



## 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.



















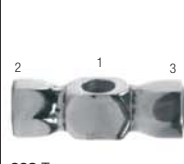









 <b>302 Short Nut</b>	(070111)  <b>304 Standard Nut</b>	(070112)  <b>304-C Cap Nut</b>	(070118)  <b>306 Bulkhead Lock Nut</b>	(070117)  <b>306-N Adj. Lock Nut</b>	(070110)  <b>318 Tube Nut</b>	(070115)  <b>319 Tube Sleeve</b>
 <b>F2403 Str.</b> (1 & 2) Male Tube Union	(070119)  <b>F2403-LH Str.</b> (1 & 2) Male Tube Union Large Hex	(070102)  <b>F2404 Str.</b> (1) Male Tube (2) Male Pipe	(070102L)  <b>F2404-L Str.</b> (1) Male Tube (2) Male Pipe-Long	 <b>F2404-LL Str.</b> (1) Male Tube (2) Male Pipe-Ex-Long	 <b>F2404-LLL Str.</b> (1) Male Tube (2) Male Pipe-Ex-Ex-Long	(070103)  <b>F2405 Str.</b> (1) Male Tube (2) Female Pipe
(070123)  <b>F2406 Str. Reducer</b> (1) 37° Female (2) Male Tube	(070123)  <b>F2407 Str. Reducer</b> (1) 37° Female (2) Male Tube	(070109)  <b>F2408</b> (1) Male Tube Plug	(070201)  <b>F2500 90°</b> (1 & 2) Male Tube	(070202)  <b>F2501 90°</b> (1) Male Tube (2) Male Pipe	(071502)  <b>F2501-L 90°</b> (1) Male Tube (2) Male Pipe-Long	(071602)  <b>F2501-LL 90°</b> (1) Male Tube (2) Male Pipe-Ex-Long
 <b>F2501-LLL 90°</b> (1) Male Tube (2) Male Pipe-Ex-Ex-Long	(070203)  <b>F2502 90°</b> (1) Male Tube (2) Female Pipe	(070302)  <b>F2503 45°</b> (1) Male Tube (2) Male Pipe	 <b>F2504 45°</b> (1 & 2) Male Tube	 <b>F2505 45°</b> (1) Male Tube (2) Female Pipe	(070425)  <b>F2601 Tee</b> (1 & 2) Male Tube (3) Male Pipe	(070427)  <b>F2602 Tee</b> (1 & 2) Male Tube (3) Female Pipe
(070401)  <b>F2603 Tee</b> (1, 2 & 3) Male Tube	(070424)  <b>F2605 Tee</b> (1 & 3) Male Tube (3) Male Pipe	(070426)  <b>F2606 Tee</b> (1 & 3) Male Tube (2) Female Pipe	 <b>F2607 Tee</b> (1) Male Tube (2 & 3) Male Pipe	(070434)  <b>F2608 Tee</b> (1) Male Tube (2) Female Pipe (3) Male Pipe	 <b>F2609 Tee</b> (1) Male Tube (2 & 3) Female Pipe	 <b>F2610 Tee</b> (1 & 2) Male Tube (3) Male Tube
(070435)  <b>F2611 Tee</b> (1) Male Tube (2) Male Pipe (3) Female Pipe	 <b>F2612 Tee</b> (1 & 2) Female Pipe (3) Male Tube	 <b>F2613 Tee</b> (1) Male Pipe (2) Female Pipe (3) Male Tube	(070501)  <b>F2650 Cross</b> (1, 2, 3 & 4) Male Tube	 <b>F2651 Cross</b> (1, 3 & 4) Male Tube (2) Male Pipe	 <b>F2652 Cross</b> (1, 2 & 3) Male Tube (4) Female Pipe	 <b>F2653 Cross</b> (1 & 2) Male Tube (3 & 4) Male Pipe
 <b>F2654 Cross</b> (1 & 3) Male Tube (2 & 4) Male Pipe	 <b>F2655 Cross</b> (1) Male Tube (2, 3, & 4) Male Pipe	 <b>F2656 Cross</b> (1 & 2) Male Tube (3 & 4) Female Pipe	 <b>F2657 Cross</b> (1 & 3) Male Tube (2 & 4) Female Pipe	 <b>F2658 Cross</b> (1) Male Tube (2, 3, & 4) Female Pipe	(070601)  <b>F2700-LN Str.</b> (1) Male Tube (2) Bulkhead	(070701)  <b>F2701-LN 90°</b> (1) Male Tube (2) Bulkhead
(070801)  <b>F2702-LN 45°</b> (1) Male Tube (2) Bulkhead	(070959)  <b>F2703-LN Tee</b> (1 & 2) Male Tube (3) Bulkhead	(070958)  <b>F2704-LN Tee</b> (1 & 2) Male Tube (3) Bulkhead	 <b>F2705-LN Str.</b> (1) Female Pipe (2) Bulkhead	 <b>F2706-LN Str.</b> (1) Male Pipe (2) Bulkhead	(430160)  <b>4404 Str.</b> (1) Beaded (2) Male Pipe	(430260)  <b>4501 90°</b> (1) Beaded (2) Male Pipe

**NOTE:**  
Also available in Stainless Steel.

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

## Braze Fittings for Tubing and Flanges



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

 <p><b>F403 Str.</b> (1) Bore (2) Male Tube</p>	 <p><b>F403-L Str.</b> (1) Bore (2) Bulkhead</p>	 <p><b>404 Str.</b> (1) Bore (2) Male Pipe</p>	 <p><b>405 Str.</b> (1) Bore (2) Female Pipe</p>	 <p><b>F500 90°</b> (1) Bore (2) Male Tube</p>	 <p><b>F500-L 90°</b> (1) Bore (2) Male Tube-Long</p>	 <p><b>501 90°</b> (1) Bore (2) Male Pipe</p>
 <p><b>F600 Tee</b> (1 &amp; 2) Bore (3) Male Tube</p>	 <p><b>601 Tee</b> (1 &amp; 2) Bore (3) Male Pipe</p>	 <p><b>602 Tee</b> (1 &amp; 2) Bore (3) Female Pipe</p>	 <p><b>603 Tee</b> (1, 2, &amp; 3) Bore</p>	 <p><b>F701 Elbow</b> (1) Bore (2 &amp; 3) Male Tube</p>	 <p><b>F702 Tee</b> (1) Bore (2 &amp; 3) Male Tube</p>	 <p><b>800 Str.</b> (1) Bore (2) Female Pipe Swivel</p>
 <p><b>801 90°</b> (1) Bore (2) Female Pipe Swivel</p>	 <p><b>802 Tee</b> (1 &amp; 2) Bore (3) Female Pipe Swivel</p>	 <p><b>900 Str.</b> (1) Bore (2) 37° Female Swivel</p>	 <p><b>901 90°</b> (1) Bore (2) 37° Female Swivel</p>	 <p><b>902 Tee</b> (1) Bore (2 &amp; 3) 37° Female Swivel</p>	 <p><b>F1700 Str.</b> (1) Male Tube (2) O-Ring Flange</p>	 <p><b>F1703 45°</b> (1) Male Tube (2) O-Ring Flange</p>
 <p><b>F1704 90°</b> (1) Male Tube (2) O-Ring Flange</p>	 <p><b>3300</b> (1 &amp; 2) 3,000 PSI Flange</p>	 <p><b>3300-H</b> (1 &amp; 2) 6,000 PSI Flange</p>	 <p><b>31205-61</b> (1) Flange Half, 3,000 PSI</p>	 <p><b>31205-62</b> (1) Flange Half, 6,000 PSI</p>	 <p><b>31205-61-Kit</b> (1) Flange Kit, 3,000 PSI</p>	 <p><b>31205-62-Kit</b> (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><b>F6400-0 Str.</b> (1) Male Tube (2) Male O-Ring</p>	 <p><b>F6400-L-0 Str.</b> (1) Male Tube (2) Male O-Ring-Long</p>	 <p><b>F6400-LL-0 Str.</b> (1) Male Tube (2) Male O-Ring-Ex-Long</p>	 <p><b>F6400-LLL-0 Str.</b> (1) Male Tube (2) Male O-Ring-Ex-Ex-Long</p>	 <p><b>6401-0 Str.</b> (1) Male O-Ring (2) Male Pipe</p>	 <p><b>6402-0 Str.</b> (1) Male O-Ring (2) 37° Female Swivel</p>	 <p><b>6404 Str.</b> (1) Female O-Ring (2) Male Pipe</p>
 <p><b>6405-0 Str.</b> (1) Male O-Ring (2) Female Pipe</p>	 <p><b>6407-NWO Str.</b> (1) Adjustable O-Ring (2) Male O-Ring</p>	 <p><b>6408-0 Plug</b> (1) Male O-Ring - Ext. Hex</p>	 <p><b>6409-0 Plug</b> (1) Male O-Ring - Int. Hex</p>	 <p><b>6410-0 Str.</b> (1) Male O-Ring (2) Female O-Ring</p>	 <p><b>F6801-NWO 90°</b> (1) Male Tube (2) Adjustable O-Ring</p>	 <p><b>F6801-L-NWO 90°</b> (1) Male Tube (2) Adjustable O-Ring-Long</p>
 <p><b>F6801-LL-NWO 90°</b> (1) Male Tube (2) Adjustable O-Ring-Ex-Long</p>	 <p><b>F6801-LLL-NWO 90°</b> (1) Male Tube (2) Adjustable O-Ring-Ex-Ex-Long</p>	 <p><b>F6802-NWO 45°</b> (1) Male Tube (2) Adjustable O-Ring</p>	 <p><b>F6803-NWO Tee</b> (1 &amp; 2) Male Tube (3) Adjustable O-Ring</p>	 <p><b>F6804-NWO Tee</b> (1 &amp; 3) Male Tube (2) Adjustable O-Ring</p>	 <p><b>6805-NWO 90°</b> (1) Adjustable O-Ring (2) Female Pipe</p>	 <p><b>6806-NWO 90°</b> (1) Adjustable O-Ring (2) Male Pipe</p>
 <p><b>6807-NWO 90°</b> (1 &amp; 2) Adjustable O-Ring</p>	 <p><b>6808-NWO 45°</b> (1 &amp; 2) Adjustable O-Ring</p>	 <p><b>6809-NWO 90°</b> (1) Adjustable O-Ring (2) 37° Female Swivel</p>	 <p><b>6810-NWO 45°</b> (1) Adjustable O-Ring (2) 37° Female Swivel</p>	 <p><b>6900-0 Str.</b> (1) Male O-Ring (2) Female Pipe Swivel</p>	 <p><b>6901-NWO 90°</b> (1) Adjustable O-Ring (2) Female Pipe Swivel</p>	 <p><b>6902-NWO 45°</b> (1) Adjustable O-Ring (2) Female Pipe Swivel</p>
 <p><b>4601-NWO 90°</b> (1) Beaded (2) Adjustable O-Ring</p>	 <p><b>4603-NWO 45°</b> (1) Beaded (2) Adjustable O-Ring</p>	 <p><b>4604-0 Str.</b> (1) Beaded (2) Male O-Ring</p>	 <p><b>4605-NWO Tee</b> (1 &amp; 3) Beaded (2) Adjustable O-Ring</p>	 <p><b>4606-NWO Tee</b> (1 &amp; 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
<b>Tube O.D.</b>	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
<b>Decimal</b>	.125	.188	.250	.313	.375	.500	.625	.750	.875	1.000	1.125	1.250	1.500	2.000
<b>M. M. Equiv.</b>	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
<b>Straight Thread</b>	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
<b>Decimal-threads/inch</b>	.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
<b>M. M. Equiv.</b>	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
<b>Pipe Thread Standard</b>	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
<b>Decimal</b>	.125	.125	.125	.125	.250	.375	.500	.750	.750	1.000	1.000	1.250	1.500	2.000
<b>M. M. Equiv.</b>	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><b>1404 Str.</b> (1) Male Pipe (2) Female Pipe Swivel</p>	<p><b>1405 Str.</b> (1) Female Pipe (2) Female Pipe Swivel</p>	<p><b>1406 Str.</b> (1 &amp; 2) Female Pipe Swivel</p>	<p><b>1501 90°</b> (1) Male Pipe (2) Female Pipe Swivel</p>	<p><b>1502 90°</b> (1) Female Pipe (2) Female Pipe Swivel</p>	<p><b>1503 45°</b> (1) Male Pipe (2) Female Pipe Swivel</p>	<p><b>1504 45°</b> (1) Female Pipe (2) Female Pipe Swivel</p>
<p><b>1601 Tee</b> (1) Male Pipe (2 &amp; 3) Female Pipe Swivel</p>	<p><b>1602 Tee</b> (1) Female Pipe (2 &amp; 3) Female Pipe Swivel</p>	<p><b>1603 Tee</b> (1, 2, &amp; 3) Female Pipe Swivel</p>	<p><b>1604 Cross</b> (1) Male Pipe (2, 3, &amp; 4) Female Pipe Swivel</p>	<p><b>1605 Cross</b> (1, 2, 3, &amp; 4) Female Pipe Swivel</p>		

# Pipe Fittings

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

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

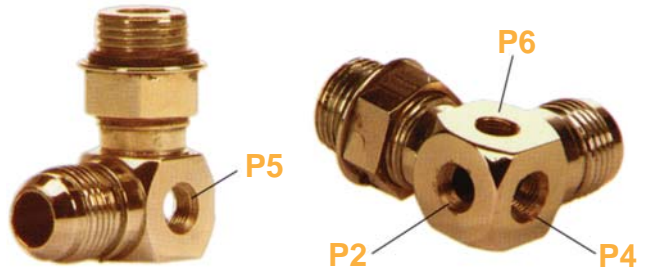
## Gauge Line Connection Ports

(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.

<b>6801-8-8-NWO</b>	<b>2</b>	<b>P2</b>
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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