



## Carbon Steel Hydraulic Fittings

*Air-Way Manufacturing Company*





















































J.I.C.-SAE J514  
Standard - Jumpsizes - Special


















# Tube Fittings

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

**NOTE:**  
Also available in FLARE-O® and  
Stainless Steel Styles.















 <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>
(070101)  <b>2403- Str.</b> (1 & 2) Male Tube Union	(070119)  <b>2403-LH- Str.</b> (1 & 2) Male Tube Union Large Hex	(070102)  <b>2404- Str.</b> (1) Male Tube (2) Male Pipe	(070102L)  <b>2404-L- Str.</b> (1) Male Tube (2) Male Pipe-Long	 <b>2404-LL- Str.</b> (1) Male Tube (2) Male Pipe-Ex-Long	(070103)  <b>2405- Str.</b> (1) Male Tube (2) Female Pipe	(070123)  <b>2406- Str. Reducer</b> (1) 37° Female (2) Male Tube
(070123)  <b>2407- Str. Reducer</b> (1) 37° Female (2) Male Tube	(070109)  <b>2408- Plug</b> (1) Male Tube	G (070201)  <b>2500- 90°</b> (1 & 2) Male Tube	G (070202)  <b>2501- 90°</b> (1) Male Tube (2) Male Pipe	G (071502)  <b>2501-L- 90°</b> (1) Male Tube (2) Male Pipe-Long	(071602)  <b>2501-LL- 90°</b> (1) Male Tube (2) Male Pipe-Ex-Long	 <b>2501-LLL- 90°</b> (1) Male Tube (2) Male Pipe-Ex-Ex-Long
G (070203)  <b>2502- 90°</b> (1) Male Tube (2) Female Pipe	G (070302)  <b>2503- 45°</b> (1) Male Tube (2) Male Pipe	 <b>2504- 45°</b> (1 & 2) Male Tube	 <b>2505- 45°</b> (1) Male Tube (2) Female Pipe	G (070425)  <b>2601- Tee</b> (1 & 2) Male Tube (3) Male Pipe	G (070427)  <b>2602- Tee</b> (1 & 2) Male Tube (3) Female Pipe	G (070401)  <b>2603- Tee</b> (1, 2 & 3) Male Tube
G (070424)  <b>2605- Tee</b> (1 & 3) Male Tube (2) Male Pipe	(070426)  <b>2606- Tee</b> (1 & 3) Male Tube (2) Female Pipe	 <b>2607- Tee</b> (1) Male Tube (2 & 3) Male Pipe	(070434)  <b>2608- Tee</b> (1) Male Tube (2) Fern. Pipe (3) Male Pipe	 <b>2609- Tee</b> (1) Male Tube (2 & 3) Female Pipe	 <b>2610- Tee</b> (1 & 2) Male Tube (3) Male Pipe	(070435)  <b>2611- Tee</b> (1) Male Tube (2) Male Pipe (3) Female Pipe
 <b>2612- Tee</b> (1 & 2) Female Pipe (3) Male Tube	 <b>2613- Tee</b> (1) Male Pipe (2) Female Pipe (3) Male Tube	G (070501)  <b>2650- Cross</b> (1, 2, 3 & 4) Male Tube	 <b>2651- Cross</b> (1, 2 & 3) Male Tube (4) Male Pipe	 <b>2652- Cross</b> (1, 2 & 3) Male Tube (4) Female Pipe	 <b>2653- Cross</b> (1 & 2) Male Tube (3 & 4) Male Pipe	 <b>2658- Cross</b> (1) Male Tube (2, 3 & 4) Female Pipe
(070601)  <b>2700-LN- Str.</b> (1) Male Tube (2) Bulkhead	G (070701)  <b>2701-LN- 90°</b> (1) Male Tube (2) Bulkhead	G (070801)  <b>2702-LN- 45°</b> (1) Male Tube (2) Bulkhead	G (070959)  <b>2703-LN- Tee</b> (1 & 2) Male Tube (3) Bulkhead	G (070958)  <b>2704-LN- Tee</b> (1 & 3) Male Tube (2) Bulkhead	 <b>2705-LN- Str.</b> (1) Female Pipe (2) Bulkhead	 <b>2706-LN- Str.</b> (1) Male Pipe (2) Bulkhead
(430160)  <b>4404- Str.</b> (1) Beaded (2) Male Pipe	(431460)  <b>4501- 90°</b> (1) Beaded (2) Male Pipe	(430360)  <b>4503- 45°</b> (1) Beaded (2) Male Pipe	 <b>4504- Tee</b> (1, 2, & 3) Beaded	 <b>4505- Tee</b> (1 & 3) Beaded (2) Male Pipe	 <b>4506- Tee</b> (1) Male Tube (2) Beaded (3) Male Pipe	G (070221)  <b>6500- 90°</b> (1) Male Tube (2) 37° Female Swivel

**NOTE:**  
Also available in FLARE-O® and Stainless Steel Styles.

 <p><b>6500-L- 90°</b> (1) Male Tube (2) 37° Fem. Swivel-Long</p>	<p><b>G</b></p>  <p><b>6501- 90°</b> (1) Male Pipe (2) 37° Female Swivel</p>	<p><b>G</b> (070321)</p>  <p><b>6502- 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>6504- 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>6565- Str.</b> (1 &amp; 2) 37° Female Swivel</p>	<p><b>G</b> (070433)</p>  <p><b>6600- Tee</b> (1 &amp; 2) Male Tube (3) 37° Female Swivel</p>	<p><b>G</b> (070432)</p>  <p><b>6602- Tee</b> (1 &amp; 3) Male Tube (2) 37° Female Swivel</p>	 <p><b>6603- 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>	<p><b>NOTE:</b></p> <p>Items shown with “G” in the top portion of the box are also available in a Forged style. To order the Forged style, simply add a G prefix to the item number. In example, G6801-6-6-NWO.</p> <p>Applicable items are also shown with an SAE number in the top portion of the box. In example, (070220).</p>					

## Braze Fittings for Tubing

Refer to “Tube Fittings, JIC-SAE” Chart for sizes

 <p><b>403- Str. Unplated</b> (1) Bore (2) Male Tube</p>	 <p><b>403-L- Str. Unplated</b> (1) Bore (2) Bulkhead</p>	 <p><b>404- Str. Unplated</b> (1) Bore (2) Male Pipe</p>	 <p><b>405- Str. Unplated</b> (1) Bore (2) Female Pipe</p>	 <p><b>500- 90° Unplated</b> (1) Bore (2) Male Tube</p>	 <p><b>501- 90° Unplated</b> (1) Bore (2) Male Pipe</p>	 <p><b>600- Tee Unplated</b> (1 &amp; 2) Bore (3) Male Tube</p>
 <p><b>602- Tee Unplated</b> (1 &amp; 2) Bore (3) Female Pipe</p>	 <p><b>701- Elbow Unplated</b> (2 &amp; 3) Male Tube</p>	 <p><b>702- Tee Unplated</b> (1) Bore (2 &amp; 3) Male Tube</p>	 <p><b>800- Str. Unplated</b> (1) Bore (2) Female Pipe Swivel</p>	 <p><b>801- 90° Unplated</b> (1) Bore (2) Female Pipe Swivel</p>	 <p><b>900- Str. Unplated</b> (1) Bore (2) 37° Female Swivel</p>	 <p><b>901- 90° Unplated</b> (1) Bore (2) 37° Female Swivel</p>

## Flanges

Refer to “Tube Fittings, JIC-SAE” Chart for sizes

 <p><b>1700- Str.</b> (1) Male Tube (2) O-Ring Flange</p>	 <p><b>1701- 90°</b> (1) Male Tube (2) O-Ring Flange</p>	 <p><b>1703- 45°</b> (1) Male Tube (2) O-Ring Flange</p>	 <p><b>1704- 90°</b> (1) Male Tube (2) O-Ring Flange</p>	 <p><b>3300- Unplated</b> (1 &amp; 2) 3000 PSI Flange</p>	 <p><b>3300-H- Unplated</b> (1 &amp; 2) 6000 PSI Flange</p>	 <p><b>31205-61-</b> (1) Flange Halve, 3,000 PSI</p>
 <p><b>31205-62-</b> (1) Flange Halve, 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 FLARE-O® and Stainless Steel Styles.

 <b>6400-0- Str.</b> (1) Male Tube (2) Male O-Ring	 <b>6400-L-0- Str.</b> (1) Male Tube (2) Male O-Ring-Long	 <b>6401-0- Str.</b> (1) Male O-Ring (2) Male Pipe	 <b>6402-0- Str.</b> (1) Male O-Ring (2) 37° Female Swivel	 <b>6403-0- Str.</b> (1&2) Male O-Ring	 <b>6404- Str.</b> (1) Female O-Ring (2) Male Pipe	 <b>6405-0- Str.</b> (1) Male O-Ring (2) Female Pipe
 <b>6407-NWO- Str.</b> (1) Male O-Ring (2) Adjustable O-Ring	 <b>6408-0- Plug</b> (1) Male O-Ring - Ext. Hex	 <b>6409-0- Plug</b> (1) Male O-Ring - Int. Hex	 <b>6410-0- Str.</b> (1) Male O-Ring (2) Female O-Ring	 <b>6801-NWO- 90°</b> (1) Male Tube (2) Adjustable O-Ring	 <b>6801-L-NWO- 90°</b> (1) Male Tube (2) Adjustable O-Ring-Long	 <b>6801-LL-NWO- 90°</b> (1) Male Tube (2) Adjustable O-Ring Ex-Long
 <b>6801-LLL-NWO- 90°</b> (1) Male Tube (2) Adjustable O-Ring Ex-Ex-Long	 <b>6802-NWO- 45°</b> (1) Male Tube (2) Adjustable O-Ring	 <b>6803-NWO- Tee</b> (1 & 2) Male Tube (3) Adjustable O-Ring	 <b>6804-NWO- Tee</b> (1 & 3) Male Tube (2) Adjustable O-Ring	 <b>6805-NWO- 90°</b> (1) Adjustable O-Ring (2) Female Pipe	 <b>6806-NWO- 90°</b> (1) Adjustable O-Ring (2) Male Pipe	 <b>6807-NWO- 90°</b> (1 & 2) Adjustable O-Ring
 <b>6808-NWO- 45°</b> (1 & 2) Adjustable O-Ring	 <b>6809-NWO- 90°</b> (1) Adjustable O-Ring (2) 37° Female Swivel	 <b>6810-NWO- 45°</b> (1) Adjustable O-Ring (2) 37° Female Swivel	 <b>6900-0- Str.</b> (1) Male O-Ring (2) Female Pipe Swivel	 <b>6901-NWO- 90°</b> (1) Adjustable O-Ring (2) Female Pipe Swivel	 <b>6902-NWO- 45°</b> (1) Adjustable O-Ring (2) Female Pipe Swivel	 <b>4601-NWO- 90°</b> (1) Beaded (2) Adjustable O-Ring
 <b>4603-NWO- 45°</b> (1) Beaded (2) Adjustable O-Ring	 <b>4604-0- Str.</b> (1) Beaded (2) Male O-Ring	 <b>4605-NWO- Tee</b> (1 & 3) Beaded (2) Male O-Ring	 <b>4606-NWO- Tee</b> (1 & 2) Beaded (3) Adjustable O-Ring			

## Tube Fittings, JIC-SAE












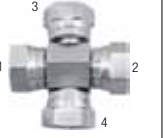
Dash Number	2	3	4	5	6	8	10	12	14	16	18	20	24	32
<b>Tube O. D.</b>	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2	2
<b>Decimal</b>	.125	.188	.250	.313	.375	.500	.625	.750	.875	1.000	1.125	1.250	1.500	2.000
<b>M. M. Equiv.</b>	3.175	4.763	6.350	7.938	9.525	12.700	15.875	19.050	22.225	25.400	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 Union

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

**NOTE:**  
Also available in FLARE-O® and Stainless Steel Styles.

 <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>3051- 90°</b> (1) Male Pipe (2) Female Pipe</p>	 <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-C- Cap</b> (1) 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>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>			

# Adapter Unions & Pipe Fittings

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

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



## Order Information

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.

Our standard items can be ordered by using the appropriate chart and dash numbers. For example: 2501-8-6 is a 1/2" tube end with 3/4-16 straight thread on one end and 3/8" pipe thread on the other end. 2501-8-12 is a 1/2" tube end with 3/4-16 straight thread on one end and 3/4" pipe thread on the other end.

Adjustable and O-Ring fittings may be purchased in various stages of assembly. For example: 6801-8-8-NWO would be assembled complete with "N" Nut, "W" Washer and "O" O-Ring. 6801-8-8-NW would be assembled with "N" Nut and "W" Washer only.

Many items are available in either a brazed or forged style construction. If a forged style is preferred, simply add a "G" prefix to the item number or the word "Forging" after the number.

Special items and configurations are available to order using customer specifications. Pricing and availability of these items can be furnished on request.

## The Air-Way Advantage

Since 1950, Air-Way Manufacturing Company has been the leading manufacturer of hydraulic fittings.

Not only is Air-Way an ISO 9001:2000 certified manufacturer, but also a certified supplier to several of the largest and most recognized Original Equipment Manufacturers in the world.

Air-Way is the largest independent hydraulic fitting manufacturer in the United States. The combination of our manufacturing expertise, along with our outstanding technical and customer service support has proven to represent an excellent value for our customers.

We have also made available a program called Air-Way Direct™. This program allows us to ship the same day we receive your order. Only with Air-Way Direct™ can you benefit from both the technical expertise of a manufacturer along with immediate delivery of product.

Special packaging, shipping and service programs have helped Air-Way establish a reputation as being the most versatile and customer friendly manufacturer in the hydraulic fitting industry.

*Air-Way Manufacturing*  
- The World Source For Hydraulic Fittings -



*Air-Way Manufacturing Company*

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