

Hydraulic Adapters

STEEL PIPE ADAPTERS

CONFORMANCE

- SAE J518

MATERIALS

- Steel -per SAE J518 with either black phosphate finish or plated zinc with yellow dichromate or iridite dip. Stainless available upon request.

WORKING PRESSURES

The following table lists the recommended working pressures for steel Four-bolt Solid and Split Flange Fittings and Hose Ends manufactured in accordance with SAE standards J518 and J517. SAE recommends sufficient testing to be conducted to assure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. When using Flanged Fittings that have a threaded connection on one end, use the lower pressure rating of the two.

CAUTION: *Although many Four-bolt Flange Fittings have sufficient structural integrity to support the weight of many components, we recommend consulting with our technical support department*

for guidance in selection of parts for this purpose.

SAE J518 FOUR-BOLT CODE 61

FLANGE PRESSURE RATINGS		
Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-3/16 - 1.188	5000
-12	1-1/2 - 1.500	5000
-16	1-3/4 - 1.750	5000
-20	2 - 2.000	4000
-24	2-3/8 - 2.375	3000
-32	2-13/16 - 2.812	3000
-40	3-5/16 - 3.312	2500
-48	4 - 4.000	2000
-56	4-1/2 - 4.500	500

SAE J518 FOUR-BOLT CODE 62

FLANGE PRESSURE RATINGS		
Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-1/4 - 1.250	6000
-12	1-5/8 - 1.625	6000
-16	1-7/8 - 1.875	6000
-20	2-1/8 - 2.125	6000
-24	2-1/2 - 2.500	6000
-32	3-1/8 - 3.125	6000

Hydraulic Adapters

STEEL FLANGE ADAPTERS ASSEMBLY INSTRUCTIONS

RECOMMENDED SOLID FOUR-BOLT

- Step 1.** Inspect port area to be smooth and free of nicks, burrs, scratches, or contaminants.
- Step 2.** Lubricate the O-ring and place in flange head groove.
- Step 3.** Lubricate screw threads, slip lock washers onto screws, and insert screws into flange.
- Step 4.** Position flange on port and finger tighten all screws.
- Step 5.** Torque the screws in a figure eight sequence, incrementally until the appropriate torque value in the following table is achieved.

J518 CODE 61 AND CODE 62 FLANGE MINIMUM TORQUE VALUES

Dash Size	Port Size	Code 61 Foot/lbs.	Code 62 Foot/lbs.
-8	1/2	15 - 19	15 - 19
-12	3/4	20 - 29	25 - 33
-16	1	27 - 35	41 - 50
-20	1-1/4	35 - 46	62 - 75
-24	1-1/2	46 - 58	116 - 133
-32	2	53 - 67	200 - 217
-40	2-1/2	79	NA
-48	3	137	NA
-56	3-1/2	116	NA
-64	4	116	NA
-80	5	116	NA

RECOMMENDED SOLID FOUR-BOLT

- Step 1.** Follow steps 1 through 3 above, then proceed to the following steps.
- Step 2.** Position both flanges on port and turn one screw in each flange about three turns.
- Step 3.** Rotate each flange away from the port for sufficient clearance to position hose or fitting flange head on port.
- Step 4.** Close each flange until it properly captures flange head. Insert remaining screws and finger tighten.
- Step 5.** Torque the screws in a figure eight sequence, incrementally until the appropriate torque value in the proceeding table is achieved.

WHY WET TORQUE?

Due to the difference in plating types and thickness, materials, and thread quality of different components, the coefficient of friction varies greatly on any given assembly. Lubrication not only produces a more consistent coefficient of friction, it increases clamping force on sealing area with less torque on the threads. Over tightening causes threads to yield, deform and lose their ability to maintain an adequate load of clamping force on the sealing area. Extended operation and severe conditions cause further yielding which results in leaks. Over tightening is the single greatest cause for leaks in metal to metal seat hydraulic connections. It is our firm position, that to not wet torque, is to compromise consistency and quality for convenience.

Split Flange Adapters



Anchor Flange Company now manufacturers a complete range of Split Flange Adapters for use with Anchor's SAE J518 Split Flanges.

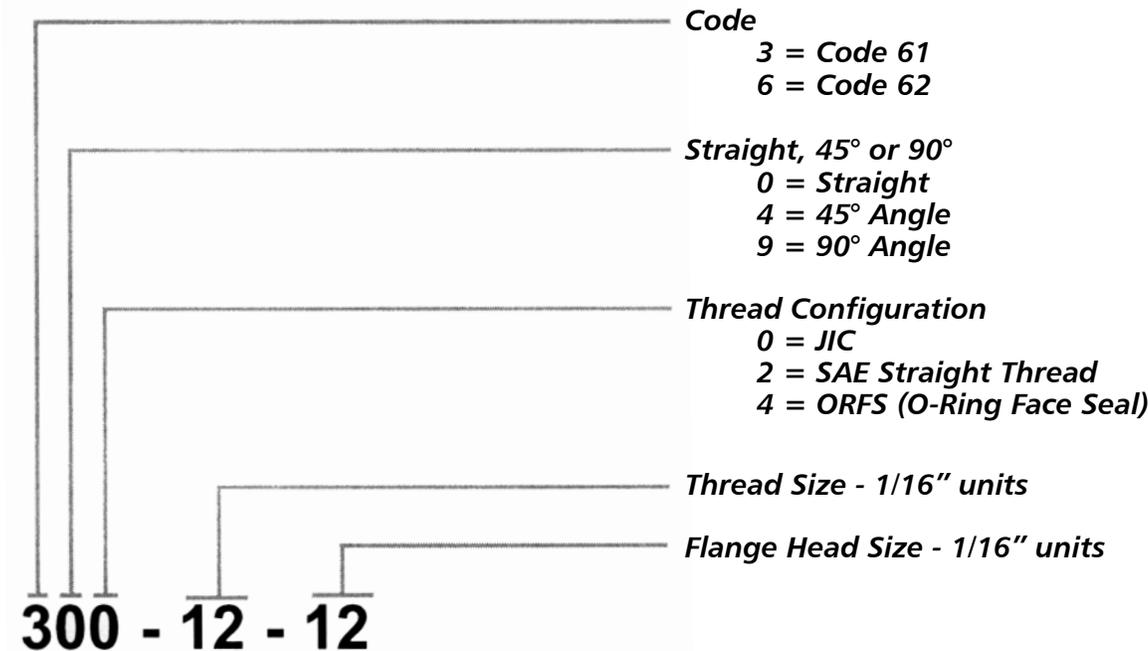
These offer you many cost-saving features:

- *One-piece carbon steel construction - simplifies installation, eliminates potential leak points*
- *Zinc dichromate finish - for high corrosion resistance*
- *Compact design - simplifies assembly*
- *Optional thread configurations - BSPP and NPTF - consult factor for availability*
- *Available off-the-shelf for immediate delivery*

**SAE
Zinc dichromate
finish**

**Hydraulic
Adapters**

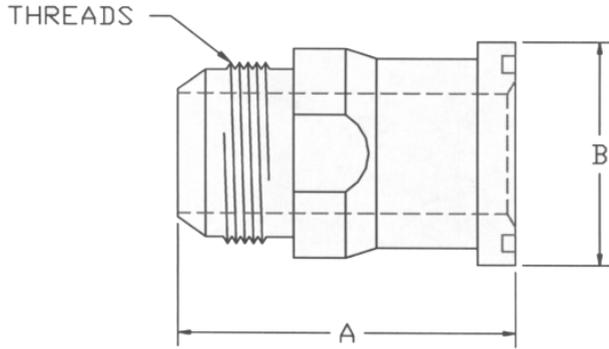
**Ordering System
(available off-the-shelf)**



For additional jump sizes, please call us.



JIC Thread



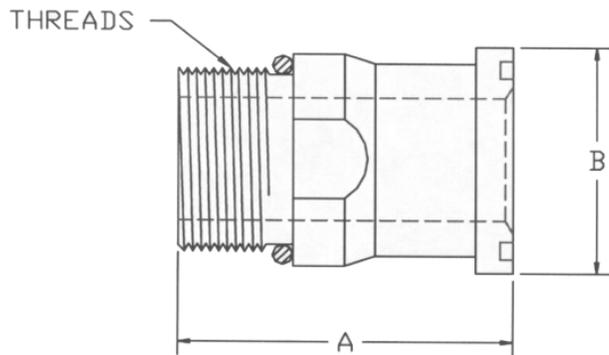
CODE 61

CODE 62

ANCHOR PART NO.	TUBE O.D.	FLANGE SIZE	A	B	THREAD
300-8-8	1/2	1/2	2.60	1.188	3/4-16
300-8-12	1/2	3/4	2.75	1.500	3/4-16
300-12-12	3/4	3/4	2.75	1.500	1 1/16-12
300-16-12	1	3/4	2.75	1.500	1 5/16-12
300-12-16	3/4	1	2.80	1.750	1 1/16-12
300-16-16	1	1	2.80	1.750	1 5/16-12
300-20-16	1 1/4	1	2.80	1.750	1 5/8-12
300-16-20	1	1 1/4	2.80	2.000	1 5/16-12
300-20-20	1 1/4	1 1/4	2.80	2.000	1 5/8-12
300-24-20	1 1/2	1 1/4	3.40	2.000	1 7/8-12
300-20-24	1 1/4	1 1/2	3.50	2.375	1 5/8-12
300-24-24	1 1/2	1 1/2	3.50	2.375	1 7/8-12
300-32-24	2	1 1/2	4.20	2.375	2 1/2-12
300-24-32	1 1/2	2	3.73	2.812	1 7/8-12
300-32-32	2	2	3.98	2.812	2 1/2-12
600-8-8	1/2	1/2	2.61	1.250	3/4-16
600-12-12	3/4	3/4	2.75	1.625	1 1/16-12
600-16-12	1	3/4	2.75	1.625	1 5/16-12
600-12-16	3/4	1	2.80	1.875	1 1/16-12
600-16-16	1	1	2.80	1.875	1 5/16-12
600-20-16	1 1/4	1	2.80	1.875	1 5/8-12
600-16-20	1	1 1/4	3.05	2.125	1 5/16-12
600-20-20	1 1/4	1 1/4	3.05	2.125	1 5/8-12
600-24-20	1 1/2	1 1/4	3.30	2.125	1 7/8-12
600-20-24	1 1/4	1 1/2	3.50	2.500	1 5/8-12
600-24-24	1 1/2	1 1/2	3.50	2.500	1 7/8-12
600-32-24	2	1 1/2	4.94	2.500	2 1/2-12
600-24-32	1 1/2	2	3.98	3.125	1 7/8-12
600-32-32	2	2	4.23	3.125	2 1/2-12

**Hydraulic
Adapters**

SAE Straight Thread



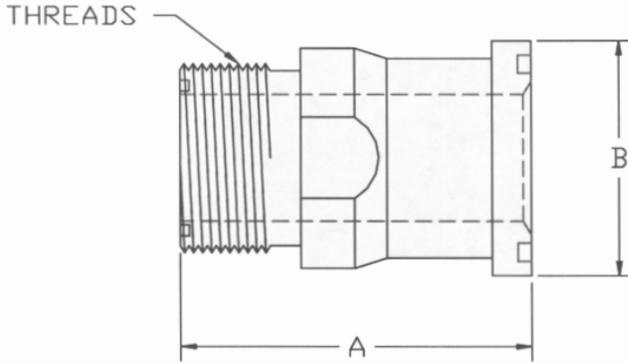
CODE 61

CODE 62

ANCHOR PART NO.	TUBE O.D.	FLANGE SIZE	A	B	THREAD
302-8-8	1/2	1/2	2.49	1.188	3/4-16
302-12-12	3/4	3/4	2.61	1.500	1 1/16-12
302-16-12	1	3/4	2.88	1.500	1 5/16-12
302-12-16	3/4	1	2.74	1.750	1 1/16-12
302-16-16	1	1	2.61	1.750	1 5/16-12
302-20-16	1 1/4	1	3.13	1.750	1 5/8-12
302-16-20	1	1 1/4	2.77	2.000	1 5/16-12
302-20-20	1 1/4	1 1/4	3.13	2.000	1 5/8-12
302-24-20	1 1/2	1 1/4	3.43	2.000	1 7/8-12
302-20-24	1 1/4	1 1/2	3.30	2.375	1 5/8-12
302-24-24	1 1/2	1 1/2	3.14	2.375	1 7/8-12
302-32-24	2	1 1/2	3.63	2.380	2 1/2-12
302-24-32	1 1/2	2	3.79	2.812	1 7/8-12
302-32-32	2	2	3.63	2.812	2 1/2-12
602-8-8	1/2	1/2	2.50	1.250	3/4-16
602-12-12	3/4	3/4	2.62	1.625	1 1/16-12
602-16-12	1	3/4	2.88	1.625	1 5/16-12
602-12-16	3/4	1	2.75	1.875	1 1/16-12
602-16-16	1	1	2.62	1.875	1 5/16-12
602-20-16	1 1/4	1	3.44	1.875	1 5/8-12
602-16-20	1	1 1/4	3.12	2.125	1 5/16-12
602-20-20	1 1/4	1 1/4	3.00	2.125	1 5/8-12
602-24-20	1 1/2	1 1/4	3.44	2.125	1 7/8-12
602-20-24	1 1/4	1 1/2	3.31	2.500	1 5/8-12
602-24-24	1 1/2	1 1/2	3.19	2.500	1 7/8-12
602-32-24	2	1 1/2	4.34	2.500	2 1/2-12
602-24-32	1 1/2	2	3.90	3.125	1 7/8-12
602-32-32	2	2	3.75	3.125	2 1/2-12



ORFS Thread

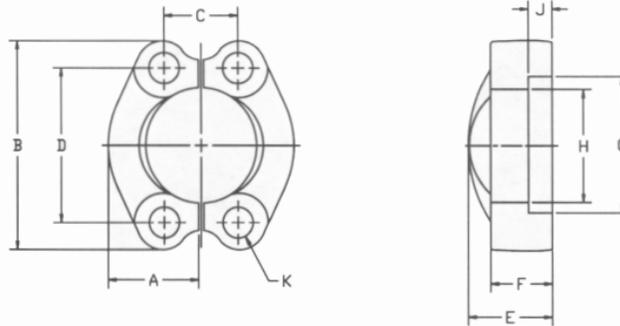


CODE 61

CODE 62

ANCHOR PART NO.	TUBE O.D.	FLANGE SIZE	A	B	THREAD
304-8-8	1/2	1/2	2.45	1.188	13/16-16
304-12-12	3/4	3/4	2.75	1.500	1 3/16-12
304-16-12	1	3/4	2.75	1.500	1 7/16-12
304-12-16	3/4	1	2.80	1.750	1 3/16-12
304-16-16	1	1	2.80	1.750	1 7/16-12
304-20-16	1 1/4	1	2.80	1.750	1 11/16-12
304-16-20	1	1 1/4	2.80	2.000	1 7/16-12
304-20-20	1 1/4	1 1/4	2.80	2.000	1 11/16-12
304-24-20	1 1/2	1 1/4	3.20	2.000	2-12
304-20-24	1 1/4	1 1/2	3.50	2.375	1 11/16-12
304-24-24	1 1/2	1 1/2	3.50	2.375	2-12
304-24-32	1 1/2	2	3.33	2.812	2-12
604-8-8	1/2	1/2	2.58	1.250	13/16-16
604-12-12	3/4	3/4	2.75	1.625	1 3/16-12
604-16-12	1	3/4	2.75	1.625	1 7/16-12
604-12-16	3/4	1	2.80	1.875	1 3/16-12
604-16-16	1	1	2.80	1.875	1 7/16-12
604-20-16	1 1/4	1	3.20	1.875	1 11/16-12
604-16-20	1	1 1/4	3.05	2.125	1 7/16-12
604-20-20	1 1/4	1 1/4	3.05	2.125	1 11/16-12
604-24-20	1 1/2	1 1/4	3.30	2.125	2-12
604-20-24	1 1/4	1 1/2	3.50	2.500	1 11/16-12
604-24-24	1 1/2	1 1/2	3.50	2.500	2-12
604-24-32	1 1/2	2	3.581	3.125	2-12

Split Flange Kits



CODE 61

CODE 62

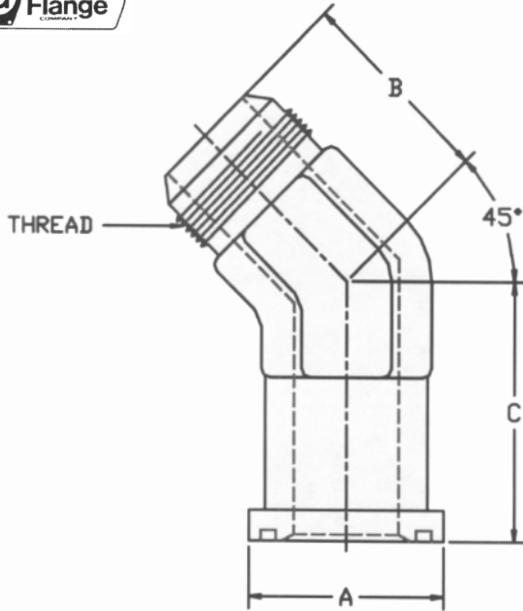
FLANGE HALF NO.	*KIT	FLANGE SIZE	A	B	D	E	F	G	H	J	K	O-RING	HHCS
8SF-2	8SFO	0.50	0.86	2.12	1.50	0.75	0.50	1.22	0.96	0.245	0.344	210	5/16-18 X 1.25
12SF-2	12SFO	0.75	0.98	2.56	1.88	0.88	0.56	1.53	1.27	0.245	0.406	214	3/8-16 X 1.25
16SF-2	16SFO	1.00	1.11	2.75	2.06	0.94	0.62	1.78	1.52	0.295	0.406	219	3/8-16 X 1.25
20SF-2	20SFO	1.25	1.39	3.12	2.31	0.88	0.56	2.03	1.72	0.295	0.469	222	7/16-14 X 1.50
24SF-2	24SFO	1.50	1.58	3.69	2.75	1.00	0.62	2.41	2.00	0.295	0.531	225	1/2-13 X 1.50
32SF-2	32SFO	2.00	1.86	4.00	3.06	1.03	0.62	2.84	2.47	0.355	0.531	228	1/2-13 X 1.50
40SF-2	40SFO	2.50	2.09	4.50	3.50	1.50	0.75	3.34	2.95	0.355	0.531	232	1/2-13 X 1.75
48SF-2	48SFO	3.00	2.53	5.31	4.19	1.62	0.88	4.03	3.58	0.355	0.656	237	5/8-11 X 1.75
56SF-2	56SFO	3.50	2.70	6.00	4.75	1.12	0.88	4.53	4.03	0.422	0.656	241	5/8-11 X 2.00
64SF-2	64SFO	4.00	2.95	6.38	5.13	1.38	1.00	5.03	4.53	0.422	0.656	245	5/8-11 X 2.00
8SFX-2	8SFXO	0.50	0.89	2.22	1.59	0.88	0.62	1.28	.970	0.285	0.344	210	5/16-18 X 1.25
12SFX-2	12SFXO	0.75	1.14	2.81	2.00	1.12	0.75	1.66	1.28	0.325	0.406	214	3/8-16 X 1.50
16SFX-2	16SFXO	1.00	1.33	3.19	2.25	1.31	0.94	1.91	1.53	0.355	0.469	219	7/16-14 X 1.75
20SFX-2	20SFXO	1.25	1.48	3.75	2.63	1.50	1.06	2.16	1.75	0.385	0.531	222	1/2-13 X 1.75
24SFX-2	24SFXO	1.50	1.83	4.44	3.13	1.69	1.19	2.53	2.03	0.475	0.656	225	5/8-11 X 2.25
32SFX-2	32SFXO	2.00	2.20	5.25	3.81	2.06	1.44	3.16	2.66	0.475	0.781	228	3/4-10 X 2.75

*When ordering this part # you will receive: (2) split flange halves, (4) hex head bolts and lockwashers, and (1) Buna N O-Ring.



**Hydraulic
Adapters**

45° JIC Thread

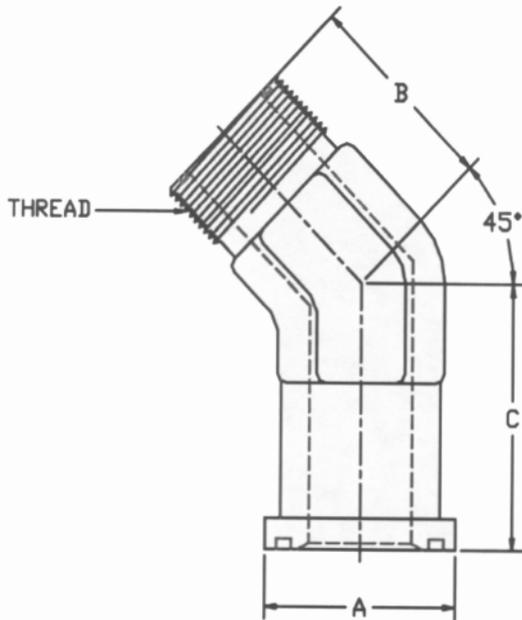


CODE 61
CODE 62

ANCHOR PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
340-12-12	3/4	3/4	1.500	1.28	1.58	1 1/16-12
340-16-16	1	1	1.750	1.47	1.85	1 5/16-12
340-20-20	1 1/4	1 1/4	2.000	1.59	2.04	1 5/8-12
340-24-24	1 1/2	1 1/2	2.375	1.78	2.38	1 7/8-12
340-32-32	2	2	2.812	2.22	3.00	2 1/2-12
640-12-12	3/4	3/4	1.625	1.28	1.58	1 1/16-12
640-16-16	1	1	1.875	1.47	1.85	1 5/16-12
640-20-20	1 1/4	1 1/4	2.125	1.59	2.04	1 5/8-12
640-24-24	1 1/2	1 1/2	2.500	1.78	2.38	1 7/8-12
640-32-32	2	2	3.125	2.22	3.00	2 1/2-12

Hydraulic
Adapters

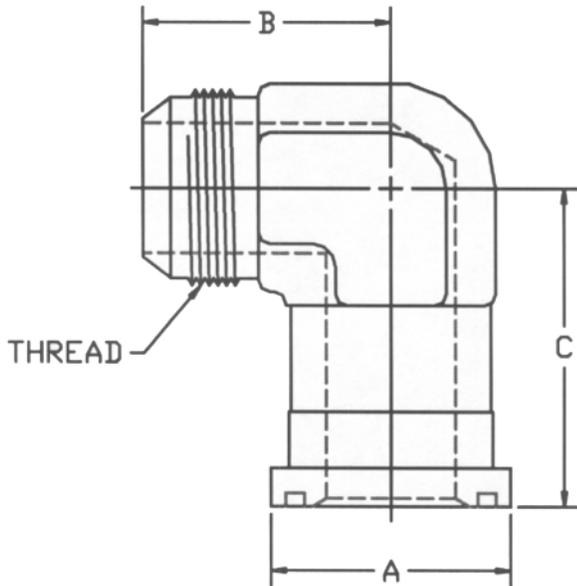
45° ORFS Thread



CODE 61
CODE 62

ANCHOR PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
344-12-12	3/4	3/4	1.500	1.28	1.58	1 3/16-12
344-16-16	1	1	1.750	1.47	1.85	1 7/16-12
344-20-20	1 1/4	1 1/4	2.000	1.59	2.04	1 11/16-12
344-24-24	1 1/2	1 1/2	2.375	1.78	2.38	2-12
644-12-12	3/4	3/4	1.625	1.28	1.58	1 3/16-12
644-16-16	1	1	1.875	1.47	1.85	1 7/16-12
644-20-20	1 1/4	1 1/4	2.125	1.59	2.04	1 11/16-12
644-24-24	1 1/2	1 1/2	2.500	1.78	2.38	2-12

90° JIC Thread



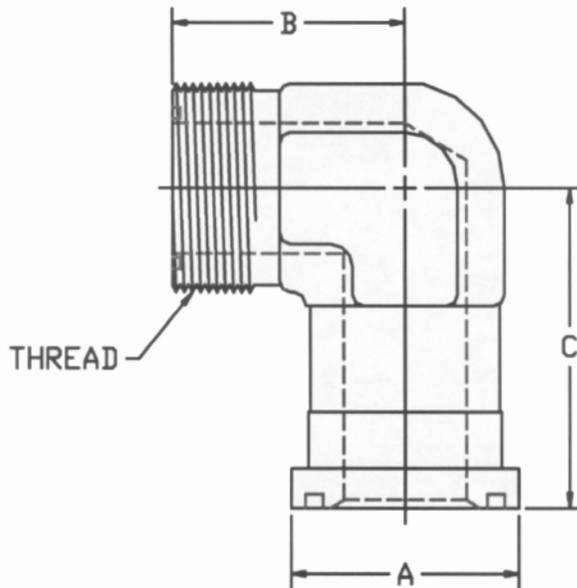
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PART NUMBER	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
390-8-12	1/2	3/4	1.500	1.660	2.130	3/4-16
390-12-12	3/4	3/4	1.500	1.660	2.130	1 1/16-12
390-16-12	1	3/4	1.500	1.660	2.130	1 5/16-12
390-12-16	3/4	1	1.750	1.810	2.370	1 1/16-12
390-16-16	1	1	1.750	1.810	2.370	1 5/16-12
390-20-16	1 1/4	1	1.750	1.810	2.370	1 5/8-12
390-16-20	1	1 1/4	2.000	2.060	2.620	1 5/16-12
390-20-20	1 1/4	1 1/4	2.000	2.060	2.620	1 5/8-12
390-20-24	1 1/4	1 1/2	2.375	2.330	3.150	1 5/8-12
390-24-24	1 1/2	1 1/2	2.375	2.330	3.150	1 7/8-12
390-32-24	2	1 1/2	2.375	2.330	3.150	2 1/2-12
390-24-32	1 1/2	2	2.812	3.060	4.250	1 7/8-12
390-32-32	2	2	2.812	3.060	4.250	2 1/2-12
690-8-8	1/2	1/2	1.250	1.660	2.130	3/4-16
690-8-12	1/2	3/4	1.625	1.660	2.130	3/4-16
690-12-12	3/4	3/4	1.625	1.660	2.130	1 1/16-12
690-16-12	1	3/4	1.625	1.660	2.130	1 5/16-12
690-12-16	3/4	1	1.875	1.810	2.370	1 1/16-12
690-16-16	1	1	1.875	1.810	2.370	1 5/16-12
690-20-16	1 1/4	1	1.875	1.810	2.370	1 5/8-12
690-16-20	1	1 1/4	2.125	2.060	2.760	1 5/16-12
690-20-20	1 1/4	1 1/4	2.125	2.060	2.760	1 5/8-12
690-24-20	1 1/2	1 1/4	2.125	2.190	2.760	1 7/8-12
690-20-24	1 1/4	1 1/2	2.500	2.330	3.150	1 5/8-12
690-24-24	1 1/2	1 1/2	2.500	2.330	3.150	1 7/8-12
690-32-24	2	1 1/2	2.500	3.060	4.250	2 1/2-12
690-24-32	1 1/2	2	3.125	3.060	4.250	1 7/8-12
690-32-32	2	2	3.125	3.060	4.250	2 1/2-12

CODE 62

Hydraulic
Adapters

90° ORFS Thread



CODE 61

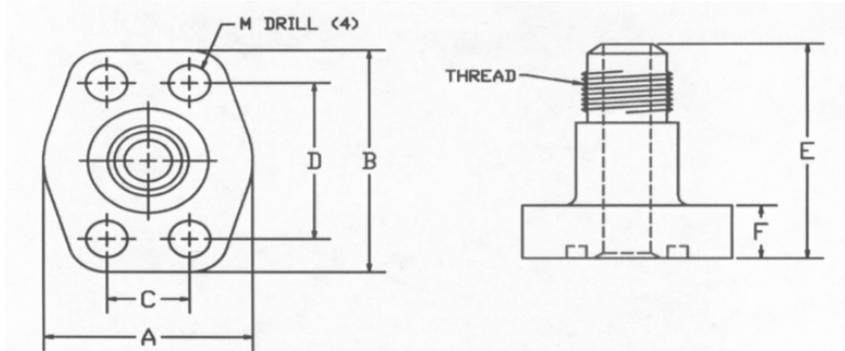
PART NUMBER	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
394-12-12	3/4	3/4	1.500	2.13	1.66	1 3/16-12
394-16-12	1	3/4	1.500	2.13	1.66	1 7/16-12
394-12-16	3/4	1	1.750	2.37	1.81	1 3/16-12
394-16-16	1	1	1.750	2.37	1.81	1 7/16-12
394-20-16	1 1/4	1	1.750	2.37	1.81	1 11/16-12
394-16-20	1	1 1/4	2.000	2.62	2.06	1 7/16-12
394-20-20	1 1/4	1 1/4	2.000	2.62	2.06	1 11/16-12
394-24-20	1 1/2	1 1/4	2.000	2.62	2.06	2-12
394-20-24	1 1/4	1 1/2	2.375	3.15	2.33	1 11/16-12
394-24-24	1 1/2	1 1/2	2.375	3.15	2.33	2-12
694-12-12	3/4	3/4	1.625	2.13	1.66	1 3/16-12
694-16-12	1	3/4	1.625	2.13	1.66	1 7/16-12
694-12-16	3/4	1	1.875	2.37	1.81	1 3/16-12
694-16-16	1	1	1.875	2.37	1.81	1 7/16-12
694-20-16	1 1/4	1	1.875	2.37	1.81	1 11/16-12
694-16-20	1	1 1/4	2.125	2.76	2.06	1 7/16-12
694-20-20	1 1/4	1 1/4	2.125	2.76	2.06	1 11/16-12
694-24-20	1 1/2	1 1/4	2.125	2.76	2.06	2-12
694-20-24	1 1/4	1 1/2	2.500	3.15	2.33	1 11/16-12
694-24-24	1 1/2	1 1/2	2.500	3.15	2.33	2-12

CODE 62





JIC x 4 Bolt

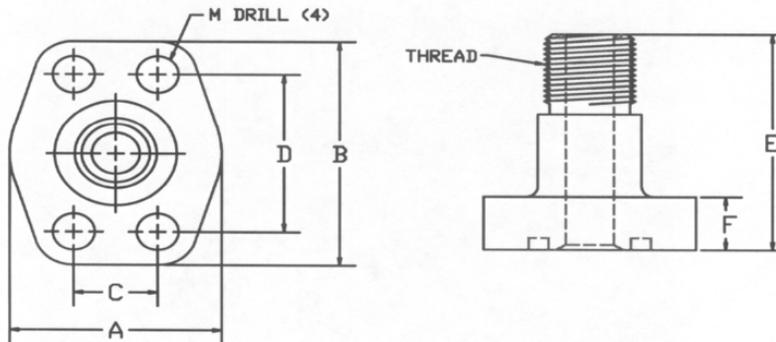


ANCHOR PART NO.	FLANGE SIZE	CODE 61								
		A	B	C	D	E	F	M	THREAD	
W300-8-8	.50	1.81	2.13	.688	1.500	1.75	.630	.344	3/4-16	
W300-12-12	.75	1.97	2.56	.875	1.875	2.12	.710	.413	1 1/16-12	
W300-16-16	1.00	2.17	2.75	1.031	2.062	2.18	.710	.413	1 5/16-12	
W300-20-20	1.25	2.68	3.12	1.188	2.312	2.44	.830	.469	1 5/8-12	
W300-24-24	1.50	3.07	3.66	1.406	2.750	2.81	.980	.531	1 7/8-12	
W600-8-8	.50	1.81	2.21	.719	1.594	1.75	.630	.344	3/4-16	
W600-12-12	.75	2.17	2.80	.937	2.000	2.31	.830	.413	1 1/16-12	
W600-16-16	1.00	2.56	3.19	1.093	2.250	2.62	.980	.492	1 5/16-12	
W600-20-20	1.25	3.07	3.75	1.250	2.625	2.81	1.060	.531	1 5/8-12	
W600-24-24	1.50	3.70	4.41	1.437	3.125	3.25	1.180	.656	1 7/8-12	

Hydraulic Adapters



ORFS x 4 Bolt



ANCHOR PART NO.	FLANGE SIZE	CODE 61								
		A	B	C	D	E	F	M	THREAD	
W304-8-8	.50	1.81	2.13	.688	1.500	1.75	.630	.344	13/16-16	
W304-12-12	.75	1.97	2.56	.875	1.875	2.00	.710	.413	1 3/16-12	
W304-16-16	1.00	2.17	2.75	1.031	2.062	2.00	.710	.413	1 7/16-12	
W304-20-20	1.25	2.68	3.12	1.188	2.312	2.25	.830	.469	1 11/16-12	
W304-24-24	1.50	3.07	3.66	1.406	2.750	2.50	.980	.531	2-12	
W604-8-8	.50	1.81	2.21	.719	1.594	1.75	.630	.344	13/16-16	
W604-12-12	.75	2.17	2.80	.937	2.000	2.25	.830	.413	1 3/16-12	
W604-16-16	1.00	2.56	3.19	1.093	2.250	2.50	.980	.492	1 7/16-12	
W604-20-20	1.25	3.07	3.75	1.250	2.625	2.62	1.060	.531	1 11/16-12	
W604-24-24	1.50	3.70	4.41	1.437	3.125	2.88	1.180	.656	2-12	

