



4 BOLT FLANGE FITTINGS

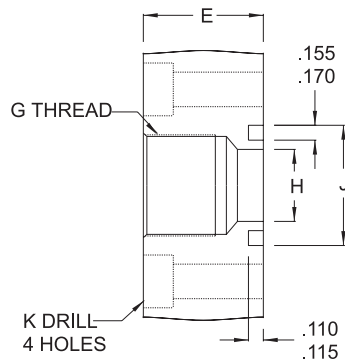


Figure 1

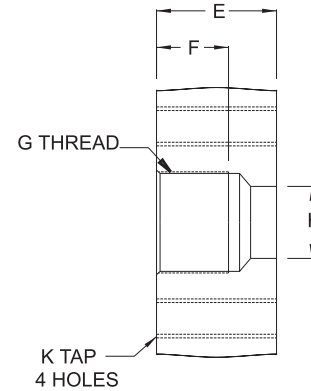
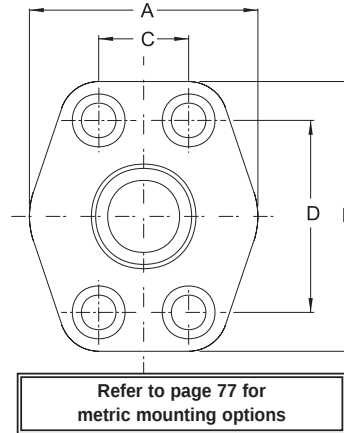


Figure 2

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	G Thread NPTF	H	J Min	J Max	K Drill Dia.	K Tap UN-2B	Mounting O'Ring	Hardware SHCS
CODE 61				3000 PSI NPTF THREAD												
W43-8-8-U	W104-8-8	.50	.50	1.81	2.17	.688	1.500	1.25	.50	.50	1.000	1.005	.344	5/16-18	210	5/16-18x1.50
W43-12-12-U	W104-12-12	.75	.75	2.06	2.69	.875	1.875	1.25	.75	.75	1.250	1.255	.406	3/8-16	214	3/8-16x1.50
W43-16-16-U	W104-16-16	1.00	1.00	2.31	2.88	1.031	2.062	1.50	1.00	1.00	1.560	1.565	.406	3/8-16	219	3/8-16x1.75
W43-20-20-U	W104-20-20	1.25	1.25	2.88	3.25	1.188	2.312	1.50	1.25	1.25	1.750	1.755	.469	7/16-14	222	7/16-14x1.75
W43-24-24-U	W104-24-24	1.50	1.50	3.25	3.81	1.406	2.750	1.75	1.50	1.50	2.115	2.125	.531	1/2-13	225	1/2-13x2.00
W43-32-32-U	W104-32-32	2.00	2.00	3.81	4.13	1.688	3.062	1.75	2.00	2.00	2.490	2.500	.531	1/2-13	228	1/2-13x2.00
W43-40-40-U	W104-40-40	2.50	2.50	4.28	4.63	2.000	3.500	2.00	2.50	2.50	2.995	3.005	.531	1/2-13	232	1/2-13x2.25
W43-48-48-U	W104-48-48	3.00	3.00	5.16	5.44	2.438	4.188	2.25	3.00	3.00	3.615	3.625	.656	5/8-11	237	5/8-11x2.50

Part Numbers with "U" Suffix include Bolt Kit and O-Ring

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	G Straight Thread	H	J Min	J Max	K Drill Dia.	K Tap UN-2B	Mounting O'Ring	Hardware SHCS
CODE 61 3000 PSI SAE STRAIGHT THREAD																
W46-12-12-U	–	.75	.75	2.06	2.69	.875	1.875	1.25	1 ¹ / ₁₆ -12	.75	1.250	1.255	.406	–	214	³ / ₈ -16x1.50
W46-16-16-U	–	1.00	1.00	2.31	2.88	1.031	2.062	1.50	1 ⁵ / ₁₆ -12	1.00	1.560	1.565	.406	–	219	³ / ₈ -16x1.75
W46-20-20-U	–	1.25	1.25	2.88	3.25	1.188	2.312	1.50	1 ⁵ / ₈ -12	1.25	1.750	1.755	.469	–	222	⁷ / ₁₆ -14x1.75
W46-24-24-U	–	1.50	1.50	3.25	3.81	1.406	2.750	1.75	1 ⁷ / ₈ -12	1.50	2.115	2.125	.531	–	225	¹ / ₂ -13x2.00

Part Numbers with "U" Suffix include Bolt Kit and O-Ring

O'Ring Part No. Fig.1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	G Thread NPTF	H	J Min	J Max	K Drill Dia.	K Tap UN-2B	Mounting Hardware	
															O'Ring	SHCS
CODE 61																
3000 PSI NPTF THREAD REDUCING																
W43-12-16-U	—	.75	1.00	2.88	2.75	1.031	2.062	1.50	.75	1.00	1.560	1.565	.406	—	219	3/8-16x1.75
W43-16-20-U	—	1.00	1.25	3.25	3.12	1.188	2.312	1.50	1.00	1.25	1.750	1.755	.469	—	222	7/16-14x1.75
W43-20-24-U	—	1.25	1.50	3.81	3.69	1.406	2.750	1.75	1.25	1.50	2.115	2.125	.531	—	225	1/2-13x2.00
W43-24-32-U	—	1.50	2.00	4.13	4.00	1.688	3.062	1.75	1.50	2.00	2.490	2.500	.531	—	228	1/2-13x2.00

Part Numbers with "U" Suffix include Bolt Kit and O-Ring



4 BOLT FLANGE FITTINGS

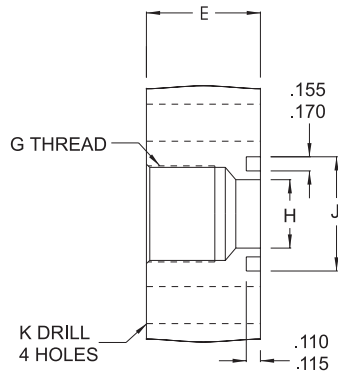
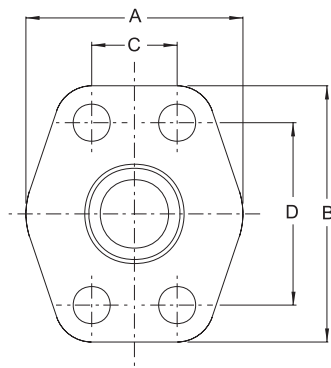


Figure 1



Refer to page 77 for metric mounting options

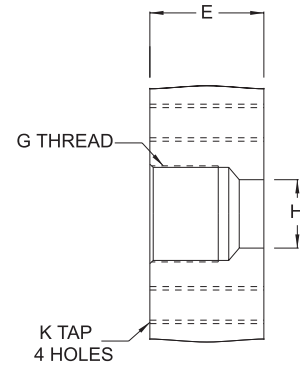


Figure 2

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	G Thread NPTF	H	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	Mounting Hardware O'Ring	SHCS
CODE 62				6000 PSI NPTF THREAD												
W44-8-8-U	W45-8-8	.50	.50	1.940	2.300	.718	1.594	1.25	.500	.50	1.000	1.005	.344	5/16-18	210	5/16-18x200
W44-12-12-U	W45-12-12	.75	.75	2.500	2.950	.937	2.000	1.25	.750	.75	1.250	1.255	.406	3/8-16	214	3/8-16x2.00
W44-16-16-U	W45-16-16	1.00	1.00	2.750	3.190	1.093	2.250	1.50	1.000	1.00	1.560	1.565	.469	7/16-14	219	7/16-14x2.50
W44-20-20-U	W45-20-20	1.25	1.25	3.060	3.750	1.250	2.625	1.50	1.250	1.25	1.750	1.755	.531	1/2-13	222	1/2-13x2.50
W44-24-24-U	W45-24-24	1.50	1.50	3.750	4.440	1.437	3.125	1.75	1.500	1.50	2.115	2.125	.656	5/8-11	225	5/8-11x3.00
W44-32-32-U	W45-32-32	2.00	2.00	4.500	5.250	1.750	3.812	1.75	2.000	2.00	2.490	2.500	.781	3/4-10	228	3/4-10x3.00

Part Numbers with "U" Suffix include Bolt Kit and O'Ring

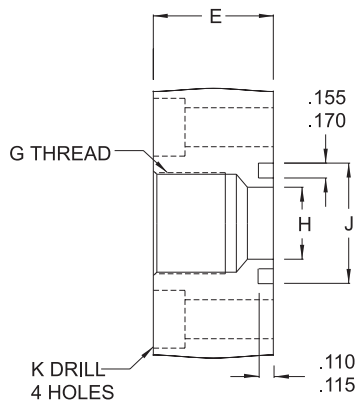
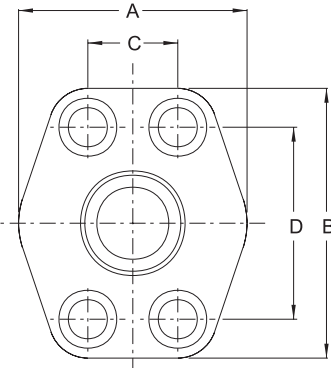


Figure 3



Refer to page 77 for metric mounting options

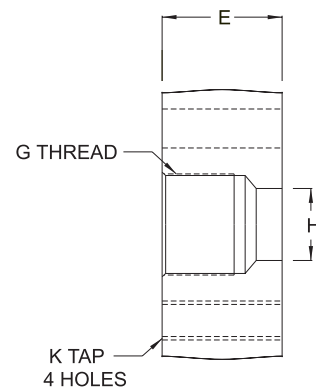


Figure 4

O'Ring Part No. Fig. 3	Flat Face Part No. Fig. 4	Pipe Size	Pad Size	A	B	C	D	E	G Straight Thread	H	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	Mounting Hardware O'Ring	SHCS
CODE 62				6000 PSI SAE STRAIGHT THREAD												
W48-12-12-U	W49-12-12	.75	.75	2.50	2.95	.937	2.000	1.25	1 1/16-12	.75	1.250	1.255	.406	3/8-16	214	3/8-16x1.75
W48-16-16-U	W49-16-16	1.00	1.00	2.75	3.19	1.093	2.250	1.50	1 5/16-12	1.00	1.560	1.565	.409	7/16-14	219	7/16-14x1.75
W48-20-20-U	W49-20-20	1.25	1.25	3.06	3.75	1.250	2.625	1.50	1 5/8-12	1.25	1.750	1.755	.531	1/2-13	222	1/2-13x2.00
W48-24-24-U	W49-24-24	1.50	1.50	3.75	4.44	1.437	3.125	1.75	1 7/8-12	1.50	2.115	2.125	.656	5/8-11	225	5/8-11x2.25
W48-32-32-U	W49-32-32	2.00	2.00	4.50	5.25	1.750	3.812	1.75	2 1/2-12	2.00	2.490	2.500	.781	3/4-10	228	3/4-10x1.50

Part Numbers with "U" Suffix include Bolt Kit and O'Ring

NOTE: WITH VESCORS' POLICY OF CONSTANTLY IMPROVING ITS PRODUCTS, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



4 BOLT FLANGE FITTINGS

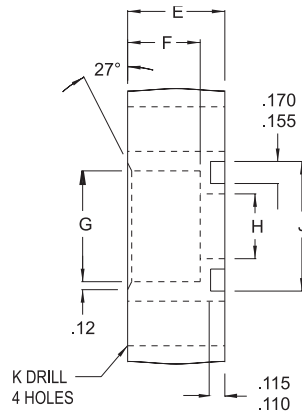


Figure 1

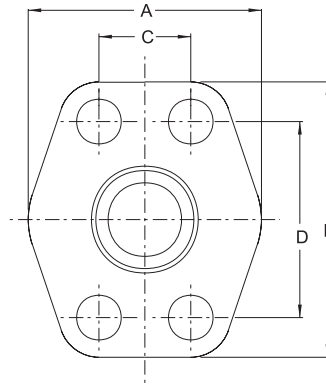


Figure 2

Refer to page 77 for
metric mounting options

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Dia.	H Dia.	J Dia. Min.	J Dia. Max.	K Drill Dia.	K Tap UN-2B	Mounting Hardware	
																O'Ring	SHCS
CODE 61 3000 PSI FLAT SOCKET-PIPE																	
W4-8-8-U	W61-8-8	.50	.50	1.813	2.125	.688	1.500	.75	.560	.855	.50	1.000	1.005	.344	5/16-18	210	5/16-18x1.50
W4-12-12-U	W61-12-12	.75	.75	2.063	2.563	.875	1.875	.75	.560	1.062	.75	1.250	1.255	.406	3/8-16	214	3/8-16x1.50
W4-16-16-U	W61-16-16	1.00	1.00	2.313	2.750	1.031	2.063	.88	.630	1.326	1.00	1.560	1.565	.406	3/8-16	219	3/8-16x1.75
W4-20-20-U	W61-20-20	1.25	1.25	2.875	3.125	1.188	2.313	.94	.690	1.672	1.25	1.750	1.755	.469	7/16-14	222	7/16-14x1.75
W4-24-24-U	W61-24-24	1.50	1.50	3.250	3.688	1.406	2.750	1.19	.750	1.922	1.50	2.115	2.125	.531	1/2-13	225	1/2-13x2.25
W4-32-32-U	W61-32-32	2.00	2.00	3.813	4.000	1.688	3.063	1.38	.875	2.406	2.00	2.490	2.500	.531	1/2-13	228	1/2-13x2.50
W4-40-40-U	W61-40-40	2.50	2.50	4.281	4.500	2.000	3.500	1.75	1.00	2.906	2.50	2.995	3.005	.531	1/2-13	232	1/2-13x2.75
W4-48-48-U	W61-48-48	3.00	3.00	5.156	5.313	2.438	4.188	2.12	1.25	3.547	3.00	3.615	3.625	.656	5/8-11	237	5/8-11x3.50

Part Numbers with "U" Suffix include Bolt Kit and O'Ring

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Dia.	H	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	Mounting Hardware	
																O'Ring	SHCS
CODE 61 3000 PSI FLAT SOCKET-PIPE REDUCING FLANGES																	
W4-8-12-U	—	.50	.75	2.063	2.563	.875	1.875	.75	.560	.855	.75	1.250	1.255	.406	—	214	3/8-16x1.50
W4-12-16-U	—	.75	1.00	2.313	2.750	1.031	2.063	.88	.630	1.062	1.00	1.560	.565	.406	—	219	3/8-16x1.75
W4-16-20-U	—	1.00	1.25	2.875	3.125	1.188	2.313	.94	.690	1.326	1.25	1.750	1.755	.469	—	222	7/16-14x1.75
W4-20-24-U	—	1.25	1.50	3.250	3.688	1.406	2.750	1.19	.750	1.672	1.50	2.115	2.125	.531	—	225	1/2-13x2.25
W4-24-32-U	—	1.50	2.00	3.813	4.000	1.688	3.063	1.38	.875	1.922	2.00	2.490	2.500	.531	—	228	1/2-13x2.50

Part Numbers with "U" Suffix include Bolt Kit and O'Ring

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G	H	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	Mounting Hardware	
																O'Ring	SHCS
500 PSI FLAT SOCKET-PIPE																	
W72-48-48-U	—	3.00	3.00	5.12	5.31	2.438	4.188	1.38	1.12	3.547	3.00	3.615	3.625	.656	—	237	5/8-11x2.50
W72-56-56-U	—	3.50	3.50	5.50	6.00	2.750	4.750	1.44	1.19	4.047	3.50	4.095	4.115	.656	—	241	5/8-11x2.75
W72-64-64-U	—	4.00	4.00	6.00	6.38	3.062	5.125	1.50	1.25	4.578	4.00	4.595	4.615	.656	—	245	5/8-11x2.75

Part Numbers with "U" Suffix include Bolt Kit and O'Ring



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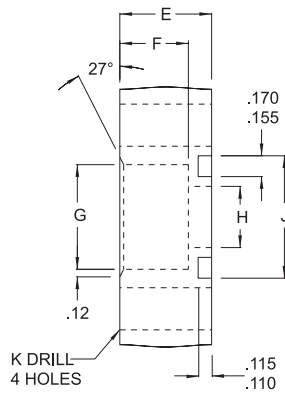
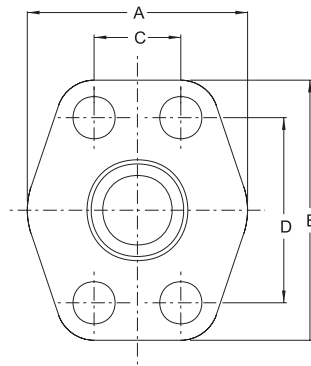


Figure 1



Refer to page 77 for
metric mounting options

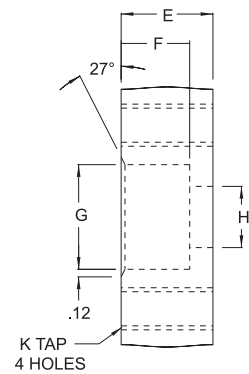


Figure 2

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Dia.	H Dia.	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	Mounting Hardware O'Ring	SHCS
CODE 62 6000 PSI FLAT SOCKET PIPE																	
W59-8-8-U	W60-8-8	.50	.50	1.94	2.30	.718	1.594	1.25	.560	.855	.50	1.000	1.005	.344	5/16-18	210	5/16-18x2.00
W59-12-12-U	W60-12-12	.75	.75	2.50	2.95	.937	2.000	1.25	.560	1.063	.75	1.250	1.255	.406	3/8-16	214	3/8-16x2.00
W59-16-16-U	W60-16-16	1.00	1.00	2.75	3.19	1.093	2.250	1.50	.630	1.328	1.00	1.560	1.565	.469	7/16-14	219	7/16-14x2.50
W59-20-20-U	W60-20-20	1.25	1.25	3.06	3.75	1.250	2.625	1.50	.690	1.672	1.25	1.750	1.755	.531	1/2-13	222	1/2-13x2.50
W59-24-24-U	W60-24-24	1.50	1.50	3.75	4.44	1.437	3.125	1.75	.750	1.922	1.50	2.115	2.125	.656	5/8-11	225	5/8-11x3.00
W59-32-32-U	W60-32-32	2.00	2.00	4.50	5.25	1.750	3.812	1.75	.875	2.406	2.00	2.490	2.500	.781	3/4-10	228	3/4-10x3.00

Part Numbers with "U" Suffix include Bolt Kit and O-Ring

Part No. Fig. 3	Pad Size	A	B	C ±.010	D ±.010	E	H	J Dia. Min.	J Dia. Max.	K Dia.
CODE 62 O-RING SPACER										
ASX-12-GP	0.750	2.50	2.95	0.937	2.000	1.250	0.750	1.250	1.256	0.406
ASX-16-GP	1.000	2.75	3.19	1.093	2.250	1.500	1.000	1.560	1.565	0.469
ASX-20-GP	1.250	3.06	3.75	1.250	2.625	1.500	1.250	1.750	1.755	0.531
ASX-24-GP	1.500	3.75	4.44	1.437	3.125	1.750	1.500	2.115	2.125	0.656
ASX-32-GP	2.000	4.50	5.25	1.750	3.812	1.750	2.000	2.490	2.500	0.781
CODE 61 O-RING SPACER										
AS-8-GP	0.500	1.813	2.125	0.688	1.500	0.88	0.500	1.000	1.005	0.344
AS-12-GP	0.750	2.063	2.563	0.875	1.875	0.88	0.750	1.250	1.255	0.406
AS-16-GP	1.000	2.313	2.750	1.031	2.063	0.88	1.000	1.560	1.565	0.406
AS-20-GP	1.250	2.875	3.125	1.188	2.313	0.94	1.250	1.750	1.755	0.469
AS-24-GP	1.500	3.250	3.688	1.406	2.750	1.19	1.500	2.115	2.125	0.531
AS-32-GP	2.000	3.813	4.000	1.688	3.063	1.38	2.000	2.490	2.500	0.531

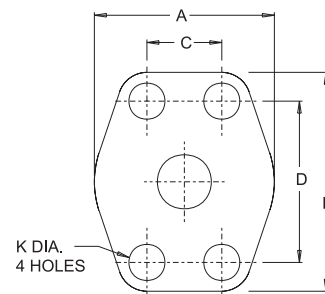
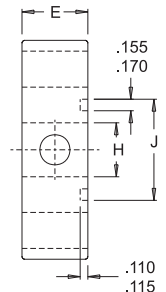


Figure 3





4 BOLT FLANGE FITTINGS

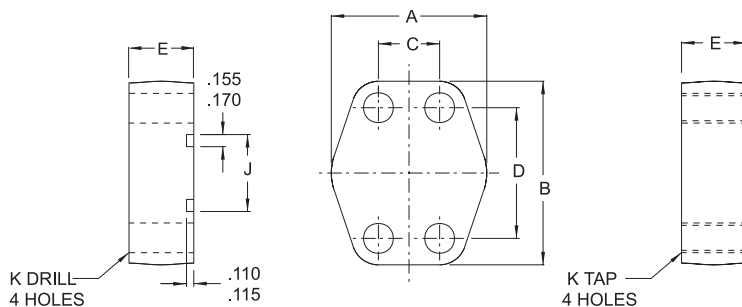


Figure 1

Refer to page 77 for
metric mounting options

Figure 2

O'Ring Part No. Fig. 1	Flat Face Part Fig. 2	Pad Size	A	B	C	D	E	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	Mounting O'Ring	Hardware SHCS
CODE 61			3000 PSI BLANKING										
W36-8-8-U	W37-8-8	.50	1.813	2.125	.688	1.500	.750	1.000	1.005	.344	5/16-18	210	5/16-18x1.50
W36-12-12-U	W37-12-12	.75	2.063	2.563	.875	1.875	.750	1.250	1.255	.406	3/8-16	214	3/8-16x1.50
W36-16-16-U	W37-16-16	1.00	2.313	2.750	1.031	2.063	.880	1.560	1.565	.406	3/8-16	219	3/8-16x1.75
W36-20-20-U	W37-20-20	1.25	2.875	3.125	1.188	2.313	.940	1.750	1.755	.469	7/16-14	222	7/16-14x1.75
W36-24-24-U	W37-24-24	1.50	3.250	3.688	1.406	2.750	1.190	2.115	2.125	.531	1/2-13	225	1/2-13x2.25
W36-32-32-U	W37-32-32	2.00	3.813	4.000	1.688	3.063	1.440	2.490	2.500	.531	1/2-13	228	1/2-13x2.50
W36-40-40-U	W37-40-40	2.50	4.281	4.500	2.000	3.500	1.815	2.995	3.005	.531	1/2-13	232	1/2-13x2.75
W36-48-48-U	W37-48-48	3.00	5.156	5.313	2.438	4.188	2.190	3.615	3.625	.656	5/8-11	237	5/8-11x3.50

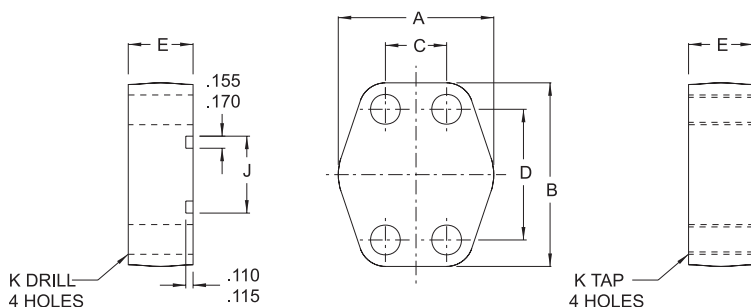


Figure 3

Refer to page 77 for
metric mounting options

Figure 4

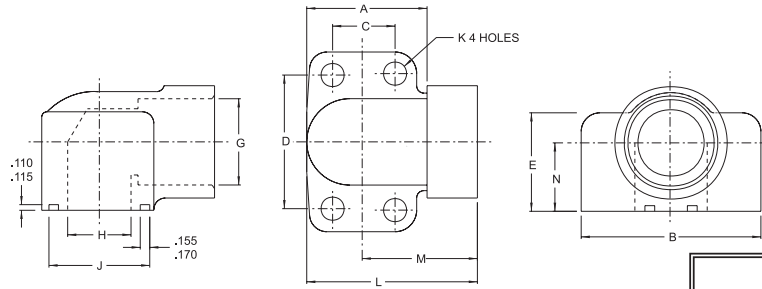
O'Ring Part No. Fig. 3	Flat Face Part Fig. 4	Pad Size	A	B	C	D	E	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	Mounting Hardware	
												O'Ring	SHCS
CODE 62			6000 PSI BLANKING										
W38-8-8-U	W39-8-8	.50	1.94	2.30	.718	1.594	.870	1.000	1.005	.344	5/16-18	210	5/16-18x1.50
W38-12-12-U	W39-12-12	.75	2.50	2.95	.937	2.000	1.250	1.250	1.255	.406	3/8-16	214	3/8-16x1.50
W38-16-16-U	W39-16-16	1.00	2.75	3.19	1.093	2.250	1.500	1.560	1.565	.469	7/16-14	219	7/16-14x1.75
W38-20-20-U	W39-20-20	1.25	3.06	3.75	1.250	2.625	1.565	1.750	1.755	.531	1/2-13	222	1/2-13x1.75
W38-24-24-U	W39-24-24	1.50	3.75	4.44	1.437	3.125	1.815	2.115	2.125	.656	5/8-11	225	5/8-11x2.25
W38-32-32-U	W39-32-32	2.00	4.50	5.25	1.750	3.812	1.815	2.490	2.500	.781	3/4-10	228	3/4-10x2.00
W38-40-40-U	W39-40-40	2.50	5.87	6.87	2.312	4.875	2.060	2.995	3.005	.906	7/8-9	232	7/8-9x3.50
W38-48-48-U	W39-48-48	3.00	7.00	8.50	2.812	6.000	2.620	3.615	3.625	1.156	1 1/8-7	237	1 1/8-7x4.50

Part Numbers with "U" Suffix include Bolt Kit and O'Ring



4 BOLT FLANGE FITTINGS

Figure 1



Refer to page 77 for
metric mounting options

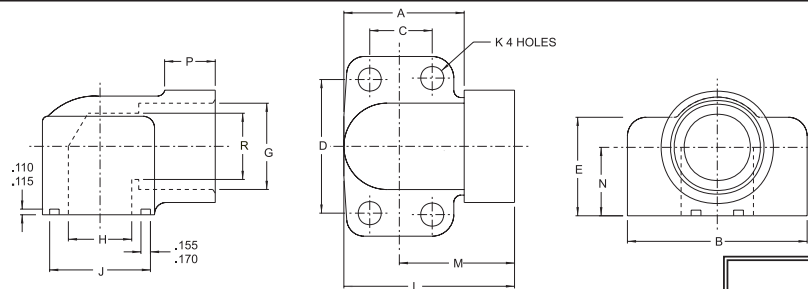
O'Ring Part No. Fig.1	Pad Size	A	B	C	D	E	G Thread NPT	H	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	L	M	N	Mounting Hardware O'Rings SHCS		
CODE 61		3000 PSI ELBOW SAE STRAIGHT THREAD																
W164-12-12-U	.75	1.69	2.56	.875	1.875	1.25	1 ¹ / ₁₆ -12	.75	1.250	1.255	.406	–	2.28	1.44	.875	214	³ / ₈ -16x2.00	
W164-16-16-U	1.00	1.94	2.75	1.031	2.062	1.50	1 ⁵ / ₁₆ -12	1.00	1.560	1.565	.406	–	2.62	1.66	1.062	219	³ / ₈ -16x2.25	
W164-20-20-U	1.25	2.19	3.12	1.188	2.312	1.81	1 ⁵ / ₈ -12	1.25	1.750	1.755	.469	–	3.00	1.91	1.188	222	⁷ / ₁₆ -16x2.75	
W164-24-24-U	1.50	2.56	3.69	1.406	2.750	2.00	1 ⁷ / ₈ -12	1.50	2.115	2.125	.531	–	3.33	2.05	1.312	225	¹ / ₂ -13x3.00	
W164-32-32-U	2.00	3.06	4.33	1.688	3.062	2.50	2 ¹ / ₂ -12	2.00	2.490	2.500	.531	–	3.81	2.28	1.656	228	¹ / ₂ -13x3.50	

Part Numbers with "U" Suffix include Bolt Kit and O'Ring

O'Ring Part No. Fig.1	Pad Size	A	B	C	D	E	G Straight Thread	H	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	L	M	N	Mounting Hardware O'Rings SHCS	
CODE 61		3000 PSI ELBOW NPTF THREAD															
W168-12-12-U	.75	1.69	2.56	.875	1.875	1.25	.75	.75	1.250	1.255	.406	–	2.28	1.44	.875	214	3/8-16x2.00
W168-16-16-U	1.00	1.94	2.75	1.031	2.062	1.50	1.00	1.00	1.560	1.565	.406	–	2.62	1.66	1.062	219	3/8-16x2.25
W168-20-20-U	1.25	2.19	3.12	1.188	2.312	1.81	1.25	1.25	1.750	1.755	.469	–	3.00	1.91	1.188	222	7/16-14x2.75
W168-24-24-U	1.50	2.56	3.69	1.406	2.750	2.00	1.50	1.50	2.115	2.125	.531	–	3.33	2.05	1.312	225	1/2-13x3.00
W168-32-32-U	2.00	3.06	4.33	1.688	3.062	2.50	2.00	2.00	2.490	2.500	.531	–	3.81	2.28	1.656	228	5/8-11x3.50

Part Numbers with "U" Suffix include Bolt Kit and O'Ring

Figure 1



Refer to page 77 for
metric mounting options

O'Ring Part No. Fig.1	Pad Size	A	B	C	D	E	G	H	J Min.	J Max.	K Drill Dia.	K Tap UN-2B	L	M	N	P	R	Mounting Hardware O'Rings SHCS	
CODE 61		3000 PSI ELBOW SOCKET WELD																	
W176-12-12-U	.75	1.69	2.56	.875	1.875	1.25	1.062	.75	1.250	1.255	.406	–	2.28	1.44	.875	0.56	0.75	214	3/8-16x2.00
W176-16-16-U	1.00	1.94	2.75	1.031	2.062	1.50	1.328	1.00	1.560	1.565	.406	–	2.62	1.66	1.062	0.56	1.00	219	3/8-16x2.25
W176-20-20-U	1.25	2.19	3.12	1.188	2.312	1.81	1.672	1.25	1.750	1.755	.469	–	3.00	1.91	1.188	0.62	1.25	222	7/16-14x2.75
W176-24-24-U	1.50	2.56	3.69	1.406	2.750	2.00	1.922	1.50	2.115	2.125	.531	–	3.28	2.05	1.312	0.69	1.50	225	1/2-13x3.00
W176-32-32-U	2.00	3.06	4.33	1.688	3.062	2.50	2.406	2.00	2.490	2.500	.531	–	3.81	2.28	1.656	.075	2.00	228	1/2-13x3.50

Part Numbers with "U" Suffix include Bolt Kit and O'Ring



4 BOLT FLANGE FITTINGS

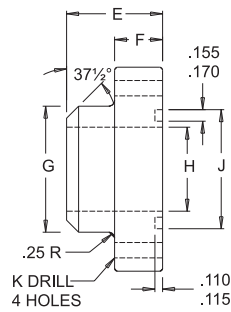


Figure 1

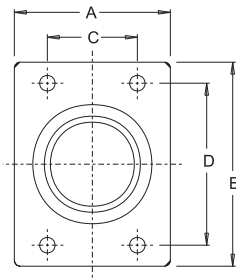


Figure 2

Refer to page 77 for
metric mounting options

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Pipe O.D.	H Pipe I.D.	J Min	J Max	K Drill Dia.	K Tap UN-2B	Mounting Hardware			
																O'Ring	SHCS		
CODE 61				BUTT WELD-SCHED 40 PIPE															
W35-12-U	W34-12	.75	.75	1.69	2.56	.875	1.875	1.185	.625	1.050	.82	1.250	1.255	.406	3/8-16	214	3/8-16 x 1.25		
W35-16-U	W34-16	1.00	1.00	1.94	2.75	1.031	2.062	1.250	.56	1.315	1.04	1.560	1.565	.406	3/8-16	219	3/8-16 x 1.25		
W35-20-U	W34-20	1.25	1.25	2.19	3.12	1.188	2.312	1.440	.62	1.660	1.38	1.750	1.755	.469	7/16-14	222	7/16-14 x 1.50		
W35-24-U	W34-24	1.50	1.50	2.56	3.69	1.406	2.750	1.750	.81	1.900	1.61	2.115	2.125	.531	1/2-13	225	1/2-13 x 1.75		
W35-32-U	W34-32	2.00	2.00	3.06	4.00	1.688	3.062	2.000	1.06	2.375	2.06	2.490	2.500	.531	1/2-13	228	1/2-13 x 2.00		
W35-40-U	W34-40	2.50	2.50	3.56	4.50	2.000	3.500	2.310	1.12	2.875	2.46	2.995	3.005	.531	1/2-13	232	1/2-13 x 2.00		
W35-48-U*	W34-48 *	3.00	3.00	4.19	5.31	2.438	4.188	2.750	1.62	3.500	3.06	3.615	3.625	.656	5/8-11	237	5/8-11 x 2.75		

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Pipe O.D.	H Pipe I.D.	J Min	J Max	K Drill Dia.	K Tap UN-2B	Mounting Hardware	
O'RingSHCS																	
CODE 61				BUTT WELD-SCHED 80 PIPE													
W24-12-U	W23-12	.75	.75	1.69	2.56	.875	1.875	1.185	.625	1.050	.742	1.250	1.255	.406	3/8-16	214	3/8-16 x 1.25
W24-16-U	W23-16	1.00	1.00	1.94	2.75	1.031	2.062	1.250	.56	1.315	.957	1.560	1.565	.406	3/8-16	219	3/8-16 x 1.25
W24-20-U	W23-20	1.25	1.25	2.19	3.12	1.188	2.312	1.440	.62	1.660	1.278	1.750	1.755	.469	7/16-14	222	7/16-14 x 1.50
W24-24-U	W23-24	1.50	1.50	2.56	3.69	1.406	2.750	1.750	.81	1.900	1.500	2.115	2.125	.531	1/2-13	225	1/2-13 x 1.75
W24-32-U	W23-32	2.00	2.00	3.06	4.00	1.688	3.062	2.000	1.06	2.375	1.939	2.490	2.500	.531	1/2-13	228	1/2-13 x 2.00
W24-40-U	W23-40	2.50	2.50	3.56	4.50	2.000	3.500	2.310	1.12	2.875	2.323	2.995	3.005	.531	1/2-13	232	1/2-13 x 2.00
W24-48-U*	W23-48 *	3.00	3.00	4.19	5.31	2.438	4.188	2.750	1.62	3.500	2.900	3.615	3.625	.656	5/8-11	237	5/8-11 x 2.75

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Pipe O.D.	H Pipe I.D.	J Min	J Max	K Drill Dia.	K Tap UN-2B	Mounting Hardware	
																O'Ring	SHCS
CODE 61				BUTT WELD-SCHED 160 PIPE													
W27-12-U	W25-12	.75	.75	1.69	2.56	.875	1.875	1.185	.625	1.050	.614	1.250	1.255	.406	3/8-16	214	3/8-16 x 1.25
W27-16-U	W25-16	1.00	1.00	1.94	2.75	1.031	2.062	1.250	.560	1.315	.815	1.560	1.565	.406	3/8-16	219	3/8-16 x 1.25
W27-20-U	W25-20	1.25	1.25	2.19	3.12	1.188	2.312	1.440	.620	1.660	1.160	1.750	1.755	.469	7/16-14	222	7/16-14 x 1.50
W27-24-U	W25-24	1.50	1.50	2.56	3.69	1.406	2.750	1.750	.810	1.900	1.337	2.115	2.125	.531	1/2-13	225	1/2-13 x 1.75
W27-32-U	W25-32	2.00	2.00	3.06	4.00	1.688	3.062	2.000	1.06	2.375	1.689	2.490	2.500	.531	1/2-13	228	1/2-13 x 2.00
W27-40-U	W25-40	2.50	2.50	3.56	4.50	2.000	3.500	2.310	1.12	2.875	2.125	2.995	3.005	.531	1/2-13	232	1/2-13 x 2.00
W27-48-U*	W25-48 *	3.00	3.00	4.19	5.31	2.438	4.188	2.750	1.62	3.500	2.624	3.615	3.625	.656	5/8-11	237	5/8-11 x 2.75

*note-bar stock material Part Numbers with "U" Suffix include Bolt Kit and O'Ring



4 BOLT FLANGE FITTINGS

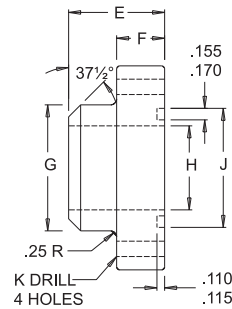
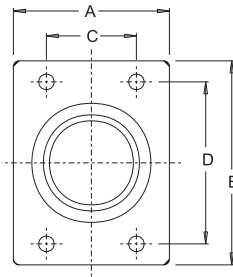


Figure 1



Refer to page 77 for
metric mounting options

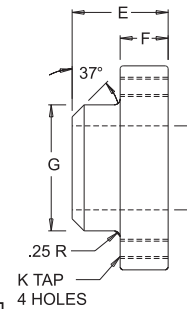


Figure 2

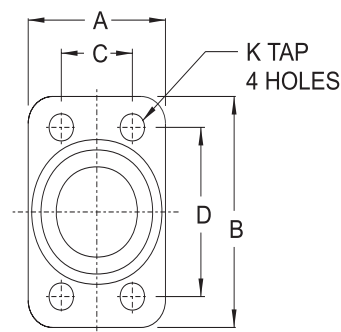
O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Pipe O.D.	H Pipe I.D.	J Min	J Max	K Drill Dia.	K Tap UNC-2B	Mounting Hardware	
																O'Ring	SHCS
CODE 62 BUTT WELD-SCHED 80 PIPE																	
W28-12-U	—	.75	.75	1.94	2.81	.937	2.000	1.42	0.83	1.050	0.742	1.250	1.255	0.406	3/8-16	214	3/8-16 x 1.50
W28-16-U	—	1.00	1.00	2.18	3.19	1.093	2.250	1.61	0.83	1.315	0.957	1.560	1.565	0.469	7/16-14	219	7/16-14 x 1.50
W28-20-U	—	1.25	1.25	2.44	3.75	1.250	2.625	1.73	0.94	1.660	1.278	1.750	1.755	0.531	1/2-13	222	1/2-13 x 2.00
W28-24-U	—	1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	1.900	1.500	2.115	2.125	0.656	5/8-11	225	5/8-11 x 2.25
W28-32-U	—	2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.375	1.939	2.490	2.500	0.781	3/4-10	228	3/4-10 x 2.75
W28-40-U*	—	2.50	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.875	2.323	2.995	3.005	0.940	7/8-9	232	7/8-9 x 3.00
W28-48-U*	—	3.00	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.500	2.900	3.615	3.625	1.190	1 1/8-7	237	1 1/8-7 x 4.00

Part Numbers with "U" Suffix include Bolt Kit and O'Ring

O'Ring Part No. Fig. 1	Flat Face Part No. Fig. 2	Pipe Size	Pad Size	A	B	C	D	E	F	G Pipe O.D.	H Pipe I.D.	J Min	J Max	K Drill Dia.	K Tap UNC-2B	Mounting Hardware	
																O'Ring	SHCS
CODE 62 BUTT WELD-SCHED 160 PIPE																	
—	W29-12	0.75	0.75	1.94	2.81	0.937	2.000	1.42	0.83	1.050	0.614	1.250	1.255	.406	3/8-16	214	3/8-16 x 1.50
—	W29-16	1.00	1.00	2.18	3.19	1.093	2.250	1.61	0.83	1.315	0.815	1.560	1.565	.469	7/16-14	219	7/16-14 x 1.50
—	W29-20	1.25	1.25	2.44	3.75	1.250	2.625	1.73	0.94	1.660	1.160	1.750	1.755	.531	1/2-13	222	1/2-13 x 2.00
—	W29-24	1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	1.900	1.337	2.115	2.125	.656	5/8-11	225	5/8-11 x 2.25
—	W29-32	2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.375	1.689	2.490	2.500	.781	3/4-10	228	3/4-10 x 2.75
—	W29-40*	2.50	2.50	5.00	6.88	2.312	4.875	2.37	1.50	2.875	2.125	2.995	3.005	.940	7/8-9	232	7/8-9 x 3.00
—	W29-48*	3.00	3.00	6.00	8.50	2.812	6.000	2.96	2.00	3.500	2.624	3.615	3.625	1.190	1 1/8-7	237	1 1/8-7 x 4.00

*note-bar stock material

Part No. Fig. 1	Pad Size	A	B	C	D	E	F	G	H	J	K Tap UNC-2B
CODE 61 3000 PSI TANK PILOT											
W22-12	.75	1.69	2.56	.875	1.875	1.18	.62	1.375	.75	1.06	3/8-16
W22-16	1.00	1.94	2.75	1.031	2.062	1.25	.56	1.500	1.00	1.12	3/8-16
W22-20	1.25	2.19	3.12	1.188	2.312	1.44	.62	1.750	1.25	1.20	7/16-14
W22-24	1.50	2.56	3.69	1.406	2.750	1.75	.81	2.125	1.50	1.62	1/2-13
W22-32	2.00	3.06	4.00	1.688	3.062	2.00	1.06	2.500	2.00	1.88	1/2-13
W22-40	2.50	3.56	4.50	2.000	3.500	2.31	1.12	3.250	2.50	2.19	1/2-13



Refer to page 77 for
metric mounting options

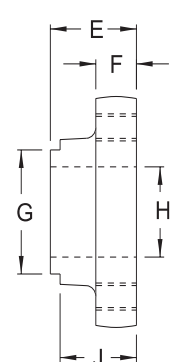


Figure 1