



Air-Way Manufacturing Company

FLARE-O[®] Hydraulic Fittings

J.I.C. - S.A.E.
Standard - Jumpsizes - Special

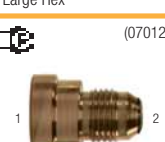
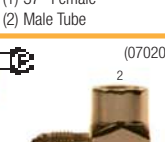
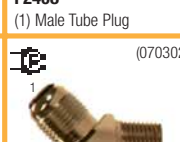
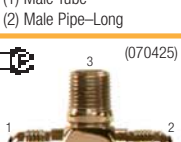
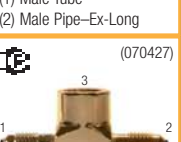
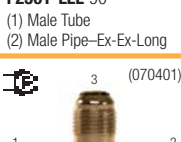
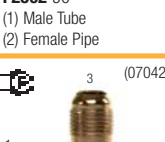
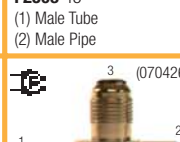
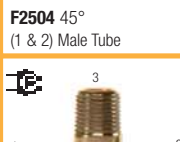
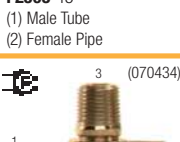
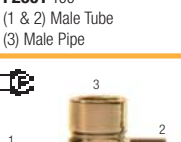
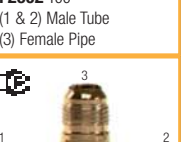
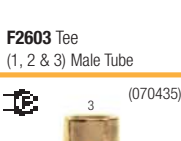
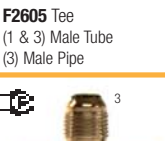
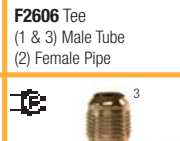
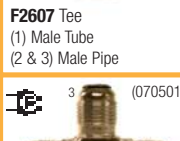
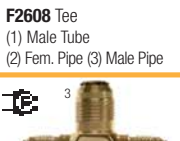
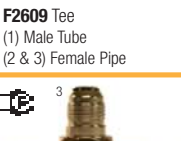
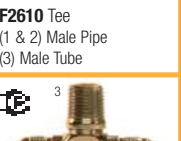
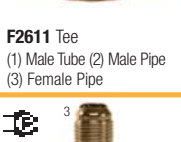
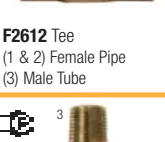
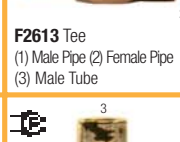
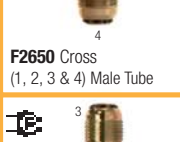
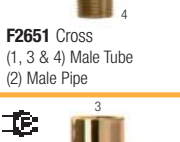
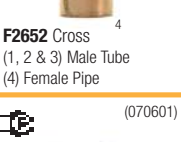
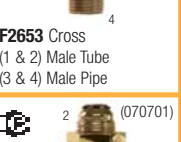
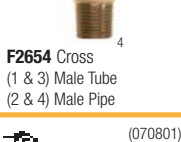
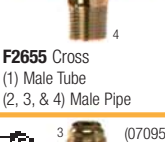
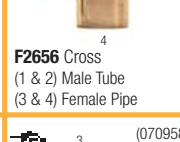
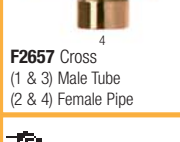
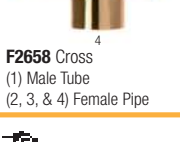
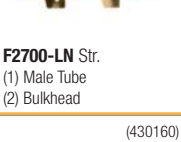
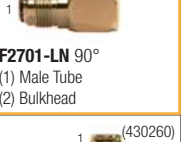


Tube Fittings

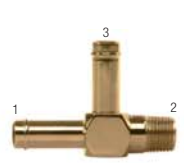
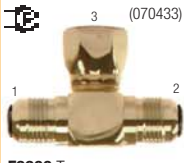
Refer to "Tube Fittings, JIC-SAE" Chart for sizes

NOTE:

Also available in Stainless Steel.

						
302 Short Nut	304 Standard Nut	304-C Cap Nut	306 Bulkhead Lock Nut	306-N Adj. Lock Nut	318 Tube Nut	319 Tube Sleeve
						
F2403 Str. (1 & 2) Male Tube Union	F2403-LH Str. (1 & 2) Male Tube Union Large Hex	F2404 Str. (1) Male Tube (2) Male Pipe	F2404-L Str. (1) Male Tube (2) Male Pipe-Long	F2404-LL Str. (1) Male Tube (2) Male Pipe-Ex-Long	F2404-LLL Str. (1) Male Tube (2) Male Pipe-Ex-Ex-Long	F2405 Str. (1) Male Tube (2) Female Pipe
						
F2406 Str. Reducer (1) 37° Female (2) Male Tube	F2407 Str. Reducer (1) 37° Female (2) Male Tube	F2408 (1) Male Tube Plug	F2500 90° (1 & 2) Male Tube	F2501 90° (1) Male Tube (2) Male Pipe	F2501-L 90° (1) Male Tube (2) Male Pipe-Long	F2501-LL 90° (1) Male Tube (2) Male Pipe-Ex-Long
						
F2501-LLL 90° (1) Male Tube (2) Male Pipe-Ex-Ex-Long	F2502 90° (1) Male Tube (2) Female Pipe	F2503 45° (1) Male Tube (2) Male Pipe	F2504 45° (1 & 2) Male Tube	F2505 45° (1) Male Tube (2) Female Pipe	F2601 Tee (1 & 2) Male Tube (3) Male Pipe	F2602 Tee (1 & 2) Male Tube (3) Female Pipe
						
F2603 Tee (1, 2 & 3) Male Tube	F2605 Tee (1 & 3) Male Tube (3) Male Pipe	F2606 Tee (1 & 3) Male Tube (2) Female Pipe	F2607 Tee (1) Male Tube (2 & 3) Male Pipe	F2608 Tee (1) Male Tube (2) Fern. Pipe (3) Male Pipe	F2609 Tee (1) Male Tube (2 & 3) Female Pipe	F2610 Tee (1 & 2) Male Pipe (3) Male Tube
						
F2611 Tee (1) Male Tube (2) Male Pipe (3) Female Pipe	F2612 Tee (1 & 2) Female Pipe (3) Male Tube	F2613 Tee (1) Male Pipe (2) Female Pipe (3) Male Tube	F2650 Cross (1, 2, 3 & 4) Male Tube	F2651 Cross (1, 3 & 4) Male Tube (2) Male Pipe	F2652 Cross (1, 2 & 3) Male Tube (4) Female Pipe	F2653 Cross (1 & 2) Male Tube (3 & 4) Male Pipe
						
F2654 Cross (1 & 3) Male Tube (2 & 4) Male Pipe	F2655 Cross (1) Male Tube (2, 3, & 4) Male Pipe	F2656 Cross (1 & 2) Male Tube (3 & 4) Female Pipe	F2657 Cross (1 & 3) Male Tube (2 & 4) Female Pipe	F2658 Cross (1) Male Tube (2, 3, & 4) Female Pipe	F2700-LN Str. (1) Male Tube (2) Bulkhead	F2701-LN 90° (1) Male Tube (2) Bulkhead
						
F2702-LN 45° (1) Male Tube (2) Bulkhead	F2703-LN Tee (1 & 2) Male Tube (3) Bulkhead	F2704-LN Tee (1 & 3) Male Tube (2) Bulkhead	F2705-LN Str. (1) Female Pipe (2) Bulkhead	F2706-LN Str. (1) Male Pipe (2) Bulkhead	4404 Str. (1) Beaded (2) Male Pipe	4501 90° (1) Beaded (2) Male Pipe

NOTE:
Also available in Stainless Steel.

 4503 45° (1) Beaded (2) Male Pipe	 4504 Tee (1, 2, & 3) Beaded	 4505 Tee (1 & 3) Beaded (2) Male Pipe	 4506 Tee (1 & 2) Beaded (3) Male Pipe	 F6500 90° (1) Male Tube (2) 37° Female Swivel	 F6500-L 90° (1) Male Tube (2) 37° Fem. Swivel-Long	 F6500-LL 90° (1) Male Tube (2) 37° Fem. Swivel-Ex-Long
 F6500-LLL 90° (1) Male Tube (2) 37° Female Swivel-Ex-Ex-Long	 6501 90° (1) Male Pipe (2) 37° Female Swivel	 F6502 45° (1) Male Tube (2) 37° Female Swivel	 6503 90° (1) Female Pipe (2) 37° Female Swivel	 F6504 Str. (1) Male Tube (2) 37° Female Swivel	 6505 Str. (1) Male Pipe (2) 37° Female Swivel	 6506 Str. (1) Female Pipe (2) 37° Female Swivel
 6507 45°. (1) Female Pipe (2) 37° Female Swivel	 F6600 Tee (1 & 2) Male Tube (3) 37° Female Swivel	 F6602 Tee (1 & 3) Male Tube (2) 37° Female Swivel	 F6603 Tee (1 & 2) 37° Female Swivel (3) Male Tube	 6604 Tee (1 & 2) 37° Female Swivel (3) Male Pipe	 6605 Tee (1 & 2) 37° Female Swivel (3) Female Pipe	 6606 Tee (1, 2 & 3) 37° Female Swivel

Braze Fittings for Tubing and Flanges

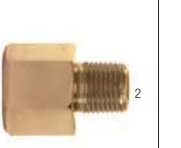
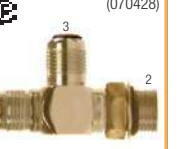
Refer to "Tube Fittings, JIC-SAE" Chart for sizes

 F403 Str. (1) Bore (2) Male Tube	 F403-L Str. (1) Bore (2) Bulkhead	 404 Str. (1) Bore (2) Male Pipe	 405 Str. (1) Bore (2) Female Pipe	 F500 90° (1) Bore (2) Male Tube	 F500-L 90° (1) Bore (2) Male Tube-Long	 501 90° (1) Bore (2) Male Pipe
 F600 Tee (1 & 2) Bore (3) Male Tube	 601 Tee (1 & 2) Bore (3) Male Pipe	 602 Tee (1 & 2) Bore (3) Female Pipe	 603 Tee (1, 2, & 3) Bore	 F701 Elbow (1) Bore (2 & 3) Male Tube	 F702 Tee (1) Bore (2 & 3) Male Tube	 800 Str. (1) Bore (2) Female Pipe Swivel
 801 90° (1) Bore (2) Female Pipe Swivel	 802 Tee (1 & 2) Bore (3) Female Pipe Swivel	 900 Str. (1) Bore (2) 37° Female Swivel	 901 90° (1) Bore (2) 37° Female Swivel	 902 Tee (1) Bore (2 & 3) 37° Female Swivel	 F1700 Str. (1) Male Tube (2) O-Ring Flange	 F1703 45° (1) Bore (2) O-Ring Flange
 F1704 90° (1) Male Tube (2) O-Ring Flange	 3300 (1 & 2) 3,000 PSI Flange	 3300-H (1 & 2) 6,000 PSI Flange	 31205-61 (1) Flange Halve, 3,000 PSI	 31205-62 (1) Flange Halve, 6,000 PSI	 31205-61-Kit (1) Flange Kit, 3,000 PSI	 31205-62-Kit (1) Flange Kit, 6,000 PSI

Adjustable & O-Ring Fittings

Refer to "Tube Fittings, JIC-SAE" Chart for sizes

NOTE:
Also available in Stainless Steel.

 F6400-0 Str. (1) Male Tube (2) Male O-Ring	 F6400-L-0 Str. (1) Male Tube (2) Male O-Ring-Long	 F6400-LL-0 Str. (1) Male Tube (2) Male O-Ring-Ex-Long	 F6400-LLL-0 Str. (1) Male Tube (2) Male O-Ring-Ex-Ex-Long	 6401-0 Str. (1) Male O-Ring (2) Male Pipe	 6402-0 Str. (1) Male O-Ring (2) 37° Female Swivel	 6404 Str. (1) Female O-Ring (2) Male Pipe
 6405-0 Str. (1) Male O-Ring (2) Female Pipe	 6407-NWO Str. (1) Adjustable O-Ring (2) Male O-Ring	 6408-0 Plug (1) Male O-Ring - Ext. Hex	 6409-0 Plug (1) Male O-Ring - Int. Hex	 6410-0 Str. (1) Male O-Ring (2) Female O-Ring	 F6801-NWO 90° (1) Male Tube (2) Adjustable O-Ring	 F6801-L-NWO 90° (1) Male Tube (2) Adjustable O-Ring-Long
 F6801-LL-NWO 90° (1) Male Tube (2) Adjustable O-Ring-Ex-Long	 F6801-LLL-NWO 90° (1) Male Tube (2) Adjustable O-Ring-Ex-Ex-Long	 F6802-NWO 45° (1) Adjustable O-Ring (2) Adjustable O-Ring	 F6803-NWO Tee (1 & 2) Male Tube (3) Adjustable O-Ring	 F6804-NWO Tee (1 & 3) Male Tube (2) Adjustable O-Ring	 6805-NWO 90° (1) Adjustable O-Ring (2) Female Pipe	 6806-NWO 90° (1) Adjustable O-Ring (2) Male Pipe
 6807-NWO 90° (1 & 2) Adjustable O-Ring	 6808-NWO 45° (1 & 2) Adjustable O-Ring	 6809-NWO 90° (1) Adjustable O-Ring (2) 37° Female Swivel	 6810-NWO 45° (1) Adjustable O-Ring (2) 37° Female Swivel	 6900-0 Str. (1) Male O-Ring (2) Female Pipe Swivel	 6901-NWO 90° (1) Adjustable O-Ring (2) Female Pipe Swivel	 6902-NWO 45° (1) Adjustable O-Ring (2) Female Pipe Swivel
 4601-NWO 90° (1) Beaded (2) Adjustable O-Ring	 4603-NWO 45° (1) Beaded (2) Adjustable O-Ring	 4604-0 Str. (1) Beaded (2) Male O-Ring	 4605-NWO Tee (1 & 3) Beaded (2) Adjustable O-Ring	 4606-NWO Tee (1 & 2) Beaded (3) Adjustable O-Ring	 FLARE-O® Fitting	

Tube Fittings, JIC-SAE

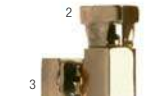
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Tube O.D.	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2	2
Decimal	.125	.188	.250	.313	.375	.500	.625	.750	.875	1.000	1.125	1.250	1.500	2.000
M. M. Equiv.	3.175	4.763	6.350	7.938	9.525	12.700	15.875	19.050	22.225	25.400	28.575	31.750	38.100	50.800
Straight Thread	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1-1/16-12	1-3/16-12	1-5/16-12	1-1/2-12	1-5/8-12	1-7/8-12	2-1/2-12
Decimal-threads/inch	.313	.375	.438	.500	.563	.750	.875	1.063	1.188	1.313	1.500	1.625	1.875	2.500
	-24	-24	-20	-20	-18	-16	-14	-12	-12	-12	-12	-12	-12	-12
M. M. Equiv.	7.938	9.525	11.113	12.700	14.288	19.050	22.225	26.988	30.163	33.338	38.100	41.275	47.625	63.500
	-24	-24	-20	-20	-18	-16	-14	-12	-12	-12	-12	-12	-12	-12
Pipe Thread Standard	1/8	1/8	1/8	1/8	1/4	3/8	1/2	3/4	3/4	1	1	1-1/4	1-1/2	2
Decimal	.125	.125	.125	.125	.250	.375	.500	.750	.750	1.000	1.000	1.250	1.500	2.000
M. M. Equiv.	3.175	3.175	3.175	3.175	6.350	9.525	12.700	19.050	19.050	25.400	25.400	31.750	38.100	50.800

Adapter Unions

Refer to "Adapter Unions & Pipe Fittings" Chart below for sizes

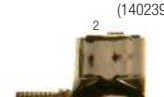
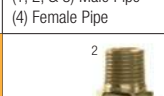
NOTE:

Also available in Stainless Steel.

 1404 Str. (1) Male Pipe (2) Female Pipe Swivel	 1405 Str. (1) Female Pipe (2) Female Pipe Swivel	 1406 Str. (1 & 2) Female Pipe Swivel	 1501 90° (1) Male Pipe (2) Female Pipe Swivel	 1502 90° (1) Female Pipe (2) Female Pipe Swivel	 1503 45° (1) Male Pipe (2) Female Pipe Swivel	 1504 45° (1) Female Pipe (2) Female Pipe Swivel
 1601 Tee (1) Male Pipe (2 & 3) Female Pipe Swivel	 1602 Tee (1) Female Pipe (2 & 3) Female Pipe Swivel	 1603 Tee (1, 2, & 3) Female Pipe Swivel	 1604 Cross (1) Male Pipe (2, 3, & 4) Female Pipe Swivel	 1605 Cross (1, 2, 3, & 4) Female Pipe Swivel		

Pipe Fittings

Refer to "Adapter Unions & Pipe Fittings" Chart for sizes

 5000 Str. (1 & 2) Female Pipe	 5404 Str. (1 & 2) Male Pipe	 5404-N Str. Nipple (1 & 2) Male Pipe	 5405 Str. Reducer (1) Male Pipe (2) Female Pipe	 5406 Bushing (1) Male Pipe (2) Female Pipe	 5406-P Plug (1) Male Pipe	 5500 90° (1 & 2) Male Pipe
 5501 45° (1 & 2) Male Pipe	 5502 90° (1) Male Pipe (2) Female Pipe	 5503 45° (1) Male Pipe (2) Female Pipe	 5504 90° (1 & 2) Female Pipe	 5505 45° (1 & 2) Female Pipe	 5600 Tee (1, 2, & 3) Male Pipe	 5601 Tee (1 & 2) Male Pipe (3) Female Pipe
 5602 Tee (1) Male Pipe (2 & 3) Female Pipe	 5603 Tee (1 & 3) Male Pipe (2) Female Pipe	 5604 Tee (1 & 2) Female Pipe (3) Male Pipe	 5605 Tee (1, 2, & 3) Female Pipe	 5650 Cross (1, 2, 3, & 4) Male Pipe	 5651 Cross (1, 2, & 3) Male Pipe (4) Female Pipe	 5652 Cross (1, 2, 3, & 4) Female Pipe
 5653 Cross (1 & 2) Male Pipe (3 & 4) Female Pipe	 5654 Cross (1 & 3) Male Pipe (2 & 4) Female Pipe	 5655 Cross (1) Male Pipe (2, 3, & 4) Female Pipe	 5700 90° (1) Male Pipe (2) Male Pipe Swivel	 F5701 90° (1) Female Tube (2) Male Pipe Swivel	 5702 90° (1) Female Pipe (2) Male Pipe Swivel	

Adapter Unions & Pipe Fittings

Dash Number	2	4	6	8	12	16	20	24	32
Pipe Th'd									
NPSM – NPTF									
Decimal	.125	.250	.375	.500	.750	1.000	1.250	1.500	2.000
M.M. Equiv.	3.175	6.350	9.525	12.700	19.050	25.400	31.750	38.100	50.800

Gauge Line Connection Ports

(Refer to "Tube Fittings, JIC-SAE" Chart for sizes)

Air-Way simplifies ordering of Gauge Line Connection Port fittings, in all shapes & sizes. Use the photograph to select the port location, add the symbol as a suffix to the part number and show the combined symbol.

Example: 6801-8-8-NWO-**2P2**.

6801-8-8-NWO

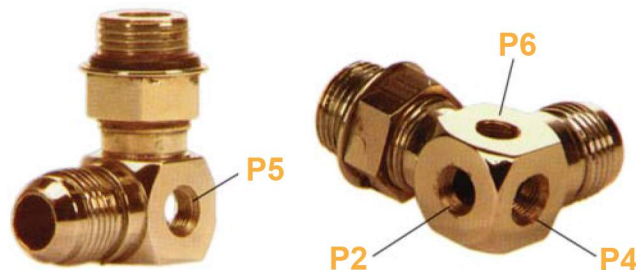
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P2

90° Adjustable Elbow

Size

Position



FLARE-O® Order Information

FLARE-O® fittings (featuring a Male 37° seat with an O-Ring) are indicated in this bulletin by a colored border. Their part numbers differ from conventional Air-Way fittings only by the addition of an "F" prefix. All other numbers remain the same (i.e. F6400-10-10-O).

Sizes of the fittings are indicated by the dash numbers as relating to sixteenth's of an inch measured from the Outside Diameter of the tube size used. For example; 1/2" O.D. (8/16) is noted as - 8. Male or Female pipe sizes are similar in that 1/2" pipe thread is also (8/16) or - 8.

If you need information regarding configurations that are not shown, please contact our Customer Service or Engineering departments for assistance.

Additional FLARE-O® O-Rings are available. Please specify the material and size desired when ordering. Standard FLARE-O® O-Rings will be 90 Durometer, Buna-N unless otherwise specified.

FLARE-O® Fitting Benefits: Positive Sealing & Adaptability

The FLARE-O® by Air-Way, evolved from the standard 37° SAE J514 hydraulic fitting. With the addition of an elastomeric O-Ring positioned in a strategic area of the sealing boundaries, **hydraulic leaks vanish**.

The FLARE-O® fitting is fully compatible with the traditional 37° design. No additional components are needed. Simply use the FLARE-O® in place of the standard 37° flare fitting and enjoy the superior leak free benefits.

The FLARE-O® is only one of the many reasons that Air-Way Manufacturing Company remains the industry leader by providing the best value in the hydraulic fitting marketplace.

Air-Way Manufacturing

-The Right Way -



Air-Way Manufacturing Company

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