



FLARE-O® Hydraulic Fittings

Air-Way Manufacturing Company

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.



















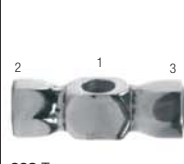









 302 Short Nut	(070111)  304 Standard Nut	(070112)  304-C Cap Nut	(070118)  306 Bulkhead Lock Nut	(070117)  306-N Adj. Lock Nut	(070110)  318 Tube Nut	(070115)  319 Tube Sleeve
 F2403 Str. (1 & 2) Male Tube Union	(070119)  F2403-LH Str. (1 & 2) Male Tube Union Large Hex	(070102)  F2404 Str. (1) Male Tube (2) Male Pipe	(070102L)  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	(070103)  F2405 Str. (1) Male Tube (2) Female Pipe
(070123)  F2406 Str. Reducer (1) 37° Female (2) Male Tube	(070123)  F2407 Str. Reducer (1) 37° Female (2) Male Tube	(070109)  F2408 (1) Male Tube Plug	(070201)  F2500 90° (1 & 2) Male Tube	(070202)  F2501 90° (1) Male Tube (2) Male Pipe	(071502)  F2501-L 90° (1) Male Tube (2) Male Pipe-Long	(071602)  F2501-LL 90° (1) Male Tube (2) Male Pipe-Ex-Long
 F2501-LLL 90° (1) Male Tube (2) Male Pipe-Ex-Ex-Long	(070203)  F2502 90° (1) Male Tube (2) Female Pipe	(070302)  F2503 45° (1) Male Tube (2) Male Pipe	 F2504 45° (1 & 2) Male Tube	 F2505 45° (1) Male Tube (2) Female Pipe	(070425)  F2601 Tee (1 & 2) Male Tube (3) Male Pipe	(070427)  F2602 Tee (1 & 2) Male Tube (3) Female Pipe
(070401)  F2603 Tee (1, 2 & 3) Male Tube	(070424)  F2605 Tee (1 & 3) Male Tube (3) Male Pipe	(070426)  F2606 Tee (1 & 3) Male Tube (2) Female Pipe	 F2607 Tee (1) Male Tube (2 & 3) Male Pipe	(070434)  F2608 Tee (1) Male Tube (2) Female Pipe (3) Male Pipe	 F2609 Tee (1) Male Tube (2 & 3) Female Pipe	 F2610 Tee (1 & 2) Male Tube (3) Male Tube
(070435)  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	(070501)  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	(070601)  F2700-LN Str. (1) Male Tube (2) Bulkhead	(070701)  F2701-LN 90° (1) Male Tube (2) Bulkhead
(070801)  F2702-LN 45° (1) Male Tube (2) Bulkhead	(070959)  F2703-LN Tee (1 & 2) Male Tube (3) Bulkhead	(070958)  F2704-LN Tee (1 & 2) Male Tube (3) Bulkhead	 F2705-LN Str. (1) Female Pipe (2) Bulkhead	 F2706-LN Str. (1) Male Pipe (2) Bulkhead	(430160)  4404 Str. (1) Beaded (2) Male Pipe	(430260)  4501 90° (1) Beaded (2) Male Pipe

NOTE:
Also available in Stainless Steel.

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

Braze Fittings for Tubing and Flanges



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

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

Adjustable & O-Ring Fittings

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

NOTE:
Also available in Stainless Steel.

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










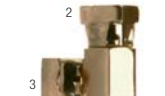

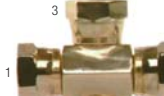
Tube Fittings, JIC-SAE

Dash Number	2	3	4	5	6	8	10	12	14	16	18	20	24	32
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.

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

Pipe Fittings

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

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

Adapter Unions & Pipe Fittings

Dash Number	2	4	6	8	12	16	20	24	32
Pipe Th'd									
NPSM - NPTF	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
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

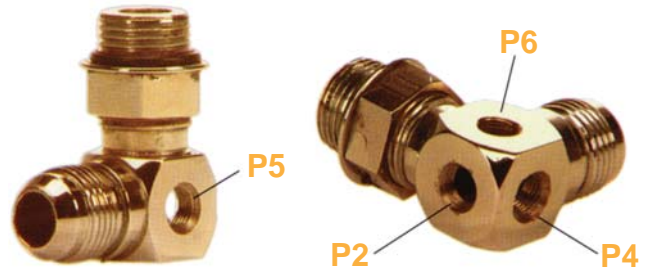
Gauge Line Connection Ports

(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	2	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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