1237341	-6	11/16 - 16	0.24	6	M12 x 1.5	1.97	50
8T7489	-6	11/16 - 16	0.31	8	M14 x 1.5	1.24	31
8T6725	-6	11/16 - 16	0.39	10	M16 x 1.5	1.34	34
8T7488	-8	13/16 - 16	0.39	10	M16 x 1.5	1.40	36
8T7490	-8	13/16 - 16	0.47	12	M18 x 1.5	1.44	37
8T7491	-8	13/16 - 16	0.63	16	M22 x 1.5	1.57	40
8T7493	-10	1 - 14	0.63	16	M22 x 1.5	1.68	43
8T7495	-10	1 - 14	0.79	20	M27 x 2.0	1.85	47
8T7492	-12	13/16 - 12	0.63	16	M22 x 1.5	1.97	50
8T7494	-12	13/16 - 12	0.79	20	M27 x 2.0	1.91	49
8T7496	-16	17/16 - 12	0.98	25	M33 x 2.0	1.98	50
8T7497	-20	111/16 - 12	0.98	25	M33 x 2.0	2.06	52



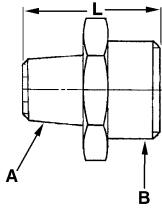
ORFS Male / Metric Male - 90° Elbow

PART NUMBER	A	A	B		L1		L2		
	ORFS THREAD DASH SIZE	ORFS THREAD SIZE (in - TPI)	METRIC TUBE O.D. (in) (mm)	METRIC THREAD SIZE (dia x pitch)	LENGTH (in)	LENGTH (mm)	LENGTH (in)	LENGTH (mm)	
7U9582	-8	13/16 - 16	0.79	20	M27 x 2.0	1.47	37	2.01	51



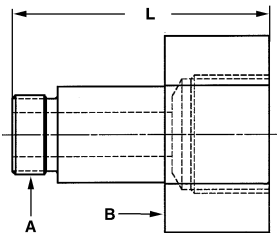
JIC 37° Male / Metric Male - 90° Elbow

PART NUMBER	A	A	B		L1		L2		
	JIC THREAD DASH SIZE	JIC THREAD SIZE (in - TPI)	METRIC TUBE O.D. (in) (mm)	METRIC THREAD SIZE (dia x pitch)	LENGTH (in)	LENGTH (mm)	LENGTH (in)	LENGTH (mm)	
1118815	-8	3/4 - 16	0.39	10	M16 x 1.5	1.25	32	1.50	38
7V7502	-16	15/16 - 12	0.71	18	M26 x 1.5	1.81	46	1.82	46



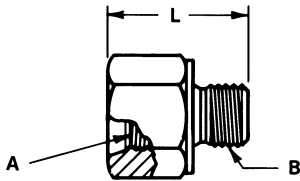
Male NPTF / Metric Male

PART NUMBER	A	A	B		B	L	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	METRIC TUBE O.D. (in)	(mm)	METRIC THREAD SIZE (dia x pitch)	(in)	(mm)
5C7618	-4	1/4 - 18	0.63	16	M22 x 1.5	1.34	34



STOR Boss / Metric Port

PART NUMBER	A	A	B		B	L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	METRIC TUBE O.D. (in)	(mm)	METRIC THREAD SIZE (dia x pitch)	(in)	(mm)
1089418	-10	7/8 - 14	0.98	25	M33 x 2.0	2.83	72
1011340	-16	15/16 - 12	0.98	25	M33 x 2.0	1.73	44

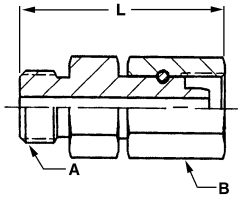


STOR Port / Metric Male

PART NUMBER	A	A	B		B	L		METRIC O-RING SEAL
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	METRIC TUBE O.D. (in)	(mm)	METRIC THREAD SIZE (dia x pitch)	(in)	(mm)	
8T7859	-4	7/16 - 20	0.24	6	M10 x 1.0	1.34	34	8T7876
8T7860	-4	7/16 - 20	0.24	6	M12 x 1.5	1.40	36	6V9028
6V8926	-6	9/16 - 18	0.24	6	M10 x 1.0	1.17	30	8T7876
8T7861	-6	9/16 - 18	0.39	10	M14 x 1.5	1.47	37	6V6560
8T7862	-8	3/4 - 16	0.51	13	M16 x 1.5	1.61	41	8T6850
8T7863	-8	3/4 - 16	0.51	13	M18 x 1.5	1.67	42	8T7524
8T7864	-10	7/8 - 14	0.63	16	M20 x 1.5	1.83	47	8T7877
8T7865	-10	7/8 - 14	0.63	16	M22 x 1.5	1.87	48	6V7970
8T7866	-12	1 1/16 - 12	0.75	19	M26 x 1.5	2.05	52	8T7878
8T7867	-12	1 1/16 - 12	0.79	20	M27 x 2.0	2.17	55	8T7878
8T7868	-16	1 5/16 - 12	0.98	25	M33 x 2.0	2.21	56	8T7526

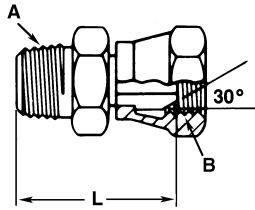
Recommended for use in 1S0 6149 (1E2712) metric ports only. Metric O-Ring Seal is required with a metric port connection.

Metric Adapters



STOR Boss / Metric Female Swivel Spherical Seat - Light Duty

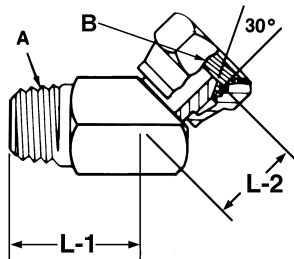
PART NUMBER	A	A	B		L		
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	METRIC TUBE O.D. (in)	(mm)	METRIC THREAD SIZE (dia x pitch)	(in)	(mm)
9X8264	-6	9/16 - 18	0.31	8	M14 x 1.5	1.50	38
9X8265	-6	9/16 - 18	0.47	12	M18 x 1.5	1.50	38



Male NPTF / Female Swivel NPSM*

PART NUMBER	A	A	B	B	L	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)
2R1922	-2	1/8 - 27	-2	1/8 - 27	0.94	24
4D2560	-2	1/8 - 27	-4	1/4 - 18	1.06	27
9J7600	-4	1/4 - 18	-2	1/8 - 27	1.18	30
4H6147	-4	1/4 - 18	-4	1/4 - 18	1.22	31
3L7055	-4	1/4 - 18	-6	3/8 - 18	1.30	33
2D0193	-6	3/8 - 18	-4	1/4 - 18	1.30	33
2L3331	-6	3/8 - 18	-6	3/8 - 18	1.30	33
2D0058	-6	3/8 - 18	-8	1/2 - 14	1.42	36
6D6489	-8	1/2 - 14	-6	3/8 - 18	1.57	40
2H9091	-8	1/2 - 14	-8	1/2 - 14	1.57	40
7D0702	-8	1/2 - 14	-12	3/4 - 14	1.73	44
3D8911	-12	3/4 - 14	-8	1/2 - 14	1.57	40
5F6371	-12	3/4 - 14	-12	3/4 - 14	1.73	44
2N7308	-12	3/4 - 14	-16	1 - 11 1/2	2.09	53
1L5987	-16	1 - 11 1/2	-16	1 - 11 1/2	1.97	50
3L3869	-20	1 1/4 - 11 1/2	-20	1 1/4 - 11 1/2	2.09	53
1137099	-24	1 - 11 1/2	-12	3/4 - 14	1.98	50
2N1362	-24	1 1/2 - 11 1/2	-20	1 1/4 - 11 1/2	2.09	53
1L1722	-24	1 1/2 - 11 1/2	-24	1 1/2 - 11 1/2	2.17	55

* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.

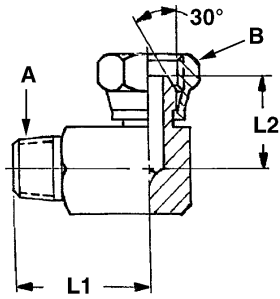


Male NPTF / Female Swivel NPSM - 45° Elbow*

PART NUMBER	A	A	B	B	L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
3D7587	-4	1/4 - 18	-4	1/4 - 18	1.26	32	0.91	23
4D0582	-6	3/8 - 18	-6	3/8 - 18	1.06	27	0.98	25
3S8666	-8	1/2 - 14	-4	1/4 - 18	1.38	35	1.02	26
3S9175	-8	1/2 - 14	-6	3/8 - 18	1.38	35	1.02	26
4D3734	-8	1/2 - 14	-8	1/2 - 14	1.38	35	1.10	28
4D6314	-12	3/4 - 14	-8	1/2 - 14	1.50	38	1.18	30
6H8297	-12	3/4 - 14	-12	3/4 - 14	1.50	38	1.34	34
0015262	-16	1 - 11 1/2	-16	1 - 11 1/2	1.50	38	1.46	37
0044977	-20	1 1/4 - 11 1/2	-20	1 1/4 - 11 1/2	1.77	45	1.57	40
6L5955	-20	1 1/4 - 11 1/2	-20	1 1/4 - 11 1/2	1.97	50	1.73	44

* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.

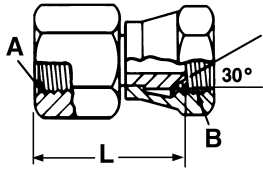
NPSM Adapters



Male NPTF / Female Swivel NPSM - 90° Elbow*

PART NUMBER	A		B		L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
4D6475	-2	1/8 - 27	-2	1/8 - 27	0.98	25	0.75	19
5K3771	-2	1/8 - 27	-2	1/8 - 27	1.65	42	0.63	16
7K2094	-2	1/8 - 27	-2	1/8 - 27	3.62	92	0.63	16
4S7606	-2	1/8 - 27	-4	1/4 - 18	1.12	26	0.79	20
5H4778	-4	1/4 - 18	-4	1/4 - 18	1.26	32	0.94	24
4D0124	-4	1/4 - 18	-4	1/4 - 18	2.52	64	0.79	20
1S0401	-4	1/4 - 18	-6	3/8 - 18	1.50	38	1.10	28
4J3914	-6	3/8 - 18	-4	1/4 - 18	1.26	32	1.02	26
4D0577	-6	3/8 - 18	-6	3/8 - 18	1.50	38	1.10	28
2D8910	-6	3/8 - 18	-8	1/2 - 14	1.93	49	1.26	32
3D6370	-8	1/2 - 14	-4	1/4 - 18	1.46	37	1.14	29
3D8913	-8	1/2 - 14	-6	3/8 - 18	1.73	44	1.14	29
9D3351	-8	1/2 - 14	-6	3/8 - 18	1.78	45	0.98	25
2H3940	-8	1/2 - 14	-8	1/2 - 14	1.73	44	1.26	32
9D3352	-8	1/2 - 14	-8	1/2 - 14	1.78	45	1.00	25
7D0477	-8	1/2 - 14	-12	3/4 - 14	2.01	51	1.54	39
0037030	-12	3/4 - 14	-6	3/8 - 18	1.73	44	1.26	32
2L8228	-12	3/4 - 14	-8	1/2 - 14	1.89	48	1.42	36
2H3939	-12	3/4 - 14	-12	3/4 - 14	2.01	51	1.54	39
0043935	-16	1 - 11 ¹ / ₂	-12	3/4 - 14	2.32	59	1.69	43
3H9690	-16	1 - 11 ¹ / ₂	-16	1 - 11 ¹ / ₂	2.36	60	1.73	44
0043802	-16	1 - 11 ¹ / ₂	-20	1 ¹ / ₄ - 11 ¹ / ₂	2.56	65	1.97	50
2L7070	-20	1 ¹ / ₄ - 11 ¹ / ₂	-20	1 ¹ / ₄ - 11 ¹ / ₂	2.56	65	1.97	50
1L0766	-24	1 ¹ / ₂ - 11 ¹ / ₂	-24	1 ¹ / ₂ - 11 ¹ / ₂	2.80	71	2.13	54

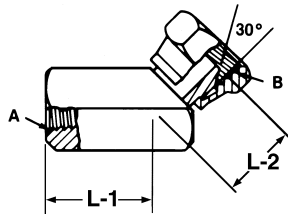
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



Female NPTF / Female Swivel NPSM*

PART NUMBER	A	A	B	B	L	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)
3D9253	-2	1/8 - 27	-2	1/8 - 27	1.10	28
7D0215	-2	1/8 - 27	-4	1/4 - 18	1.10	28
2J4211	-4	1/4 - 18	-4	1/4 - 18	1.30	33
4D0513	-6	3/8 - 18	-6	3/8 - 18	1.30	33
8M0792	-8	1/2 - 14	-8	1/2 - 14	1.50	38
1L2702	-12	3/4 - 14	-12	3/4 - 14	1.61	41
7F7807	-16	1 - 11 1/2	-16	1 - 11 1/2	1.97	50

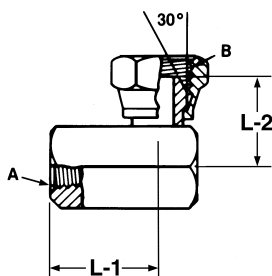
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



Female NPTF / Female Swivel NPSM - 45° Elbow*

PART NUMBER	A	A	B	B	L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
4D6585	-4	1/4 - 18	-4	1/4 - 18	0.91	23	0.91	23
4D2016	-6	3/8 - 18	-6	3/8 - 18	1.06	27	0.98	25
2H3938	-12	3/4 - 14	-12	3/4 - 14	1.26	32	1.38	35

* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.

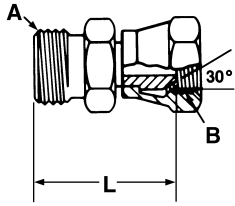


Female NPTF / Female Swivel NPSM - 90° Elbow*

PART NUMBER	A	A	B	B	L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
5D0269	-2	1/8 - 27	-2	1/8 - 27	0.94	24	0.98	25
4D4267	-4	1/4 - 18	-4	1/4 - 18	0.94	24	0.98	25
4D0283	-6	3/8 - 18	-4	1/4 - 18	1.06	27	1.10	28
2D8912	-6	3/8 - 18	-8	1/2 - 14	1.26	32	1.26	32
2L3622	-8	1/2 - 14	-8	1/2 - 14	1.26	32	1.26	32
1L4762	-16	1 - 11 1/2	-16	1 - 11 1/2	1.73	44	1.73	44
6V9013	-24	1 1/2 - 11 1/2	-24	1 1/2 - 11 1/2	2.24	57	1.61	41

* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.

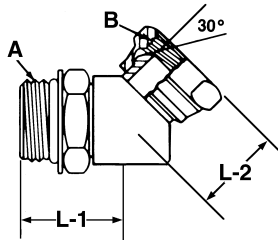
NPSM Adapters



STOR Boss / Female Swivel NPSM*

PART NUMBER	A STOR THREAD DASH SIZE	A STOR THREAD SIZE (in - TPI)	B NPSM THREAD DASH SIZE	B NPSM THREAD SIZE (in - TPI)	L LENGTH	
					(in)	(mm)
4D6534	-4	7/16 - 20	-4	1/4 - 18	1.02	26
6D4529	-5	1/2 - 20	-4	1/4 - 18	1.02	26
6D1891	-6	9/16 - 18	-4	1/4 - 18	1.10	28
6D4095	-6	9/16 - 18	-6	3/8 - 18	1.14	29
6D2784	-8	3/4 - 16	-8	1/2 - 14	1.26	32
5P0234	-8	3/4 - 16	-12	3/4 - 14	1.42	36
8J3705	-10	7/8 - 14	-8	1/2 - 14	1.30	33
8D7276	-10	7/8 - 14	-12	3/4 - 14	1.77	45
6D4492	-12	1 1/16 - 12	-8	1/2 - 14	1.50	38
6D6081	-12	1 1/16 - 12	-12	3/4 - 14	1.57	40
7L7280	-16	1 5/16 - 12	-16	1 - 11 1/2	1.97	50

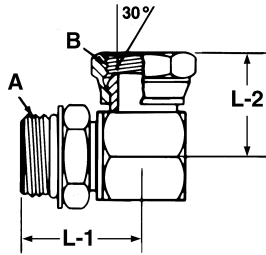
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



STOR Boss / Female Swivel NPSM - 45° Elbow*

PART NUMBER	A STOR THREAD DASH SIZE	A STOR THREAD SIZE (in - TPI)	B NPSM THREAD DASH SIZE	B NPSM THREAD SIZE (in - TPI)	L1 LENGTH		L2 LENGTH	
					(in)	(mm)	(in)	(mm)
5P7915	-4	7/16 - 20	-4	1/4 - 18	1.06	27	0.91	23
5P7916	-6	9/16 - 18	-4	1/4 - 18	1.10	28	0.94	24
5P7917	-6	9/16 - 18	-6	3/8 - 18	1.06	27	0.98	25
6V0468	-8	3/4 - 16	-6	3/8 - 18	1.10	28	0.75	19
5P7918	-8	3/4 - 16	-8	1/2 - 14	1.10	28	1.10	28
5P7919	-10	7/8 - 14	-8	1/2 - 14	1.30	33	1.10	28
0307976	-12	1 1/16 - 12	-12	3/4 - 14	1.50	38	1.38	35
5P7920	-16	1 5/16 - 12	-16	1 - 11 1/2	1.65	42	1.46	37

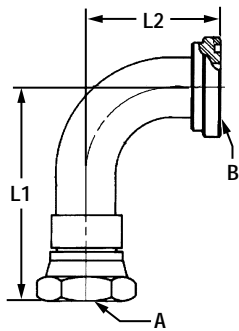
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



STOR Boss / Female Swivel NPSM - 90° Elbow*

PART NUMBER	A	A	B	B	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
5P7981	-4	7/16 - 20	-4	1/4 - 18	1.10	28	0.98	25
5P7982	-6	9/16 - 18	-4	1/4 - 18	1.26	32	0.98	25
0306817	-6	9/16 - 18	-6	3/8 - 18	1.30	33	1.10	28
5P7983	-6	9/16 - 18	-6	3/8 - 18	2.40	61	0.91	23
0306818	-8	3/4 - 16	-6	3/8 - 18	0.87	22	1.42	36
0306819	-8	3/4 - 16	-12	3/4 - 14	1.65	42	1.54	39
0307977	-10	7/8 - 14	-8	1/2 - 14	1.65	42	1.26	32
1W7534	-10	7/8 - 14	-8	1/2 - 14	1.69	43	0.98	25
6V4363	-10	7/8 - 14	-12	3/4 - 14	1.77	45	1.22	31
0307978	-12	11/16 - 12	-12	3/4 - 14	1.93	49	1.54	39
5P7984	-16	15/16 - 12	-12	3/4 - 14	1.93	49	1.65	42
0307979	-16	15/16 - 12	-16	1 - 11 1/2	2.09	53	1.69	43
0307980	-20	15/8 - 12	-20	1 1/4 - 11 1/2	2.44	62	1.93	49

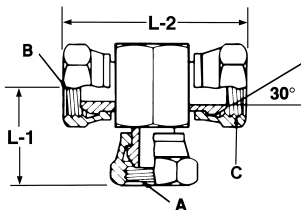
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



Female Swivel NPSM / SAE Code 61 Flange - 90° Elbow*

PART NUMBER	A	A	B		L1		L2		
	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	HEAD SIZE (in)	FLANGE DASH SIZE (mm)	(in)	(mm)	(in)	(mm)	
1P7365	-12	3/4 - 14	1.50	38.1	-12	2.80	71	2.13	54

* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.

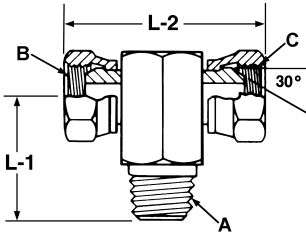


Female Swivel NPSM Union - Tee*

PART NUMBER	A	A	B	B	C	C	L1		L2	
	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
4D9976	-4	1/4 - 18	-4	1/4 - 18	-4	1/4 - 18	1.02	26	2.24	57
0047131	-12	3/4 - 14	-12	3/4 - 14	-12	3/4 - 14	1.02	26	3.39	86

* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.

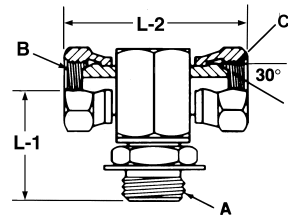
NPSM Adapters



Male NPTF / Female Swivel NPSM / Female Swivel NPSM - Tee*

PART NUMBER	A	A	B	B	C	C	L1		L2	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
3S6115	-4	1/4 - 18	-4	1/4 - 18	-4	1/4 - 18	1.26	32	1.97	50
7J5996	-6	3/8 - 18	-6	3/8 - 18	-6	3/8 - 18	1.50	38	2.20	56
0036997	-8	1/2 - 14	-4	1/4 - 18	-8	1/2 - 14	1.46	37	2.28	58
4D4917	-8	1/2 - 14	-8	1/2 - 14	-8	1/2 - 14	1.73	44	2.52	64
4D0583	-12	3/4 - 14	-8	1/2 - 14	-12	3/4 - 14	1.73	44	2.80	71
2N1361	-20	1 1/4 - 11 1/2	-20	1 1/4 - 11 1/2	-20	1 1/4 - 11 1/2	2.56	65	3.90	99

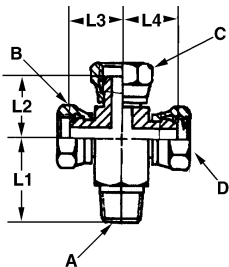
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



STOR Boss / Female Swivel NPSM / Female Swivel NPSM - Tee*

PART NUMBER	A	A	B	B	C	C	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
5P7929	-6	9/16 - 18	-4	1/4 - 18	-4	1/4 - 18	1.26	32	2.01	51
5P7930	-8	3/4 - 16	-8	1/2 - 14	-8	1/2 - 14	1.54	39	2.52	64

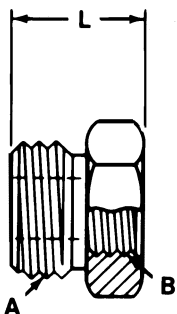
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



Male NPTF / Female NPSM / Female NPSM / Female NPSM - Cross*

PART NUMBER	A	A	B-D	B-D	L1		L2		L3		L4	
	NPTF THREAD DASH SIZE	NPTF THREAD SIZE (in - TPI)	NPSM THREAD DASH SIZE	NPSM THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6D6018	-4	1/4 - 18	-4	1/4 - 18	1.22	31	0.78	20	0.83	21	0.83	21
6V0581	-8	1/2 - 14	-8	1/2 - 14	1.78	45	1.00	25	1.08	28	1.08	28

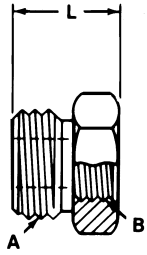
* NPSM Adapters are intended for use only in low pressure systems with hose assemblies having pipe thread couplings.



STOR Boss / STOR Port

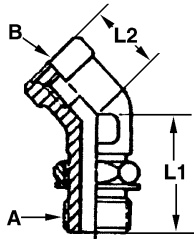
PART NUMBER	A	A	B	B	L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
8T2362	-3	3/8 - 24	-4	7/16 - 20	1.18	30
8T2353	-4	7/16 - 20	-6	9/16 - 18	1.18	30
8C7325	-4	7/16 - 20	-8	3/4 - 16	1.26	32
8T9357	-5	1/2 - 20	-4	7/16 - 20	1.06	27
5P1318	-5	1/2 - 20	-6	9/16 - 18	1.26	32
5P9617	-6	9/16 - 18	-4	7/16 - 20	1.02	25
9X2650	-6	9/16 - 18	-4	7/16 - 20	3.78	96
7W7381	-6	9/16 - 18	-6	9/16 - 18	1.30	34
5P8874	-6	9/16 - 18	-8	3/4 - 16	1.38	35
1007870	-6	9/16 - 18	-8	3/4 - 16	1.97	50
3P1932	-8	3/4 - 16	-4	7/16 - 20	0.79	20
5P4674	-8	3/4 - 16	-5	1/2 - 20	0.75	19
5P6944	-8	3/4 - 16	-6	9/16 - 18	1.06	27
8T1715	-8	3/4 - 16	-8	3/4 - 16	1.77	45
9X2493	-8	3/4 - 16	-8	3/4 - 16	2.06	52
8K4739	-10	7/8 - 14	-4	7/16 - 20	0.94	24
5P1404	-10	7/8 - 14	-6	9/16 - 18	0.83	21
6V7420	-10	7/8 - 14	-8	3/4 - 16	1.28	33
5P1042	-10	7/8 - 14	-12	1 1/16 - 12	1.69	43
2P8421	-12	1 1/16 - 12	-6	9/16 - 18	1.06	27
6V1722	-12	1 1/16 - 12	-8	3/4 - 16	1.02	26
5P1716	-12	1 1/16 - 12	-8	3/4 - 16	1.14	29
5P2211	-12	1 1/16 - 12	-10	7/8 - 14	1.61	41
3T4965	-12	1 1/16 - 12	-12	1 1/16 - 12	2.17	55
6V5258	-12	1 1/16 - 12	-16	15/16 - 12	1.89	48
9J0477	-14	1 3/16 - 12	-5	1/2 - 20	1.34	34
6V3510	-14	1 3/16 - 12	-6	9/16 - 18	1.10	28
1017198	-14	1 3/16 - 12	-12	1 1/16 - 12	2.07	53
8J0426	-16	15/16 - 12	-6	9/16 - 18	1.10	28
5P5777	-16	15/16 - 12	-8	3/4 - 16	0.98	25
6V0301	-16	15/16 - 12	-12	1 1/16 - 12	1.77	45
8C3051	-16	15/16 - 12	-16	15/16 - 12	2.56	65
1U8302	-16	15/16 - 12	-16	15/16 - 12	3.74	95
8J5914	-20	15/8 - 12	-6	9/16 - 18	1.10	28
5P8905	-20	15/8 - 12	-8	3/4 - 16	1.02	26
4S6679	-20	15/8 - 12	-12	1 1/16 - 12	0.98	25
7X2470	-20	15/8 - 12	-16	15/16 - 12	1.00	25
1U1577	-24	17/8 - 12	-6	9/16 - 18	1.93	49
5P3903	-24	17/8 - 12	-8	3/4 - 16	1.30	33

Misc. Adapters



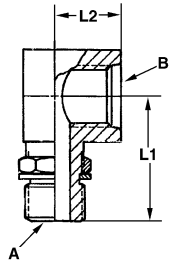
STOR Boss / STOR Port (cont.)

PART NUMBER	A	A	B	B	L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
5P2231	-32	2 1/2 - 12	-12	1 1/16 - 12	1.42	36



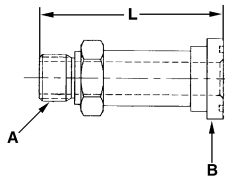
STOR Boss / STOR Port - 45° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V8077	-6	9/16 - 18	-6	9/16 - 18	1.10	28	0.91	23



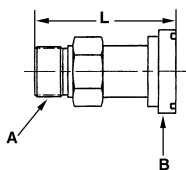
STOR Boss / STOR Port - 90° Elbow

PART NUMBER	A	A	B	B	L1		L2	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
6V3305	-5	1/2 - 20	-5	1/2 - 20	1.22	31	0.91	23
8C6712	-6	9/16 - 18	-4	7/16 - 20	1.25	32	0.83	21
6V0484	-6	9/16 - 18	-6	9/16 - 18	1.25	32	0.83	21
6V8076	-6	9/16 - 18	-6	9/16 - 18	1.34	34	0.94	24
0857356	-6	9/16 - 18	-6	9/16 - 18	1.65	42	0.63	16
8T0119	-8	3/4 - 16	-8	3/4 - 16	1.57	40	0.75	19
8T3491	-12	1 1/16 - 12	-12	1 1/16 - 12	2.00	51	1.30	33



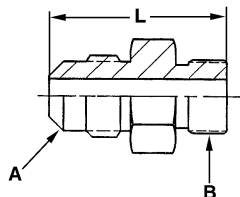
STOR Boss / SAE Code 61 Flange

PART NUMBER	A	A	B		L	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	HEAD SIZE (in)	FLANGE DASH SIZE (mm)	(in)	(mm)
9U7442	-16	1 5/16 - 12	1.19	30.2	-8	4.83
9U7443	-16	1 5/16 - 12	1.50	38.1	-12	5.02
9U7444	-16	1 5/16 - 12	1.75	44.5	-16	5.02
9U7445	-16	1 5/16 - 12	2.00	50.8	-20	5.28
9U7446	-16	1 5/16 - 12	2.38	60.3	-24	5.54



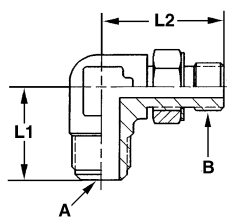
STOR Boss / SAE Code 62 Flange

PART NUMBER	A	A	B		L		
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	HEAD SIZE (in)	(mm)	FLANGE DASH SIZE	(in)	(mm)
9U7438	-16	15/16 - 12	1.63	41.3	-12	5.48	139
7X2430	-16	15/16 - 12	1.88	47.6	-16	3.14	80
1U8292	-16	15/16 - 12	1.88	47.6	-16	3.39	86
9U7439	-16	15/16 - 12	1.88	47.6	-16	5.39	137
7X2608	-16	15/16 - 12	2.13	54.0	-20	3.72	95
9U7440	-16	15/16 - 12	2.13	54.0	-20	5.66	144
9U7441	-16	15/16 - 12	2.50	63.5	-24	5.90	150



SAE 45° Male / STOR Boss

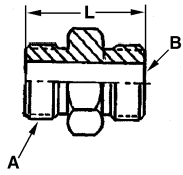
PART NUMBER	A	A	B		L	
	SAE THREAD DASH SIZE	SAE THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
7X0902	-6	5/8 - 18	-6	9/16 - 18	1.35	34
1079343	-8	3/4 - 16	-6	9/16 - 18	1.48	38
8C3120	-10	7/8 - 14	-6	9/16 - 18	1.67	43
9X6650	-10	7/8 - 14	-8	3/4 - 16	1.72	44



SAE 45° Male / STOR Boss - 90° Elbow

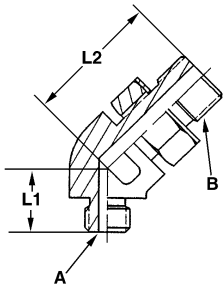
PART NUMBER	A	A	B		L1		L2	
	SAE THREAD DASH SIZE	SAE THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
1095169	-6	5/8 - 18	-6	9/16 - 18	1.02	26	1.10	28
1206726	-8	3/4 - 16	-6	9/16 - 18	1.22	31	1.54	39
8T2161	-10	7/8 - 14	-6	9/16 - 18	1.50	38	1.44	37
1034675	-10	7/8 - 14	-8	3/4 - 16	1.44	37	1.55	39

Misc. Adapters



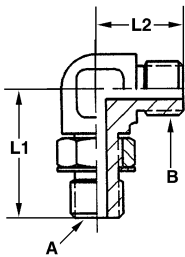
STOR Boss Union

PART NUMBER	A	A	B	B	L LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)
1085678	-4	7/16 - 20	-4	7/16 - 20	1.22	31
6V0467	-8	3/4 - 16	-8	3/4 - 16	1.38	35
6V5320	-8	3/4 - 16	-8	3/4 - 16	1.56	40
8C3178	-8	3/4 - 16	-8	3/4 - 16	2.36	60
5R6952	-8	3/4 - 16	-8	3/4 - 16	3.77	96
6Y2349	-12	1 1/16 - 12	-12	1 1/16 - 12	1.65	42
8C9029	-16	1 5/16 - 12	-16	1 5/16 - 12	1.96	50
1134676	-16	1 5/16 - 12	-16	1 5/16 - 12	2.65	67
8C9026	-16	1 5/16 - 12	-24	1 7/8 - 12	2.27	58



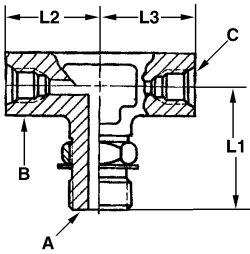
STOR Boss Union - 45° Elbow

PART NUMBER	A	A	B	B	L1 LENGTH		L2 LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
9X8403	-4	7/16 - 20	-6	9/16 - 18	0.63	16	1.30	33
8C9028	-16	1 5/16 - 12	-16	1 5/16 - 12	1.41	36	2.20	56
8C9027	-16	1 5/16 - 12	-24	1 7/8 - 12	1.55	39	2.12	54



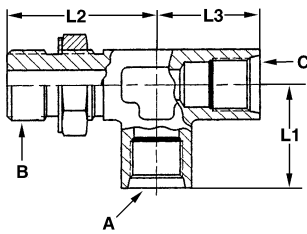
STOR Boss Union - 90° Elbow

PART NUMBER	A	A	B	B	L1 LENGTH		L2 LENGTH	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)
1170067	-4	7/16 - 20	-4	7/16 - 20	0.73	19	1.07	27
3E2332	-4	7/16 - 20	-6	9/16 - 18	1.00	25	1.25	32
9U4103	-12	1 1/16 - 12	-14	1 3/16 - 12	3.97	101	1.47	37



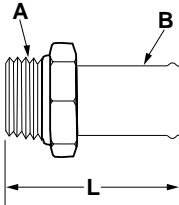
STOR Boss / STOR Port / STOR Port - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8C8431	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	1.61	41	0.96	25	0.96	25
6V1625	-6	9/16 - 18	-6	9/16 - 18	-8	3/4 - 16	1.38	35	0.83	21	0.83	21
1U8303	-16	15/16 - 12	-6	9/16 - 18	-16	15/16 - 12	1.89	48	1.35	34	1.66	42



STOR Port / STOR Boss / STOR Port - Tee

PART NUMBER	A	A	B	B	C	C	L1		L2		L3	
	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	STOR THREAD DASH SIZE	STOR THREAD SIZE (in - TPI)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8T9107	-6	9/16 - 18	-6	9/16 - 18	-6	9/16 - 18	0.96	25	1.45	37	0.96	25
1057704	-6	9/16 - 18	-8	3/4 - 16	-6	9/16 - 18	1.10	28	1.60	41	1.10	28

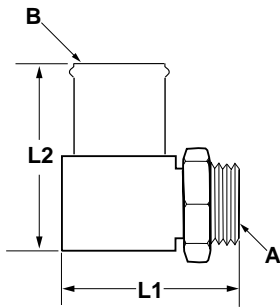


SAE Straight Thread To Hose Barb - Straight Flow Fitting

PART NUMBER	A	B
	SAE THREAD SIZE (in - TPI)	BARB O.D. (in) (mm)
9U6992	7/8 - 14	0.75 19.1
9U6993	1 1/16 - 12	1.00 25.4
9U6994	15/16 - 12	1.00 25.4
9U6995	15/8 - 12	1.25 31.8
9U6996	17/8 - 12	1.50 38.1

Buna "N" - 70 Durometer. O-Ring included with fitting.

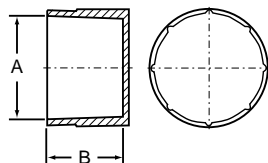
Misc. Adapters



SAE Straight Thread To Hose Barb - 90° Flow Fitting

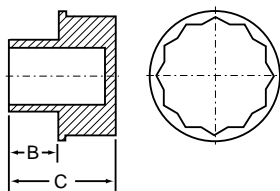
PART NUMBER	A	B	
	SAE THREAD SIZE (in - TPI)	HOSE O.D. (in)	(mm)
9U6997	7/8 - 14	1.00	25.4
9U6998	1 1/16 - 12	1.00	25.4
9U6999	1 5/16 - 12	1.00	25.4
9U7000	1 5/8 - 12	1.25	31.8

Buna "N" - 70 Durometer. O-Ring included with fitting.



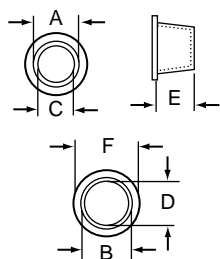
Male NPTF Pipe

PART NUMBER	A THREAD DASH SIZE	A		B	
		(in)	(mm)	(in)	(mm)
1794460	-6	0.68	17	0.50	13
1794461	-8	0.84	21	0.87	22
1794462	-12	1.05	27	0.91	23
1794463	-16	1.32	34	1.05	27
1794464	-20	1.66	42	1.05	27
1794465	-24	1.90	48	1.07	27
1794466	-32	2.38	60	1.09	28



Female NPTF Pipe

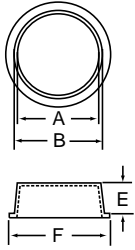
PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1794455	-2	0.56	14	0.27	7	0.58	15
1794456	-4	0.74	19	0.37	9	0.68	17
1794457	-6	0.83	21	0.33	8	0.71	10
1794458	-8	1.04	26	0.56	14	0.94	24
1794459	-12	1.31	33	0.63	16	1.04	26
7C7811	-16	0.72	18	0.81	21	0.31	8



Male NPTF Pipe - Non-Threaded

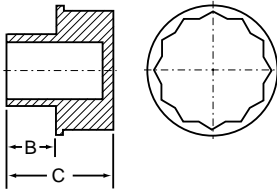
PART NUMBER	A THREAD DASH SIZE	A		B		C		D		E		F	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
8H6591	-2	0.42	11	0.48	12	0.36	9	0.42	11	0.38	10	0.63	16
6H3617	-4	0.53	14	0.61	15	0.47	12	0.55	14	0.44	11	0.75	19

Caps / Plugs



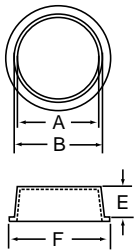
Female NPTF Pipe - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	A		B		C		D		E		F	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
0683126	-20	1.51	38	1.60	41	1.45	37	1.54	39	0.50	13	1.75	44
9U7089	-24	1.78	45	1.80	46	1.72	44	1.75	44	0.38	10	2.00	51
9U7090	-32	2.23	57	2.26	57	2.17	55	2.20	56	0.50	13	2.50	64



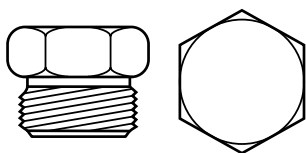
Female NPSM Pipe

PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1794455	-2	0.56	14	0.27	7	0.58	15
1794456	-4	0.74	19	0.37	9	0.68	17
1794457	-6	0.83	21	0.33	8	0.71	10
1794458	-8	1.04	26	0.56	14	0.94	24
1794459	-12	1.31	33	0.63	16	1.04	26
7C7811	-16	0.72	18	0.81	21	0.31	8



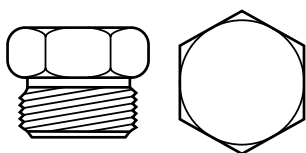
Female NPSM Pipe - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	A		B		C		D		E		F	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
0683126	-20	1.51	38	1.60	41	1.45	37	1.54	39	0.50	13	1.75	44
9U7089	-24	1.78	45	1.80	46	1.72	44	1.75	44	0.38	10	2.00	51
9U7090	-32	2.23	57	2.26	57	2.17	55	2.20	56	0.50	13	2.50	64



Straight Thread O-Ring Boss

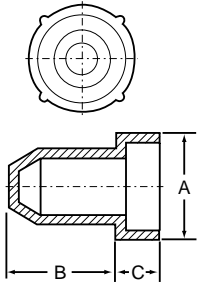
PART NUMBER	A THREAD DASH SIZE	A THREAD SIZE (in - TPI)	(in)	A (mm)
1794435	-4	7/16 - 20	0.47	12
1794437	-5	1/2 - 20	0.47	12
4C9521	-6	9/16 - 18	0.53	13
7C6466	-8	3/4 - 16	0.57	14
7C6465	-10	7/8 - 14	0.68	17
1794440	-12	1 1/16 - 12	0.75	19
1794442	-16	1 5/16 - 12	0.84	21
1794443	-20	1 5/8 - 12	0.91	23



JIC 37° Male

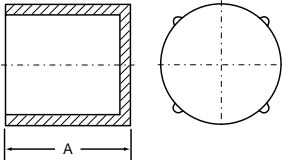
PART NUMBER	A THREAD DASH SIZE	A THREAD SIZE (in - TPI)	(in)	A (mm)
1794435	-4	7/16 - 20	0.47	12
1794437	-5	1/2 - 20	0.47	12
4C9521	-6	9/16 - 18	0.53	13
7C6466	-8	3/4 - 16	0.57	14
7C6465	-10	7/8 - 14	0.68	17
1794440	-12	1 1/16 - 12	0.75	19
1794442	-16	1 5/16 - 12	0.84	21
1794443	-20	1 5/8 - 12	0.91	23

Caps / Plugs



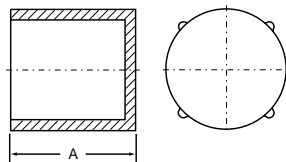
JIC 37° Female Swivel

PART NUMBER	A		(in)	A (mm)	B		C	
	THREAD DASH SIZE	THREAD SIZE (in - TPI)			(in)	(mm)	(in)	(mm)
1794467	-2	5/16 - 24	0.44	11	0.44	11	0.18	5
1794468	-3	3/8 - 24	0.46	12	0.50	13	0.18	5
1794523	-4	7/16 - 20	0.53	13	0.62	16	0.19	5
1794469	-5	1/2 - 20	0.53	13	0.68	17	0.25	6
1794470	-6	9/16 - 18	0.50	13	0.81	21	0.25	6
1251373	-8	3/4 - 16	0.75	19	0.94	24	0.25	6
1797380	-10	7/8 - 14	0.87	22	1.06	27	0.25	6
1794472	-12	1 1/16 - 12	0.89	23	1.25	32	0.25	6
1794474	-14	1 3/16 - 12	0.93	24	1.40	36	0.25	6
2P0470	-16	1 5/16 - 12	0.93	24	1.50	38	0.25	6
1794475	-20	1 5/8 - 12	0.93	24	2.00	51	0.25	6
1P0212	-24	1 7/8 - 12	1.15	29	2.31	59	0.31	8
1794476	-32	2 1/2 - 12	1.31	33	2.94	75	0.31	8



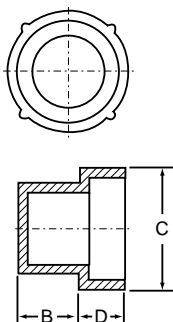
SAE 45° Male

PART NUMBER	A		(in)	A (mm)
	THREAD DASH SIZE	THREAD SIZE (in - TPI)		
1794435	-4	7/16 - 20	0.47	12
1794437	-5	1/2 - 20	0.47	12
1794438	-6	5/8 - 18	0.53	13
7C6466	-8	3/4 - 16	0.57	14
7C6465	-10	7/8 - 14	0.68	17
1794440	-12	1 1/16 - 12	0.75	19



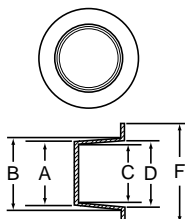
SAE 45° Male Inverted Swivel

PART NUMBER	A THREAD DASH SIZE	A THREAD SIZE (in - TPI)	(in)	A (mm)
1794434	-3	3/8 - 24	0.47	12
1794436	-4	7/16 - 41	0.30	8
1794437	-5	1/2 - 20	0.47	12
1794438	-6	5/8 - 18	0.41	10
6V1822	-8	3/4 - 16	0.57	14
7M7644	-10	7/8 - 18	0.44	11



SAE 45° Female Swivel

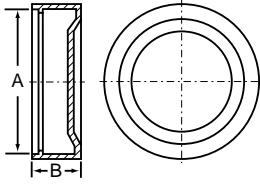
PART NUMBER	A THREAD DASH SIZE	A THREAD SIZE (in - TPI)	(in)	B (mm)	C (in)	(mm)	D (in)	(mm)
1794477	-3	3/8 - 24	0.25	6	0.50	13	0.19	5
1794478	-4	7/16 - 24	0.27	7	0.63	16	0.19	5
1794469	-5	1/2 - 20	0.53	13	0.68	17	0.25	6
1794479	-5	1/2 - 20	0.28	7	0.69	18	0.25	6
1794471	-6	5/8 - 18	0.59	15	0.81	21	0.25	6
1794480	-6	5/8 - 18	0.31	8	0.81	21	0.25	6
1251373	-8	3/4 - 16	0.75	19	0.94	24	0.25	6
1794481	-8	3/4 - 18	0.38	10	0.87	22	0.25	6
7M7644	-10	7/8 - 14	0.87	22	1.06	27	0.25	6
1794473	-12	1 1/16 - 14	1.12	28	1.31	33	0.25	6
1794482	-12	1 1/16 - 16	0.43	11	1.19	30	0.25	6



SAE 45° Female Swivel - Non-Threaded

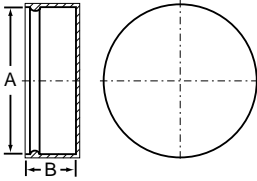
PART NUMBER	A THREAD DASH SIZE	A (in)	(mm)	B (in)	(mm)	C (in)	(mm)	D (in)	(mm)	E (in)	(mm)	F (in)	(mm)
1794503	-10	0.76	19	0.86	22	0.70	18	0.80	20	0.56	14	1.19	30

Caps / Plugs



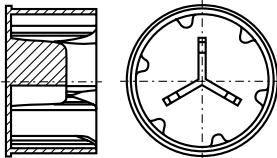
SAE Code 61 Flange

PART NUMBER	A FLANGE DASH SIZE	A		B	
		(in)	(mm)	(in)	(mm)
1794491	-8	1.19	30	0.39	10
1794492	-10	1.35	34	0.39	10
7J8813	-12	1.50	38	0.39	10
1794493	-16	1.75	44	0.44	11
1794494	-20	2.00	51	0.44	11
1794495	-24	2.38	60	0.44	11
1794496	-32	2.81	71	0.50	13
1794497	-40	3.31	84	0.50	13
1794498	-48	4.00	102	0.50	13



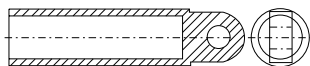
SAE Code 62 Flange

PART NUMBER	A FLANGE DASH SIZE	A		B	
		(in)	(mm)	(in)	(mm)
1794445	-8	1.46	37	0.56	14
1794450	-12	1.61	41	0.55	14
1794451	-16	1.86	47	0.58	15
1794452	-20	2.11	54	0.61	15
1794453	-24	2.49	63	0.69	18
1794454	-32	3.11	79	0.69	18



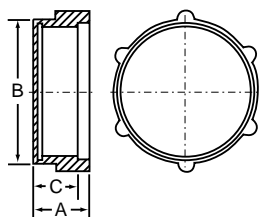
ORFS Female Swivel

PART NUMBER	A THREAD DASH SIZE	A	
		THREAD SIZE (in - TPI)	
1794524	-4	9/16 - 18	
1794525	-6	11/16 - 16	
1794526	-8	13/16 - 16	
1794527	-10	1 - 14	
1794528	-12	1 1/16 - 12	
1794529	-16	1 7/16 - 12	
1794530	-20	1 11/16 - 12	
1794531	-24	2 - 12	



Metric Standpipe - Light Series

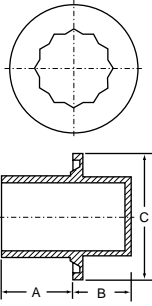
PART NUMBER	A THREAD DASH SIZE
1794512	-6
1794513	-8
1794514	-10
1794515	-12
1794516	-15
1794517	-18
1794518	-22
1794519	-28



Metric Male - 24° Cone - Light Series (DIN 20078)

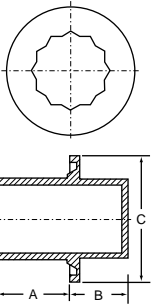
PART NUMBER	A THREAD DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
9U7146	-12	M12 x 1.5	0.47	12	0.62	16	0.37	10
9U7147	-14	M14 x 1.5	0.47	12	0.70	18	0.37	10
9U7148	-16	M16 x 1.5	0.47	12	0.78	20	0.37	10
9U7149	-18	M18 x 1.5	0.55	14	0.85	22	0.45	12
9U7150	-20	M20 x 1.5	0.55	14	0.93	24	0.37	10
9U7151	-22	M22 x 1.5	0.54	14	1.02	26	0.45	12
9U7152	-24	M24 x 1.5	0.55	14	1.14	29	0.45	12
9U7153	-26	M26 x 1.5	0.55	14	1.18	30	0.45	12
1794509	-36	M36 x 2.0	0.63	16	1.59	40	0.53	14
1794510	-42	M42 x 2.0	0.63	16	1.83	47	0.53	14
1794511	-52	M52 x 2.0	0.63	16	2.22	57	0.53	14

Caps / Plugs



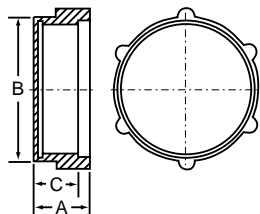
Metric Female Swivel - Spherical Seat - Light Series (DIN 20078)

PART NUMBER	A THREAD DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
1794483	-12	M12 x 1.5	0.41	10	0.34	9	0.73	19
1794484	-14	M14 x 1.5	0.41	10	0.38	10	0.81	21
9U7139	-16	M16 x 1.5	0.49	13	0.19	5	0.87	22
1794485	-18	M18 x 1.5	0.41	10	0.44	11	0.97	25
1794486	-22	M22 x 1.5	0.41	10	0.44	11	1.36	35
9U7144	-26	M26 x 1.5	0.54	14	0.19	5	1.29	33



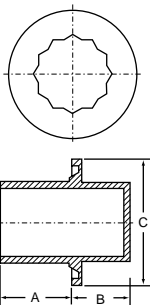
Metric Female Swivel - Spherical Seat With O-Ring - Light Series (DIN 20078)

PART NUMBER	A THREAD DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
1794483	-12	M12 x 1.5	0.41	10	0.34	9	0.73	19
1794484	-14	M14 x 1.5	0.41	10	0.38	10	0.81	21
9U7139	-16	M16 x 1.5	0.49	13	0.19	5	0.87	22
1794485	-18	M18 x 1.5	0.41	10	0.44	11	0.97	25
1794486	-22	M22 x 1.5	0.41	10	0.44	11	1.36	35
9U7144	-26	M26 x 1.5	0.54	14	0.19	5	1.29	33



Metric Male - 24° Cone - Heavy Series (DIN 20078)

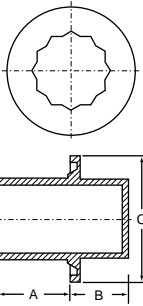
PART NUMBER	A THREAD DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
9U7146	-12	M12 x 1.5	0.47	12	0.62	16	0.37	10
9U7147	-14	M14 x 1.5	0.47	12	0.70	18	0.37	10
9U7148	-16	M16 x 1.5	0.47	12	0.78	20	0.37	10
9U7149	-18	M18 x 1.5	0.55	14	0.85	22	0.45	12
9U7150	-20	M20 x 1.5	0.55	14	0.93	24	0.37	10
9U7151	-22	M22 x 1.5	0.54	14	1.02	26	0.45	12
9U7152	-24	M24 x 1.5	0.55	14	1.14	29	0.45	12
9U7153	-26	M26 x 1.5	0.55	14	1.18	30	0.45	12
1794509	-36	M36 x 2.0	0.63	16	1.59	40	0.53	14
1794510	-42	M42 x 2.0	0.63	16	1.83	47	0.53	14
1794511	-52	M52 x 2.0	0.63	16	2.22	57	0.53	14



Metric Female Swivel - Spherical Seat - Heavy Series (DIN 20078)

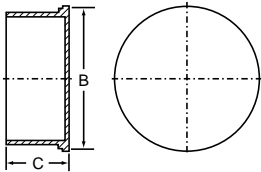
PART NUMBER	A THREAD DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
1794484	-14	M14 x 1.5	0.41	10	0.38	10	0.81	21
9U7139	-16	M16 x 1.5	0.49	13	0.19	5	0.87	22
1794485	-18	M18 x 1.5	0.41	10	0.44	11	0.97	25
9U7141	-20	M20 x 1.5	0.55	14	0.17	4	1.04	26
1794486	-22	M22 x 1.5	0.41	10	0.44	11	1.12	28
9U7143	-24	M24 x 1.5	0.54	14	0.19	5	1.23	31

Caps / Plugs



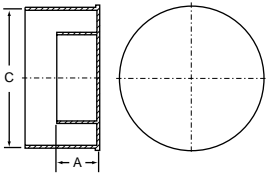
Metric Female Swivel - Spherical Seat With O-Ring - Heavy Series (DIN 20078)

PART NUMBER	A THREAD DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
1794484	-14	M14 x 1.5	0.41	10	0.38	10	0.81	21
9U7139	-16	M16 x 1.5	0.49	13	0.19	5	0.87	22
1794485	-18	M18 x 1.5	0.41	10	0.44	11	0.97	25
9U7141	-20	M20 x 1.5	0.55	14	0.17	4	1.04	26
1794486	-22	M22 x 1.5	0.41	10	0.44	11	1.12	28
9U7143	-24	M24 x 1.5	0.54	14	0.19	5	1.23	31



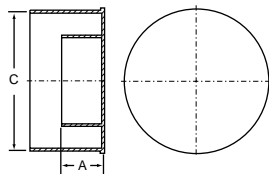
Metric Male - 24° Cone - Light Series (DIN 20078) - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	B		C	
		(in)	(mm)	(in)	(mm)
1794444	-30	1.23	31	0.56	14
1794489	-45	1.00	25	1.75	44



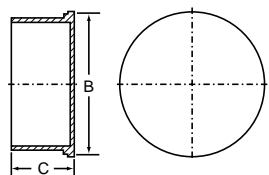
Metric Female Swivel - Spherical Seat - Light Series (DIN 20078) - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1797381	-30	1.00	25			1.62	41
1794448	-36	0.62	16	0.48	12	2.08	53
1794490	-45	0.88	22			2.25	57



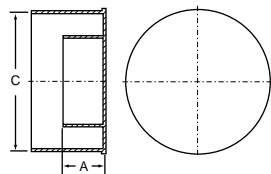
Metric Female Swivel - Spherical Seat With O-Ring - Light Series (DIN 20078) - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1797381	-30	1.00	25			1.62	41
1794448	-36	0.62	16	0.48	12	2.08	53
1794490	-45	0.88	22			2.25	57



Metric Male - 24° Cone - Heavy Series (DIN 20078) - Non-Threaded

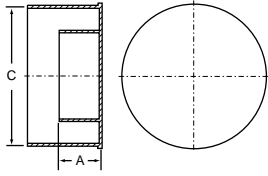
PART NUMBER	A THREAD DASH SIZE	B		C	
		(in)	(mm)	(in)	(mm)
1794444	-30	1.23	31	0.56	14
1794489	-45	1.00	25	1.75	44



Metric Female Swivel - Spherical Seat - Heavy Series (DIN 20078) - Non-Threaded

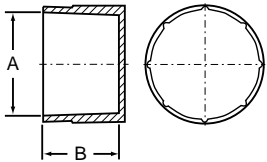
PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1797381	-30	1.00	25			1.63	41
1794448	-36	0.62	16	0.48	12	2.08	53
1794490	-42	0.88	22			2.25	57
1794447	-52	0.63	16			2.13	54

Caps / Plugs



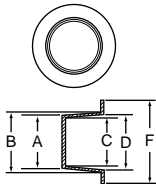
Metric Female Swivel - Spherical Seat With O-Ring - Heavy Series (DIN 20078) - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1797381	-30	1.00	25			1.63	41
1794448	-36	0.62	16	0.48	12	2.08	53
1794490	-42	0.88	22			2.25	57
1794447	-52	0.63	16			2.13	54



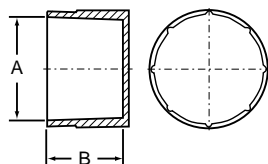
Male JIS 60° Cone

PART NUMBER	A JIS THREAD DASH SIZE	A		B	
		(in)	(mm)	(in)	(mm)
1794460	-6	0.68	17	0.50	13
1794461	-8	0.84	21	0.87	22
1794462	-12	1.05	27	0.91	23
1794463	-16	1.32	34	1.05	27



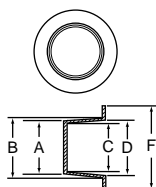
Male JIS 60° Cone - Non-Threaded

PART NUMBER	A JIS THREAD DASH SIZE	A		B		C		D		E		F	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
6H3617	-4	0.53	14	0.61	15	0.47	12	0.55	14	0.44	11	0.75	19
1794507	-10	1.18	30	1.28	33	1.12	28	1.23	31	0.63	16	1.67	42
1794506	-20	1.58	40	1.69	43	1.51	38	1.62	41	0.69	18	2.00	51



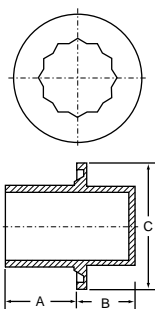
Male BSPP 60° Cone

PART NUMBER	A BSPP THREAD		A		B	
	DASH SIZE	(in)	(mm)	(in)	(mm)	
1794460	-6	0.68	17	0.50	13	
1794461	-8	0.84	21	0.87	22	
1794462	-12	1.05	27	0.91	23	
1794463	-16	1.32	34	1.05	27	



Male BSPP 60° Cone - Non-Threaded

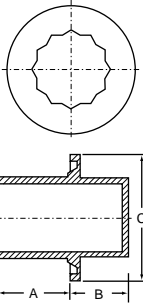
PART NUMBER	A BSPP THREAD		A		B		C		D		E		F	
	DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
6H3617	-4	0.53	14	0.61	15	0.47	12	0.55	14	0.44	11	0.75	19	
1794507	-10	1.18	30	1.28	33	1.12	28	1.23	31	0.63	16	1.67	42	
1794506	-20	1.58	40	1.69	43	1.51	38	1.62	41	0.69	18	2.00	51	



JIS/BSPP 60° Cone Female Swivel

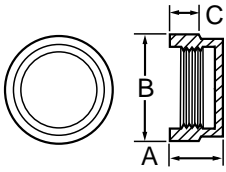
PART NUMBER	A JIS-BSPP THREAD		A		B		C	
	DASH SIZE	(in)	(mm)	(in)	(mm)	(in)	(mm)	
1794431	-4	0.36	9	0.33	8	0.73	18	
1794432	-6	0.36	9	0.33	8	0.89	23	
1794433	-8	0.43	11	0.44	11	1.04	26	
1794523	-10	0.45	11			0.99	25	
1794522	-12	0.44	11			1.24	32	
1794521	-16	0.45	11			1.48	37	

Caps / Plugs



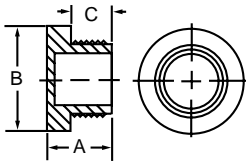
JIS/BSPP 60° Cone Female Swivel - Non-Threaded

PART NUMBER	A JIS-BSPP THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1794490	-20	0.88	22			2.25	57
1797382	-24	0.88	22			2.50	64



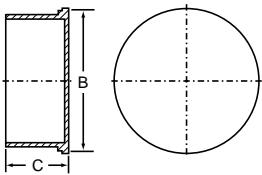
French Gaz Male

PART NUMBER	A THREAD DASH SIZE	A THREAD SIZE (in - TPI)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
9U7150	-20	M20 x 1.5	0.55	14	0.93	24	0.37	10
9U7152	-24	M24 x 1.5	0.55	14	1.14	29	0.45	12



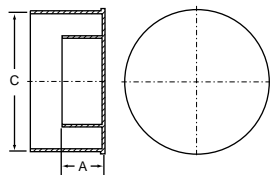
French Gaz Female Swivel

PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
9U7141	-20	0.72	18	1.04	26	0.55	14
9U7143	-24	0.73	19	1.23	31	0.54	14



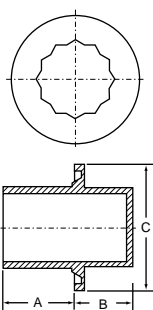
French Gaz Male - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	B		C	
		(in)	(mm)	(in)	(mm)
1794444	-30	1.23	31	0.56	14
1794446	-36	1.46	37	0.56	14
1794489	-45	1.75	44	1.00	25



French Gaz Female Swivel - Non-Threaded

PART NUMBER	A THREAD DASH SIZE	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
1797381	-30	1.00	25	1.62	41		
1794448	-36	1.10	28	2.08	53	0.48	12
1794508	-45	0.66	17	1.88	48	0.62	16



French Metric Female Swivel

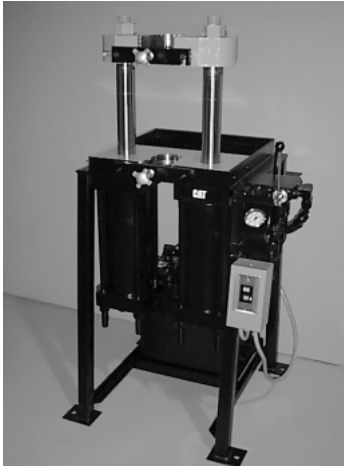
PART NUMBER	A THREAD DASH SIZE	A METRIC THREAD SIZE (dia x pitch)	A		B		C	
			(in)	(mm)	(in)	(mm)	(in)	(mm)
1794483	-12	M12 x 1.5	0.41	10	0.34	9	0.73	19
1794484	-14	M14 x 1.5	0.41	10	0.38	10	0.81	21
9U7139	-16	M16 x 1.5	0.49	13	0.19	5	0.87	22
1794485	-18	M18 x 1.5	0.41	10	0.44	11	0.97	25
9U1741	-20	M20 x 1.5	0.55	14	0.17	4	1.04	26
1794486	-22	M22 x 1.5	0.41	10	0.44	11	1.12	28

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How to Order a Cat Hose Machine and Related Tooling

1. Choose the Hose Machine that meets your needs.
2. Choose the power supply that matches your electrical and performance needs.
3. Choose the related tooling required.

Step 1 - Choose the Hose Machine you need.



139-5439 Combination Hose Machine

- Assembles/disassembles all sizes of XT hose reusable couplings
- Crimps all permanent couplings through 1.25" (-20)
- Crimputer option recommended

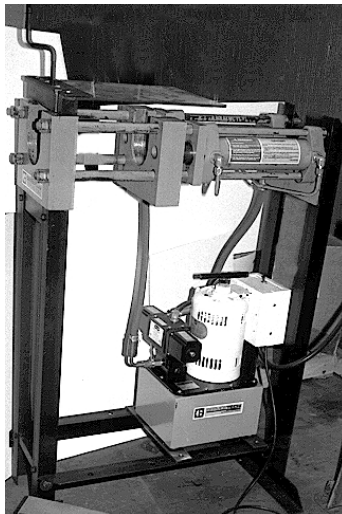
Go to [page 281](#)



145-5161 Floor Model Hose Machine

- Not for reusable couplings
- Crimps all permanent couplings through 2.0" (-32)
- Crimputer required

Go to [page 283](#)



150-2568 XT Hose Machine (Replaces 4C9900)

- Assembles/disassembles all sizes of XT hose reusable couplings
- Crimps some permanent couplings
- Tooling is also used on 6V4880, 1U9160, 173-9805 and 4C9900 XT Hose Machines
- 173-9805 is "CE"* version of 150-2568

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* The "CE" mark indicates compliance with applicable directives of the European Committee for Standards.

See [page 298](#) for crimp capabilities of various hose machines.

Current Hose Machines

Step 1 - Choose the Hose Machine you need.



152-3910 Light Weight Combination Hose Machine

- Assembles/disassembles all sizes of XT hose reusable couplings
- Crimps all permanent couplings through 1.25" (-20)
- Complete machine (as shown) weights 525 lbs.
- Primarily for use in hose vans in Europe or where lighter weight is required
- Must order individual groups to make 152-3910, NOT sold as 152-3910
- May be equipped with foot switch/solenoid control valve or manual valve
- Components are "CE"* compliant

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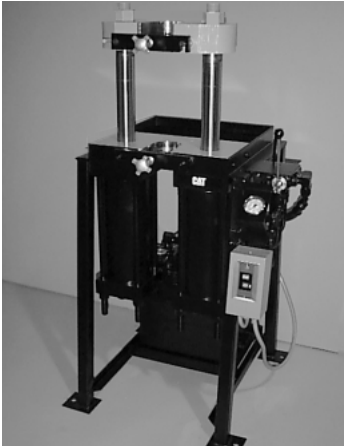
150-3622 Bench Model Hose Machine

- Crimps all permanent hose through 1.25" (-20)
- Uses same spacer rings as XT Hose Machines
- "CE"* marked hydraulic power supply available

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* The "CE" mark indicates compliance with applicable directives of the European Committee for Standards.

See [page 298](#) for crimp capabilities of various hose machines.



139-5439 / 145-3381 Combination Hose Machine

- Assembles/disassembles all sizes of XT hose reusable couplings
- Crimps most permanent couplings through 1.25" (-20)
- Crimputer option recommended

Note: An additional arrangement is available for mobile hose service vehicles. The 145-3381 machine weighs 855 lbs. (388 kilos) and is suitable for most vehicles. For complete information on mobile hose service vehicle tooling, contact your marketing organization or your Caterpillar Service Technology Group representative.

Step 2 - Choose the power supply you need. (Shipped without oil)

- 149-7359 115V, 60Hz 1 Phase
- 146-2460 220V, 50/60Hz 1 Phase
- 146-2461 230/460V, 60Hz 3 Phase
- 140-6241 220/380/440V, 50 Hz 3 Phase
- 149-2941 Hydraulic driven from vehicle

Note: Service with 10W Hydraulic Oil (HYDO)

Step 3 - Choose the related tooling required for crimping permanent couplings.

Step 3a: You must decide whether to equip your machine with the Caterpillar Crimputer. The Crimputer uses a step-by-step menu system to simplify the permanent coupling assembly process and eliminates the need for spacer rings. It features an integral digital caliper for measuring crimp diameters, and corrects for die wear.



To equip your 139-5439 Hose Machine with a crimputer, order the three part numbers below.

- 146-5861 Crimputer Group (includes calibration plate)
- 145-7327 Bracket Assembly
- 1U9484 Programming Cable

Current Hose Machines

Step 3b: Order one of the two lists below depending on whether you're ordering your machine with or without the 146-5861 Crimper Group.

With 146-5861 Crimper Group

- 139-5442 Die Bowl
- 141-4868 Pusher Assembly
- 167-1263 Extractor Assembly
- 134-1257 Extractor Tube
- 153-9129 Extractor Tube
- 145-7838 Pusher (Separator for 1028/1543)

To crimp 1.5" and 2.0" 716, 294 and 844 couplings, order the following parts:

- 133-9845 Die Bowl
- 140-6238 Pusher Assembly
- 147-2641 Potentiometer
- 146-5858 Extractor Assembly
- 146-5860 Extractor Tube
- 6V3538 Dowel (2 required)
- 147-2407 Plate

Without 146-5861 Crimper Group

- 136-3642 Crimp Tool Group
- 141-9718 Die Bowl
- 4C4375 Spring
- 4C4376 Snap Ring
- 140-9360 Ring
- 133-7362 Die Rest
- 135-4561 Die Separator
- 134-9572 Spacer Ring
- 134-9573 Spacer Ring
- 134-9574 Spacer Ring
- 134-9575 Spacer Ring
- 134-9576 Spacer Ring
- 134-9577 Spacer Ring
- 134-9580 Spacer Ring

Note: Order NEEG2737-02 Die and Spacer Ring Selection chart for proper tooling selection.

Step 3c: Choose the die groups you need from the selection below.

Dash#	Type									
	294	716	844	XT3	XT5	XT6	1028	1543	1956	2760
-3							4C3668			
-4	130-2185	130-2185					4C3669			144-4379
-5	130-2186						4C3671			144-4380
-6	130-2187	130-2187		130-5381		130-5388	4C3672	4C3675	129-9183	144-4381
-8	130-2188	130-2188		130-5382		130-5389	4C3673	4C3676	129-9184	144-4382
-10	130-2189	130-2189		130-5383					129-9185	
-12	130-2190	130-2190	130-2190	130-5384	130-5386	130-5390	4C3674	4C3677	129-9186	
-16	130-2191	130-2191	130-2191	130-5385	130-5387				129-9187	
-20	130-2192	130-2192	130-2192						129-9188	
-24	130-2194	130-2194	130-2194							
-32	130-2195	130-2195	130-2195							

Note: This table shows the die groups for the hose types and sizes that can be crimped using the 139-5439 Hose Machine. A complete listing of Caterpillar die groups is shown on page 17.

Step 4 - Order the related tooling to assemble XT hose reusable couplings.

- 138-4610 Accessory Group
- 4C9480 XT-5 and XT-6 Hose Tool Group
- 4C9902 XT-3 Hose Tool Group

Note: See [pages 293](#) for a complete list of part numbers included in each group

Reference Material

- NEHS0686 Tool Operating Manual: Combination Hose Machine
- NEHS0664 Tool Operating Manual: Crimping Caterpillar 294, 716, and 844 Hose and Couplings
- SEHS7957 Special Instruction: Assembly and Disassembly of XT Hose Reusable Couplings
- SEBF8176 Guideline for Reusable Parts and Salvage Operation: Reusable Couplings for Caterpillar XT-3, XT-5, and XT-6 Hose



145-5161 Floor Model Hose Machine

- Not for reusable couplings
- Crimps all permanent couplings through -2.0" (-32)
- Crimper required

Step 2 - Choose the power supply you need. (Shipped with oil)

- 147-4438 220V, 50Hz 1 Phase
- 147-4437 110/220V, 60Hz 1 Phase

Note: Service with 10W Hydraulic Oil (HYDO)

Step 3 - Purchase the related tooling required for crimping permanent couplings.

Step 3a: Order the two part numbers below for the Crimper.

- 146-5861 Crimper Group (includes calibration plate)
- 1U9484 Programming Cable



146-5861 Crimper Group

Step 3b: Order all the following part numbers.

- 131-3035 Die Bowl
- 133-9845 Die Bowl
- 134-1256 Extractor Plate
- 133-9888 Extractor Plate
- 134-1257 Extractor Tube
- 133-9847 Extractor Tube
- 136-7955 Tee (2 required)
- 145-7838 Pusher (Separator for 1028/1543 hose)
- 145-7836 Spacer (2 required) - for 1028/1543 hose

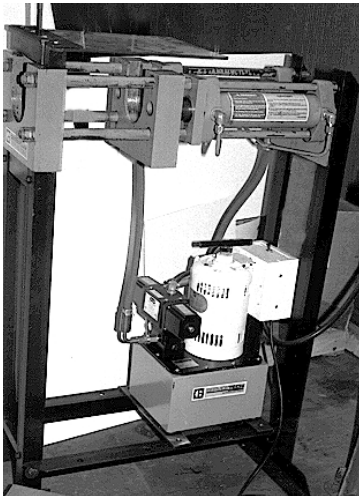
Reference Material

- NEHS0695 Tool Operating Manual: Floor Model Hose Machine (available soon)
- NEHS0664 Tool Operating Manual: Crimping Caterpillar 294, 716, and 844 Hose and Couplings

Current Hose Machines

Step 3c: Choose the die groups you need from the selection below.

Dash#	Type									
	294	716	844	XT3	XT5	XT6	1028	1543	1956	2760
-3							4C3668			
-4	130-2185	130-2185					4C3669			144-4379
-5	130-2186						4C3671			144-4380
-6	130-2187	130-2187		130-5381		130-5388	4C3672	4C3675	129-9183	144-4381
-8	130-2188	130-2188		130-5382		130-5389	4C3673	4C3676	129-9184	144-4382
-10	130-2189	130-2189		130-5383					129-9185	
-12	130-2190	130-2190	130-2190	130-5384	130-5386	130-5390	4C3674	4C3677	129-9186	
-16	130-2191	130-2191	130-2191	130-5385	130-5387				129-9187	
-20	130-2192	130-2192	130-2192						129-9188	
-24	130-2194	130-2194	130-2194						130-2561	
-32	130-2195	130-2195	130-2195						130-2562	



150-2568 / 173-9805 XT Hose Machines

- Assembles/disassembles all sizes of XT hose reusable couplings
- Crimps most permanent couplings through 1.0" (-16)
(See chart on pages 10 and 16)
- Tooling is also used on 4C9900, 6V4800, 1U9160 XT Hose Machines
- 173-9805 XT Hose Machine is for locations where "CE"* compliance is required

Step 2 - Choose the power supply you need, and order the parts to connect the power supply to the hose machine.

Step 2a: Order a power supply from the list below.

1/2 Horsepower

- 2P5550 115V, 50/60Hz
- 2P5500 230V, 50/60Hz

1 1/8 Horsepower

- 3S6224 115V, 50/60Hz
- 8S8033 230V, 50/60Hz

1 1/2 Horsepower

- 1U5555 115V, 50/60Hz
- 1U5565 230V, 50Hz
- 4C5080 230/115V, 60Hz
- 171-5397 230V, 50 Hz (CE)

(A foot switch is included only with the 1 1/2 HP pumps.)

Note: All pumps are single phase. 4C5080 features a quiet, low rpm induction motor.

Step 2b: Order the list of parts below to connect the power supply to the hose machine.

- | | |
|---------------------------------|-------------------------------|
| • 8F0024 Hose (2 required) | • 136-2061 Fitting |
| • 135-2535 Fitting (2 required) | • 136-2068 Fitting |
| • 135-2536 Fitting (2 required) | • 1P2375 Coupler (2 required) |
| • 136-2060 Fitting | • 1P2376 Coupler (2 required) |

Note 1: For "CE" machines, do not order 8F0024, 1P2375 or 1P2376. Order hose assembly 162-1410 (2).

Note 2: If you need a gauge, other fittings are required. Use only 10,000 psi rated fittings.

* The "CE" mark indicates compliance with applicable directives of the European Committee for Standards.

Current Hose Machines

Step 3 - Order the related tooling listed below to assemble XT hose reusable couplings.

- 138-4610 Accessory Group
- 4C9902 XT-3 Hose Tool Group
- 4C9480 XT-5 and XT-6 Hose Tool Group

Note: See [pages 293](#) for a complete list of part numbers included in each group.

Step 4 - Order the related tooling required for crimping permanent couplings.

Step 4a: Order the list of permanent coupling tooling listed below.

- 4C6601 Stand
- 140-9360 Ring
- 136-3642 Crimp Tool Group
- 133-7362 Die Rest
- 141-9718 Die Bowl
- 135-4561 Die Separator
- 4C4375 Spring
- 4C4376 Snap Ring
- 134-9572, 134-9573, 134-9574, 134-9575, 134-9576, 134-9577 and 134-9580 Spacer Rings

Step 4b: Choose the die groups you need from the selection below.

Dash#	Type									
	294	716	844	XT3	XT5	XT6	1028	1543	1956	2760
-3							4C3668			
-4	130-2185	130-2185					4C3669			144-4379
-5	130-2186						4C3671			144-4380
-6	130-2187	130-2187		130-5381		130-5388	4C3672	4C3675	129-9183	144-4381
-8	130-2188	130-2188		130-5382		130-5389	4C3673	4C3676	129-9184	144-4382
-10	130-2189	130-2189		130-5383					129-9185	
-12	130-2190	130-2190	130-2190	130-5384	130-5386	130-5390	4C3674	4C3677	129-9186	
-16	130-2191	130-2191	130-2191							
-20	130-2192	130-2192	130-2192							

Note: This table shows the die groups for the hose types and sizes that can be crimped using the 150-2568 hose machine. A complete listing of Caterpillar die groups is shown on [page 301](#).

Reference Material

- NEEG2737 Die and Spacer Ring Selection Chart
- NEEG2746 Crimp Diameter Chart
- NEHS0664 Tool Operating Manual: Crimping Caterpillar 294, 716, and 844 Hose and Couplings
- SEHS7957 Special Instruction: Assembly and Disassembly of XT Hose Reusable Couplings
- SEBF8176 Guideline for Reusable Parts and Salvage Operation: Reusable Couplings for Caterpillar XT-3, XT-5, and XT-6 Hose



150-3622 Bench Model Hose Machine

- Crimps all permanent hose through 1.25" (-20)
- Uses same spacer rings as XT Hose Machines
- “CE” marked hydraulic power supply available

Step 2 - Choose the power supply you need (shipped with oil).

- 161-5717 115V, 60 Hz 1 Phase
- 163-5309 230V, 50 Hz 1 Phase (CE)

Step 3 - Choose the related tooling you need

Step 3a: Order the required tooling below:

- 162-1410 Hose Assembly (1 Required)
- 123-9572, 134-9573, 134-9574, 134-9575, 134-9576, 134-9577, 134-9578, 134-9580, 134-2788 Spacer Rings
- 160-2275 Separator
- 157-6125 Stand (Optional)

Step 3b: Choose the die groups you need from the selection below:

Dash#	Type									
	294	716	844	XT3	XT5	XT6	1028	1543	1956	2760
-3							4C3668			
-4	130-2185	130-2185					4C3669			144-4379
-5	130-2186						4C3671			144-4380
-6	130-2187	130-2187		130-5381		130-5388	4C3672	4C3675	129-9183	144-4381
-8	130-2188	130-2188		130-5382		130-5389	4C3673	4C3676	129-9184	144-4382
-10	130-2189	130-2189		130-5383					129-9185	
-12	130-2190	130-2190	130-2190	130-5384	130-5386	130-5390	4C3674	4C3677	129-9186	
-16	130-2191	130-2191	130-2191						129-9187	
-20	130-2192	130-2192	130-2192						129-9188	

Current Hose Machines



152-3910 Light Weight Combination Hose Machine

- Assembles/disassembles all sizes of XT hose reusable couplings
- Crimps all permanent couplings through 1.25" (-20)
- Complete machine (as shown) weights 525 lbs.
- Primarily for use in hose vans in Europe or where lighter weight is required
- May be equipped with foot switch/solenoid control valve or manual valve
- Components are "CE"* compliant
- **Must order individual groups to make 152-3910, NOT sold as 152-3910**

This machine is sold by various groups and parts so that it may be adapted to the users individual situation – usually in a mobile shop (hose van).

Step 2 - Order the parts and groups to build a machine for your needs. List below is for Europe.

- 168-8556 Cylinder Group
- 155-8532 Hydraulic Power Supply 230V, 50 Hz, 1 Phase (CE)
- 165-4215 Valve Group (Solenoid operated directional valve with foot switch
OR
- 165-4214 Valve (Manual control directional valve)
- 168-8557 Hose Group (Includes hoses to connect to alves, pressure gage, valve mounting block)
- 152-3914 Frame Assembly (optional)

Note: When above part numbers are assembled, machine is 152-3910.

Step 3 - Order the tooling you need to crimp permanent couplings.

- 146-5861 Crimputer Group
- Programming Cable

Step 3a: To mount the crimputer as shown above, order the following:

- 166-8043 Bracket Assembly
- 141-4868 Bracket Group
- 4C6521 Stop Collar

* The "CE" mark indicates compliance with applicable directives of the European Committee for Standards.

Current Hose Machines

Step 3b: To crimp permanent couplings through 1.25 inch (-20), order the tooling below:

- 139-5442 Die Bowl
- 134-1257 Extractor Tube
- 141-4868 Pusher Assembly
- 153-9129 Extractor Tube
- 167-1263 Extractor Assembly
- 145-7838 Pusher (Separator for 1028/1543)

To crimp 1.5" and 2.0" 716, 294, and 844 couplings, order the following parts:

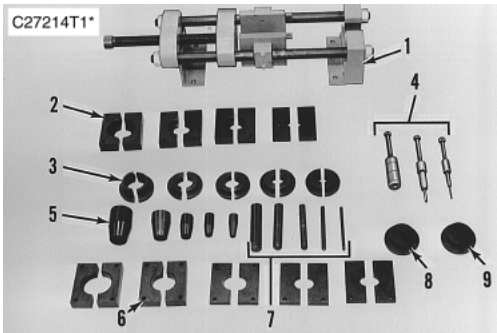
- 133-9845 Die Bowl
- 6V3438 Dowel (2)
- 140-6238 Pusher Assembly
- 147-2641 Potentiometer
- 146-5858 Extractor Assembly
- 147-2407 Plate
- 146-5860 Extractor Tube

Step 3c: Order the die groups you need (see list for 139-5439 Hose Machine)

Step 4 - Order the related tooling to assemble XT hose reusable couplings

- 138-4610 Accessory Group
- 4C9480 XT-5 and XT-6 Hose Tool Group
- 4C9902 XT-3 Hose Tool Group

Current Hose Machines



5P4180 Field Service Hose Machine

- For XT-3 hose and reusable couplings through 1.25" (-20)
- Not for XT-5 or XT-6 hose and couplings
- Not for permanent couplings
- Replacement parts sold separately

Power Supply

- 1U5230 Hydraulic Hand Pump (sold separately)

- | | |
|--|--------------------------------------|
| 1. Press Frame | 7. 5S2808 Pusher, Stem, 3/8" |
| 2. 5P0968 Collet, Stem, 1 1/4" (2 required) | 5S2814 Pusher, Stem, 1/2" |
| 5P0967 Collet, Stem, 1" (2 required) | 5S2826 Pusher, Stem, 3/4" |
| 5P0966 Collet, Stem, 3/4" (2 required) | 5S2834 Pusher, Stem, 1" |
| 5P0965 Collet, Stem, 3/8" and 1/2" (2 required) | 5S2840 Pusher, Stem, 1 1/4" |
| 6V9071 Collet, Stem, 3/8" (2 required) - not shown | 8. 5P0283 Rear Abutment through hose |
| 3. 5P0268 Collet, Hose, 3/8" (2 required) | 5P0284 Rear Abutment |
| 5P0269 Collet, Hose, 1/2" (2 required) | Not Shown |
| 5P0271 Collet, Hose, 3/4" (2 required) | 1U7541 30 Ton Hydraulic Ram |
| 5P0272 Collet, Hose, 1" (2 required) | 1U7860 Chain Wrench |
| 5P0273 Collet, Hose, 1 1/4" (2 required) | 1U9124 Protractor |
| 4. 5P5232 Stem Expander As., 3/8" , 3/4" | 4C4379 Support Plate |
| 5P5233 Stem Expander As., 1/2" , 1" | 7S1126 Skiving Group |
| 5P5234 Stem Expander As., 1 1/4" | 6V6022 Skiving Gage |
| 5. 5S2805 Finger Expander, 3/8" | |
| 5S2811 Finger Expander, 1/2" | |
| 5S2823 Finger Expander, 3/4" | |
| 5P0973 Finger Expander, 1" | |
| 5S2837 Finger Expander, 1 1/4" | |
| 6. 5P0278 Collet, Sleeve, 1 1/4" (2 required) | |
| 5P0279 Collet, Sleeve, 1" (2 required) | |
| 5P0280 Collet, Sleeve, 3/4" (2 required) | |
| 5P0281 Collet, Sleeve, 1/2" (2 required) | |
| 5P0282 Collet, Sleeve, 3/8" (2 required) | |

Reference Material

SEHS6834 Special Instruction

Non-Current Hose Machines

This section provides the serviceable parts for Caterpillar Non-Current Hose Machines



4C3660, 4C5052, 4C5053, 9U5792, and 9U7261 Hose Machines

- Not for reusable couplings
- Crimps all permanent couplings through 2.0" (-32)
- These machines are non-current. Replacement parts listed below.

Available Replacement Parts

- 4C4378 Adapter-Bowl Assembly
- 4C4375 Conical Spring
- 4C4376 Snap Ring
- 135-4561 Separator
- 133-7362 Die Rest for up to 1.25" (31.75 mm) I.D. Hose
- 133-7363 Die Rest for 1.5" (38.1 mm) and 2.0" (50.8 mm) I.D. Hose
- 4C3059 Guard
- 4C4373 Split Die Ring
- 134-9585, 134-9586, 134-9587, 134-9588, 134-9589, 134-9593 Spacer Rings for 294 and 844 0.25" (6.4 mm) to 1.25" (31.75 mm) I.D. Hose
- 135-4288, 135-4289, 135-4290, 135-4291 Spacer Plates for 294 and 844 1.5" (38.1 mm) and 2.0" (50.8 mm) I.D. Hose
- 4C4372 Die Ring for 1543

This table shows the die groups available for the hose types and sizes that can be crimped using the 4C3660, 4C5052, 4C5053, 9U5792, and 9U7261 Hose Machine. A complete listing of Caterpillar die groups is shown on [page 301](#).

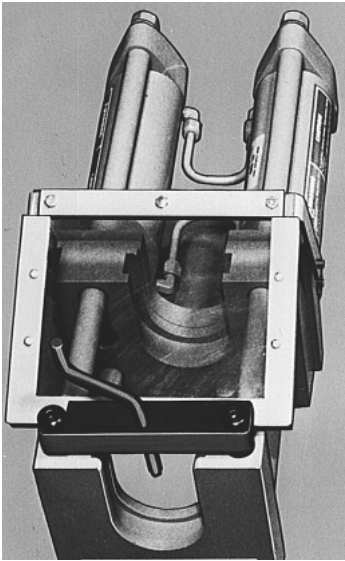
Dash#	Type									
	294	716	844	XT3	XT5	XT6	1028	1543	1956	2760
-3							4C3668			
-4	130-2185	130-2185					4C3669			144-4379
-5	130-2186						4C3671			144-4380
-6	130-2187	130-2187		130-5381		130-5388	4C3672	4C3675	129-9183	144-4381
-8	130-2188	130-2188		130-5382		130-5389	4C3673	4C3676	129-9184	144-4382
-10	130-2189	130-2189		130-5383					129-9185	
-12	130-2190	130-2190	130-2190	130-5384	130-5386	130-5390	4C3674	4C3677	129-9186	
-16	130-2191	130-2191	130-2191	130-5385	130-5387				129-9187	
-20	130-2192	130-2192	130-2192						129-9188	
-24	130-2194	130-2194	130-2194						130-2561	
-32	130-2195	130-2195	130-2195						130-2562	

Reference Material

- SEHS9052-01 Special Instruction: Use of the 9U5792, 4C5052 Hose Machines
- NEHS0664 Tool Operating Manual: Crimping Caterpillar 294, 716, and 844 Hose and Couplings
- NEEG2736-03 Hose, Die Group, and DVDT Selection Chart for 4C3660, 4C5052, 4C5053, 9U5792, and 9U7261 Hose Machines
- NEEG2746 Crimp Diameter Chart

Non-Current Hose Machines

This section provides the serviceable parts for Caterpillar Non-Current Hose Machines



7S1100 Hose Machine

- Assembles/disassembles all sizes of XT hose reusable couplings
- Crimps most permanent couplings through 1.0" (-16) (See chart below)
- These machines are non-current. Replacement parts listed below.

Available Replacement Parts

- 4C6601 Stand
- 5P5255 XT-5, XT-6 Reusable Coupling Tooling Group
- 1U7614 Plate (for use with -6 and -8 bent stem and large head couplings)
- 141-9718 Die Bowl
- 136-3635 Sleeve
- 8T5121 Plate
- 1V9646 Pusher
- 4C4375 Spring
- 133-7362 Die Rest
- 135-4561 Die Separator
- 4C4625 Die Ring for 1543
- 8T5125 Die Ring for 1028
- 134-9572, 134-9573, 134-9574, 134-9575, 134-9576, 134-9577 and 134-9580 Spacer Rings for 294 and 844 .25" (6.4 mm) through 1.00" (25.4 mm) I.D. Hose

Note: See [page 296](#) for a complete list of part numbers included in the 7S1100 Hose Machine Group. See [page 297](#) for a complete list of part numbers included in the 5P5255 Tooling Group.

This table shows the die groups available for the hose types and sizes that can be crimped using the 7S1100 hose machine. A complete listing of Caterpillar die groups is shown on [page 301](#).

Dash#	Type									
	294	716	844	XT3	XT5	XT6	1028	1543	1956	2760
	-3							4C3668		
-4	130-2185	130-2185					4C3669			144-4379
-5	130-2186						4C3671			144-4380
-6	130-2187	130-2187		130-5381		130-5388	4C3672	4C3675	129-9183	144-4381
-8	130-2188	130-2188		130-5382		130-5389	4C3673	4C3676	129-9184	144-4382
-10	130-2189	130-2189		130-5383					129-9185	
-12	130-2190	130-2190	130-2190	130-5384	130-5386	130-5390	4C3674	4C3677	129-9186	
-16	130-2191	130-2191	130-2191							

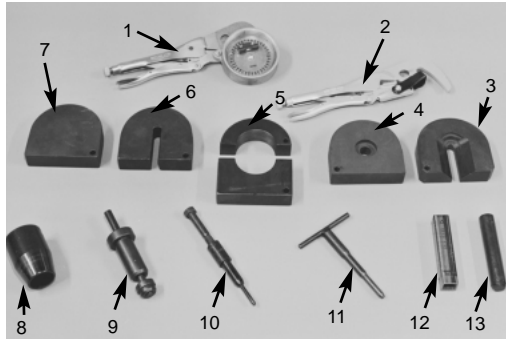
Replacement Power Supply: Pumps sold separately (Note: See [page 302](#) for pump options)

Reference Material

- SEHS6880-04 Special Instruction: Use of 7S1100 Hydraulic Press Arrangement - Reusable XT Hose Couplings Assembly and Disassembly
- SEHS8587-02 Special Instruction: Use of 7S1100 Hydraulic Press Machine - Permanent Hose Couplings Assembly.
- NEHS0664 Tool Operating Manual: Crimping Caterpillar 294, 716, and 844 Hose and Couplings
- NEEG2736-03 Hose, Die Group, and DVDT Selection Chart for 7S1100, 6V4900, 4C9900, and 150-2568 Hose Machines
- NEEG2746 Crimp Diameter Chart

Reusable Coupling Tooling Groups

This section provides the serviceable reusable coupling tooling group consist information. This information can be used to order individual parts or to determine if your tooling is current.



171-2531 Accessory Group

- Used with 139-5439, 145-3381, 152-3910 Combination Hose Machine and with 150-2568, 4C9900, 6V4880, 1U9160 and 173-9806 XT Hose Machine
- Replaces 4C9901 Accessory Group*
- May be ordered as individual parts

* To upgrade from the old 4C9901 group to the new 139-5439 group, order the 136-3603 Mandrel and the 136-3604 Pusher Assembly.

- | | | | | | |
|----|----------|---------------------------------|-----|----------|---------------------------------|
| 1. | 7S1125 | Protractor Group | 9. | 6V4961 | Mandrel, 3/4" |
| 2. | 7S1126 | Skiving Group (replaces 1U9159) | | 6V4962 | Pusher As., 3/4" |
| 3. | 4C6187 | Collet | | 6V4963 | Mandrel, 1" |
| | 4C6188 | Collet | | 6V4964 | Pusher As., 1" |
| | 8T3158 | Collet | | 8T3058 | Mandrel, 1 1/4" |
| 4. | 4C5887 | Collet, 3/8" | | 8T3059 | Pusher As., 1 1/4" |
| | 4C5888 | Collet, 1/2" | | 8T3060 | Mandrel, 1 1/2" |
| | 4C5889 | Collet, 3/4" | | 8T3061 | Pusher As., 1 1/2" |
| | 4C5890 | Collet, 1" | | 136-3603 | Mandrel, 2" |
| | 4C5891 | Collet, 1 1/4" | | 136-3604 | Pusher As., 2" |
| | 4C5892 | Collet, 1 1/2" | 10. | 5P5232 | Stem Expander As., 3/8" , 3/4" |
| | 4C5893 | Collet, 2" | | 5P5233 | Stem Expander As., 1/2" , 1" |
| 5. | 1U9673 | Collet, top, 3/8" , 1/2" | | 5P5234 | Stem Expander As., 1 1/4" |
| | 1U9674 | Collet, bottom, 3/8" , 1/2" | | 5P5235 | Stem Expander As., 1 1/2" |
| | 131-4367 | Collet, top, 3/4" | | 5P5236 | Stem Expander As., 2" |
| | 131-4368 | Collet, bottom, 3/4" | 11. | 7S5088 | Arbor As., 3/8" , 1/2" , 5/8" |
| | 1U9675 | Collet, top, 1" , 1 1/4" | | 5S2858 | Arbor As., 3/4" , 1" |
| | 1U9676 | Collet, bottom, 1" , 1 1/4" | | 5S2861 | Arbor As., 1 1/4" , 1 1/2" , 2" |
| | 1U9677 | Collet, top, 1 1/2" | 12. | 6V6022 | Skiving Gage |
| | 1U9678 | Collet, bottom, 1 1/2" | 13. | 5S2808 | Pusher, Stem, 3/8" |
| | 1U9679 | Collet, top, 2" | | 5S2814 | Pusher, Stem, 1/2" |
| | 1U9680 | Collet, bottom, 2" | | 5S2826 | Pusher, Stem, 3/4" |
| 6. | 6V4913 | Plate, Pusher Slotted | | 5S2834 | Pusher, Stem, 1" |
| 7. | 6V4912 | Plate, Pusher | | 5S2840 | Pusher, Stem, 1 1/4" |
| 8. | 5S2805 | Finger Expander, 3/8" | | 5S2846 | Pusher, Stem, 1 1/2" |
| | 5S2811 | Finger Expander, 1/2" | | 5S2852 | Pusher, Stem, 2" |
| | 5S2823 | Finger Expander, 3/4" | | | |
| | 5P0973 | Finger Expander, 1" | | | |
| | 5S2837 | Finger Expander, 1 1/4" | | | |
| | 5S2843 | Finger Expander, 1 1/2" | | | |
| | 5S2849 | Finger Expander, 2" | | | |

Note: 138-4610 Accessory Group is being replaced by 171-2531 Accessory Group (3rd Qtr. 1999). All part numbers are the same except as listed below. Old part numbers replaced by new.

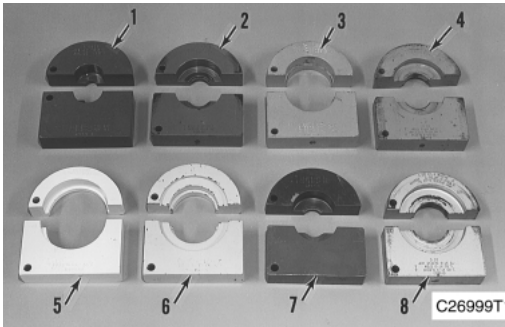
Name	Old Part No.	New Part No.	Size	Dash	XT-3	XT-5
Stem Expander	5P5232	170-5688	9.7 mm (0.38 in)	6	X	
Stem Expander	5P5233	170-5687	12.7 mm (0.50 in)	8	X	
Stem Expander	5P5232	170-5690	19.7 mm (0.75 in)	12	X	X
Stem Expander	5P5233	170-5689	25.4 mm (1.00 in)	16	X	X
Stem Expander	6V6022	178-7566	All	All		

Reference Material

SEHS7957 Special Instruction

Reusable Coupling Tooling Groups

This section provides the serviceable reusable coupling tooling group consist information. This information can be used to order individual parts or to determine if your tooling is current.



4C9902 XT-3 Hose Tool Group

- Used with 139-5439 Combination Hose Machine and 150-2568 XT Hose Machine
- May be ordered as individual parts

1. 6V4886 Collet, top, 3/8" , 3/4"
6V4887 Collet, bottom, 3/8" , 3/4"
2. 9U6743 Collet, top, 1/2" , 1"
9U6744 Collet, bottom, 1/2" , 1"
3. 6V4893 Collet, top, 1" , 1 1/2"
6V4894 Collet, bottom, 1" , 1 1/2"
4. 6V4891 Collet, top, 3/4" , 1 1/4"
6V4892 Collet, bottom, 3/4" , 1 1/4"
5. 6V4899 Collet, top, 2"
6V4901 Collet, bottom, 2"
6. 6V4897 Collet, top, 1 1/2"
6V4898 Collet, bottom, 1 1/2"
7. 6V4902 Collet, top, 3/8" , 1/2"
6V4903 Collet, bottom, 3/8" , 1/2"
8. 6V9069 Collet, top, 1 1/4" , 2"
6V9070 Collet, bottom, 1 1/4" , 2"

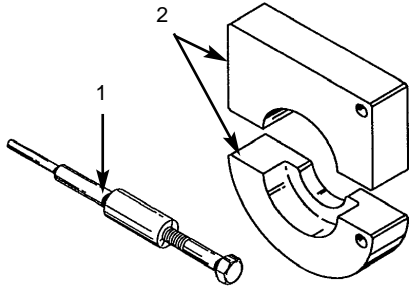
Reference Material

SEHS7957

Special Instruction

Reusable Coupling Tooling Groups

This section provides the serviceable reusable coupling tooling group consist information. This information can be used to order individual parts or to determine if your tooling is current.



171-2528 XT-5 and XT-6 Hose Tool Group

- Used with 139-5439, 145-3381, 152-3910 Combination Hose Machine and 150-2568, 4C9900, 6V4880, 1U9160 and 173-9806 XT Hose Machine
- Replaces canceled 4C9903 Tool Group
- 4C9480 Tool Group contains additional parts not in original 4C9903 group.

- To save money when upgrading from 4C9903 to 4C9480 group, utilize existing collets and purchase only 4C9422, 4C9423, 4C9433, 4C7474, 6V4926, 6V4927, 122-7321, 122-7322, and 126-1023.
- May be ordered as individual parts
- New collets are designed to better fit XT-5 and XT-6 hoses
- Collets are heat-treated for increased life and durability

1. 6V4835 Expander Assembly, Stem
6V4928 Expander Assembly, Stem
2. 4C9422 Collet, Top, 1 1/4" XT-6 Stem and Sleeve
4C9423 Collet, Bottom, 1 1/4" XT-6 Stem and Sleeve
4C9433 Collet, Top, 1 1/4" XT-5 and XT-6 Sleeve
4C9474 Collet, Bottom, 1 1/4" XT-5 and XT-6 Sleeve
6V4915 Collet, Top, 3/4" XT-5 Stem and Sleeve
6V4916 Collet, Bottom, 3/4" XT-5 Stem and Sleeve
6V4917 Collet, Top, 3/4" XT-6 Stem and 1" XT-5 Stem
6V4918 Collet, Bottom, 3/4" XT-6 Stem and 1" XT-5 Stem
6V4919 Collet, Top, 3/4" XT-5 Sleeve
6V4921 Collet, Bottom, 3/4" XT-5 Sleeve
6V4922 Collet, Top, 1" XT-6 Sleeve
6V4923 Collet, Bottom, 1" XT-6 Sleeve
6V4924 Collet, Top, 1 1/2" XT-5 Sleeve
6V4925 Collet, Bottom, 1 1/2" XT-5 Sleeve
6V4926 Collet, Top, 2" XT-5 Sleeve
6V4927 Collet, Bottom, 2" XT-5 Sleeve
8T0815 Collet, Top, 1" XT-5 Sleeve and 1 1/2" XT-5 Stem
8T0816 Collet, Bottom, 1" XT-5 Sleeve and 1 1/2" XT-5 Stem
122-7321 Collet, Top, 1 1/4" XT-5 Stem
122-7322 Collet, Bottom, 1 1/4" XT-5 Stem
3. 126-1023 Pusher, Stem, 2" XT-5

Note: 4C9480 XT-5 and XT-6 Hose Tool Group is being replace by 171-2528 (3rd Qtr. 1999). All part numbers are the same except as listed below. Old numbers replaced by new.

Name	Old Part No.	New Part No.	Size	Dash	XT-5	XT-6
Stem Expander		6V4972	50.8 mm (2.00 in)	32	X	
Stem Expander	6V4928	170-5683	19.7 mm (0.75 in)	12		X
Stem Expander	6V4835	170-5684	25.4 mm (1.00 in)	16		X

Reference Material

NEHS7957 Special Instruction

Reusable Coupling Tooling Groups

This section provides the serviceable reusable coupling tooling group consist information. This information can be used to order individual parts or to determine if your tooling is current.

Tooling for 7S1100 XT Hose Machine

The 7S1100 Tool Group originally included reusable coupling tooling. The group is not available but the reusable coupling tooling is available as separate parts.

- | | | | | | |
|----|--------|--|----|--------|---------------------------------|
| 1. | 4C5880 | Collet, 3/8" | 4. | 5S2864 | Plate |
| | 4C5881 | Collet, 1/2" | 5. | 5S2805 | Finger Expander, 3/8" |
| | 4C5882 | Collet, 3/4" | | 5S2811 | Finger Expander, 1/2" |
| | 4C5883 | Collet, 1" | | 5S2823 | Finger Expander, 3/4" |
| | 4C5884 | Collet, 1 1/4" | | 5P0973 | Finger Expander, 1" |
| | 4C5885 | Collet, 1 1/2" | | 5S2837 | Finger Expander, 1 1/4" |
| | 4C5886 | Collet, 2" | | 5S2843 | Finger Expander, 1 1/2" |
| 2. | 8S9489 | Grip Collet, Top, 3/8" 1/2" , 3/4" , and 1" | | 5S2849 | Finger Expander, 2" |
| | 8S9486 | Grip Collet, Bottom, 3/8" 1/2" , 3/4" , and 1" | 6. | 5P5232 | Stem Expander As., 3/8" , 3/4" |
| | 5P3532 | Grip Collet, Top, 1 1/4" , 1 1/2" , 2" | | 5P5233 | Stem Expander As., 1/2" , 1" |
| | 5P3533 | Grip Collet, Bottom, 1 1/4" , 1 1/2" , 2" | | 5P5234 | Stem Expander As., 1 1/4" |
| 3. | 8T0446 | Collet, Top | | 5P5235 | Stem Expander As., 1 1/2" |
| | 8T0445 | Collet, Bottom | | 5P5236 | Stem Expander As., 2" |
| | 9S4519 | Collet, Top | | 6V4928 | Stem Expander As., 3/4" XT-6 |
| | 9S4520 | Collet, Bottom | | 6V4835 | Stem Expander As., 1" XT-6 |
| | 9S4517 | Collet, Top | 7. | 5S2858 | Arbor As., 3/4" , 1" |
| | 9S4518 | Collet, Bottom | | 5S2861 | Arbor As., 1 1/4" , 1 1/2" , 2" |
| | 9S4515 | Collet, Top | 8. | 5S2808 | Pusher, Stem, 3/8" |
| | 9S4516 | Collet, Bottom | | 5S2814 | Pusher Stem, 1/2" |
| | 9S4513 | Collet, Top | | 5S2826 | Pusher, Stem, 3/4" |
| | 9S4514 | Collet, Bottom | | 5P2834 | Pusher, Stem, 1" |
| | 5S2838 | Collet, Top | | 5S2840 | Pusher, Stem, 1 1/4" |
| | 5S2839 | Collet, Bottom | | 5S2846 | Pusher, Stem, 1 1/2" |
| | 5S2844 | Collet, Top | | 5S2852 | Pusher, Stem, 2" |
| | 5S2845 | Collet, Bottom | | | |
| | 5S2850 | Collet, Top, 2" | | | |
| | 5S2851 | Collet, Bottom, 2" | | | |

Note: Dual size stem expanders are being replaced with single size expanders. Select expanders from the list below. (Available 3rd Qtr. 1999)

Name	Former Part No.	Part No.	Dash	Size
Stem Expander		5P5234	20	31.8 mm (1.25 in)
Stem Expander		5P5235	24	28.1 mm (1.50 in)
Stem Expander		5P3236	32	50.8 mm (2.00 in.)
Stem Expander	5P5232	170-5687	8	12.7 mm (0.50 in)
Stem Expander	6V4928	170-5683	12	19.7 mm (0.75 in)
Stem Expander	6V4835	170-5684	16	25.4 mm (1.00 in)
Stem Expander	5P5232	170-5688	6	9.7 mm (0.38 in)
Stem Expander	5P5233	170-5689	16	25.4 mm (1.00 in)
Stem Expander	5P5232	170-5690	12	19.7 mm (0.75 in)

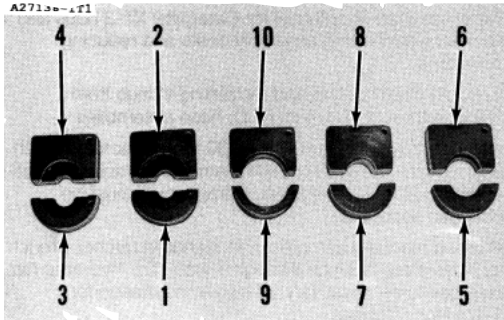
Reference Material

SEHS6880-04 Special Instruction

Note: Additional tooling for the 7S1100 XT Hose Machine is found on the next page.

Reusable Coupling Tooling Groups

This section provides the serviceable reusable coupling tooling group consist information. This information can be used to order individual parts or to determine if your tooling is current.



5P5255 Collet Group for XT-5 and XT-6 Hose

- Used with 7S1100 XT Hose Machine
- Also available as separate parts

1. 5P4780 Collet, Bottom, 3/4" Backup
2. 5P4781 Collet, Top, 3/4" Backup
3. 5P4782 Collet, Bottom, 1" Backup
4. 5P4783 Collet, Top, 1" Backup
5. 5P4784 Collet, Bottom, 3/4" Sleeve
6. 5P4785 Collet, Top, 3/4" Sleeve
7. 5P4786 Collet, Bottom, 1" Sleeve
8. 5P4796 Collet, Top, 1" Sleeve
9. 5P4797 Collet, Bottom, 1 1/2" Sleeve
10. 5P4798 Collet, Top, 1 1/2" Sleeve

Reference Material

SEHS6880-04 Special Instruction

Cat Hose Machine Capability for Permanent Couplings

- Bench Model 150-3622**

Shaded area indicates ability of hose machine to perform crimping operations.



Hose Type	Dash Size										
	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
716		Shaded		Shaded	Shaded	Shaded	Shaded	Shaded	Shaded		
294									Shaded		
844							Shaded	Shaded	Shaded		
1028	Shaded	Shaded	Shaded	Shaded	Shaded		Shaded				
2760		Shaded	Shaded	Shaded	Shaded						
1543				Shaded	Shaded		Shaded				
XT-3				Shaded	Shaded	Shaded	Shaded	Shaded			
1956				Shaded	Shaded	Shaded	Shaded	Shaded	Shaded		
XT-5							Shaded	Shaded			
XT-6				Shaded	Shaded		Shaded	Shaded			

- Floor Model 145-5161**

Shaded area indicates ability of hose machine to perform crimping operations.

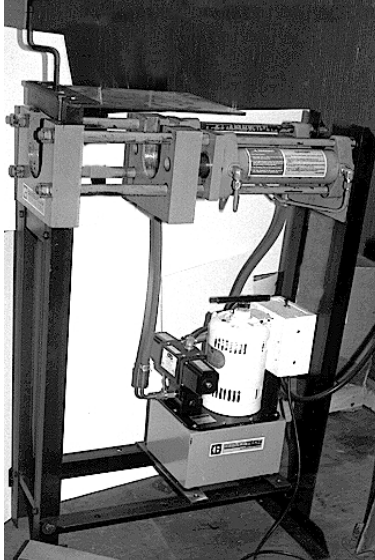


Hose Type	Dash Size										
	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
716		Shaded		Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
294										Shaded	Shaded
844								Shaded	Shaded	Shaded	Shaded
1028	Shaded	Shaded	Shaded	Shaded	Shaded		Shaded				
2760		Shaded	Shaded	Shaded	Shaded						
1543				Shaded	Shaded		Shaded				
XT-3				Shaded	Shaded	Shaded	Shaded				
1956				Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
XT-5							Shaded	Shaded			
XT-6				Shaded	Shaded		Shaded	Shaded			

Cat Hose Machine Capability for Permanent Couplings

- XT Hose 150-2568**

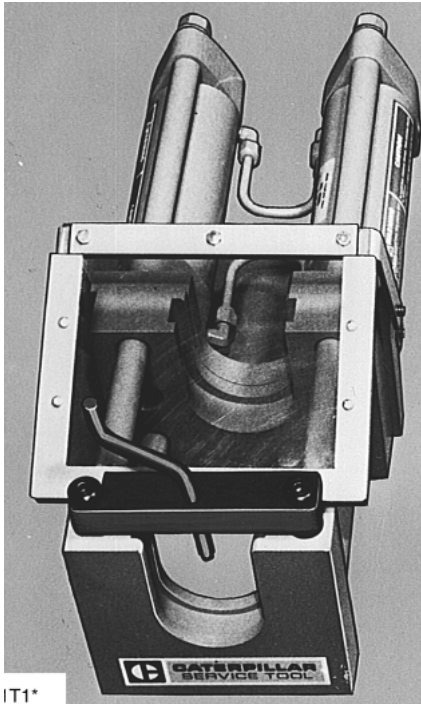
Shaded area indicates ability of hose machine to perform crimping operations.



Hose Type	Dash Size										
	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
716											
294											
844											
1028											
2760											
1543											
XT-3											
1956											
XT-5											
XT-6											

- Hose 7S1100**

Shaded area indicates ability of hose machine to perform crimping operations.



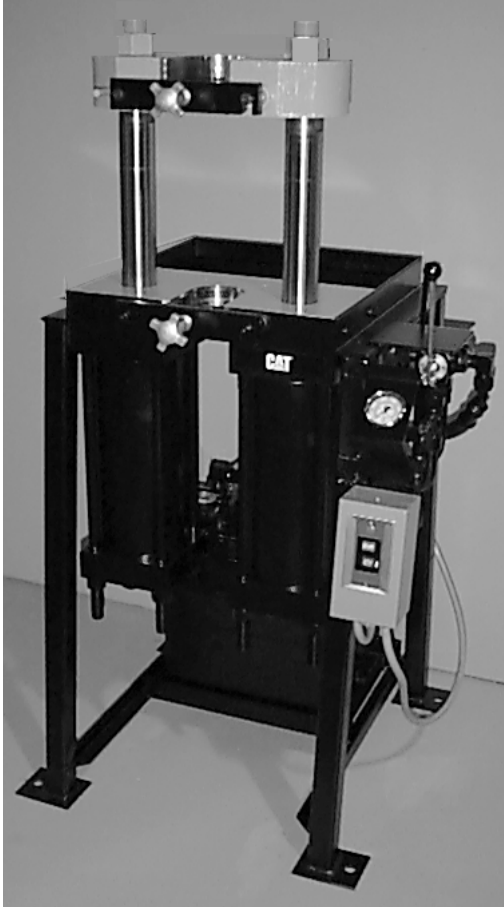
Hose Type	Dash Size										
	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
716											
294											
844											
1028											
2760											
1543											
XT-3											
1956											
XT-5											
XT-6											

IT1*

Cat Hose Machine Capability for Permanent Couplings

- **Combination 139-5439**

Shaded area indicates ability of hose machine to perform crimping operations.



Hose Type	Dash Size										
	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
716										*	*
294										*	*
844										*	*
1028											
2760											
1543											
XT-3											
1956											
XT-5											
XT-6											

*Note: The 139-5439 Combination Hose Machine will crimp all Caterpillar permanent couplings through 1.25" (.20). 716, 294 and 844 couplings through 2.0" (.32) can be crimped with a crimper and additional tooling.



Die Groups for Crimping Permanent Couplings

XT-3 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
130-5381	-6	.375	9.5
130-5382	-8	.500	12.7
130-5383	-10	.625	15.9
130-5384	-12	.750	19.1
130-5385	-16	1.000	25.4

XT-5 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
130-5386	-12	.750	19.1
130-5387	-16	1.000	25.4

XT-6 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
130-5388	-6	.375	9.5
130-5389	-8	.500	12.7
130-5390	-12	.750	19.1

1028 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
4C3668	-3	.188	4.8
4C3669	-4	.250	6.4
4C3671	-5	.312	7.9
4C3672	-6	.375	9.5
4C3673	-8	.500	12.7
4C3674	-12	.750	19.1

716, 294, 844 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
130-2185	-4	.250	6.4
130-2186	-5	.312	7.9
130-2187	-6	.375	9.5
130-2188	-8	.500	12.7
130-2189	-10	.625	15.9
130-2190	-12	.750	19.1
130-2191	-16	1.000	25.4
130-2192	-20	1.250	31.8
130-2194	-24	1.500	38.1
130-2195	-32	2.000	50.8

1543 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
4C3675	-6	.312	7.9
4C3676	-8	.406	10.3
4C3677	-12	.625	15.9

1956 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
129-9183	-6	.375	9.5
129-9184	-8	.500	12.7
129-9185	-10	.625	15.9
129-9186	-12	.750	19.1
129-9187	-16	1.000	25.4
129-9188	-20	1.250	31.8
130-2561	-24	1.500	38.1
130-2562	-32	2.000	50.8

2760 HOSE (INSIDE DIAMETER)

PART NO.	DASH SIZE	IN	MM
144-4379	-4	.250	6.4
144-4380	-5	.312	7.9
144-4381	-6	.375	9.5
144-4382	-8	.500	12.7

Miscellaneous Tooling



164-2691 Printer Group

- For use with 146-5861 Crimputer Group
- Prints original database and adjusted database
- Prints crimp data to document date, hose type, hose size, and crimp information (0, 1, 2, or 3 copies)
- Power supply is 110V, 60 Hz (supplied)

Order the following part numbers:

- 164-2691 Printer Group
 - Includes Printer (“CE”)
 - Ribbon (1)
 - 110V, 60 Hz power supply
 - Paper (1)
 - Supplier manual
- 164-2692 Cable Assembly

Available service parts:

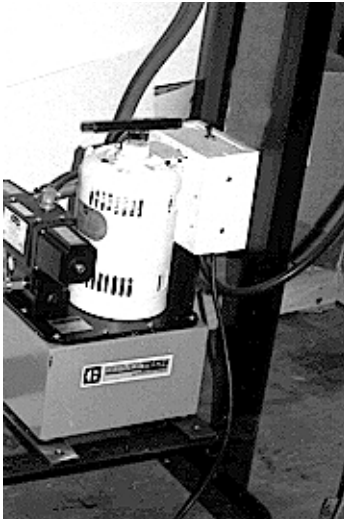
- 164-2693 Ribbon
- 164-2695 Power Supply (110/230V, 60/50 Hz, “CE”)

Purchase locally:

- Paper Roll (3 inches wide)

Also required: (Contact Caterpillar Service Technology)

- Form NEHS0725 Tool Operating Manual
- Crimputer Software Revision 1.10A or higher



Hydraulic Pumps

- Used with 150-2568, 4C9900, 6V4880, 1U6190, 7S1100 and 5S2801 Hose Machines
- 10,000 psi (70,000 kPa) operating pressure

Options Include:

- 1/2 Horsepower
 - 2P5550 115V, 50/60Hz
 - 2P5500 230V, 50/60Hz
- 1 1/8 Horsepower
 - 3S6224 115V, 50/60Hz
 - 8S8033 230V, 50/60Hz
- 1 1/2 Horsepower
 - 1U5555 115V, 50/60Hz
 - 1U5565 230V, 50Hz
 - 4C5080 230/115V, 60Hz

Following parts list is to connect the power supply to the hose machine:

- 8F0024 Hose (2 required)
- 135-2535 Fitting (2 required)
- 135-2536 Fitting (2 required)
- 136-2060 Fitting
- 136-2061 Fitting
- 136-2068 Fitting
- 1P2375 Coupler (2 required)
- 1P2376 Coupler (2 required)

Note: All pumps are single phase. 4C5080 features a quiet, low rpm induction motor. A foot switch is included only with the 1 1/2 HP pumps.

Miscellaneous Tooling



Hose Cutting Machines

- Designed to cut hose safely and efficiently
- Rated at 7.5 Horsepower
- Available for different electrical requirements

To order select the part number below that meets your electrical requirements.

3 Phase

- **6V6015** **230V, 60Hz** **3 Phase**

Note: The 6V6015 Hose Cutoff Machine can be modified to run on 50Hz and voltage up to 460V by changing the heaters and coil as shown in the chart below.

Optional Heaters and Coil for 6V6015

<u>Electrical Supply</u>	<u>Heater (1)</u>	<u>Coil</u>
230V, 60Hz, 3 Ph	(2)	(2)
230V, 50Hz, 3 Ph	6V6972	(2)
380V, 50Hz, 3 Ph	6V6974	6V7071
460V, 50Hz, 3 Ph or 415V, 50Hz, 3 Ph (3)	6V6971	6V7071
460V, 60Hz, 3 Ph	6V6973	6V7071

Note 1: Three required.

Note 2: Part originally equipped at factory.

Note 3: Single phase available as special order. Contact the Cat Service Technology Group for more information.

Single Phase

- **9U7319** **230V, 50Hz** **1 Phase**
- **9U7320** **230V, 60Hz** **1 Phase**

Replacement Parts for Hose Cutting Machines

- **4C9621** **Belt Set (for 6V6015)**
- **9U7321** **Belt Set (for 9U7319 and 9U7320)**
- **6V6016** **Cut-off Wheel**

Reference Material

SMHS8316 **Special Instruction**



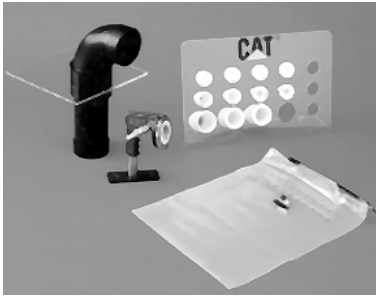
Hose Cutting Machine - Fume Exhaust Attachments

- Optional Accessory to exhaust fumes and draw dust and debris away from work area

6V6017 Fume Exhauster

- Attaches to 6V6015 and related hose cutting machines
- Exhausts fumes and draws dust and debris into cabinet base where it is trapped for later collection
- Ducting not included. For best results, use 5" (127 mm) diameter ducting with a maximum length of 20' (6 m).
- Wired for 220V, 60 Hz, 3 Phase

Miscellaneous Tooling



156-0058 Hose Cleaner Group

The 156-0058 Hose Cleaner Group is a faster and more effective way to clean hose, or complete hose assemblies. Caterpillar recommends the use of this tool to reduce hydraulic system contamination.

Note: The 156-0058 hose cleaner group is offered in addition to the 130-6061 group. The new group is designed specifically for the dealer hose assembly area and includes a stand for the projectile launcher (gun), a nozzle rack, and the catcher assembly and catcher bag kit. The new group no longer includes the carrying case with foam insert and has fewer nozzles to simplify nozzle and projectile selection.

To equip your hose assembly area with a 156-0058 hose cleaner group and related parts, follow the two steps below:

Step 1 - Order the 156-0058 Hose Cleaner Group.

The 156-0058 Hose Cleaner Group includes all of the parts listed below.

- 130-6062 Ring-Adapter
- 130-6068 Coupling As.
- 130-6069 Nozzle (6 mm)
- 130-6070 Nozzle (8 mm)
- 130-6071 Nozzle (10 mm)
- 130-6072 Nozzle (13 mm)
- 130-6073 Nozzle (16 mm)
- 130-6074 Nozzle (19 mm)
- 130-6075 Nozzle (25 mm)
- 130-6076 Nozzle (32 mm)
- 130-6091 Nozzle (38 mm)
- 130-6092 Nozzle (50 mm)
- 130-6097 Nozzle (38 mm)
- 130-6431 Catcher As.
- 130-6421 Catcher Bag Kit
- 156-0055 Rack-Nozzle Organizer
- 156-0050 Stand-Launcher

Step 2 - Order the projectiles for cleaning hose and hose assemblies from the list below.

Recommended projectiles are listed below along with package quantity information.

Part No.	Pkg. Qty.	Part No.	Pkg. Qty.
130-6105	100	130-6122	100
130-6107	100	130-6123	100
130-6110	100	130-6124	100
130-6111	100	130-6126	100
130-6114	100	130-6127	100
130-6116	100	130-6129	100
130-6117	50	130-6130	50
130-6118	40	130-6131	40
130-6119	30	130-6132	30
130-6120	20	130-6133	20
130-6121	15		

156-0058 Hose Cleaner Group

Application Chart for Hose Cleaning Nozzles and Projectiles

Hose Nozzles and Projectiles

Dash Size	Inch Size	mm Size	Nozzle Mfg. No.	Projectile Cat Part No.
-3	(.188)	5	N/A	N/A
-4	(.250)	6	H06	130-6105 or 130-6107
-5	(.312)	8	H08	130-6110
-6	(.375)	10	H10	130-6111
-8	(.500)	13	H13	130-6114
-10	(.625)	16	H16	130-6116
-12	(.750)	19	H19	130-6117
-16	(1.00)	25	H25	130-6118
-20	(1.25)	32	H32	130-6119
-24	(1.50)	38	H38	130-6120
-32	(2.00)	50	H50	130-6121

Note: Use the hose nozzles and projectiles for cleaning cut hose prior to assembly. Use the coupling nozzles and projectiles for cleaning finished hose assemblies.

Coupling Nozzles and Projectiles

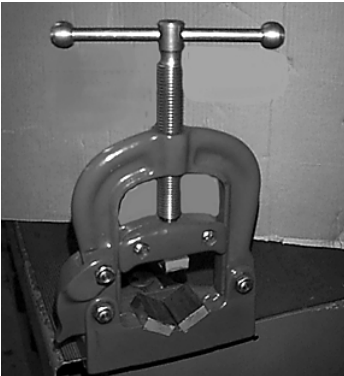
Dash Size	Inch Size	mm Size	Nozzle Mfg. No.	Projectile Cat Part No.
-3	(.188)	5	N/A	N/A
-4	(.250)	6	H06 or J06	130-6122
-5	(.312)	8	H06	130-6123
-6	(.375)	10	H08	130-6124
-8	(.500)	13	H10	130-6126
-10	(.625)	16	H13	130-6127
-12	(.750)	19	H16	130-6129
-16	(1.00)	25	H19	130-6130 or 130-6131
-20	(1.25)	32	H25	130-6131
-24	(1.50)	38	H32	130-6132
-32	(2.00)	50	J38/T38	130-6133

Note: The nozzle and projectile chart above applies to all coupling styles. For couplings that jump down in size, use the nozzle that fits the head size. For couplings that jump up in size, use the nozzle that fits the hose size.

Reference Material

NEHS0643 Tool Operating Manual

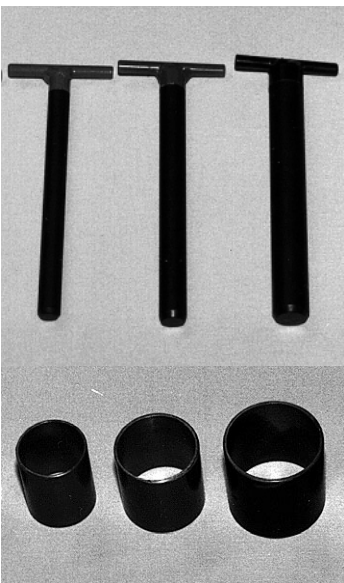
Miscellaneous Tooling



Skiving Vise

- Allows for easy skiving of hose
- Blocks have rubber pads to prevent damage to hose

Order:
127-1909 Vise
127-1910 Block Group



Skiving Tools for 1956 Hose

- Arbors provide support inside hose when using vise for skiving.
- Guides are manufactured to the correct skiving length and provide a guide for the skiving tool.

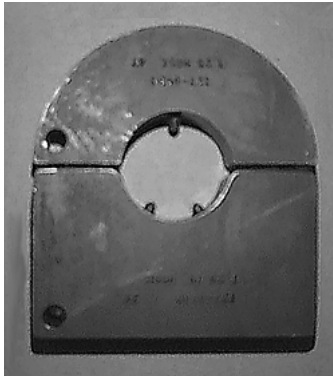
Arbor Part No.	Guide Part No.	Size
135-3688	133-7353	-6
135-3689	133-7355	-8
135-3690	133-7356	-10
135-3691	133-7357	-12
135-3692	133-7358	-16
135-3693	133-7359	-20
135-3694	133-7360	-24
135-3695	133-7361	-32



1U8760 Chain Wrench

- Used during the disassembly of XT hose reusable couplings to break the bond between the hose and coupling
- Can also be used for other gripping applications for diameters from 3/4" (19.05 mm) through 3 1/4" (82.55 mm)

Order part number 1U8760



XT Hose Reclamation Tooling

- The 131-3961 Tool Group is used to remove XT hose reusable couplings from XT hose assemblies
- Setscrews grip hose for easy removal
- Available for 3/4" (-12) through 2" (-32) hose
- Can be ordered as a group or separate parts

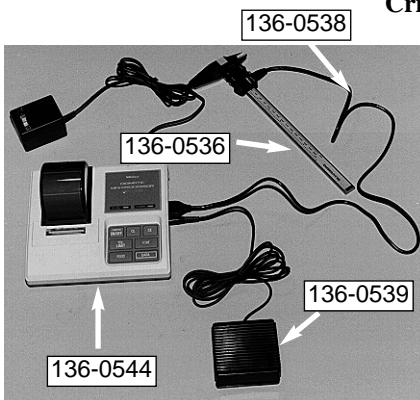
Separate parts available for 131-3961 Tool Group are:

8C3996	Setscrew-socket (3 required per collet set)
127-9924	Collet, Top (.75")
127-9926	Collet, Bottom
127-9928	Collet, Top (.1.0")
127-9929	Collet, Bottom
127-9930	Collet, Top (1.25")
127-9931	Collet, Bottom
127-9933	Collet, Top (1.5")
127-9934	Collet, Bottom
127-9936	Collet, Top (2.0")
127-9937	Collet, Bottom

Crimp Measuring Tools and Accessories

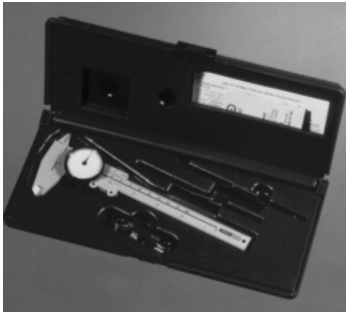
- 136-0536 Digital Caliper is used for measuring crimp diameters to ensure they meet specifications
- 136-0544 Mini Processor, when connected to the digital caliper via the 136-0538 Cable, can be used to record crimp diameter measurements and provide a paper record
- 136-0539 Foot Switch is an option for entering data

Crimp Measuring Tools, Accessories and Consumables (Must be ordered separately)



136-0536	Digital Caliper
136-0544	Mini Processor
136-0538	Cable to Attach to Caliper
136-0539	Foot Switch
9U6690	Replacement Ribbon
136-0543	Paper

Miscellaneous Tooling

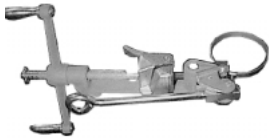


8T0450 Thread Measurement Kit

- Allows for measurement and identification of coupling
- Includes PEGP2007-01 Coupling Identification Guide
- Recommended for all dealer hose assembly areas

8T0450 Thread Measurement Kit includes:

8T0477	Dial Caliper
8T0448	Pitch Gauge
8T0449	Seat Angle Gauge (45 and 37 degree)
8T0451	Seat Angle Gauge (30 and 12 degree)
PEGP2007-01	Coupling Identification Guide



166-5853 Nylon Abrasion Sleeve Band Tool

- The 166-5853 Bandking Tool is used to secure protective covers to hydraulic hose using the following bands:

163-8811	34.9 mm I.D.
163-8812	50.8 mm I.D.
163-8813	76.2 mm I.D.
163-8814	101.6 mm I.D.

Misc. Sales Aids

HOSE & COUPLINGS	MEDIA NO.
Bin Labels for Cat Hose Couplings (XT-3, XT-5 and XT-6 Hose Couplings) (716, 294, and 844 Hose Couplings) (556, 1028, 1130 and 1543 Hose Couplings) (1956 Hose Couplings) (2760 Hose Couplings)	PEEP1003-02 PEEP1004-02 PEEP6044 PEEP6043 PEXP8025
Reusable Coupling Labels – Large (3 1/2" x 2") (English, package of 250) (Spanish, package of 250) (Dutch, package of 50) (German, package of 50)	PEEP7210-01 PSEP7210-01 PDEP7210-01 PGEP7210-01
Reusable Coupling Labels – Small (1 7/8" x 1") (English, package of 250) (Spanish, package of 250) (Dutch, package of 50) (German, package of 50)	PEEP3214-01 PSEP3214-01 PDEP3214-01 PGEP3214-01
Cat Hose & Couplings Poster	PEPP7026
XT Connection (video tape)	(English) PEVN8006 (Spanish) PSVN8006 (PAL Format) PEVP8006
XT-3 ES Counter Display	PEWP9739
XT-3 ES Counter Display – Graphic only	PEWP9740
Improving XT Hose & Coupling Recovery video tape	(VHS) PEVN4328 (PAL) PEVP4328

Data Sheets/Forms

HOSE & COUPLINGS	MEDIA NO.
XT Hose & Couplings Conversion Worksheet	(English) PEEP5210-02 (Spanish) PSEP5210-01
DIN 4-Wire Spiral Hose & Couplings Data Sheet	(English) PEHP5034
Reusable Couplings for XT Hose Data Sheet	(English) PEHP6033 (Spanish) PSHP6033
Caterpillar Hose and Coupling Data Sheet	PEHP6035
Caterpillar 716, 294, and 844 Hose & Coupling Data Sheet	PEHP7028
XT-3 EX Hose	PEHP9519

Technical Hose & Coupling Reference Material

LITERATURE	MEDIA NO.
Hose & Couplings Training Package	(video & workbook) PEVN3808 (workbook only) PEGT6025
Caterpillar Hose Assembly Fabrication Guide	(paper) SEBD2081 (microfiche) SBFY0604 (monthly tape) SBFY0679 (monthly tape for dealers outside North American) SBFY0681
Caterpillar Coupling Identification Guide	PEGP2007-01
Caterpillar Coupling Identification Poster	PEWP4128
Caterpillar XT Hose Assembly Poster	(English) PEWP3013-01 (Spanish) PSWP3013-00
Caterpillar Hydraulic Hose Assembly Tools Catalog	NENG7001-01

Reference Material

Technical Hose & Coupling Reference Material (continued)

SPECIAL INSTRUCTIONS	MEDIA NO.
Use of 7S1100 Hydraulic Press Arrangement (Special Instruction)	SEHS6880-04
Use of 4C9900 Hydraulic Hose Service Press (Special Instruction)	SEHS7957-06
Use of 8T5120 and 8T5130 Crimp Tool Groups In Either 7S1100 Press Arrangement or 4C9900, 1V9160, and 6V4880 Hydraulic Hose Service Press (Special Instruction)	SEHS8587-02
New Style Hose Press Stand (Tool Announcement)	NEHG3599
Use of the 9U5792, 4C5052, 4C5054, 4C3670 and 4C3680 Hydraulic Hose Presses (Special Instruction)	SEHS9052-02
Hoses, Tubing, Couplings and Fittings	SEBV0506
Reusable Couplings for Caterpillar XT-3, XT-5, and XT-6 Hose (Guideline for Reusable Parts and Salvage Operation)	SEBF8176
Crimping Caterpillar 1E1956 Hose & Couplings (Tool Operating Manual)	NEHS0646
Crimping Caterpillar 1E294, 1E716, and 1E844 Hose & Couplings (Tool Operating Manual)	NEHS0664
Using the 130-6061 Hose Cleaner Group (Tool Operating Manual)	NEHS0643
Hose, Die Group, and DVDT Selection Chart for 4C3660, 4C5052, 4C5053, 9U5792, and 9U7261 Hydraulic Hose Machines	NEEG2736-02
Hose, Die Group, and DVDT Selection Chart for 7S1100, 150-2568 and 6V4900 Hydraulic Hose Machine Arrangements	NEEG2737-02
Crimp Diameter Chart	NEEG2746
Tool Operating Manual - Combination Hose Machine	NEHS0686
Tool Operating Manual - Floor Model Hose Machine	NEHS0695
Tool Operating Manual - Nylon Abrasion Sleeve Band Tool	NEHS0727

Technical Hose & Coupling Reference Material (continued)

IRM's	FORM NO.
Parts Consumption List Hose Assembly Breakdown (IRM XT 89-2)	PELM0123
Hose Conversions: E-Family Excavators (IRM HOS 90-1)	PELM0176
ORFS Couplings for XT-5 Hose (IRM HOS 90-2)	PELM0177
3/8", 3/4" and 1" XT-6 Hose/Couplings (IRM HOS 90-3)	PELM0171
Cat Hose & Couplings Conversion: Komatsu PC200-3 (IRM HOS 90-4)	PELM0183
Hose Assembly Fabrication Guide (IRM HOS 90-5)	PELM0199
Air Conditioning Hose and Coupling Announcement (IRM HOS 90-6)	PELM0203
JIS Threaded Hose Couplings for MHI & E Family Excavators (IRM HOS 91-1)	PELM0240
XT Hose Captive Flange Couplings (IRM HOS 91-3)	PELM0254
Cancelled Collet-type Reusable Couplings (IRM HOS 91-4)	PELM0263
Hose Assemblies Containing More Than Three Couplings (IRM HOS 91-5)	PELM0272
Low/Med Pressure Hose Consists for MHI & E Family Excavators (IRM HOS 91-7)	PELM0274
Hose Assembly Consists for 205 through 214 and 224 Model Excavators (IRM HOS 92-1)	PELM0325
1/2" XT-6 Hose & Permanent Couplings (IRM HOS 92-2)	PELM0336
3/4" AND 1" XT-5 Permanent Couplings (IRM HOS 92-3)	PELM0337
2" Reusable Couplings, Hose and Tooling-XT-5 Hose (IRM HOS 93-1)	PELM0382
1" Permanent Couplings for XT-3 Hose (IRM HOS 93-2)	PELM0391
Cat Hose & Coupling conversion for BARBER-GREENE (IRM HOS 95-1)	PELM0554
Caterpillar Hose Branch Packs Addendum (IRM HOS 95-2A)	PELM0596
Caterpillar Hose Assembly System; Use & Application (IRM HOS 95-3)	PELM0591
Caterpillar ORFS Female Swivel Permanent Couplings for XT-3 Hose (IRM HOS 96-1)	PELM0622
New High Pressure Caterpillar 1956 Hose & Couplings (DIN 20023 4SP) (IRM HOS 96-2)	PELM0626
New Caterpillar Low and Medium Pressure Hose and Couplings: One Wire Braid (716); Two Wire Braid (294); Hydraulic Suction (844). (IRM HOS 96-3)	PELM0641
New Hose Cleaner Group 130-6061 (IRM HOS 96-4)	PELM0654
Coupling Reclamation Tooling for XT Hose Assemblies (IRM HOS 96-5)	PELM0680
New Hose Cleaner Group 156-0058 (IRM HOS 98-1)	PELM0784
New Caterpillar Couplings for Low/Medium Pressure (716/294/844) Hose (IRM HOS 98-2)	PELM0802
Caterpillar 2760 Reduced Outside Diameter Thermoplastic Hose and Couplings (IRM HOS 98-3)	PELM0805
New Caterpillar XT-3 Couplings for other Brands of Mobile Construction Equipment (IRM HOS 98-4)	PELM0814
XT-6 Hose Assemblies used on Cat® Excavators and Front Shovels (IRM 99-1)	PELM0886
Caterpillar XT-3 and XT-5 Hose Couplings for other Brands of Mobile Construction Equipment (IRM 99-2)	PELM0887
Caterpillar XT-3 ES Hose (736) (IRM99-3)	PELM0892
Caterpillar Nylon Abrasion Resistant Sleeving (IRM 99-4)	PELM0893

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