

SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE • FLANGE PLATES • CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE • FLANGE PLATES • CONNECTOR BLOCKS **Daman Products Company Inc.** SPLIT FLANGE SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE • FLANGE PLATES • CONNECTOR BLOCKS • SPLIT FLANGE **Hydraulic Flange Products** FLANGE HEADS FLANGE ADAPTORS • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE • FLANGE PLATES CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE FLANGE PLATES • CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS SOCKET WELD FLANGE • BUTT WELD FLANGE FEMALE PORT FLANGE • FLANGE PLATES • CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE • FLANGE PLATES • CONNECTOR BLOCKS SPLIT FLANGE FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE BUTT WELD FLANGE • FEMALE PORT FLANGE • FLANGE PLATES CONNECTOR



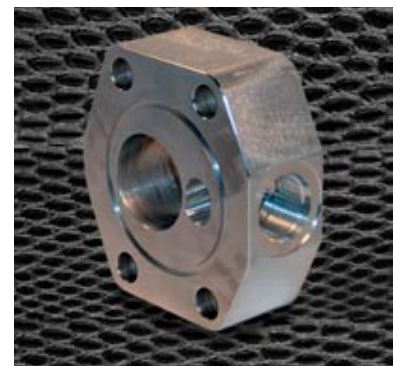
ELD FLANGE • FEMALE PORT FLANGE WELD FLANGE • BUTT WELD FLANGE INGE • BUTT WELD FLANGE FEMALE ADAPTORS • FLANGE HEADS FLANGE CONNECTOR BLOCKS • SPLIT FLANGE FLANGE FLANGE PLATES CONNECTOR FLANGE FEMALE PORT FLANGE FLANGE ANGE • BUTT WELD FLANGE • FEMALE ADPTORS • SOCKET WELD FLANGE BUTT FLANGE HEADS FLANGE ADAPTORS SOCKET JACKS • SPLIT FLANGE FLANGE HEADS PLATES • CONNECTOR BLOCKS • SPLIT CONNECTOR BLOCKS SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE • FLANGE PLATES CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE FLANGE PLATES • CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT FLANGE FLANGE PLATES • CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE FEMALE PORT FLANGE • FLANGE PLATES CONNECTOR BLOCKS • SPLIT FLANGE • FLANGE HEADS FLANGE ADAPTORS • SOCKET WELD FLANGE • BUTT WELD FLANGE • FEMALE PORT



Professional experience, unmatched customer service and advanced delivery processes distinguish Daman Product's flange product line. With over 4,000 parts in inventory, we offer a complete range of standard and custom-designed flanges for the fluid power industry.

An Intelligent Part Number system – a hallmark of all Daman products – streamlines inventory and ordering processes. Plus, we have extended our legacy of engineered packaging to the flange shipping process. Parts arrive undamaged and free of rust or other debris. The packaging system also simplifies storage of inventory.

At Daman, we have been designing and building hydraulic valve manifolds and related products since 1976. We continuously improve our systems and operations to ensure we bring innovation and reliable solutions to every customer. In addition, we deliver long-term, reliable service that exceeds our customers' expectations. That is why our customers recognize Daman as a competent, knowledgeable strategic partner.



Custom Flanges

We realize that our customers have different specifications and applications for their flange components. And we welcome the challenge of creating custom parts that precisely integrate the simplest or most complex circuitry. With our expertise in designing custom hydraulic components, we can provide unique solutions that incorporate relief valves, inline check valves, load sense, and counter-balance valves into flange products. Whether you need steel, ductile iron or aluminum flanges, you will find the right flange part for your application at Daman.

Hydraulic Flange Products Table of Contents

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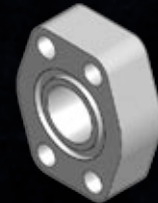
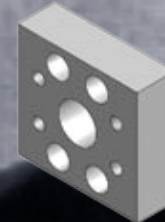
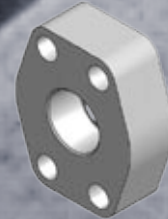
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64-123 FLANGES

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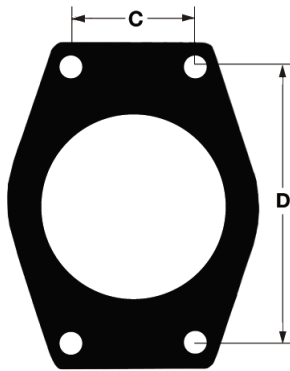
CONSIDER CUSTOM
APPLICATION FLANGES
CALL 800.959.7841

Technical Information

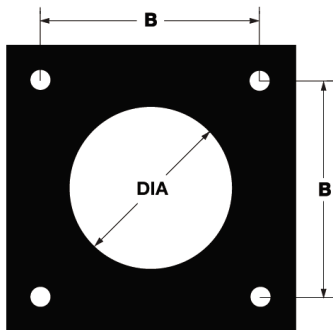
SIZE TABLE					
DASH NUMBER	NOMINAL SIZE	THREAD OR SOCKET SPECIFICATION			
		NPTF	SAE ST. THD.	PIPE SOC.	TUBE SOC.
-04	0.250	0.250-18.0	0.438-20	N/A	N/A
-08	0.500	0.500-14.0	0.750-16	0.855	0.502
-12	0.750	0.750-14.0	1.062-12	1.062	0.752
-16	1.000	1.000-11.5	1.312-12	1.328	1.002
-20	1.250	1.250-11.5	1.625-12	1.672	1.252
-24	1.500	1.500-11.5	1.875-12	1.922	1.502
-32	2.000	2.000-11.5	2.500-12	2.406	2.002
-40	2.500	2.500-8	N/A	2.906	2.502
-48	3.000	3.000-8	N/A	3.547	3.002
-56	3.500	3.500-8	N/A	4.047	3.502
-64	4.000	4.000-8	N/A	4.578	4.002
-80	5.000	N/A	N/A	5.641	5.002

SAE FLANGE PATTERN							
DASH NUMBER	NOMINAL SIZE	CODE 61			CODE 62		
		MTG HOLE CENTERS		THREAD	MTG HOLE CENTERS		THREAD
		DIM C	DIM D		DIM C	DIM D	
-08	0.500	0.688	1.500	0.313-18	0.718	1.594	0.313-18
-12	0.750	0.875	1.875	0.375-16	0.937	2.000	0.375-16
-16	1.000	1.031	2.062	0.375-16	1.093	2.250	0.438-14
-20	1.250	1.188	2.312	0.438-14	1.250	2.625	0.500-13
-24	1.500	1.406	2.750	0.500-13	1.437	3.125	0.625-11
-32	2.000	1.688	3.062	0.500-13	1.750	3.812	0.750-10
-40	2.500	2.000	3.500	0.500-13	2.312*	4.875*	0.875-9*
-48	3.000	2.438	4.188	0.625-11	2.812*	6.000*	1.125-7*
-56	3.500	2.750	4.750	0.625-11	N/A	N/A	N/A
-64	4.000	3.062	5.125	0.625-11	N/A	N/A	N/A
-80	5.000	3.625	6.000	0.625-11	N/A	N/A	N/A

* These sizes are not covered by nor manufactured to SAE J518 specifications.



SQUARE FLANGE PATTERN							
DASH NUMBER	NOMINAL SIZE	3000 SERIES			6000 SERIES		
		MTG HOLE CENTERS	DIA	THREAD	MTG HOLE CENTERS	DIA	THREAD
-08	0.500	1.438	0.50	0.375-16	1.438	0.50	0.375-16
-12	0.750	1.438	0.75	0.375-16	1.750	0.62-0.75	0.375-16
-16	1.000	2.000	1.00	0.500-13	2.000	0.81-1.00	0.500-13
-20	1.250	2.000	1.25	0.500-13	2.750	1.16-1.25	0.625-11
-24	1.500	2.750	1.50	0.625-11	2.750	1.34-1.50	0.625-11
-32	2.000	2.750	1.94-2.00	0.625-11	3.500	1.69-2.00	0.750-10
-40	2.500	3.750	2.44-2.50	0.875-9	3.750	2.12-2.50	0.875-9
-48	3.000	3.750	2.88-3.00	0.875-9	4.750	2.62-3.00	1.000-8
-56	3.500	4.250	3.38-3.50	0.875-9	5.500	3.00-3.50	1.250-7
-64	4.000	5.000	3.88-4.00	1.000-8	6.000	3.44-4.00	1.250-7
-80	5.000	6.000	4.81-5.00	1.000-8	7.250	4.31-5.00	1.500-6



Technical Information

Pressure Ratings of SAE Flanges

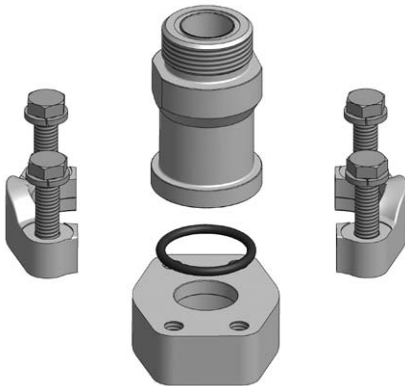
CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	1/2"	5000	35	24	32
-12	3/4"	5000	35	44	70
-16	1"	4600	32	44	70
-20	1 1/4"	4000	28	68	70
-24	1 1/2"	3000	21	111	130
-32	2"	3000	21	111	130
-40	2 1/2"	2500	17.5	111	130
-48	3"	2300	16	218	295
-56	3 1/2"	500	3.5	218	295
-64	4"	500	3.5	218	295
-80	5"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	1/2"	6000	40	24	32
-12	3/4"	6000	40	44	70
-16	1"	6000	40	68	130
-20	1 1/4"	6000	40	111	130
-24	1 1/2"	6000	40	218	295
-32	2"	6000	40	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

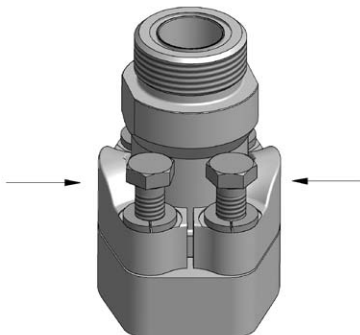
Split Flange Clamp Assembly

1 Clean the sealing surfaces and make certain they are free from nicks, scratches and burrs. Foreign material prevents a proper seal.

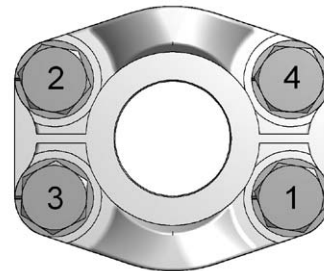


2 Lubricate the O-ring and ensure that it is properly installed as to prevent damage during installation.

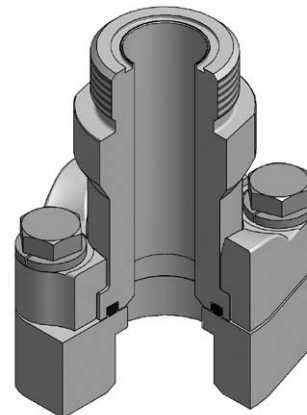
3 Push the flange clamps towards the flange head and screw fasteners into flange pad. Continue to screw the fasteners until their heads just meet the split flange surface.



4 Torque the fasteners in diagonal sequence, in small increments, until final torque level is achieved. Torque values for flange connections listed above. Notice that the torque values vary according to size and fastener type.



Daman Products split flange connections are manufactured according to SAE J518-1 and -2, as well as ISO 6162-1 and -2. These standards control dimensions, tolerances and plating. Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends, could reduce maximum working pressure.



Mounting Hardware - Screws and O-rings



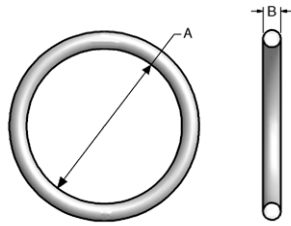
Ordering Information

185-F	Material	Screw Thread	Screw Length	Screw Type	O-ring Size																																																																																																																																										
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Kit includes: (4) socket head or hex head screws with washers, and (1) Viton O-ring.
 Do not use these pages to order flanges with kits. To order flanges with kits, refer to the flange page and add "U" or "M" as described. These pages allow for the purchasing of new or replacement kits for maintenance and other applications.

*000 = No O-ring

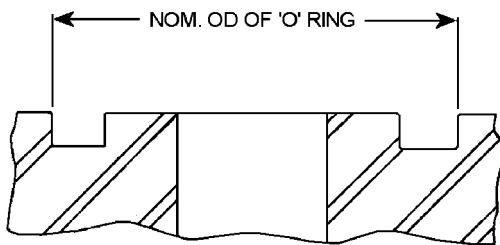
Mounting Hardware - O-rings



All measurements are nominal.

90 DUROMETER VITON O-RING			
O-RING	FLANGE SIZE	A	B
210	0.50	0.75	0.125
214	0.75	1.00	0.125
219	1.00	1.31	0.125
222	1.25	1.50	0.125
225	1.50	1.88	0.125
228	2.00	2.25	0.125
232	2.50	2.75	0.125
236*	3.00	3.25	0.125
237	3.00	3.38	0.125
241	3.50	3.88	0.125
245	4.00	4.38	0.125
253	5.00	5.38	0.125
342*	3.50	3.63	0.188
346*	4.00	4.13	0.188
353*	5.00	5.00	0.188

STANDARD FLUID POWER O-RING GROOVE



*Square flanges only.

Ordering Information

400-	O-ring Size	-	Compound	-	Seal
	O-ring Size		Compound		Seal
	210		V Viton®		ORING
	214				
	219				
	222				
	225				
	228				
	232				
	236				
	237				
	241				
	245				
	253				
	342				
	346				
	353				

Do not use these pages to order flanges with kits. To order flanges with kits, refer to the flange page and add "U" or "M" as described. These pages allow for the purchasing of new or replacement kits for maintenance and other applications.



INTELLIGENT PART NUMBER SYSTEM

FLANGE CLAMPS



Split Flange

8-9



Captive Flange

10-11



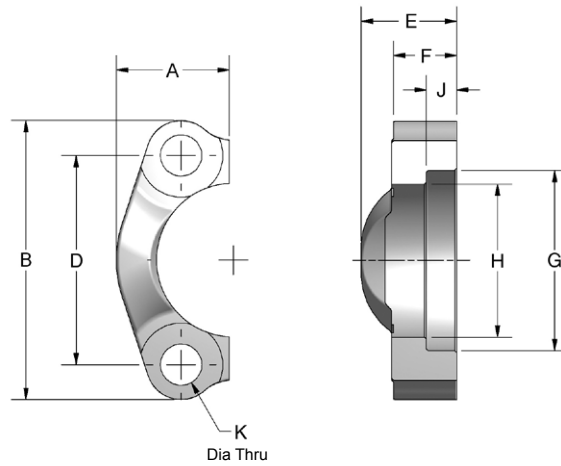
Split Flange, Caterpillar®/ PTX

12-13



**CONSIDER CUSTOM
APPLICATION FLANGES
CALL 800.959.7841**

Split Flange



Ordering Information

FC	Flange Size	Material	Product Type	Rating Code	Mounting																																																				
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Mounting options ("U" and "M") include: (2) Split Flange halves, (4) hex head screws with washers, and (1) Viton O-ring.
 Mounting options ("X" and "Y") include: (1) Split Flange half only.
 Split Flange halves are silver trivalent plated.

Split Flange

CODE 61 SPLIT FLANGE													
FLANGE SIZE	A	B	D	E	F	G	H	J	K DIA THRU		MOUNTING HARDWARE - HHCS		
									Mounting U or X	Mounting M or Y	O-RING	Mounting U	Mounting M
0.50	.86	2.12	1.500	.75	.50	1.219	.955	.245	.344	8.5mm	210	0.313-18x1.25	M8-1.25x30
0.75	.98	2.56	1.875	.88	.56	1.531	1.265	.245	.406	10.5mm	214	0.375-16x1.25	M10-1.5x30
1.00	1.11	2.75	2.062	.94	.62	1.781	1.515	.295	.406	10.5mm	219	0.375-16x1.25	M10-1.5x30
1.25	1.39	3.12	2.312	.88	.56	2.031	1.720	.295	.469	10.5mm	222	0.438-14x1.50	M10-1.5x40
1.50	1.58	3.69	2.750	1.00	.62	2.406	2.000	.295	.531	12.5mm	225	0.500-13x1.50	M12-1.75x40
2.00	1.86	4.00	3.062	1.03	.62	2.844	2.470	.355	.531	12.5mm	228	0.500-13x1.50	M12-1.75x40
2.50	2.09	4.50	3.500	1.50	.75	3.344	2.950	.355	.531	12.5mm	232	0.500-13x1.75	M12-1.75x45
3.00	2.53	5.31	4.188	1.62	.88	4.031	3.580	.355	.656	16.5mm	237	0.625-11x1.75	M16-2.0x45
3.50	2.70	6.00	4.750	1.12	.88	4.531	4.030	.422	.656	16.5mm	241	0.625-11x2.00	M16-2.0x50
4.00	2.95	6.38	5.125	1.38	1.00	5.031	4.530	.422	.656	16.5mm	245	0.625-11x2.00	M16-2.0x50

Mounting options ("U" and "M") include: (2) Split Flange halves, (4) hex head screws with washers, and (1) Viton O-ring.
 Mounting options ("X" and "Y") include: (1) Split Flange half only.
 Split Flange halves are silver trivalent plated.

CODE 62 SPLIT FLANGE													
FLANGE SIZE	A	B	D	E	F	G	H	J	K DIA THRU		MOUNTING HARDWARE - HHCS		
									Mounting U or X	Mounting M or Y	O-RING	Mounting U	Mounting M
0.50	.89	2.22	1.594	.88	.62	1.281	.970	.285	.344	8.5mm	210	0.313-18x1.25	M8-1.25x30
0.75	1.14	2.81	2.000	1.12	.75	1.656	1.280	.325	.406	10.5mm	214	0.375-16x1.50	M10-1.5x40
1.00	1.33	3.19	2.250	1.31	.94	1.906	1.530	.355	.469	12.5mm	219	0.438-14x1.75	M12-1.75x45
1.25	1.48	3.75	2.625	1.50	1.06	2.156	1.750	.385	.531	12.5mm	222	0.500-13x1.75	M12-1.75x45
1.50	1.83	4.44	3.125	1.69	1.19	2.531	2.030	.475	.656	16.5mm	225	0.625-11x2.25	M16-2.0x55
2.00	2.20	5.25	3.812	2.06	1.44	3.156	2.660	.475	.781	21.0mm	228	0.750-10x2.75	M20-2.5x65

Mounting options ("U" and "M") include: (2) Split Flange halves, (4) hex head screws with washers, and (1) Viton O-ring.
 Mounting options ("X" and "Y") include: (1) Split Flange half only.
 Split Flange halves are silver trivalent plated.

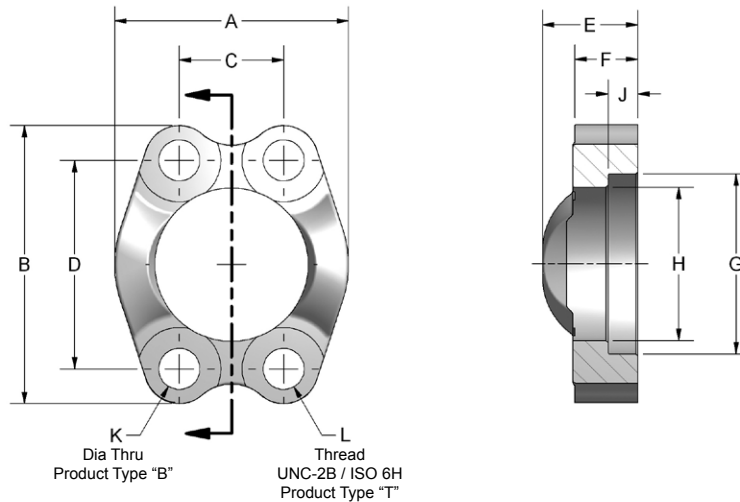
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Captive Flange



Ordering Information

FC	Flange Size	Material	Product Type	Rating Code	Mounting																																																										
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Captive Flange

CODE 61 CAPTIVE FLANGE																
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE HHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	1.81	2.12	.688	1.500	.75	.50	1.219	.955	.245	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	2.06	2.56	.875	1.875	.88	.56	1.531	1.265	.245	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.25	M10-1.5x30
1.00	2.31	2.75	1.031	2.062	.94	.62	1.781	1.515	.295	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.25	M10-1.5x30
1.25	2.88	3.12	1.188	2.312	.88	.56	2.031	1.720	.295	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.50	M10-1.5x40
1.50	3.25	3.69	1.406	2.750	1.00	.62	2.406	2.000	.295	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x1.50	M12-1.75x40
2.00	3.81	4.00	1.688	3.062	1.03	.62	2.844	2.470	.355	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x1.50	M12-1.75x40
2.50	4.28	4.50	2.000	3.500	1.50	.75	3.344	2.950	.355	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x1.75	M12-1.75x45
3.00	5.16	5.31	2.438	4.188	1.62	.88	4.031	3.580	.355	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x1.75	M16-2.0x45
3.50	5.50	6.00	2.750	4.750	1.12	.88	4.531	4.030	.422	.656	16.5mm	0.625-11	M16-2.0	241	0.625-11x2.00	M16-2.0x50
4.00	6.00	6.38	3.062	5.125	1.38	1.00	5.031	4.530	.422	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.00	M16-2.0x50

Captive flanges have natural finish.

CODE 62 CAPTIVE FLANGE																
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE HHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	1.86	2.22	.718	1.594	.88	.62	1.281	.970	.285	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	2.38	2.81	.937	2.000	1.12	.75	1.656	1.280	.325	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	2.75	3.19	1.093	2.250	1.31	.94	1.906	1.530	.355	.469	12.5mm	0.438-14	M12-1.75	219	0.438-14x1.75	M12-1.75x45
1.25	3.06	3.75	1.250	2.625	1.50	1.06	2.156	1.750	.385	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x1.75	M12-1.75x45
1.50	3.75	4.44	1.437	3.125	1.69	1.19	2.531	2.030	.475	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x2.25	M16-2.0x50
2.00	4.50	5.25	1.750	3.812	2.06	1.44	3.156	2.660	.475	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x2.75	M20-2.5x65

Captive flanges have natural finish.

Pressure Ratings and Fastener Torque Values

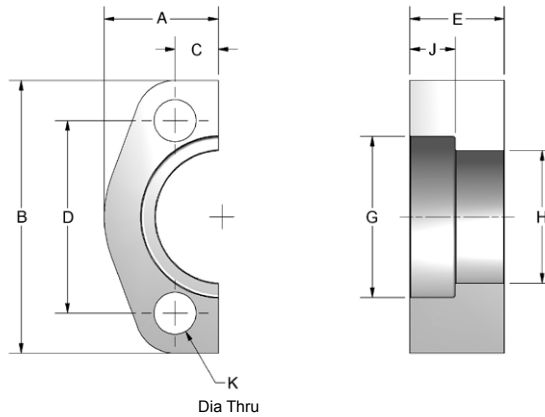
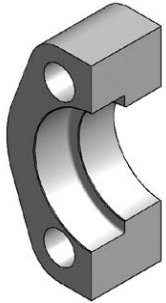
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Split Flange

PTX Series - Fits Caterpillar® flange heads only.



Ordering Information

FC	Flange Size	Material	Product Type	Rating Code	Mounting																																		
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Split Flange

PTX Series - Fits Caterpillar® flange heads only.

SPLIT FLANGE - CATERPILLAR® / PTX												
FLANGE SIZE	A	B	C	D	E	G	H	J	K DIA THRU		MOUNTING HARDWARE HHCS	
									Mounting U or X	Mounting M or Y	Mounting U	Mounting M
0.75	1.210	2.950	.446	2.000	1.102	1.632	1.270	.530	.406	10.5mm	0.375-16x1.75	M10-1.5x45
1.00	1.335	3.190	.507	2.250	1.102	1.884	1.550	.530	.469	12.5mm	0.438-14x1.75	M12-1.75x45
1.25	1.490	3.750	.585	2.625	1.102	2.134	1.705	.530	.531	12.5mm	0.500-13x2.00	M12-1.75x50
1.50	1.335	4.440	.679	3.125	1.258	2.509	2.080	.530	.656	16.5mm	0.625-11x2.50	M16-2.0x65
2.00	2.205	5.240	.834	3.812	1.457	3.130	2.640	.530	.827	21.0mm	0.750-10x2.75	M20-2.5x70

Mounting options ("U" and "M") include: (2) Split Flange halves, (4) hex head screws with washers. **O-RING NOT INCLUDED.**
 Mounting options ("X" and "Y") include: (1) Split Flange half only.

Pressure Ratings and Fastener Torque Values





CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.



CUSTOM APPLICATION FLANGES

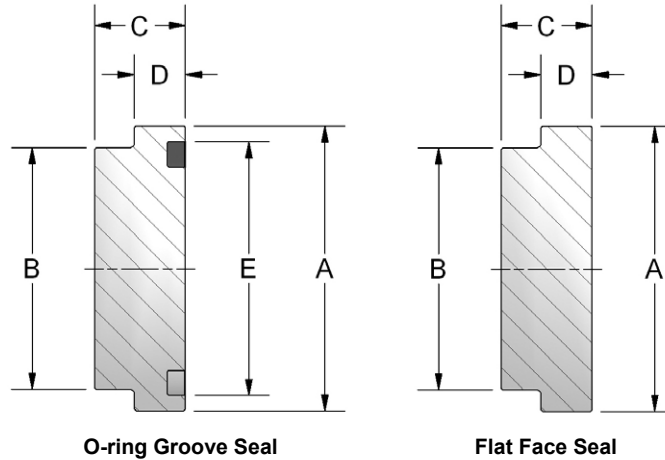
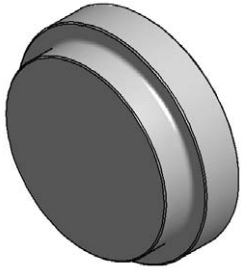
FLANGE HEAD FITTINGS

	Blanking Plug	16-17
	Male Thread JIC	18-19
	Male Thread SAE	20-21
	Male Thread ORFS	22-23
	Male Thread JIC 45° Elbow	24-25
	Male Thread ORFS 45° Elbow	26-27
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**CONSIDER CUSTOM
APPLICATION FLANGES
CALL 800.959.7841**

Blanking Plug



Ordering Information

FF	Flange Size	Material	Product Type	Seal	Rating Code																																												
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Blanking Plug

CODE 61 BLANKING PLUG					
FLANGE SIZE	A	B	C	D	E
0.50	1.188	.924	.50	.265	1.000
0.75	1.500	1.234	.56	.265	1.250
1.00	1.750	1.484	.56	.315	1.560
1.25	2.000	1.684	.56	.315	1.750
1.50	2.375	1.964	.62	.315	2.115
2.00	2.810	2.434	.62	.375	2.490
2.50	3.312	2.904	.68	.375	2.995
3.00	4.000	3.534	.75	.375	3.615

O-ring not included.

CODE 62 BLANKING PLUG					
FLANGE SIZE	A	B	C	D	E
0.75	1.625	1.234	.690	.345	1.250
1.00	1.875	1.484	.810	.375	1.560
1.25	2.125	1.704	1.000	.405	1.750
1.50	2.500	1.984	1.190	.495	2.115
2.00	3.125	2.604	1.500	.495	2.490

O-ring not included.

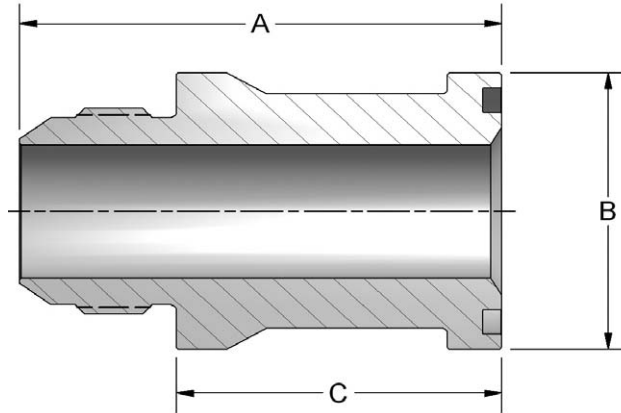
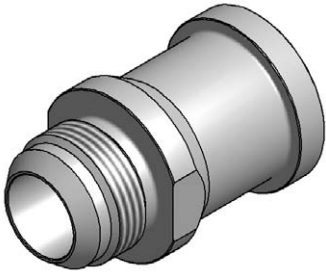
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
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-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Male Thread JIC



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Male Thread JIC

CODE 61 MALE THREAD JIC					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50*	0.50	2.60	1.188	1.94	0.750-16
0.75	0.50	2.75	1.500	2.09	0.750-16
0.75*	0.75	2.75	1.500	1.89	1.062-12
0.75	1.00	2.75	1.500	1.84	1.312-12
1.00	0.75	2.80	1.750	1.94	1.062-12
1.00*	1.00	2.80	1.750	1.89	1.312-12
1.00	1.25	2.80	1.750	1.84	1.625-12
1.25	0.75	2.80	2.000	1.94	1.062-12
1.25	1.00	2.80	2.000	1.89	1.312-12
1.25*	1.25	2.80	2.000	1.84	1.625-12
1.25	1.50	3.40	2.000	2.32	1.875-12
1.50	1.00	3.33	2.375	2.42	1.312-12
1.50	1.25	3.38	2.375	2.42	1.625-12
1.50*	1.50	3.50	2.375	2.42	1.875-12
1.50	2.00	4.20	2.375	2.87	2.500-12
2.00	1.25	3.60	2.812	2.64	1.625-12
2.00	1.50	3.73	2.812	2.64	1.875-12
2.00	2.00	3.98	2.812	2.64	2.500-12
2.50	2.00	3.98	3.312	2.64	2.500-12

*These sizes are also available in stainless steel.
O-ring not included.

CODE 62 MALE THREAD JIC					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50	0.50	2.61	1.250	1.95	0.750-16
0.75*	0.75	2.75	1.625	1.89	1.062-12
0.75	1.00	2.75	1.625	1.84	1.312-12
0.75	1.25	3.05	1.625	2.09	1.625-12
1.00	0.75	2.80	1.875	1.94	1.062-12
1.00*	1.00	2.80	1.875	1.89	1.312-12
1.00	1.25	2.80	1.875	1.84	1.625-12
1.25	1.00	3.05	2.125	2.14	1.312-12
1.25*	1.25	3.05	2.125	2.09	1.625-12
1.25	1.50	3.30	2.125	2.22	1.875-12
1.50	1.00	3.33	2.500	2.42	1.312-12
1.50	1.25	3.50	2.500	2.54	1.625-12
1.50*	1.50	3.50	2.500	2.42	1.875-12
1.50	2.00	4.49	2.500	3.61	2.500-12
2.00	1.50	3.98	3.125	2.89	1.875-12
2.00	2.00	4.23	3.125	2.89	2.500-12

*These sizes are also available in stainless steel.
O-ring not included.

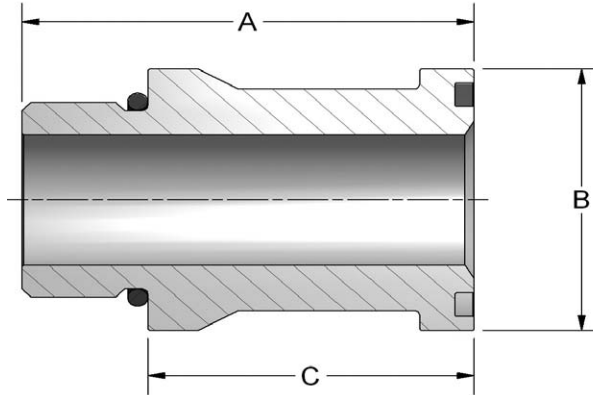
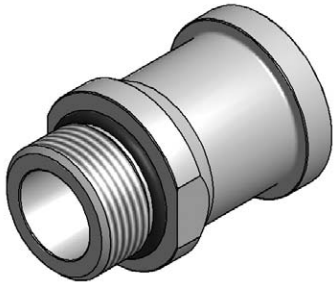
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-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
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Male Thread SAE



Ordering Information

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Male Thread SAE

CODE 61 MALE THREAD SAE					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50	0.50	2.49	1.188	1.94	0.750-16
0.75	0.75	2.61	1.500	1.89	1.062-12
0.75	1.00	2.88	1.500	2.16	1.312-12
1.00	0.75	2.74	1.750	2.02	1.062-12
1.00	1.00	2.61	1.750	1.89	1.312-12
1.00	1.25	3.13	1.750	2.41	1.625-12
1.25	1.00	2.74	2.000	2.02	1.312-12
1.25	1.25	3.13	2.000	2.41	1.625-12
1.25	1.50	3.43	2.000	2.71	1.875-12
1.50	1.00	3.30	2.375	2.58	1.312-12
1.50	1.25	3.30	2.375	2.58	1.625-12
1.50	1.50	3.14	2.375	2.42	1.875-12
1.50	2.00	3.63	2.375	2.91	2.500-12
2.00	1.50	3.79	2.812	3.07	1.875-12
2.00	2.00	3.63	2.812	2.91	2.500-12

O-ring not included.

CODE 62 MALE THREAD SAE					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50	0.50	2.50	1.250	1.95	0.750-16
0.75	0.75	2.62	1.625	1.89	1.062-12
0.75	1.00	2.88	1.625	2.15	1.312-12
1.00	0.75	2.75	1.875	2.02	1.062-12
1.00	1.00	2.62	1.875	1.89	1.312-12
1.00	1.25	3.44	1.875	2.71	1.625-12
1.25	1.00	3.12	2.125	2.39	1.312-12
1.25	1.25	3.00	2.125	2.27	1.625-12
1.25	1.50	3.44	2.125	2.71	1.875-12
1.50	1.25	3.31	2.500	2.58	1.625-12
1.50	1.50	3.19	2.500	2.46	1.875-12
1.50	2.00	4.34	2.500	3.61	2.500-12
2.00	1.50	3.90	3.125	3.17	1.875-12
2.00	2.00	3.75	3.125	3.02	2.500-12

O-ring not included.

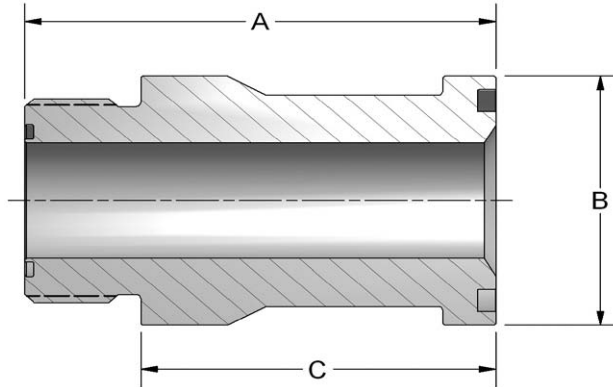
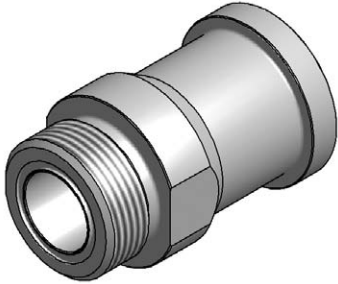
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Male Thread ORFS



Ordering Information

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Male Thread ORFS

CODE 61 MALE THREAD ORFS					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50	0.50	2.45	1.188	1.94	0.812-16
0.75	0.75	2.75	1.500	2.08	1.188-12
0.75	1.00	2.75	1.500	2.06	1.438-12
1.00	0.75	2.80	1.750	2.13	1.188-12
1.00	1.00	2.80	1.750	2.11	1.438-12
1.00	1.25	2.80	1.750	2.11	1.688-12
1.25	1.00	2.80	2.000	2.11	1.438-12
1.25	1.25	2.80	2.000	2.11	1.688-12
1.25	1.50	3.20	2.000	2.51	2.000-12
1.50	1.25	3.50	2.375	2.81	1.688-12
1.50	1.50	3.50	2.375	2.81	2.000-12
2.00	1.50	3.33	2.812	2.64	2.000-12

O-ring not included.

CODE 62 MALE THREAD ORFS					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50	0.50	2.58	1.250	2.08	0.812-16
0.75	0.75	2.75	1.625	2.08	1.188-12
0.75	1.00	2.75	1.625	2.06	1.438-12
1.00	0.75	2.80	1.875	2.13	1.188-12
1.00	1.00	2.80	1.875	2.11	1.438-12
1.00	1.25	3.20	1.875	2.51	1.688-12
1.25	1.00	3.05	2.125	2.36	1.438-12
1.25	1.25	3.05	2.125	2.36	1.688-12
1.25	1.50	3.30	2.125	2.61	2.000-12
1.50	1.25	3.50	2.500	2.81	1.688-12
1.50	1.50	3.50	2.500	2.81	2.000-12
2.00	1.50	3.58	3.125	2.89	2.000-12

O-ring not included.

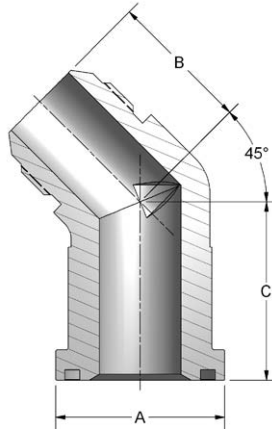
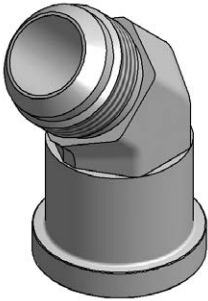
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Male Thread JIC 45° Elbow



Ordering Information

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Male Thread JIC 45° Elbow

CODE 61 MALE THREAD JIC 45° ELBOW					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.75	0.75	1.500	1.28	1.58	1.062-12
1.00	1.00	1.750	1.47	1.85	1.312-12
1.25	1.25	2.000	1.59	2.04	1.625-12
1.50	1.50	2.375	1.78	2.38	1.875-12
2.00	2.00	2.812	2.22	3.00	2.500-12

O-ring not included.

CODE 62 MALE THREAD JIC 45° ELBOW					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.75	0.75	1.625	1.28	1.58	1.062-12
1.00	1.00	1.875	1.47	1.85	1.312-12
1.25	1.25	2.125	1.59	2.04	1.625-12
1.50	1.50	2.500	1.78	2.38	1.875-12

O-ring not included.

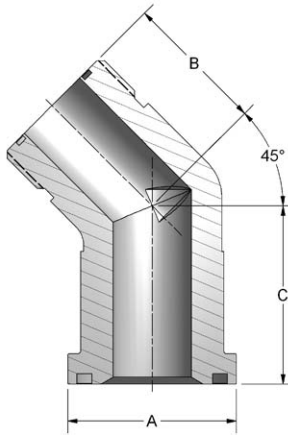
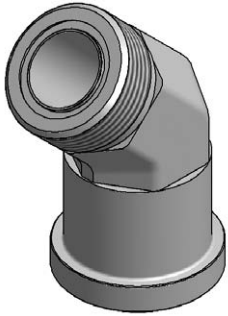
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CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
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-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Male Thread ORFS 45° Elbow



Ordering Information

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Male Thread ORFS 45° Elbow

CODE 61 MALE THREAD ORFS 45° ELBOW					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.75	0.75	1.500	1.28	1.58	1.188-12
1.00	1.00	1.750	1.47	1.85	1.438-12
1.25	1.25	2.000	1.59	2.04	1.688-12
1.50	1.50	2.375	1.78	2.38	2.000-12

O-ring not included.

CODE 62 MALE THREAD ORFS 45° ELBOW					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.75	0.75	1.625	1.28	1.58	1.188-12
1.00	1.00	1.875	1.47	1.85	1.438-12
1.25	1.25	2.125	1.59	2.04	1.688-12
1.50	1.50	2.500	1.78	2.38	2.000-12

O-ring not included.

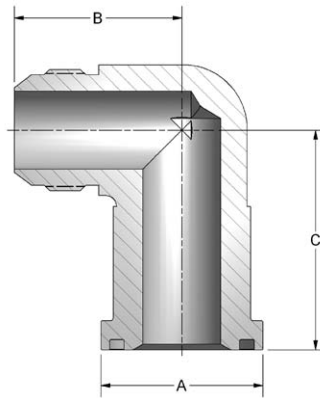
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Male Thread JIC 90° Elbow



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Male Thread JIC 90° Elbow

CODE 61 MALE THREAD JIC 90° ELBOW					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.75	0.50	1.500	1.66	2.13	0.750-16
0.75*	0.75	1.500	1.66	2.13	1.062-12
0.75	1.00	1.500	1.66	2.13	1.312-12
1.00	0.75	1.750	1.81	2.37	1.062-12
1.00*	1.00	1.750	1.81	2.37	1.312-12
1.00	1.25	1.750	1.81	2.37	1.625-12
1.25	0.75	2.000	2.06	2.62	1.062-12
1.25	1.00	2.000	2.06	2.62	1.312-12
1.25*	1.25	2.000	2.06	2.62	1.625-12
1.25	1.50	2.000	2.06	2.62	1.875-12
1.50	0.75	2.375	2.33	3.15	1.062-12
1.50	1.00	2.375	2.33	3.15	1.312-12
1.50	1.25	2.375	2.33	3.15	1.625-12
1.50*	1.50	2.375	2.33	3.15	1.875-12
1.50	2.00	2.375	2.33	3.15	2.500-12
2.00	1.50	2.812	3.06	4.25	1.875-12
2.00	2.00	2.812	3.06	4.25	2.500-12
2.50	2.00	3.312	3.06	4.25	2.500-12

*These sizes are also available in stainless steel.
O-ring not included.

CODE 62 MALE THREAD JIC 90° ELBOW					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50	0.50	1.250	1.66	2.13	0.750-16
0.75	0.50	1.625	1.66	2.13	0.750-16
0.75*	0.75	1.625	1.66	2.13	1.062-12
0.75	1.00	1.625	1.66	2.13	1.312-12
1.00	0.75	1.875	1.81	2.37	1.062-12
1.00*	1.00	1.875	1.81	2.37	1.312-12
1.00	1.25	1.875	1.81	2.37	1.625-12
1.25	1.00	2.125	2.06	2.76	1.312-12
1.25*	1.25	2.125	2.06	2.76	1.625-12
1.25	1.50	2.125	2.19	2.76	1.875-12
1.50	1.25	2.500	2.33	3.15	1.625-12
1.50*	1.50	2.500	2.33	3.15	1.875-12
1.50	2.00	2.500	3.06	4.25	2.500-12
2.00	1.50	3.125	3.06	4.25	1.875-12
2.00	2.00	3.125	3.06	4.25	2.500-12

*These sizes are also available in stainless steel.
O-ring not included.

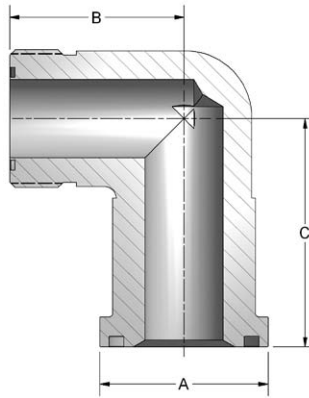
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Male Thread ORFS 90° Elbow



Ordering Information

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Male Thread ORFS 90° Elbow

CODE 61 MALE THREAD ORFS 90° ELBOW					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.75	0.75	1.500	1.66	2.13	1.188-12
0.75	1.00	1.500	1.66	2.13	1.438-12
1.00	0.75	1.750	1.81	2.37	1.188-12
1.00	1.00	1.750	1.81	2.37	1.438-12
1.00	1.25	1.750	1.81	2.37	1.688-12
1.25	1.00	2.000	2.06	2.62	1.438-12
1.25	1.25	2.000	2.06	2.62	1.688-12
1.25	1.50	2.000	2.06	2.62	2.000-12
1.50	1.25	2.375	2.33	3.15	1.688-12
1.50	1.50	2.375	2.33	3.15	2.000-12
2.00	1.50	2.812	3.06	4.25	2.000-12

O-ring not included.

CODE 62 90° ORFS THREAD					
FLANGE SIZE	TUBE O.D.	A	B	C	THREAD
0.50	0.75	1.250	1.66	2.13	1.188-12
0.75	0.75	1.625	1.66	2.13	1.188-12
0.75	1.00	1.625	1.66	2.13	1.438-12
1.00	0.75	1.875	1.81	2.37	1.188-12
1.00	1.00	1.875	1.81	2.37	1.438-12
1.00	1.25	1.875	1.81	2.37	1.688-12
1.25	1.00	2.125	2.06	2.76	1.438-12
1.25	1.25	2.125	2.06	2.76	1.688-12
1.25	1.50	2.125	2.06	2.76	2.000-12
1.50	1.25	2.500	2.33	3.15	1.688-12
1.50	1.50	2.500	2.33	3.15	2.000-12
2.00	1.50	3.125	3.06	4.25	2.000-12

O-ring not included.

Pressure Ratings and Fastener Torque Values

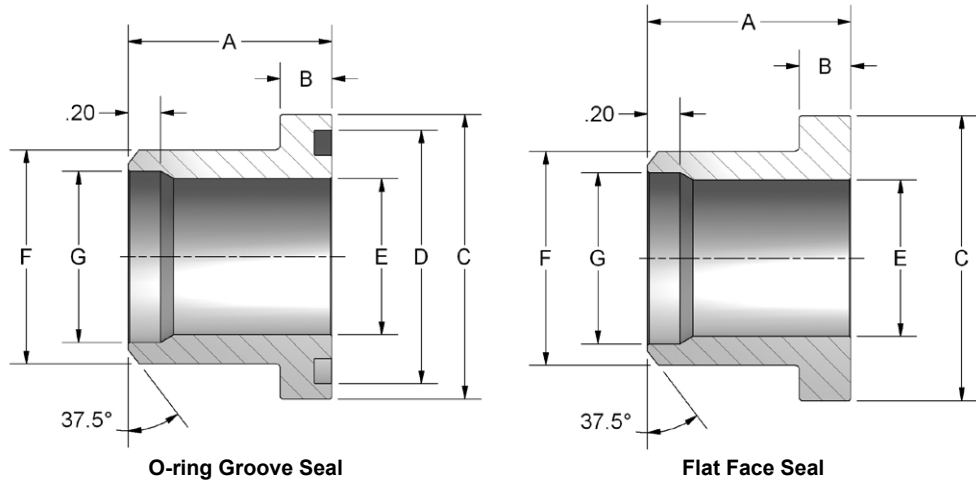
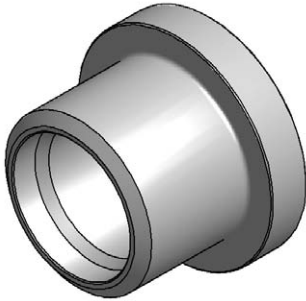
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-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Butt Weld Flange Head

Code 61 • Schedule 40



Ordering Information

FF	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Rating																																										
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Butt Weld Flange Head

Code 61 • Schedule 40

CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHED 40								
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G
0.50	0.50	1.06	.265	1.188	1.000	.548	.840	.624
0.75	0.75	1.06	.265	1.500	1.250	.744	1.050	.826
1.00	1.00	1.25	.315	1.750	1.560	.959	1.315	1.051
1.25	1.25	1.44	.315	2.000	1.750	1.280	1.660	1.382
1.50	1.50	1.75	.315	2.375	2.115	1.502	1.900	1.612
2.00	2.00	2.00	.375	2.812	2.490	1.941	2.375	2.069
2.50	2.50	2.31	.375	3.312	2.995	2.325	2.875	2.471
3.00	3.00	2.31	.375	4.000	3.615	2.902	3.500	3.070
4.00	4.00	1.90	.442	5.000	4.595	3.828	4.500	4.028

O-ring not included.

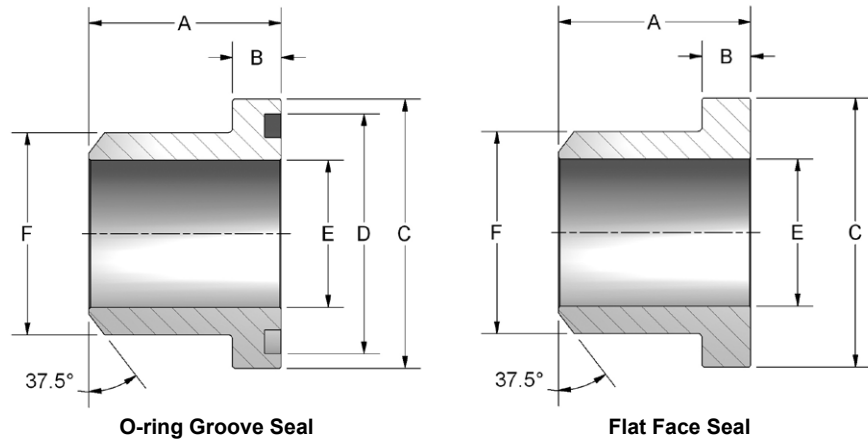
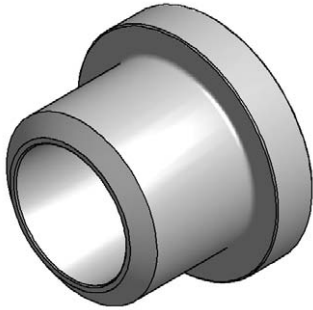
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Butt Weld Flange Head

Code 61 • Schedule 80 / 160



Ordering Information

FF	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Rating																																										
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Butt Weld Flange Head

Code 61 • Schedule 80 / 160

CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHED 80							
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F
0.50	0.50	1.06	.265	1.188	1.000	.548	.840
0.75	0.75	1.06	.265	1.500	1.250	.744	1.050
1.00	1.00	1.25	.315	1.750	1.560	.959	1.315
1.25	1.25	1.44	.315	2.000	1.750	1.280	1.660
1.50	1.50	1.75	.315	2.375	2.115	1.502	1.900
2.00	2.00	2.00	.375	2.812	2.490	1.941	2.375
2.50	2.50	2.31	.375	3.312	2.995	2.325	2.875
3.00	3.00	2.31	.375	4.000	3.615	2.902	3.500

O-ring not included.

CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHED 160							
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F
0.50	0.50	1.06	.265	1.188	1.000	.464	.840
0.75	0.75	1.06	.265	1.500	1.250	.612	1.050
1.00	1.00	1.25	.315	1.750	1.560	.815	1.315
1.25	1.25	1.44	.315	2.000	1.750	1.160	1.660
1.50	1.50	1.75	.315	2.375	2.115	1.338	1.900
2.00	2.00	2.00	.375	2.812	2.490	1.687	2.375
2.50	2.50	2.31	.375	3.312	2.995	2.125	2.875
3.00	3.00	2.31	.375	4.000	3.615	2.624	3.500

O-ring not included.

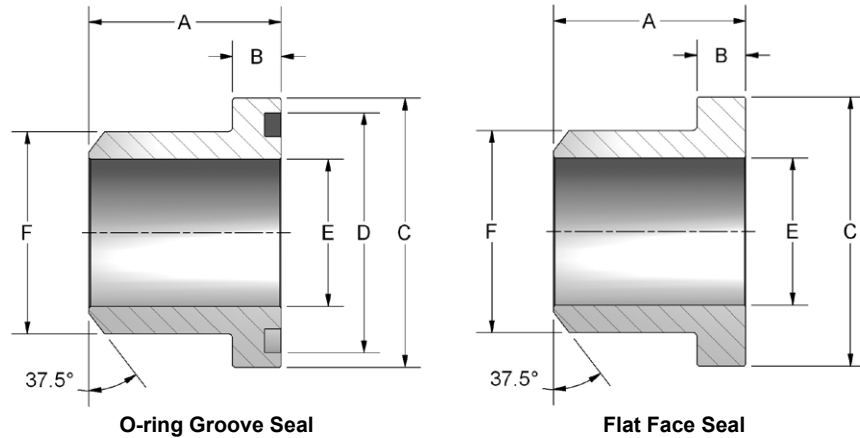
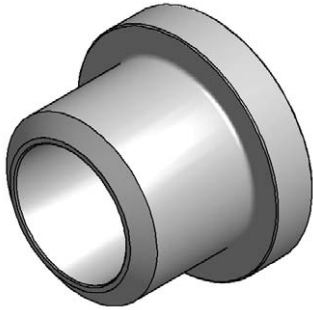
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Butt Weld Flange Head

Code 62 • Schedule 80 / 160 / XXS



Ordering Information

FF	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Rating																																								
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Butt Weld Flange Head

Code 62 • Schedule 80 / 160 / XXS

CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHED 80

FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F
0.50	0.50	1.10	.305	1.250	1.000	.548	.840
0.75	0.75	1.42	.345	1.625	1.250	.744	1.050
1.00	1.00	1.61	.375	1.875	1.560	.959	1.315
1.25	1.25	1.73	.405	2.125	1.750	1.280	1.660
1.50	1.50	2.17	.495	2.500	2.115	1.502	1.900
2.00	2.00	2.48	.495	3.125	2.490	1.941	2.375

O-ring not included.

CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHED 160

FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F
0.50	0.50	1.10	.305	1.250	1.000	.464	.840
0.75	0.75	1.42	.345	1.625	1.250	.612	1.050
1.00	1.00	1.61	.375	1.875	1.560	.815	1.315
1.25	1.25	1.73	.405	2.125	1.750	1.160	1.660
1.50	1.50	2.17	.495	2.500	2.115	1.338	1.900
2.00	2.00	2.48	.495	3.125	2.490	1.687	2.375

O-ring not included.

CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHED XXS

FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F
0.50	0.50	1.10	.305	1.250	1.000	.252	.840
0.75	0.75	1.42	.345	1.625	1.250	.434	1.050
1.00	1.00	1.61	.375	1.875	1.560	.599	1.315
1.25	1.25	1.73	.405	2.125	1.750	.896	1.660
1.50	1.50	2.17	.495	2.500	2.115	1.100	1.900
2.00	2.00	2.48	.495	3.125	2.490	1.503	2.375

O-ring not included.

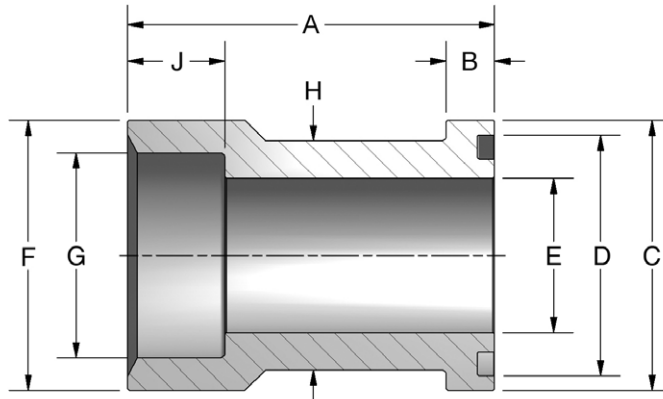
Pressure Ratings and Fastener Torque Values

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Female Flange Head Adaptor

Socket Weld Pipe



Ordering Information

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P	Pipe Socket Weld																																																																								

Female Flange Head Adaptor

Socket Weld Pipe

CODE 61 SOCKET WELD TO FLANGE HEAD FOR PIPE										
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J
0.50	0.50	2.34	.265	1.187	1.000	.500	1.25	.855	.924	.56
0.75	0.75	2.34	.265	1.500	1.250	.750	1.50	1.062	1.234	.56
1.00	1.00	2.38	.315	1.750	1.560	1.000	1.75	1.328	1.484	.63
1.25	1.25	2.62	.315	2.000	1.750	1.250	2.00	1.672	1.684	.69
1.50	1.50	2.88	.315	2.375	2.115	1.500	2.38	1.922	1.964	.75
2.00	2.00	3.00	.375	2.812	2.490	2.000	2.81	2.406	2.434	.88
2.50	2.50	3.06	.375	3.312	2.995	2.500	3.31	2.906	2.920	1.00
3.00	3.00	3.88	.375	4.000	3.615	2.875	4.00	3.547	3.534	1.25

O-ring not included.

CODE 62 SOCKET WELD TO FLANGE HEAD FOR PIPE										
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J
0.75	0.75	2.75	.345	1.625	1.250	.750	1.750	1.062	1.234	.63
1.00	1.00	3.06	.375	1.875	1.560	1.000	2.000	1.328	1.484	.63
1.25	1.25	3.31	.405	2.125	1.750	1.125	2.312	1.672	1.704	.69
1.50	1.50	3.93	.495	2.500	2.115	1.375	2.750	1.922	1.984	.75
2.00	2.00	4.06	.495	3.125	2.490	1.875	3.125	2.406	2.604	.88

O-ring not included.

Pressure Ratings and Fastener Torque Values

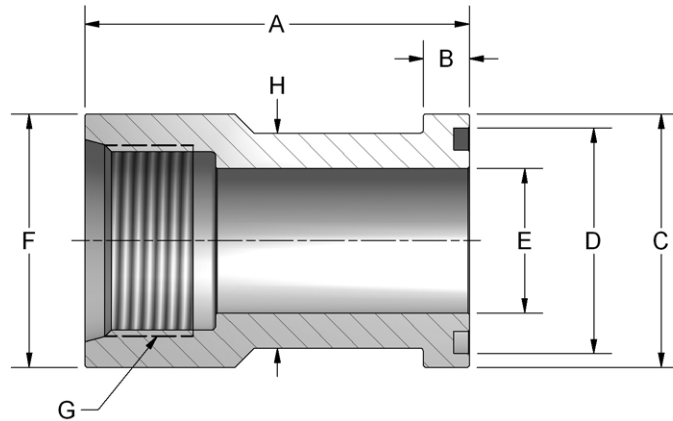
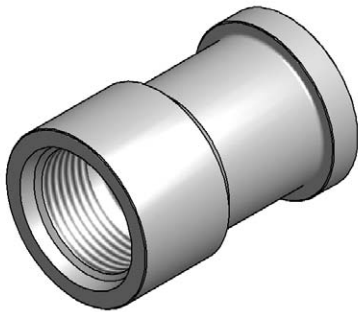
CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Female Flange Head Adaptor

NPTF/SAE Port



Ordering Information

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Female Flange Head Adaptor

NPTF/SAE Port

CODE 61 NPTF PORT TO FLANGE HEAD									
FLANGE SIZE	NPTF PORT SIZE	A	B	C	D	E	F	G NPTF	H
0.75	0.75	2.47	.265	1.500	1.250	.75	1.50	0.75	1.234
1.00	1.00	2.66	.315	1.750	1.560	1.00	1.75	1.00	1.484
1.25	1.25	2.84	.315	2.000	1.750	1.25	2.00	1.25	1.684
1.50	1.50	3.00	.315	2.375	2.115	1.50	2.38	1.50	1.964
2.00	2.00	3.00	.375	2.812	2.490	2.00	2.81	2.00	2.434

O-ring not included.

CODE 61 SAE PORT TO FLANGE HEAD									
FLANGE SIZE	SAE PORT SIZE	A	B	C	D	E	F	G SAE	H
0.75	0.75	2.47	.265	1.500	1.250	.75	1.50	1.062-12	1.234
1.00	1.00	2.66	.315	1.750	1.560	1.00	1.75	1.312-12	1.484
1.25	1.25	2.84	.315	2.000	1.750	1.25	2.00	1.625-12	1.684
1.50	1.50	3.00	.315	2.375	2.115	1.50	2.38	1.875-12	1.964
2.00	2.00	3.00	.375	2.812	2.490	2.00	2.81	2.500-12	2.434

O-ring not included.

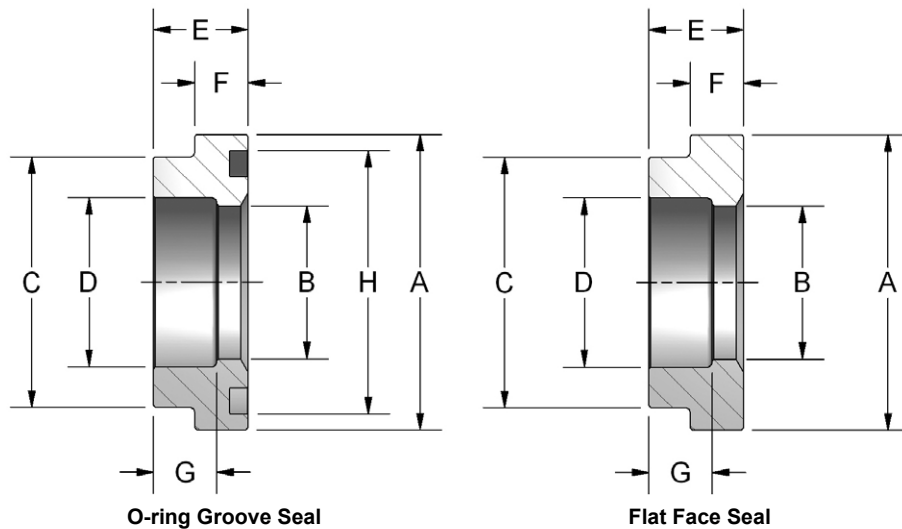
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Flange Head Fitting

Socket Weld Tube



Ordering Information

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Flange Head Fitting

Socket Weld Tube

CODE 61 TUBE FLANGE HEAD FITTING									
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H
0.50	0.50	1.188	.406	.924	.502	.50	.265	.312	1.000
0.50	0.63	1.188	.500	.924	.627	.50	.265	.312	1.000
0.75	0.75	1.500	.656	1.234	.752	.56	.265	.375	1.250
0.75	1.00	1.500	.750	1.234	1.002	.56	.265	.375	1.250
1.00	1.00	1.750	.906	1.484	1.002	.56	.315	.375	1.560
1.00	1.25	1.750	1.000	1.484	1.252	.56	.315	.375	1.560
1.25	1.25	2.000	1.125	1.684	1.252	.56	.315	.375	1.750
1.25	1.50	2.000	1.250	1.684	1.502	.56	.315	.375	1.750
1.50	1.50	2.375	1.375	1.964	1.502	.62	.315	.438	2.115
1.50	1.75	2.375	1.500	1.964	1.752	.62	.315	.438	2.115
2.00	2.00	2.812	1.875	2.434	2.002	.62	.375	.500	2.490
2.00	2.25	2.812	2.000	2.434	2.252	.62	.375	.500	2.490
2.50	2.50	3.312	2.375	2.904	2.502	.68	.375	.562	2.995
2.50	2.75	3.312	2.500	2.904	2.752	.68	.375	.500	2.995
3.00	3.00	4.000	2.875	3.534	3.002	.75	.375	.562	3.615

O-ring not included.

CODE 62 TUBE FLANGE HEAD FITTING									
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H
0.75	0.75	1.625	.656	1.234	.752	.69	.345	.500	1.250
0.75	1.00	1.625	.750	1.234	1.002	.69	.345	.500	1.250
1.00	1.00	1.875	.810	1.484	1.002	.81	.375	.625	1.560
1.00	1.25	1.875	1.000	1.484	1.252	.81	.375	.625	1.560
1.25	1.25	2.125	1.010	1.704	1.252	1.00	.405	.812	1.750
1.25	1.50	2.125	1.250	1.704	1.502	1.00	.405	.812	1.750
1.50	1.50	2.500	1.250	1.984	1.502	1.19	.495	1.000	2.115
1.50	1.75	2.500	1.500	1.984	1.757	1.19	.495	1.000	2.115
2.00	2.00	3.125	1.750	2.604	2.002	1.50	.495	1.375	2.490
2.00	2.25	3.125	2.000	2.604	2.252	1.50	.495	1.312	2.490

O-ring not included.

Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.



INNOVATION WITH RELIABLE SOLUTIONS

Dartman

Hydraulic Flange Products

Better System Connections Begin with a Daman Flange

FLANGE PLATES



Connector Block

46-47



Connector Plate

48-49



Double O-ring Union

50-51



Gage Port Spacer

52-53



Zero PSI Shipping Plate

54-55



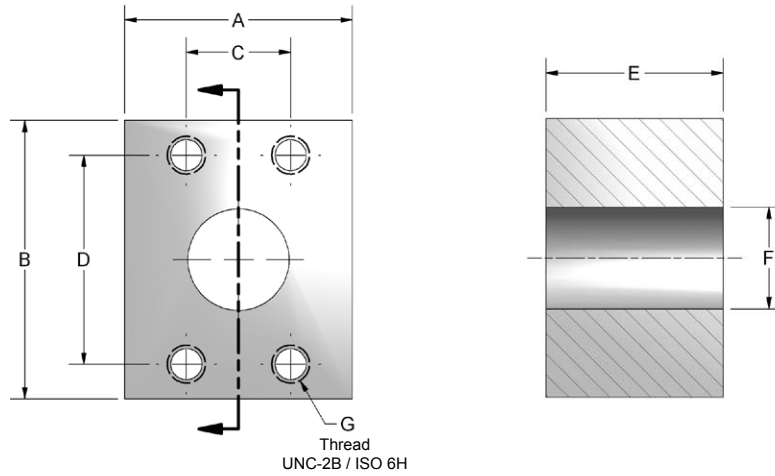
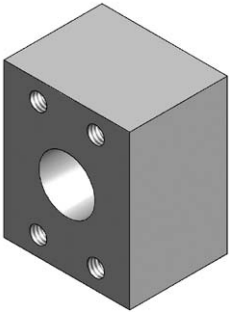
Orifice Plate

56-57



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APPLICATION FLANGES
CALL 800.959.7841

Connector Block



Ordering Information

FP	Flange Size	Material	Product Type	Rating Code	Mounting																																								
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Connector Block

CODE 61 CONNECTOR BLOCK								
FLANGE SIZE	A	B	C	D	E	F	G THREAD	
							UNC-2B Mounting X	ISO 6H Mounting Y
0.50	2.00	2.12	.688	1.500	1.75	.502	0.313-18	M8-1.25
0.75	2.00	2.62	.875	1.875	1.75	.752	0.375-16	M10-1.5
1.00	2.25	2.75	1.031	2.062	1.75	1.002	0.375-16	M10-1.5
1.25	3.00	3.19	1.188	2.312	2.125	1.252	0.438-14	M10-1.5
1.50	3.50	3.75	1.406	2.750	2.125	1.502	0.500-13	M12-1.75
2.00	3.88	4.00	1.688	3.062	2.125	1.942	0.500-13	M12-1.75
2.50	4.38	4.50	2.000	3.500	2.375	2.442	0.500-13	M12-1.75

CODE 62 CONNECTOR BLOCK								
FLANGE SIZE	A	B	C	D	E	F	G THREAD	
							UNC-2B Mounting X	ISO 6H Mounting Y
0.50	2.00	2.22	.718	1.594	1.75	.502	0.313-18	M8-1.25
0.75	2.50	2.81	.937	2.000	2.00	.752	0.375-16	M10-1.5
1.00	2.75	3.19	1.093	2.250	2.00	1.002	0.438-14	M12-1.75
1.25	3.00	3.75	1.250	2.625	2.00	1.252	0.500-13	M12-1.75
1.50	3.88	4.50	1.437	3.125	2.50	1.502	0.625-11	M16-2.0
2.00	4.50	5.25	1.750	3.812	3.00	1.942	0.750-10	M20-2.5

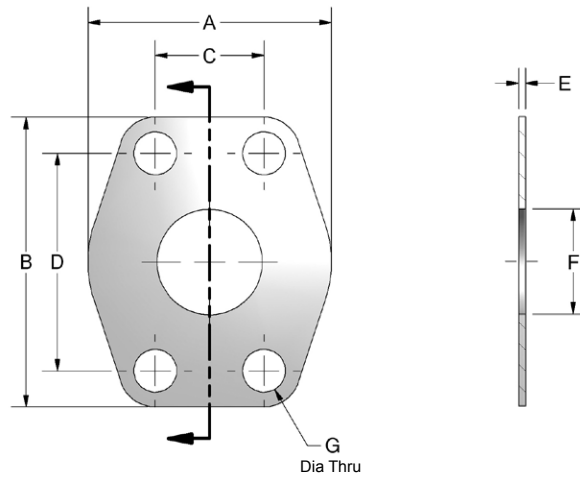
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Connector Plate



Ordering Information

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Connector Plate

CODE 61 CONNECTOR PLATE								
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU	
							Mounting X	Mounting Y
0.50	1.81	2.12	.688	1.500	0.060	.50	.344	8.5mm
0.75	2.06	2.56	.875	1.875	0.060	.75	.406	10.5mm
1.00	2.31	2.75	1.031	2.062	0.060	1.00	.406	10.5mm
1.25	2.88	3.12	1.188	2.312	0.060	1.25	.469	10.5mm
1.50	3.25	3.69	1.406	2.750	0.060	1.50	.531	12.5mm
2.00	3.81	4.00	1.688	3.062	0.060	2.00	.531	12.5mm
2.50	4.12	4.44	2.000	3.500	0.060	2.50	.531	12.5mm
3.00	5.16	5.31	2.438	4.188	0.060	3.00	.656	16.5mm

CODE 62 CONNECTOR PLATE								
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU	
							Mounting X	Mounting Y
0.75	2.38	2.81	.937	2.000	0.060	.75	.406	10.5mm
1.00	2.75	3.19	1.093	2.250	0.060	1.00	.492	12.5mm
1.25	3.06	3.75	1.250	2.625	0.060	1.25	.531	12.5mm
1.50	3.75	4.44	1.437	3.125	0.060	1.50	.656	16.5mm
2.00	4.50	5.25	1.750	3.812	0.060	2.00	.781	21.0mm

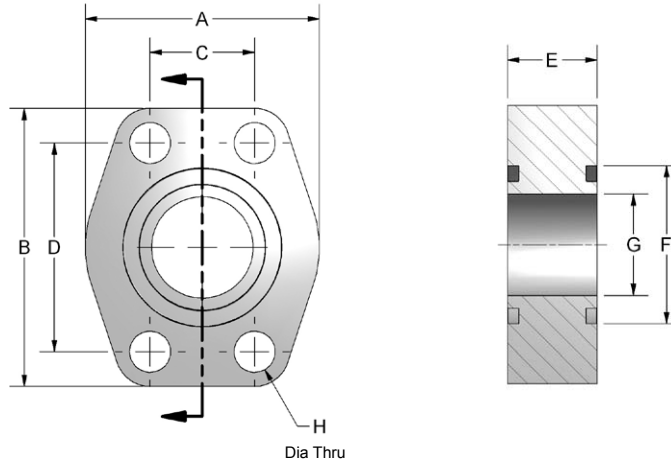
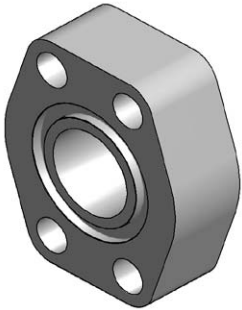
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Double O-ring Union



Ordering Information

FP	Flange Size	Material	Product Type	Rating Code	Mounting																																														
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Double O-ring Union

CODE 61 DOUBLE O-RING UNION										
FLANGE SIZE	A	B	C	D	E	F	G	O-RING	H DIA THRU	
									Mounting X	Mounting Y
0.50	1.813	2.125	.688	1.50	.750	1.000	.502	210	.344	8.5mm
0.75	2.063	2.563	.875	1.875	.750	1.250	.752	214	.406	10.5mm
1.00	2.313	2.750	1.031	2.063	.880	1.560	1.002	219	.406	10.5mm
1.25	2.875	3.125	1.188	2.313	.940	1.750	1.252	222	.469	10.5mm
1.50	3.250	3.688	1.406	2.750	1.190	2.115	1.502	225	.531	12.5mm
2.00	3.813	4.000	1.688	3.063	1.440	2.490	2.002	228	.531	12.5mm
2.50	4.281	4.500	2.000	3.500	1.815	2.995	2.502	232	.531	12.5mm
3.00	5.156	5.313	2.438	4.188	2.190	3.615	3.002	237	.656	16.5mm
3.50	5.500	6.000	2.750	4.750	1.440	4.095	3.502	241	.656	16.5mm
4.00	6.000	6.380	3.062	5.125	1.440	4.595	4.002	245	.656	16.5mm

O-rings not included. See page 5 for ordering information.

CODE 62 DOUBLE O-RING UNION										
FLANGE SIZE	A	B	C	D	E	F	G	O-RING	H DIA THRU	
									Mounting X	Mounting Y
0.50	1.94	2.30	.718	1.594	1.250	1.000	.502	210	.344	8.5mm
0.75	2.50	2.95	.937	2.000	1.250	1.250	.752	214	.406	10.5mm
1.00	2.75	3.19	1.093	2.250	1.500	1.560	1.002	219	.492	12.5mm
1.25	3.06	3.75	1.250	2.625	1.430	1.750	1.252	222	.531	12.5mm
1.50	3.75	4.44	1.437	3.125	1.815	2.115	1.502	225	.656	16.5mm
2.00	4.50	5.25	1.750	3.812	1.815	2.490	2.002	228	.781	21.0mm
2.50	5.87	6.87	2.312	4.875	1.930	2.995	2.502	232	.906	25.0mm
3.00	7.00	8.50	2.812	6.000	2.690	3.615	3.002	237	1.156	31.0mm

O-rings not included. See page 5 for ordering information.

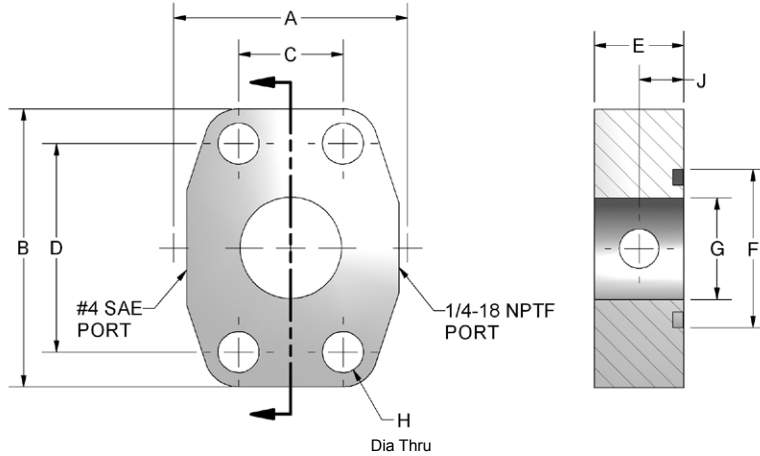
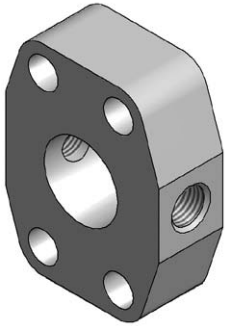
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
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-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Gage Port Spacer



Ordering Information

FP	Flange Size	Material	Product Type	Rating Code	Mounting																																														
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Gage Port Spacer

CODE 61 GAGE PORT SPACER											
FLANGE SIZE	A	B	C	D	E	F	G	O-RING	H DIA THRU		J
									Mounting X	Mounting Y	
0.50	1.82	2.16	.688	1.500	1.25	1.000	.502	210	.344	8.5mm	.62
0.75	2.06	2.69	.875	1.875	1.25	1.250	.752	214	.406	10.5mm	.62
1.00	2.31	2.75	1.031	2.062	.88	1.560	1.002	219	.406	10.5mm	.44
1.25	2.87	3.12	1.188	2.312	.94	1.750	1.252	222	.469	10.5mm	.47
1.50	3.25	3.68	1.406	2.750	1.19	2.115	1.502	225	.531	12.5mm	.59
2.00	3.81	4.00	1.688	3.062	1.38	2.490	2.002	228	.531	12.5mm	.69
2.50	4.28	4.50	2.000	3.500	1.75	2.995	2.502	232	.531	12.5mm	.88
3.00	5.15	5.31	2.438	4.188	2.12	3.615	3.002	237	.656	16.5mm	1.06
3.50	5.50	6.00	2.750	4.750	1.44	4.095	3.502	241	.656	16.5mm	.72
4.00	6.00	6.38	3.062	5.125	1.50	4.595	4.002	245	.656	16.5mm	.75

O-ring not included. See page 5 for ordering information.

CODE 62 GAGE PORT SPACER											
FLANGE SIZE	A	B	C	D	E	F	G	O-RING	H DIA THRU		J
									Mounting X	Mounting Y	
0.50	1.94	2.30	.718	1.594	1.25	1.000	.502	210	.344	8.5mm	.62
0.75	2.50	2.95	.937	2.000	1.25	1.250	.752	214	.406	10.5mm	.62
1.00	2.75	3.19	1.093	2.250	1.50	1.560	1.002	219	.492	12.5mm	.75
1.25	3.06	3.75	1.250	2.625	1.50	1.750	1.252	222	.531	12.5mm	.75
1.50	3.75	4.44	1.437	3.125	1.75	2.115	1.502	225	.656	16.5mm	.88
2.00	4.50	5.25	1.750	3.812	1.75	2.490	2.002	228	.781	21.0mm	.88
2.50	5.87	6.87	2.312	4.875	2.06	2.995	2.502	232	.906	25.0mm	1.03
3.00	7.00	8.50	2.812	6.000	2.62	3.615	3.002	237	1.156	31.0mm	1.31

O-ring not included. See page 5 for ordering information.

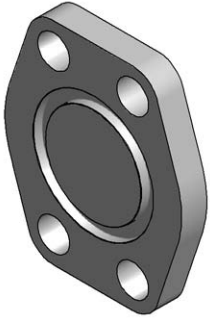
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

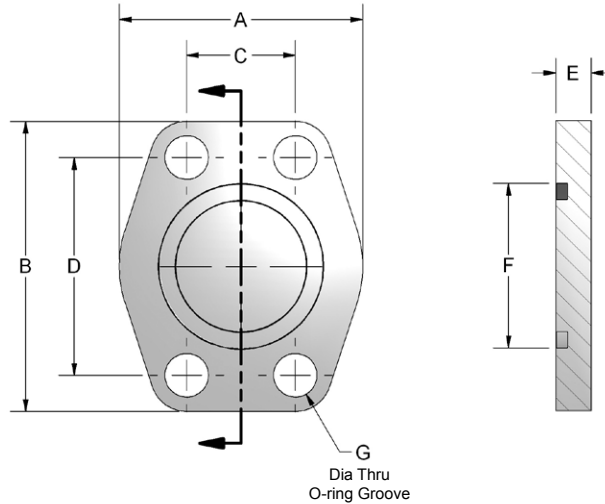
CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Zero PSI Shipping Plate



The Zero PSI Shipping Plate is a low-cost solution to gasketless port covers. Plates incorporate an O-ring groove on one side for "zero pressure" applications. The opposite face has a machined flat face for capping off hose ends. See pages 66-69 for pressure-rated flange blanking plates.



Ordering Information

FP	Flange Size	Material	Product Type	Rating Code	Mounting																																																		
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Zero PSI Shipping Plate

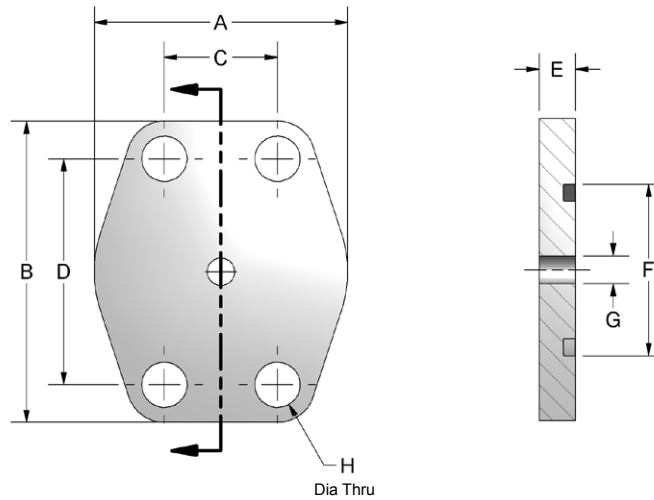
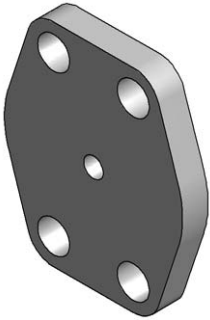
CODE 61 ZERO PSI SHIPPING PLATE											
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU		MOUNTING HARDWARE HHCS		
							Mounting X	Mounting Y	O-RING	Mounting U	Mounting M
0.50	1.81	2.12	.688	1.500	.33	1.000	.344	8.5mm	210	0.313-18x0.75	M8-1.25x20
0.75	2.06	2.56	.875	1.875	.33	1.250	.406	10.5mm	214	0.375-16x0.75	M10-1.5x20
1.00	2.31	2.75	1.031	2.063	.33	1.560	.406	10.5mm	219	0.375-16x0.75	M10-1.5x20
1.25	2.88	3.12	1.188	2.313	.33	1.750	.469	10.5mm	222	0.438-14x0.75	M10-1.5x20
1.50	3.25	3.69	1.406	2.750	.33	2.115	.531	12.5mm	225	0.500-13x0.75	M12-1.75x20
2.00	3.81	4.00	1.688	3.063	.33	2.490	.531	12.5mm	228	0.500-13x0.75	M12-1.75x20
2.50	4.28	4.50	2.000	3.500	.33	2.995	.531	12.5mm	232	0.500-13x0.75	M12-1.75x20
3.00	5.16	5.31	2.438	4.188	.33	3.615	.656	16.5mm	237	0.625-11x1.00	M16-2.0x25
3.50	5.50	6.00	2.750	4.750	.33	4.095	.656	16.5mm	241	0.625-11x1.00	M16-2.0x25
4.00	6.00	6.38	3.062	5.125	.33	4.595	.656	16.5mm	245	0.625-11x1.00	M16-2.0x25

Zero PSI Plates are silver trivalent plated.

CODE 62 ZERO PSI SHIPPING PLATE											
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU		MOUNTING HARDWARE HHCS		
							Mounting X	Mounting Y	O-RING	Mounting U	Mounting M
0.50	1.94	2.19	.718	1.594	.33	1.000	.344	8.5mm	210	0.313-18x0.75	M8-1.25x20
0.75	2.50	2.81	.937	2.000	.33	1.250	.406	10.5mm	214	0.375-16x0.75	M10-1.5x20
1.00	2.75	3.19	1.093	2.250	.33	1.560	.492	12.5mm	219	0.438-14x0.75	M12-1.75x20
1.25	3.06	3.75	1.250	2.625	.33	1.750	.531	12.5mm	222	0.500-13x0.75	M12-1.75x20
1.50	3.75	4.44	1.437	3.125	.33	2.115	.656	16.5mm	225	0.625-11x1.00	M16-2.0x25
2.00	4.50	5.25	1.750	3.812	.33	2.490	.781	21.0mm	228	0.750-10x1.00	M20-2.5x25

Zero PSI Plates are silver trivalent plated.

Orifice Plate



Ordering Information

FP	Flange Size	Material	Product Type	Rating Code	Mounting	/	Orifice Size																																																		
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Orifice Plate

CODE 61 ORIFICE PLATE										
FLANGE SIZE	A	B	C	D	E	F	G DIA.	ORING	H DIA THRU	
									Mounting X	Mounting Y
0.50	1.81	2.12	.688	1.500	.33	1.000	CUSTOMER SPECIFIED	210	.344	8.5mm
0.75	2.06	2.56	.875	1.875	.33	1.250		214	.413	10.5mm
1.00	2.31	2.75	1.031	2.063	.33	1.560		219	.413	10.5mm
1.25	2.88	3.12	1.188	2.313	.33	1.750		222	.469	10.5mm
1.50	3.25	3.69	1.406	2.750	.33	2.115		225	.531	12.5mm
2.00	3.81	4.00	1.688	3.063	.33	2.490		228	.531	12.5mm
2.50	4.28	4.50	2.000	3.500	.33	2.995		232	.531	12.5mm
3.00	5.16	5.31	2.438	4.188	.33	3.615		237	.656	16.5mm
3.50	5.50	6.00	2.750	4.750	.33	4.095		241	.656	16.5mm
4.00	6.00	6.38	3.062	5.125	.33	4.595		245	.656	16.5mm

O-ring not included. See page 5 for ordering information.

CODE 62 ORIFICE PLATE										
FLANGE SIZE	A	B	C	D	E	F	G DIA.	ORING	H DIA THRU	
									Mounting X	Mounting Y
0.50	1.94	2.19	.718	1.594	.33	1.000	CUSTOMER SPECIFIED	210	.354	8.5mm
0.75	2.50	2.81	.937	2.000	.33	1.250		214	.433	10.5mm
1.00	2.75	3.19	1.093	2.250	.33	1.560		219	.531	12.5mm
1.25	3.06	3.75	1.250	2.625	.33	1.750		222	.610	12.5mm
1.50	3.75	4.44	1.437	3.125	.33	2.115		225	.689	16.5mm
2.00	4.50	5.25	1.750	3.812	.33	2.490		228	.866	21.0mm

O-ring not included. See page 5 for ordering information.

Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.



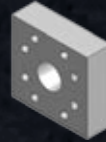
EXTENDING OUR ENGINEERED PACKAGING TO THE FLANGE SHIPPING PROCESS

FLANGE PATTERN ADAPTORS



Flange Pattern Adaptor - Style A

60-61



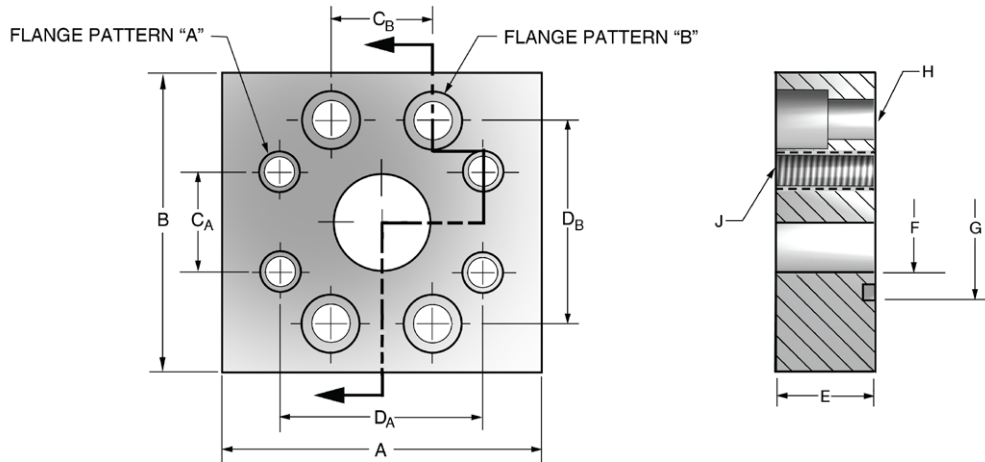
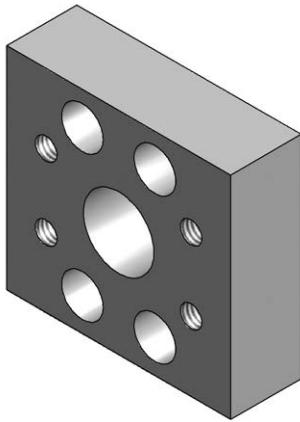
Flange Pattern Adaptor - Style B

62-63



**CONSIDER CUSTOM
APPLICATION FLANGES
CALL 800.959.7841**

Flange Pattern Adaptor - Style A



Ordering Information

FA	Material	Style	Flange Pattern A	Rating Pattern A	Flange Pattern B	Rating Pattern B	Mounting																																																																										
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Flange Pattern Adaptor - Style A

FLANGE ADAPTOR STYLE A																		
DAMAN PART NUMBER	FLANGE SIZE PATT. A	FLANGE SIZE PATT. B	A	B	C _A	D _A	C _B	D _B	E	F	G	H DIA THRU		J THREAD		MOUNTING HARDWARE SHCS		
												Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
FACA081082*	0.50 CD61	0.50 CD62	2.25	2.25	0.688	1.500	0.718	1.594	1.00	0.50	1.000	.344	8.5mm	0.312-18	M8-1.25	210	0.313-18x1.00	M8-1.25x25
FACA081121*	0.50 CD61	0.75 CD61	2.25	2.75	0.688	1.500	0.875	1.875	1.75	0.50	1.250	.406	10.5mm	0.312-18	M8-1.25	214	0.375-16x1.75	M10-1.5x45
FACA081161*	0.50 CD61	1.00 CD61	2.25	3.00	0.688	1.500	1.031	2.062	1.75	0.50	1.562	.406	10.5mm	0.312-18	M8-1.25	219	0.375-16x1.75	M10-1.5x45
FACA082122*	0.50 CD62	0.75 CD62	2.25	2.81	0.718	1.594	0.937	2.000	1.50	0.50	1.250	.406	10.5mm	0.312-18	M8-1.25	214	0.375-16x1.50	M10-1.5x40
FACA082162*	0.50 CD62	1.00 CD62	2.25	3.19	0.718	1.594	1.093	2.250	1.50	0.50	1.562	.468	12.5mm	0.312-18	M8-1.25	219	0.438-14x1.50	M12-1.75x40
FACA121122*	0.75 CD61	0.75 CD62	2.75	2.81	0.875	1.875	0.937	2.000	1.00	0.75	1.250	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.00	M10-1.5x25
FACA121161*	0.75 CD61	1.00 CD61	2.75	3.00	0.875	1.875	1.031	2.062	1.75	0.75	1.562	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.75	M10-1.5x45
FACA121201*	0.75 CD61	1.25 CD61	2.75	3.25	0.875	1.875	1.188	2.312	1.75	0.75	1.750	.468	10.5mm	0.375-16	M10-1.5	222	0.438-14x1.75	M10-1.5x45
FACA122162*	0.75 CD62	1.00 CD62	3.00	3.19	0.937	2.000	1.093	2.250	1.75	0.75	1.562	.468	12.5mm	0.375-16	M10-1.5	219	0.438-14x1.75	M12-1.75x45
FACA122202*	0.75 CD62	1.25 CD62	2.81	3.75	0.937	2.000	1.250	2.625	1.75	0.75	1.750	.531	12.5mm	0.375-16	M10-1.5	222	0.500-13x1.75	M12-1.75x45
FACA161162*	1.00 CD61	1.00 CD62	3.00	3.19	1.031	2.062	1.093	2.250	1.25	1.00	1.562	.468	12.5mm	0.375-16	M10-1.5	219	0.438-14x1.25	M12-1.75x30
FACA161201*	1.00 CD61	1.25 CD61	2.81	3.25	1.031	2.062	1.188	2.312	1.75	1.00	1.750	.468	10.5mm	0.375-16	M10-1.5	222	0.438-14x1.75	M10-1.5x45
FACA161241*	1.00 CD61	1.50 CD61	2.75	3.75	1.031	2.062	1.406	2.750	1.75	1.00	2.125	.531	12.5mm	0.375-16	M10-1.5	225	0.500-13x1.75	M12-1.75x45
FACA162202*	1.00 CD62	1.25 CD62	3.25	3.75	1.093	2.250	1.250	2.625	1.75	1.00	1.750	.531	12.5mm	0.438-14	M12-1.75	222	0.500-13x1.75	M12-1.75x45
FACA162242*	1.00 CD62	1.50 CD62	3.25	4.50	1.093	2.250	1.437	3.125	2.00	1.00	2.125	.656	16.5mm	0.438-14	M12-1.75	225	0.625-11x2.00	M16-2.0x50
FACA201202*	1.25 CD61	1.25 CD62	3.25	3.75	1.188	2.312	1.250	2.625	1.25	1.25	1.750	.531	12.5mm	0.438-14	M10-1.5	222	0.500-13x1.25	M12-1.75x30
FACA201241*	1.25 CD61	1.50 CD61	3.50	3.75	1.188	2.312	1.406	2.750	2.00	1.25	2.125	.531	12.5mm	0.438-14	M10-1.5	225	0.500-13x2.00	M12-1.75x50
FACA201321*	1.25 CD61	2.00 CD61	3.25	4.00	1.188	2.312	1.688	3.062	2.00	1.25	2.500	.531	12.5mm	0.438-14	M10-1.5	228	0.500-13x2.00	M12-1.75x50
FACA202242*	1.25 CD62	1.50 CD62	3.75	4.50	1.250	2.625	1.437	3.125	2.00	1.25	2.125	.656	16.5mm	0.500-13	M12-1.75	225	0.625-11x2.00	M16-2.0x50
FACA202322*	1.25 CD62	2.00 CD62	4.00	5.25	1.250	2.625	1.750	3.812	2.00	1.25	2.500	.781	21.0mm	0.500-13	M12-1.75	228	0.750-10x2.25	M20-2.5x55
FACA241242*	1.50 CD61	1.50 CD62	3.75	4.50	1.406	2.750	1.437	3.125	1.50	1.50	2.125	.656	16.5mm	0.500-13	M12-1.75	225	0.625-11x1.50	M16-2.0x40
FACA241321*	1.50 CD61	2.00 CD61	3.75	4.00	1.406	2.750	1.688	3.062	2.00	1.50	2.500	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x2.00	M12-1.75x50
FACA241401*	1.50 CD61	2.50 CD61	4.00	4.50	1.406	2.750	2.000	3.500	2.00	1.50	3.000	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x2.00	M12-1.75x50
FACA242322*	1.50 CD62	2.00 CD62	4.50	5.25	1.437	3.125	1.750	3.812	2.25	1.50	2.500	.781	21.0mm	0.625-11	M16-2.0	228	0.750-10x2.50	M20-2.5x65
FACA242402*	1.50 CD62	2.50 CD62	5.00	7.00	1.437	3.125	2.312	4.875	2.50	1.50	3.000	.906	25.0mm	0.625-11	M16-2.0	232	0.875-9x2.75	M24-3.0x70
FACA321322*	2.00 CD61	2.00 CD62	4.00	5.25	1.688	3.062	1.750	3.812	1.75	1.94	2.500	.781	21.0mm	0.500-13	M12-1.75	228	0.750-10x2.00	M20-2.5x50
FACA321401*	2.00 CD61	2.50 CD61	4.00	4.50	1.688	3.062	2.000	3.500	2.00	1.94	3.000	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x2.00	M12-1.75x50
FACA321481*	2.00 CD61	3.00 CD61	4.50	5.31	1.688	3.062	2.438	4.188	2.00	1.94	3.625	.656	16.5mm	0.500-13	M12-1.75	237	0.625-11x2.00	M16-2.0x50
FACA322402*	2.00 CD62	2.50 CD62	5.25	7.00	1.750	3.812	2.312	4.875	2.50	1.94	3.000	.906	25.0mm	0.750-10	M20-2.5	232	0.875-9x2.75	M24-3.0x70
FACA322482*	2.00 CD62	3.00 CD62	6.00	8.50	1.750	3.812	2.812	6.000	2.50	1.94	3.625	1.188	31.0mm	0.750-10	M20-2.5	237	1.125-7x2.50	M30-3.5x65
FACA401402*	2.50 CD61	2.50 CD62	5.00	6.88	2.000	3.500	2.312	4.875	2.00	2.44	3.000	.906	25.0mm	0.500-13	M12-1.75	232	0.875-9x2.25	M24-3.0x55
FACA401481*	2.50 CD61	3.00 CD61	4.50	5.50	2.000	3.500	2.438	4.188	2.25	2.44	3.625	.656	16.5mm	0.500-13	M12-1.75	237	0.625-11x2.25	M16-2.0x55
FACA402482*	2.50 CD62	3.00 CD62	7.00	8.50	2.312	4.875	2.812	6.000	2.50	2.44	3.625	1.188	31.0mm	0.875-9	M24-3.0	237	1.125-7x2.50	M30-3.5x65
FACA481482*	3.00 CD61	3.00 CD62	6.00	8.50	2.438	4.188	2.812	6.000	2.50	2.94	3.625	1.188	31.0mm	0.625-11	M16-2.0	237	1.125-7x2.50	M30-3.5x65
FACA481561*	3.00 CD61	3.50 CD61	5.50	6.00	2.438	4.188	2.750	4.750	2.25	2.94	4.109	.656	16.5mm	0.625-11	M16-2.0	241	0.625-11x2.25	M16-2.0x55
FACA481641*	3.00 CD61	4.00 CD61	5.50	6.38	2.438	4.188	3.062	5.125	2.25	2.94	4.609	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.25	M16-2.0x55
FACA561641*	3.50 CD61	4.00 CD61	6.00	6.38	2.750	4.750	3.062	5.125	2.25	3.44	4.609	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.25	M16-2.0x55
FACA641801*	4.00 CD61	5.00 CD61	7.00	7.25	3.062	5.125	3.625	6.000	2.25	3.94	5.609	.656	16.5mm	0.625-11	M16-2.0	253	0.625-11x2.25	M16-2.0x55

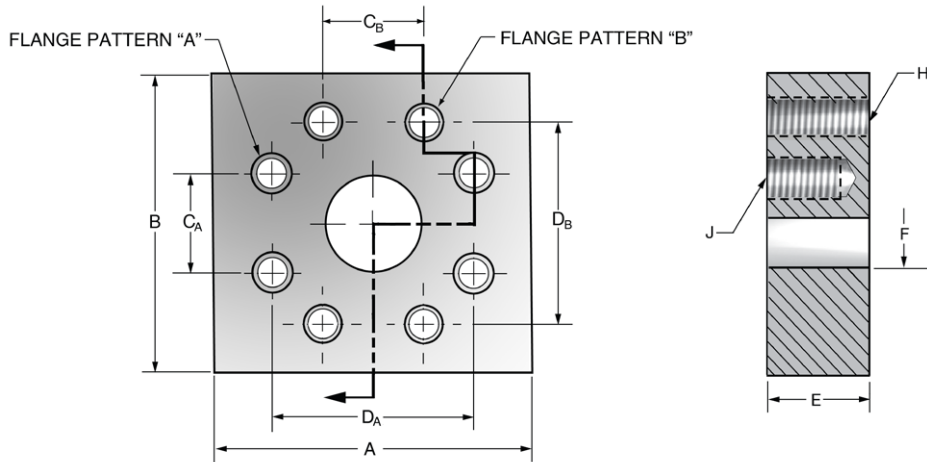
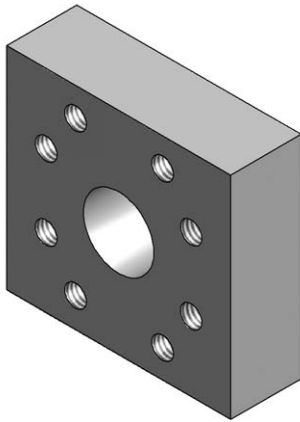
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Flange Pattern Adaptor - Style B



Ordering Information

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08	0.50"	40	2.50"																																																																										
12	0.75"	48	3.00"																																																																										
16	1.00"	56	3.50"																																																																										
20	1.25"	64	4.00"																																																																										
24	1.50"	80	5.00"																																																																										
32	2.00"																																																																												
Mounting																																																																													
X	No kit included UNC mounting holes																																																																												
Y	No kit included Metric mounting holes																																																																												
		<table border="1"> <tr> <th colspan="2">Style</th> </tr> <tr> <td>B</td> <td>Patt. A = Flat-faced and tapped Patt. B = Flat-faced and tapped</td> </tr> </table>	Style		B	Patt. A = Flat-faced and tapped Patt. B = Flat-faced and tapped	<table border="1"> <tr> <th colspan="2">Rating Pattern A</th> </tr> <tr> <td>1</td> <td>Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1</td> </tr> <tr> <td>2</td> <td>Code 62 • SAE J518 40 MPa • ISO 6162-2</td> </tr> </table>	Rating Pattern A		1	Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1	2	Code 62 • SAE J518 40 MPa • ISO 6162-2	<table border="1"> <tr> <th colspan="2">Rating Pattern B</th> </tr> <tr> <td>1</td> <td>Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1</td> </tr> <tr> <td>2</td> <td>Code 62 • SAE J518 40 MPa • ISO 6162-2</td> </tr> </table>	Rating Pattern B		1	Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1	2	Code 62 • SAE J518 40 MPa • ISO 6162-2																																																									
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2	Code 62 • SAE J518 40 MPa • ISO 6162-2																																																																												

Flange Pattern Adaptor - Style B

FLANGE ADAPTOR STYLE B														
DAMAN PART NUMBER	FLANGE SIZE PATT. A	FLANGE SIZE PATT. B	A	B	C _A	D _A	C _B	D _B	E	F	H THREAD		J THREAD	
											UNC-2B U or X	ISO 6H M or Y	UNC-2B U or X	ISO 6H M or Y
FACB081082*	0.50 CD61	0.50 CD62	2.25	2.25	0.688	1.500	0.718	1.594	1.00	0.500	0.313-18	M8-1.25	0.313-18	M8-1.25
FACB081121*	0.50 CD61	0.75 CD61	2.25	2.75	0.688	1.500	0.875	1.875	1.75	0.500	0.375-16	M10-1.5	0.313-18	M8-1.25
FACB081161*	0.50 CD61	1.00 CD61	2.25	3.00	0.688	1.500	1.031	2.062	1.75	0.500	0.375-16	M10-1.5	0.313-18	M8-1.25
FACB082122*	0.50 CD62	0.75 CD62	2.25	2.81	0.718	1.594	0.937	2.000	1.50	0.500	0.375-16	M10-1.5	0.313-18	M8-1.25
FACB082162*	0.50 CD62	1.00 CD62	2.25	3.19	0.718	1.594	1.093	2.250	1.50	0.500	0.438-14	M12-1.75	0.313-18	M8-1.25
FACB121122*	0.75 CD61	0.75 CD62	2.75	2.81	0.875	1.875	0.937	2.000	1.00	0.750	0.375-16	M10-1.5	0.375-16	M10-1.5
FACB121161*	0.75 CD61	1.00 CD61	2.75	3.00	0.875	1.875	1.031	2.062	1.75	0.750	0.375-16	M10-1.5	0.375-16	M10-1.5
FACB121201*	0.75 CD61	1.25 CD61	2.75	3.25	0.875	1.875	1.188	2.312	1.75	0.750	0.438-14	M10-1.5	0.375-16	M10-1.5
FACB122162*	0.75 CD62	1.00 CD62	3.00	3.19	0.937	2.000	1.093	2.250	1.75	0.750	0.438-14	M12-1.75	0.375-16	M10-1.5
FACB122202*	0.75 CD62	1.25 CD62	2.81	3.75	0.937	2.000	1.250	2.625	1.75	0.750	0.500-13	M12-1.75	0.375-16	M10-1.5
FACB161162*	1.00 CD61	1.00 CD62	3.00	3.19	1.031	2.062	1.093	2.250	1.25	1.000	0.438-14	M12-1.75	0.375-16	M10-1.5
FACB161201*	1.00 CD61	1.25 CD61	2.81	3.25	1.031	2.062	1.188	2.312	1.75	1.000	0.438-14	M10-1.5	0.375-16	M10-1.5
FACB161241*	1.00 CD61	1.50 CD61	2.75	3.75	1.031	2.062	1.406	2.750	1.75	1.000	0.500-13	M12-1.75	0.375-16	M10-1.5
FACB162202*	1.00 CD62	1.25 CD62	3.25	3.75	1.093	2.250	1.250	2.625	1.75	1.000	0.500-13	M12-1.75	0.438-14	M12-1.75
FACB162242*	1.00 CD62	1.50 CD62	3.25	4.50	1.093	2.250	1.437	3.125	2.00	1.000	0.625-11	M16-2.0	0.438-14	M12-1.75
FACB201202*	1.25 CD61	1.25 CD62	3.25	3.75	1.188	2.312	1.250	2.625	1.25	1.250	0.500-13	M12-1.75	0.438-14	M10-1.5
FACB201241*	1.25 CD61	1.50 CD61	3.50	3.75	1.188	2.312	1.406	2.750	2.00	1.250	0.500-13	M12-1.75	0.438-14	M10-1.5
FACB201321*	1.25 CD61	2.00 CD61	3.25	4.00	1.188	2.312	1.688	3.062	2.00	1.250	0.500-13	M12-1.75	0.438-14	M10-1.5
FACB202242*	1.25 CD62	1.50 CD62	3.75	4.50	1.250	2.625	1.437	3.125	2.00	1.250	0.625-11	M16-2.0	0.500-13	M12-1.75
FACB202322*	1.25 CD62	2.00 CD62	4.00	5.25	1.250	2.625	1.750	3.812	2.00	1.250	0.750-10	M20-2.5	0.500-13	M12-1.75
FACB241242*	1.50 CD61	1.50 CD62	3.75	4.50	1.406	2.750	1.437	3.125	1.50	1.500	0.625-11	M16-2.0	0.500-13	M12-1.75
FACB241321*	1.50 CD61	2.00 CD61	3.75	4.00	1.406	2.750	1.688	3.062	2.00	1.500	0.500-13	M12-1.75	0.500-13	M12-1.75
FACB241401*	1.50 CD61	2.50 CD61	4.00	4.50	1.406	2.750	2.000	3.500	2.00	1.500	0.500-13	M12-1.75	0.500-13	M12-1.75
FACB242322*	1.50 CD62	2.00 CD62	4.50	5.25	1.437	3.125	1.750	3.812	2.25	1.500	0.750-10	M20-2.5	0.625-11	M16-2.0
FACB242402*	1.50 CD62	2.50 CD62	5.00	7.00	1.437	3.125	2.312	4.875	2.50	1.500	0.875-9	M24-3.0	0.625-11	M16-2.0
FACB321322*	2.00 CD61	2.00 CD62	4.00	5.25	1.688	3.062	1.750	3.812	1.75	1.938	0.750-10	M20-2.5	0.500-13	M12-1.75
FACB321401*	2.00 CD61	2.50 CD61	4.00	4.50	1.688	3.062	2.000	3.500	2.00	1.938	0.500-13	M12-1.75	0.500-13	M12-1.75
FACB321481*	2.00 CD61	3.00 CD61	4.50	5.31	1.688	3.062	2.438	4.188	2.00	1.938	0.625-11	M16-2.0	0.500-13	M12-1.75
FACB322402*	2.00 CD62	2.50 CD62	5.25	7.00	1.750	3.812	2.312	4.875	2.50	1.938	0.875-9	M24-3.0	0.750-10	M20-2.5
FACB322482*	2.00 CD62	3.00 CD62	6.00	8.50	1.750	3.812	2.812	6.000	2.50	1.938	1.125-7	M30-3.5	0.750-10	M20-2.5
FACB401402*	2.50 CD61	2.50 CD62	5.00	6.88	2.000	3.500	2.312	4.875	2.00	2.438	0.875-9	M24-3.0	0.500-13	M12-1.75
FACB401481*	2.50 CD61	3.00 CD61	4.50	5.50	2.000	3.500	2.438	4.188	2.25	2.438	0.625-11	M16-2.0	0.500-13	M12-1.75
FACB402482*	2.50 CD62	3.00 CD62	7.00	8.50	2.312	4.875	2.812	6.000	2.50	2.438	1.125-7	M30-3.5	0.875-9	M24-3.0
FACB481482*	3.00 CD61	3.00 CD62	6.00	8.50	2.438	4.188	2.812	6.000	2.50	2.938	1.125-7	M30-3.5	0.625-11	M16-2.0
FACB481561*	3.00 CD61	3.50 CD61	5.50	6.00	2.438	4.188	2.750	4.750	2.25	2.938	0.625-11	M16-2.0	0.625-11	M16-2.0
FACB481641*	3.00 CD61	4.00 CD61	5.50	6.38	2.438	4.188	3.062	5.125	2.25	2.938	0.625-11	M16-2.0	0.625-11	M16-2.0
FACB561641*	3.50 CD61	4.00 CD61	6.00	6.38	2.750	4.750	3.062	5.125	2.25	3.438	0.625-11	M16-2.0	0.625-11	M16-2.0
FACB641801*	4.00 CD61	5.00 CD61	7.00	7.25	3.062	5.125	3.625	6.000	2.25	3.938	0.625-11	M16-2.0	0.625-11	M16-2.0

Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

FLANGES



Blanking Plate - Carbon Steel

66-67



Blanking Plate - Stainless Steel

68-69



NPTF Female Port - Carbon Steel

70-71



NPTF Female Port - Stainless Steel

72-73



SAE Female Port - Carbon Steel

74-75



SAE Female Port - Stainless Steel

76-77



BSPF Female Port

78-79



JIC Male Thread

80-81



ORFS Male Thread

82-83



Flat Socket Weld Pipe - Carbon Steel

84-85



Flat Socket Weld Pipe - Stainless Steel

86-87



Flat Socket Weld Tube

88-89



Deep Socket Weld Pipe

90-91



Deep Socket Weld Tube

92-93



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APPLICATION FLANGES
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Hydraulic Flange Products

Better System Connections Begin with a Daman Flange

FLANGES

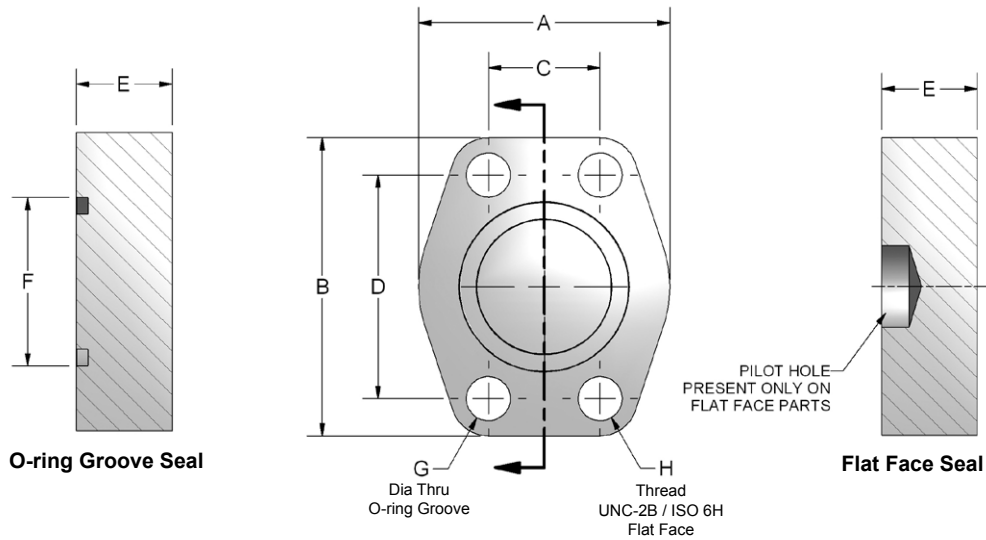
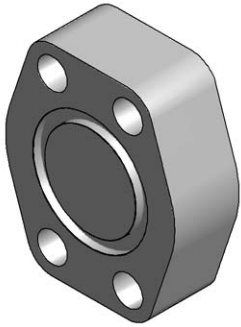
	Butt Weld Pipe Code 61 - Carbon Steel	94-95
	Butt Weld Pipe Code 61 - Stainless Steel	96-97
	Butt Weld Pipe Code 62 - Carbon Steel	98-99
	Butt Weld Pipe Code 62 - Stainless Steel	100-101
	Saddle Weld Pipe / Tube	102-103
	Tank Pilot with NPTF Port	104-105
	Elbow / Tee Junction Block	106-109
	Threaded Elbow, NPTF/SAE Port	110-111
	Socket Weld Pipe Elbow - Carbon Steel	112-113
	Socket Weld Pipe Elbow - Stainless Steel	114-115
	Socket Weld Tube Elbow	116-117
	3000 Series Square Pattern, NPTF Port	118-119
	3000 Series Square Pattern, Socket Weld Pipe	120-121
	6000 Series Square Pattern, Socket Weld Pipe	122-123



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APPLICATION FLANGES
CALL 800.959.7841**

Blanking Plate

Carbon Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Mounting
	Rating code 1 or 2	C Carbon Steel	K Blanking Plate	G O-ring Groove F Flat Face	1 Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1 2 Code 62 • SAE J518 40 MPa • ISO 6162-2	Seal code G only
08	0.50"					U UNC mounting kit
12	0.75"					M Metric mounting kit
16	1.00"					Seal code G or F
20	1.25"					X No kit included UNC mounting holes
24	1.50"					Y No kit included Metric mounting holes
32	2.00"					
40	2.50"					
48	3.00"					
	Rating code 1 only					
56	3.50"					
64	4.00"					
80	5.00"					

Blanking Plate

Carbon Steel

CODE 61 BLANKING PLATE													
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU		H THREAD		MOUNTING HARDWARE SHCS		
							Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	1.813	2.125	.688	1.50	.75	1.000	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.50	M8-1.25x40
0.75	2.063	2.563	.875	1.875	.75	1.250	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	2.313	2.750	1.031	2.063	.88	1.560	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.75	M10-1.5x45
1.25	2.875	3.125	1.188	2.313	.94	1.750	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.50	3.250	3.688	1.406	2.750	1.19	2.115	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x2.25	M12-1.75x55
2.00	3.813	4.000	1.688	3.063	1.44	2.490	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x2.50	M12-1.75x65
2.50	4.281	4.500	2.000	3.500	1.82	2.995	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x2.75	M12-1.75x70
3.00	5.156	5.313	2.438	4.188	2.19	3.615	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x3.50	M16-2.0x90
3.50	5.500	6.000	2.750	4.750	1.44	4.095	.656	16.5mm	0.625-11	M16-2.0	241	0.625-11x2.75	M16-2.0x70
4.00	6.00	6.38	3.062	5.125	1.44	4.595	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.75	M16-2.0x70
5.00	7.12	7.25	3.625	6.000	1.75	5.595	.656	16.5mm	0.625-11	M16-2.0	253	0.625-11x3.00	M16-2.0x75

CODE 62 BLANKING PLATE													
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU		H THREAD		MOUNTING HARDWARE SHCS		
							Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	1.94	2.30	.718	1.594	1.25	1.000	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x2.00	M8-1.25x50
0.75	2.50	2.95	.937	2.000	1.25	1.250	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	2.75	3.19	1.093	2.250	1.50	1.560	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.25	3.06	3.75	1.250	2.625	1.43	1.750	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x2.50	M12-1.75x65
1.50	3.75	4.44	1.437	3.125	1.82	2.115	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.00	M16-2.0x75
2.00	4.50	5.25	1.750	3.812	1.82	2.490	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x3.00	M20-2.5x75
2.50	5.87	6.87	2.312	4.875	1.93	2.995	.906	25.0mm	0.875-9	M24-3.0	232	0.875-9x3.50	M24-3.0x90
3.00	7.00	8.50	2.812	6.000	2.69	3.615	1.190	31.0mm	1.125-7	M30-3.5	237	1.125-7x4.50	M30-3.5x110

Pressure Ratings and Fastener Torque Values

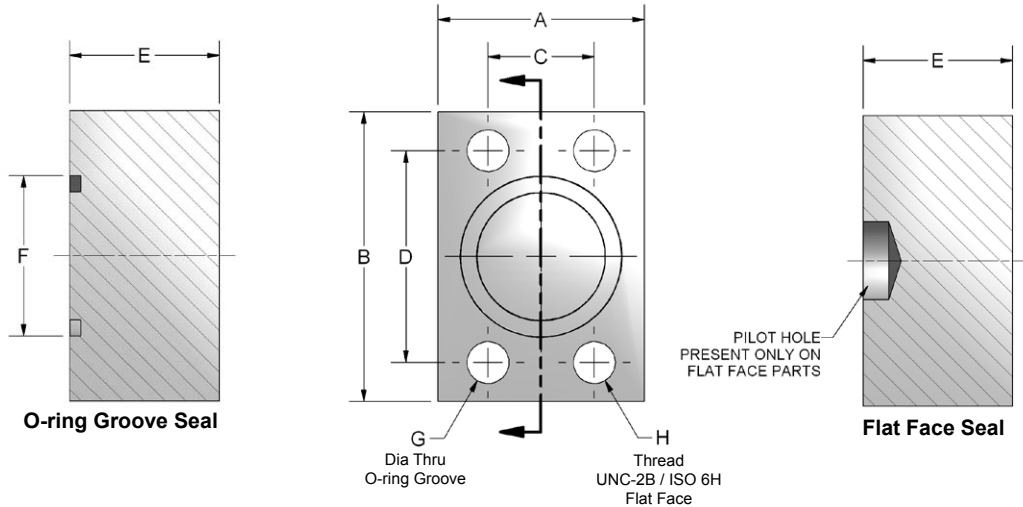
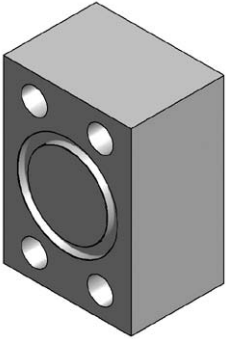
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Blanking Plate

Stainless Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Mounting																																																												
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Blanking Plate

Stainless Steel

CODE 61 BLANKING PLATE													
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU		H THREAD		MOUNTING HARDWARE SHCS		
							Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	1.50	2.12	.688	1.50	1.20	1.000	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x2.00	M8-1.25x50
0.75	1.75	2.62	.875	1.875	1.20	1.250	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	2.00	2.82	1.031	2.063	1.45	1.560	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x2.25	M10-1.5x55
1.25	2.50	3.19	1.188	2.313	1.45	1.750	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x2.25	M10-1.5x55
1.50	2.75	3.75	1.406	2.750	1.70	2.115	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x2.50	M12-1.75x65
2.00	3.25	4.00	1.688	3.063	1.70	2.490	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x2.50	M12-1.75x65
2.50	4.00	4.50	2.000	3.500	1.95	2.995	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x2.75	M12-1.75x70
3.00	4.50	5.31	2.438	4.188	2.20	3.615	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x3.50	M16-2.0x90
3.50	5.00	6.00	2.750	4.750	1.45	4.095	.656	16.5mm	0.625-11	M16-2.0	241	0.625-11x2.75	M16-2.0x70
4.00	5.50	6.38	3.062	5.125	1.45	4.595	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.75	M16-2.0x70

CODE 62 BLANKING PLATE													
FLANGE SIZE	A	B	C	D	E	F	G DIA THRU		H THREAD		MOUNTING HARDWARE SHCS		
							Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	1.75	2.22	.718	1.594	.94	1.000	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.50	M8-1.25x40
0.75	2.00	2.81	.937	2.000	1.19	1.250	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	2.25	3.19	1.093	2.250	1.44	1.560	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.25	M12-1.75x55
1.25	2.75	3.75	1.250	2.625	1.44	1.750	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x2.50	M12-1.75x65
1.50	3.25	4.50	1.437	3.125	1.69	2.115	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x2.75	M16-2.0x70
2.00	4.00	5.25	1.750	3.812	1.69	2.490	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x3.00	M20-2.5x75
2.50	5.00	6.88	2.312	4.875	1.94	2.995	.906	25.0mm	0.875-9	M24-3.0	232	0.875-9x3.75	M24-3.0x90
3.00	6.00	8.50	2.812	6.000	2.44	3.615	1.190	31.0mm	1.125-7	M30-3.5	237	1.125-7x4.50	M30-3.5x110

Pressure Ratings and Fastener Torque Values

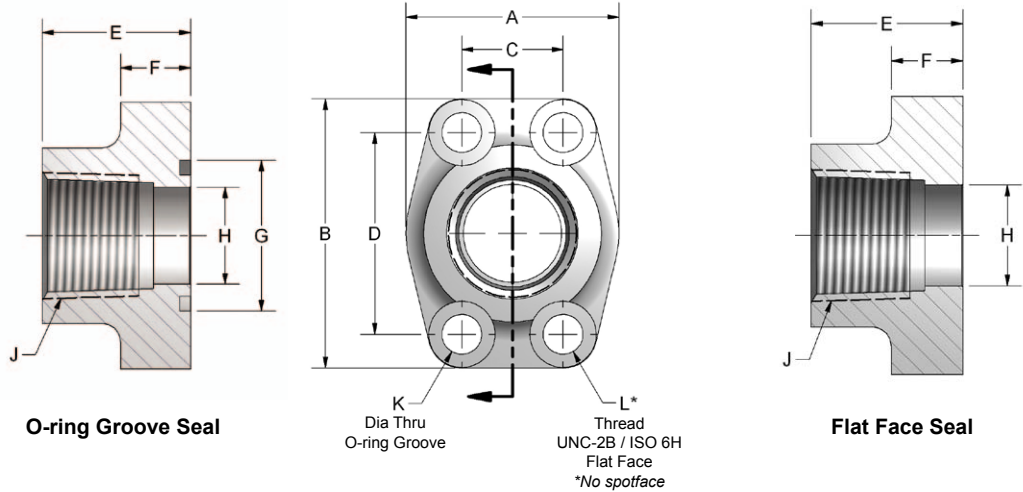
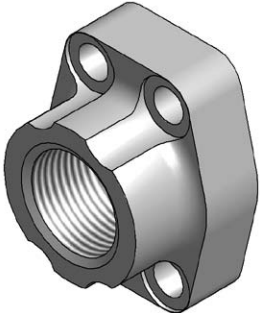
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

NPTF Female Port

Carbon Steel



Ordering Information

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NPTF Female Port

Carbon Steel

CODE 61 NPTF FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	F	G	H	J NPTF	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	1/2-14	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	3/4-14	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1-11.5	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1 1/4-11.5	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1 1/2-11.5	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2-11.5	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x1.75	M12-1.75x45
2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.502	2 1/2-8	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x1.75	M12-1.75x45
3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	3.002	3-8	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x2.00	M16-2.0x50
3.50	3.50	5.35	5.98	2.750	4.750	2.19	1.06	4.095	3.500	3 1/2-8	.656	16.5mm	0.625-11	M16-2.0	241	0.625-11x2.00	M16-2.0x50
4.00	4.00	5.75	6.38	3.062	5.125	2.19	1.06	4.595	3.940	4-8	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.00	M16-2.0x50

CODE 62 NPTF FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	F	G	H	J NPTF	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	1/2-14	.344	8.5mm	0.312-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	3/4-14	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1-11.5	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	3.07	3.75	1.250	2.625	1.77	1.06	1.750	1.252	1 1/4-11.5	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x1.75	M12-1.75x45
1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1 1/2-11.5	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2-11.5	.781	21.0mm	0.750-10	M20.2.5	228	0.750-10x2.75	M20-2.5x70

Pressure Ratings and Fastener Torque Values

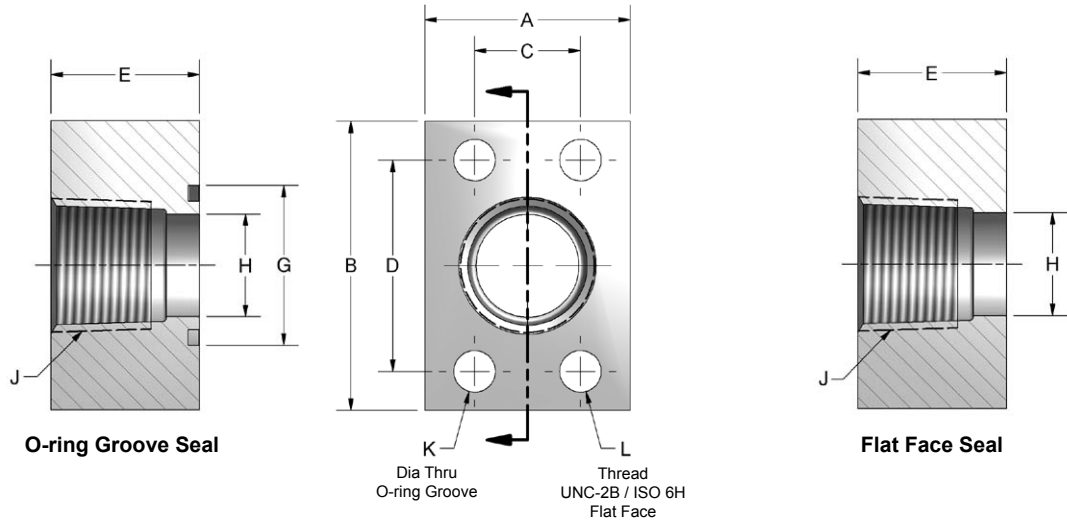
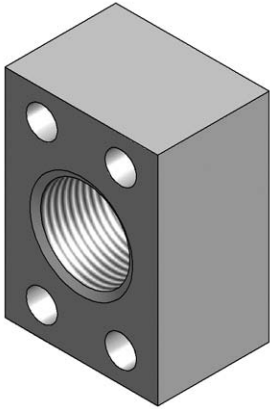
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

NPTF Female Port

Stainless Steel



Ordering Information

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NPTF Female Port

Stainless Steel

CODE 61 NPTF FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	G	H	J NPTF	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS			
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M	
0.50	0.50	1.50	2.12	.688	1.500	1.20	1.000	.502	.50	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18X1.75	M8-1.25x45	
0.75	0.75	1.75	2.62	.875	1.875	1.20	1.250	.752	.75	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16X2.00	M10-1.5x50	
1.00	1.00	2.00	2.82	1.031	2.062	1.45	1.560	1.002	1.00	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16X2.25	M10-1.5x55	
1.25	1.25	2.50	3.19	1.188	2.312	1.45	1.750	1.252	1.25	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14X2.25	M10-1.5x55	
1.50	1.50	2.75	3.75	1.406	2.750	1.70	2.115	1.502	1.50	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13X2.50	M12-1.75x65	
2.00	2.00	3.25	4.00	1.688	3.062	1.70	2.490	2.002	2.00	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13X2.50	M12-1.75x65	
2.50	2.50	4.00	4.50	2.000	3.500	1.95	2.995	2.502	2.50	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13X2.75	M12-1.75x70	
3.00	3.00	4.50	5.31	2.438	4.188	2.20	3.615	3.002	3.00	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11X3.00	M16-2.0x75	

CODE 62 NPTF FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	G	H	J NPTF	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS			
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M	
0.50	0.50	1.75	2.22	.718	1.594	.95	1.000	.502	.50	.344	8.5mm	5/6-18	M8-1.25	210	0.313-18X1.50	M8-1.25x40	
0.75	0.75	2.00	2.81	.937	2.000	1.20	1.250	.752	.75	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16X2.00	M10-1.5x50	
1.00	1.00	2.25	3.19	1.093	2.250	1.45	1.560	1.002	1.00	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14X2.50	M12-1.75x65	
1.25	1.25	2.75	3.75	1.250	2.625	1.45	1.750	1.252	1.25	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13X2.25	M12-1.75x55	
1.50	1.50	3.25	4.50	1.437	3.125	1.70	2.115	1.502	1.50	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11X2.75	M16-2.0x70	
2.00	2.00	4.00	5.25	1.750	3.812	1.70	2.490	2.002	2.00	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10X3.00	M20-2.5x75	

Pressure Ratings and Fastener Torque Values

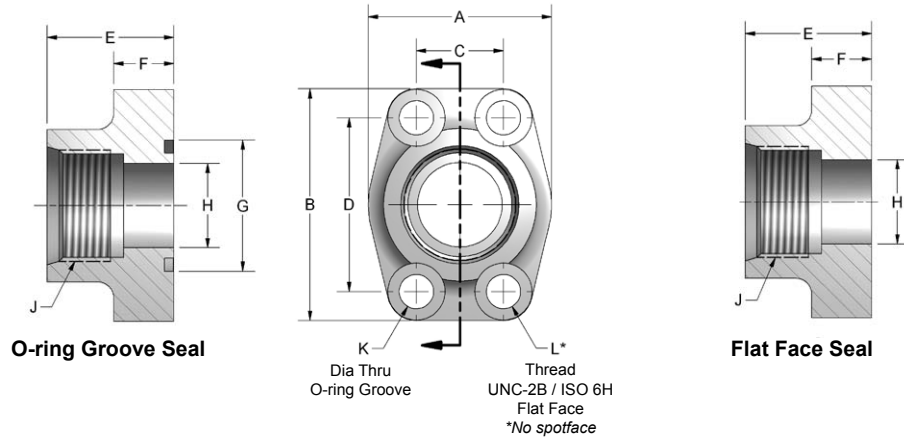
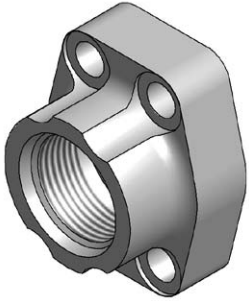
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

SAE Female Port

Carbon Steel



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SAE Female Port

Carbon Steel

CODE 61 SAE FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	F	G	H	J SAE	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	0.750-16	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	1.062-12	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1.312-12	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1.625-12	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1.875-12	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x1.75	M12-1.75x45
2.00*	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2.500-12	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x1.75	M12-1.75x45

*500 PSI max for 2.00" flange.

CODE 62 SAE FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	F	G	H	J SAE	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	0.750-16	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	1 1/6-12	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1 5/16-12	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	3.07	3.75	1.250	2.625	1.77	1.06	1.750	1.252	1 5/8-12	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x1.75	M12-1.75x45
1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1.875-12	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2.500-12	.781	21.0mm	0.750-10	M20.2.5	228	0.750-10x2.75	M20-2.5x70

Pressure Ratings and Fastener Torque Values

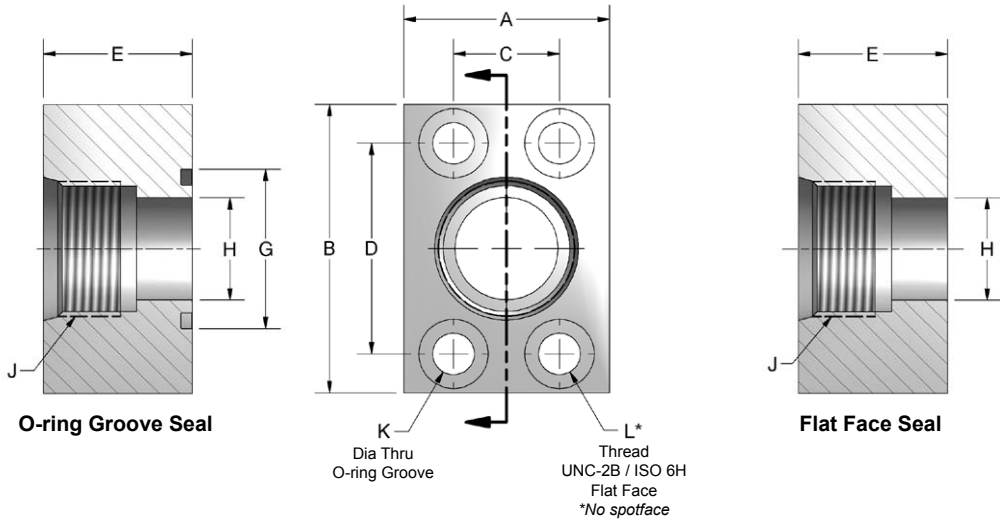
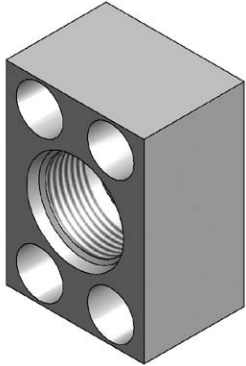
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

SAE Female Port

Stainless Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Port Size	Port Type	Mounting																																																																						
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SAE Female Port

Stainless Steel

CODE 61 SAE FEMALE PORT																
FLANGE SIZE	PORT SIZE	A	B	C	D	E	G	H	J SAE	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.50	2.12	.688	1.500	1.20	1.000	.502	0.750-16	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.75	2.62	.875	1.875	1.20	1.250	.752	1.062-12	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.00	2.82	1.031	2.062	1.45	1.560	1.002	1.312-12	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.50	3.19	1.188	2.312	1.45	1.750	1.252	1.625-12	.469	10.5mm	7/16-14	M10-1.5	222	7/16-14x1.75	M10-1.5x45
1.50	1.50	2.75	3.75	1.406	2.750	1.70	2.115	1.502	1.875-12	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13X2.00	M12-1.75x50
2.00*	2.00	3.25	4.00	1.688	3.062	1.70	2.490	2.002	2.500-12	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13X2.00	M12-1.75x50

*500 PSI max for 2.00" flange.

CODE 62 SAE FEMALE PORT																
FLANGE SIZE	PORT SIZE	A	B	C	D	E	G	H	J SAE	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.75	2.22	.718	1.594	.95	1.000	.502	0.750-16	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.00	2.81	.937	2.000	1.20	1.250	.752	1 1/6-12	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.25	3.19	1.093	2.250	1.45	1.560	1.002	1 5/16-12	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	2.75	3.75	1.250	2.625	1.45	1.750	1.252	1 5/8-12	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13X1.50	M12-1.75x40
1.50	1.50	3.25	4.50	1.437	3.125	1.70	2.115	1.502	1.875-12	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11X2.00	M16-2.0x50
2.00	2.00	4.00	5.25	1.750	3.812	1.70	2.490	2.002	2.500-12	.781	21.0mm	0.750-10	M20.2.5	228	0.750-10X2.00	M20-2.5x50

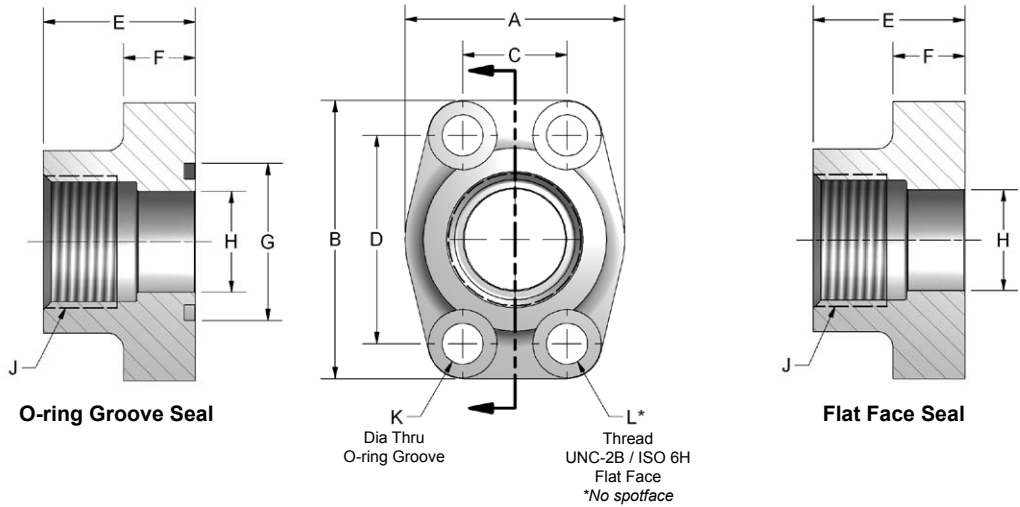
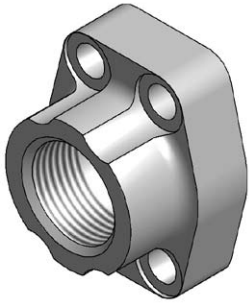
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

BSPP Female Port



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Port Size	Port Type	Mounting									
	<table border="1"> <thead> <tr> <th colspan="2">Flange Size</th> </tr> <tr> <td colspan="2">Rating code 1 or 2</td> </tr> <tr> <td>08</td> <td>0.50"</td> </tr> <tr> <td>12</td> <td>0.75"</td> </tr> <tr> <td>16</td> <td>1.00"</td> </tr> <tr> <td>20</td> <td>1.25"</td> </tr> <tr> <td>24</td> <td>1.50"</td> </tr> <tr> <td>32</td> <td>2.00"</td> </tr> </thead></table>	Flange Size		Rating code 1 or 2		08	0.50"	12	0.75"	16	1.00"	20	1.25"	24	1.50"	32	2.00"
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 | Material | | |----------|--------------| | C | Carbon Steel | | | Product Type | | |--------------|-------------| | F | Female Port | | | Seal | | |------|---------------| | G | O-ring Groove | | F | Flat Face | | | Rating Code | | |-------------|---| | 1 | Code 61 • SAE J518
3.5 - 35 MPa • ISO 6162-1 | | 2 | Code 62 • SAE J518
40 MPa • ISO 6162-2 | | | Port Size | | |---|-------| | Not all port sizes are available for each flange size. See chart next page. | | | 08 | 0.50" | | 12 | 0.75" | | 16 | 1.00" | | 20 | 1.25" | | 24 | 1.50" | | 32 | 2.00" | | | Port Type | | |-----------|------------------| | B | BSPP
ISO 1179 | | | Mounting | | |------------------|--| | Seal code G only | | | U | UNC mounting kit | | M | Metric mounting kit | | Seal code G or F | | | X | No kit included
UNC mounting holes | | Y | No kit included
Metric mounting holes | |

BSPP Female Port

CODE 61 BSPP FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	F	G	H	J BSPP	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	.50-14	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	.75-14	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1.00-11	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1.25-11	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1.50-11	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2.00-11	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x1.75	M12-1.75x45

CODE 62 BSPP FEMALE PORT																	
FLANGE SIZE	PORT SIZE	A	B	C	D	E	F	G	H	J BSPP	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	.50-14	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	.75-14	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1.00-11	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	3.07	3.75	1.250	2.625	1.77	1.06	1.750	1.252	1.25-11	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x1.50	M12-1.75x40
1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1.50-11	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x2.00	M16-2.0x50
2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2.00-11	.781	21.0mm	0.750-10	M20.2.5	228	0.750-10x2.75	M20-2.5x65

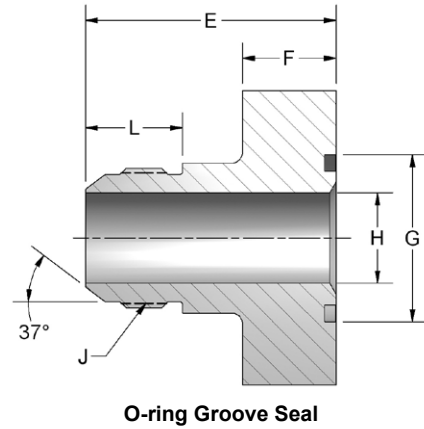
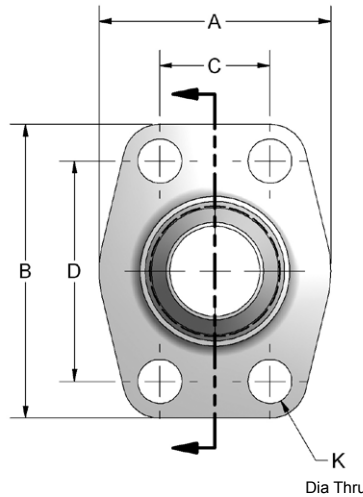
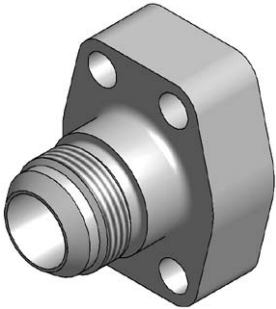
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

JIC Male Thread



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	JIC Size	Thread Type	Mounting							
	<table border="1"> <thead> <tr> <th colspan="2">Flange Size</th> </tr> <tr> <td colspan="2">Rating code 1 or 2</td> </tr> <tr> <td>08</td> <td>0.50"</td> </tr> <tr> <td>12</td> <td>0.75"</td> </tr> <tr> <td>16</td> <td>1.00"</td> </tr> <tr> <td>20</td> <td>1.25"</td> </tr> <tr> <td>24</td> <td>1.50"</td> </tr> </thead></table>	Flange Size		Rating code 1 or 2		08	0.50"	12	0.75"	16	1.00"	20	1.25"	24	1.50"
Flange Size															
Rating code 1 or 2															
08	0.50"														
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 | Material | | |----------|--------------| | C | Carbon Steel | | | Product Type | | |--------------|-------------| | M | Male Thread | | | Seal | | |------|---------------| | G | O-ring Groove | | | Rating Code | | |-------------|---| | 1 | Code 61 • SAE J518
3.5 - 35 MPa • ISO 6162-1 | | 2 | Code 62 • SAE J518
40 MPa • ISO 6162-2 | | | JIC Size | | |--|-------| | Not all JIC sizes are available for each flange size. See chart next page. | | | 08 | 0.50" | | 12 | 0.75" | | 16 | 1.00" | | 20 | 1.25" | | 24 | 1.50" | | | Thread Type | | |-------------|-------------------| | J | JIC
ISO 8434-2 | | | Mounting | | |----------|--| | U | UNC mounting kit | | M | Metric mounting kit | | X | No kit included
UNC mounting holes | | Y | No kit included
Metric mounting holes | |

JIC Male Thread

CODE 61 MALE JIC															
FLANGE SIZE	A	B	C	D	E	F	G	H	J JIC	K DIA THRU		L	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y		O-RING	Mounting U	Mounting M
0.50	1.81	2.13	.688	1.500	1.75	.88	1.000	.394	0.750-16	.344	8.5mm	.657	210	0.313-18x1.25	M8-1.25x30
0.75	1.97	2.56	.875	1.875	2.12	.88	1.250	.611	1.062-12	.413	10.5mm	.864	214	0.375-16x1.50	M10-1.5x40
1.00	2.17	2.75	1.031	2.062	2.18	.88	1.560	.844	1.312-12	.413	10.5mm	.911	219	0.375-16x1.50	M10-1.5x40
1.25	2.68	3.12	1.188	2.312	2.44	.88	1.750	1.078	1.625-12	.469	10.5mm	.958	222	0.438-14x1.75	M10-1.5x45
1.50	3.07	3.66	1.406	2.750	2.81	.98	2.115	1.318	1.875-12	.531	12.5mm	1.083	225	0.500-13x1.75	M12-1.75x45

CODE 62 MALE JIC															
FLANGE SIZE	A	B	C	D	E	F	G	H	J JIC	K DIA THRU		L	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y		O-RING	Mounting U	Mounting M
0.50	1.81	2.21	.719	1.594	1.75	.88	1.000	.394	0.750-16	.344	8.5mm	.657	210	0.313-18x1.25	M8-1.25x30
0.75	2.17	2.80	.937	2.000	2.31	.88	1.250	.611	1.062-12	.413	10.5mm	.864	214	0.375-16x1.50	M10-1.5x40
1.00	2.56	3.19	1.093	2.250	2.62	.98	1.560	.844	1.312-12	.492	12.5mm	.911	219	0.438-14x1.75	M12-1.75x45
1.25	3.07	3.75	1.250	2.625	2.81	1.06	1.750	1.078	1.625-12	.531	12.5mm	.958	222	0.500-13x1.75	M12-1.75x45
1.50	3.70	4.41	1.437	3.125	3.25	1.18	2.115	1.318	1.875-12	.656	16.5mm	1.083	225	0.625-11x2.25	M16-2.0x55

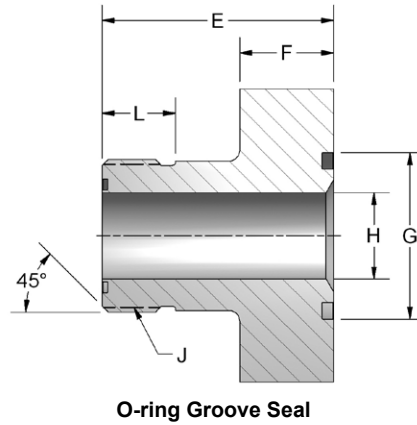
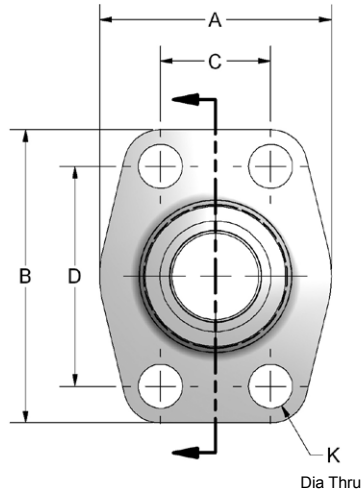
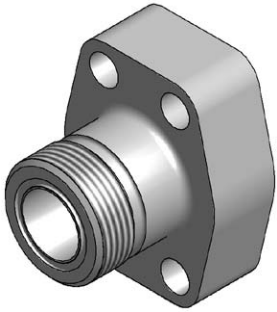
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

ORFS Male Thread



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	ORFS Size	Thread Type	Mounting							
	<table border="1"> <thead> <tr> <th colspan="2">Flange Size</th> </tr> <tr> <td colspan="2">Rating code 1 or 2</td> </tr> <tr> <td>08</td> <td>0.50"</td> </tr> <tr> <td>12</td> <td>0.75"</td> </tr> <tr> <td>16</td> <td>1.00"</td> </tr> <tr> <td>20</td> <td>1.25"</td> </tr> <tr> <td>24</td> <td>1.50"</td> </tr> </thead></table>	Flange Size		Rating code 1 or 2		08	0.50"	12	0.75"	16	1.00"	20	1.25"	24	1.50"
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 | Material | | |----------|--------------| | C | Carbon Steel | | | Product Type | | |--------------|-------------| | M | Male Thread | | | Seal | | |------|---------------| | G | O-ring Groove | | | Rating Code | | |-------------|---| | 1 | Code 61 • SAE J518
3.5 - 35 MPa • ISO 6162-1 | | 2 | Code 62 • SAE J518
40 MPa • ISO 6162-2 | | | ORFS Size | | |---|-------| | Not all ORFS sizes are available for each flange size. See chart next page. | | | 08 | 0.50" | | 12 | 0.75" | | 16 | 1.00" | | 20 | 1.25" | | 24 | 1.50" | | | Thread Type | | |-------------|--------------------| | R | ORFS
ISO 8434-3 | | | Mounting | | |----------|--| | U | UNC mounting kit | | M | Metric mounting kit | | X | No kit included
UNC mounting holes | | Y | No kit included
Metric mounting holes | |

ORFS Male Thread

CODE 61 MALE ORFS															
FLANGE SIZE	A	B	C	D	E	F	G	H	J ORFS	K DIA THRU		L	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y		O-RING	Mounting U	Mounting M
0.50	1.81	2.13	.688	1.500	1.75	.88	1.000	.394	0.812-16	.344	8.5mm	.504	210	0.313-18x1.25	M8-1.25x30
0.75	1.97	2.56	.875	1.875	2.00	.88	1.250	.611	1.188-12	.413	10.5mm	.670	214	0.375-16x1.50	M10-1.5x40
1.00	2.17	2.75	1.031	2.062	2.00	.88	1.560	.811	1.438-12	.413	10.5mm	.689	219	0.375-16x1.50	M10-1.5x40
1.25	2.68	3.12	1.188	2.312	2.25	.88	1.750	1.024	1.688-12	.469	10.5mm	.689	222	0.438-14x1.75	M10-1.5x45
1.50	3.07	3.66	1.406	2.750	2.50	.98	2.115	1.260	2.000-12	.531	12.5mm	.689	225	0.500-13x2.00	M12-1.75x45

CODE 62 MALE ORFS															
FLANGE SIZE	A	B	C	D	E	F	G	H	J ORFS	K DIA THRU		L	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y		O-RING	Mounting U	Mounting M
0.50	1.81	2.21	.719	1.594	1.75	.88	1.000	.394	0.812-16	.344	8.5mm	.504	210	0.313-18x1.25	M8-1.25x30
0.75	2.17	2.80	.937	2.000	2.25	.88	1.250	.611	1.188-12	.413	10.5mm	.670	214	0.375-16x1.50	M10-1.5x40
1.00	2.56	3.19	1.093	2.250	2.50	.98	1.560	.811	1.438-12	.492	12.5mm	.689	219	0.438-14x1.75	M12-1.75x45
1.25	3.07	3.75	1.250	2.625	2.62	1.06	1.750	1.024	1.688-12	.531	12.5mm	.689	222	0.500-13x1.75	M12-1.75x45
1.50	3.70	4.41	1.437	3.125	2.88	1.18	2.115	1.260	2.000-12	.656	16.5mm	.689	225	0.625-11x2.25	M16-2.0x55

Pressure Ratings and Fastener Torque Values

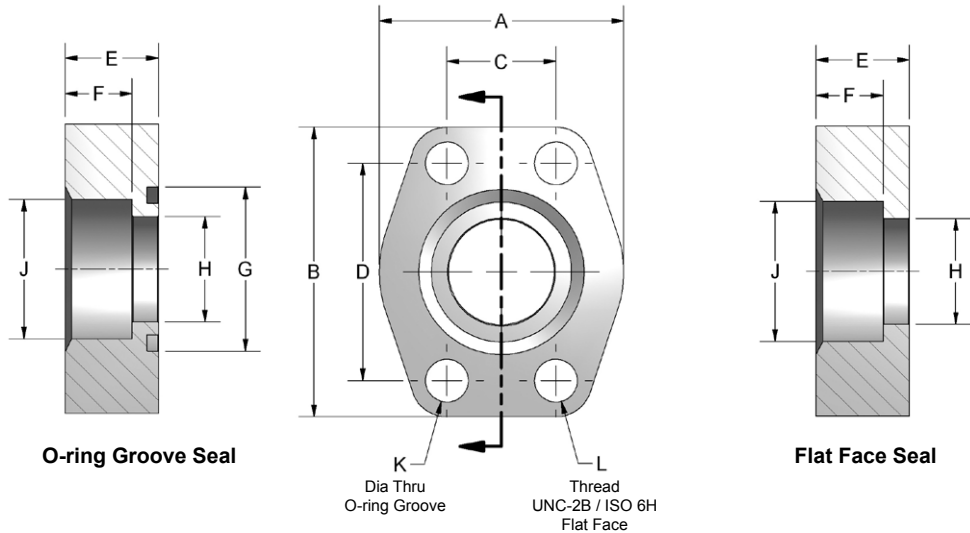
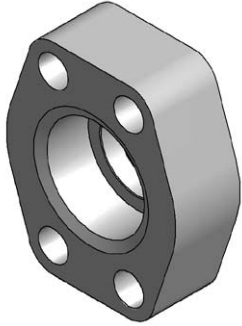
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Flat Socket Weld Pipe

Carbon Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Size	Port Type	Mounting																																																																																																
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Flat Socket Weld Pipe

Carbon Steel

CODE 61 FLAT SOCKET WELD - PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.813	2.125	.688	1.500	.750	.560	1.000	.502	.855	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.50	M8-1.25x40
0.75	0.75	2.063	2.563	.875	1.875	.750	.560	1.250	.752	1.062	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.313	2.750	1.031	2.063	.880	.630	1.560	1.002	1.328	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.75	M10-1.5x45
1.25	1.25	2.875	3.125	1.188	2.313	.940	.690	1.750	1.252	1.672	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.250	3.688	1.406	2.75	1.190	.750	2.115	1.502	1.922	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x2.25	M12-1.75x55
2.00	2.00	3.813	4.000	1.688	3.063	1.380	.875	2.490	2.002	2.406	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x2.50	M12-1.75x65
2.50	2.50	4.281	4.500	2.000	3.500	1.750	1.00	2.995	2.502	2.906	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x2.75	M12-1.75x70
3.00	3.00	5.156	5.313	2.438	4.188	2.120	1.250	3.615	3.002	3.547	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x3.50	M16-2.0x90
3.00*	3.00	5.12	5.313	2.438	4.188	1.380	1.120	3.615	3.002	3.547	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x2.50	M16-2.0x65
3.50	3.50	5.500	6.000	2.750	4.750	1.440	1.190	4.095	3.502	4.047	.656	16.5mm	0.625-11	M16-2.0	241	0.625-11x2.75	M16-2.0x70
4.00	4.00	6.000	6.375	3.062	5.125	1.500	1.250	4.595	4.002	4.578	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.75	M16-2.0x70
5.00	5.00	7.12	7.250	3.625	6.000	1.750	1.380	5.595	5.002	5.641	.656	16.5mm	0.625-11	M16-2.0	253	0.625-11x3.00	M16-2.0x75

*Use Rating Code 5 to order this flange.

CODE 62 FLAT SOCKET WELD - PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.94	2.30	.718	1.594	1.25	.560	1.000	.502	.855	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x2.00	M8-1.25x40
0.75	0.75	2.50	2.95	.937	2.000	1.250	.560	1.250	.752	1.062	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x40
1.00	1.00	2.75	3.19	1.093	2.250	1.500	.630	1.560	1.002	1.328	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x45
1.25	1.25	3.06	3.75	1.250	2.625	1.500	.690	1.750	1.252	1.672	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x2.50	M12-1.75x45
1.50	1.50	3.75	4.44	1.437	3.125	1.750	.750	2.115	1.502	1.922	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.00	M16-2.0x55
2.00	2.00	4.50	5.25	1.750	3.812	1.750	.875	2.490	2.002	2.406	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x3.00	M20-2.5x65
2.50*	2.50	5.87	6.87	2.312	4.875	2.060	1.000	2.995	2.502	2.906	.906	25.0mm	0.875-9	M24-3.0	232	0.875-9x3.50**	M24-3.0x70**
3.00*	3.00	7.00	8.50	2.812	6.000	2.620	1.250	3.615	3.002	3.547	1.190	31.0mm	1.125-7	M30-3.5	237	1.125-7x4.50**	M30-3.5x90**

*3000 PSI max. working pressure for 2.50" and 3.00" flange.

**HHCS

Pressure Ratings and Fastener Torque Values

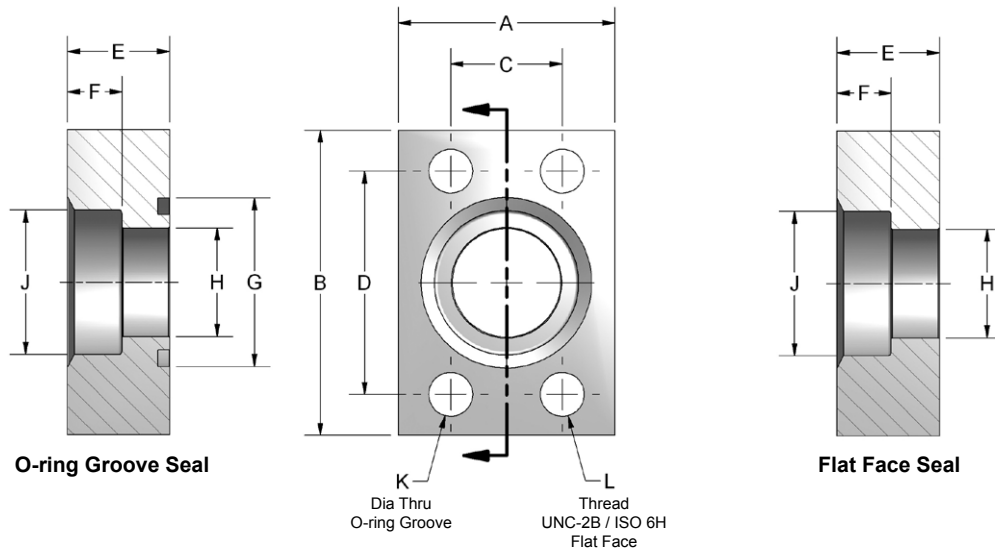
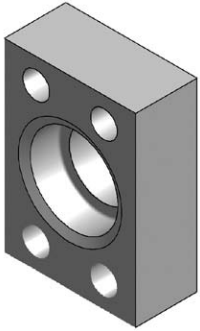
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Flat Socket Weld Pipe

Stainless Steel



Ordering Information

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Flat Socket Weld Pipe

Stainless Steel

CODE 61 FLAT SOCKET WELD - PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.50	2.12	.688	1.500	.69	.38	1.000	.502	.860	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.75	2.62	.875	1.875	.94	.50	1.250	.752	1.070	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.75	M10-1.5x45
1.00	1.00	2.00	2.82	1.031	2.062	.94	.50	1.560	1.002	1.335	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.75	M10-1.5x45
1.25	1.25	2.50	3.19	1.188	2.312	.94	.50	1.750	1.252	1.680	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	2.75	3.75	1.406	2.750	1.19	.50	2.115	1.502	1.920	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x2.25	M12-1.75x55
2.00	2.00	3.25	4.00	1.688	3.062	1.44	.62	2.490	2.002	2.411	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x2.50	M12-1.75x65
2.50	2.50	4.00	4.50	2.000	3.500	1.69	.75	2.995	2.502	2.911	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x2.75	M12-1.75x70
3.00	3.00	4.50	5.31	2.438	4.188	2.12	1.24	3.615	3.002	3.540	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x3.50	M16-2.0x90
3.00*	3.00	4.50	5.31	2.438	4.188	1.38	1.13	3.615	3.002	3.540	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x2.50	M16-2.0x65
3.50	3.50	5.00	6.00	2.750	4.750	1.44	1.19	4.095	3.502	4.054	.656	16.5mm	0.625-11	M16-2.0	241	0.625-11x2.50	M16-2.0x65
4.00	4.00	5.50	6.38	3.062	5.125	1.45	1.20	4.595	4.002	4.550	.656	16.5mm	0.625-11	M16-2.0	245	0.625-11x2.50	M16-2.0x65

*Use Rating Code 5 to order this flange.

CODE 62 FLAT SOCKET WELD - PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.50	0.50	1.75	2.22	.718	1.594	.940	.50	1.000	.502	.860	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18x1.50	M8-1.25x30
0.75	0.75	2.00	2.81	.937	2.000	.940	.50	1.250	.752	1.070	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.75	M10-1.5x45
1.00	1.00	2.25	3.19	1.093	2.250	.940	.50	1.560	1.002	1.335	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	2.75	3.75	1.250	2.625	1.19	.50	1.750	1.252	1.672	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x2.25	M12-1.75x55
1.50	1.50	3.25	4.50	1.437	3.125	1.44	.50	2.115	1.502	1.920	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x2.75	M16-2.0x70
2.00	2.00	4.00	5.25	1.750	3.812	1.69	.62	2.490	2.002	2.411	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x3.00	M20-2.5x75
2.50	2.50	5.00	6.88	2.312	4.875	1.94	.62	2.995	2.502	2.911	.906	25.0mm	0.875-9	M24-3.0	232	0.875-9x3.50	M24-3.0x90
3.00	3.00	6.00	8.50	2.812	6.000	2.44	.62	3.615	3.002	3.540	1.190	31.0mm	1-1/8-7	M30-3.5	237	1-1/8-7x4.50	M30-3.5x110

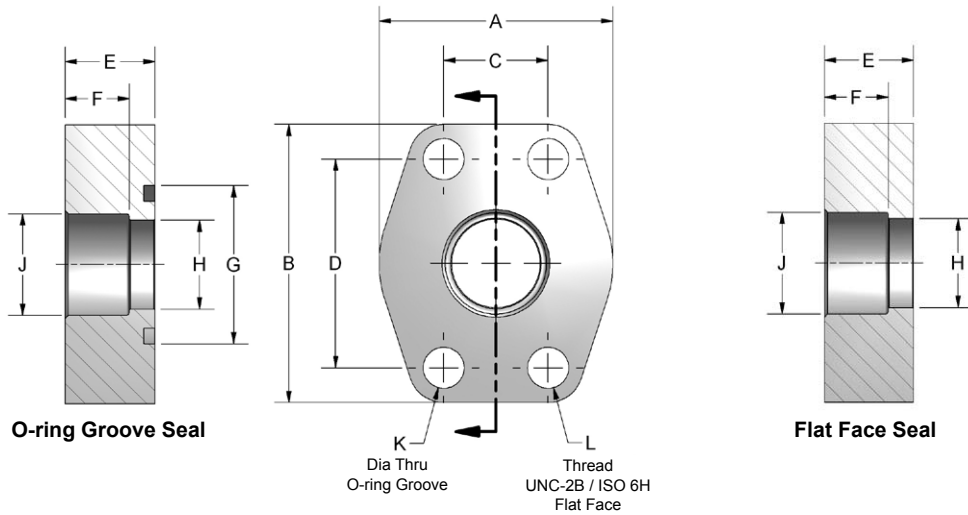
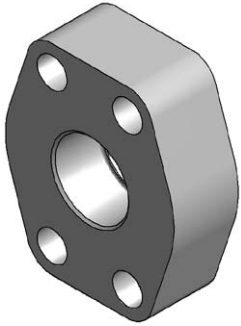
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	5000	35.0	24	32	
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CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		Grade 10.9 Metric (N-m)
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
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Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Flat Socket Weld Tube



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Flat Socket Weld Tube

CODE 61 FLAT SOCKET WELD - TUBE																	
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	0.75	2.060	2.560	.875	1.875	.750	.560	1.250	.625	.752	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
0.75	1.00	2.060	2.560	.875	1.875	.750	.560	1.250	.750	1.002	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.310	2.750	1.031	2.062	.880	.630	1.560	.875	1.002	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.75	M10-1.5x45
1.00	1.25	2.310	2.750	1.031	2.062	.880	.630	1.560	1.000	1.252	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x1.75	M10-1.5x45
1.25	1.25	2.880	3.120	1.188	2.312	.940	.690	1.750	1.125	1.252	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.25	1.50	2.880	3.120	1.188	2.312	.940	.690	1.750	1.250	1.502	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.250	3.690	1.406	2.750	1.190	.750	2.115	1.375	1.502	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x2.25	M12-1.75x55
1.50	1.75	3.250	3.690	1.406	2.750	1.190	.750	2.115	1.500	1.752	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x2.25	M12-1.75x55
2.00	2.00	3.810	4.000	1.688	3.062	1.380	.875	2.490	1.875	2.002	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x2.50	M12-1.75x65
2.00	2.25	3.810	4.000	1.688	3.062	1.380	.875	2.490	2.000	2.252	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x2.50	M12-1.75x65

CODE 62 FLAT SOCKET WELD - TUBE																	
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	0.75	2.50	2.95	.937	2.000	1.250	.560	1.250	.625	.752	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
0.75	1.00	2.50	2.95	.937	2.000	1.250	.560	1.250	.750	1.002	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	1.00	2.75	3.19	1.093	2.250	1.500	.630	1.560	.875	1.002	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.00	1.25	2.75	3.19	1.093	2.250	1.500	.630	1.560	1.000	1.252	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.25	1.25	3.06	3.75	1.250	2.625	1.500	.690	1.750	1.125	1.252	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x2.50	M12-1.75x65
1.25	1.50	3.06	3.75	1.250	2.625	1.500	.690	1.750	1.250	1.502	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x2.50	M12-1.75x65
1.50	1.50	3.75	4.44	1.437	3.125	1.750	.750	2.115	1.375	1.502	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.00	M16-2.0x75
1.50	1.75	3.75	4.44	1.437	3.125	1.750	.750	2.115	1.500	1.752	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.00	M16-2.0x75
2.00	2.00	4.50	5.25	1.750	3.812	1.750	.875	2.490	1.875	2.002	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x3.00	M20-2.5x75
2.00	2.25	4.50	5.25	1.750	3.812	1.750	.875	2.490	2.000	2.252	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x3.00	M20-2.5x75

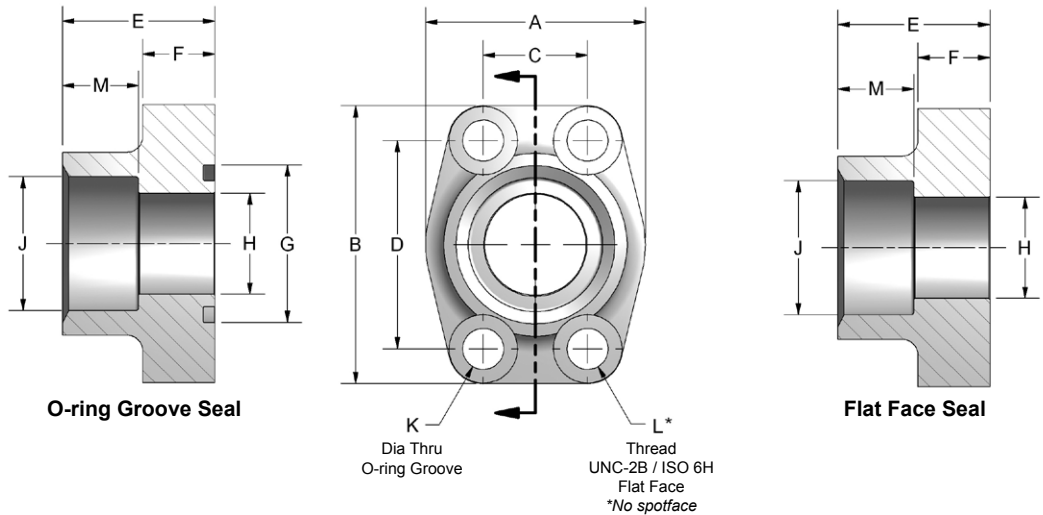
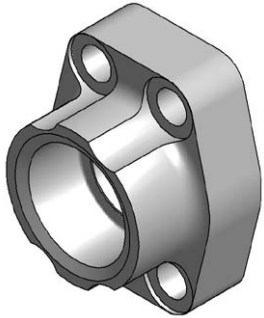
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Deep Socket Weld Pipe



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Size	Port Type	Mounting																																																																																
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Deep Socket Weld Pipe

CODE 61 DEEP SOCKET WELD - PIPE																		
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	.855	.344	8.5mm	0.313-18	M8-1.25	.75	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	1.062	.406	10.5mm	0.375-16	M10-1.5	.75	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1.328	.406	10.5mm	0.375-16	M10-1.5	.75	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1.672	.469	10.5mm	0.438-14	M10-1.5	.87	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1.922	.531	12.5mm	0.500-13	M12-1.75	.94	225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2.406	.531	12.5mm	0.500-13	M12-1.75	1.02	228	0.500-13x1.75	M12-1.75x45
2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.502	2.908	.531	12.5mm	0.500-13	M12-1.75	1.18	232	0.500-13x1.75	M12-1.75x45
3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	3.002	3.547	.656	16.5mm	0.625-11	M16-2.0	1.34	237	0.625-11x2.00	M16-2.0x50

CODE 62 DEEP SOCKET WELD - PIPE																		
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	.855	.344	8.5mm	0.313-18	M8-1.25	.75	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	1.062	.406	10.5mm	0.375-16	M10-1.5	.87	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1.328	.492	12.5mm	0.438-14	M12-1.75	.87	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	3.07	3.75	1.250	2.625	1.77	1.06	1.750	1.252	1.672	.531	12.5mm	0.500-13	M12-1.75	.98	222	0.500-13x1.75	M12-1.75x45
1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1.922	.656	16.5mm	0.625-11	M16-2.0	1.10	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2.406	.781	21.0mm	0.750-10	M20-2.5	.94	228	0.750-10x2.75	M20-2.5x65

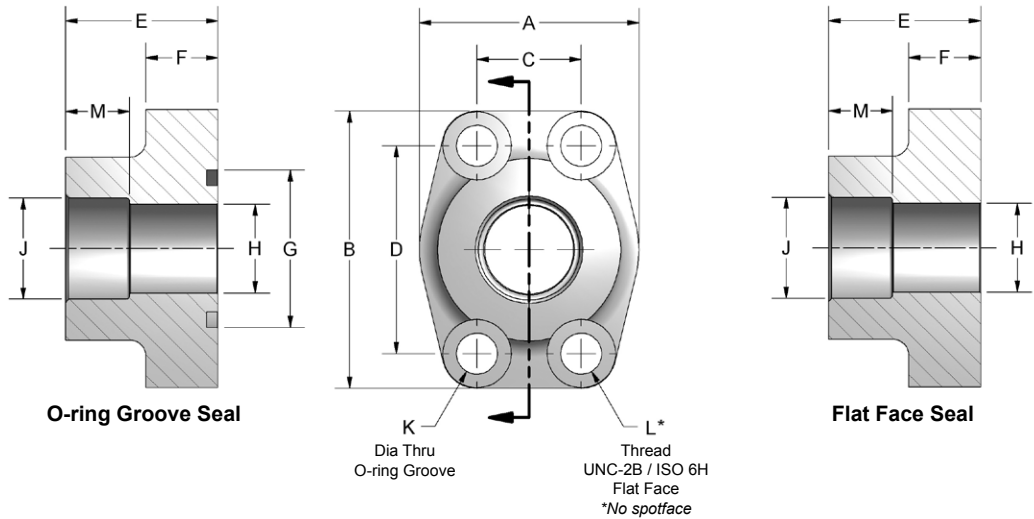
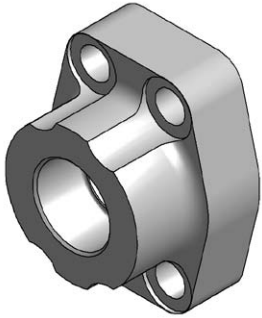
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Deep Socket Weld Tube



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Tube Size	Port Type	Mounting																																																																								
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Deep Socket Weld Tube

CODE 61 DEEP SOCKET WELD - TUBE																		
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.625	.752	.406	10.5mm	0.375-16	M10-1.5	.560	214	0.375-16x1.50	M10-1.5x40
0.75	1.00	1.97	2.56	.875	1.875	1.42	.71	1.250	.750	1.002	.406	10.5mm	0.375-16	M10-1.5	.560	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.875	1.002	.406	10.5mm	0.375-16	M10-1.5	.630	219	0.375-16x1.50	M10-1.5x40
1.00	1.25	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.000	1.252	.406	10.5mm	0.375-16	M10-1.5	.630	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.125	1.252	.469	10.5mm	0.438-14	M10-1.5	.690	222	0.438-14x1.75	M10-1.5x45
1.25	1.50	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.250	1.502	.469	10.5mm	0.438-14	M10-1.5	.690	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.375	1.502	.531	12.5mm	0.500-13	M12-1.75	.750	225	0.500-13x1.75	M12-1.75x45
1.50	1.75	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.500	1.752	.531	12.5mm	0.500-13	M12-1.75	.750	225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.875	2.002	.531	12.5mm	0.500-13	M12-1.75	.870	228	0.500-13x1.75	M12-1.75x45
2.00	2.25	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.000	2.252	.531	12.5mm	0.500-13	M12-1.75	.870	228	0.500-13x1.75	M12-1.75x45
2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.375	2.502	.531	12.5mm	0.500-13	M12-1.75	1.000	232	0.500-13x1.75	M12-1.75x45
2.50	2.75	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.500	2.752	.531	12.5mm	0.500-13	M12-1.75	1.000	232	0.500-13x1.75	M12-1.75x45

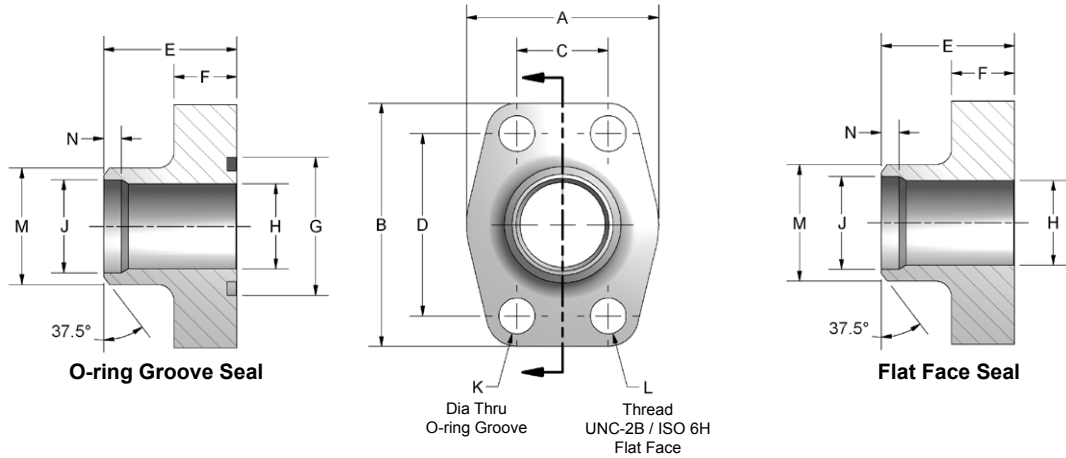
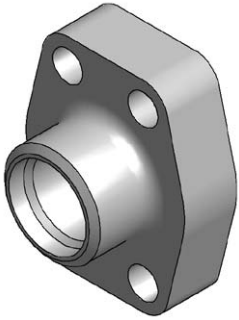
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Butt Weld Pipe - Code 61

Carbon Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Rating	Mounting																																																										
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Butt Weld Pipe - Code 61

Carbon Steel

CODE 61 BUTT WELD - SCHEDULE 40 PIPE																			
PIPE SIZE	FLANGE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.548	.624	.344	8.5mm	0.313-18	M8-1.25	.840	.20	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.744	.846	.406	10.5mm	0.375-16	M10-1.5	1.050	.20	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.959	1.051	.406	10.5mm	0.375-16	M10-1.5	1.315	.20	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.280	1.382	.469	10.5mm	0.438-14	M10-1.5	1.660	.20	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.73	.98	2.115	1.502	1.612	.531	12.5mm	0.500-13	M12-1.75	1.900	.20	225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.941	2.069	.531	12.5mm	0.500-13	M12-1.75	2.375	.20	228	0.500-13x1.75	M12-1.75x45
2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.325	2.471	.531	12.5mm	0.500-13	M12-1.75	2.875	.20	232	0.500-13x1.75	M12-1.75x45
3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	2.902	3.070	.656	16.5mm	0.625-11	M16-2.0	3.500	.20	237	0.625-11x2.00	M16-2.0x50

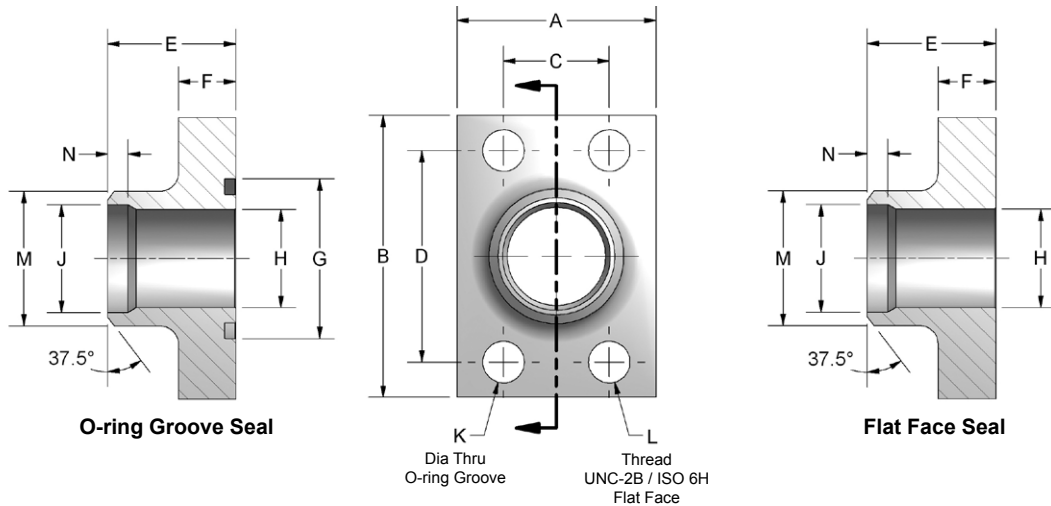
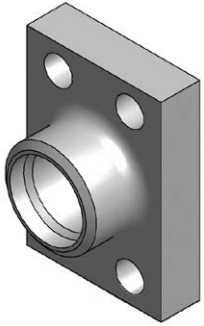
CODE 61 BUTT WELD - SCHEDULE 80 PIPE																			
PIPE SIZE	FLANGE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.548	SCHEDULE 40 ONLY	.344	8.5mm	0.313-18	M8-1.25	.840	SCHEDULE 40 ONLY	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.744		.406	10.5mm	0.375-16	M10-1.5	1.050		214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.959		.406	10.5mm	0.375-16	M10-1.5	1.315		219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.280		.469	10.5mm	0.438-14	M10-1.5	1.660		222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.73	.98	2.115	1.502		.531	12.5mm	0.500-13	M12-1.75	1.900		225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.941		.531	12.5mm	0.500-13	M12-1.75	2.375		228	0.500-13x1.75	M12-1.75x45
2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.325		.531	12.5mm	0.500-13	M12-1.75	2.875		232	0.500-13x1.75	M12-1.75x45
3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	2.902		.656	16.5mm	0.625-11	M16-2.0	3.500		237	0.625-11x2.00	M16-2.0x50

CODE 61 BUTT WELD - SCHEDULE 160 PIPE																			
PIPE SIZE	FLANGE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.466	SCHEDULE 40 ONLY	.344	8.5mm	0.313-18	M8-1.25	.840	SCHEDULE 40 ONLY	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.614		.406	10.5mm	0.375-16	M10-1.5	1.050		214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.817		.406	10.5mm	0.375-16	M10-1.5	1.315		219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.162		.469	10.5mm	0.438-14	M10-1.5	1.660		222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.73	.98	2.115	1.340		.531	12.5mm	0.500-13	M12-1.75	1.900		225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.689		.531	12.5mm	0.500-13	M12-1.75	2.375		228	0.500-13x1.75	M12-1.75x45
2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.127		.531	12.5mm	0.500-13	M12-1.75	2.875		232	0.500-13x1.75	M12-1.75x45
3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	2.626		.656	16.5mm	0.625-11	M16-2.0	3.500		237	0.625-11x2.00	M16-2.0x50

For standard pressure ratings, see page 3.

Butt Weld Pipe - Code 61

Stainless Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Rating	Mounting																																																										
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Butt Weld Pipe - Code 61

Stainless Steel

CODE 61 BUTT WELD - SCHEDULE 40 PIPE																			
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.50	0.50	1.47	2.09	.688	1.500	1.06	.50	1.000	.548	.624	.344	8.5mm	0.313-18	M8-1.25	.840	.20	210	0.313-18X1.25	M8-1.25x30
0.75	0.75	1.69	2.56	.875	1.875	1.06	.50	1.250	.744	.826	.406	10.5mm	0.375-16	M10-1.5	1.050	.20	214	0.375-16X1.25	M10-1.5x30
1.00	1.00	1.94	2.75	1.031	2.062	1.25	.56	1.560	.959	1.051	.406	10.5mm	0.375-16	M10-1.5	1.315	.20	219	0.375-16X1.25	M10-1.5x30
1.25	1.25	2.19	3.12	1.188	2.312	1.44	.62	1.750	1.280	1.382	.469	10.5mm	0.438-14	M10-1.5	1.660	.20	222	0.438-14X1.50	M10-1.5x40
1.50	1.50	2.56	3.69	1.406	2.750	1.75	.81	2.115	1.502	1.612	.531	12.5mm	0.500-13	M12-1.75	1.900	.20	225	0.500-13X1.75	M12-1.75x45
2.00	2.00	3.06	4.00	1.688	3.062	2.00	1.06	2.490	1.941	2.069	.531	12.5mm	0.500-13	M12-1.75	2.375	.20	228	0.500-13X2.00	M12-1.75x50
2.50	2.50	3.56	4.50	2.000	3.500	2.31	1.12	2.995	2.325	2.471	.531	12.5mm	0.500-13	M12-1.75	2.875	.20	232	0.500-13X2.00	M12-1.75x50
3.00	3.00	4.19	5.31	2.438	4.188	2.75	1.62	3.615	2.902	3.070	.656	16.5mm	0.625-11	M16-2.0	3.500	.20	237	0.625-11X2.75	M16-2.0x70

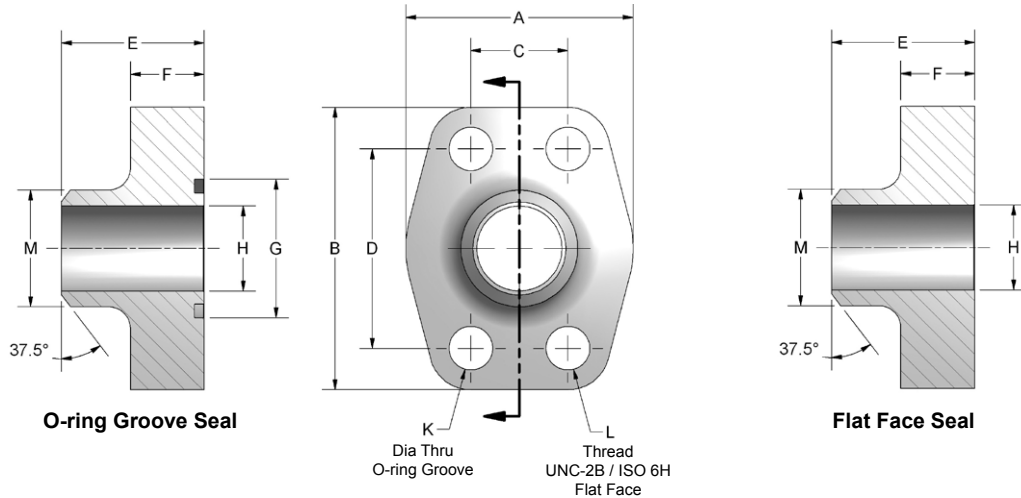
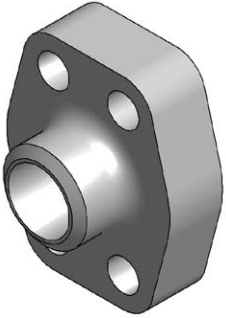
CODE 61 BUTT WELD - SCHEDULE 80 PIPE																			
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.50	0.50	1.50	2.12	.688	1.500	1.06	.50	1.000	.546	SCHEDULE 40 ONLY	.344	8.5mm	0.313-18	M8-1.25	.840	SCHEDULE 40 ONLY	210	0.313-18X1.25	M8-1.25x30
0.75	0.75	1.69	2.56	.875	1.875	1.06	.50	1.250	.752		.406	10.5mm	0.375-16	M10-1.5	1.050		214	0.375-16X1.25	M10-1.5x30
1.00	1.00	1.94	2.75	1.031	2.062	1.25	.56	1.560	.959		.406	10.5mm	0.375-16	M10-1.5	1.315		219	0.375-16X1.25	M10-1.5x30
1.25	1.25	2.19	3.12	1.188	2.312	1.44	.62	1.750	1.280		.469	10.5mm	0.438-14	M10-1.5	1.660		222	0.438-14X1.50	M10-1.5x40
1.50	1.50	2.56	3.69	1.406	2.750	1.75	.81	2.115	1.502		.531	12.5mm	0.500-13	M12-1.75	1.900		225	0.500-13X1.75	M12-1.75x45
2.00	2.00	3.06	4.00	1.688	3.062	2.00	1.06	2.490	1.941		.531	12.5mm	0.500-13	M12-1.75	2.375		228	0.500-13X2.00	M12-1.75x50
2.50	2.50	3.56	4.50	2.000	3.500	2.31	1.12	2.995	2.325		.531	12.5mm	0.500-13	M12-1.75	2.875		232	0.500-13X2.00	M12-1.75x50
3.00	3.00	4.19	5.31	2.438	4.188	2.75	1.62	3.615	2.902		.656	16.5mm	0.625-11	M16-2.0	3.500		237	0.625-11X2.75	M16-2.0x70

CODE 61 BUTT WELD - SCHEDULE 160 PIPE																			
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.50	0.50	1.50	2.12	.688	1.500	1.06	.50	1.000	.466	SCHEDULE 40 ONLY	.344	8.5mm	0.313-18	M8-1.25	.840	SCHEDULE 40 ONLY	210	0.313-18X1.25	M8-1.25x30
0.75	0.75	1.69	2.56	.875	1.875	1.06	.50	1.250	.616		.406	10.5mm	0.375-16	M10-1.5	1.050		214	0.375-16X1.25	M10-1.5x30
1.00	1.00	1.94	2.75	1.031	2.062	1.25	.56	1.560	.817		.406	10.5mm	0.375-16	M10-1.5	1.315		219	0.375-16X1.25	M10-1.5x30
1.25	1.25	2.19	3.12	1.188	2.312	1.44	.62	1.750	1.162		.469	10.5mm	0.438-14	M10-1.5	1.660		222	0.438-14X1.50	M10-1.5x40
1.50	1.50	2.56	3.69	1.406	2.750	1.75	.81	2.115	1.339		.531	12.5mm	0.500-13	M12-1.75	1.900		225	0.500-13X1.75	M12-1.75x45
2.00	2.00	3.06	4.00	1.688	3.062	2.00	1.06	2.490	1.691		.531	12.5mm	0.500-13	M12-1.75	2.375		228	0.500-13X2.00	M12-1.75x50
2.50	2.50	3.56	4.50	2.000	3.500	2.31	1.12	2.995	2.127		.531	12.5mm	0.500-13	M12-1.75	2.875		232	0.500-13X2.00	M12-1.75x50
3.00	3.00	4.19	5.31	2.438	4.188	2.75	1.62	3.615	2.626		.656	16.5mm	0.625-11	M16-2.0	3.500		237	0.625-11X2.75	M16-2.0x70

For standard pressure ratings, see page 3.

Butt Weld Pipe - Code 62

Carbon Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Rating	Mounting																																																										
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Butt Weld Pipe - Code 62

Carbon Steel

CODE 62 BUTT WELD - SCHEDULE 80 PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.548	.344	8.5mm	0.313-18	M8-1.25	.840	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.744	.406	10.5mm	0.375-16	M10-1.5	1.050	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.56	3.19	1.093	2.250	1.61	.83	1.560	.959	.492	12.5mm	0.438-14	M12-1.75	1.315	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	3.07	3.75	1.250	2.625	1.73	.98	1.750	1.280	.531	12.5mm	0.500-13	M12-1.75	1.660	222	0.500-13x1.75	M12-1.75x45
1.50	1.50	3.70	4.41	1.437	3.125	2.17	1.18	2.115	1.502	.656	16.5mm	0.625-11	M16-2.0	1.900	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	1.941	.781	21.0mm	0.750-10	M20-2.5	2.375	228	0.750-10x3.00	M20-2.5x75
2.50*	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.995	2.325	.940	25.0mm	0.875-9	M24-3.0	2.875	232	0.875-9x3.00	M24-3.0x75
3.00*	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.615	2.902	1.190	31.0mm	1.125-7	M30-3.5	3.500	237	1.125-7x4.00	M30-3.5x100

*2.50" and 3.00" flanges are rectangle with 3000 PSI Max working pressure.

CODE 62 BUTT WELD - SCHEDULE 160 PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.466	.344	8.5mm	0.313-18	M8-1.25	.840	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.614	.406	10.5mm	0.375-16	M10-1.5	1.050	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.56	3.19	1.093	2.250	1.61	.83	1.560	.817	.492	12.5mm	0.438-14	M12-1.75	1.315	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	3.07	3.75	1.250	2.625	1.73	.98	1.750	1.162	.531	12.5mm	0.500-13	M12-1.75	1.660	222	0.500-13x1.75	M12-1.75x45
1.50	1.50	3.70	4.41	1.437	3.125	2.17	1.18	2.115	1.340	.656	16.5mm	0.625-11	M16-2.0	1.900	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	1.689	.781	21.0mm	0.750-10	M20-2.5	2.375	228	0.750-10x3.00	M20-2.5x75
2.50*	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.995	2.127	.940	25.0mm	0.875-9	M24-3.0	2.875	232	0.875-9x3.00	M24-3.0x75
3.00*	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.615	2.626	1.190	31.0mm	1.125-7	M30-3.5	3.500	237	1.125-7x4.00	M30-3.5x100

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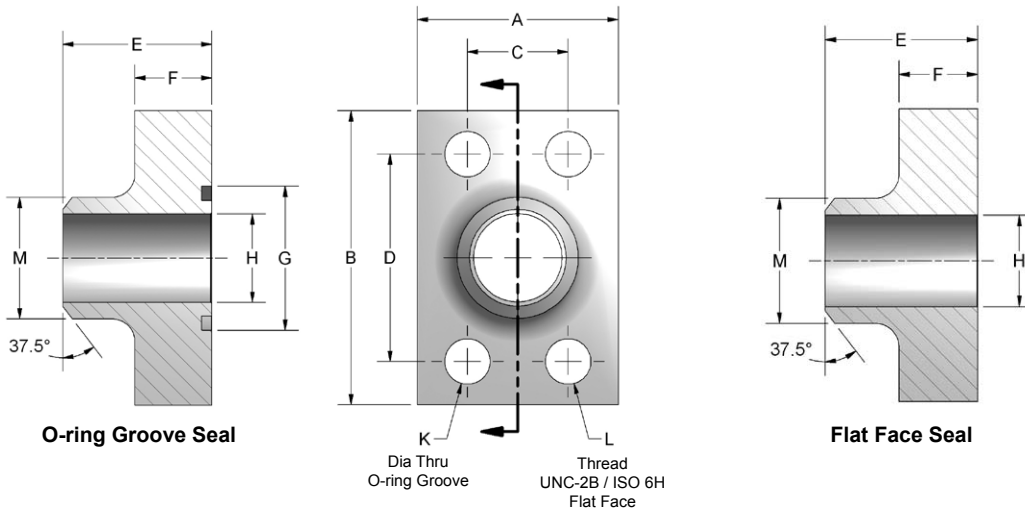
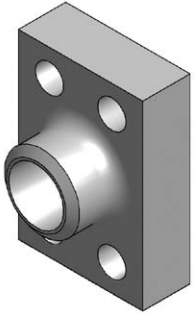
CODE 62 BUTT WELD - SCHEDULE XXS PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.50	0.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.254	.344	8.5mm	0.313-18	M8-1.25	.840	210	0.313-18x1.25	M8-1.25x30
0.75	0.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.436	.406	10.5mm	0.375-16	M10-1.5	1.050	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.56	3.19	1.093	2.250	1.61	.83	1.560	.601	.492	12.5mm	0.438-14	M12-1.75	1.315	219	0.438-14x1.75	M12-1.75x45
1.25	1.25	3.07	3.75	1.250	2.625	1.73	.98	1.750	.898	.531	12.5mm	0.500-13	M12-1.75	1.660	222	0.500-13x1.75	M12-1.75x45
1.50	1.50	3.70	4.41	1.437	3.125	2.17	1.18	2.115	1.102	.656	16.5mm	0.625-11	M16-2.0	1.900	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	1.505	.781	21.0mm	0.750-10	M20-2.5	2.375	228	0.750-10x3.00	M20-2.5x75
2.50*	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.995	1.773	.940	25.0mm	0.875-9	M24-3.0	2.875	232	0.875-9x3.00	M24-3.0x75
3.00*	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.615	2.302	1.190	31.0mm	1.125-7	M30-3.5	3.500	237	1.125-7x4.00	M30-3.5x100

*2.50" and 3.00" flanges are rectangle with 3000 PSI Max working pressure.

For standard pressure ratings, see page 3.

Butt Weld Pipe - Code 62

Stainless Steel



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Seal																																																															
G	O-ring Groove																																																														
F	Flat Face																																																														
Rating Code																																																															
2	Code 62 • SAE J518 40 MPa • ISO 6162-2																																																														
Pipe Rating																																																															
080	Schedule 80 ANSI/ASME B36.10																																																														
160	Schedule 160 ANSI/ASME B36.10																																																														
XXS	Schedule XXS ANSI/ASME B36.10																																																														
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Y	No kit included Metric mounting holes																																																														



Butt Weld Pipe - Code 62

Stainless Steel

CODE 62 BUTT WELD - SCHEDULE 80 PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.75	0.75	1.94	2.81	.937	2.000	1.42	.83	1.250	.744	.406	10.5mm	0.375-16	M10-1.5	1.050	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.18	3.19	1.093	2.250	1.61	.83	1.560	.959	.492	12.5mm	0.438-14	M12-1.75	1.315	219	0.438-14x1.50	M12-1.75x40
1.25	1.25	2.44	3.75	1.250	2.625	1.73	.94	1.750	1.280	.531	12.5mm	0.500-13	M12-1.75	1.660	222	0.500-13x2.00	M12-1.75x50
1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	2.115	1.502	.656	16.5mm	0.625-11	M16-2.0	1.900	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.490	1.941	.781	21.0mm	0.750-10	M20-2.5	2.375	228	0.750-10x3.00	M20-2.5x75
2.50*	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.995	2.325	.940	25.0mm	0.875-9	M24-3.0	2.875	232	0.875-9x3.00	M24-3.0x75
3.00*	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.615	2.902	1.190	31.0mm	1.125-7	M30-3.5	3.500	237	1.125-7x4.00	M30-3.5x100

*2.50" and 3.00" flanges have 3000 PSI Max working pressure.

CODE 62 BUTT WELD - SCHEDULE 160 PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.75	0.75	1.94	2.81	.937	2.000	1.42	.83	1.250	.616	.406	10.5mm	0.375-16	M10-1.5	1.050	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.18	3.19	1.093	2.250	1.61	.83	1.560	.817	.492	12.5mm	0.438-14	M12-1.75	1.315	219	0.438-14x1.50	M12-1.75x40
1.25	1.25	2.44	3.75	1.250	2.625	1.73	.94	1.750	1.162	.531	12.5mm	0.500-13	M12-1.75	1.660	222	0.500-13x2.00	M12-1.75x50
1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	2.115	1.339	.656	16.5mm	0.625-11	M16-2.0	1.900	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.490	1.691	.781	21.0mm	0.750-10	M20-2.5	2.375	228	0.750-10x3.00	M20-2.5x75
2.50*	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.995	2.127	.940	25.0mm	0.875-9	M24-3.0	2.875	232	0.875-9x3.00	M24-3.0x75
3.00*	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.615	2.626	1.190	31.0mm	1.125-7	M30-3.5	3.500	237	1.125-7x4.00	M30-3.5x100

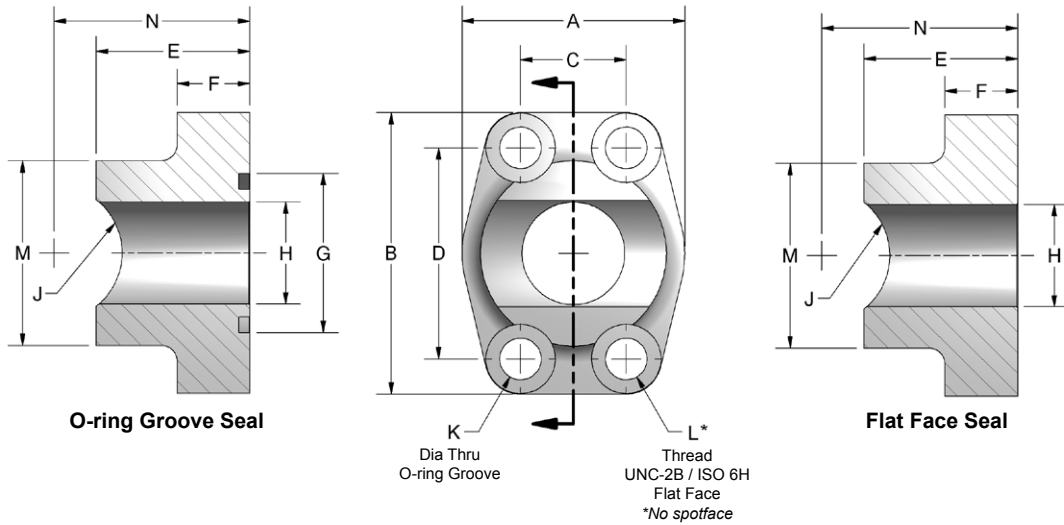
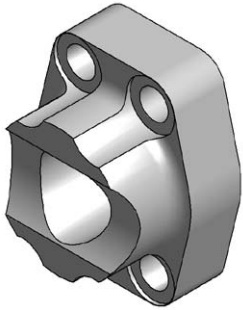
*2.50" and 3.00" flanges have 3000 PSI Max working pressure.

CODE 62 BUTT WELD - SCHEDULE XXS PIPE																	
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	K DIA THRU		L THREAD		M	MOUNTING HARDWARE SHCS		
										Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.75	0.75	1.94	2.81	.937	2.000	1.42	.83	1.250	.436	.406	10.5mm	0.375-16	M10-1.5	1.050	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.18	3.19	1.093	2.250	1.61	.83	1.560	.601	.492	12.5mm	0.438-14	M12-1.75	1.315	219	0.438-14x1.50	M12-1.75x40
1.25	1.25	2.44	3.75	1.250	2.625	1.73	.94	1.750	.898	.531	12.5mm	0.500-13	M12-1.75	1.660	222	0.500-13x2.00	M12-1.75x50
1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	2.115	1.102	.656	16.5mm	0.625-11	M16-2.0	1.900	225	0.625-11x2.25	M16-2.0x55
2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.490	1.505	.781	21.0mm	0.750-10	M20-2.5	2.375	228	0.750-10x3.00	M20-2.5x75
2.50*	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.995	1.773	.940	25.0mm	0.875-9	M24-3.0	2.875	232	0.875-9x3.00	M24-3.0x75
3.00*	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.615	2.302	1.190	31.0mm	1.125-7	M30-3.5	3.500	237	1.125-7x4.00	M30-3.5x100

*2.50" and 3.00" flanges have 3000 PSI Max working pressure.

For standard pressure ratings, see page 3.

Saddle Weld Pipe / Tube



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Weld Type	Mounting																																																								
	<table border="1"> <thead> <tr> <th colspan="2">Flange Size</th> </tr> <tr> <th colspan="2">Pipe or Tube</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>0.75"</td> </tr> <tr> <td>16</td> <td>1.00"</td> </tr> <tr> <td>20</td> <td>1.25"</td> </tr> <tr> <td>24</td> <td>1.50"</td> </tr> <tr> <td>32</td> <td>2.00"</td> </tr> <tr> <th colspan="2">Pipe Only</th> </tr> <tr> <td>40</td> <td>2.50"</td> </tr> </tbody> </table>	Flange Size		Pipe or Tube		12	0.75"	16	1.00"	20	1.25"	24	1.50"	32	2.00"	Pipe Only		40	2.50"	<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Carbon Steel</td> </tr> </tbody> </table>	Material		C	Carbon Steel	<table border="1"> <thead> <tr> <th colspan="2">Product Type</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Saddle Weld</td> </tr> </tbody> </table>	Product Type		S	Saddle Weld	<table border="1"> <thead> <tr> <th colspan="2">Seal</th> </tr> </thead> <tbody> <tr> <td>G</td> <td>O-ring Groove</td> </tr> <tr> <td>F</td> <td>Flat Face</td> </tr> </tbody> </table>	Seal		G	O-ring Groove	F	Flat Face	<table border="1"> <thead> <tr> <th colspan="2">Rating Code</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1</td> </tr> </tbody> </table>	Rating Code		1	Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1	<table border="1"> <thead> <tr> <th colspan="2">Weld Type</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Pipe Saddle Weld</td> </tr> <tr> <td>E</td> <td>Tube Saddle Weld</td> </tr> </tbody> </table>	Weld Type		P	Pipe Saddle Weld	E	Tube Saddle Weld	<table border="1"> <thead> <tr> <th colspan="2">Mounting</th> </tr> </thead> <tbody> <tr> <th colspan="2">Seal code G only</th> </tr> <tr> <td>U</td> <td>UNC mounting kit</td> </tr> <tr> <td>M</td> <td>Metric mounting kit</td> </tr> <tr> <th colspan="2">Seal code G or F</th> </tr> <tr> <td>X</td> <td>No kit included UNC mounting holes</td> </tr> <tr> <td>Y</td> <td>No kit included Metric mounting holes</td> </tr> </tbody> </table>	Mounting		Seal code G only		U	UNC mounting kit	M	Metric mounting kit	Seal code G or F		X	No kit included UNC mounting holes	Y	No kit included Metric mounting holes
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Saddle Weld Pipe / Tube

CODE 61 SADDLE WELD - PIPE																			
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	.532	.406	10.5mm	0.375-16	M10-1.5	1.54	1.775	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	.665	.406	10.5mm	0.375-16	M10-1.5	1.81	1.912	219	0.375-16x1.50	M10-1.5x40
1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	.837	.469	10.5mm	0.438-14	M10-1.5	2.22	2.146	222	0.438-14x1.75	M10-1.5x45
1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	.957	.531	12.5mm	0.500-13	M12-1.75	2.50	2.290	225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	1.200	.531	12.5mm	0.500-13	M12-1.75	3.12	2.340	228	0.500-13x1.75	M12-1.75x45
2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.502	1.451	.531	12.5mm	0.500-13	M12-1.75	3.62	2.660	232	0.500-13x1.75	M12-1.75x45

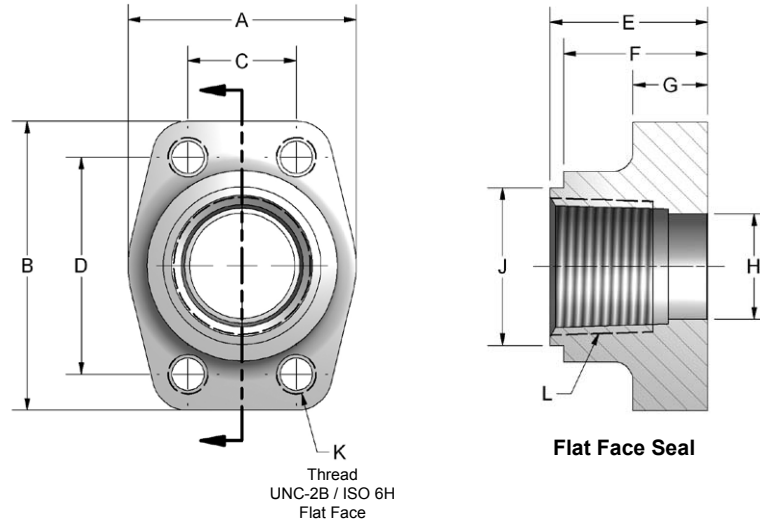
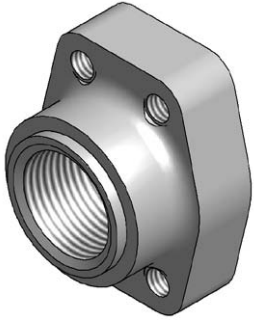
CODE 61 SADDLE WELD - TUBE																			
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H	J	K DIA THRU		L THREAD		M	N	MOUNTING HARDWARE SHCS		
											Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.75	0.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	.382	.406	10.5mm	0.375-16	M10-1.5	1.54	1.420	214	0.375-16x1.50	M10-1.5x40
0.75	1.00	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	.507	.406	10.5mm	0.375-16	M10-1.5	1.54	1.737	214	0.375-16x1.50	M10-1.5x40
1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	.507	.406	10.5mm	0.375-16	M10-1.5	1.81	1.500	219	0.375-16x1.50	M10-1.5x40
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1.50	1.75	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	.882	.531	12.5mm	0.500-13	M12-1.75	2.50	2.198	225	0.500-13x1.75	M12-1.75x45
2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.691	1.007	.531	12.5mm	0.500-13	M12-1.75	2.38	2.262	228	0.500-13x1.75	M12-1.75x45
2.00	2.25	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	1.132	.531	12.5mm	0.500-13	M12-1.75	3.12	2.247	228	0.500-13x1.75	M12-1.75x45

Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Tank Pilot with NPTF Port



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Size	Port Type	Mounting																																																																		
	<table border="1"> <thead> <tr> <th colspan="2">Flange Size</th> </tr> </thead> <tbody> <tr><td>12</td><td>0.75"</td></tr> <tr><td>16</td><td>1.00"</td></tr> <tr><td>20</td><td>1.25"</td></tr> <tr><td>24</td><td>1.50"</td></tr> <tr><td>32</td><td>2.00"</td></tr> <tr><td>40</td><td>2.50"</td></tr> <tr><td>48</td><td>3.00"</td></tr> <tr><td>56</td><td>3.50"</td></tr> <tr><td>64</td><td>4.00"</td></tr> </tbody> </table>	Flange Size		12	0.75"	16	1.00"	20	1.25"	24	1.50"	32	2.00"	40	2.50"	48	3.00"	56	3.50"	64	4.00"	<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Carbon Steel</td> </tr> </tbody> </table>	Material		C	Carbon Steel	<table border="1"> <thead> <tr> <th colspan="2">Product Type</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Tank Pilot</td> </tr> </tbody> </table>	Product Type		T	Tank Pilot	<table border="1"> <thead> <tr> <th colspan="2">Seal</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Flat Face</td> </tr> </tbody> </table>	Seal		F	Flat Face	<table border="1"> <thead> <tr> <th colspan="2">Rating Code</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1</td> </tr> </tbody> </table>	Rating Code		1	Code 61 • SAE J518 3.5 - 35 MPa • ISO 6162-1	<table border="1"> <thead> <tr> <th colspan="2">Pipe Size</th> </tr> </thead> <tbody> <tr><td>12</td><td>0.75"</td></tr> <tr><td>16</td><td>1.00"</td></tr> <tr><td>20</td><td>1.25"</td></tr> <tr><td>24</td><td>1.50"</td></tr> <tr><td>32</td><td>2.00"</td></tr> <tr><td>40</td><td>2.50"</td></tr> <tr><td>48</td><td>3.00"</td></tr> <tr><td>56</td><td>3.50"</td></tr> <tr><td>64</td><td>4.00"</td></tr> </tbody> </table> <p>Not all pipe sizes are available for each flange size. See chart next page.</p>	Pipe Size		12	0.75"	16	1.00"	20	1.25"	24	1.50"	32	2.00"	40	2.50"	48	3.00"	56	3.50"	64	4.00"	<table border="1"> <thead> <tr> <th colspan="2">Port Type</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF ANSI B1.20.3</td> </tr> </tbody> </table>	Port Type		P	NPTF ANSI B1.20.3	<table border="1"> <thead> <tr> <th colspan="2">Mounting</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>No kit included UNC mounting holes</td> </tr> <tr> <td>Y</td> <td>No kit included Metric mounting holes</td> </tr> </tbody> </table>	Mounting		X	No kit included UNC mounting holes	Y	No kit included Metric mounting holes
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Tank Pilot with NPTF Port

CODE 61 TANK PILOT WITH NPTF PORT													
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	G	H	J	K THREAD		L NPTF
											UNC-2B X	ISO 6H Y	
0.75	0.75	1.97	2.56	.875	1.875	1.42	1.30	.71	.752	1.375	0.375-16	M10-1.5	0.750-14
1.00	1.00	2.17	2.75	1.031	2.062	1.50	1.37	.71	1.002	1.500	0.375-16	M10-1.5	1.000-11.5
1.25	1.25	2.68	3.12	1.188	2.312	1.61	1.49	.83	1.252	1.750	0.438-14	M10-1.5	1.250-11.5
1.50	1.50	3.07	3.66	1.406	2.750	1.77	1.64	.98	1.502	2.125	0.500-13	M12-1.75	1.500-11.5
2.00	2.00	3.54	4.00	1.688	3.062	1.77	1.65	.98	2.002	2.500	0.500-13	M12-1.75	2.000-11.5
2.50	2.50	4.09	4.49	2.000	3.500	1.97	1.85	.98	2.502	3.250	0.500-13	M12-1.75	2.500-8
3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.85	1.06	3.002	3.625	0.625-11	M16-2.0	3.000-8
3.50	3.50	5.35	5.98	2.750	4.750	1.89	1.77	1.06	3.504	4.125	0.625-11	M16-2.0	3.500-8
4.00	4.00	5.75	6.38	3.062	5.125	1.89	1.77	1.06	3.898	4.625	0.625-11	M16-2.0	4.000-8

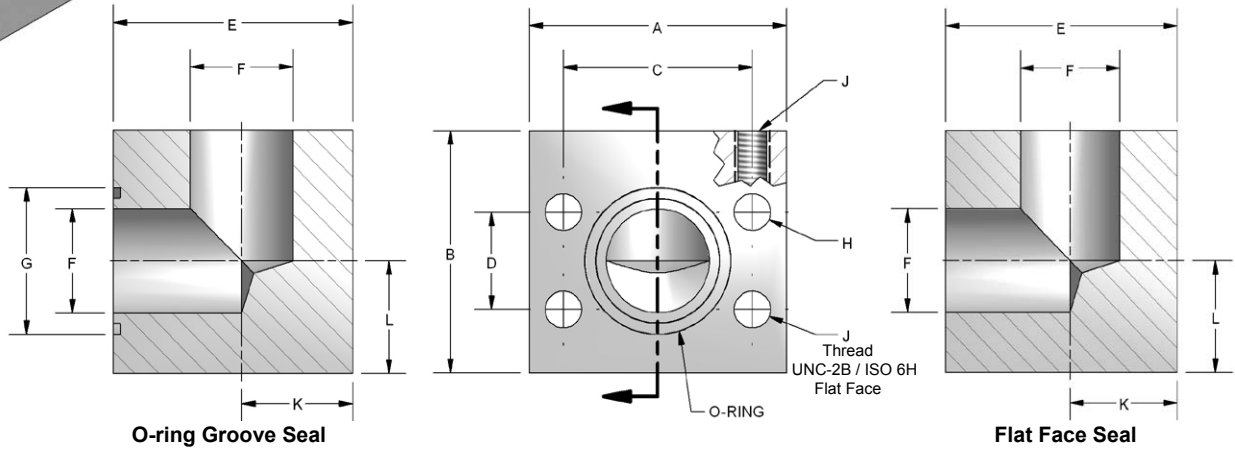
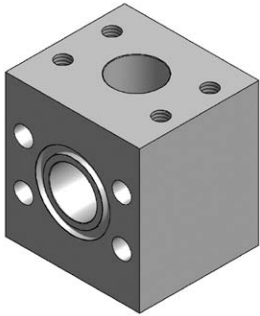
Female NPTF thread to facilitate pump suction line and return applications.

Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	5000	35.0	24	32
-12	0.75"	5000	35.0	44	70
-16	1.00"	4600	32.0	44	70
-20	1.25"	4000	28.0	68	70
-24	1.50"	3000	21.0	111	130
-32	2.00"	3000	21.0	111	130
-40	2.50"	2500	17.5	111	130
-48	3.00"	2300	16.0	218	295
-56	3.50"	500	3.5	218	295
-64	4.00"	500	3.5	218	295
-80	5.00"	500	3.5	218	295

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Elbow Junction Block



Ordering Information

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Elbow Junction Block

CODE 61 ELBOW JUNCTION BLOCK																
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								Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.75	2.62	2.50	1.875	0.875	2.25	0.75	1.250	.406	10.5mm	0.375-16	M10-1.5	1.03	1.03	214	0.375-16x3.00	M10-1.5x75
1.00	2.82	2.50	2.062	1.031	2.50	1.00	1.560	.406	10.5mm	0.375-16	M10-1.5	1.16	1.09	219	0.375-16x3.25	M10-1.5x80
1.25	3.19	3.00	2.312	1.188	3.00	1.25	1.750	.469	10.5mm	0.438-14	M10-1.5	1.44	1.31	222	0.438-14x4.00	M10-1.5x100
1.50	3.75	3.50	2.750	1.406	3.50	1.50	2.115	.531	12.5mm	0.500-13	M12-1.75	1.62	1.62	225	0.500-13x4.50	M12-1.75x110
2.00	4.00	4.00	3.062	1.688	4.00	1.94	2.490	.531	12.5mm	0.500-13	M12-1.75	1.91	1.91	228	0.500-13x5.00	M12-1.75x130

CODE 62 ELBOW JUNCTION BLOCK																
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								Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y			O-RING	Mounting U	Mounting M
0.75	2.82	2.50	2.000	.937	2.50	0.75	1.250	.406	10.5mm	0.375-16	M10-1.5	1.19	1.06	214	0.375-16x3.25	M10-1.5x80
1.00	3.19	3.00	2.250	1.093	3.00	1.00	1.560	.492	12.5mm	0.438-14	M12-1.75	1.38	1.38	219	0.438-14x4.00	M12-1.75x100
1.25	3.75	3.50	2.625	1.250	3.50	1.25	1.750	.531	12.5mm	0.500-13	M12-1.75	1.62	1.41	222	0.500-13x4.50	M12-1.75x110
1.50	4.50	4.00	3.125	1.437	4.00	1.50	2.115	.656	16.5mm	0.625-11	M16-2.0	1.88	1.75	225	0.625-11x5.00	M16-2.0x130
2.00	5.25	5.00	3.812	1.750	5.00	1.94	2.490	.781	21.0mm	0.750-10	M20-2.5	2.25	2.50	228	0.750-10x6.00	M20-2.5x150

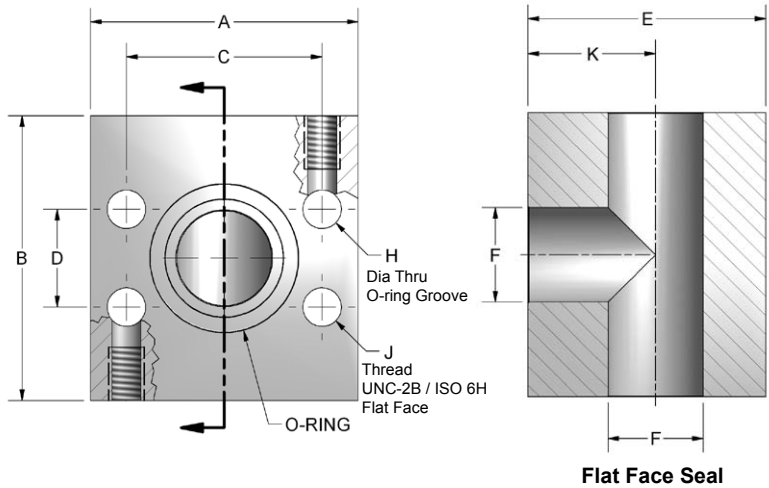
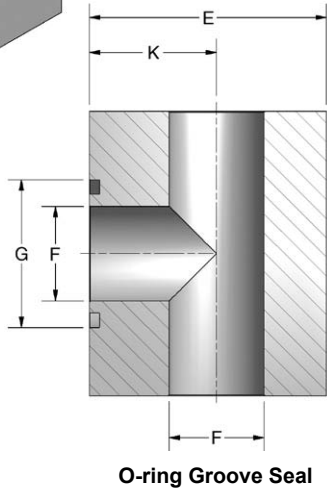
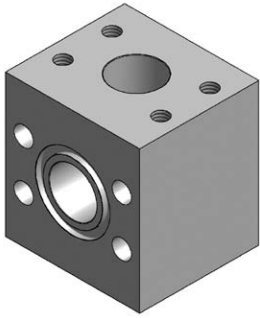
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2					
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	0.50"	6000	40.0	24	32
-12	0.75"	6000	40.0	44	70
-16	1.00"	6000	40.0	68	130
-20	1.25"	6000	40.0	111	130
-24	1.50"	6000	40.0	218	295
-32	2.00"	6000	40.0	332	550

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Tee Junction Block



Ordering Information

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Tee Junction Block

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0.75	2.62	2.75	1.875	.875	2.25	.75	1.250	.406	10.5mm	0.375-16	M10-1.5	1.22	214	0.375-16x3.00	M10-1.5x75
1.00	2.82	3.00	2.062	1.031	2.50	1.00	1.560	.406	10.5mm	0.375-16	M10-1.5	1.34	219	0.375-16x3.25	M10-1.5x80
1.25	3.19	3.50	2.312	1.188	3.00	1.25	1.750	.469	10.5mm	0.438-14	M10-1.5	1.56	222	0.438-14x4.00	M10-1.5x100
1.50	3.75	4.00	2.750	1.406	3.50	1.50	2.115	.531	12.5mm	0.500-13	M12-1.75	1.88	225	0.500-13x4.50	M12-1.75x110
2.00	4.00	4.25	3.062	1.688	4.00	2.00	2.490	.531	12.5mm	0.500-13	M12-1.75	2.09	228	0.500-13x5.00	M12-1.75x130

CODE 62 TEE JUNCTION BLOCK															
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								Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y		O-RING	Mounting U	Mounting M
0.75	2.81	3.00	2.00	.937	2.50	.75	1.250	.406	10.5mm	0.375-16	M10-1.5	1.31	214	0.375-16x3.25	M10-1.5x80
1.00	3.19	3.50	2.25	1.093	3.00	1.00	1.560	.492	12.5mm	0.438-14	M12-1.75	1.62	219	0.438-14x4.00	M12-1.75x100
1.25	3.75	4.00	2.625	1.250	3.50	1.25	1.750	.531	12.5mm	0.500-13	M12-1.75	1.88	222	0.500-13x4.50	M12-1.75x110
1.50	4.50	4.50	3.125	1.437	4.00	1.50	2.115	.656	16.5mm	0.625-11	M16-2.0	2.12	225	0.625-11x5.00	M16-2.0x130
2.00	5.25	5.00	3.812	1.750	5.00	1.94	2.490	.781	21.0mm	0.750-10	M20-2.5	2.75	228	0.750-10x6.00	M20-2.5x150

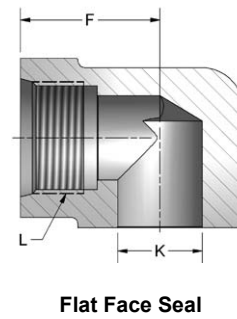
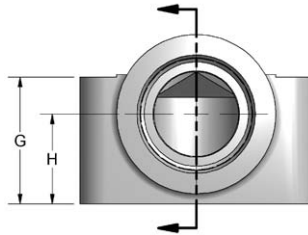
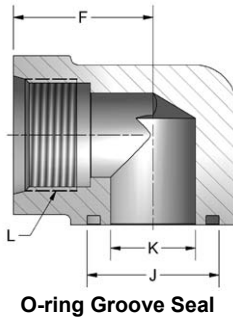
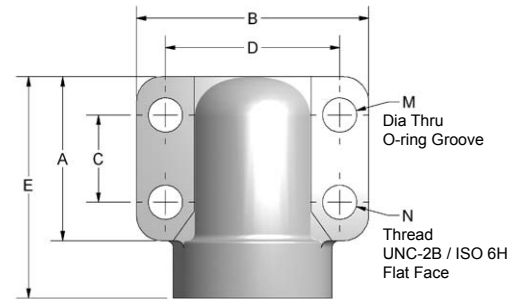
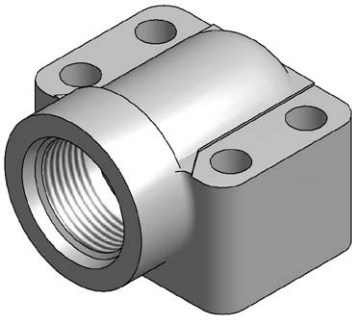
Pressure Ratings and Fastener Torque Values

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		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Threaded Elbow NPTF/SAE Port



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Port Size	Thread Type	Mounting																																																																														
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Threaded Elbow NPTF/SAE Port

CODE 61 ELBOW - NPTF PORT																		
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	L NPTF	M DIA THRU		N THREAD		MOUNTING HARDWARE SHCS		
												Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	.75	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	1.94	2.75	1.031	2.062	2.62	1.66	1.50	1.062	1.560	1.002	1.00	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x2.25	M10-1.5x55
1.25	2.19	3.12	1.188	2.312	3.00	1.91	1.81	1.188	1.750	1.252	1.25	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x2.75	M10-1.5x70
1.50	2.56	3.69	1.406	2.750	3.33	2.05	2.00	1.312	2.115	1.502	1.50	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x3.00	M12-1.75x75
2.00	3.06	4.33	1.688	3.062	3.81	2.28	2.50	1.656	2.490	2.002	2.00	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x3.50	M12-1.75x90

CODE 61 ELBOW - SAE PORT																		
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	L SAE	M DIA THRU		N THREAD		MOUNTING HARDWARE SHCS		
												Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	1.062-12	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	1.94	2.75	1.031	2.062	2.62	1.66	1.50	1.062	1.560	1.002	1.312-12	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x2.25	M10-1.5x55
1.25	2.19	3.12	1.188	2.312	3.00	1.91	1.81	1.188	1.750	1.252	1.625-12	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x2.75	M10-1.5x70
1.50	2.56	3.69	1.406	2.750	3.33	2.05	2.00	1.312	2.115	1.502	1.875-12	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x3.00	M12-1.75x75
2.00	3.06	4.33	1.688	3.062	3.81	2.28	2.50	1.656	2.490	2.002	2.500-12	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x3.50	M12-1.75x90

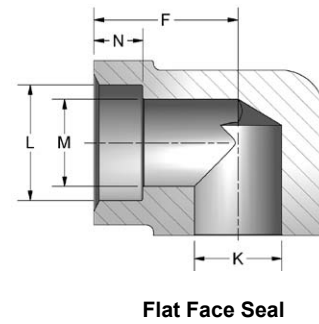
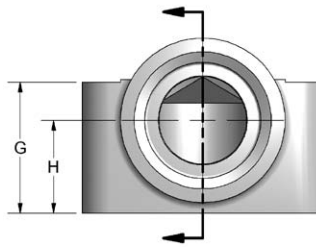
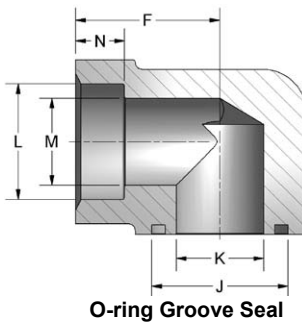
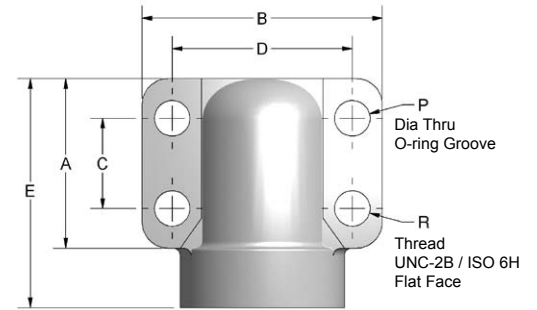
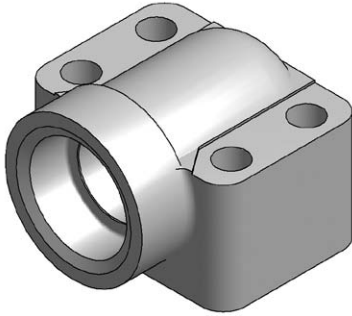
CODE 62 ELBOW - NPTF PORT																		
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	L NPTF	M DIA THRU		N THREAD		MOUNTING HARDWARE SHCS		
												Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	.75	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.25	M10-1.5x55
1.00	2.19	3.12	1.093	2.250	3.00	1.91	1.81	1.188	1.560	1.002	1.00	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.25	2.56	3.69	1.250	2.625	3.32	2.05	2.00	1.312	1.750	1.252	1.25	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x3.00	M12-1.75x75
1.50	3.06	4.33	1.437	3.125	3.81	2.28	2.50	1.656	2.115	1.502	1.50	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.50	M16-2.0x90

CODE 62 ELBOW - SAE PORT																		
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	L SAE	M DIA THRU		N THREAD		MOUNTING HARDWARE SHCS		
												Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	1.062-12	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.25	M10-1.5x55
1.00	2.19	3.12	1.093	2.250	3.00	1.91	1.81	1.188	1.560	1.002	1.312-12	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.25	2.56	3.69	1.250	2.625	3.32	2.05	2.00	1.312	1.750	1.252	1.625-12	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x3.00	M12-1.75x75
1.50	3.06	4.33	1.437	3.125	3.81	2.28	2.50	1.656	2.115	1.502	1.875-12	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.50	M16-2.0x90

For standard pressure ratings, see page 3.

Socket Weld Pipe Elbow

Carbon Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Size	Port Type	Mounting													
	<table border="1"> <thead> <tr> <th colspan="2">Flange Size</th> </tr> <tr> <td colspan="2">Rating code 1 or 2</td> </tr> <tr> <td>12</td> <td>0.75"</td> </tr> <tr> <td>16</td> <td>1.00"</td> </tr> <tr> <td>20</td> <td>1.25"</td> </tr> <tr> <td>24</td> <td>1.50"</td> </tr> <tr> <td>32</td> <td>2.00"</td> </tr> <tr> <td colspan="2">Rating code 1 only</td> </tr> <tr> <td>40</td> <td>2.50"</td> </tr> <tr> <td>48</td> <td>3.00"</td> </tr> </thead></table>	Flange Size		Rating code 1 or 2		12	0.75"	16	1.00"	20	1.25"	24	1.50"	32	2.00"	Rating code 1 only		40	2.50"	48	3.00"
Flange Size																					
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48	3.00"																				

 | Material | | |----------|--------------| | C | Carbon Steel | | | Product Type | | |--------------|-------------------| | L | Socket Weld Elbow | | | Seal | | |------|---------------| | G | O-ring Groove | | F | Flat Face | | | Rating Code | | |-------------|---| | 1 | Code 61 • SAE J518
3.5 - 35 MPa • ISO 6162-1 | | 2 | Code 62 • SAE J518
40 MPa • ISO 6162-2 | | | Pipe Size | | |---|-------| | Not all pipe sizes are available for each flange size. See chart next page. | | | 12 | 0.75" | | 16 | 1.00" | | 20 | 1.25" | | 24 | 1.50" | | 32 | 2.00" | | 40 | 2.50" | | 48 | 3.00" | | | Port Type | | |-----------|------------------| | P | Pipe Socket Weld | | | Mounting | | |------------------|--| | Seal code G only | | | U | UNC mounting kit | | M | Metric mounting kit | | Seal code G or F | | | X | No kit included
UNC mounting holes | | Y | No kit included
Metric mounting holes | |



Socket Weld Pipe Elbow

Carbon Steel

CODE 61 SOCKET WELD PIPE ELBOW																				
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P DIA THRU		R THREAD		MOUNTING HARDWARE SHCS		
														Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	1.062	.75	.56	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	1.94	2.75	1.031	2.062	2.62	1.66	1.50	1.062	1.560	1.002	1.328	1.00	.56	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x2.25	M10-1.5x55
1.25	2.19	3.12	1.188	2.312	3.00	1.91	1.81	1.188	1.750	1.252	1.672	1.25	.62	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x2.75	M10-1.5x70
1.50	2.56	3.69	1.406	2.750	3.33	2.05	2.00	1.312	2.115	1.502	1.922	1.50	.69	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x3.00	M12-1.75x75
2.00	3.06	4.33	1.688	3.062	3.81	2.28	2.50	1.656	2.490	2.002	2.406	2.00	.75	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x3.50	M12-1.75x90
2.50	3.56	5.00	2.000	3.500	4.66	2.88	2.78	1.900	2.995	2.502	2.906	2.50	.75	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13x5.00	M12-1.75x130
3.00	4.00	5.50	2.438	4.188	5.00	3.00	3.35	2.400	3.615	3.002	3.547	3.00	.75	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11x6.00	M16-2.0x150

CODE 62 SOCKET WELD PIPE ELBOW																				
FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P DIA THRU		R THREAD		MOUNTING HARDWARE SHCS		
														Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	1.062	.75	.56	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.25	M10-1.5x55
1.00	2.19	3.12	1.093	2.250	3.00	1.91	1.81	1.188	1.560	1.002	1.328	1.00	.62	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.25	2.56	3.69	1.250	2.625	3.32	2.05	2.00	1.312	1.750	1.252	1.672	1.25	.69	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x3.00	M12-1.75x75
1.50	3.06	4.33	1.437	3.125	3.81	2.28	2.50	1.656	2.115	1.502	1.922	1.50	.75	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.50	M16-2.0x90
2.00	3.56	5.00	1.750	3.812	4.66	2.88	2.69	1.900	2.490	2.002	2.406	2.00	.75	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10x4.50	M20-2.5x110

Pressure Ratings and Fastener Torque Values

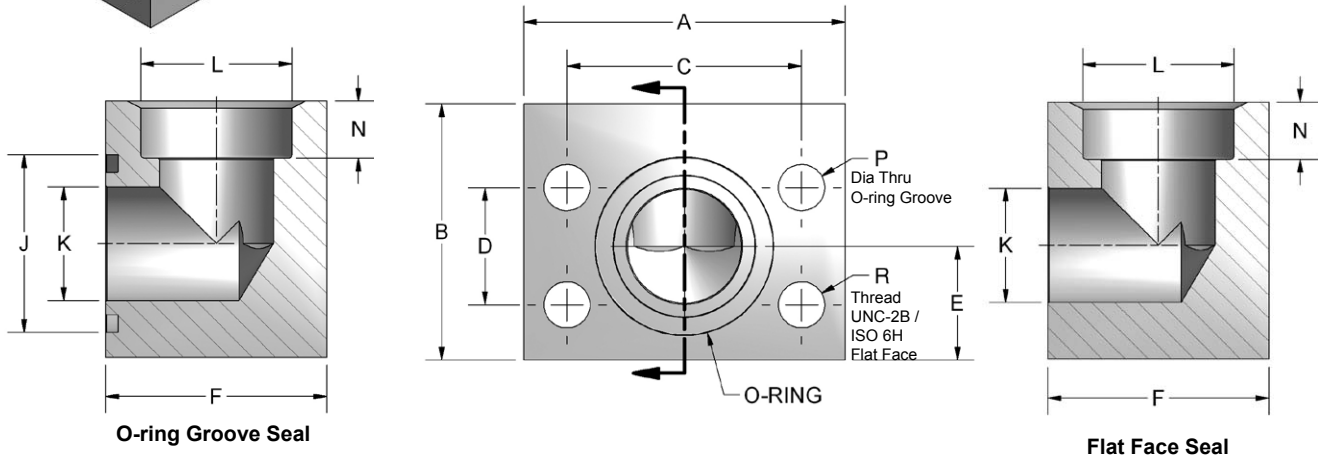
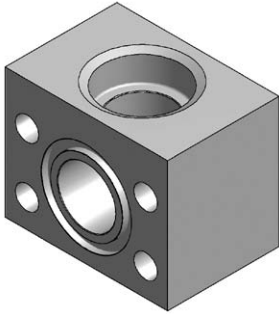
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Socket Weld Pipe Elbow

Stainless Steel



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Size	Port Type	Mounting																																																																																
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Socket Weld Pipe Elbow

Stainless Steel

CODE 61 SOCKET WELD PIPE ELBOW																		
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	J	K	L	N	P DIA THRU		R THREAD		MOUNTING HARDWARE SHCS		
												Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
.50	.50	2.12	1.75	1.500	.688	.75	1.44	1.000	.50	.855	.380	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18X2.00	M8-1.25x50
.75	.75	2.62	2.00	1.875	.875	.88	1.70	1.250	.75	1.062	.500	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16X2.50	M10-1.5x65
1.00	1.00	2.82	2.25	2.062	1.031	1.00	1.94	1.560	1.00	1.328	.500	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16X2.75	M10-1.5x70
1.25	1.25	3.19	2.75	2.312	1.188	1.25	2.40	1.750	1.25	1.672	.500	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14X3.00	M10-1.5x75
1.50	1.50	3.75	3.00	2.750	1.406	1.38	2.90	2.115	1.50	1.922	.500	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13X4.00	M12-1.75x100
2.00	2.00	4.00	3.50	3.062	1.688	1.62	3.40	2.490	2.00	2.406	.500	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13X4.50	M12-1.75x110
2.50	2.50	4.50	4.00	3.500	2.000	2.00	3.96	2.995	2.50	2.906	.500	.531	12.5mm	0.500-13	M12-1.75	232	0.500-13X5.00	M12-1.75x130
3.00	3.00	5.31	5.00	4.188	2.438	2.25	4.96	3.615	3.00	3.547	.625	.656	16.5mm	0.625-11	M16-2.0	237	0.625-11X6.00	M16-2.0x150

CODE 62 SOCKET WELD PIPE ELBOW																		
FLANGE SIZE	PIPE SIZE	A	B	C	D	E	F	J	K	L	N	P DIA THRU		R THREAD		MOUNTING HARDWARE SHCS		
												Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
.50	.50	2.22	2.00	1.594	.718	.88	1.46	1.000	.50	.860	.380	.344	8.5mm	0.313-18	M8-1.25	210	0.313-18X2.25	M8-1.25x55
.75	.75	2.81	2.25	2.000	.937	1.00	1.70	1.250	.75	1.062	.500	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16X2.50	M10-1.5x65
1.00	1.00	3.19	2.50	2.250	1.093	1.12	2.21	1.560	1.00	1.328	.500	.492	12.5mm	0.438-14	M10-1.75	219	0.438-14X3.25	M12-1.75x80
1.25	1.25	3.75	3.00	2.625	1.250	1.38	2.44	1.750	1.25	1.672	.500	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13X3.25	M12-1.75x80
1.50	1.50	4.50	3.50	3.125	1.437	1.62	2.96	2.115	1.50	1.922	.500	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11X4.25	M16-2.0x100
2.00	2.00	5.25	4.00	3.812	1.750	2.00	3.46	2.490	2.00	2.406	.500	.781	21.0mm	0.750-10	M20-2.5	228	0.750-10X5.00	M20-2.5x130

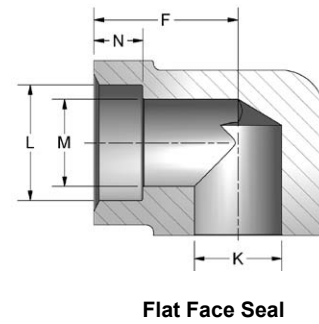
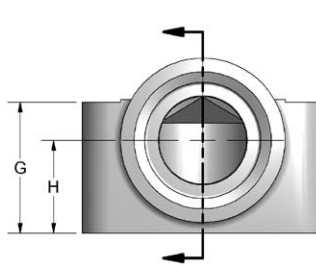
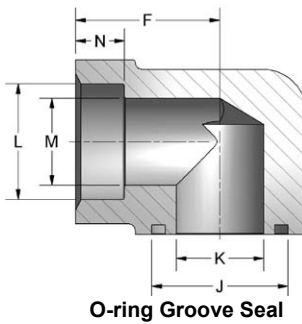
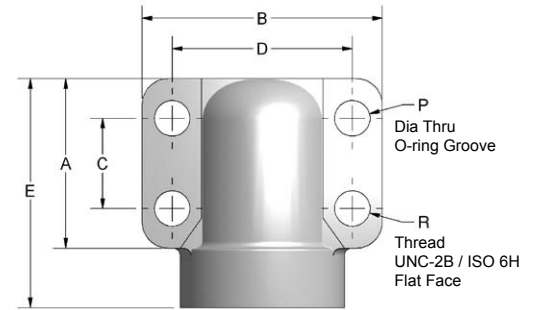
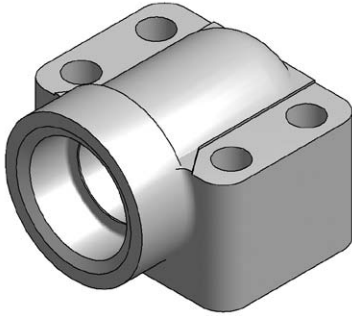
Pressure Ratings and Fastener Torque Values

CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

Socket Weld Tube Elbow



Ordering Information

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Socket Weld Tube Elbow

CODE 61 SOCKET WELD TUBE ELBOW																					
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P DIA THRU		R THREAD		MOUNTING HARDWARE SHCS		
															Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	0.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	.752	.625	.312	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
0.75	1.00	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	1.002	.750	.438	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.00	M10-1.5x50
1.00	1.00	1.94	2.75	1.031	2.062	2.62	1.66	1.50	1.062	1.560	1.002	1.002	.875	.438	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x2.25	M10-1.5x55
1.00	1.25	1.94	2.75	1.031	2.062	2.62	1.66	1.50	1.062	1.560	1.002	1.252	1.000	.500	.406	10.5mm	0.375-16	M10-1.5	219	0.375-16x2.25	M10-1.5x55
1.25	1.25	2.19	3.12	1.188	2.312	3.00	1.91	1.81	1.188	1.750	1.252	1.252	1.125	.500	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x2.75	M10-1.5x70
1.25	1.50	2.19	3.12	1.188	2.312	3.00	1.91	1.81	1.188	1.750	1.252	1.502	1.250	.562	.469	10.5mm	0.438-14	M10-1.5	222	0.438-14x2.75	M10-1.5x70
1.50	1.50	2.56	3.69	1.406	2.750	3.33	2.05	2.00	1.312	2.115	1.502	1.502	1.375	.562	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x3.00	M12-1.75x75
1.50	1.75	2.56	3.69	1.406	2.750	3.33	2.05	2.00	1.312	2.115	1.502	1.752	1.500	.562	.531	12.5mm	0.500-13	M12-1.75	225	0.500-13x3.00	M12-1.75x75
2.00	2.00	3.06	4.33	1.688	3.062	3.81	2.28	2.50	1.656	2.490	2.002	2.002	1.875	.625	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x3.50	M12-1.75x90
2.00	2.25	3.06	4.33	1.688	3.062	3.81	2.28	2.50	1.656	2.490	2.002	2.252	2.000	.625	.531	12.5mm	0.500-13	M12-1.75	228	0.500-13x3.50	M12-1.75x90

CODE 62 SOCKET WELD TUBE ELBOW																					
FLANGE SIZE	TUBE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P DIA THRU		R THREAD		MOUNTING HARDWARE SHCS		
															Mounting U or X	Mounting M or Y	UNC-2B U or X	ISO 6H M or Y	O-RING	Mounting U	Mounting M
0.75	0.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	.752	.625	.56	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.25	M10-1.5x55
0.75	1.00	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	1.002	.750	.62	.406	10.5mm	0.375-16	M10-1.5	214	0.375-16x2.25	M10-1.5x55
1.00	1.00	2.19	3.12	1.093	2.250	3.00	1.91	1.81	1.188	1.560	1.002	1.002	.875	.62	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.00	1.25	2.19	3.12	1.093	2.250	3.00	1.91	1.81	1.188	1.560	1.002	1.252	1.000	.69	.492	12.5mm	0.438-14	M12-1.75	219	0.438-14x2.50	M12-1.75x65
1.25	1.25	2.56	3.69	1.250	2.625	3.32	2.05	2.00	1.312	1.750	1.252	1.252	1.125	.69	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x3.00	M12-1.75x75
1.25	1.50	2.56	3.69	1.250	2.625	3.32	2.05	2.00	1.312	1.750	1.252	1.502	1.250	.75	.531	12.5mm	0.500-13	M12-1.75	222	0.500-13x3.00	M12-1.75x75
1.50	1.50	3.06	4.33	1.437	3.125	3.81	2.28	2.50	1.656	2.115	1.502	1.502	1.375	.75	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.50	M16-2.0x90
1.50	1.75	3.06	4.33	1.437	3.125	3.81	2.28	2.50	1.656	2.115	1.502	1.752	1.500	.75	.656	16.5mm	0.625-11	M16-2.0	225	0.625-11x3.50	M16-2.0x90

Pressure Ratings and Fastener Torque Values

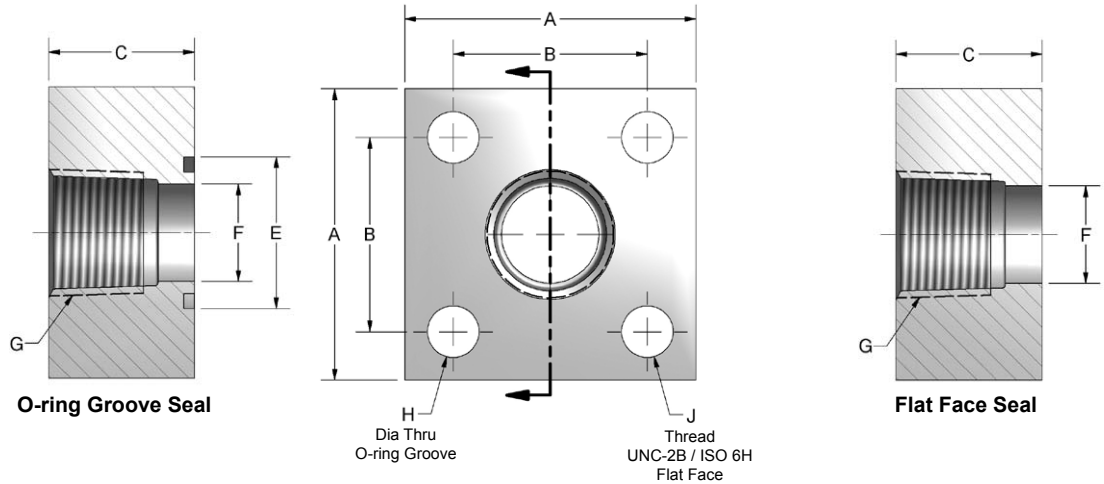
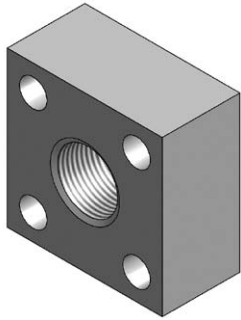
CODE 61 SAE J518-1 / ISO 6162-1						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	5000	35.0	24	32	
-12	0.75"	5000	35.0	44	70	
-16	1.00"	4600	32.0	44	70	
-20	1.25"	4000	28.0	68	70	
-24	1.50"	3000	21.0	111	130	
-32	2.00"	3000	21.0	111	130	
-40	2.50"	2500	17.5	111	130	
-48	3.00"	2300	16.0	218	295	
-56	3.50"	500	3.5	218	295	
-64	4.00"	500	3.5	218	295	
-80	5.00"	500	3.5	218	295	

CODE 62 SAE J518-2 / ISO 6162-2						
Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value		
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)	
-8	0.50"	6000	40.0	24	32	
-12	0.75"	6000	40.0	44	70	
-16	1.00"	6000	40.0	68	130	
-20	1.25"	6000	40.0	111	130	
-24	1.50"	6000	40.0	218	295	
-32	2.00"	6000	40.0	332	550	

Please note that all pressure ratings in this catalog refer to the flange connection. Adapting the flange to other connections, such as braze tube, welded pipe, or threaded ports / stud ends could reduce maximum working pressure.

3000 Series Square Pattern

NPTF Port



Ordering Information

FG	Flange Size	Material	Product Type	Seal	Rating Code	Port Size	Port Type	Mounting																																																																				
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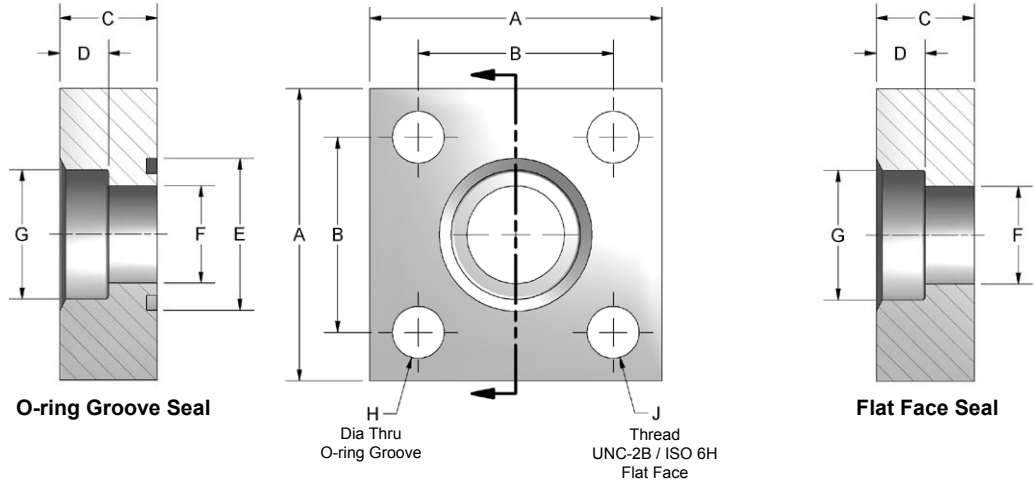
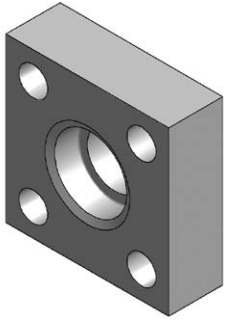
3000 Series Square Pattern

NPTF Port

3000 SERIES SQUARE PATTERN - NPTF PORT										
FLANGE SIZE	A	B	C	E	F	G NPTF	H DIA THRU	J THREAD	MOUNTING HARDWARE SHCS	
							Mounting U or X	UNC-2B U or X	O-RING	Mounting U
0.75	2.25	1.438	1.25	1.250	.752	.75	.406	0.375-16	214	0.375-16x2.00
1.00	3.00	2.000	1.50	1.560	1.002	1.00	.531	0.500-13	219	0.500-13x2.25
1.25	3.00	2.000	1.50	1.750	1.252	1.25	.531	0.500-13	222	0.500-13x2.25
1.50	4.00	2.750	1.75	2.115	1.502	1.50	.656	0.625-11	225	0.625-11x2.75
2.00	4.00	2.750	1.75	2.490	2.002	2.00	.656	0.625-11	228	0.625-11x2.75
2.50	5.50	3.750	2.25	2.995	2.502	2.50	.906	0.875-9	232	0.875-9x3.50
3.00	5.50	3.750	2.25	3.615	3.002	3.00	.906	0.875-9	237	0.875-9x3.50

3000 Series Square Pattern

Socket Weld Pipe



Ordering Information

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3000 Series Square Pattern

Socket Weld Pipe

Carbon Steel

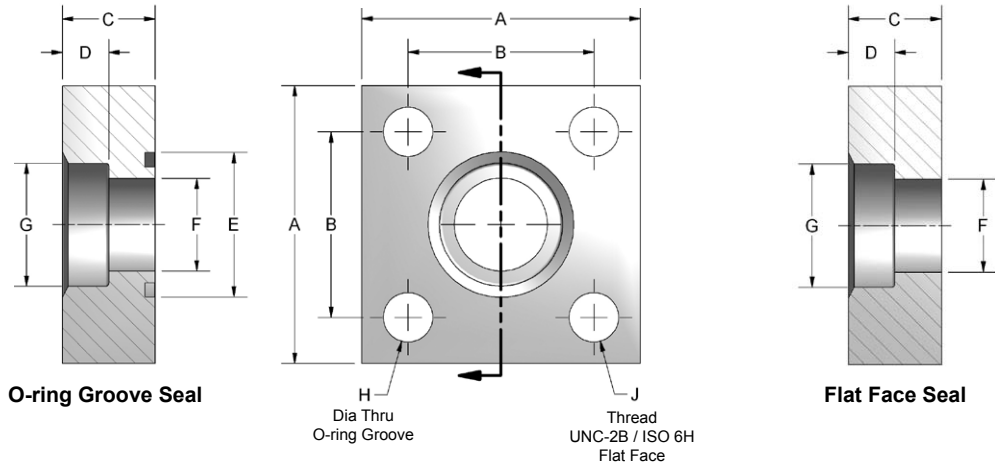
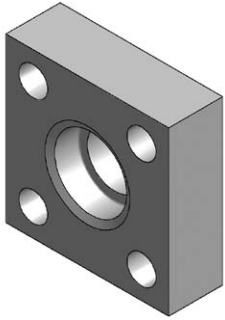
3000 SERIES SQUARE PATTERN - SOCKET WELD PIPE											
FLANGE SIZE	A	B	C	D	E	F	G	H	J	MOUNTING HARDWARE SHCS	
								DIA THRU	THREAD	O-RING	Mounting U
0.75	2.25	1.438	1.00	.50	1.250	.752	1.062	.406	0.375-16	214	0.375-16x1.75
1.00	3.00	2.000	1.00	.50	1.560	1.002	1.328	.531	0.500-13	219	0.500-13x1.75
1.25	3.00	2.000	1.00	.50	1.750	1.252	1.672	.531	0.500-13	222	0.500-13x1.75
1.50	4.00	2.750	1.25	.62	2.115	1.502	1.922	.656	0.625-11	225	0.625-11x2.25
2.00	4.00	2.750	1.25	.62	2.490	2.002	2.406	.656	0.625-11	228	0.625-11x2.25
2.50	5.50	3.750	1.50	.75	2.995	2.502	2.906	.906	0.875-9	232	0.875-9x2.75
3.00	5.50	3.750	1.50	.75	3.615	3.002	3.547	.906	0.875-9	237	0.875-9x2.75
4.00	7.00	5.000	2.00	.75	4.625	3.880	4.578	1.060	1.000-8	245	1.000-8x3.50

Stainless Steel

3000 SERIES SQUARE PATTERN - SOCKET WELD PIPE											
FLANGE SIZE	A	B	C	D	E	F	G	H	J	MOUNTING HARDWARE SHCS	
								DIA THRU	THREAD	O-RING	Mounting U
0.75	2.25	1.438	1.00	.50	1.250	.752	1.062	.406	0.375-16	214	0.375-16x1.75
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2.00	4.00	2.750	1.25	.62	2.490	2.002	2.406	.656	0.625-11	228	0.625-11x2.25
2.50	5.50	3.750	1.50	.75	2.995	2.502	2.906	.906	0.875-9	232	0.875-9x2.75
3.00	5.50	3.750	1.50	.75	3.615	3.002	3.547	.906	0.875-9	237	0.875-9x2.75
4.00	7.00	5.000	2.00	.75	4.625	3.880	4.550	1.060	1.000-8	245	1.000-8x4.00

6000 Series Square Pattern

Socket Weld Pipe



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FG	Flange Size	Material	Product Type	Seal	Rating Code	Pipe Size	Port Type	Mounting																																																										
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Seal																																																																		
G	O-ring Groove																																																																	
F	Flat Face																																																																	
Rating Code																																																																		
6	6000 Series																																																																	
Pipe Size																																																																		
Not all pipe sizes are available for each flange size. See chart next page.																																																																		
40	2.50"																																																																	
48	3.00"																																																																	
56	3.50"																																																																	
64	4.00"																																																																	
80	5.00"																																																																	
Port Type																																																																		
P	Pipe Socket Weld																																																																	
Mounting																																																																		
Seal code G only																																																																		
U	UNC mounting kit																																																																	
Seal code G or F																																																																		
X	No kit included UNC mounting holes																																																																	



6000 Series Square Pattern

Socket Weld Pipe

6000 SERIES SQUARE PATTERN - SOCKET WELD PIPE											
FLANGE SIZE	A	B	C	D	E	F	G	H DIA THRU	J THREAD	MOUNTING HARDWARE SHCS	
								Mounting U or X	UNC-2B U or X	O-RING	Mounting U
2.50	5.50	3.750	1.75	.75	2.995	2.12	2.911	.94	0.875-9	232	0.875-9x3.50
3.00	6.75	4.750	2.00	.75	3.615	2.62	3.540	1.06	1.000-8	236	1.000-8x4.00
3.50	8.00	5.500	2.40	1.002	3.990	3.00	4.045	1.31	1.250-7	342	1.250-7x5.00
4.00	8.50	6.000	2.40	1.002	4.490	3.44	4.550	1.31	1.250-7	346	1.250-7x6.00
5.00	10.00	7.250	2.90	1.002	5.365	4.31	5.625	1.56	1.500-6	353	1.500-6x6.00



Notes

Lined area for notes, consisting of multiple horizontal lines.

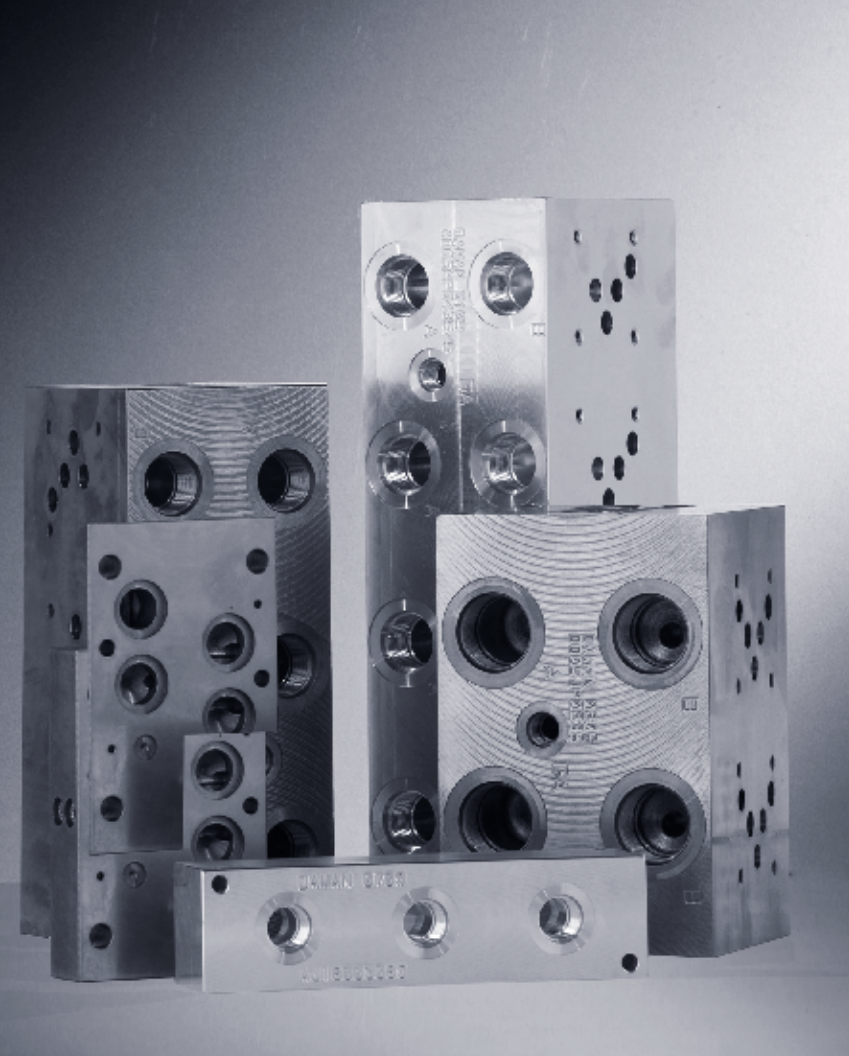
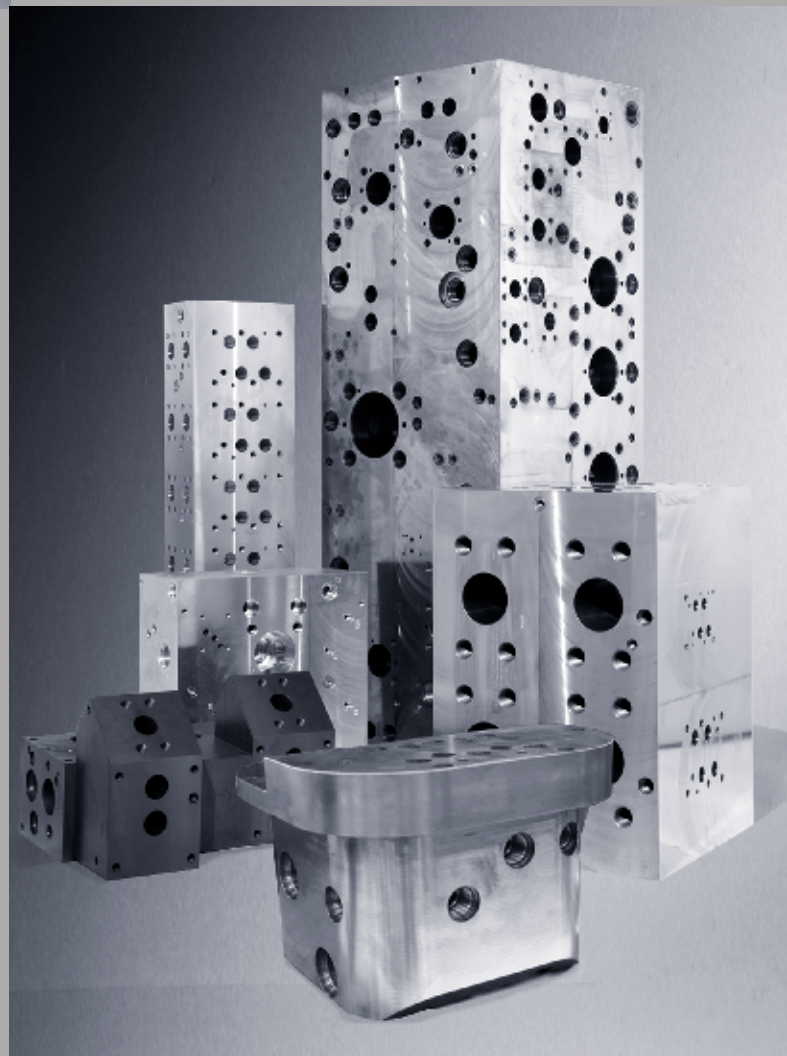
At Daman Products, we set the standard for innovative solutions in the fluid power industry. Our customers value our commitment to service and dedication to quality manufacturing of hydraulic valve manifolds and related products. Whether you need standard parts or a custom design, we have a solution that works.

Standard Products

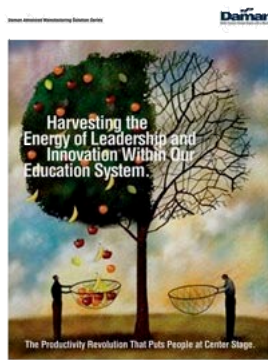
- **Complete product line** of manifolds, subplates, adaptors, and cover plates meet ISO and NFPA standards.
- More than **1 million part numbers** provide solutions that work.
- **Same-day shipments** of stock items reduce supply chain inventory.
- **Fast delivery** of non-stock items fulfills customer needs.
- **100 percent on-time shipments** ensure customer satisfaction.
- **D03 – D10 product lines** meet fluid power needs.

Custom Solutions

- **Design accuracy** of custom products creates efficient, cost-effective solutions.
- **200 years of combined experience** in manifold design and manufacturing result in accurate custom design solutions.
- **Integrated circuitry and field application** knowledge and experience ensure user-friendly products.
- **Trigger System next-day shipments** deliver parts on demand to reduce inventory excess.
- **Design and estimating team** serves each customer's needs.
- **Access to archival information** on valve manufacturer dimensions ensures properly functioning parts.
- **Rapid responses** within 24 hours to request for quotes meet schedule demands.



Learn More About Daman Innovations



Daman's White Paper Information Series helps users understand individual product and process innovations, as well as product service issues related to the hydraulic manifold industry, Daman's customer benefit programs, and specific product applications and technologies. The series is available on Daman's Web site, www.daman.com.

Daman publishes a newsletter for customers and others interested in a continuously improving manufacturer. Each issue of *Hydraulic Manifold News* features

information-based articles discussing industry trends, Daman news, customer service innovations and engineering solutions. The series is available on Daman's Web site, www.daman.com.



