

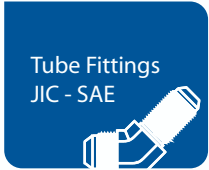
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## HYDRAULIC FITTINGS AND SWIVELS


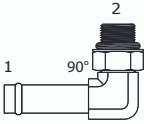

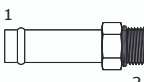

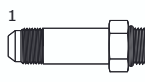
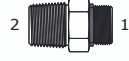
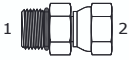
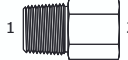
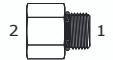



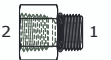
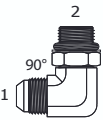
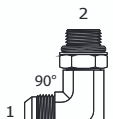
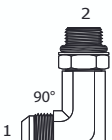
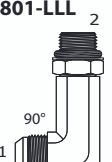
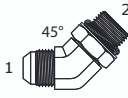
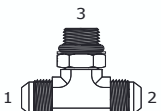
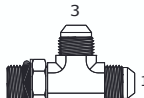
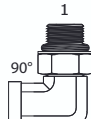
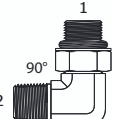
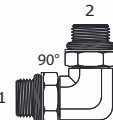
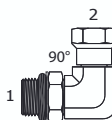
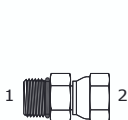
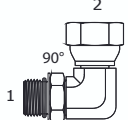
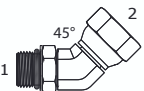


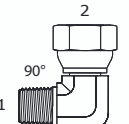
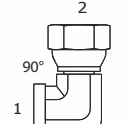
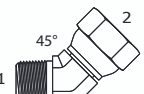
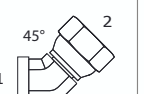
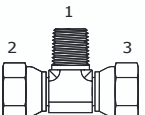
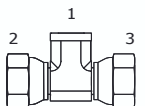
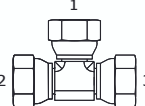


- HYDRAULIC ADAPTERS
- INLINE FULL TIME SWIVELS
- 90° FULL TIME SWIVELS
- MOST ITEMS AVAILABLE IN STAINLESS STEEL



	<b>304</b>  Standard Nut	<b>304-C</b>  Cap Nut	<b>306</b>  Bulkhead Nut	<b>318</b>  Tube Nut	<b>319</b>  Tube Sleeve	<b>360</b>  1 - Male Tube 2 - SAE 61	<b>361</b>  1 - Male Tube 2 - SAE 61
<b>362</b>  1 - Male Tube 2 - SAE 61	<b>363</b>  1 - Male Tube 2 - SAE 62	<b>364</b>  1 - Male Tube 2 - SAE 62	<b>365</b>  1 - Male Tube 2 - SAE 62	<b>403</b>  1 - Bore 2 - Male Tube	<b>2403</b>  Union 1 - Male Tube 2 - Male Tube	<b>2404</b>  1 - Male Tube 2 - Male Pipe	<b>2405</b>  1 - Male Tube 2 - Female Pipe
<b>2406</b>  Straight 1 - 37° Female 2 - Male Tube	<b>2408</b>  Male Tube Plug	<b>2500</b>  1 & 2 - Male Tube	<b>2501</b>  1 - Male Tube 2 - Male Pipe	<b>2501-L</b>  1 - Male Tube 2 - Male Pipe	<b>2501-LL</b>  1 - Male Tube 2 - Male Pipe	<b>2501-LLL</b>  1 - Male Tube 2 - Male Pipe	<b>2502</b>  1 - Male Tube 2 - Female Pipe
<b>2503</b>  1 - Male Tube 2 - Male Pipe	<b>2504</b>  1 - Male Tube 2 - Male Tube	<b>2505</b>  1 - Male Tube 2 - Female NPT	<b>2601</b>  1 & 2 - Male Tube 3 - Male Pipe	<b>2602</b>  1 & 2 - Male Tube 3 - Female Pipe	<b>2603</b>  Male Tube Tee	<b>2605</b>  1 & 3 - Male Tube 2 - Male Pipe	<b>2606</b>  1 & 3 - Male Tube 2 - Female Pipe
<b>2650</b>  Male Tube Cross	<b>2700</b>  1 - Male Tube 2 - Bulkhead	<b>2701</b>  1 - Male Tube 2 - Bulkhead	<b>2702</b>  1 - Male Tube 2 - Bulkhead	<b>2703</b>  1 & 2 - Male Tube 3 - Bulkhead	<b>2704</b>  1 & 3 - Male Tube 2 - Bulkhead	<b>2705</b>  1 - Female Pipe 2 - Bulkhead	<b>2706</b>  1 - Male Pipe 2 - Bulkhead
<b>4404</b>  1 - Beaded 2 - Male Pipe	<b>4501</b>  1 - Beaded 2 - Male Pipe	<b>4503</b>  1 - Beaded 2 - Male Pipe	<b>6500</b>  1 - Male Tube 2 - 37° Fem. Swivel	<b>6500-L</b>  1 - Male Tube 2 - 37° Fem. Swivel	<b>6501</b>  1 - Male Pipe 2 - Female JIC Sw.	<b>6502</b>  1 - Male Tube 2 - Female JIC Sw.	<b>6503</b>  1 - Female Pipe 2 - Female JIC Sw.
<b>6504</b>  1 - Male Tube 2 - Female JIC Sw.	<b>6505</b>  1 - Male NPT 2 - Female JIC Sw.	<b>6506</b>  1 - Female Pipe 2 - Female JIC Sw.	<b>6600</b>  1 & 2 - Male Tube 3 - Female JIC Sw.	<b>6602</b>  1 & 3 - Male Tube 2 - Female JIC Sw.			

**"O" Ring Fittings**


	<p><b>4000</b></p>  <p>SAE "O" Ring</p>	<p><b>4601</b></p>  <p>1 - Beaded 2 - Adj. "O" Ring</p>	<p><b>4603</b></p>  <p>1 - Beaded 2 - Adj. "O" Ring</p>	<p><b>4604</b></p>  <p>1 - Beaded 2 - Male "O" Ring</p>	<p><b>6400</b></p>  <p>1 - Male Tube 2 - Male "O" Ring</p>	<p><b>6400-L</b></p>  <p>1 - Male Tube 2 - Male "O" Ring</p>	<p><b>6401</b></p>  <p>1 - Male "O" Ring 2 - Male Pipe</p>
<p><b>6402</b></p>  <p>1 - Male "O" Ring 2 - 37° Fem. Swivel</p>	<p><b>6404</b></p>  <p>1 - Female "O" Ring 2 - Male Pipe</p>	<p><b>6405</b></p>  <p>1 - Male "O" Ring 2 - Female Pipe</p>	<p><b>6407</b></p>  <p>1 - Adj. "O" Ring 2 - Male "O" Ring</p>	<p><b>6408</b></p>  <p>Male "O" Ring Hex Plug</p>	<p><b>6409</b></p>  <p>"O" Ring Allen Head Plug</p>	<p><b>6410</b></p>  <p>1 - Male "O" Ring 2 - Female "O" Ring</p>	<p><b>6801</b></p>  <p>1 - Male Tube 2 - Adj. "O" Ring</p>
<p><b>6801-L</b></p>  <p>1 - Male Tube 2 - Adj. "O" Ring</p>	<p><b>6801-LL</b></p>  <p>1 - Male Tube 2 - Adj. "O" Ring</p>	<p><b>6801-LLL</b></p>  <p>1 - Male Tube 2 - Adj. "O" Ring</p>	<p><b>6802</b></p>  <p>1 - Male Tube 2 - Adj. "O" Ring</p>	<p><b>6803</b></p>  <p>1 &amp; 2 - Male Tube 3 - Adj. "O" Ring</p>	<p><b>6804</b></p>  <p>1 &amp; 3 - Male Tube 2 - Adj. "O" Ring</p>	<p><b>6805</b></p>  <p>1 - Adj. "O" Ring 2 - Female Pipe</p>	<p><b>6806</b></p>  <p>1 - Adj. "O" Ring 2 - Male Pipe</p>
<p><b>6807</b></p>  <p>1 &amp; 2 - Adj. "O" Ring</p>	<p><b>6809</b></p>  <p>1 - Adj. "O" Ring 2 - Fem. JIC Swivel</p>	<p><b>6900</b></p>  <p>1 - Male "O" Ring 2 - Fem. Pipe Swivel</p>	<p><b>6901</b></p>  <p>1 - Adj. "O" Ring 2 - Fem. Pipe Swivel</p>	<p><b>6902</b></p>  <p>1 - Adj. "O" Ring 2 - Fem. Pipe Swivel</p>			
	<p><b>1404</b></p>  <p>1 - Male Pipe 2 - Female Swivel</p>	<p><b>1405</b></p>  <p>1 - Female Pipe 2 - Fem. Pipe Swivel</p>	<p><b>1501</b></p>  <p>1 - Male Pipe 2 - Fem. Pipe Swivel</p>	<p><b>1502</b></p>  <p>1 - Female Pipe 2 - Fem. Pipe Swivel</p>	<p><b>1503</b></p>  <p>1 - Male Pipe 2 - Fem. Pipe Swivel</p>	<p><b>1504</b></p>  <p>1 - Female Pipe 2 - Fem. Pipe Swivel</p>	<p><b>1601</b></p>  <p>1 - Male Pipe 2 &amp; 3 - Fem. Pipe Sw.</p>
<p><b>1602</b></p>  <p>1 - Female Pipe 2 &amp; 3 - Fem. Pipe Sw.</p>	<p><b>1603</b></p>  <p>Fem. Pipe Swivel</p>						








**Adapter Unions**


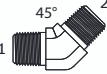
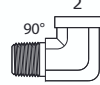
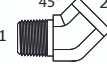


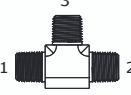
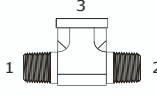
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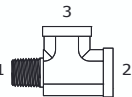
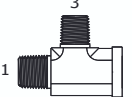
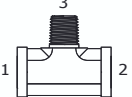
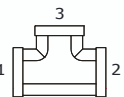
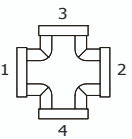
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**Pipe Fittings**








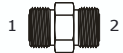

<p><b>404</b></p>  <p>1 - Bore 2 - NPT</p>	<p><b>5000</b></p>  <p>Straight 1 &amp; 2 - Female Pipe</p>	<p><b>5404</b></p>  <p>Straight 1 &amp; 2 - Male Pipe</p>	<p><b>5405</b></p>  <p>Straight Reducer 1 - Male Pipe 2 - Female Pipe</p>	<p><b>5406</b></p>  <p>Bushing 1 - Male Pipe 2 - Female Pipe</p>	<p><b>5406HP</b></p>  <p>Allen Head Plug</p>	<p><b>5406P</b></p>  <p>Pipe Plug</p>
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
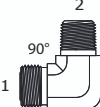
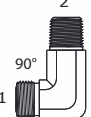
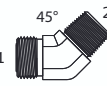
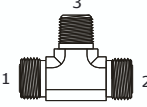
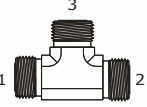
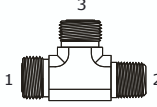
<p><b>5500</b></p>  <p>1 &amp; 2 - Male Pipe</p>	<p><b>5501</b></p>  <p>1 &amp; 2 - Male Pipe</p>	<p><b>5502</b></p>  <p>1 - Male Pipe 2 - Female Pipe</p>	<p><b>5503</b></p>  <p>1 - Male Pipe 2 - Female Pipe</p>	<p><b>5504</b></p>  <p>1 &amp; 2 - Female Pipe</p>	<p><b>5505</b></p>  <p>1 &amp; 2 - Female Pipe</p>	<p><b>5600</b></p>  <p>Male Pipe Tee</p>	<p><b>5601</b></p>  <p>1 &amp; 2 - Male Pipe 3 - Female Pipe</p>
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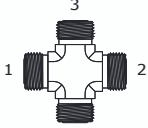
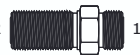
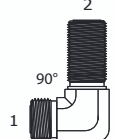
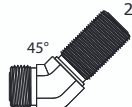
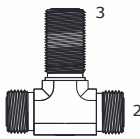
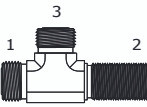


<p><b>5602</b></p>  <p>1 - Male Pipe 2 &amp; 3 - Female Pipe</p>	<p><b>5603</b></p>  <p>1 &amp; 3 - Male Pipe 2 - Female Pipe</p>	<p><b>5604</b></p>  <p>1 &amp; 2 - Female Pipe 3 - Male Pipe</p>	<p><b>5605</b></p>  <p>Female Pipe Tee</p>	<p><b>5652</b></p>  <p>Female Pipe Cross</p>
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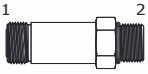
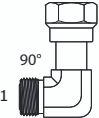
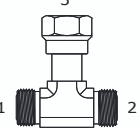
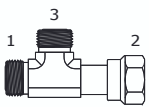
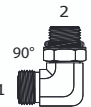
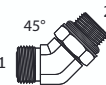
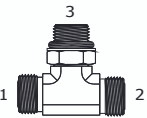
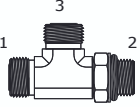
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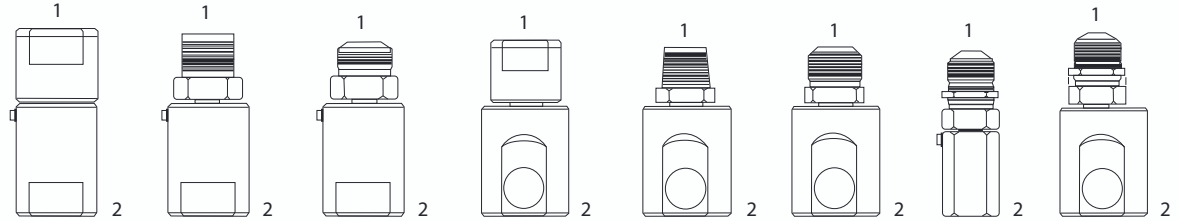
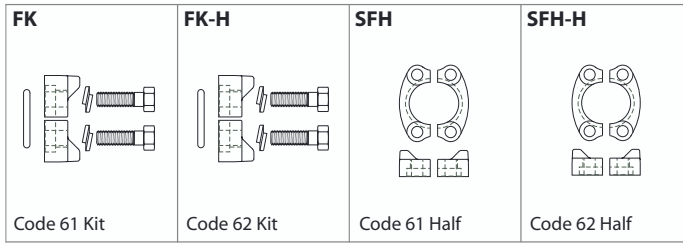


<p><b>OFS318</b></p>  <p>ORFS Tube Nut</p>	<p><b>OFS319</b></p>  <p>ORFS Tube Sleeve</p>	<p><b>OFS304-C</b></p>  <p>ORFS Cap</p>	<p><b>OFS306</b></p>  <p>Bulkhead Nut</p>	<p><b>OFS403</b></p>  <p>1 - Bore 2 - ORFS</p>	<p><b>OFS2403</b></p>  <p>Union 1 &amp; 2 - Male ORFS</p>	<p><b>OFS2404</b></p>  <p>1 - Male ORFS 2 - Male Pipe</p>
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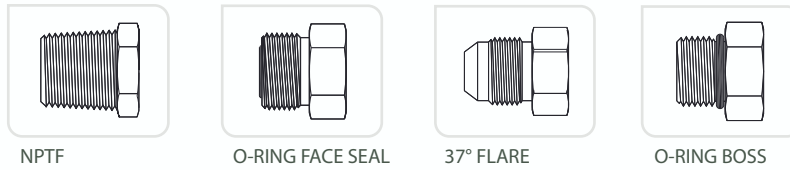
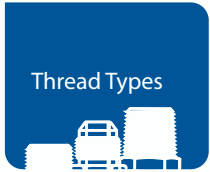
<p><b>OFS2408</b></p>  <p>Hex Plug</p>	<p><b>OFS2500</b></p>  <p>1 &amp; 2 - Male ORFS</p>	<p><b>OFS2501</b></p>  <p>1 - Male ORFS 2 - Male Pipe</p>	<p><b>OFS2501-L</b></p>  <p>1 - Male ORFS 2 - Male Pipe (Long)</p>	<p><b>OFS2503</b></p>  <p>1 - Male ORFS 2 - Male Pipe</p>	<p><b>OFS2601</b></p>  <p>1 &amp; 2 - Male ORFS 2 - Male Pipe</p>	<p><b>OFS2603</b></p>  <p>Male ORFS Tee</p>	<p><b>OFS2605</b></p>  <p>1 &amp; 3 - Male ORFS 2 - Male Pipe</p>
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<p><b>OFS2650</b></p>  <p>Male ORFS Cross</p>	<p><b>OFS2700</b></p>  <p>1 - Male ORFS 2 - Bulkhead ORFS</p>	<p><b>OFS2701</b></p>  <p>1 - Male ORFS 2 - Bulkhead ORFS</p>	<p><b>OFS2702</b></p>  <p>1 - Male ORFS 2 - Bulkhead ORFS</p>	<p><b>OFS2703</b></p>  <p>1 &amp; 2 - Male ORFS 3 - Bulkhead ORFS</p>	<p><b>OFS2704</b></p>  <p>1 &amp; 3 - Male ORFS 2 - Bulkhead ORFS</p>	<p><b>OFS4000</b></p>  <p>"O" Ring Face Seal</p>	<p><b>OFS6400</b></p>  <p>1 - Male ORFS 2 - Male "O" Ring</p>
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<p><b>OFS6400-L</b></p>  <p>1 - Male ORFS 2 - Male "O" Ring</p>	<p><b>OFS6500</b></p>  <p>1 - Male ORFS 2 - Female ORFS Sw</p>	<p><b>OFS6600</b></p>  <p>1 &amp; 2 - Male ORFS 3 - Female ORFS Sw</p>	<p><b>OFS6602</b></p>  <p>1 &amp; 3 - Male ORFS 2 - Female ORFS Sw</p>	<p><b>OFS6801</b></p>  <p>1 - Male ORFS 2 - Adj. "O" Ring</p>	<p><b>OFS6802</b></p>  <p>1 - Male ORFS 2 - Adj. "O" Ring</p>	<p><b>OFS6803</b></p>  <p>1 &amp; 2 - Male ORFS 3 - Adj. "O" Ring</p>	<p><b>OFS6804</b></p>  <p>1 &amp; 3 - Male ORFS 2 - Adj. "O" Ring</p>
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<b>9</b>	-	<b>SS</b>	-	<b>8</b>	-	<b>FP</b>	-	<b>50</b>	-	<b>FP</b>	-	<b>50</b>	-	<b>Z</b>	-	<b>V</b>
90° (omit for inline swivel)		Super swivel		Through hole size		Thread type • FP - Female Pipe • MP - Male Pipe • MJ - Male J.I.C. • MJB - J.I.C. Bulkhead		Thread size		Thread type • FP - Female Pipe • FJ - Female J.I.C. • FO - Female O.R.B. (90° only)		Thread size		Material and plating • NI - Electroless Plating • SS - 440 C stainless • Z - Zinc		Seal Material • AL - AFLAS • PFA - Teflon • V - Viton



DASH	FRACTION	PIPE	37° FLARE	O-RING BOSS	FACE SEAL
-02	1/8"	1/8-27	5/16-24	5/16-24	-
-03	3/16"	-	3/8-24	3/8-24	-
-04	1/4"	1/4-18	7/18-20	7/18-20	9/16-18
-05	5/16"	-	1/2-20	1/2-20	-
-06	3/8"	3/8-18	9/16-18	9/16-18	11/16-16
-07	-	-	-	-	-
-08	1/2"	3/4-16	3/4-16	3/4-16	13/16-16
-10	5/8"	7/8-14	7/8-14	7/8-14	1-14
-12	3/4"	1-1/16-2	1-1/16-12	1-1/16-12	1-3/16-21
-14	7/8"	1-3/16-12	1-3/16-12	1-3/16-12	-
-16	1"	1-5/16-12	1-5/16-12	1-5/16-12	1-7/16-12
-20	1 1/4"	1-5/8-12	1-5/8-12	1-5/8-12	1-11/16-12
-24	1 1/2"	1-7/8-12	1-7/8-12	1-7/8-12	2-12
-32	2"	2-1/2-12	2-1/2-12	2-1/2-12	-

Tuff-Guard  
Hose Sleeving

Part Number	Opened I.D. Dimension
TG-71	0.710
TG-77	0.775
TG-90	0.905
TG-100	1.000
TG-114	1.145
TG-125	1.255
TG-130	1.300
TG-138	1.380
TG-153	1.535
TG-159	1.590
TG-175	1.750

Part Number	Opened I.D. Dimension
TG-185	1.850
TG-207	2.075
TG-225	2.250
TG-238	2.385
TG-254	2.540
TG-264	2.640
TG-286	2.860
TG-296	2.965
TG-334	3.340
TG-366	3.665



Specifications:

- Material: Bulked woven continuous Nylon filament
- Temp: 250°F. max. ambient
- Flammability: 430°F. melting point MSHA approved (MSHA 1C-171/1)
- Color: Black - standard stock product. Optional colors available upon request
- Thickness: .090 inch wall
- Coil Length: 300 feet

Spiral-Guard  
Hose Sleeving

Part Number	Hose I.D.	1-Wire	2-Wire	Multi-Spiral	Dash Size
SGX16-SR	3/16 in	✓			-03
	1/4 in	✓			-04
SGX20-SR	1/4 in		✓		-04
	5/16 in	✓			-05
	3/8 in	✓	✓	✓	-06
	1/2 in	✓	✓	✓	-08
SGX32-SR	5/8 in	✓	✓		-10
	3/4 in	✓	✓	✓	-12
	1 in	✓	✓	✓	-16
SGX50-SR	1 1/4 in	✓	✓	✓	-20
	1 1/2 in	✓	✓	✓	-24
SGX75	2 in	✓	✓	✓	-32
SGX90	Bundling Multiple Hoses				



Specifications:

- Material: High Density Polyethylene (high molecular weight)
- Temp: -100°F. to +240°F.
- Flammability: 430°F. melting point MSHA approved (MSHA 1C-171/1)
- Color: Black - standard stock product. Optional colors available upon request
- Coil Length: 66 feet

DISTRIBUTED BY

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