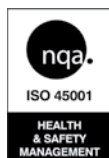
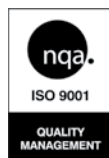


**ANCHOR
FLUID POWER**

SELECTION GUIDE

SAE HYDRAULIC 4-BOLT AND SPLIT FLANGE FITTINGS

IN CARBON STEEL AND STAINLESS STEEL



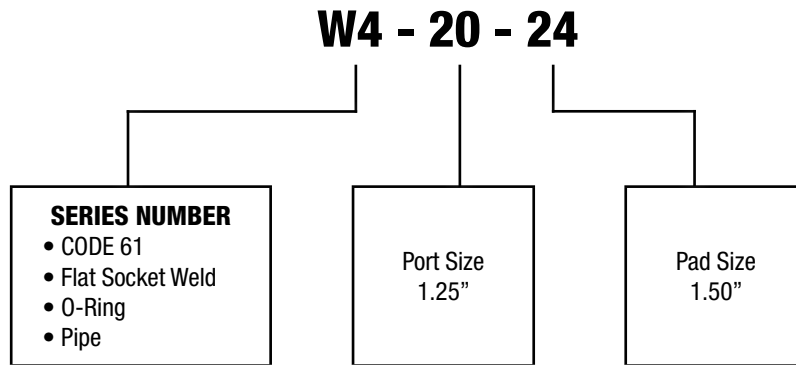
866-FLANGES | 513.527.4444 | Fax 513.527.4449

sales@anchorfluidpower.com | anchorfluidpower.com

QUICK SELECTION GUIDE
SAE HYDRAULIC 4 BOLT AND SPLIT FLANGED FITTINGS

Ordering System

Our basic part numbering system is easy to use. The explanation of our part numbering system is detailed below. The series number provides the greatest amount of information pertaining to the flange product. The port size and pad size simply refer to size only, with all sizes based on 1/16 of an inch.



NOTE #1 - All items available with mounting kit by simply adding suffix letter “U” to the W series and the letter “O” to our split flange series. Example: W4-20-24U & 16SFXO would include all appropriate hardware.

NOTE #2 - All items available in stainless steel material by simply adding the suffix letters “SS”. Stainless steel flanges may vary in shape and/or design from carbon steel flanges. Please consult factory for dimensions.

CODE 61 METRIC MOUNTING OPTION	
PAD SIZE	METRIC TAPPED BOLT HOLES
8	M8 X 1.25
12	M10 X 1.50
16	M10 X 1.50
20	M10 X 1.50
24	M12 X 1.75
32	M12 X 1.75
40	M12 X 1.75
48	M16 X 2.00
56	M16 X 2.00
64	M16 X 2.00

We offer the quality that you have come to expect from Anchor Fluid Power with prompt delivery on these special requirements.

CODE 62 METRIC MOUNTING OPTION	
PAD SIZE	METRIC TAPPED BOLT HOLES
8	M8 X 1.25
12	M10 X 1.50
16	M12 X 1.75
20	M12 X 1.75
24	M16 X 2.00
32	M20 X 2.50
40	M24 X 3.00
48	M30 X 3.50

Due to the infinite number of flange combinations, materials and finishes available, we make no attempt to catalog all of the items we stock or have the capability to manufacture. Instead, we catalog only our most popular standard flanges.

Please contact us for your special requirements.

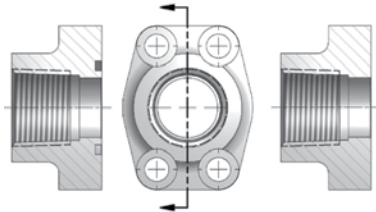


DASH NUMBER	NOMINAL SIZE	SIZE OF PORT IN FLANGE			
		THREAD OR SOCKET SPECIFICATION			
		NPTF	SAE ST. THD.	PIPE SOC.	TUBE SOC.
-04	1/4	1/4-18	7/16-20	.565	.252
-06	3/8	3/8-18	9/16-18	.687	.377
-08	1/2	1/2-14	3/4-16	.855	.502
-12	3/4	3/4-14	1 1/16-12	1.062	.752
-16	1	1-11 1/2	1 5/16-12	1.328	1.002
-20	1 1/4	1 1/4-11 1/2	1 5/8-12	1.672	1.252
-24	1 1/2	1 1/2-11 1/2	1 7/8-12	1.922	1.502
-32	2	2-11 1/2	2 1/2-12	2.406	2.002
-40	2 1/2	2 1/2-8	3-12	2.906	2.502
-48	3	3-8	3 1/2-12	3.547	3.002
-56	3 1/2	3 1/2-8	NA	4.047	3.502
-64	4	4-8	4 1/2-12	4.578	4.002
-80	5	NA	NA	5.641	5.002

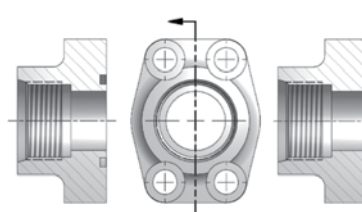
W-Series



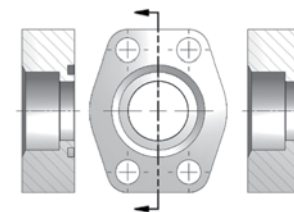
Note- All dimensions are in inches.



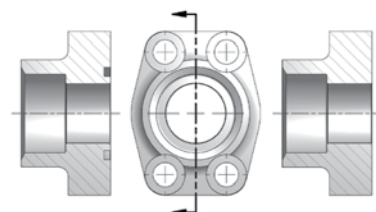
NPTF THREAD		
O-RING	PRESSURE RATING	FLAT FACE
W43	CODE 61	W104
W44	CODE 62	W45



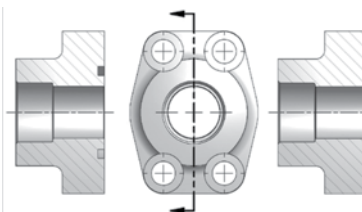
SAE STRAIGHT THREAD		
O-RING	PRESSURE RATING	FLAT FACE
W46	CODE 61	W106
W48	CODE 62	W49



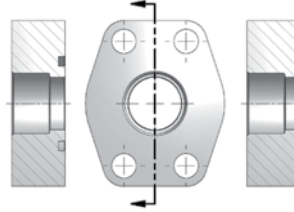
FLAT SOCKET WELD PIPE		
O-RING	PRESSURE RATING	FLAT FACE
W4	CODE 61	W61
W59	CODE 62	W60
W72	CODE 61	W91



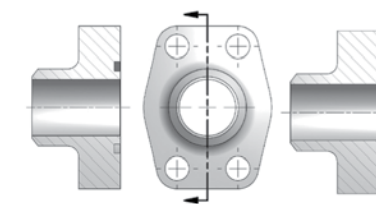
DEEP SOCKET WELD PIPE		
O-RING	PRESSURE RATING	FLAT FACE
W31	CODE 61	W3
W81	CODE 62	W80



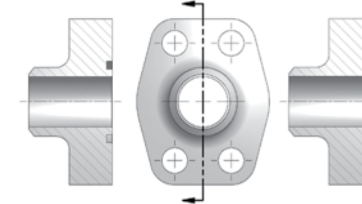
DEEP SOCKET WELD TUBE		
O-RING	PRESSURE RATING	FLAT FACE
W51	CODE 61	W5
W83	CODE 62	W82



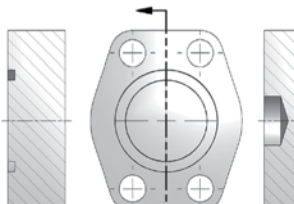
FLAT SOCKET WELD TUBE		
O-RING	PRESSURE RATING	FLAT FACE
W6	CODE 61	W62
W58	CODE 62	W63
W71	CODE 61	W90



BUTT WELD CODE 61		
O-RING	PRESSURE RATING	FLAT FACE
W35	SCH.40	W34
W24	SCH.80	W23
W27	SCH.160	W25

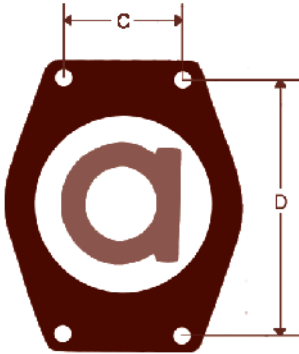


BUTT WELD CODE 62		
O-RING	PRESSURE RATING	FLAT FACE
W28	SCH.80	W26
W30	SCH.160	W29
W33	SCH.XXS	W32

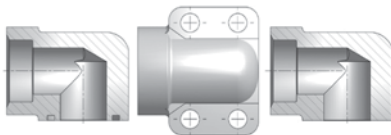


BLANKING		
O-RING	PRESSURE RATING	FLAT FACE
W36	CODE 61	W37
W38	CODE 62	W39

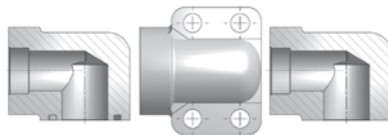
W-Series



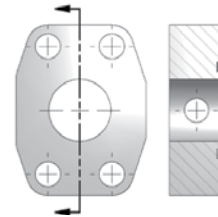
BASIC FLANGE PAD							
DASH NUMBER	NOMINAL SIZE	CODE 61			CODE 62		
		BOLT CENTERS		THREAD	BOLT CENTERS		THREAD
		DIM C	DIM D		DIM C	DIM D	
-08	1/2	.688	1.500	5/16-18	.718	1.594	5/16-18
-12	3/4	.875	1.875	3/8-16	.937	2.000	3/8-16
-16	1	1.031	2.062	3/8-16	1.093	2.250	7/16-14
-20	1 1/4	1.188	2.312	7/16-14	1.250	2.625	1/2-13
-24	1 1/2	1.406	2.750	1/2-13	1.437	3.125	5/8-11
-32	2	1.688	3.062	1/2-13	1.750	3.812	3/4-10
-40	2 1/2	2.000	3.500	1/2-13	2.311	4.874	7/8-9
-48	3	2.438	4.188	5/8-11	2.811	6.000	1 1/8-7
-56	3 1/2	2.750	4.750	5/8-11	NA	NA	NA
-64	4	3.062	5.125	5/8-11	NA	NA	NA
-80	5	3.625	6.000	5/8-11	NA	NA	NA



SOCKET WELD PIPE ELBOW		
O-RING	PRESSURE RATING	FLAT FACE
W176	CODE 61	W169
W186	CODE 62	W189

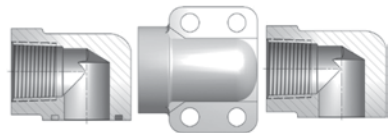


SOCKET WELD TUBE ELBOW		
O-RING	PRESSURE RATING	FLAT FACE
W172	CODE 61	W177
W182	CODE 62	W187

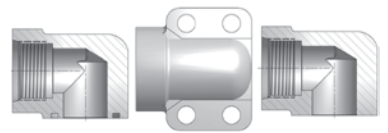


GAUGE PORT SPACER BLOCK	
O-RING	PRESSURE RATING
AS-GP	CODE 61
ASX-GP	CODE 62

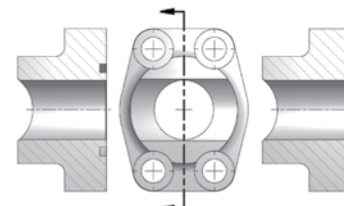
Flanges include both 1/4" NPTF & #4 SAE ports.



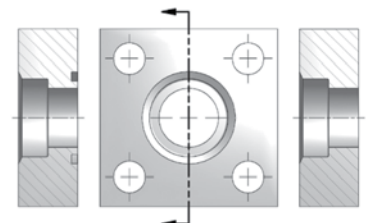
NPTF THREAD ELBOW		
O-RING	PRESSURE RATING	FLAT FACE
W168	CODE 61	W170
W188	CODE 62	W180



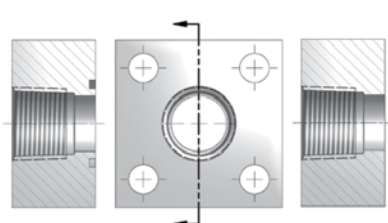
SAE STRAIGHT THREAD ELBOW		
O-RING	PRESSURE RATING	FLAT FACE
W164	CODE 61	W165
W184	CODE 62	W185



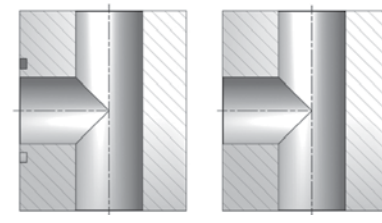
SADDLE WELD		
O-RING	PIPE/TUBE	FLAT FACE
W8	PIPE	W7
W87	TUBE	W69



SQUARE PATTERN SOCKET WELD		
O-RING	PRESSURE RATING	FLAT FACE
W66	3000 PSI	W76
W56	6000 PSI	W57

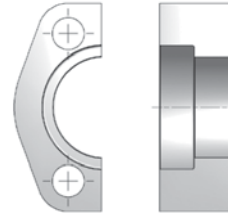
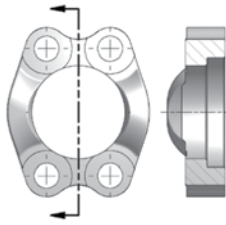


SQUARE PATTERN NPTF THREAD		
O-RING	PRESSURE RATING	FLAT FACE
W65	3000 PSI	W75



TEE JUNCTION BLOCK		
O-RING	PRESSURE RATING	FLAT FACE
W17	CODE 61	W16
W19	CODE 62	W18

SPLIT & CAPTIVE FLANGES



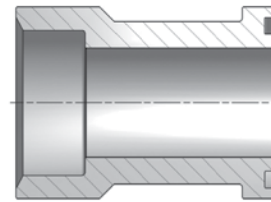
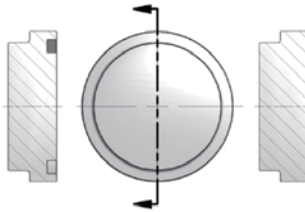
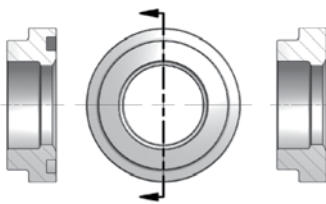
SAE J518 SPLIT FLANGE		
HALF ONLY	PRESSURE RATING	KIT FORM
SF-2	CODE 61	*SF0
SFX-2	CODE 62	*SFX0

SAE J518 CAPTIVE FLANGE		
DRILLED BOLT HOLES	PRESSURE RATING	THREAD BOLT HOLES
SFW	CODE 61	SFTW
SFXW	CODE 62	SFXTW

CAT STYLE SPLIT FLANGE	
HALF ONLY	KIT FORM
PTX-2	*PTX0
NO O-RING INCLUDED IN THIS SERIES KIT	

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

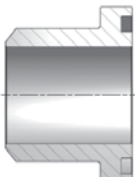
FLANGED HEAD FITTINGS



TUBE FLANGE HEAD FITTING		
O-RING	PRESSURE RATING	FLAT FACE
T-SF	CODE 61	T-SFN
T-SFX	CODE 62	T-SFXN

FLANGE PLUG		
O-RING	PRESSURE RATING	FLAT FACE
FOP	CODE 61	FP
FOPX	CODE 62	FPX

SOCKET WELD TO FLANGE HEAD		
PIPE	PRESSURE RATING	TUBE
P-WSF	CODE 61	T-WSF
W53	CODE 62	W54

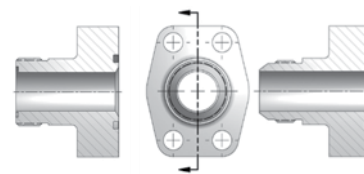
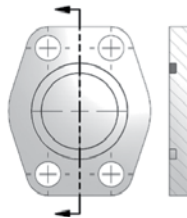
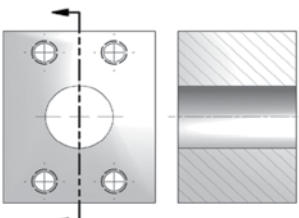


BUTT WELD TO FLANGE HEAD		
O-RING	PRESSURE RATING	FLAT FACE
P-BWSF	CODE 61	P-BWSFN
P-BWSFX	CODE 62	P-BWSFXN



Available for the following schedules of pipe:
Code 61 - 40, 80, 160 Code 62 - 80, 160, XXS

FLANGE PRODUCTS



CONNECTOR BLOCKS	
FLAT FACE	PRESSURE RATING
ACB	CODE 61
ACBX	CODE 62

SHIPPING PLATES (0 PSI)	
O-RING & FLAT FACE	PRESSURE RATING
SP	CODE 61
SPX	CODE 62

MALE THREAD		
ORFS	PRESSURE RATING	JIC
W304	CODE 61	W300
W604	CODE 62	W600

OFF-THE-SHELF AVAILABILITY. ENGINEERED FOR PERFORMANCE.



Anchor's broad range of hydraulic flange configurations provides design engineers and shop assembly personnel with total flexibility in the plumbing of hydraulic systems. Our wide variety of standard configurations are available OFF-THE-SHELF to meet today's reduced lead time requirements.

Anchor's commitment to quality continues to grow while serving today's global market. State-of-the-art equipment, together with full implementation of SPC manufacturing procedures, ensures the highest, most consistent quality throughout the entire product line.

Competitive pricing has long been a trademark of Anchor Fluid Power. This commitment to value continues on our complete line of hydraulic flanges. For our detailed catalog containing specifications on more than 1,200 sizes and configurations call, fax, or visit us on the web at www.anchorfluidpower.com.



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**TEST POINT
ADAPTERS
& HOSES**

2



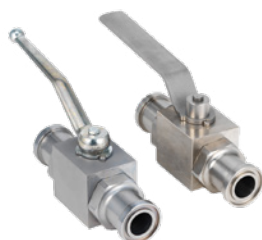
**FLOW CONTROL
NEEDLE &
CHECK VALVES**

6



**HYDRAULIC
BALL VALVES**

18



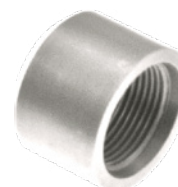
**QUICK
COUPLINGS**

54



**WELD
COUPLINGS**

62



**SUCTION
& RETURN**

72



FLANGES

80



TEST POINT ADAPTERS & HOSES



Piston Test Points	4
Direct Pressure Gauge Adapter	4
Hose to Hose Connector	5
Test Hoses	5
Test Point Kit	5

TEST POINT ADAPTER SPECIFICATIONS

Media Compatibility

Hydraulic oils and mineral based fluids. Check compatibility with the seal material.

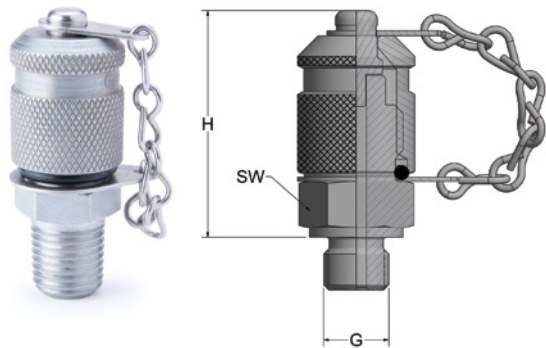
Materials

- Metal components: Zinc nickel (CrVI free) plated carbon steel
Natural finish stainless steel
- Seals: Buna -20°C to +100°C (-4°F to +212°F)
Viton -20°C to +200°C (-4°F to +392°F)
- Hose: Polyamide -35°C to +100°C (-31°F to +212°F)

Pressure

Maximum working pressure of test point fittings is 9000 PSI based upon a 4:1 safety factor, connection under pressure up to 5800 PSI. For adapters connection to test point components, please refer to the corresponding adapter manufacturer.

TPPM SERIES M16 x 2 Piston Test Points



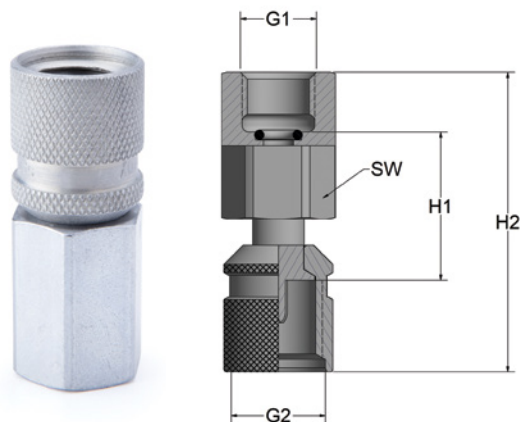
CARBON STEEL – ZINC NICKEL PLATED, BUNA						
PART NUMBER	MAX PSI	MATERIAL	SEAL MATERIAL	H	SW	THREAD G
TPPM1620CBN1/8	9000	ZINC NICKEL PLATED C/S	BUNA	1.42	0.67	1/8 NPT
TPPM1620CBN1/4	9000	ZINC NICKEL PLATED C/S	BUNA	1.38	0.67	1/4 NPT
TPPM1620CBN3/8	9000	ZINC NICKEL PLATED C/S	BUNA	1.42	0.75	3/8 NPT
TPPM1620CBS#4	9000	ZINC NICKEL PLATED C/S	BUNA	1.50	0.67	7/16-20 UNF
TPPM1620CBS#6	9000	ZINC NICKEL PLATED C/S	BUNA	1.50	0.75	9/16-18 UNF
TPPM1620CBM10	9000	ZINC NICKEL PLATED C/S	BUNA	1.50	0.67	M10 X 1.25
TPPM1620CBM12	9000	ZINC NICKEL PLATED C/S	BUNA	1.54	0.67	M12 X 1.5
TPPM1620CBM14	9000	ZINC NICKEL PLATED C/S	BUNA	1.46	0.75	M14 X 1.5
TPPM1620CBB#2	9000	ZINC NICKEL PLATED C/S	BUNA	1.54	0.67	ISO 228-G 1/8
TPPM1620CBB#4	9000	ZINC NICKEL PLATED C/S	BUNA	1.46	0.75	ISO 228-G 1/4
TPPM1620CBB#6	9000	ZINC NICKEL PLATED C/S	BUNA	1.46	0.87	ISO 228-G 3/8

CARBON STEEL – ZINC NICKEL PLATED, VITON						
PART NUMBER	MAX PSI	MATERIAL	SEAL MATERIAL	H	SW	THREAD G
TPPM1620CVN1/8	9000	ZINC NICKEL PLATED C/S	VITON	1.42	0.67	1/8 NPT
TPPM1620CVN1/4	9000	ZINC NICKEL PLATED C/S	VITON	1.38	0.67	1/4 NPT
TPPM1620CVS#4	9000	ZINC NICKEL PLATED C/S	VITON	1.50	0.67	7/16-20 UNF
TPPM1620CVS#6	9000	ZINC NICKEL PLATED C/S	VITON	1.50	0.75	9/16-18 UNF
TPPM1620CVB#4	9000	ZINC NICKEL PLATED C/S	VITON	1.46	0.75	ISO 228-G 1/4

STAINLESS STEEL, VITON						
PART NUMBER	MAX PSI	MATERIAL	SEAL MATERIAL	H	SW	THREAD G
TPPM1620SVN1/4	9000	S/S	VITON	1.38	0.67	1/4 NPT
TPPM1620SVS#4	9000	S/S	VITON	1.50	0.67	7/16-20 UNF

Additional connection types available upon request.

PGAM SERIES M16 x 2 Direct Pressure Gauge Adapter



CARBON STEEL – ZINC NICKEL PLATED, BUNA							
PART NUMBER	MATERIAL	SEAL MATERIAL	SW	H1	H2	THREAD G1	THREAD G2
PGAM1620CBB#4	ZINC NICKEL PLATED C/S	BUNA	0.75	1.06	2.13	ISO 228-G 1/4	M16 X 2
PGAM1620CBN1/4	ZINC NICKEL PLATED C/S	BUNA	0.75	-	2.09	1/4 NPT	M16 X 2
PGAM1620CBS#4	ZINC NICKEL PLATED C/S	BUNA	0.87	-	2.10	7/16-20 UNF	M16 X 2

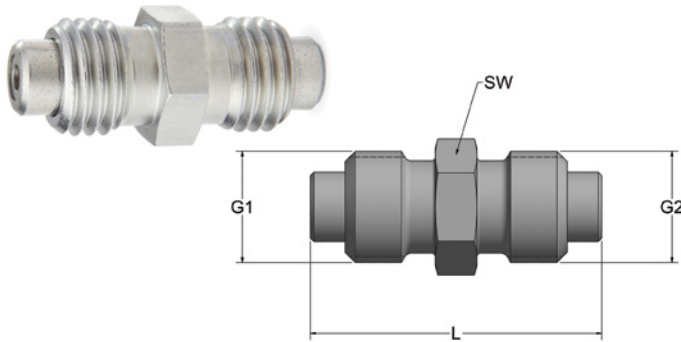
CARBON STEEL – ZINC NICKEL PLATED, VITON							
PART NUMBER	MATERIAL	SEAL MATERIAL	SW	H1	H2	THREAD G1	THREAD G2
PGAM1620CVN1/4	ZINC NICKEL PLATED C/S	VITON	0.75	-	2.09	1/4 NPT	M16 X 2
PGAM1620CVS#4	ZINC NICKEL PLATED C/S	VITON	0.87	-	2.10	7/16-20 UNF	M16 X 2

STAINLESS STEEL, VITON							
PART NUMBER	MATERIAL	SEAL MATERIAL	SW	H1	H2	THREAD G1	THREAD G2
PGAM1620SVN1/4	S/S	VITON	0.75	-	2.09	1/4 NPT	M16 X 2
PGAM1620SVS#4	S/S	VITON	0.87	-	2.10	7/16-20 UNF	M16 X 2

Additional connection types available upon request.

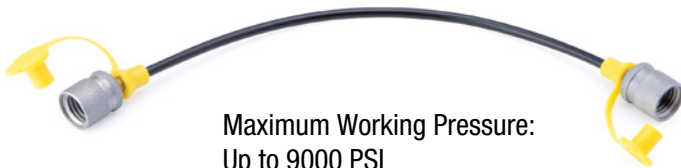


HCM SERIES Hose to Hose Connector



CARBON STEEL				
PART NUMBER	THREAD G1	THREAD G2	L	SW
HCM1620C	M16 X 2	M16 X 2	1.65	0.67

THM SERIES M16 x 2 Test Hoses



Maximum Working Pressure:
Up to 9000 PSI

Pressure/Temperature Factor:
100% at 20°C
95% at 40°C
90% at 60°C
80% at 80°C
70% at 100°C

CARBON STEEL, ZINC NICKEL PLATED				
PART NUMBER	MATERIAL	L (INCHES)	THREAD G1	THREAD G2
THM1620C-8	ZINC NICKEL PLATED C/S	8	M16 X 2	M16 X 2
THM1620C-12	ZINC NICKEL PLATED C/S	12	M16 X 2	M16 X 2
THM1620C-16	ZINC NICKEL PLATED C/S	16	M16 X 2	M16 X 2
THM1620C-25	ZINC NICKEL PLATED C/S	25	M16 X 2	M16 X 2
THM1620C-31	ZINC NICKEL PLATED C/S	31	M16 X 2	M16 X 2
THM1620C-39	ZINC NICKEL PLATED C/S	39	M16 X 2	M16 X 2

STAINLESS STEEL				
PART NUMBER	MATERIAL	L (INCHES)	THREAD G1	THREAD G2
THM1620S-16	S/S	16	M16 X 2	M16 X 2
THM1620S-31	S/S	31	M16 X 2	M16 X 2

Additional hose lengths and connection types available upon request.

Test Point Kit TPK-1001



Includes:

- (1) ¼" NPT, 3000 PSI pressure gauge
- (1) ¼" NPT, 10000 PSI pressure gauge
- (1) 79" test hose
- (1) 12" test hose
- (1) M16 X M16 hose to hose adapter
- (1) ¼" NPT Direct Pressure Gauge Adapter
- (1) 7/16-20 UNF SAE thread Direct Pressure Gauge Adapter
- (2) ¼" NPT test point – TPPM1620CBN1/4
- (1) 7/16-20 UNF SAE test point – TPPM1620CBS#4
- (1) 9/16-18 UNF SAE test point – TPPM1620CBS#6

*Image not shown with all components listed.

FLOW CONTROL NEEDLE & CHECK VALVES



Carbon Steel Check Valves	8
Stainless Steel Check Valves	10
Carbon Steel Flow Control Valves	12
Carbon Steel Needle Valves	14
Carbon Steel Gauge Shutoff Valves	16

TEST POINT
ADAPTERS

INLINE
VALVES

BALL
VALVES

QUICK
COUPLINGS

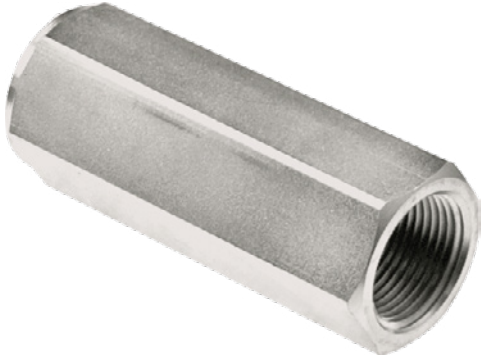
WELD
COUPLINGS

SUCTION
AND RETURN

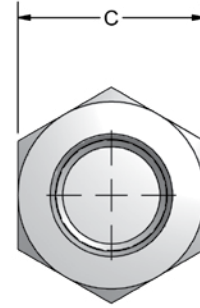
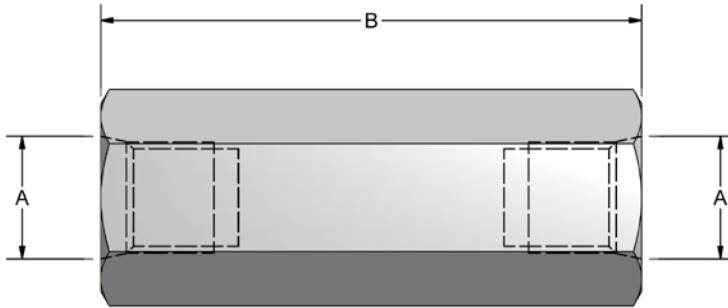
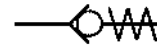
C/S
FLANGES

S/S
FLANGES

Check Valves - Carbon Steel



- NPTF & SAE Connections
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Available in 7 PSI & 65 PSI Spring Cracking Pressures
- Metal to Metal Seat
- Hardened Poppet
- Temperature Range -4°F to +176°F



NPTF CHECK VALVES				
A	B	C	MAX PSI	MAX FLOW GPM
1/4"	.217	.75	5700	4
3/8"	2.68	.95	5700	8
1/2"	2.95	1.06	5700	13
3/4"	3.48	1.38	5700	23
1"	4.33	1.61	5000	40
1 1/4"	4.72	2.17	5000	50
1 1/2"	5.43	2.56	5000	80
2"	5.43	2.95	4500	110

SAE CHECK VALVES				
A	B	C	MAX PSI	MAX FLOW GPM
#4	2.17	0.75	5700	4
#6	2.28	0.75	5700	8
#8	2.72	.95	5700	13
#12	3.48	1.38	5700	23
#16	4.33	1.61	5000	40
#20	4.72	2.17	5000	50
#24	5.43	2.56	5000	80
#32	5.43	2.95	4500	110

Check Valves - Carbon Steel

Model Code Breakdown

C N 1/2 - 1 - 7

VALVE SERIES

THREAD TYPE

N	NPTF Pipe Thread
S#	SAE Straight Thread

THREAD SIZE

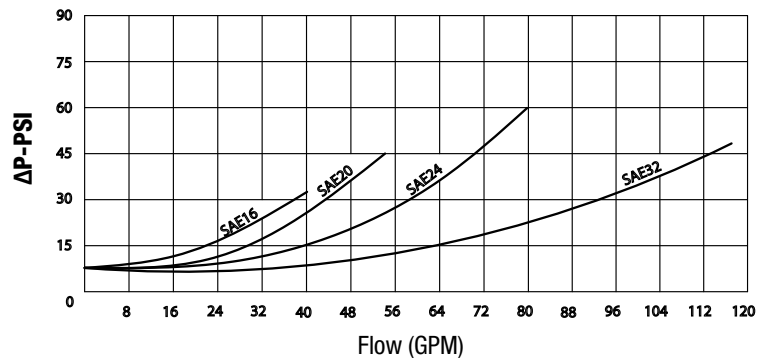
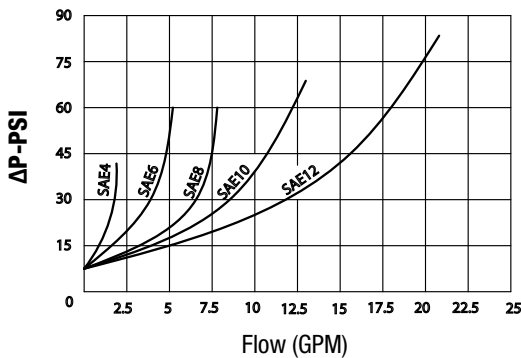
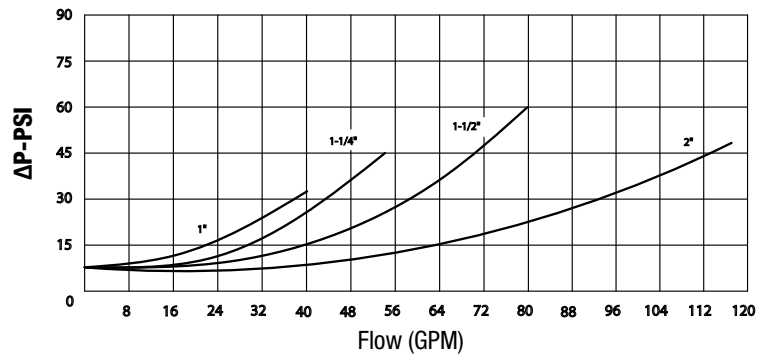
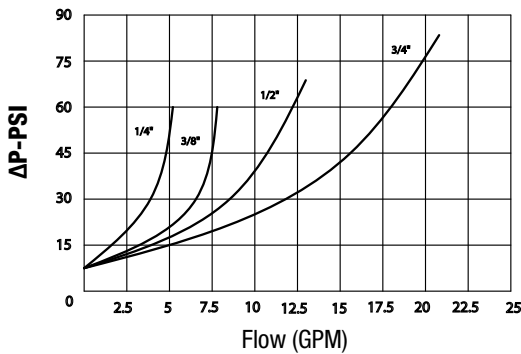
Example	N1/2
	S#8

CRACKING PRESSURE

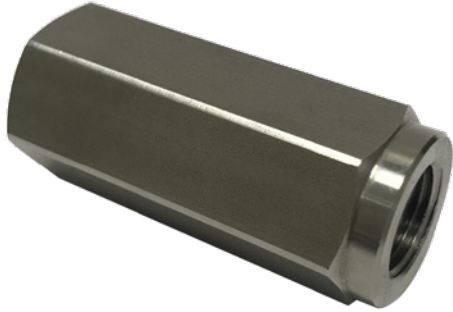
7	7 PSI
65	65 PSI

MATERIAL

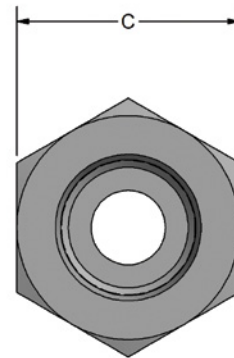
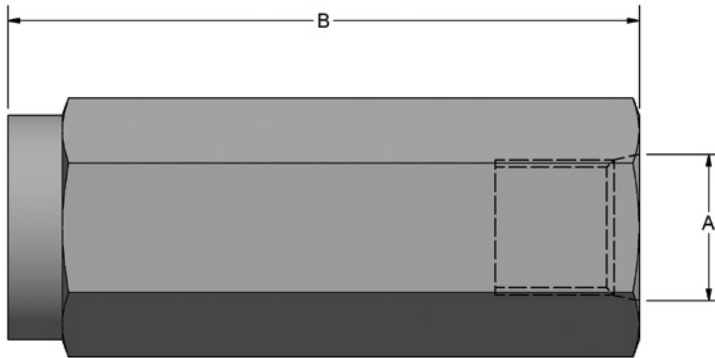
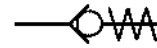
1	Carbon Steel
---	--------------



Check Valves - Stainless Steel



- NPTF & SAE Connections
- 316L stainless steel
- Metal to Metal Seat
- Temperature Range -22°F to +212°F



NPTF CHECK VALVES				
A	B	C	MAX PSI	MAX FLOW GPM
1/4"	2.28	0.75	5800	4
3/8"	2.72	0.95	5800	8
1/2"	2.95	1.06	5800	13
3/4"	3.48	1.38	5800	24
1"	4.33	1.61	5075	40
1 1/4"	4.72	2.17	5075	53
1 1/2"	5.43	2.36	5075	80
2"	5.43	2.95	5075	114

SAE CHECK VALVES				
A	B	C	MAX PSI	MAX FLOW GPM
#4	2.17	0.75	5800	4
#6	2.28	0.95	5800	8
#8	2.71	0.95	5800	13
#12	3.48	1.38	5800	24
#16	4.33	1.61	5075	40
#20	4.72	2.17	5075	53
#24	5.43	2.36	5075	80
#32	5.43	2.95	5075	114

Check Valves - Stainless Steel

Model Code Breakdown

C N 1/2 - 2 - 7

VALVE SERIES

THREAD TYPE

N	NPTF Pipe Thread
S#	SAE Straight Thread

THREAD SIZE

Example	N1/2
	S#8

CRACKING PRESSURE

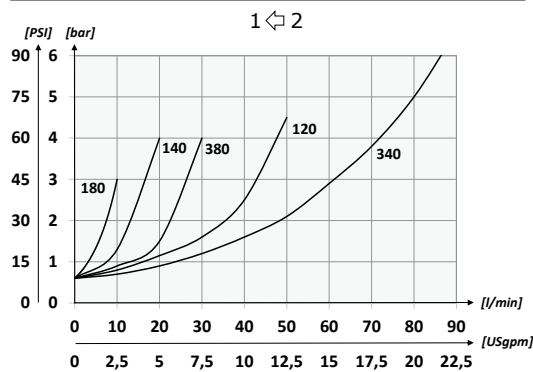
7	7 PSI
---	-------

MATERIAL

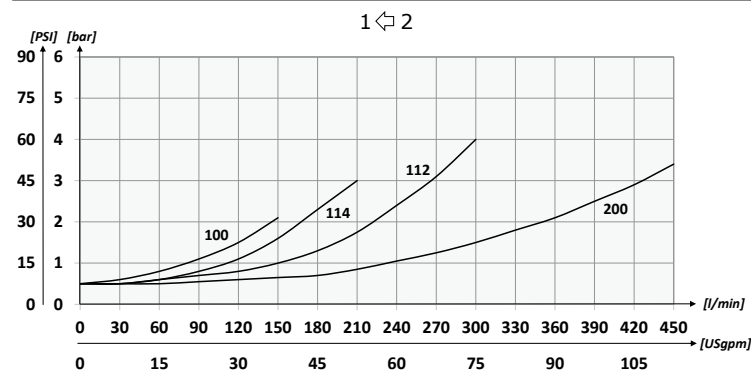
2	Stainless Steel
---	-----------------

PRESSURE DROPS

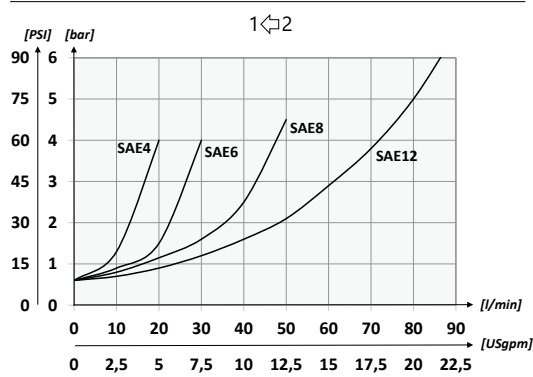
NPTF



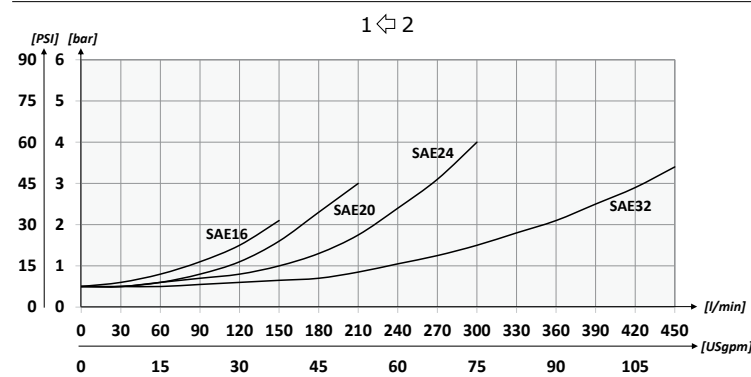
NPTF



SAE



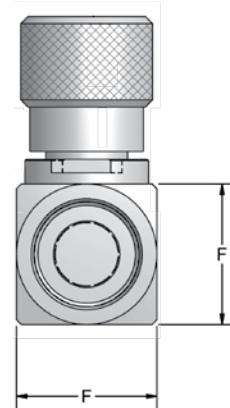
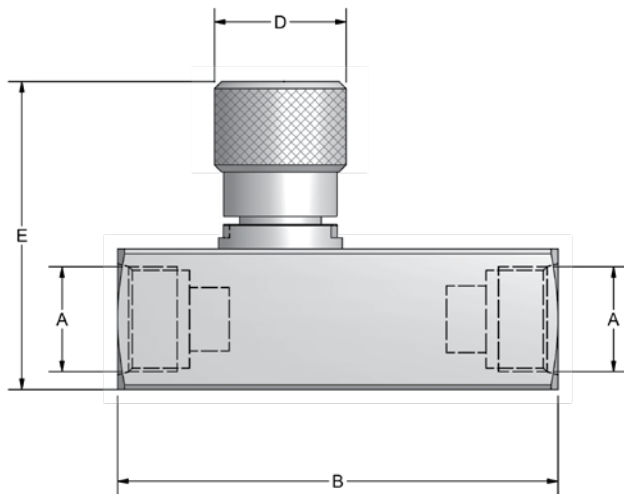
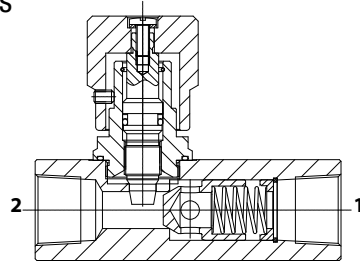
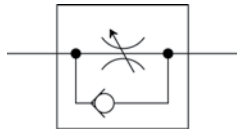
SAE



Flow Control Valves - Carbon Steel



- NPTF & SAE Connections
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Set Screw Allows Knob to be Locked into Position
- Graduated Knob & Spindle for Accurate Flow Control
- 7 PSI Standard Spring Setting
- Buna O-Ring / PTFE Stem Packing
- Temperature Range -4°F to +176°F
- These valves are for control of flow only. Not to be used as isolation or shut-off valves



FLOW CONTROL VALVES								
A		B	D	E	F	MAX PSI	MAX FLOW GPM	WEIGHT (LB)
NPTF	SAE							
1/4	#4	2.60	1.18	2.67	0.98	5700	4	0.83
3/8	#6	3.00	1.18	2.67	0.98	5700	8	0.86
1/2	#8	3.58	1.29	2.79	1.18	5700	13	1.4
3/4	#12	4.43	1.65	3.70	1.57	5700	21	3.0
1	#16	5.55	1.65	3.93	1.77	5700	40	4.2
1-1/4	#20	6.10	2.08	4.78	2.16	5000	50	7.0
1-1/2	#24	6.61	2.08	5.17	2.55	5000	80	10.0

Flow Control Valves - Carbon Steel

Model Code Breakdown

F N 1/2 - 1

Valve Series

Material

Thread Type

N	NPTF Pipe Thread
S#	SAE Straight Thread

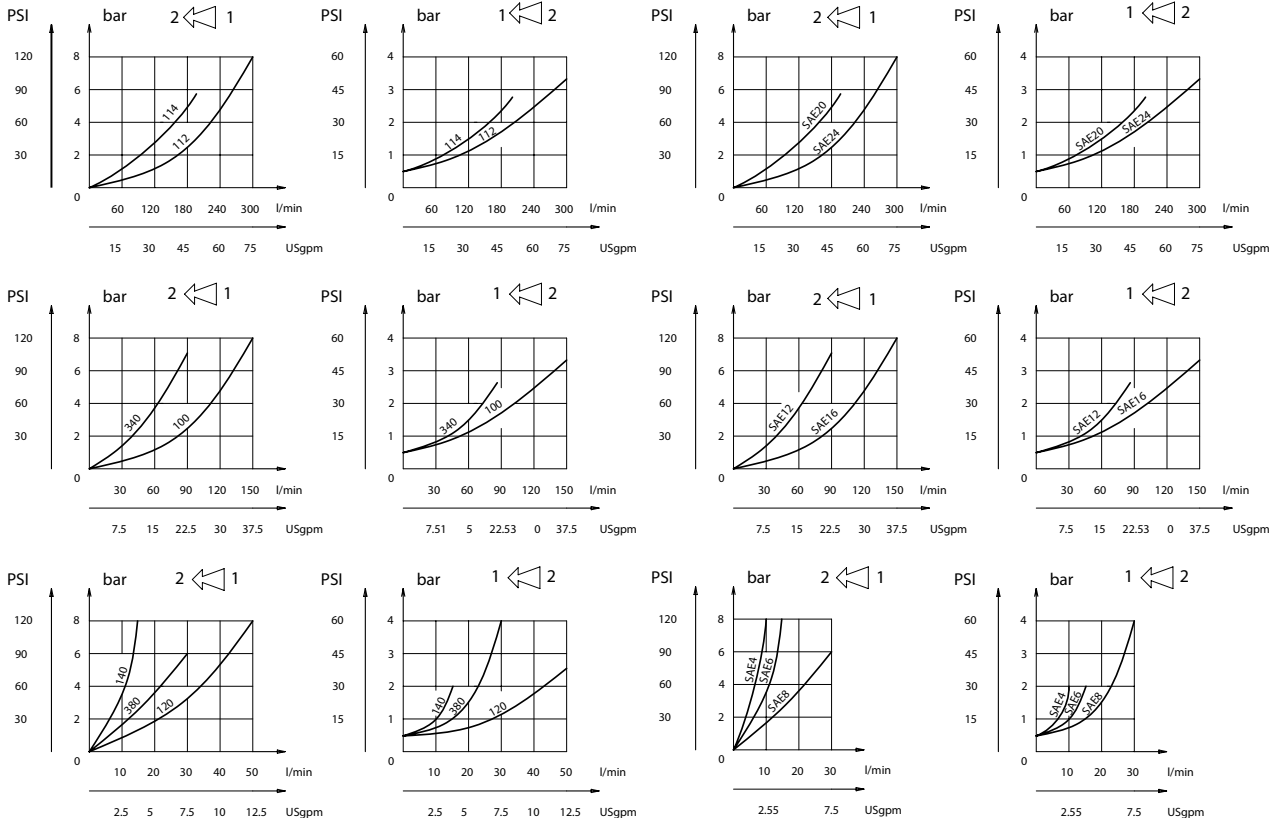
1	Carbon Steel
---	--------------

Thread Size

Example	N1/2
	S#8

NPTF

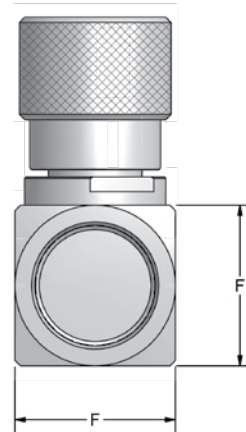
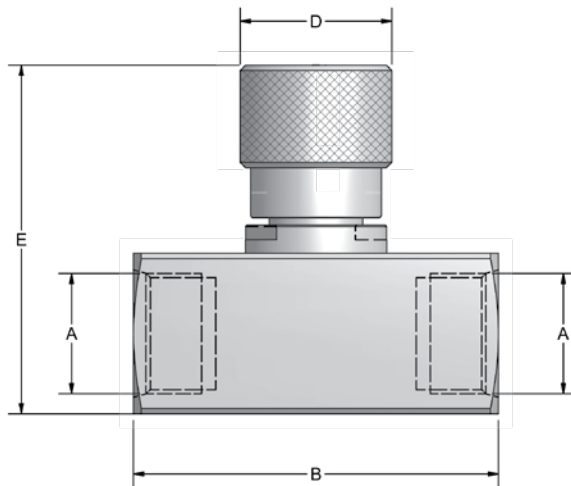
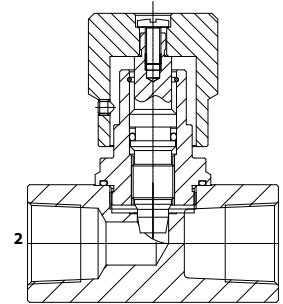
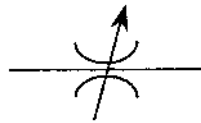
SAE



Needle Valves - Carbon Steel



- NPTF & SAE Connections
- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Set Screw Allows Knob to be Locked into Position
- Graduated Knob & Spindle for Accurate Flow Control
- Buna O-Ring / PTFE Stem Packing
- Temperature Range -4°F to +176°F
- These valves are for control of flow only. Not to be used as isolation or shut-off valves



NEEDLE VALVES								
A		B	D	E	F	MAX PSI	MAX FLOW GPM	WEIGHT (LB)
NPTF	SAE							
1/4	#4	2.12	1.18	2.67	0.98	5700	4	0.70
3/8	#6	2.12	1.18	2.67	0.98	5700	8	0.66
1/2	#8	2.51	1.29	2.85	1.18	5700	13	1.0
3/4	#12	3.19	1.65	3.70	1.57	5700	21	2.3
1	#16	4.00	1.65	3.93	1.77	5700	40	3.2
1-1/4	#20	4.02	2.08	4.78	2.16	5000	50	5.0
1-1/2	#24	4.02	2.08	5.17	2.55	5000	80	6.5

Needle Valves - Carbon Steel

Model Code Breakdown

N N 1/2 - 1

Valve Series

Material

Thread Type

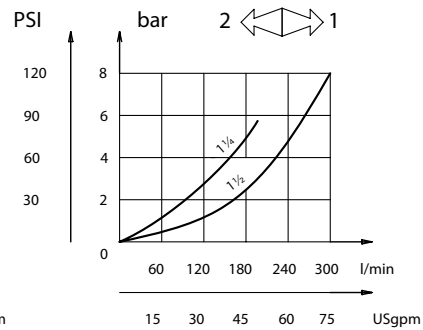
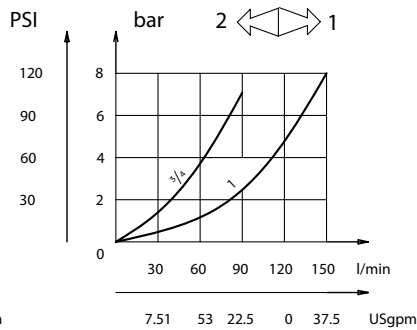
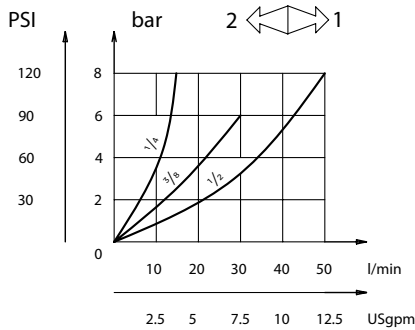
N	NPTF Pipe Thread
S#	SAE Straight Thread

1 Carbon Steel

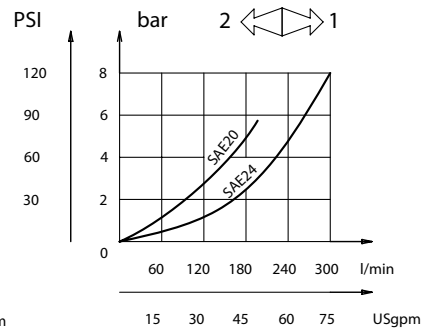
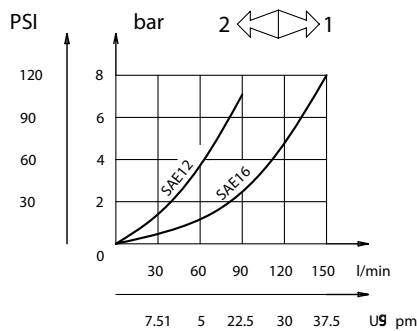
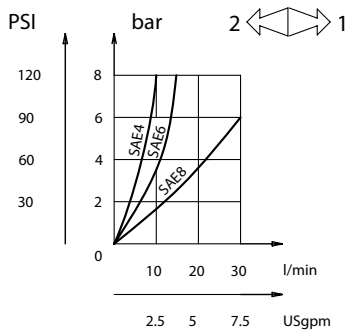
Thread Size

Example	N1/2
	S#8

NPTF



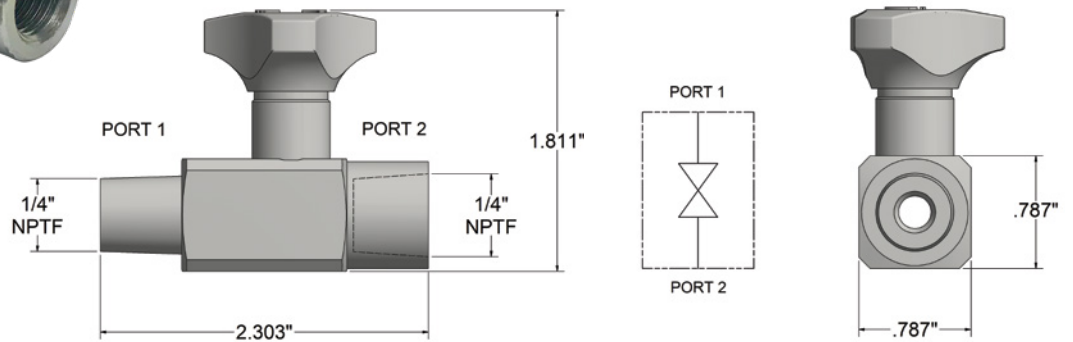
SAE



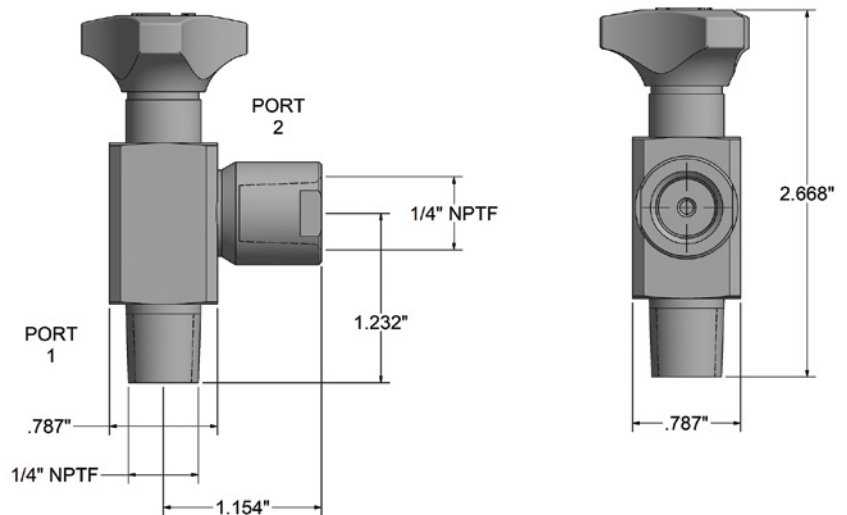
Gauge Shutoff - Carbon Steel



- Part Number: GSN1/4-1
- Temperature Range -4°F to +176°F
- Max Pressure 5800 PSI
- Weight 0.33 lb
- Buna O-Ring



- Part Number: GSN90N1/4-1
- Temperature Range -4°F to +176°F
- Max Pressure 5800 PSI
- Weight 0.33 lb
- Buna O-Ring



INLINE VALVES

[illegible]

BALL VALVES

QUICK COUPLINGS

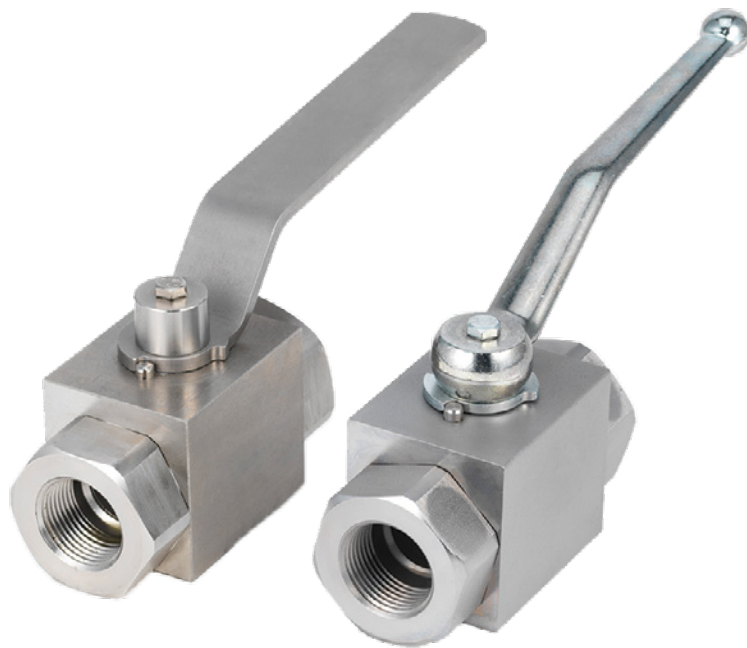
WELD COUPLINGS

SUCTION AND RETURN

C/S FLANGES

S/S FLANGES

HYDRAULIC BALL VALVES



866-FLANGES | 513.527.4444 | Fax 513.527.4449
sales@anchorfluidpower.com | anchorfluidpower.com

AE2 Series - Two-Way Block Body Threaded	20
AB2 Series - Two-Way Forged Body Threaded	22
AV2 - Two-Way Excavator Style	24
AV3 - Three-Way Excavator Style	26
AE3 Series - Three-Way Block Body Threaded	28
AE3K Series - True Three-Way Block Body Threaded	30
AB3 Series - Three-Way Block Body Threaded	32
AES Series - Two-Way Block Body Flange Head	34
ABS Series - Two-Way Forged Body Flange Head	36
AEF Series - Two-Way Block Body Flat Face	38
ABF Series - Two-Way Forged Body Flat Face	40
AES/F & ABS/F Series Flange Head X Flat-Face	42
ARS Series - Two-Way Direct Mount	44
APK Series - Two-Way Manifold Mount	46
Locking Kits	48
Handles	50
LV2B - 1000 WOG Two-Way Stainless Steel	52
MV2B - 2000 WOG Two-Way Stainless Steel	53

BALL VALVE PRESSURE SPECIFICATIONS

Anchor Fluid Power ball valves are tested in accordance with ISO 12266-1 standards.
End connections are manufactured in accordance with one or more of the following standards.

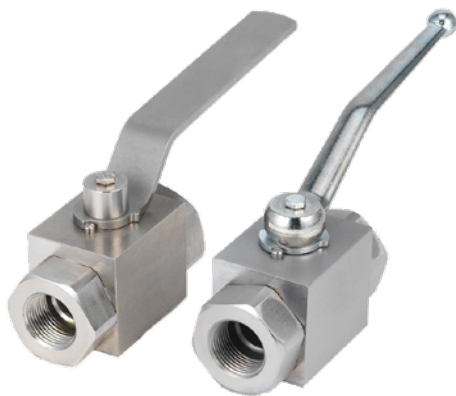
SAE J1926-1
ISO 228-1

SAE J518-1
SAE J518-2

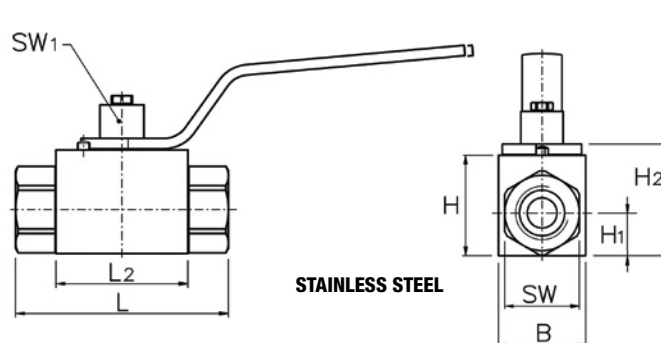
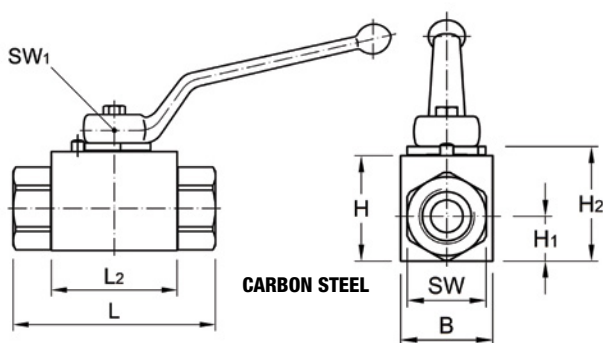
ISO 6162-1
ISO 6162-2

ANSI B.1.20.1

AE2 Series - Two-Way Block Body Threaded



- Carbon steel with zinc nickel plating
- 316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Unrestricted bore up to 1" size
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



CARBON STEEL AE2 SERIES NPT/SAE

NPT PART NUMBER	SAE PART NUMBER	DN (NOMINAL SIZE IN MM)	NPT THREAD	SAE THREAD	L	L2	B	H	H1	H2	SW	SW1	HANDLE CODE (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AE2N1/8-11DB	—	4	1/8 - 27	—	2.72	1.42	0.79	0.98	0.39	1.08	0.75	0.28	12	0.5	7250	LK4/6
AE2N1/4-11DB	AE2S#4-11DB	6	1/4 - 18	7/16 -20 UNF-2B	2.72	1.42	0.79	0.98	0.39	1.08	0.75	0.28	12	0.5	7250	LK4/6
AE2N3/8-11DB	AE2S#6-11DB	10	3/8 - 18	9/16 -18 UNF-2B	2.87	1.77	1.18	1.38	0.57	1.52	0.94	0.31	13	1.1	7250	LK8/10
AE2N1/2-11DB	AE2S#8-11DB	12	1/2 - 14	3/4 -16 UNF-2B	3.23	2.01	1.38	1.57	0.67	1.71	1.18	0.39	14	1.8	7250	LK12
AE2N3/4-11DB	AE2S#12-11DB	20	3/4 - 14	1-1/16 -12 UN-2B	3.66	2.36	1.78	2.17	0.94	2.32	1.61	0.55	15	2.6	6090	LK20/25
AE2N1-11DB	AE2S#16-11DB	25	1-11.5	1-5/16 -12 UN-2B	4.53	2.76	2.17	2.36	1.02	2.52	1.97	0.55	15	3.3	6090	LK20/25
AE2N1-1/4R-11DB	AE2S#20R-11DB	32/25	1-1/4-11.5	1-5/8 -12 UN-2B	5.16	2.76	2.17	2.36	1.02	2.52	1.97/2.17	0.55	15	4.9	6090	LK20/25
AE2N1-1/2R-11DB	AE2S#24R-11DB	40/25	1-1/2-11.5	1-7/8 -12 UN-2B	5.63/5.28	2.76	2.17	2.36	1.02	2.52	2.17/2.56	0.55	15	5.1	6090	LK20/25

STAINLESS STEEL AE2 SERIES NPT/SAE

NPT PART NUMBER	SAE PART NUMBER	DN (NOMINAL SIZE IN MM)	NPT THREAD	SAE THREAD	L	L2	B	H	H1	H2	SW	SW1	HANDLE CODE (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AE2N1/4-22DV	AE2S#4-22DV	6	1/4 - 18	7/16 -20 UNF-2B	2.72	1.42	0.79	0.98	0.39	1.16/1.08	0.75	0.28	32	0.5	7250	LK4/6
AE2N3/8-22DV	AE2S#6-22DV	10	3/8 - 18	9/16 -18 UNF-2B	2.87	1.77	1.18	1.38	0.57	1.56/1.52	0.94	0.31	33	0.9	7250	LK8/10
AE2N1/2-22DV	AE2S#8-22DV	12	1/2 - 14	3/4 -16 UNF-2B	3.23/3.54	2.01/1.77	1.38/1.18	1.57/1.38	0.67/0.57	1.75/1.52	1.18/1.06	0.39/0.31	34	1.5	7250	LK12
AE2N3/4-22DV	AE2S#12-22DV	20	3/4 - 14	1-1/16 -12 UN-2B	3.66/4.21	2.36/1.97	1.77	2.17/1.77	0.94/0.79	2.38/1.91	1.61/1.42	0.55/0.39	35	2.8	6090	LK20/25
AE2N1-22DV	AE2S#16-22DV	25	1-11.5	1-5/16 -12 UN-2B	4.53/4.57	2.76/2.36	2.17/1.77	2.36/2.17	1.02/0.94	2.58/2.32	1.97/1.81	0.55	35	4.3	6090	LK20/25

AE2 Series - Two-Way Block Body Threaded

Model Code Breakdown

AE2 N1 _ - 1 1 D B _

VALVE SERIES

CONNECTION TYPE/SIZE

N	NPT Pipe Thread
S	SAE Straight Thread
B	BSPP Thread

BORE RESTRICTION

blank	Unrestricted Bore
R	Restricted Bore

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	316 Stainless Steel

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

B	Buna
V	Viton

BALL & STEM SEATS

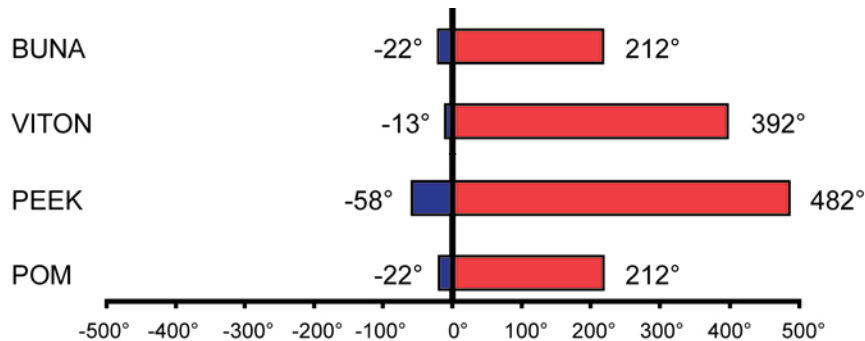
D	POM
---	-----

BALL & STEM MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

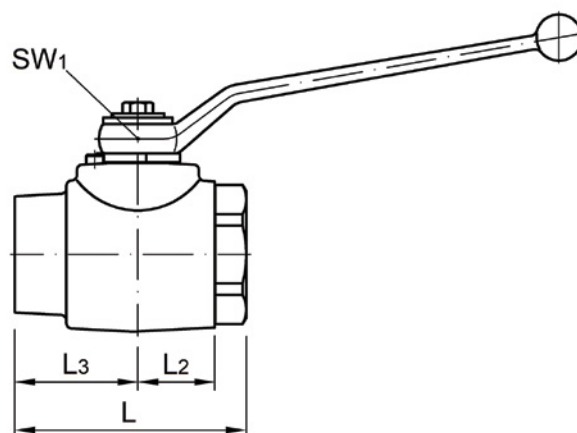
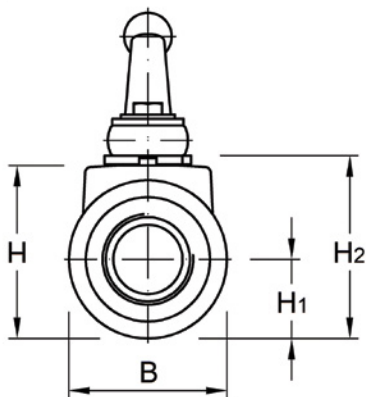


All temperatures are in degrees Fahrenheit.

AB2 Series - Two-Way Forged Body Threaded



- Carbon steel with zinc nickel plating
- Duplex/316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



AB2 SERIES NPT/SAE																
NPT PART NUMBER	SAE PART NUMBER	DN (NOMINAL SIZE IN MM)	NPT THREAD	SAE THREAD	L	L2	L3	B	H	H1	H2	SW1	HANDLE CODE CC/SS (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AB2N1-1/4	AB2S#20	32	1-1/4-11.5	1-5/8 - 12UN-2B	4.33	1.44	2.30	2.87	3.15	1.44	3.33	0.67	21/37	5.7	6090	LK32/40/50
AB2N1-1/2	AB2S#24	40	1-1/2-11.5	1-7/8 - 12UN-2B	4.49	1.57	2.24	3.35	3.54	1.67	3.72	0.67	21/37	9.6	6090	LK32/40/50
AB2N2	AB2S#32	50	2-11.5	2½ - 12UN-2B	5.08	1.89	2.56	3.90	4.09	1.95	4.27	0.67	22/38	12.2	6090	LK32/40/50

AB2 Series - Two-Way Forged Body Threaded

Model Code Breakdown

AB2 N2 - 1 1 D B _

VALVE SERIES

CONNECTION TYPE/SIZE

N	NPT Pipe Thread
S	SAE Straight Thread
B	BSPP Thread

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

BALL & STEM MATERIAL

1	Carbon Steel
2	316 Stainless Steel

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

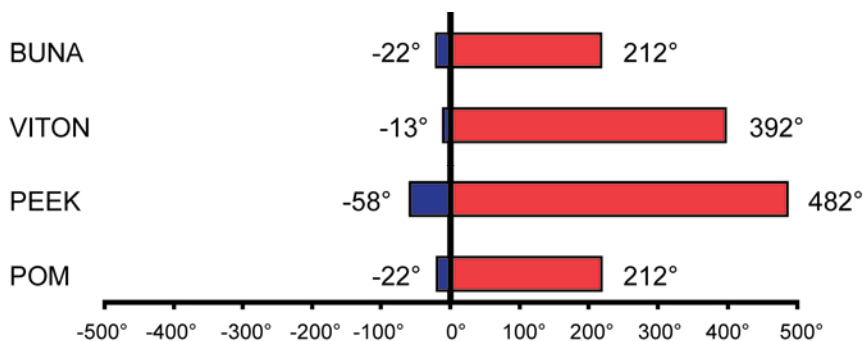
B	Buna
V	Viton

BALL & STEM SEATS

D	POM
---	-----

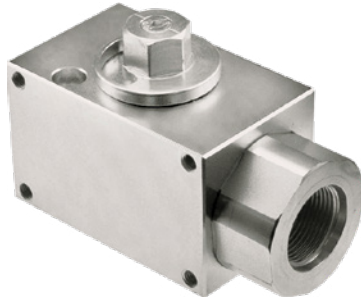
Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

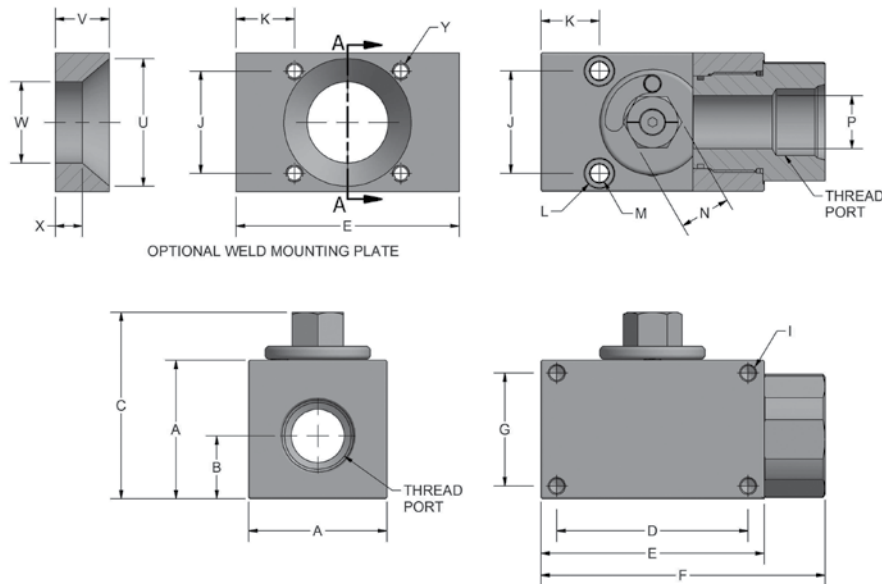


All temperatures are in degrees Fahrenheit.

AV2 Series - Two-Way Excavator Style



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Hex stem eliminates need for attached handle
- Detented stop washer prevents accidental actuation
- Mounting holes standard
- Max pressure of 7250 PSI on all sizes
- No handle available for this series
- Optional weld mounting plates sold separately



*Weld Plate Mounting Pattern Matches "J" Dimension (Top of Valve)

AV2 SERIES																
NPT	SAE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	WEIGHT
AV2N1/2	AV2S#8	1.77	0.79	2.46	2.52	3.15	4.07	1.30	M8 X 1.25	1.26	0.91	0.41	0.25	0.75	0.51	2.9 LBS
AV2N3/4	AV2S#12	2.17	0.92	3.05	3.15	3.98	5.10	1.69	M8 X 1.25	1.57	1.00	0.53	0.32	0.94	0.79	5.3 LBS
AV2N1	AV2S#16	2.56	1.16	3.44	3.54	4.13	5.26	2.09	M8 X 1.25	1.89	1.08	0.53	0.32	0.94	0.98	7.6 LBS
AV2N1-1/4R	AV2S#20R	2.56	1.16	3.44	3.54	4.13	5.26	2.09	M8 X 1.25	1.89	1.08	0.53	0.32	0.94	0.98	7.2 LBS
AV2N1-1/4	AV2S#20	3.15	1.32	4.07	3.39	4.13	5.26	2.52	M8 X 1.25	2.36	0.96	0.53	0.32	1.26	1.26	11.0 LBS

WELD MOUNTING PLATES							
PART #	VALVE SIZE	U	V	W	X	Y	KIT INCLUDED SHCS
*WP-AV#8U	1/2"	N/A	1.00	N/A	N/A	M6 X 1.00	M6 X 50 MM
WP-AV#12U	3/4"	1.97	1.00	1.50	.50	5/16-18 UNC-2B	5/16 X 2.25"
WP-AV#16U	1" & 1 1/4" REDUCED	2.36	1.00	1.50	.50	5/16-18 UNC-2B	5/16 X 2.75"
WP-AV#20U	1 1/4" FULL	2.86	1.00	1.50	.50	5/16-18 UNC-2B	5/16 X 3.25"

*No internal weld hole on this size weld plate



AV2 Series - Two-Way Excavator Style

Model Code Breakdown

AV2 N1/2 _ - 1 1 D V

VALVE SERIES

CONNECTION TYPE/SIZE

N	NPT Pipe Thread
S	SAE Straight Thread

BORE RESTRICTION

blank	Unrestricted Bore
R	Restricted Bore

BODY & ADAPTER MATERIAL

1	Carbon Steel
---	--------------

ADAPTER & STEM SEALS

V	Viton (Standard)
---	------------------

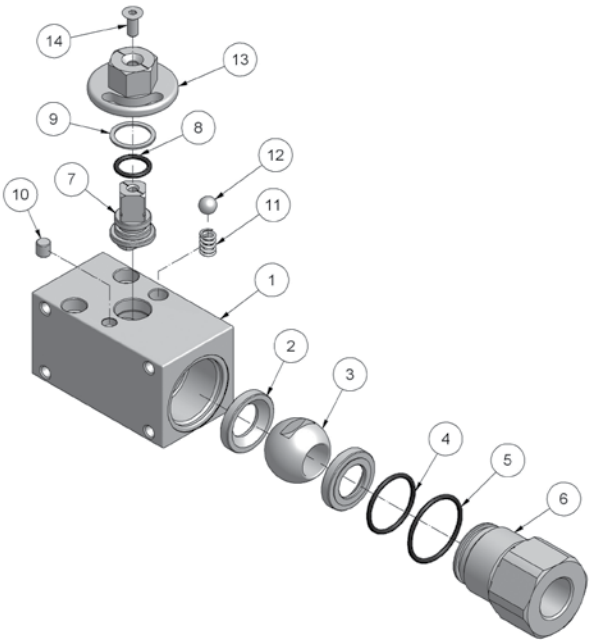
BALL & STEM SEATS

D	POM
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BALL & STEM MATERIAL

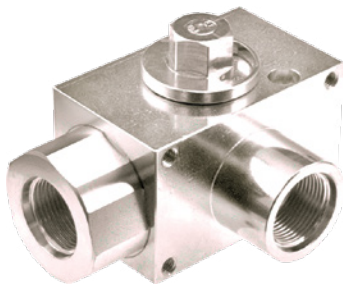
1	Carbon Steel
---	--------------

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

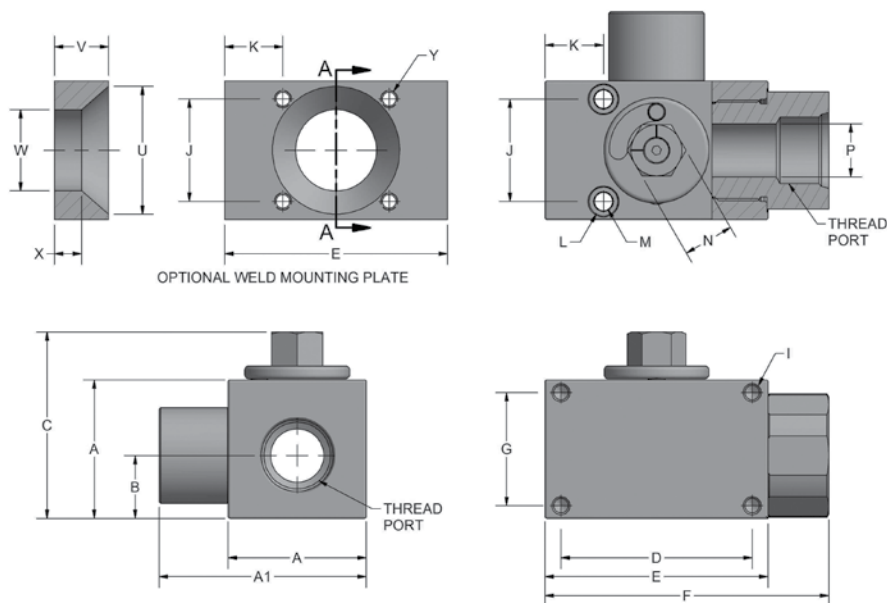


Parts List		
ITEM	QTY	PART NUMBER
1	1	AV2 Valve Body
2	2	Ball Seats
3	1	Ball
4	1	Adapter O-Ring (Small)
5	1	Adapter O-Ring (Large)
6	1	Adapter
7	1	Stem
8	1	Stem O-Ring
9	1	Stem Seat
10	1	Stop Pin
11	1	Spring
12	1	Detent Ball
13	1	Alignment Stop
14	1	Screw

AV3 Series - Three-Way Excavator Style



- Carbon Steel with Zinc Chromate Plating (RoHS Compliant)
- Hex stem eliminates need for attached handle
- No handle available for this series
- Detented stop washer prevents accidental actuation
- Mounting holes standard
- Max pressure of 5075 PSI on all sizes
- Optional weld mounting plates sold separately



*Weld Plate Mounting Pattern Matches "J" Dimension (Top of Valve)

AV3 SERIES																	
NPT	SAE	A	A1	B	C	D	E	F	G	I	J	K	L	M	N	P	WEIGHT
AV3LN1/2	AV3LS#8	1.77	2.62	0.79	2.74	2.52	3.15	4.07	1.30	M8 X 1.25	1.26	0.91	0.41	0.25	0.75	0.51	3.0 LBS
AV3LN3/4	AV3LS#12	2.17	3.35	0.92	2.89	3.15	3.98	5.10	1.69	M8 X 1.25	1.57	1.00	0.53	0.32	0.94	0.79	5.5 LBS
AV3LN1	AV3LS#16	2.56	3.84	1.16	3.29	3.54	4.13	5.26	2.09	M8 X 1.25	1.89	1.08	0.53	0.32	0.94	0.98	7.9 LBS
AV3LN1-1/4R	AV3LS#20R	2.56	3.90	1.16	3.29	3.54	4.13	5.26	2.09	M8 X 1.25	1.89	1.08	0.53	0.32	0.94	0.98	7.7 LBS
AV3LN1-1/4	AV3LS#20	3.15	4.65	1.32	3.88	3.39	4.13	5.26	2.52	M8 X 1.25	2.36	0.96	0.53	0.32	1.26	1.26	11.7 LBS

WELD MOUNTING PLATES							
PART #	VALVE SIZE	U	V	W	X	Y	KIT INCLUDED SHCS
*WP-AV#8U	1/2"	N/A	1.00	N/A	N/A	M6 X 1.00	M6 X 50 MM
WP-AV#12U	3/4"	1.97	1.00	1.50	.50	5/16-18 UNC-2B	5/16 X 2.25"
WP-AV#16U	1" & 1 1/4" REDUCED	2.36	1.00	1.50	.50	5/16-18 UNC-2B	5/16 X 2.75"
WP-AV#20U	1 1/4" FULL	2.86	1.00	1.50	.50	5/16-18 UNC-2B	5/16 X 3.25"

*No internal hole on this size weld plate.



AV3 Series - Three-Way Excavator Style

Model Code Breakdown

AV3L N1/2 _ - 1 1 D B

VALVE SERIES

CONNECTION TYPE/SIZE

N	NPT Pipe Thread
S	SAE Straight Thread

BORE RESTRICTION

blank	Unrestricted Bore
R	Restricted Bore

BODY & ADAPTER MATERIAL

1	Carbon Steel
---	--------------

ADAPTER & STEM SEALS

V	Viton (Standard)
---	------------------

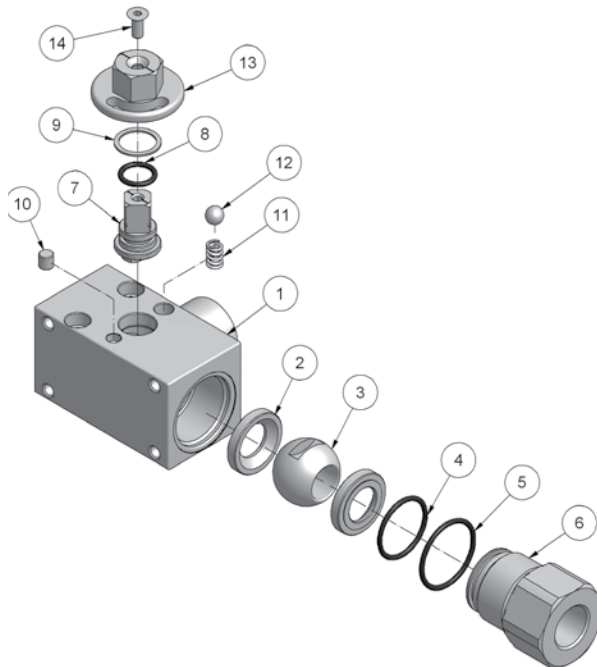
BALL & STEM SEATS

D	POM
---	-----

BALL & STEM MATERIAL

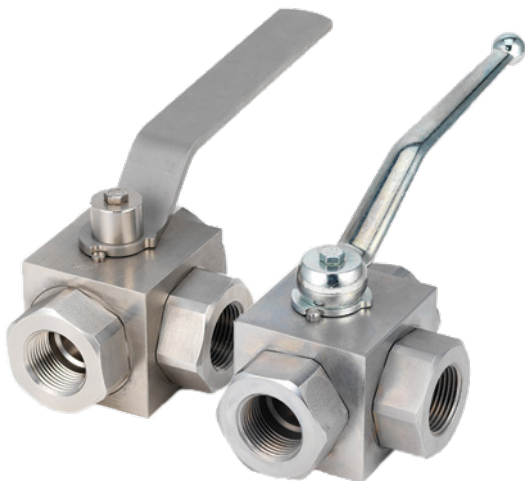
1	Carbon Steel
---	--------------

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

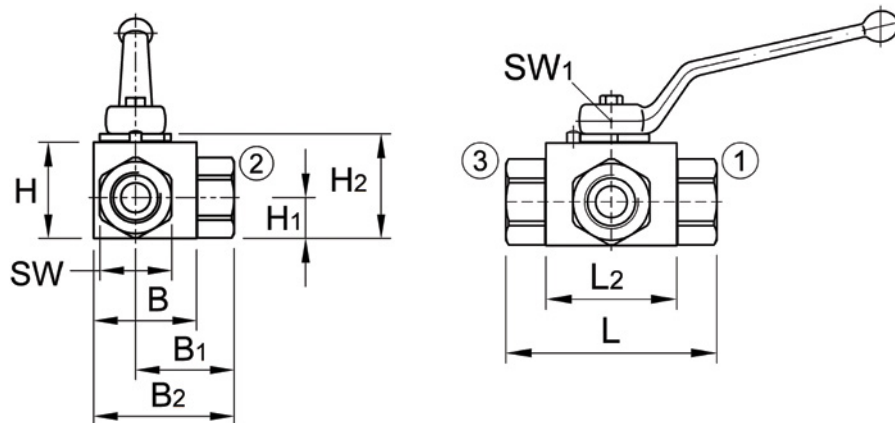


Parts List		
ITEM	QTY	PART NUMBER
1	1	AV3 Valve Body
2	2	Ball Seats
3	1	Ball
4	1	Adapter O-Ring (Small)
5	1	Adapter O-Ring (Large)
6	1	Adapter
7	1	Stem
8	1	Stem O-Ring
9	1	Stem Seat
10	1	Stop Pin
11	1	Spring
12	1	Detent Ball
13	1	Alignment Stop
14	1	Screw

AE3 Series - Three-Way Block Body Threaded



- L-port design diverter valve
- Carbon steel with zinc nickel plating
- 316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



AE3 SERIES NPT/SAE																		
NPT PART NUMBER	SAE PART NUMBER	DN (NOMINAL SIZE IN MM)	NPT THREAD	SAE THREAD	L	L2	B	B1	B2	H	H1	H2	SW	SW1	HANDLE CODE CC/SS (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AE3LN1/4	AE3LS#4	6	1/4 - 18	7/16 -20 UNF-2B	2.72	1.42	1.18	1.36	1.83	1.18	0.59	1.28	0.75	0.28	12/32	0.9	7250	LK4/6
AE3LN3/8	AE3LS#6	10	3/8 - 18	9/16 -18 UNF-2B	2.87	1.77	1.57	1.44	2.13	1.38	0.57	1.52	0.94	0.31	13/33	1.4	7250	LK8/10
AE3LN1/2	AE3LS#8	12	1/2 - 14	3/4 -16 UNF-2B	3.23	2.01	1.77	1.61	2.38	1.77	0.87	1.91	1.18	0.39	14/34	2.1	7250	LK12
AE3LN3/4	AE3LS#12	20	3/4 - 14	1-1/16 -12 UN-2B	3.66	2.36	2.17	1.89	2.81	2.36	1.14	2.52	1.61	0.55	15/35	3.9	6090	LK20/25
AE3LN1	AE3LS#16	25	1-11.5	1-5/16 -12 UN-2B	4.53	2.76	2.56	2.26	3.44	2.56	1.22	2.72	1.97	0.55	15/35	6.0	6090	LK20/25
AE3LN1-1/4R	AE3LS#20R	32/25	1-1/4-11.5	1-5/8 -12 UN-2B	5.16	2.76	2.56	2.64/2.58	3.82/3.76	2.56	1.22	2.72	1.97/2.17	0.55	15/36	6.8	6090	LK20/25
AE3LN1-1/2R	AE3LS#24R	40/25	1-1/2-11.5	1-7/8 -12 UN-2B	5.63/5.31	2.76	2.56	2.74/2.64	3.92/3.82	2.56	1.22	2.72	2.17/2.56	0.55	15/36	6.4	6090	LK20/25

Only pressurize center port (port #2). Side ports (ports #1 and #3) should not be pressurized or be exposed to back pressure that is greater than the inlet pressure. Failure to follow these guidelines will result in internal leakage through the valve. For applications requiring pressure applied to side ports, please refer to AE3K Series valves.

AE3 Series - Three-Way Block Body Threaded

Model Code Breakdown

AE3 L N1 _ - 1 1 D B _

VALVE SERIES

PORT TYPE

L	"Diverter" L-Port
---	-------------------

CONNECTION TYPE/SIZE

N	NPT Pipe Thread
S	SAE Straight Thread

BORE RESTRICTION

blank	Unrestricted Bore
R	Restricted Bore

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	316 Stainless Steel

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

B	Buna
V	Viton

BALL & STEM SEATS

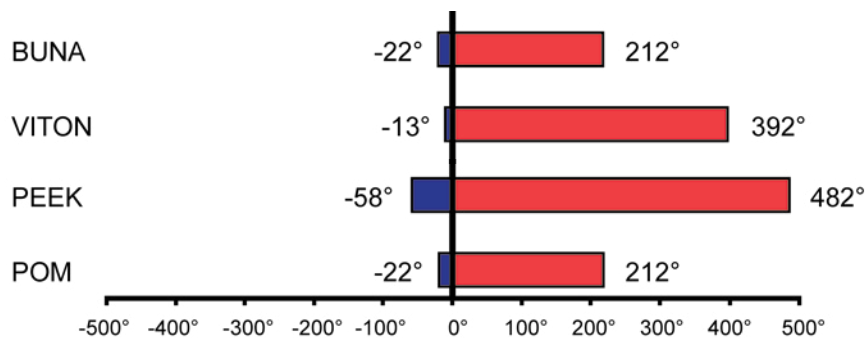
D	POM
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BALL & STEM MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

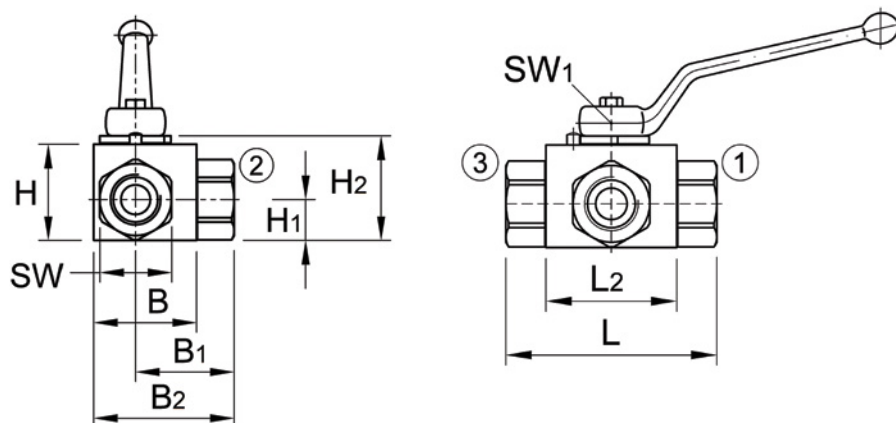


All temperatures are in degrees Fahrenheit.

AE3K Series - True Three-Way Block Body Threaded



- Any port can be pressurized on AE3K series. Backup o-ring behind seat prevents internal leakage.
- Carbon steel with zinc nickel plating
- PEEK seats and Buna O-rings standard on AE3K series (-11PB)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



AE3K SERIES NPT/SAE																		
NPT PART NUMBER	SAE PART NUMBER	DN (NOMINAL SIZE IN MM)	NPT THREAD	SAE THREAD	L	L2	B	B1	B2	H	H1	H2	SW	SW1	HANDLE CODE (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AE3KLN1/4-11PB	AE3KLS#4-11PB	6	1/4 - 18	7/16-20 UNF-2B	2.72	1.42	1.18	1.36	1.83	1.18	0.59	1.28	0.75	0.28	12	0.9	7250	LK4/6
AE3KLN3/8-11PB	AE3KLS#6-11PB	10	3/8 - 18	9/16-18 UNF-2B	2.87	1.77	1.57	1.44	2.13	1.38	0.57	1.52	0.94	0.31	13	1.4	7250	LK8/10
AE3KLN1/2-11PB	AE3KLS#8-11PB	12	1/2 - 14	3/4 -16 UNF-2B	3.23	2.01	1.77	1.61	2.38	1.77	0.87	1.91	1.18	0.39	14	2.1	7250	LK12
AE3KLN3/4-11PB	AE3KLS#12-11PB	20	3/4 - 14	1-1/16-12 UN-2B	3.66	2.36	2.17	1.89	2.81	2.36	1.14	2.52	1.61	0.55	15	3.9	6090	LK20/25
AE3KLN1-11PB	AE3KLS#16-11PB	25	1-11.5	1-5/16-12 UN-2B	4.53	2.76	2.56	2.26	3.44	2.56	1.22	2.72	1.97	0.55	15	6.0	6090	LK20/25

AE3K Series - True Three-Way Block Body Threaded

Model Code Breakdown

AE3K L N1 _ - 1 1 P B _

VALVE SERIES

PORT TYPE

L	"Diverter" L-Port
---	-------------------

CONNECTION TYPE/SIZE

N	NPT Pipe Thread
S	SAE Straight Thread

BORE RESTRICTION

blank	Unrestricted Bore
R	Restricted Bore

BODY & ADAPTER MATERIAL

1	Carbon Steel
---	--------------

BALL & STEM MATERIAL

1	Carbon Steel
---	--------------

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

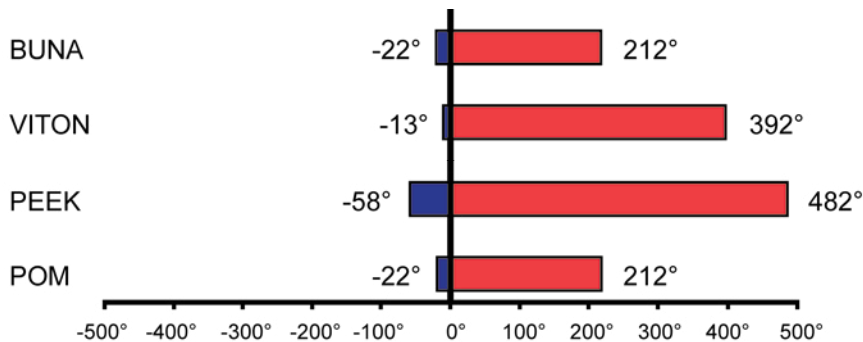
B	Buna
---	------

BALL & STEM SEATS

P	PEEK- Standard
---	----------------

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

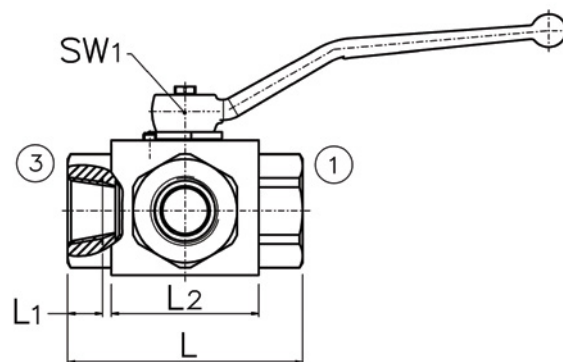
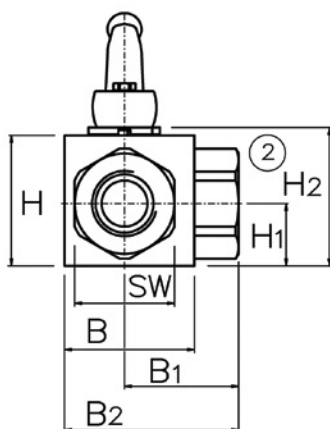


All temperatures are in degrees Fahrenheit.

AB3 Series - Three-Way Block Body Threaded



- L-port design diverter valve
- Carbon steel with zinc nickel plating
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



AB3 SERIES																
PART NUMBER	DN (NOMINAL SIZE IN MM)	NPT THREAD	L	L2	B	B1	B2	H	H1	H2	SW	SW1	HANDLE CODE (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AB3LN1-1/4-11DB	32	1-1/4-11.5	4.06	2.91	3.15	2.34	3.72	3.15	1.44	3.31	2.36	0.67	21	8.5	6090	LK32/40/50
AB3LN1-1/2-11DB	40	1-1/2-11.5	4.49	3.54	3.94	3.01	4.66	3.54	1.68	3.70	2.95	0.67	21	13.8	6090	LK32/40/50
AB3LN2-11DB	50	2-11.5	5.04	4.33	4.72	3.68	5.69	4.33	2.17	4.49	3.35	0.67	21	23.0	6090	LK32/40/50

Only pressurize center port (port #2). Side ports (ports #1 and #3) should not be pressurized or be exposed to back pressure that is greater than the inlet pressure. Failure to follow these guidelines will result in internal leakage through the valve.
For applications requiring pressure applied to side ports, please refer to AE3K Series valves.

AB3 Series - Three-Way Block Body Threaded

Model Code Breakdown

AB3 L N2 - 1 1 D B _

VALVE SERIES

PORT TYPE

L	"Diverter" L-Port
---	-------------------

CONNECTION TYPE/SIZE

N	NPT Pipe Thread
---	-----------------

BODY & ADAPTER MATERIAL

1	Carbon Steel
---	--------------

BALL & STEM MATERIAL

1	Carbon Steel
---	--------------

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

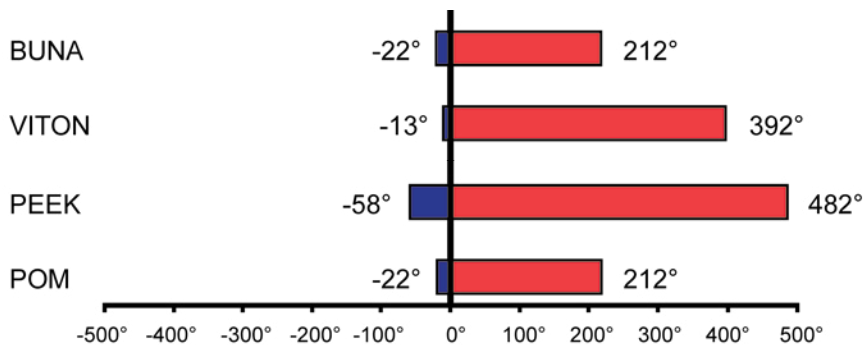
B	Buna
V	Viton

BALL & STEM SEATS

D	POM- Standard
---	---------------

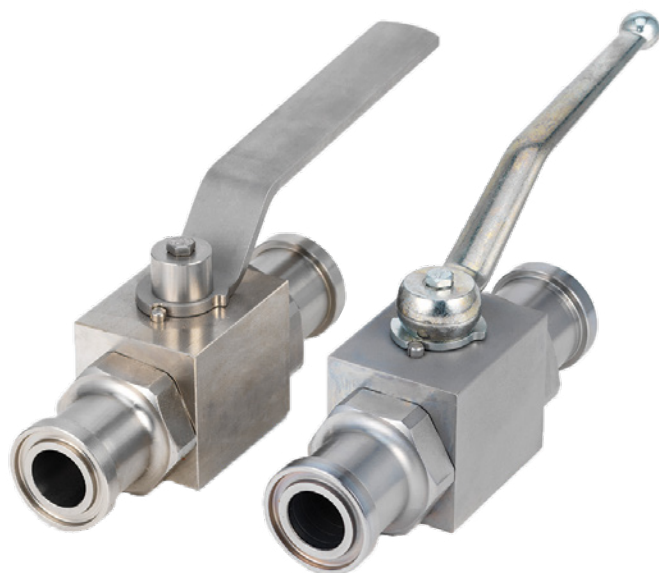
Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

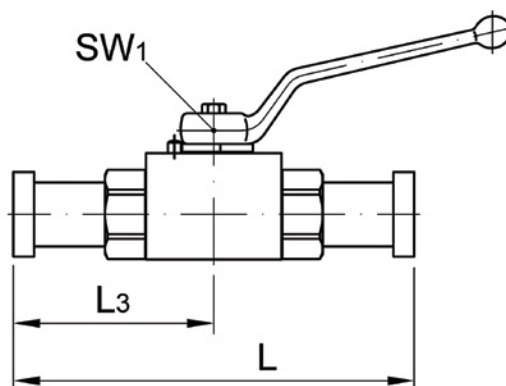
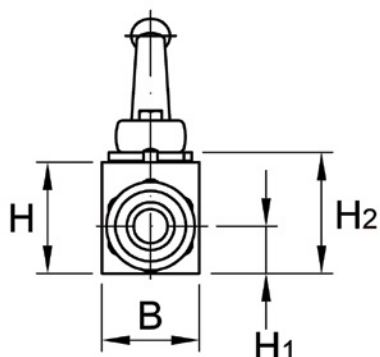


All temperatures are in degrees Fahrenheit.

AES Series - Two-Way Block Body Flange Head



- O-ring groove both ends
- Carbon steel with zinc nickel plating
- 316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



AES SERIES CODE 61/CODE 62

CODE 61 PART NUMBER	CODE 62 PART NUMBER	DN (NOMINAL SIZE IN MM)	FLANGE SIZE	L	L3	B	H	H1	H2	SW1	HANDLE CODE CC/SS (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AES3#8	AES6#8	13	1/2	5.94	2.97	1.38	1.57	0.67	1.71	0.39	14/34	2.2	5075/6090	LK12
AES3#12	AES6#12	19	3/4	6.38/6.85	3.19/3.43	1.77	2.17	0.94	2.32	0.55	15/35	4.0	5075/6090	LK20/25
AES3#16	AES6#16	25	1	7.01/7.80	3.50/3.90	2.17	2.36	1.02	2.52	0.55	15/35	5.7	4640/6090	LK20/25

AES Series - Two-Way Block Body Flange Head

Model Code Breakdown

AES3 #16 - 1 1 D B _

VALVE SERIES

AES3	Code 61
AES6	Code 62

CONNECTION SIZE

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	316 Stainless Steel

BALL & STEM MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

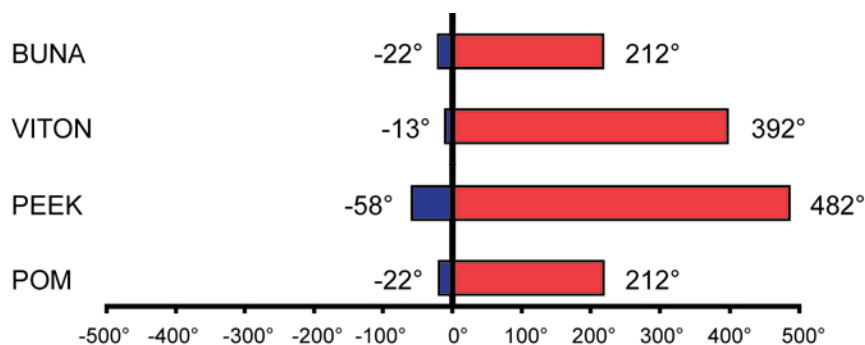
B	Buna
V	Viton

BALL & STEM SEATS

D	POM
---	-----

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

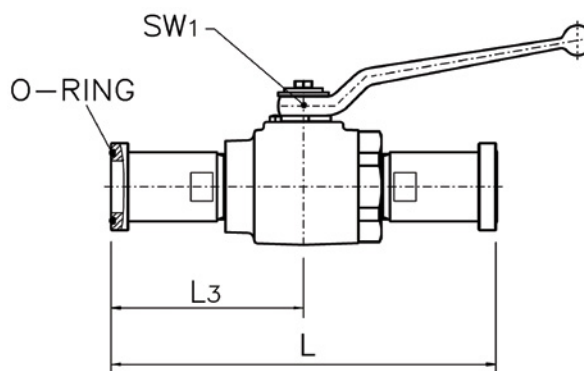
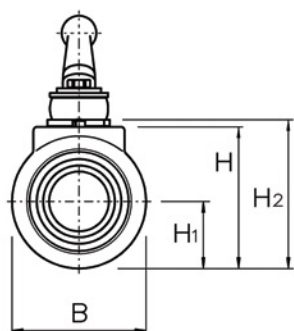


All temperatures are in degrees Fahrenheit.

ABS Series - Two-Way Forged Body Flange Head



- O-ring groove both ends
- Carbon steel with zinc nickel plating
- Duplex/316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



ABS SERIES CODE 61/CODE 62														
CODE 61 PART NUMBER	CODE 62 PART NUMBER	DN (NOMINAL SIZE IN MM)	FLANGE SIZE	L	L3	B	H	H1	H2	SW1	HANDLE CODE CC/SS (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
ABS3#20	ABS6#20	32	1-1/4	7.52/8.78	3.90/4.53	2.87	3.15	1.44	3.33	0.67	21/37	8.8	4060/6090	LK32/40/50
ABS3#24	ABS6#24	38	1-1/2	9.09/11.06	4.55/5.53	3.35	3.54	1.67	3.72	0.67	21/37	12.3	3045/6090	LK32/40/50
ABS3#32	ABS6#32	51	2	9.13/12.44	4.57/6.24	3.90	4.09	1.95	4.27	0.67	22/38	17.0	3045/6090	LK32/40/50

ABS Series - Two-Way Forged Body Flange Head

Model Code Breakdown

ABS3 #32 - 1 1 D B _

VALVE SERIES

ABS3	Code 61
ABS6	Code 62

CONNECTION SIZE

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

BALL & STEM MATERIAL

1	Carbon Steel
2	316 Stainless Steel

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

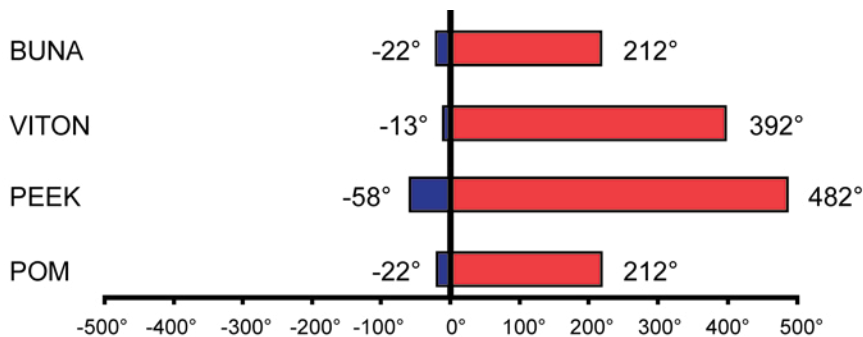
B	Buna
V	Viton

BALL & STEM SEATS

D	POM- Standard
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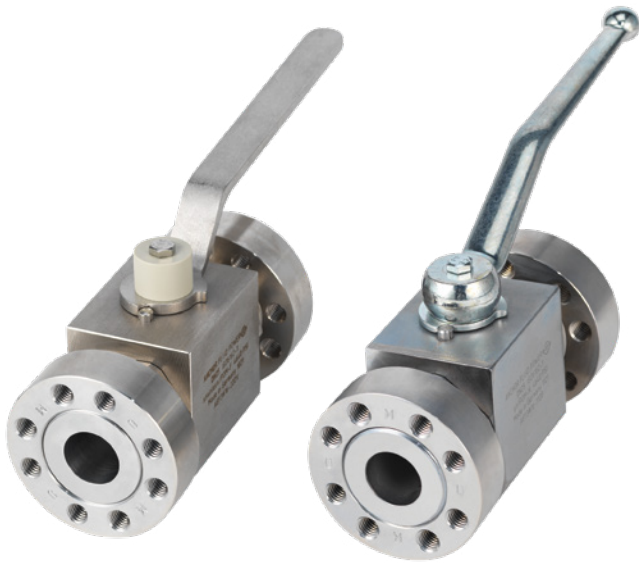
Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

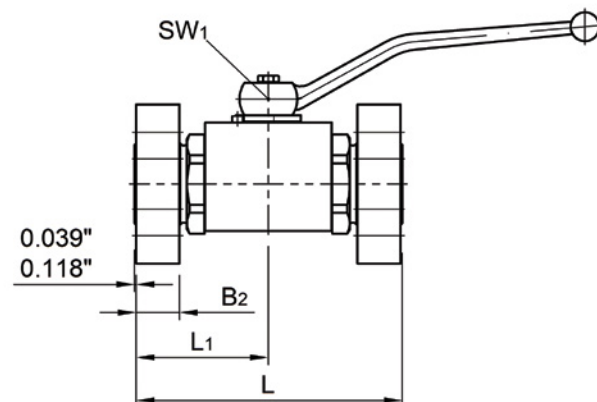
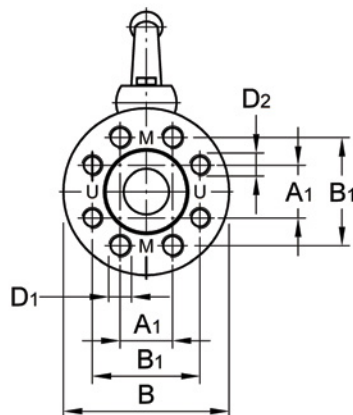


All temperatures are in degrees Fahrenheit.

AEF Series - Two-Way Block Body Flat Face



- Flat face both ends
- Carbon steel with zinc nickel plating
- 316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Both metric (ISO 6162) and UNC (SAE J518) threads standard on all valves
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



AEF SERIES CODE 61/CODE 62																
CODE 61 PART NUMBER	CODE 62 PART NUMBER	DN (NOMINAL SIZE IN MM)	FLANGE SIZE	D1	D2	A1	B1	B2	L	L1	B	SW1	HANDLE CODE CC/SS (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AEF3#8	AEF6#8	13	1/2	M8	5/16 - 18 UNC	0.69/0.72	1.50/1.59	0.79/0.83	4.25	2.13	2.36	0.39	14/34	3.1	5075/6090	LK12FF
AEF3#12	AEF6#12	19	3/4	M10	3/8 - 16 UNC	0.88/0.94	1.87/2.00	0.87/0.94	5.16	2.58	2.76/3.15	0.55	15/35	6.2	5075/6090	LK20/25FF
AEF3#16	AEF6#16	25	1	M10/ M12	3/8 - 16 UNC/ 7/16 - 14 UNC	1.03/1.09	2.06/2.25	0.87/1.06	5.67	2.83	2.95/3.54	0.55	15/35	9.0	4640/6090	LK20/25FF

AEF Series - Two-Way Block Body Flat Face

Model Code Breakdown

AEF3 #16 - 1 1 D B _

VALVE SERIES

AEF3	Code 61
AEF6	Code 62

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

CONNECTION SIZE

ADAPTER & STEM SEALS

B	Buna
V	Viton

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	316 Stainless Steel

BALL & STEM SEATS

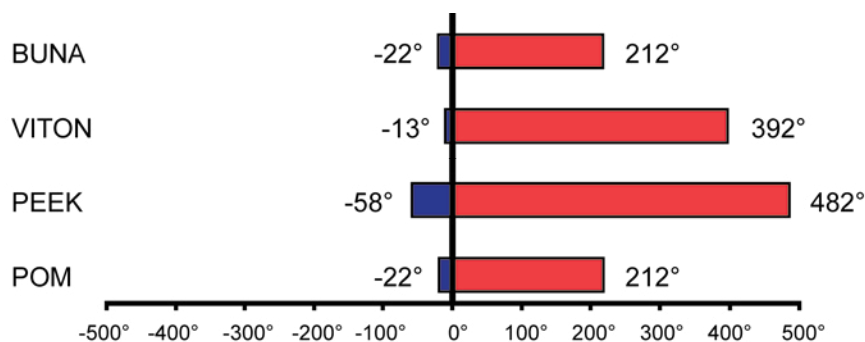
D	POM- Standard
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BALL & STEM MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

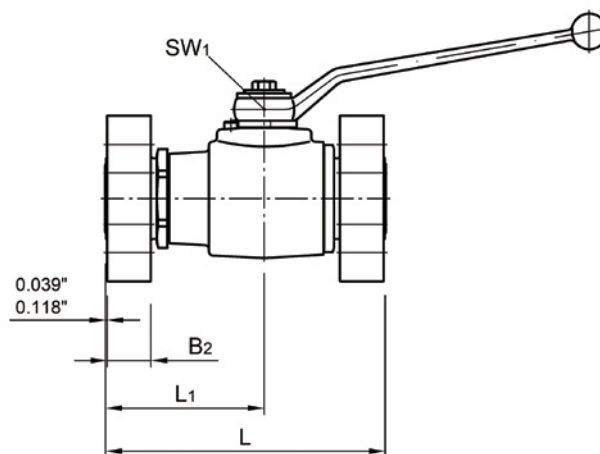
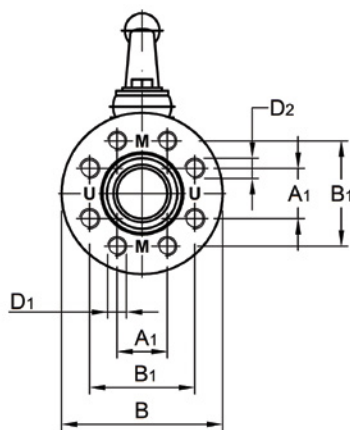


All temperatures are in degrees Fahrenheit.

ABF Series - Two-Way Forged Body Flat Face



- Flat face both ends
- Carbon steel with zinc nickel plating
- Duplex/316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Both metric (ISO 6162) and UNC (SAE J518) threads standard on all valves
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



ABF SERIES CODE 61/CODE 62

CODE 61 PART NUMBER	CODE 62 PART NUMBER	DN (NOMINAL SIZE IN MM)	FLANGE SIZE	D1	D2	A1	B1	B2	L	L1	B	SW1	HANDLE CODE CC/SS (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
ABF3#20	ABF6#20	32	1-1/4	M10/ M12	7/16 - 14 UNC/ 1/2 - 13 UNC	1.19/1.25	2.31/2.63	0.98	7.13	4.09	3.35/3.94	0.67	21/37	11.0	4060/6090	LK32/40/50FF
ABF3#24	ABF6#24	38	1-1/2	M12/ M16	1/2 - 13 UNC/ 5/8 - 11 UNC	1.41/1.44	2.75/3.13	1.06/1.38	8.23	4.65	3.94/4.72	0.67	21/37	22.5	3045/6090	LK32/40/50FF
ABF3#32	ABF6#32	51	2	M12/ M20	1/2 - 13 UNC/ 3/4 - 10 UNC	1.69/1.75	3.06/3.81	1.06/1.50	9.43	5.12	4.33/5.51	0.67	22/38	31.1	3045/6090	LK32/40/50FF

ABF Series - Two-Way Forged Body Flat Face

Model Code Breakdown

ABF3 #32 - 1 1 D B _

VALVE SERIES

ABF3	Code 61
ABF6	Code 62

CONNECTION SIZE

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

BALL & STEM MATERIAL

1	Carbon Steel
2	316 Stainless Steel

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

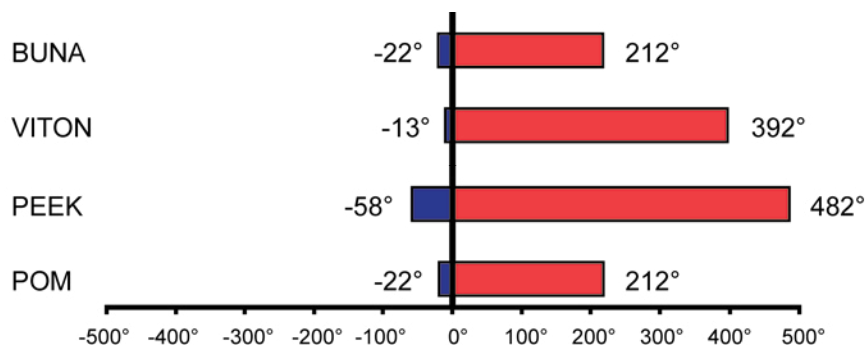
B	Buna
V	Viton

BALL & STEM SEATS

D	POM- Standard
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Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

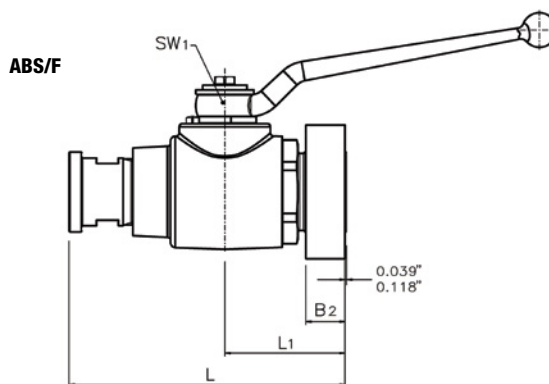
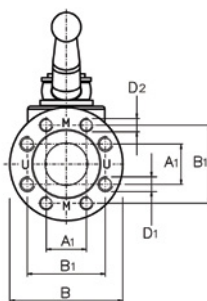
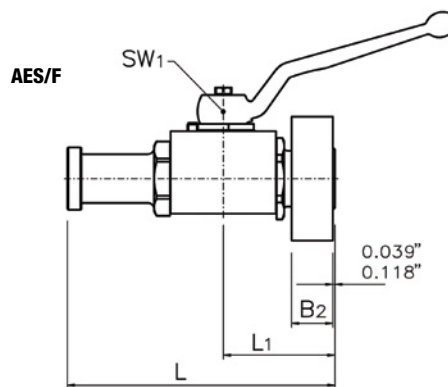
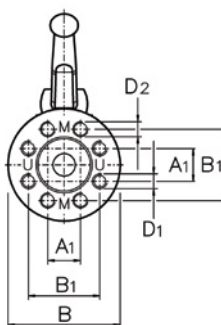


All temperatures are in degrees Fahrenheit.

AES/F & ABS/F Series - Flange Head X Flat-Face



- O-ring one end, flat face one end
- Carbon steel with zinc nickel plating
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Both metric (ISO 6162) and UNC (SAE J518) threads standard on all valves
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



AES/F & ABS/F SERIES CODE 61/CODE 62																
CODE 61 PART NUMBER	CODE 62 PART NUMBER	DN (NOMINAL SIZE IN MM)	FLANGE SIZE	D1	D2	A1	B1	B2	L	L1	B	SW1	HANDLE CODE CC/SS (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
AES/F3#8	AES/F6#8	13	1/2	5/16 - 18 UNC	M8	0.69/0.72	1.50/1.59	0.79/0.83	5.10	2.13	2.36	0.39	14/34	2.6	5075/6090	LK12FF
AES/F3#12	AES/F6#12	19	3/4	3/8 - 16 UNC	M10	0.88/0.94	1.87/2.00	0.87/0.94	5.77/6.00	2.60	2.76/3.15	0.55	15/35	5.1	5075/6090	LK20/25FF
AES/F3#16	AES/F6#16	25	1	3/8 - 16 UNC/ 7/16 - 14 UNC	M10/M12	1.03/1.09	2.06/2.25	0.87/1.06	6.34/6.73	2.83	2.95/3.54	0.55	15/35	7.4	4640/6090	LK20/25FF
ABS/F3#20	ABS/F6#20	32	1 1/4	7/16 - 14 UNC/ 1/2 - 13 UNC	M10/M12	1.19/1.25	2.31/2.63	0.98	6.95/7.58	3.07	3.35/3.94	0.67	21/37	9.1	4060/6090	LK32/40/50FF
ABS/F3#24	ABS/F6#24	38	1 1/2	1/2 - 13 UNC/ 5/8 - 11 UNC	M12/M16	1.41/1.44	2.75/3.13	1.06/1.38	8.15/9.13	3.62	3.94/4.72	0.67	21/37	17.4	3045/6090	LK32/40/50FF
ABS/F3#32	ABS/F6#32	51	2	1/2 - 13 UNC/ 3/4 - 10 UNC	M12/M20	1.69/1.75	3.06/3.81	1.06/1.50	8.92/10.57	4.33	4.33/5.51	0.67	22/38	24.0	3045/6090	LK32/40/50FF

AES/F & ABS/F Series - Flange Head X Flat-Face

Model Code Breakdown

AES/F3 #16 - 1 1 D B _

VALVE SERIES

AES/F3	Code 61 Block Body
AES/F6	Code 62 Block Body
ABS/F3	Code 61 Forged Body
ABS/F6	Code 62 Forged Body

CONNECTION SIZE

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

BALL & STEM MATERIAL

1	Carbon Steel
2	Duplex/ 316 Stainless Steel

**LOCKING KIT OR
OPTIONAL HANDLE CODE**
(See pages 48-51)

ADAPTER & STEM SEALS

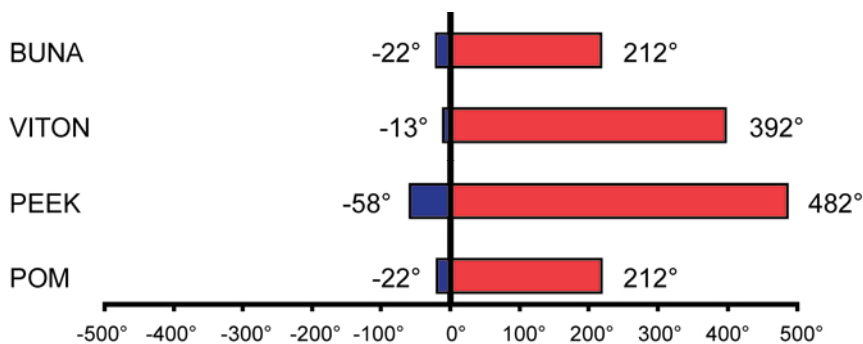
B	Buna
V	Viton

BALL & STEM SEATS

D	POM- Standard
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Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

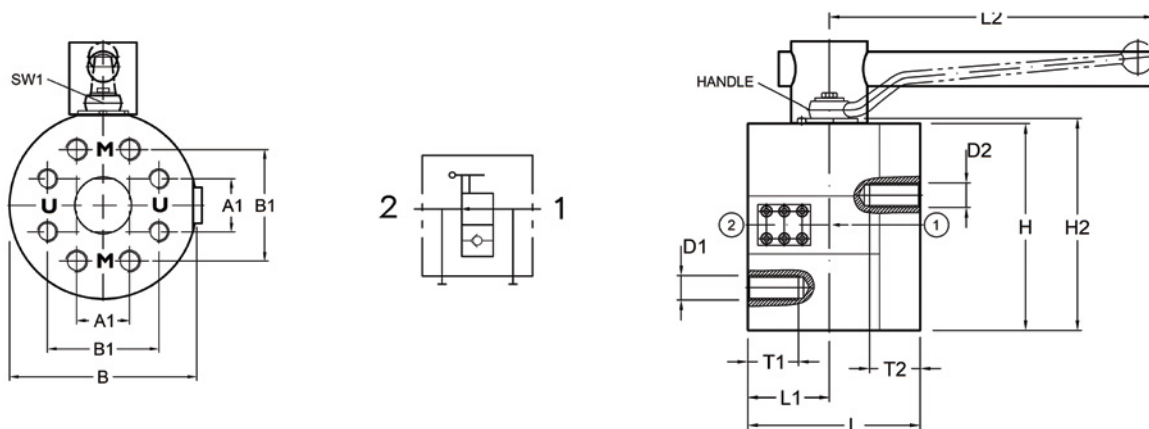


All temperatures are in degrees Fahrenheit.

ARS Series - Two-Way Direct Mount



- Carbon steel with zinc nickel plating
- 316 stainless steel available from stock
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- POM seats and Viton O-rings standard on stainless steel valves (-22DV)
- Both metric (ISO 6162) and UNC (SAE J518) threads standard on all valves
- Bypass port with blanking flange standard. Add APK2#4 to use as bypass valve.
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



ARS SERIES																		
PART NUMBER	DN (NOMINAL SIZE IN MM)	FLANGE SIZE	D1	T1	D2	T2	A1	B1	L	L1	B	H	H2	SW1	HANDLE CODE (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX	LOCKING KIT # (SEE PG 48-49)
ARS3#40	64	2-1/2	M12	27	1/2 - 13 UNC	1.06	2.00	3.50	5.91	2.97	7.09	6.89	7.09	0.67	22	61.7	2500	LK32/40/50
ARS3#48	76	3	M16	30	5/8 - 11 UNC	1.18	2.44	4.19	6.10	3.17	8.19	7.95	-	0.75	58	94.8	2300	LK76/102/127
ARS3#64	102	4	M16	30	5/8 - 11 UNC	1.18	3.06	5.13	6.69	3.35	10.16	9.88	-	1.06	57	160.9	500	LK76/102/127

ARS Series - Two-Way Direct Mount

Model Code Breakdown

ARS3 #40 - 1 1 D B -

VALVE SERIES

ARS3	Code 61
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OPTIONAL LOCKING KIT
(See pages 49)

CONNECTION TYPE/SIZE

ADAPTER & STEM SEALS

B	Buna
V	Viton

BODY & ADAPTER MATERIAL

1	Carbon Steel
2	316 Stainless Steel

BALL & STEM SEATS

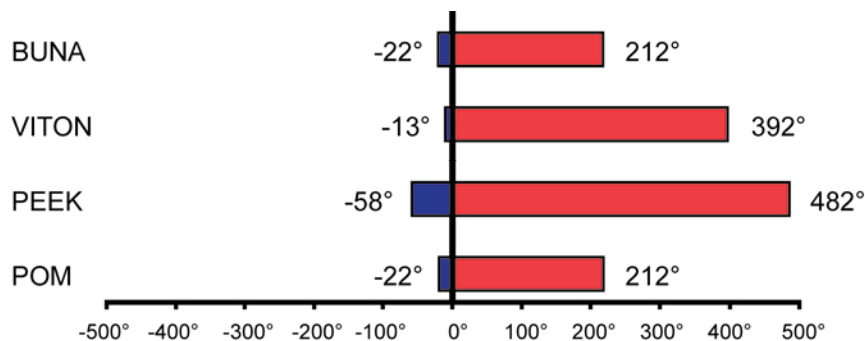
D	POM- Standard
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BALL & STEM MATERIAL

1	Carbon Steel
2	316 Stainless Steel

Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

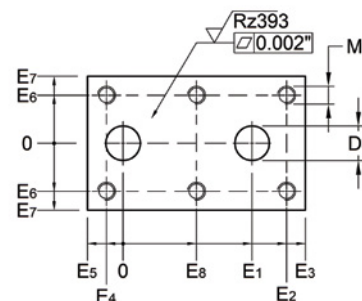
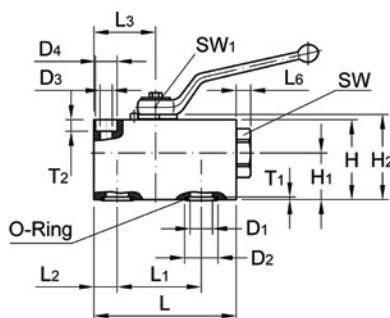
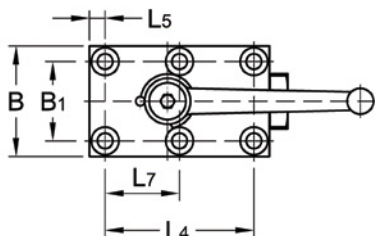


All temperatures are in degrees Fahrenheit.

APK Series - Two-Way Manifold Mount



- Carbon steel with zinc nickel plating
- POM seats and Buna O-rings standard on carbon steel valves (-11DB)
- Handle shown in Handle Code field supplied standard
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



APK SERIES																									
PART NUMBER	DN (NOMINAL SIZE IN MM)	L	L1	L2	L3	L4	L5	L6	L7	B	B1	H	H1	H2	T1	T2	D1	D2	D3	D4	SW	SW1	HANDLE CODE (SEE PG 50-51)	WEIGHT (LBS)	PSI MAX
APK2#4-11DB	6	2.32	1.38	0.33	0.93	1.38	0.33	0.18	0.69	1.57	1.06	1.38	0.79	1.48	0.07	0.27	0.24	0.47	0.25	0.43	0.94	0.28	12	1.3	7250
APK2#6-11DB	10	2.87	1.73	0.39	1.14	2.17	0.30	0.28	1.08	2.17	1.57	1.77	0.96	1.91	0.07	0.31	0.37	0.59	0.33	N/A	1.26	0.31	13	2.6	7250
APK2#8-11DB	12	3.86	2.28	0.63	1.67	3.27	0.30	0.39	1.63	2.36	1.77	2.17	1.26	2.30	0.07	0.31	0.49	0.98	0.33	N/A	1.42	0.39	14	5.0	7250
APK2#12-11DB	20	4.61	2.72	0.79	2.05	3.82	0.39	0.47	1.91	2.76	2.01	2.76	1.54	2.91	0.11	0.43	0.79	1.18	0.41	0.67	N/A	0.55	15	8.8	5800
APK2#16-11DB	25	5.43	3.19	0.94	2.44	4.53	0.39	0.28	2.26	3.15	2.36	3.15	1.81	3.31	0.11	0.43	0.94	1.38	0.41	0.67	1.97	0.55	15	12.8	5800
APK2#20-11DB	32	6.50	3.78	1.14	2.95	5.35	0.47	0.43	2.68	3.94	3.07	3.94	2.23	4.11	0.11	0.47	1.26	1.57	0.51	0.75	2.76	0.67	21	24.2	5800
APK2#24-11DB	40	6.89	4.41	1.12	3.33	4.41	1.12	0.98	2.20	5.12	3.74	3.94	2.07	4.11	0.11	0.69	1.50	1.91	0.67	1.02	N/A	0.67	21	33.6	5800

APK SERIES													
PART NUMBER	DN (NOMINAL SIZE IN MM)	D1	E1	E2	E3	E4	E5	E6	E7	E8	M	O-RING (MM)	LOCKING KIT # (SEE PG 48-49)
APK2#4-11DB	6	0.24	1.38	1.38	1.99	0.00	0.33	0.53	0.79	0.69	M6	7.50 X 2.50	LK4/6FF
APK2#6-11DB	10	0.37	1.73	2.07	2.48	0.10	0.39	0.79	1.08	0.98	M8	10.50 X 2.50	LK8/10FF
APK2#8-11DB	12	0.61	2.28	2.93	3.23	0.33	0.63	0.89	1.18	1.30	M8	20.50 X 2.50	LK12FF
APK2#12-11DB	20	0.79	2.72	3.43	3.82	0.39	0.79	1.00	1.38	1.52	M10	23.50 X 3.50	LK20/25FF
APK2#16-11DB	25	0.94	3.19	3.98	4.49	0.55	0.94	1.18	1.57	1.71	M10	28.50 X 3.50	LK20/25FF
APK2#20-11DB	32	1.26	3.78	4.69	5.35	0.67	1.14	1.54	1.97	2.01	M12	33.50 X 3.50	LK32/40/50FF
APK2#24-11DB	40	1.50	4.41	4.41	5.77	0.00	1.12	1.87	2.56	2.20	M16	42.00 X 3.50	LK32/40/50FF



APK Series - Two-Way Manifold Mount

Model Code Breakdown

APK2 #20 - 1 1 D B

VALVE SERIES

APK2	Manifold Mount 2-way
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CONNECTION SIZE

20	1/2"
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BODY & ADAPTER MATERIAL

1	Carbon Steel
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BALL & STEM MATERIAL

1	Carbon Steel
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ADAPTER & STEM SEALS

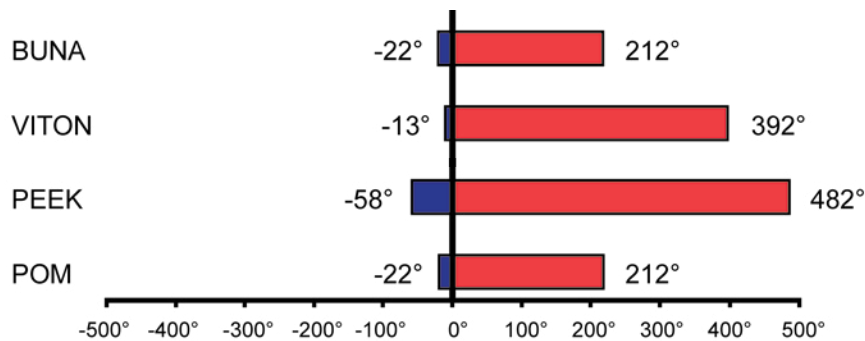
B	Buna- Standard
V	Viton

BALL & STEM SEATS

D	POM
P	PEEK

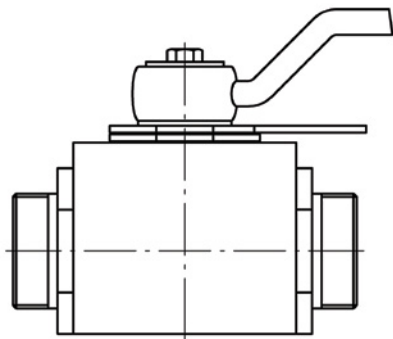
Please consult your system's seal manufacturer for recommendation of seal selection, as Anchor Fluid Power does not accept responsibility for seal selection.

MAXIMUM & MINIMUM WORKING TEMPERATURES FOR SEAL MATERIALS

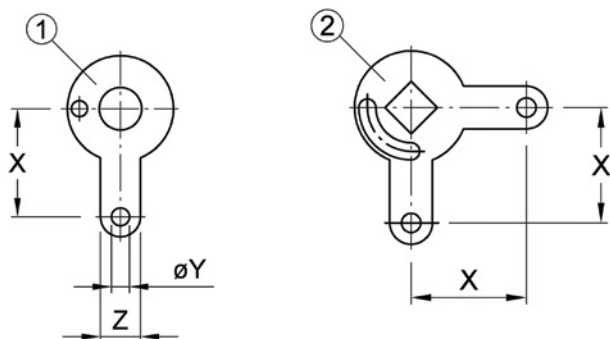


All temperatures are in degrees Fahrenheit.

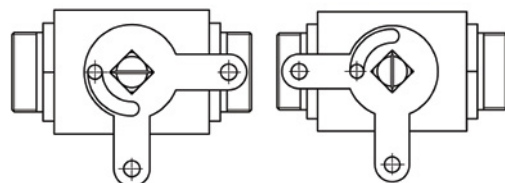
Locking Kits - for Standard Valves (2-way & 3-way)



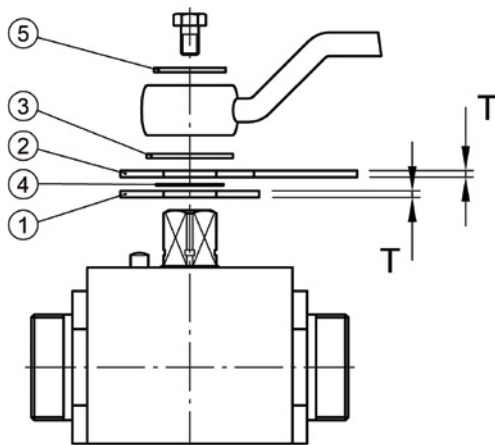
- Add suffix 'L' to the end of any valve part number to have locking kit installed prior to shipment
- Stainless steel
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



Switching Positions



Assembly



Locking device consisting of:

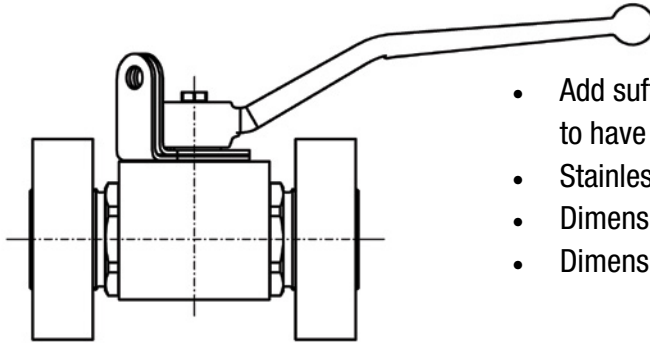
1. Mounting plate
2. Stop or actuation disc
3. Retaining ring
4. Thrust pad
5. Disc (DN32, DN40 and DN50)

STANDARD LOCKING KITS

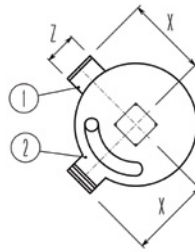
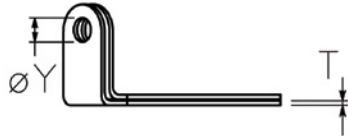
PART NUMBER	FITS DN (NOMINAL SIZE IN MM)	T	X	Y	Z
LK4/6	4/6	0.03	0.71	0.35	0.79
LK8/10	8/10	0.05	0.83	0.35	0.79
LK12	12	0.05	1.14	0.35	0.79
LK20/25	20/25	0.06	1.34	0.35	0.79
LK32/40/50	32/40/50	0.07	2.13	0.35	0.79

**All locking kits in stainless steel*

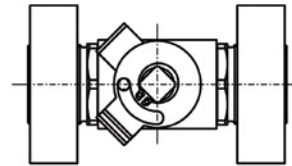
Locking Kits - for Flanged & Manifold Mount Valves (AEF, ABF, AES/F, ABS/F & APK Series)



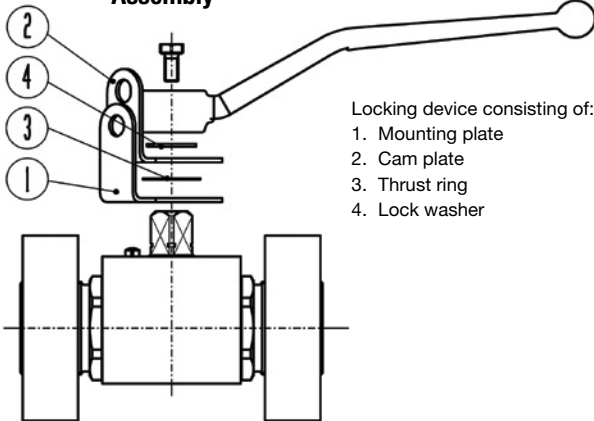
- Add suffix 'L' to the end of any valve part number to have locking kit installed prior to shipment
- Stainless steel
- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



Switching Positions



Assembly



- Locking device consisting of:
1. Mounting plate
 2. Cam plate
 3. Thrust ring
 4. Lock washer

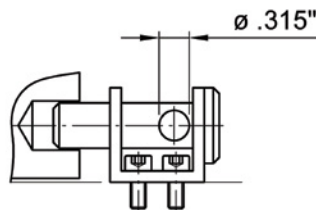
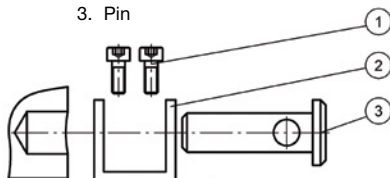
FLANGED VALVE LOCKING KITS

PART NUMBER	FITS DN (NOMINAL SIZE IN MM)	T	X	Y	Z
LK4/6FF	4/6	0.05	0.71	0.35	0.59
LK8/10FF	8/10	0.05	0.83	0.35	0.59
LK12FF	12	0.05	1.10	0.35	0.59
LK20/25FF	20/25	0.07	1.34	0.35	0.59
LK32/40/50FF	32/40/50	0.07	1.65	0.35	0.59

**All locking kits in stainless steel*

Locking device consisting of:

1. Bolts
2. Bracket
3. Pin

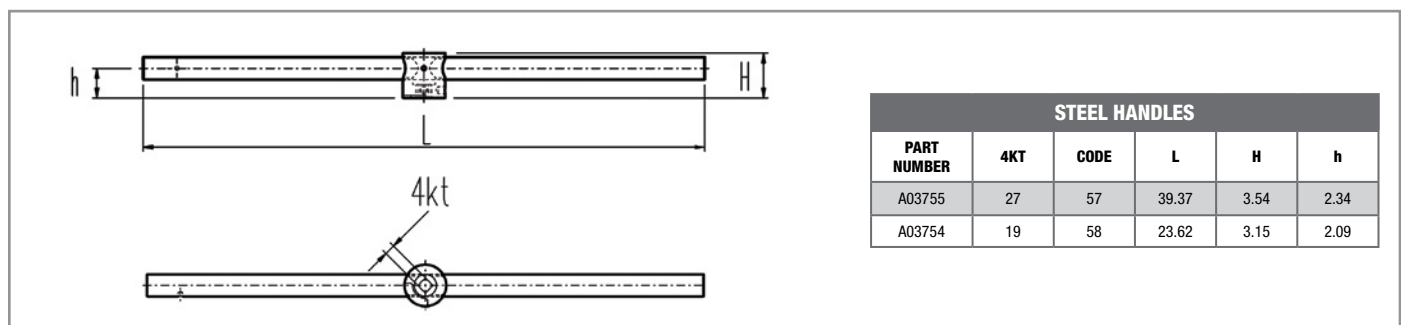
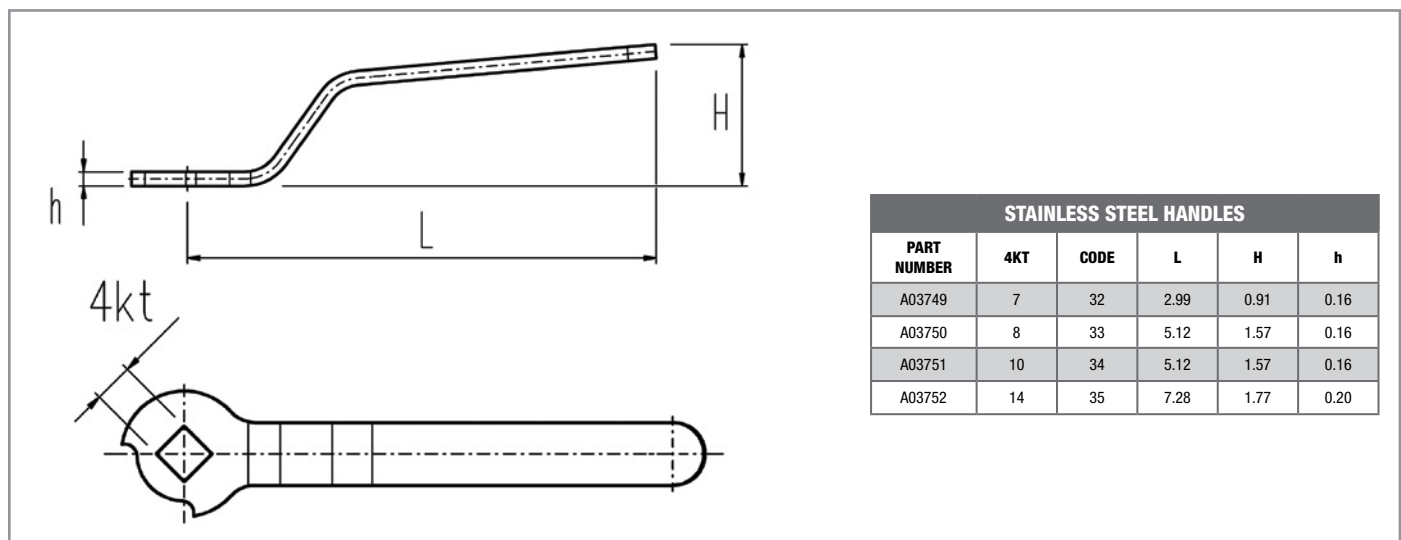
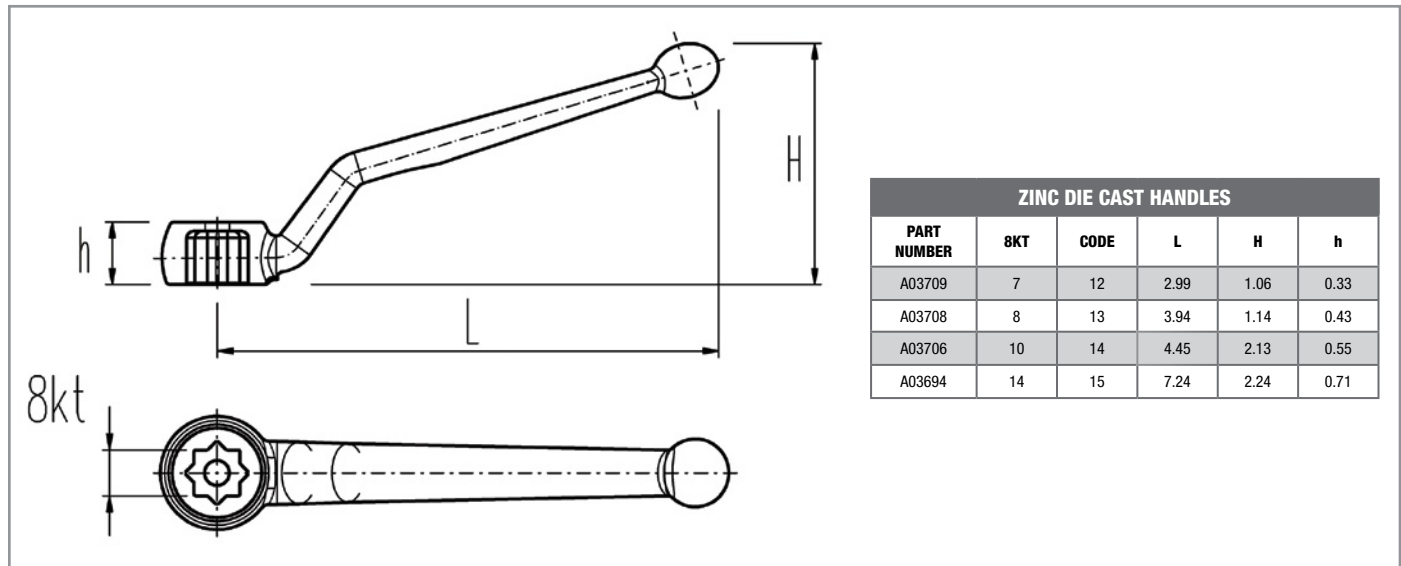


LOCKING KIT FOR 3" - 5" ARS SERIES

PART NUMBER
LK76/102/127

Handles

- Dimensions in inches unless otherwise noted
- Dimensions subject to change without notice



Handles

TEST POINT
ADAPTERS

INLINE
VALVES

BALL
VALVES

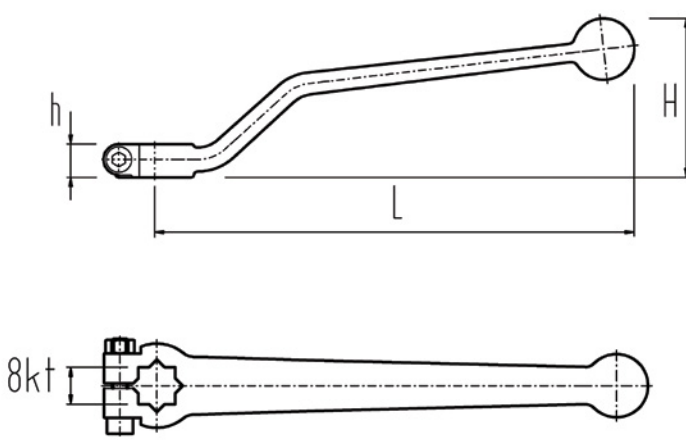
QUICK
COUPLINGS

WELD
COUPLINGS

SUCTION
AND RETURN

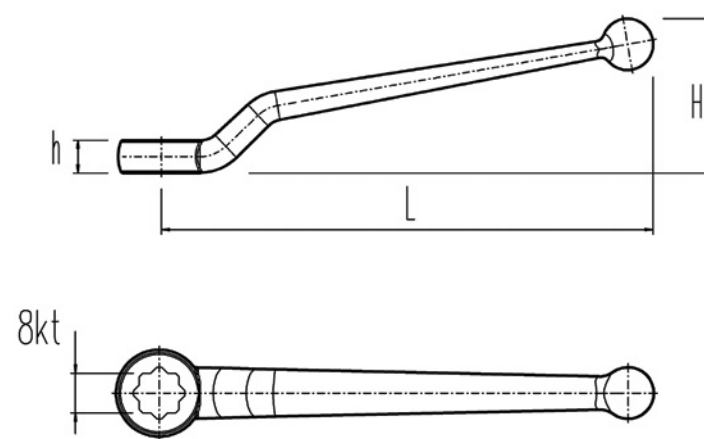
C/S
FLANGES

S/S
FLANGES



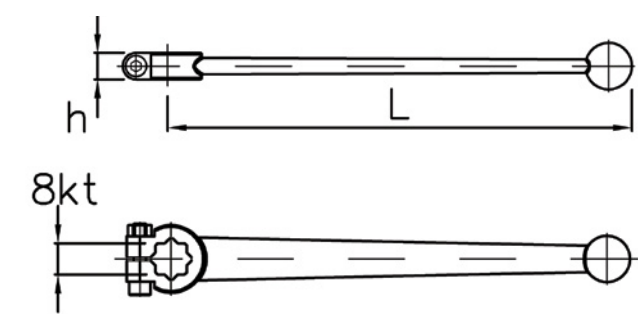
Technical drawing of an aluminum handle. The side view shows a handle with a curved section, with dimensions L (length), H (height), and h (height of the handle body). The end view shows the handle with a cross-section labeled 8kt.

ALUMINUM HANDLES					
PART NUMBER	8KT	CODE	L	H	h
A03020	8	4	3.58	0.94	0.35
A03636	9	54	5.12	1.85	0.43
A03009	12	7	7.36	2.13	0.51
A03004	14	8	7.36	2.44	0.51
A03027	17	9	10.91	2.76	0.55
A03028	19	10	10.20	3.19	0.65
A03610	22	11	14.21	2.68	0.71



Technical drawing of a steel and stainless steel handle. The side view shows a handle with a curved section, with dimensions L (length), H (height), and h (height of the handle body). The end view shows the handle with a cross-section labeled 8kt.

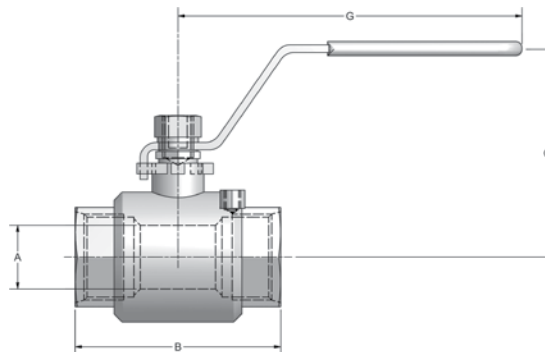
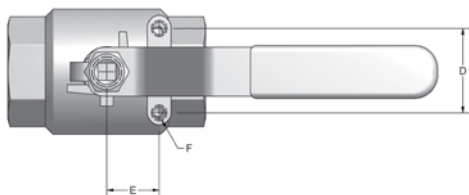
STEEL AND STAINLESS STEEL* HANDLES					
PART NUMBER	8KT	CODE	L	H	h
A03804	7	16	3.78	1.57	0.35
A03803	8	17	3.78	1.57	0.35
A03414	10	19	4.57	1.89	0.49
A03634	14	20	7.36	2.13	0.51
A03440	17	21	8.31	2.60	0.55
A03758	17*	37	8.31	2.60	0.55
A03539	17	22	12.60	2.99	0.67
A03759	17*	38	12.60	2.99	0.67
A03548	19	23	12.60	2.99	0.67



Technical drawing of an aluminum handle. The side view shows a handle with a straight section, with dimensions L (length) and h (height). The end view shows the handle with a cross-section labeled 8kt.

ALUMINUM HANDLES				
PART NUMBER	8KT	CODE	L	h
A03029	11	41	6.93	0.47
A03030	12	42	7.87	0.55
A03031	14	43	7.87	0.51
A03005	17	44	9.45	0.55
A03032	19	45	10.98	0.63
A03620	22	46	12.64	0.75
A03010	24	47	12.64	0.75

LV2B Series - 1000 WOG Stainless Steel



- All stainless steel construction
- Locking handles standard
- Ideal for suction, pressure and return lines
- Available in NPT & SAE threads
- Mounting holes standard on SAE #16 - #64
- See page 78 for Limit Switch and Proximity Sensor accessories

LV2B SERIES - NPT							
SIZE	A	B	C	D	E	F UNC	G
1/4"	.36	2.13	2.13	1.12	.49	N/A	4.33
3/8"	.50	2.13	2.17	1.12	.49	N/A	4.33
1/2"	.59	2.24	2.28	1.12	.49	N/A	4.53
3/4"	.79	2.68	2.40	1.12	.49	N/A	4.53
1"	.98	3.15	3.03	1.38	.91	N/A	5.04
1-1/4"	1.26	3.58	3.19	1.48	1.00	N/A	5.04
1-1/2"	1.50	4.06	3.54	1.48	1.00	N/A	6.10
2"	1.97	4.88	4.25	1.50	1.00	N/A	6.10
2-1/2"	2.56	6.30	5.20	N/A	N/A	N/A	9.06
3"	3.15	7.28	5.71	N/A	N/A	N/A	9.06

LV2B SERIES - SAE							
SIZE	A	B	C	D	E	F UNC	G
#4	.35	2.40	2.13	1.12	.49	N/A	4.33
#6	.47	2.40	2.17	1.12	.49	N/A	4.33
#8	.59	2.52	2.28	1.12	.49	N/A	4.53
#12	.79	3.23	2.40	1.12	.49	N/A	4.53
#16	.98	3.62	3.03	1.38	.91	1/4-20	5.04
#20	1.26	3.96	3.19	1.48	1.00	1/4-20	5.04
#24	1.50	4.23	3.54	1.48	1.00	1/4-20	6.10
#32	1.97	4.90	4.25	1.50	1.00	1/4-20	6.10
#40	2.56	6.30	5.20	2.25	1.18	1/4-20	9.06
#48	3.15	7.28	5.71	2.76	1.18	1/4-20	9.06
#64	3.93	8.80	7.11	2.76	1.18	1/4-20	13.00

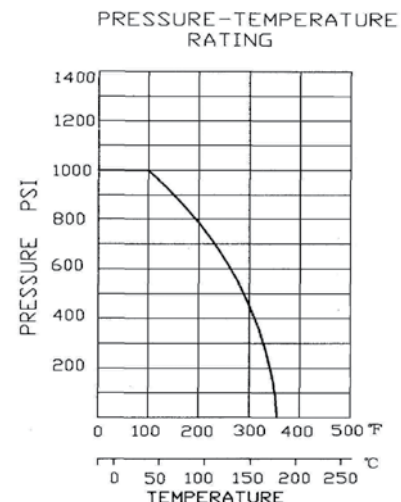
MODEL CODE:

LV2B N 1/2" -2T

THREAD TYPE (N-NPT; S-SAE)

THREAD SIZE (EX. N1/2"; S#8)

COMPONENT MATERIALS		
COMPONENT	MATERIAL	QTY
VALVE BODY	ASTM A351 GR CF8M	1
TAILPIECE	ASTM A351 GR CF8M	1
BALL	ASTM A351 GR CF8M	1
STEM	316	1
BALL SEAT	PTFE	2
STEM SEAT	PTFE	1
STEM PACKING	PTFE	1
STEM GLAND	304	1
HANDLE	304	1
STEM LOCK WASHER	304	1
STEM NUT	304	1
HANDLE SLEEVE	VINYL	1
LOCK	304	1

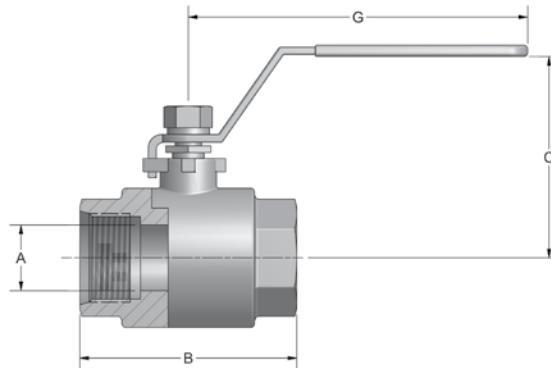
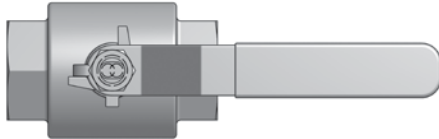


* 4"SAE - 500 PSI max for LV2BS#64-2T-MH

MV2B Series - 2000 WOG Stainless Steel



- All stainless steel construction
- Locking handles standard
- Ideal for suction, pressure and return lines
- Available in NPT & SAE threads



MV2B SERIES - NPT				
SIZE	A	B	C	G
1/4"	.36	2.13	2.13	4.33
3/8"	.50	2.13	2.17	4.33
1/2"	.59	2.24	2.28	4.53
3/4"	.79	2.76	2.40	4.53
1"	.98	3.25	3.03	5.04
1-1/4"	1.26	3.58	3.19	5.04
1-1/2"	1.50	4.06	3.54	6.10
2"	1.97	4.90	4.25	6.10

MV2B SERIES - SAE				
SIZE	A	B	C	G
#4	.35	2.40	2.13	4.33
#6	.47	2.40	2.17	4.33
#8	.59	2.52	2.28	4.53
#12	.79	3.23	2.40	4.53
#16	.98	3.62	3.03	5.04
#20	1.26	3.96	3.19	5.04
#24	1.50	4.23	3.54	6.10
#32	1.97	4.90	4.25	6.10

MODEL CODE:

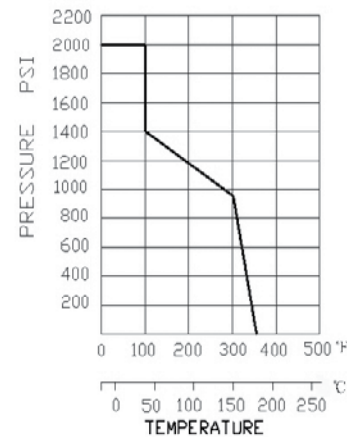
MV2B N 1/2" -2T

THREAD TYPE (N-NPT; S-SAE)

THREAD SIZE (EX. N1/2"; S#8)

COMPONENT MATERIALS		
COMPONENT	MATERIAL	QTY
VALVE BODY	ASTM A351 GR CF8M	1
TAILPIECE	ASTM A351 GR CF8M	1
BALL	ASTM A351 GR CF8M	1
STEM	316	1
BALL SEAT	PTFE	2
STEM SEAT	PTFE	1
STEM PACKING	PTFE	1
STEM GLAND	304	1
HANDLE	304	1
STEM LOCK WASHER	304	1
STEM NUT	304	1
HANDLE SLEEVE	VINYL	1
LOCK	304	1

PRESSURE-TEMPERATURE RATING



QUICK COUPLINGS



866-FLANGES | 513.527.4444 | Fax 513.527.4449
sales@anchorfluidpower.com | anchorfluidpower.com

Standard Quick Couplings	56
Specialty Quick Couplings	57
Clean Break Couplings	59
Dust Caps & Plugs	60

- Connection solutions from quick connect mono-couplings to multi-coupling systems.
- Applications including but not limited to automation, oil and gas, automotive, medical, aerospace and steel industries.
- Operating pressures ranging up to 43,500 psi.
- Many different end connections, materials and seals offered as standard options with custom/special options available upon request.

**TEST POINT
ADAPTERS**
**INLINE
VALVES**
**BALL
VALVES**
**QUICK
COUPLINGS**
**WELD
COUPLINGS**
**SUCTION
AND RETURN**
**C/S
FLANGES**
**S/S
FLANGES**

STANDARD COUPLINGS

Miniature Couplings for Low Pressure

Type 06-003, 07-003



AREAS OF APPLICATION	Pneumatic, chemical and pharmaceutical, medical and laboratory
MEDIA	Water, compressed air, fuel, technical gases, acids and alkalines, other fluids
FEATURES	Partially squirt-free, automatic lock, protection caps and plugs*, one-hand operation
SIZE (MM)	2,5, 3
HOUSING MATERIALS	Nickel-plated brass, stainless steel 1.4404 / 1.4571 (AISI 316 L / 316 Ti)
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 2,900 psi*, for negative pressure when connected
VALVE SYSTEMS AVAILABLE	• Both sides self sealing • One side self sealing • Through type

Low Pressure Universal Couplings

Series LP + SP



AREAS OF APPLICATION	Pneumatic, general engineering and systems constructions, chemical and pharma industry, medical and laboratory technology
MEDIA	Water, compressed air, fuel, lubricants and oils, technical gases, acids and alkalines, other fluids
FEATURES	Partially squirt free, axial safety lock* (SI), locking aid, automatic lock (for some sizes), ring grips*, protection caps and plugs*
SIZE (MM)	3, 4, 6, 7, 9, 12, 19, 32, 50
HOUSING MATERIALS	Zinc-plated steel, passivated brass, chrome-plated brass, stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 2,900 psi*, for negative pressure when connected (except n. b. 32 / 50)
VALVE SYSTEMS AVAILABLE	• Both sides self sealing • One side self sealing • Through type

Low Pressure Plastic Couplings

Series KL



AREAS OF APPLICATION	Air and liquid applications, Battery filling, Medical industry, Chemical industry, Laboratory technology
MEDIA	Water, air, weak acids and alkalines
FEATURES	Low weight, axial safety lock (SI)*, weather and corrosion resistant, protection caps and plugs*
SIZE (MM)	6, 12, 30
HOUSING MATERIALS	PA 11 / 12, PP, POM
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 175* psi
VALVE SYSTEMS AVAILABLE	• Both sides self sealing • One side self sealing • Through type

Non-interchangeable Low Pressure Couplings

Series UF



AREAS OF APPLICATION	Technical gases, to differentiate supply and return lines, controls, welding gas connections
MEDIA	Water, fluids, compressed air, technical gases (nitrogen, oxygen, etc), fuel gas
FEATURES	Non-interchangeable triangular or square profile, axial safety lock (SI)*, ring grips*, protection caps*
SIZE (MM)	6, 7, 12, 19, 32
HOUSING MATERIALS	Passivated brass, chrome-plated brass, stainless steel 1.4404 / 1.4571 (AISI 316 L / 316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 580 psi*, for negative pressure when connected (except n. b. 32)
VALVE SYSTEMS AVAILABLE	• Both sides self sealing • One side self sealing • Through type

*Dependent on chosen materials and seals. *Feature is optional, consult factory for details.

Couplings for Medium Pressure

Series MD



AREAS OF APPLICATION	Engineering, hydraulic controls, hydraulic tools, general line extension, fuel lines, test connections for vehicle hydraulics, autoclaves
MEDIA	Hydraulic fluids, water, acids and alkalines, steam, gases
FEATURES	Axial safety lock ⁺ , ring grips ⁺ , pressure-tight protection cap ⁺
SIZE (MM)	6, 7, 12, 19, 25, 32, 50
HOUSING MATERIALS	Zinc-plated steel / oil- burnished steel, passivated brass, stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 3,625 psi*, for negative pressure when connected
VALVE SYSTEMS AVAILABLE	Both sides self sealing, one side self sealing, through type

Couplings for High Pressure

Series HP



AREAS OF APPLICATION	High pressure hydraulics, engineering, autoclaves, high pressure test benches, hydraulic clamping, offshore applications, core pulling hydraulics, nuclear power stations, steel work
MEDIA	Hydraulic liquids, chemical substances, water, gases
FEATURES	Highest pressure resistance, robust construction, radial protection against vibration, axial safety lock (SI) ⁺ , ring valves ⁺
SIZE (MM)	2.5, 4, 6, 10, 16, 20, 32, 50
HOUSING MATERIALS	Oil-burnished steel, stainless steel 1.4404 /1.4571/1.4418 (AISI 316 L /316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 29,000 psi*, for negative pressure when connected (higher pressures upon request)
VALVE SYSTEMS AVAILABLE	Both sides self sealing, one side self sealing, through type, ring valves

SPECIALTY COUPLINGS

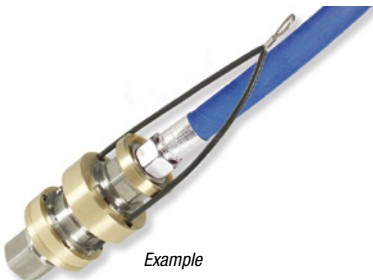
Compressed Air Tool Couplings

Series LT



AREAS OF APPLICATION	Tool connection, vehicle assembly
MEDIA	Compressed air
FEATURES	Low weight, high flow rate, connectable with different adaptor systems, scratch protection
SIZE (MM)	6.5, 9, 11
HOUSING MATERIALS	Impact-resistant plastic/hard-coated aluminum
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 170 psi*
VALVE SYSTEMS AVAILABLE	One side self sealing

Emergency-Release Couplings



AREAS OF APPLICATION	For almost all series: filling and emptying of tank facilities, filling of specialty chemicals, vapor recovery pipes, loading technology rail/road
MEDIA	Light acids and alkalines, specialty chemicals, fuels
FEATURES	Non-destructive separation of the line when exceeding a maximum permissible tensile force, again available immediately, separation forces from 160 N*
SIZE (MM)	6 - 65
HOUSING MATERIALS	Steel chemically nickel-plated, passivated brass, hard-coated aluminum, stainless steel 1.440/1.4571 (AISI 316 L/316 Ti)
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 22,900 psi*
VALVE SYSTEMS AVAILABLE	One or both-sides self sealing clean break technology (minimal loss or ingress during operation)

*Dependent on chosen materials and seals. *Feature is optional, consult factory for details.

QUICK COUPLINGS

Dialysis Couplings

Type 22-006



AREAS OF APPLICATION	Medical technology, connection to dialysis appliances and dialysis filters
MEDIA	Water, sterilization substances
FEATURES	Connectable with internationally standardized adaptors, FDA approved materials, easy cleaning
SIZE (MM)	6
HOUSING MATERIALS	Polypropylene, PVDF, stainless steel 1.4404 /1.4571 (AISI 316 L /316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 87 psi*
VALVE SYSTEMS AVAILABLE	One-sided self sealing, through type

High Temperature Couplings

Series 11



AREAS OF APPLICATION	Heating systems, mold heating, heat transfer systems
MEDIA	Thermal oil up to 590 °F
FEATURES	Squirt-free, double lever lock, designed to tolerate heavy contamination, special seals, isolated grips and buttons. Hand grip optional.
SIZE (MM)	12, 19
HOUSING MATERIALS	Heat resistant and burnished steel
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 230 psi*
VALVE SYSTEMS AVAILABLE	Both sides self sealing

Couplings for Cryogenics

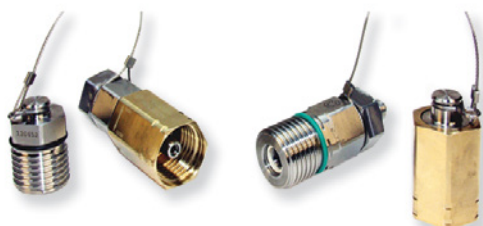
Series TT (WALcryo)



AREAS OF APPLICATION	Cryogenic applications: research, development and laboratory technology, recycling, production engineering, plastic processing, food industry, medicine
MEDIA	Cryogenic substances e.g. liquid nitrogen down to -196 °C
FEATURES	TT-009: Automatic lock by bajonet TT-013: Automatic lock with double lever locking
SIZE (MM)	9, 13
HOUSING MATERIALS	Plastic, brass and stainless steel
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 230 psi*
VALVE SYSTEMS AVAILABLE	Through type, one side self sealing, n. b. 13 both sides self sealing

High Pressure Screw Type Couplings

Series SH



AREAS OF APPLICATION	For offshore applications, diver operated
MEDIA	Hydraulic liquids, water-soluble emulsions
FEATURES	Version -Y44: for hose extension, version -Y45: for panel mounting, connection/disconnection under pressure, squirt-free, bulkhead mounting available, pressure tight caps*
SIZE (MM)	6, 10, 16, 25
HOUSING MATERIALS	Stainless steel 1.4404 (AISI 316 L), bronze, duplex, nitronic 50
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 15,000 psi*
VALVE SYSTEMS AVAILABLE	Both sides self sealing

*Dependent on chosen materials and seals. *Feature is optional, consult factory for details.

Universal Subassembly Elements

Series 85, Series 57



AREAS OF APPLICATION	General engineering, machine tool industry
MEDIA	Hydraulic fluids, emulsions
FEATURES	Cartridge elements for customers' cavities, squirt-free, high coupling frequency possible, applicable for pressure difference up to 580 psi*, robust construction
SIZE (MM)	Series 85: 6, 10, 57: 6, 8, 12, 16
HOUSING MATERIALS	Series 85: oil-burnished steel; plated steel, series 57: stainless steel 1.4104 (AISI 430 F)
MAX. STATIC WORKING PRESSURE CONNECTED	Series 85: up to 3,480 psi*, series 57: up to 2,900 psi*
VALVE SYSTEMS AVAILABLE	Both sides self sealing clean break technology (minimal loss or ingress during operation)

CLEAN BREAK COUPLINGS

Low Pressure Clean Break Couplings

Series CT



AREAS OF APPLICATION	General constructions, chemical industry, pharmaceutical industry, tank loading/unloading, engineering, thermal oil
MEDIA	Water, oils, chemical fluids, non-lubricating substances, gases
FEATURES	Auto lock, squirt-free, low coupling force, connectable against residual pressures, high flow rate, ring grips*, protection caps*
SIZE (MM)	3, 5, 7, 9, 12, 19
HOUSING MATERIALS	Stainless steel 1.4307 (AISI 304 L)
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 930 psi*, for negative pressure when connected
VALVE SYSTEMS AVAILABLE	Both sides self sealing clean break technology (minimal loss or ingress during operation)

Low Pressure Clean Break Couplings

Series CN



AREAS OF APPLICATION	Chemical industry, pharmaceutical industry, vehicle loading/unloading, hose stations, cooling circuit
MEDIA	Chemical fluids, non-lubricating substances, demineralized water, gases, solvents
FEATURES	Squirt-free, curved lock, connectable against residual pressure, compact design, non-interchangeable design through mechanical coding*, ring grips*
SIZE (MM)	25, 40, 50, 80, 100
HOUSING MATERIALS	Stainless steel 1.4571 (AISI 316 Ti, Hastelloy)
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 360 psi*, for negative pressure when connected
VALVE SYSTEMS AVAILABLE	Both sides self sealing clean break technology (minimal loss or ingress during operation)

Low Pressure Clean Break Ball Face Couplings

Series BF



AREAS OF APPLICATION	Chemical industry, pharmaceutical industry, tank filling, vehicle loading/unloading
MEDIA	Chemical fluids, non-lubricating substances, demineralized water, gases, solvents
FEATURES	Squirt-free, automatic lock, connectable against residual pressure, precentered sleeve for easy operation, simple external cleaning by cleaning position, additional seal prevents media from wetting the thread
SIZE (MM)	5, 9, 12
HOUSING MATERIALS	Stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 930 psi*
VALVE SYSTEMS AVAILABLE	Both sides self sealing clean break technology (minimal loss or ingress during operation)

*Dependent on chosen materials and seals. *Feature is optional, consult factory for details.

QUICK COUPLINGS

Low Pressure Clean Break Ball Face Couplings

Series BF (XL-Version)



AREAS OF APPLICATION	Chemical industry, loading and unloading of vehicles, also top-loading, filling plants and mixing stations, hose stations
MEDIA	Chemical fluids, non-lubricating substances, demineralized water, gases, solvents
FEATURES	squirt-free, separate connection and valve opening process, automatic locking with safety confirmation, valve opening possible even under high pressure, easy to clean on the outside, safety operation (DN 25 + 50)
SIZE (MM)	25, 50
HOUSING MATERIALS	Stainless steel 1.4404/1.4571 (AISI 316 L/316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 580 psi*
VALVE SYSTEMS AVAILABLE	Both-sides self sealing clean break technology (minimal loss or ingress during operation)

Low Pressure Clean Break Cartridge Elements

Series CG



AREAS OF APPLICATION	Cooling of circuits in power modules (railway technology), proven in air-conditioning technology
MEDIA	Water, polyalphiolefin (PAO), other coolants
FEATURES	Vibration resistance per EN 61373 category 1-3 class B (railway approved), individual dirt protection in connected position, anti-twisting device. Available as hand operated version AND as cartridge version for automated connection.
SIZE (MM)	6, 9, 12, 16, 20, 25
HOUSING MATERIALS	Hard-coated aluminum, stainless steel 1.4307 (AISI 304L)
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 230 psi*
VALVE SYSTEMS AVAILABLE	Both sides self sealing clean break technology (minimal loss or ingress during operation)

High Pressure Clean Break Couplings

Series HC



AREAS OF APPLICATION	High pressure hydraulics, engineering, hydraulic units, high pressure test benches, hydraulic controls, steel industry
MEDIA	Hydraulic liquids on a mineral basis, HFA- and HFB liquids, self-lubricating media
FEATURES	Squirt-free, automatic lock, flat face closing valves, high pressure resistance, pressure relief valve*, dirt protected lock, protection cap*
SIZE (MM)	6, 8, 12, 16, 20
HOUSING MATERIALS	Zinc-plated steel, yellow chromated / phosphated steel. stainless steel 1.4404/1.4418/1.4571 (AISI 316 L / 316 Ti) or equivalent
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 9,500 psi*, for negative pressure when connected
VALVE SYSTEMS AVAILABLE	Both sides self sealing clean break technology (minimal loss or ingress during operation)

DUST PLUGS & CAPS

Accessories for Mono Couplings

Dust caps & Dust plugs



AREAS OF APPLICATION	Dust caps and dust plugs, parking stations, threaded hose connectors, adaptor
MEDIA	According to basic type and resistance requirements
FEATURES	Metal version = pressure-tight, plastic design = dirt protection
SIZE (MM)	4 - 50 mm
HOUSING MATERIALS	Steel, stainless steel, brass nickel-plated, PVC / PA / PUR
MAX. STATIC WORKING PRESSURE CONNECTED	Up to 29,000 psi*
VALVE SYSTEMS AVAILABLE	All protection caps and protection plugs with closed passage

**ANCHOR
FLUID POWER**

866-FLANGES | 513.527.4444 | Fax 513.527.4449

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INLINE VALVES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

BALL VALVES

QUICK COUPLINGS

WELD COUPLINGS

SUCTION AND RETURN

C/S FLANGES

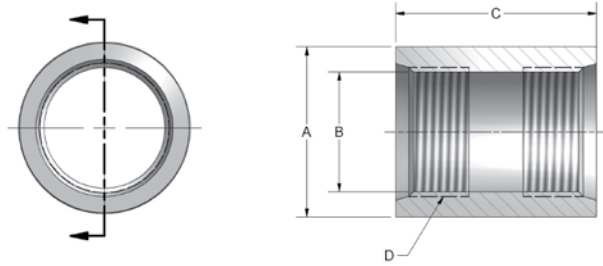
S/S FLANGES

WELD COUPLINGS



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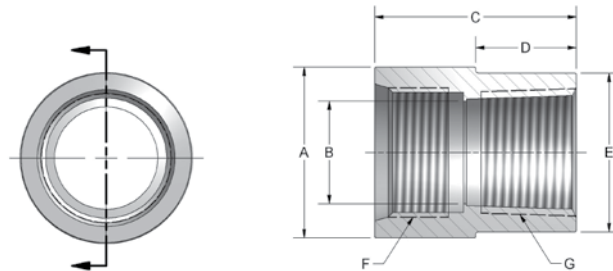
SAE Full Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

SAE TO SAE FULL COUPLING					
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D SAE UN-2B
830-4	830-4-SS	0.88	0.39	1.16	*7/16-20
830-6	830-6-SS	1.00	.509	1.25	*9/16-18
830-8	830-8-SS	1.25	.689	1.63	*3/4-16
830-10	830-10-SS	1.38	.806	1.50	*7/8-14
830-12	830-12-SS	1.50	.981	2.06	1 1/16-12
830-14	830-14-SS	1.63	1.106	2.00	1 3/16-12
830-16	830-16-SS	1.75	1.231	2.06	1 5/16-12
830-20	830-20-SS	2.25	1.544	2.06	1 5/8-12
830-24	830-24-SS	2.75	1.794	2.20	1 7/8-12
830-32	830-32-SS	3.25	2.419	2.50	2 1/2-12
830-40	830-40-SS	3.75	2.92	3.00	3-12
830-48	830-48-SS	4.40	3.42	3.00	3 1/2-12
830-64	830-64-SS	5.25	4.42	3.25	4 1/2-12

*UNF-2B

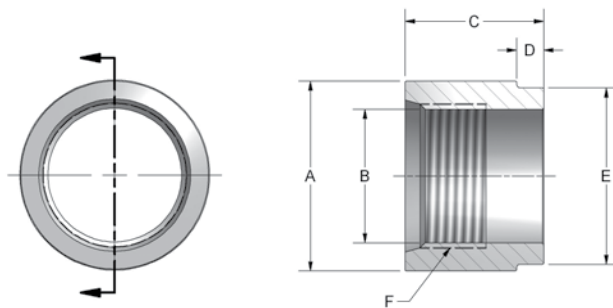
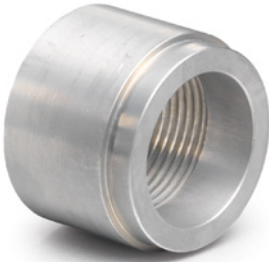


- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

SAE TO NPTF FULL COUPLING								
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F SAE UN-2B	G NPTF
825-4	825-4-SS	1.00	.389	1.27	.64	.875	*7/16-20	1/4-18
825-6	825-6-SS	1.13	.508	1.50	.75	1.000	*9/16-18	3/8-18
825-8	825-8-SS	1.25	.650	1.63	.82	1.125	*3/4-16	1/2-14
825-10-12	825-10-12-SS	1.50	.806	1.75	.88	1.375	*7/8-14	3/4-14
825-12	825-12-SS	1.50	.850	2.06	1.03	1.375	1 1/16-12	3/4-14
825-14-16	825-14-16-SS	1.75	1.050	2.15	1.08	1.625	1 3/16-12	1-11.5
825-16	825-16-SS	1.75	1.050	2.06	1.03	1.625	1 5/16-12	1-11.5
825-20	825-20-SS	2.25	1.420	2.06	1.03	2.125	1 5/8-12	1 1/4-11.5
825-24	825-24-SS	2.75	1.650	2.20	1.10	2.500	1 7/8-12	1 1/2-11.5
825-32	825-32-SS	3.25	2.125	2.50	1.25	3.000	2 1/2-12	2-11.5
825-40	825-40-SS	3.75	2.38	3.00	1.50	3.50	3-12	2 1/2-8
825-48	825-48-SS	4.40	3.00	3.00	1.50	4.00	3 1/2-12	3-8
825-64	825-64-SS	5.25	4.00	3.25	1.63	5.00	4 1/2-12	4-8

*UNF-2B

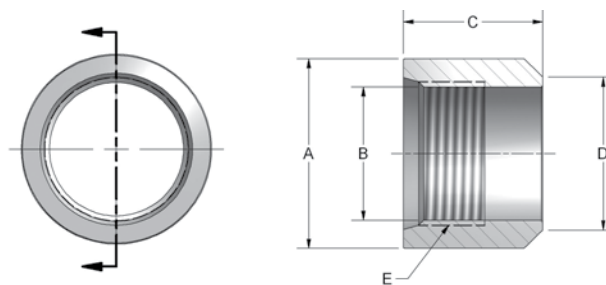
SAE Half Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

SAE HALF COUPLING							
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F SAE UN-2B
835-4	835-4-SS	.88	.389	1.00	.250	.750	*7/16-20
835-6	835-6-SS	1.00	.509	1.00	.250	.875	*9/16-18
835-8	835-8-SS	1.25	.689	1.06	.250	1.125	*3/4-16
835-10	835-10-SS	1.38	.806	1.06	.250	1.250	*7/8-14
835-12	835-12-SS	1.50	.981	1.28	.250	1.375	1 1/16-12
835-14	835-14-SS	1.63	1.106	1.25	.250	1.500	1 3/16-12
835-16	835-16-SS	1.75	1.231	1.28	.250	1.625	1 5/16-12
835-20	835-20-SS	2.25	1.544	1.28	.250	2.125	1 5/8-12
835-24	835-24-SS	2.75	1.794	1.28	.250	2.500	1 7/8-12
835-32	835-32-SS	3.25	2.419	1.50	.250	3.000	2 1/2-12
835-40	835-40-SS	3.75	2.92	2.00	.250	3.500	3-12
835-48	835-48-SS	4.40	3.42	2.25	.250	4.000	3 1/2-12
835-64	835-64-SS	5.25	4.42	2.25	.250	5.000	4 1/2-12

*UNF-2B



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

SAE HALF COUPLING BEVEL						
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E SAE UN-2B
835B-4	835B-4-SS	.88	.389	1.00	.570	*7/16-20
835B-6	835B-6-SS	1.00	.509	1.00	.690	*9/16-18
835B-8	835B-8-SS	1.25	.689	1.06	.870	*3/4-16
835B-10	835B-10-SS	1.38	.806	1.06	.990	*7/8-14
835B-12	835B-12-SS	1.50	.981	1.28	1.160	1 1/16-12
835B-14	835B-14-SS	1.63	1.106	1.25	1.290	1 3/16-12
835B-16	835B-16-SS	1.75	1.231	1.28	1.410	1 5/16-12
835B-20	835B-20-SS	2.25	1.544	1.28	1.720	1 5/8-12
835B-24	835B-24-SS	2.75	1.794	1.28	1.980	1 7/8-12
835B-32	835B-32-SS	3.25	2.419	1.50	2.600	2 1/2-12
835B-40	835B-40-SS	3.75	2.92	2.00	3.000	3-12
835B-48	835B-48-SS	4.40	3.42	2.25	3.500	3 1/2-12
835B-64	835B-64-SS	5.25	4.42	2.25	4.500	4 1/2-12

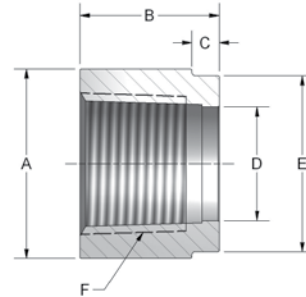
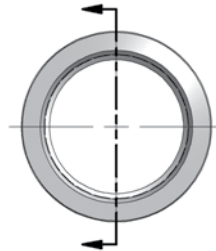
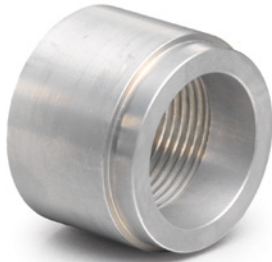
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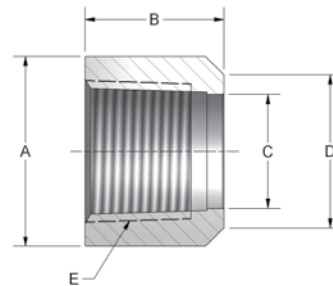
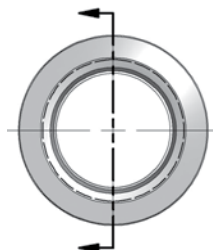
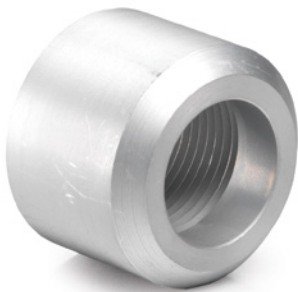
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NPTF Half Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

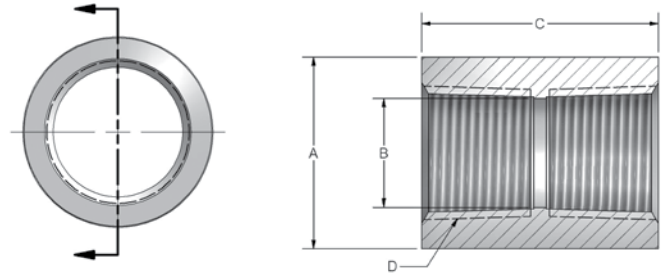
NPTF HALF COUPLING							
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F NPTF
845-4	845-4-SS	.88	1.06	.250	.391	.750	1/4-18
845-6	845-6-SS	1.00	1.00	.250	.563	.875	3/8-18
845-8	845-8-SS	1.25	1.06	.250	.650	1.125	1/2-14
845-12	845-12-SS	1.50	1.28	.250	.850	1.375	3/4-14
845-16	845-16-SS	1.75	1.28	.250	1.050	1.625	1-11.5
845-20	845-20-SS	2.25	1.28	.250	1.420	2.125	1 1/4-11.5
845-24	845-24-SS	2.75	1.28	.250	1.560	2.500	1 1/2-11.5
845-32	845-32-SS	3.25	1.50	.250	2.125	3.000	2-11.5
845-40	845-40-SS	3.75	2.00	.250	2.500	3.500	2 1/2-8
845-48	845-48-SS	4.25	2.25	.250	3.000	4.000	3-8
845-64	845-64-SS	5.25	2.25	.250	4.000	5.000	4-8



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

NPTF HALF COUPLING BEVEL						
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E NPTF
845B-4	845B-4-SS	.88	1.06	.391	.570	1/4-18
845B-6	845B-6-SS	1.00	1.00	.520	.690	3/8-18
845B-8	845B-8-SS	1.25	1.06	.650	.870	1/2-14
845B-12	845B-12-SS	1.50	1.28	.850	1.160	3/4-14
845B-16	845B-16-SS	1.75	1.28	1.050	1.410	1-11.5
845B-20	845B-20-SS	2.25	1.28	1.420	1.720	1 1/4-11.5
845B-24	845B-24-SS	2.75	1.28	1.560	1.980	1 1/2-11.5
845B-32	845B-32-SS	3.25	1.50	2.125	2.600	2-11.5
845B-40	845B-40-SS	3.75	2.00	2.500	3.100	2 1/2-8
845B-48	845B-48-SS	4.40	2.25	3.000	3.600	3-8
845B-64	845B-64-SS	5.25	2.25	4.000	4.450	4-8

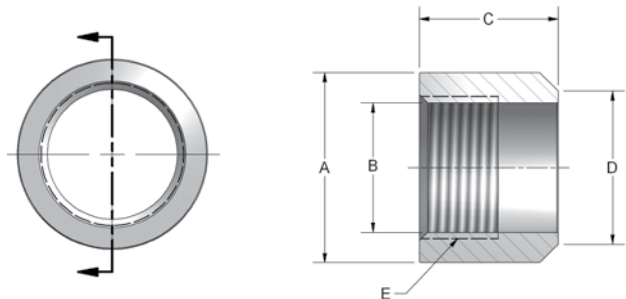
NPTF Full Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

NPTF TO NPTF FULL COUPLING					
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D NPTF
865-4	865-4-SS	.88	.391	1.25	1/4-18
865-6	865-6-SS	1.00	.520	1.50	3/8-18
865-8	865-8-SS	1.25	.650	1.85	1/2-14
865-12	865-12-SS	1.50	.850	1.85	3/4-14
865-16	865-16-SS	1.75	1.050	2.35	1-11.5
865-20	865-20-SS	2.25	1.420	2.35	1 1/4-11.5
865-24	865-24-SS	2.75	1.560	2.35	1 1/2-11.5
865-32	865-32-SS	3.25	2.125	2.35	2-11.5

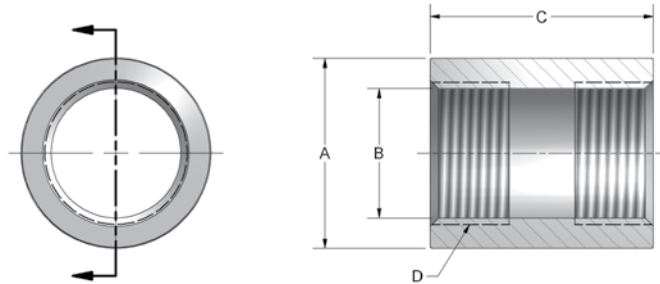
BSPP Half Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

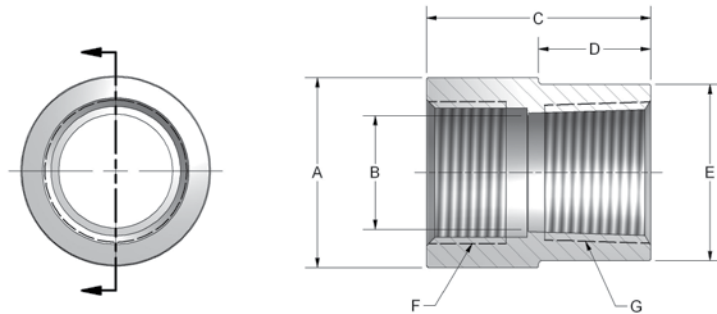
BSPP HALF COUPLING BEVEL						
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E BSPP
855B-4	855B-4-SS	.88	.451	1.00	.570	1/4-19
855B-6	855B-6-SS	1.00	.589	1.00	.690	3/8-19
855B-8	855B-8-SS	1.25	.734	1.06	.870	1/2-14
855B-12	855B-12-SS	1.50	.949	1.28	1.160	3/4-14
855B-16	855B-16-SS	1.75	1.193	1.28	1.410	1-11
855B-20	855B-20-SS	2.25	1.534	1.28	1.720	1 1/4-11
855B-24	855B-24-SS	2.75	1.766	1.28	1.980	1 1/2-11
855B-32	855B-32-SS	3.25	2.231	1.50	2.600	2-11

BSPP Full Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

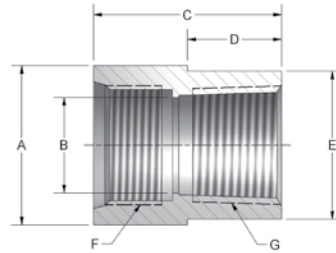
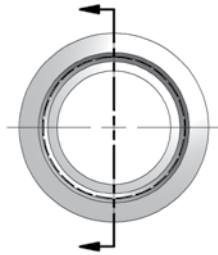
BSPP TO BSPP FULL COUPLING					
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D BSPP
850-4	850-4-SS	.88	.451	1.25	1/4-19
850-6	850-6-SS	1.00	.589	1.25	3/8-19
850-8	850-8-SS	1.25	.734	1.63	1/2-14
850-12	850-12-SS	1.50	.949	2.06	3/4-14
850-16	850-16-SS	1.75	1.193	2.06	1-11
850-20	850-20-SS	2.25	1.534	2.06	1 1/4-11
850-24	850-24-SS	2.75	1.766	2.20	1 1/2-11
850-32	850-32-SS	3.25	2.231	2.50	2-11



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

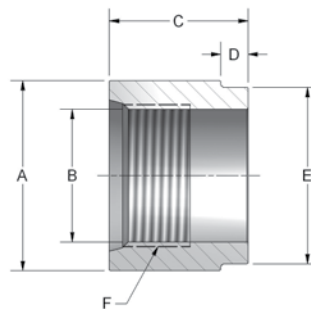
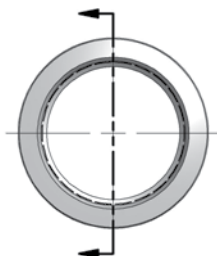
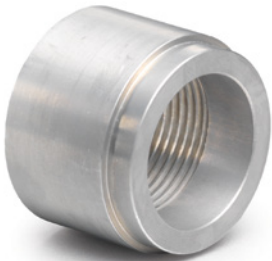
BSPP TO NPTF FULL COUPLING								
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F BSPP	G NPTF
860-4	860-4-SS	1.00	.408	1.27	.64	.875	1/4-19	1/4-18
860-6	860-6-SS	1.13	.507	1.50	.75	1.000	3/8-19	3/8-18
860-8	860-8-SS	1.25	.650	1.63	.82	1.125	1/2-14	1/2-14
860-12	860-12-SS	1.50	.850	2.06	1.03	1.375	3/4-14	3/4-14
860-16	860-16-SS	1.75	1.000	2.06	1.03	1.625	1-11	1-11.5
860-20	860-20-SS	2.25	1.450	2.06	1.03	2.125	1 1/4-11	1 1/4-11.5
860-24	860-24-SS	2.75	1.681	2.20	1.10	2.500	1 1/2-11	1 1/2-11.5
860-32	860-32-SS	3.25	2.125	2.50	1.25	3.000	2-11	2-11.5

ISO 6149 Metric Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

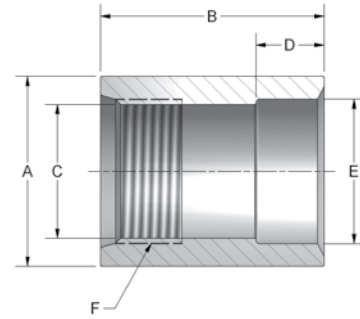
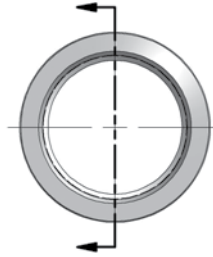
ISO 6149 TO NPTF FULL COUPLING								
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F ISO 6149 METRIC	G NPTF
885-M27-12	885-M27-12-SS	1.50	.850	2.06	1.03	1.375	M27 X 2	3/4-14
885-M33-16	885-M33-16-SS	1.75	1.050	2.06	1.03	1.625	M33 X 2	1-11.5
885-M42-20	885-M42-20-SS	2.25	1.420	2.06	1.03	2.125	M42 X 2	1 1/4-11.5
885-M48-24	885-M48-24-SS	2.75	1.650	2.20	1.10	2.500	M48 X 2	1 1/2-11.5
885-M60-32	885-M60-32-SS	3.25	2.125	2.50	1.25	3.000	M60 X 2	2-11.5



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

ISO 6149 HALF COUPLING							
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F ISO 6149 METRIC
880-M27	880-M27-SS	1.50	.981	1.28	.250	1.375	M27 X 2
880-M33	880-M33-SS	1.75	1.231	1.28	.250	1.625	M33 X 2
880-M42	880-M42-SS	2.25	1.544	1.28	.250	2.125	M42 X 2
880-M48	880-M48-SS	2.75	1.794	1.28	.250	2.500	M48 X 2
880-M60	880-M60-SS	3.25	2.419	1.50	.250	3.000	M60 X 2

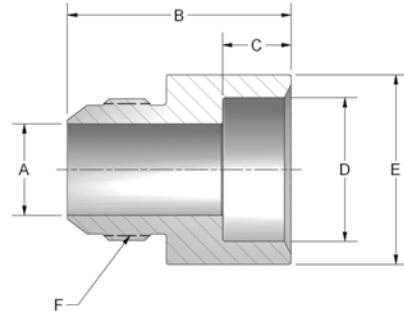
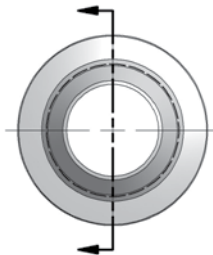
Socket Weld Couplings



- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

SAE TO SOCKET WELD PIPE COUPLING							
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F SAE UN-2B
820-8	820-8-SS	1.25	1.63	.689	.560	.855	*3/4-16
820-12	820-12-SS	1.50	2.06	.981	.560	1.062	1 1/16-12
820-16	820-16-SS	1.75	2.06	1.231	.630	1.328	1 5/16-12
820-20	820-20-SS	2.25	2.06	1.544	.690	1.672	1 5/8-12
820-24	820-24-SS	2.75	2.20	1.794	.750	1.922	1 7/8-12
820-32	820-32-SS	3.25	2.50	2.419	.875	2.406	2 1/2-12
820-40	820-40-SS	3.75	3.00	2.919	1.000	2.910	3-12
820-48	820-48-SS	4.40	3.00	3.419	1.25	3.550	3 1/2-12
820-64	820-64-SS	5.25	3.25	4.419	1.250	4.55	4 1/2-12

*UNF-2B

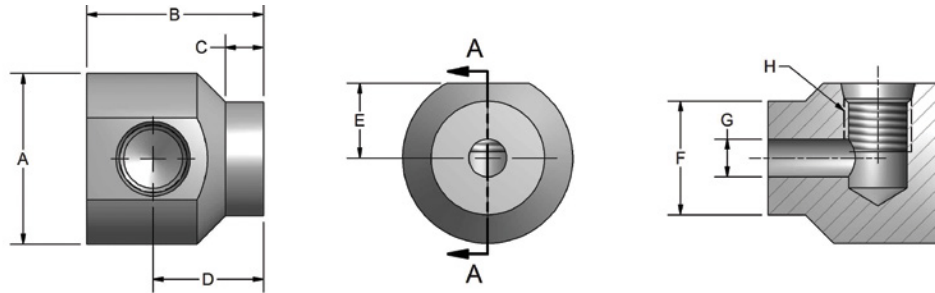


- AISI 1020 Carbon Steel
- 316L Stainless Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

SOCKET WELD PIPE TO MALE JIC COUPLING							
CARBON STEEL PART NO.	STAINLESS STEEL PART NO.	A	B	C	D	E	F THREAD
840-8	840-8-SS	.391	1.63	.560	.855	1.25	*3/4-16
840-12	840-12-SS	.609	1.89	.560	1.062	1.50	1 1/16-12
840-16	840-16-SS	.844	2.06	.630	1.328	1.75	1 5/16-12
840-20	840-20-SS	1.078	2.06	.690	1.672	2.25	1 5/8-12
840-24	840-24-SS	1.312	2.20	.750	1.922	2.75	1 7/8-12
840-32	840-32-SS	1.781	2.50	.875	2.406	3.25	2 1/2-12

*UNF-2A

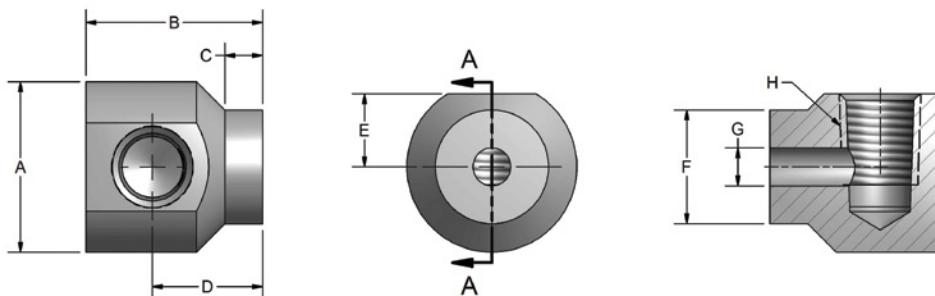
90 Degree Weld Couplings



- AISI 1020 Carbon Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

SAE TO WELD 90 DEGREE COUPLING								
PART NUMBER	A	B	C	D	E	F	G	H SAE UN-2B
83590-4	1.13	1.17	0.250	0.729	0.493	0.750	0.250	7/16-20*
83590-6	1.25	1.25	0.250	0.746	0.528	0.875	0.295	9/16-18*
83590-8	1.75	1.53	0.250	0.907	0.646	1.125	0.394	3/4-16*
83590-10	1.88	1.55	0.250	0.863	0.656	1.250	0.492	7/8-14*
83590-12	2.25	2.05	0.375	1.305	0.784	1.375	0.630	1 1/16-12
83590-14	2.38	1.96	0.375	1.143	0.791	1.500	0.709	1 3/16-12
83590-16	2.63	2.32	0.375	1.449	0.890	1.625	0.827	1 5/16-12
83590-20	3.13	2.75	0.375	1.622	1.067	2.125	1.062	1 5/8-12
83590-24	3.63	3.31	0.500	1.939	1.284	2.500	1.300	1 7/8-12
83590-32	4.63	4.00	0.500	2.374	1.532	3.000	1.770	2 1/2-12

*UNF-2B



- AISI 1020 Carbon Steel
- Includes individual thread identification marking
- Additional thread sizes and configurations available

NPTF TO WELD 90 DEGREE COUPLING								
PART NUMBER	A	B	C	D	E	F	G	H NPTF
84590-4	1.13	1.17	0.250	0.729	0.481	0.750	0.250	1/4-18
84590-6	1.25	1.25	0.250	0.746	0.488	0.875	0.295	3/8-18
84590-8	1.75	1.53	0.250	0.943	0.736	1.125	0.394	1/2-14
84590-12	2.25	2.05	0.375	1.305	0.965	1.375	0.630	3/4-14
84590-16	2.63	2.32	0.375	1.449	1.114	1.625	0.827	1-11.5
84590-20	3.13	2.75	0.375	1.605	1.299	2.125	1.062	1 1/4-11.5
84590-24	3.63	3.31	0.500	1.939	1.520	2.500	1.300	1 1/2-11.5
84590-32	4.63	4.00	0.500	2.374	1.961	3.000	1.770	2-11.5



INLINE VALVES

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The background is a clean, solid white color.

BALL VALVES

QUICK COUPLINGS

WELD COUPLINGS

SUCTION AND RETURN

C/S FLANGES

S/S FLANGES

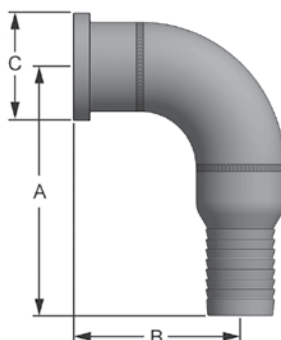
SUCTION & RETURN



Hose Barb to SAE Flange Head	72
SAE Thread to Tank Coupling	74
SAE Thread to Flange Head	75
Hose Barb to SAE Thread	76
Suction and Return Line Valves	78

Hose Barb to SAE Flange Head

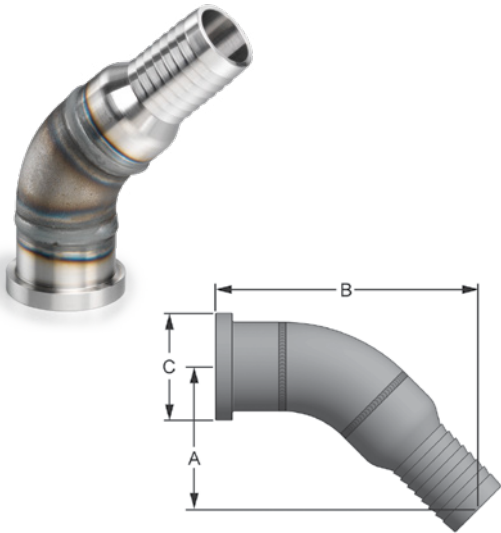
- Suction to 400 psi max
- Carbon steel natural finish
- Material certificates available upon request
- Flange head manufactured to SAE J518-1



90° HOSE BARB TO SAE FLANGE HEAD								
	HOSE BARB SIZE	FLANGE SIZE	A	B	C	HB ID	FH ID	SPLIT FLANGE†
20HB-20SF90	1.25	1.25	4.64	3.14	2.00	1.03	1.28	20SFO
24HB-20SF90	1.50	1.25	4.64	3.14	2.00	1.28	1.28	20SFO
20HB-24SF90	1.25	1.50	5.00	3.50	2.38	1.03	1.50	24SFO
24HB-24SF90	1.50	1.50	5.00	3.50	2.38	1.28	1.50	24SFO
32HB-24SF90	2.00	1.50	5.00	3.50	2.38	1.75	1.50	24SFO
40HB-24SF90	2.50	1.50	5.00	3.50	2.38	2.17	1.50	24SFO
24HB-32SF90	1.50	2.00	6.19	4.25	2.81	1.28	1.94	32SFO
32HB-32SF90	2.00	2.00	6.19	4.25	2.81	1.75	1.94	32SFO
40HB-32SF90	2.50	2.00	6.19	4.25	2.81	2.17	1.94	32SFO
48HB-32SF90	3.00	2.00	6.19	4.25	2.81	2.72	1.94	32SFO
24HB-40SF90	1.50	2.50	7.50	5.50	3.31	1.28	2.33	40SFO
32HB-40SF90	2.00	2.50	7.50	5.50	3.31	1.75	2.33	40SFO
40HB-40SF90	2.50	2.50	7.50	5.50	3.31	2.17	2.33	40SFO
48HB-40SF90	3.00	2.50	7.50	5.50	3.31	2.72	2.33	40SFO
64HB-40SF90	4.00	2.50	8.13	5.50	3.31	3.69	2.33	40SFO
32HB-48SF90	2.00	3.00	8.75	6.38	4.00	1.75	3.00	48SFO
40HB-48SF90	2.50	3.00	8.75	6.38	4.00	2.17	3.00	48SFO
48HB-48SF90	3.00	3.00	8.75	6.38	4.00	2.72	3.00	48SFO
64HB-48SF90	4.00	3.00	8.75	6.38	4.00	3.69	3.00	48SFO
64HB-56SF90	4.00	3.50	10.75	9.25	4.50	3.69	3.38	56SFO
40HB-64SF90	2.50	4.00	10.75	7.75	5.00	2.17	3.83	64SFO
48HB-64SF90	3.00	4.00	10.75	7.75	5.00	2.72	3.83	64SFO
64HB-64SF90	4.00	4.00	10.75	7.75	5.00	3.69	3.83	64SFO

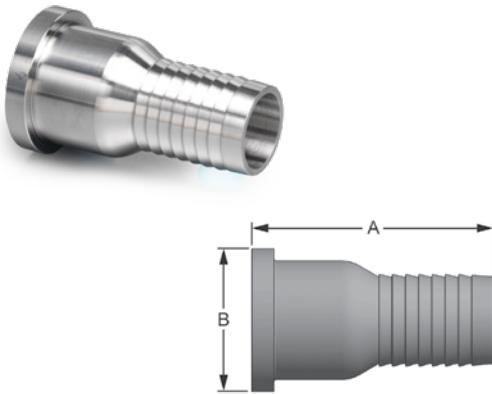
† Optional Split Flange sold separately





- Suction to 400 psi max
- Carbon steel natural finish
- Material certificates available upon request
- Flange head manufactured to SAE J518-1

45° HOSE BARB TO SAE FLANGE HEAD								
	HOSE BARB SIZE	FLANGE SIZE	A	B	C	HB ID	FH ID	SPLIT FLANGE†
20HB-20SF45	1.25	1.25	2.66	4.91	2.00	1.03	1.28	20SFO
24HB-20SF45	1.50	1.25	2.66	4.91	2.00	1.28	1.28	20SFO
20HB-24SF45	1.25	1.50	2.74	5.11	2.38	1.03	1.50	24SFO
24HB-24SF45	1.50	1.50	2.74	5.11	2.38	1.28	1.50	24SFO
32HB-24SF45	2.00	1.50	2.74	5.11	2.38	1.75	1.50	24SFO
40HB-24SF45	2.50	1.50	2.74	5.11	2.38	2.17	1.50	24SFO
24HB-32SF45	1.50	2.00	3.23	5.86	2.81	1.28	1.94	32SFO
32HB-32SF45	2.00	2.00	3.23	5.86	2.81	1.75	1.94	32SFO
40HB-32SF45	2.50	2.00	3.23	5.86	2.81	2.17	1.94	32SFO
48HB-32SF45	3.00	2.00	3.23	5.86	2.81	2.72	1.94	32SFO
24HB-40SF45	1.50	2.50	3.89	7.39	3.31	1.28	2.33	40SFO
32HB-40SF45	2.00	2.50	3.89	7.39	3.31	1.75	2.33	40SFO
40HB-40SF45	2.50	2.50	3.89	7.39	3.31	2.17	2.33	40SFO
48HB-40SF45	3.00	2.50	3.89	7.39	3.31	2.72	2.33	40SFO
64HB-40SF45	4.00	2.50	4.33	7.83	3.31	3.69	2.33	40SFO
32HB-48SF45	2.00	3.00	4.42	8.30	4.00	1.75	3.00	48SFO
40HB-48SF45	2.50	3.00	4.42	8.30	4.00	2.17	3.00	48SFO
48HB-48SF45	3.00	3.00	4.42	8.30	4.00	2.72	3.00	48SFO
64HB-48SF45	4.00	3.00	4.42	8.30	4.00	3.69	3.00	48SFO
64HB-56SF45	4.00	3.50	5.13	10.88	4.50	3.69	3.38	56SFO
40HB-64SF45	2.50	4.00	5.13	9.38	5.00	2.17	3.83	64SFO
48HB-64SF45	3.00	4.00	5.13	9.38	5.00	2.72	3.83	64SFO
64HB-64SF45	4.00	4.00	5.13	9.38	5.00	3.69	3.83	64SFO



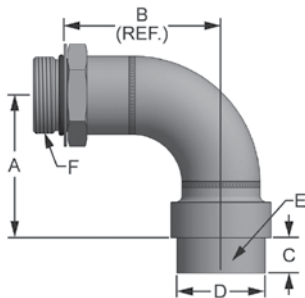
STRAIGHT HOSE BARB TO SAE FLANGE HEAD							
	HOSE BARB SIZE	FLANGE SIZE	A	B	HB ID	FH ID	SPLIT FLANGE†
20HB-20SF	1.25	1.25	3.39	2.00	1.03	1.03	20SFO
24HB-20SF	1.50	1.25	3.39	2.00	1.25	1.25	20SFO
20HB-24SF	1.25	1.50	3.39	2.38	1.03	1.50	24SFO
24HB-24SF	1.50	1.50	3.50	2.38	1.28	1.28	24SFO
32HB-24SF	2.00	1.50	3.93	2.38	1.50	1.50	24SFO
40HB-24SF	2.50	1.50	4.63	2.38	2.17	1.50	24SFO
24HB-32SF	1.50	2.00	3.93	2.81	1.28	2.00	32SFO
32HB-32SF	2.00	2.00	3.93	2.81	1.75	1.75	32SFO
40HB-32SF	2.50	2.00	4.63	2.81	2.00	2.00	32SFO
48HB-32SF	3.00	2.00	5.19	2.81	2.72	1.75	32SFO
24HB-40SF	1.50	2.50	4.63	3.31	1.28	2.50	40SFO
32HB-40SF	2.00	2.50	3.93	3.31	1.75	2.50	40SFO
40HB-40SF	2.50	2.50	4.63	3.31	2.17	2.17	40SFO
48HB-40SF	3.00	2.50	5.19	3.31	2.50	2.50	40SFO
64HB-40SF	4.00	2.50	6.50	3.31	3.69	2.38	40SFO
32HB-48SF	2.00	3.00	4.75	4.00	1.75	3.00	48SFO
40HB-48SF	2.50	3.00	4.63	4.00	2.17	3.00	48SFO
48HB-48SF	3.00	3.00	5.19	4.00	2.72	2.72	48SFO
64HB-48SF	4.00	3.00	5.83	4.00	3.69	3.00	48SFO
64HB-56SF	4.00	3.50	5.83	4.50	3.50	3.50	56SFO
40HB-64SF	2.50	4.00	5.83	5.00	2.17	3.69	64SFO
48HB-64SF	3.00	4.00	5.83	5.00	2.72	3.69	64SFO
64HB-64SF	4.00	4.00	5.83	5.00	3.69	3.69	64SFO

† Optional Split Flange sold separately

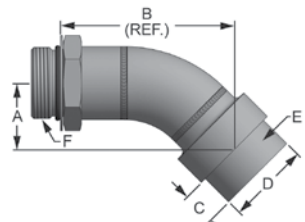
SAE Thread to Tank Coupling



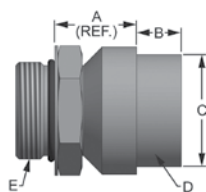
- Suction to 400 psi max
- Buna seals standard / Viton optional
- Carbon steel natural finish
- 90° & 45° SAE thread with adjustable nut
- Material certificates available upon request
- SAE threads manufactured to J1926



90° SAE THREAD TO TANK COUPLING										
	LINE SIZE	TANK PILOT	A	B (REF.)	C	D	E (INTERNAL THREAD)	F	ID	BALL VALVE†
20NPT-20SAE90	1.25	1.25	3.01	3.28	0.75	1.88	1 1/4-11.5	1 5/8-12	1.08	LV2BS#20-2T-MH
*24NPT-24SAE90	1.50	1.50	3.38	3.65	0.75	2.13	1 1/2-11.5	1 7/8-12	1.32	LV2BS#24-2T-MH
*32NPT-32SAE90	2.00	2.00	4.13	4.40	0.88	2.63	2-11.5	2 1/2-12	1.58	LV2BS#32-2T-MH
*40NPT-40SAE90	2.50	2.50	5.38	5.23	1.00	3.25	2 1/2-8	3-12	2.09	LV2BS#40-2T-MH
*48NPT-48SAE90	3.00	3.00	6.00	6.15	1.00	4.00	3-8	3 1/2-12	2.48	LV2BS#48-2T-MH
*64NPT-64SAE90	4.00	4.00	8.00	7.65	1.00	5.00	4-8	4 1/2-12	3.94	LV2BS#64-2T-MH



45° SAE THREAD TO TANK COUPLING										
	LINE SIZE	TANK PILOT	A	B (REF.)	C	D	E (INTERNAL THREAD)	F	ID	BALL VALVE†
20NPT-20SAE45	1.25	1.25	1.51	3.96	0.75	1.88	1 1/4-11.5	1 5/8-12	1.08	LV2BS#20-2T-MH
*24NPT-24SAE45	1.50	1.50	1.60	4.17	0.75	2.13	1 1/2-11.5	1 7/8-12	1.32	LV2BS#24-2T-MH
*32NPT-32SAE45	2.00	2.00	1.77	4.60	0.88	2.63	2-11.5	2 1/2-12	1.58	LV2BS#32-2T-MH
*40NPT-40SAE45	2.50	2.50	2.39	5.68	1.00	3.25	2 1/2-8	3-12	2.09	LV2BS#40-2T-MH
*48NPT-48SAE45	3.00	3.00	2.48	6.18	1.00	4.00	3-8	3 1/2-12	2.48	LV2BS#48-2T-MH
*64NPT-64SAE45	4.00	4.00	3.18	7.39	1.00	5.00	4-8	4 1/2-12	3.94	LV2BS#64-2T-MH



STRAIGHT SAE THREAD TO TANK COUPLING									
	LINE SIZE	TANK PILOT	A (REF.)	B	C	D (INTERNAL THREAD)	E	ID	BALL VALVE†
20NPT-20SAE	1.25	1.25	1.38	0.75	1.88	1 1/4-11.5	1 5/8-12	1.08	LV2BS#20-2T-MH
*24NPT-24SAE	1.50	1.50	1.51	0.75	2.13	1 1/2-11.5	1 7/8-12	1.32	LV2BS#24-2T-MH
*32NPT-32SAE	2.00	2.00	1.51	0.88	2.63	2-11.5	2 1/2-12	1.58	LV2BS#32-2T-MH
*40NPT-40SAE	2.50	2.50	1.58	1.00	3.25	2 1/2-8	3-12	2.09	LV2BS#40-2T-MH
*48NPT-48SAE	3.00	3.00	1.65	1.00	4.00	3-8	3 1/2-12	2.48	LV2BS#48-2T-MH
*64NPT-64SAE	4.00	4.00	1.65	1.00	5.00	4-8	4 1/2-12	3.94	LV2BS#64-2T-MH

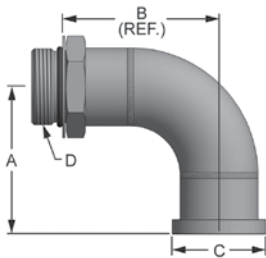
* Uses Adjustable Spanner

† Optional Ball Valve sold separately

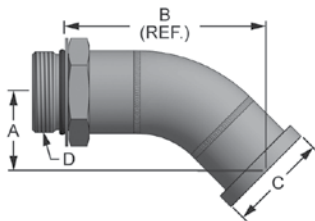
SAE Thread to Flange Head



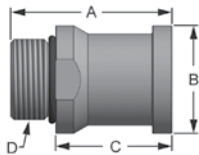
- Suction to 400 psi max
- Buna seals standard / Viton optional
- Carbon steel natural finish
- 90° & 45° SAE thread with adjustable nut
- Material certificates available upon request
- SAE threads manufactured to J1926



90° SAE THREAD TO FLANGE HEAD									
	LINE SIZE	FLANGE SIZE	A	B (REF.)	C	D	ID	BALL VALVE [†]	SPLIT FLANGE [†]
20SF-20SAE90	1.25	1.25	3.13	3.28	2.00	1 5/8-12	1.08	LV2BS#20-2T-MH	20SFO
*24SF-24SAE90	1.50	1.50	3.50	3.65	2.38	1 7/8-12	1.32	LV2BS#24-2T-MH	24SFO
*32SF-32SAE90	2.00	2.00	4.25	4.40	2.81	2 1/2-12	1.58	LV2BS#32-2T-MH	32SFO
*40SF-40SAE90	2.50	2.50	5.50	5.23	3.31	3-12	2.09	LV2BS#40-2T-MH	40SFO
*48SF-48SAE90	3.00	3.00	6.38	6.15	4.00	3 1/2-12	2.48	LV2BS#48-2T-MH	48SFO
*64SF-64SAE90	4.00	4.00	7.75	7.65	5.00	4 1/2-12	3.83	LV2BS#64-2T-MH	64SFO



45° SAE THREAD TO FLANGE HEAD									
	LINE SIZE	FLANGE SIZE	A	B (REF.)	C	D	ID	BALL VALVE [†]	SPLIT FLANGE [†]
20SF-20SAE45	1.25	1.25	1.59	4.00	2.00	1 5/8-12	1.08	LV2BS#20-2T-MH	20SFO
*24SF-24SAE45	1.50	1.50	1.68	4.20	2.38	1 7/8-12	1.32	LV2BS#24-2T-MH	24SFO
*32SF-32SAE45	2.00	2.00	1.86	4.64	2.81	2 1/2-12	1.58	LV2BS#32-2T-MH	32SFO
*40SF-40SAE45	2.50	2.50	2.48	5.68	3.31	3-12	2.09	LV2BS#40-2T-MH	40SFO
*48SF-48SAE45	3.00	3.00	2.74	6.39	4.00	3 1/2-12	2.48	LV2BS#48-2T-MH	48SFO
*64SF-64SAE45	4.00	4.00	3.00	7.16	5.00	4 1/2-12	3.83	LV2BS#64-2T-MH	64SFO



STRAIGHT SAE THREAD TO FLANGE HEAD									
	LINE SIZE	FLANGE SIZE	A	B	C	D	ID	BALL VALVE [†]	SPLIT FLANGE [†]
**302-20-20	1.25	1.25	3.13	2.00	2.41	1 5/8-12	1.08	LV2BS#20-2T-MH	20SFO
**302-24-24	1.50	1.50	3.14	2.38	2.42	1 7/8-12	1.32	LV2BS#24-2T-MH	24SFO
**302-32-32	2.00	2.00	3.63	2.81	2.91	2 1/2-12	1.57	LV2BS#32-2T-MH	32SFO
**302-40-40	2.50	2.50	4.23	3.31	3.40	3-12	2.09	LV2BS#40-2T-MH	40SFO
**302-48-48	3.00	3.00	4.50	4.00	3.52	3 1/2-12	2.48	LV2BS#48-2T-MH	48SFO
**302-64-64	4.00	4.00	4.14	5.00	3.45	4 1/2-12	3.94	LV2BS#64-2T-MH	64SFO

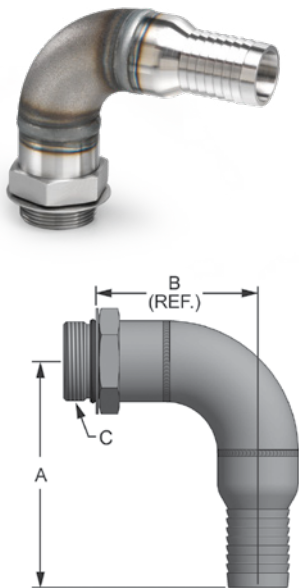
* Uses Adjustable Spanner

** 302 Series Silver Trivalent Plated

† Optional Ball Valve & Split Flange sold separately

Hose Barb to SAE Thread

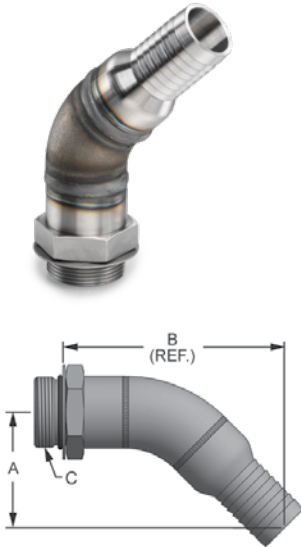
- Suction to 400 PSI max
- Buna seals standard / Viton optional
- Carbon steel natural finish
- 90° & 45° SAE thread with adjustable nut
- Material certificates available upon request
- SAE threads manufactured to J1926



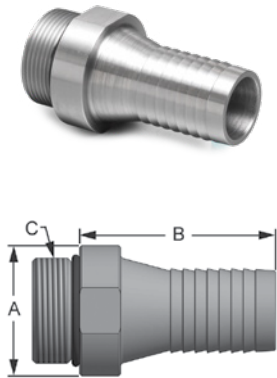
90° HOSE BARB TO SAE THREAD								
	HOSE BARB SIZE	THREAD SIZE	A	B (REF.)	C	HB ID	SAE ID	BALL VALVE†
20HB-20SAE90	1.25	1.25	4.64	3.28	1 5/8-12	1.03	1.08	LV2BS#20-2T-MH
24HB-20SAE90	1.50	1.25	4.64	3.28	1 5/8-12	1.28	1.08	LV2BS#20-2T-MH
*20HB-24SAE90	1.25	1.50	5.00	3.65	1 7/8-12	1.03	1.32	LV2BS#24-2T-MH
*24HB-24SAE90	1.50	1.50	5.00	3.65	1 7/8-12	1.28	1.32	LV2BS#24-2T-MH
*32HB-24SAE90	2.00	1.50	5.00	3.65	1 7/8-12	1.75	1.32	LV2BS#24-2T-MH
*40HB-24SAE90	2.50	1.50	5.00	3.65	1 7/8-12	2.17	1.32	LV2BS#24-2T-MH
*24HB-32SAE90	1.50	2.00	6.19	4.40	2 1/2-12	1.28	1.58	LV2BS#32-2T-MH
*32HB-32SAE90	2.00	2.00	6.19	4.40	2 1/2-12	1.75	1.58	LV2BS#32-2T-MH
*40HB-32SAE90	2.50	2.00	6.19	4.40	2 1/2-12	2.17	1.58	LV2BS#32-2T-MH
*48HB-32SAE90	3.00	2.00	6.19	4.40	2 1/2-12	2.72	1.58	LV2BS#32-2T-MH
*24HB-40SAE90	1.50	2.50	7.50	5.23	3-12	1.28	2.09	LV2BS#40-2T-MH
*32HB-40SAE90	2.00	2.50	7.50	5.23	3-12	1.75	2.09	LV2BS#40-2T-MH
40HB-40SAE90	2.50	2.50	7.50	5.23	3-12	2.17	2.09	LV2BS#40-2T-MH
*48HB-40SAE90	3.00	2.50	7.50	5.23	3-12	2.72	2.09	LV2BS#40-2T-MH
*64HB-40SAE90	4.00	2.50	8.13	5.23	3-12	3.69	2.09	LV2BS#40-2T-MH
*32HB-48SAE90	2.00	3.00	8.75	6.15	3 1/2-12	1.75	2.48	LV2BS#48-2T-MH
*40HB-48SAE90	2.50	3.00	8.75	6.15	3 1/2-12	2.17	2.48	LV2BS#48-2T-MH
*48HB-48SAE90	3.00	3.00	8.75	6.15	3 1/2-12	2.72	2.48	LV2BS#48-2T-MH
*64HB-48SAE90	4.00	3.00	8.75	6.15	3 1/2-12	3.69	2.48	LV2BS#48-2T-MH
*40HB-64SAE90	2.50	4.00	10.75	7.65	4 1/2-12	2.17	3.94	LV2BS#64-2T-MH
*48HB-64SAE90	3.00	4.00	10.75	7.65	4 1/2-12	2.72	3.94	LV2BS#64-2T-MH
*64HB-64SAE90	4.00	4.00	10.75	7.65	4 1/2-12	3.69	3.94	LV2BS#64-2T-MH

* Uses Adjustable Spanner

† Optional Ball Valve sold separately



45° HOSE BARB TO SAE THREAD								
	HOSE BARB SIZE	THREAD SIZE	A	B (REF.)	C	HB ID	SAE ID	BALL VALVE†
20HB-20SAE45	1.25	1.25	2.66	5.06	1 5/8-12	1.03	1.08	LV2BS#20-2T-MH
24HB-20SAE45	1.50	1.25	2.66	5.06	1 5/8-12	1.28	1.08	LV2BS#20-2T-MH
*20HB-24SAE45	1.25	1.50	2.74	5.26	1 7/8-12	1.04	1.32	LV2BS#24-2T-MH
*24HB-24SAE45	1.50	1.50	2.74	5.26	1 7/8-12	1.28	1.32	LV2BS#24-2T-MH
*32HB-24SAE45	2.00	1.50	2.74	5.26	1 7/8-12	1.75	1.32	LV2BS#24-2T-MH
*40HB-24SAE45	2.50	1.50	2.74	5.26	1 7/8-12	2.17	1.32	LV2BS#24-2T-MH
*24HB-32SAE45	1.50	2.00	3.23	6.01	2 1/2-12	1.28	1.58	LV2BS#32-2T-MH
*32HB-32SAE45	2.00	2.00	3.23	6.01	2 1/2-12	1.75	1.58	LV2BS#32-2T-MH
*40HB-32SAE45	2.50	2.00	3.23	6.01	2 1/2-12	2.17	1.58	LV2BS#32-2T-MH
*48HB-32SAE45	3.00	2.00	3.23	6.01	2 1/2-12	2.72	1.58	LV2BS#32-2T-MH
*24HB-40SAE45	1.50	2.50	3.89	7.12	3-12	1.28	2.09	LV2BS#40-2T-MH
32HB-40SAE45	2.00	2.50	3.89	7.12	3-12	1.75	2.09	LV2BS#40-2T-MH
*40HB-40SAE45	2.50	2.50	3.89	7.12	3-12	2.17	2.09	LV2BS#40-2T-MH
*48HB-40SAE45	3.00	2.50	3.89	7.12	3-12	2.72	2.09	LV2BS#40-2T-MH
*64HB-40SAE45	4.00	2.50	4.33	7.56	3-12	3.69	2.09	LV2BS#40-2T-MH
*32HB-48SAE45	2.00	3.00	4.42	8.07	3 1/2-12	1.75	2.48	LV2BS#48-2T-MH
*40HB-48SAE45	2.50	3.00	4.42	8.07	3 1/2-12	2.17	2.48	LV2BS#48-2T-MH
*48HB-48SAE45	3.00	3.00	4.42	8.07	3 1/2-12	2.72	2.48	LV2BS#48-2T-MH
*64HB-48SAE45	4.00	3.00	4.42	8.07	3 1/2-12	3.69	2.48	LV2BS#48-2T-MH
*40HB-64SAE45	2.50	4.00	5.13	9.28	4 1/2-12	2.17	3.94	LV2BS#64-2T-MH
*48HB-64SAE45	3.00	4.00	5.13	9.28	4 1/2-12	2.72	3.94	LV2BS#64-2T-MH
*64HB-64SAE45	4.00	4.00	5.13	9.28	4 1/2-12	3.69	3.94	LV2BS#64-2T-MH

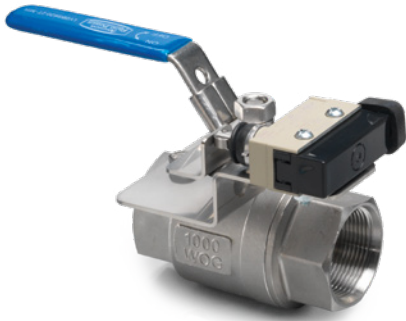


STRAIGHT HOSE BARB TO SAE THREAD								
	HOSE BARB SIZE	THREAD SIZE	A	B	C	HB ID	SAE ID	BALL VALVE†
20HB-20SAE	1.25	1.25	2.00	3.01	1 5/8-12	1.03	1.08	LV2BS#20-2T-MH
24HB-20SAE	1.50	1.25	2.00	3.01	1 5/8-12	1.28	1.08	LV2BS#20-2T-MH
20HB-24SAE	1.25	1.50	2.50	3.01	1 7/8-12	1.03	1.14	LV2BS#24-2T-MH
24HB-24SAE	1.50	1.50	2.50	3.01	1 7/8-12	1.28	1.32	LV2BS#24-2T-MH
32HB-24SAE	2.00	1.50	2.50	3.45	1 7/8-12	1.75	1.32	LV2BS#24-2T-MH
40HB-24SAE	2.50	1.50	2.50	3.97	1 7/8-12	2.17	1.32	LV2BS#24-2T-MH
24HB-32SAE	1.50	2.00	3.25	3.01	2 1/2-12	1.28	1.58	LV2BS#32-2T-MH
32HB-32SAE	2.00	2.00	3.25	3.45	2 1/2-12	1.58	1.58	LV2BS#32-2T-MH
40HB-32SAE	2.50	2.00	3.25	3.97	2 1/2-12	2.17	1.58	LV2BS#32-2T-MH
48HB-32SAE	3.00	2.00	3.25	4.59	2 1/2-12	2.72	1.58	LV2BS#32-2T-MH
24HB-40SAE	1.50	2.50	3.75	3.05	3-12	1.28	2.56	LV2BS#40-2T-MH
32HB-40SAE	2.00	2.50	3.75	3.49	3-12	1.75	2.56	LV2BS#40-2T-MH
40HB-40SAE	2.50	2.50	3.75	4.01	3-12	2.09	2.09	LV2BS#40-2T-MH
48HB-40SAE	3.00	2.50	3.75	4.63	3-12	2.72	2.56	LV2BS#40-2T-MH
64HB-40SAE	4.00	2.50	3.75	5.13	3-12	3.69	2.56	LV2BS#40-2T-MH
32HB-48SAE	2.00	3.00	4.50	3.49	3 1/2-12	1.75	2.95	LV2BS#48-2T-MH
40HB-48SAE	2.50	3.00	4.50	4.01	3 1/2-12	2.17	2.95	LV2BS#48-2T-MH
48HB-48SAE	3.00	3.00	4.50	4.63	3 1/2-12	2.48	2.48	LV2BS#48-2T-MH
64HB-48SAE	4.00	3.00	4.50	5.13	3 1/2-12	3.69	2.95	LV2BS#48-2T-MH
40HB-64SAE	2.50	4.00	5.50	4.01	4 1/2-12	2.17	3.94	LV2BS#64-2T-MH
48HB-64SAE	3.00	4.00	5.50	4.63	4 1/2-12	2.72	3.94	LV2BS#64-2T-MH
64HB-64SAE	4.00	4.00	5.50	5.13	4 1/2-12	3.69	3.94	LV2BS#64-2T-MH

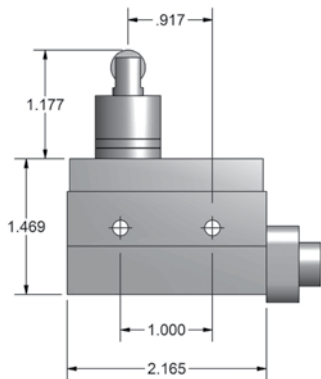
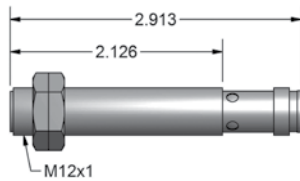
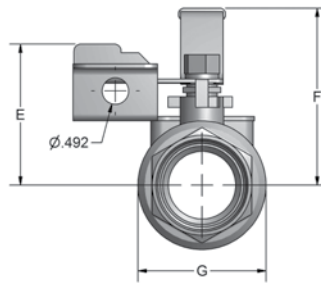
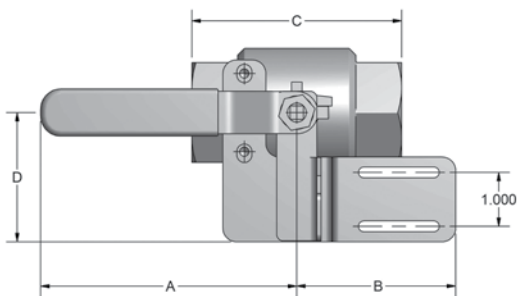
* Uses Adjustable Spanner

† Optional Ball Valve sold separately

Suction and Return Line Valves



- All stainless steel construction
- Locking handle standard
- SAE threads manufactured to J1926
- Bracket designed to support limit switch or proximity sensor
- Prox is M12 4-Pin connector, normally open, and VDC only
- Limit can be wired VDC or VAC and normally open or normally closed
- Both limit and prox have IP67 rating



LV2B SERIES - SAE									
SIZE	PSI MAX	A	B	C	D	E	F	G	ID
1"	1000	5.00	2.90	3.60	2.45	2.50	3.25	2.07	0.98
1-1/4"	1000	5.15	2.95	3.95	2.45	2.85	3.10	2.36	1.26
1-1/2"	1000	6.10	2.96	4.24	2.38	3.28	3.97	2.77	1.50
2"	1000	6.10	2.91	4.88	2.38	3.53	4.34	3.50	1.97
2-1/2"	1000	9.06	2.86	6.30	2.84	4.18	5.20	4.53	2.56
3"	1000	9.06	2.91	7.26	3.07	4.70	5.71	5.35	3.15
4"	500	13.00	2.90	8.80	3.11	6.10	7.11	7.02	3.93

*For Technical and Material info refer to page 52

LV2BS#16 - 2T - MHS

B: Bracket only, No Limit Switch or Proximity Sensor
S: Bracket and Limit Switch
P: Bracket and Proximity Sensor
Omit: No bracket, Limit Switch, or Proximity Sensor

THREAD SIZE



INLINE VALVES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

BALL VALVES

QUICK COUPLINGS

WELD COUPLINGS

SUCTION AND RETURN

C/S FLANGES

S/S FLANGES

FLANGES - CARBON STEEL



866-FLANGES | 513.527.4444 | Fax 513.527.4449
sales@anchorfluidpower.com | anchorfluidpower.com

SAE J518 Split/Captive Flanges

For SAE Flanged Head Connection

CD 61 - CD 62	84
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Split Flange Adapters

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SAE 4 Bolt Flanges

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Square 4 Bolt Flanges

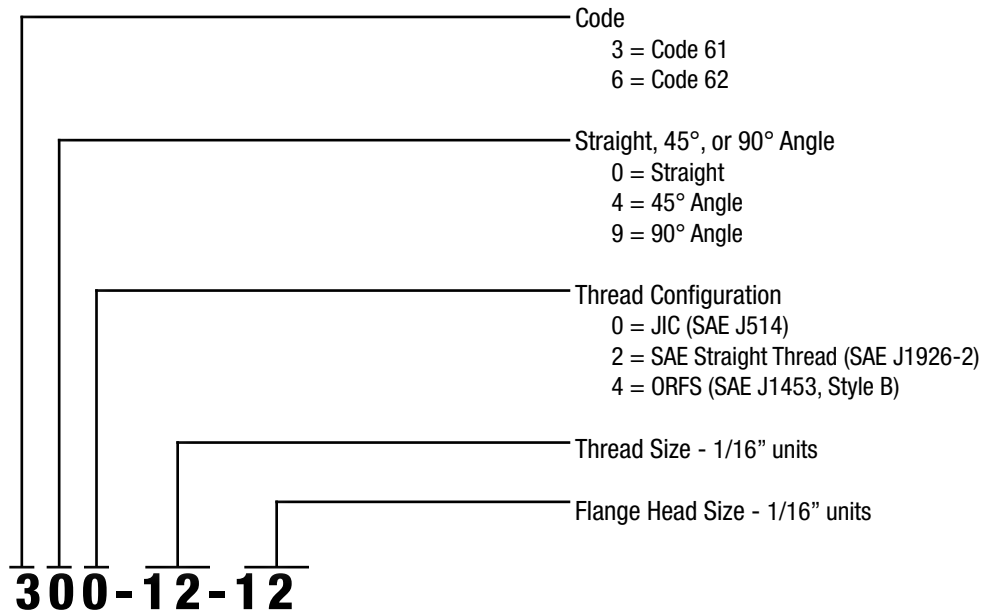
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O-Rings	139

Ordering System

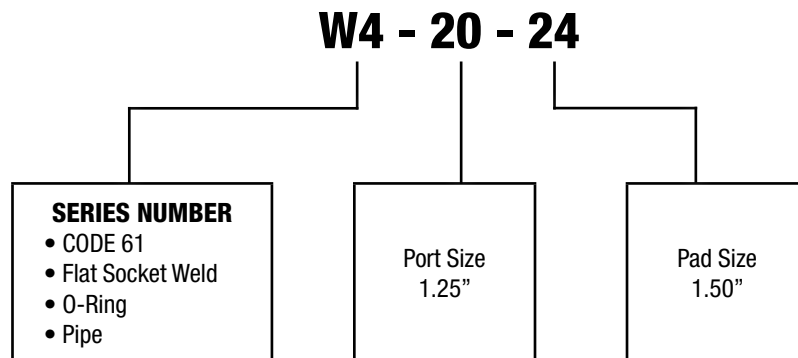
SPLIT FLANGE ADAPTERS



For additional jump sizes, please consult factory.

FLANGES

Our basic part numbering system is simple to use. The explanation of our part numbering system is detailed below. The series number provides the greatest amount of information pertaining to the flange product. The port size and pad size simply refer to size only, with all sizes based on 1/16 of an inch.



NOTE #1 – All items available with mounting kit by simply adding suffix letter "U".

NOTE #2 – All items available in stainless steel material by simply adding the suffix letters "SS".

NOTE #3 – All items available with metric mounting holes simply by adding the appropriate suffix (IE: M10, M12, etc.).

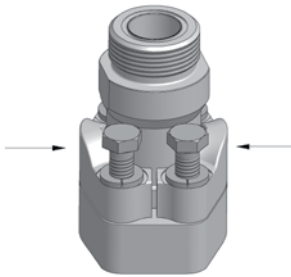


General Information

SPLIT FLANGE CLAMP

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

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



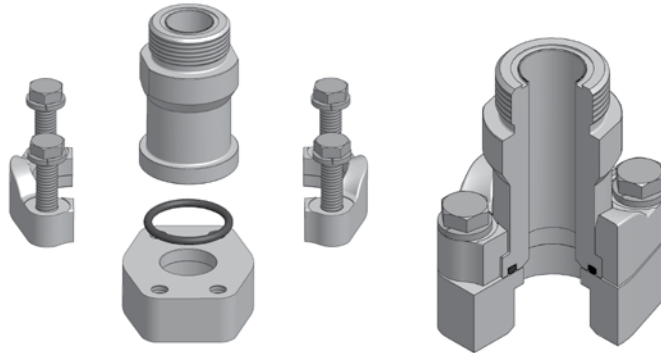
Push the flange clamps towards the flange head and screw fasteners into flange pad. Continue to screw the fasteners until their heads just meet the split flange surface.



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.

Anchor Fluid Power 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 the above pressure rating chart refers 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.

Please consult with Anchor Fluid Power for pressure rating specific to your connection requirement.



PRESSURE RATINGS OF SAE FLANGES

CODE 61 SAE J518-1 / ISO 6162-1					
DASH SIZE	INCH SIZE	MAX WORKING PRESSURE		GRADE 8 AND EQUIVALENT FASTENER TORQUE VALUE	
		PSI	MPA	SOCKET HEAD UNC (LB-FT)	HEX HEAD UNC (LB-FT)
-8	1/2"	5000	35	24	18
-12	3/4"	5000	35	44	33
-16	1"	4600	32	44	33
-20	1 1/4"	4000	28	68	52
-24	1 1/2"	3000	21	111	80
-32	2"	3000	21	111	80
-40	2 1/2"	2500	17.5	111	80
-48	3"	2300	16	218	160
-56	3 1/2"	500	3.5	218	160
-64	4"	500	3.5	218	160
-80	5"	500	3.5	218	160

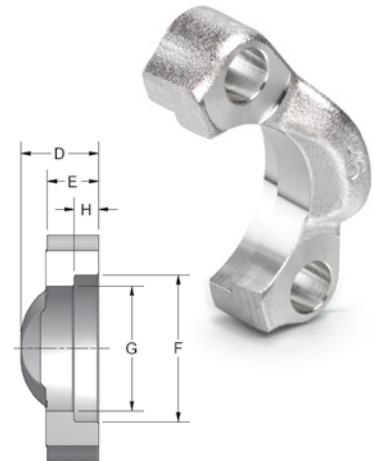
CODE 62 SAE J518-2 / ISO 6162-2					
DASH SIZE	INCH SIZE	MAX WORKING PRESSURE		GRADE 8 AND EQUIVALENT FASTENER TORQUE VALUE	
		PSI	MPA	SOCKET HEAD UNC (LB-FT)	HEX HEAD UNC (LB-FT)
-8	1/2"	6000	40	24	18
-12	3/4"	6000	40	44	33
-16	1"	6000	40	68	52
-20	1 1/4"	6000	40	111	80
-24	1 1/2"	6000	40	218	160
-32	2"	6000	40	332	281
-40	2 1/2"	6000	40	N/A	605
-48	3"	6000	40	N/A	1280

**All max working pressures listed above are specific to the SAE J518/ISO 6162 bolt pattern. Features within the 4-Bolt flange and the connection opposite the 4-Bolt flange can de-rate the maximum working pressure.

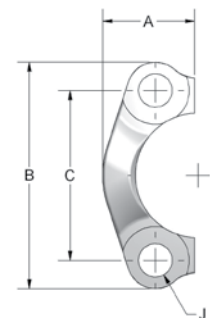
NOTE - All carbon steel torque values are based on AFP supplied socket head and hex head fasteners. Use of alternate fasteners can affect torque value. Consult factory for additional information.

J518 Split & Captive Flange

CODE 61 SPLIT FLANGE													
*PART NO.	**KIT PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	MOUNTING HARDWARE	
												O-RING	HHCS
8SF-2	8SFO	.50	.86	2.12	1.500	.75	.50	1.219	.955	.245	.350	210	5/16-18X1.25
12SF-2	12SFO	.75	.98	2.56	1.875	.88	.56	1.531	1.265	.245	.417	214	3/8-16X1.25
16SF-2	16SFO	1.00	1.11	2.75	2.062	.94	.62	1.781	1.515	.295	.417	219	3/8-16X1.25
20SF-2	20SFO	1.25	1.39	3.12	2.312	.88	.56	2.031	1.720	.295	.472	222	7/16-14X1.50
24SF-2	24SFO	1.50	1.58	3.69	2.750	1.00	.62	2.406	2.000	.295	.524	225	1/2-13X1.50
32SF-2	32SFO	2.00	1.86	4.00	3.062	1.03	.62	2.844	2.470	.355	.524	228	1/2-13X1.50
40SF-2	40SFO	2.50	2.09	4.50	3.500	1.50	.75	3.344	2.950	.355	.524	232	1/2-13X1.75
48SF-2	48SFO	3.00	2.53	5.31	4.188	1.62	.88	4.031	3.580	.355	.657	237	5/8-11X1.75
56SF-2	56SFO	3.50	2.70	6.00	4.750	1.12	.88	4.531	4.030	.422	.657	241	5/8-11X2.00
64SF-2	64SFO	4.00	2.95	6.38	5.125	1.38	1.00	5.031	4.530	.422	.657	245	5/8-11X2.00



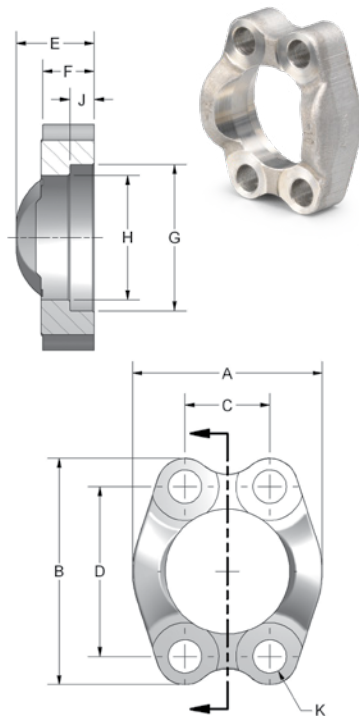
CODE 62 SPLIT FLANGE													
*PART NO.	**KIT PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	MOUNTING HARDWARE	
												O-RING	HHCS
8SFX-2	8SFX0	.50	.89	2.22	1.594	.88	.62	1.281	.970	.285	.350	210	5/16-18X1.25
12SFX-2	12SFX0	.75	1.14	2.81	2.000	1.12	.75	1.656	1.280	.325	.417	214	3/8-16X1.50
16SFX-2	16SFX0	1.00	1.33	3.19	2.250	1.31	.94	1.906	1.530	.355	.472	219	7/16-14X1.75
20SFX-2	20SFX0	1.25	1.48	3.75	2.625	1.50	1.06	2.156	1.750	.385	.524	222	1/2-13X1.75
24SFX-2	24SFX0	1.50	1.83	4.44	3.125	1.69	1.19	2.531	2.030	.475	.657	225	5/8-11X2.25
32SFX-2	32SFX0	2.00	2.20	5.25	3.812	2.06	1.44	3.156	2.660	.475	.811	228	3/4-10X2.75



*Anchor part # includes: (1) split flange half only

**Kit part # includes: (2) split flange halves, (4) hex head screws with flat washers, (1) Buna N O-Ring

Split flange halves are silver trivalent plated



CODE 61 CAPTIVE FLANGE													
DRILLED PART NO.	TAPPED PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	K UNC-2B
8SFW	8SFTW	.50	1.81	2.12	.688	1.500	.75	.50	1.219	.955	.245	.344	5/16-18
12SFW	12SFTW	.75	2.06	2.56	.875	1.875	.88	.56	1.531	1.265	.245	.406	3/8-16
16SFW	16SFTW	1.00	2.31	2.75	1.031	2.062	.94	.62	1.781	1.515	.295	.406	3/8-16
20SFW	20SFTW	1.25	2.88	3.12	1.188	2.312	.88	.56	2.031	1.720	.295	.469	7/16-14
24SFW	24SFTW	1.50	3.25	3.69	1.406	2.750	1.00	.62	2.406	2.000	.295	.531	1/2-13
32SFW	32SFTW	2.00	3.81	4.00	1.688	3.062	1.03	.62	2.844	2.470	.355	.531	1/2-13
40SFW	40SFTW	2.50	4.28	4.50	2.000	3.500	1.50	.75	3.344	2.950	.355	.531	1/2-13
48SFW	48SFTW	3.00	5.16	5.31	2.438	4.188	1.62	.88	4.031	3.580	.355	.656	5/8-11
56SFW	56SFTW	3.50	5.50	6.00	2.750	4.750	1.12	.88	4.531	4.030	.422	.656	5/8-11
64SFW	64SFTW	4.00	6.00	6.38	3.062	5.125	1.38	1.00	5.031	4.530	.422	.656	5/8-11

CODE 62 CAPTIVE FLANGE													
DRILLED PART NO.	TAPPED PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	K UNC-2B
8SFXW	8SFXTW	.50	1.86	2.22	.718	1.594	.88	.62	1.281	.970	.285	.344	5/16-18
12SFXW	12SFXTW	.75	2.38	2.81	.937	2.000	1.12	.75	1.656	1.280	.325	.406	3/8-16
16SFXW	16SFXTW	1.00	2.75	3.19	1.093	2.250	1.31	.94	1.906	1.530	.355	.469	7/16-14
20SFXW	20SFXTW	1.25	3.06	3.75	1.250	2.625	1.50	1.06	2.156	1.750	.385	.531	1/2-13
24SFXW	24SFXTW	1.50	3.75	4.44	1.437	3.125	1.69	1.19	2.531	2.030	.475	.656	5/8-11
32SFXW	32SFXTW	2.00	4.50	5.25	1.750	3.812	2.06	1.44	3.156	2.660	.475	.781	3/4-10

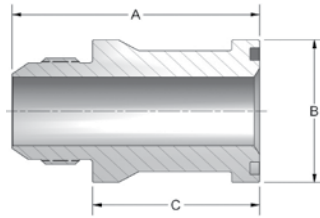


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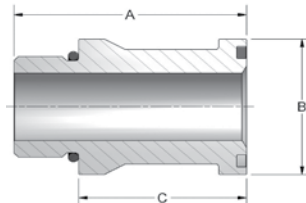
Split Flange Adapters

JIC THREAD



CODE 61 JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
300-8-8	1/2	1/2	2.60	1.188	1.94	3/4-16
300-8-12	1/2	3/4	2.75	1.500	2.09	3/4-16
300-12-12	3/4	3/4	2.75	1.500	1.89	1 1/16-12
300-16-12	1	3/4	2.75	1.500	1.84	1 5/16-12
300-12-16	3/4	1	2.80	1.750	1.94	1 1/16-12
300-16-16	1	1	2.80	1.750	1.89	1 5/16-12
300-20-16	1 1/4	1	2.80	1.750	1.84	1 5/8-12
300-12-20	3/4	1 1/4	2.80	2.000	1.94	1 1/16-12
300-16-20	1	1 1/4	2.80	2.000	1.89	1 5/16-12
300-20-20	1 1/4	1 1/4	2.80	2.000	1.84	1 5/8-12
300-24-20	1 1/2	1 1/4	3.40	2.000	2.32	1 7/8-12
300-16-24	1	1 1/2	3.33	2.380	2.42	1 5/16-12
300-20-24	1 1/4	1 1/2	3.38	2.375	2.42	1 5/8-12
300-24-24	1 1/2	1 1/2	3.50	2.375	2.42	1 7/8-12
300-32-24	2	1 1/2	4.20	2.375	2.87	2 1/2-12
300-20-32	1 1/4	2	3.60	2.810	2.64	1 5/8-12
300-24-32	1 1/2	2	3.73	2.812	2.64	1 7/8-12
300-32-32	2	2	3.98	2.812	2.64	2 1/2-12
300-32-40	2	2 1/2	3.98	3.312	2.64	2 1/2-12

CODE 62 JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
600-8-8	1/2	1/2	2.61	1.250	1.95	3/4-16
600-12-12	3/4	3/4	2.75	1.625	1.89	1 1/16-12
600-16-12	1	3/4	2.75	1.625	1.84	1 5/16-12
600-20-12	1 1/4	3/4	3.05	1.625	2.09	1 5/8-12
600-12-16	3/4	1	2.80	1.875	1.94	1 1/16-12
600-16-16	1	1	2.80	1.875	1.89	1 5/16-12
600-20-16	1 1/4	1	2.80	1.875	1.84	1 5/8-12
600-16-20	1	1 1/4	3.05	2.125	2.14	1 5/16-12
600-20-20	1 1/4	1 1/4	3.05	2.125	2.09	1 5/8-12
600-24-20	1 1/2	1 1/4	3.30	2.125	2.22	1 7/8-12
600-16-24	1	1 1/2	3.33	2.500	2.42	1 5/16-12
600-20-24	1 1/4	1 1/2	3.50	2.500	2.54	1 5/8-12
600-24-24	1 1/2	1 1/2	3.50	2.500	2.42	1 7/8-12
600-32-24	2	1 1/2	4.94	2.500	3.61	2 1/2-12
600-24-32	1 1/2	2	3.98	3.125	2.89	1 7/8-12
600-32-32	2	2	4.23	3.125	2.89	2 1/2-12

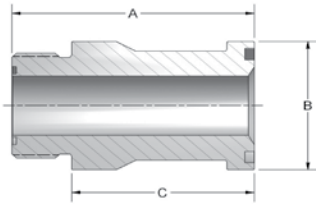


SAE STRAIGHT THREAD

CODE 61 SAE STRAIGHT THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
302-8-8	1/2	1/2	2.49	1.188	1.94	3/4-16
302-12-12	3/4	3/4	2.61	1.500	1.89	1 1/16-12
302-16-12	1	3/4	2.88	1.500	2.16	1 5/16-12
302-12-16	3/4	1	2.74	1.750	2.02	1 1/16-12
302-16-16	1	1	2.61	1.750	1.89	1 5/16-12
302-20-16	1 1/4	1	3.13	1.750	2.41	1 5/8-12
302-16-20	1	1 1/4	2.74	2.000	2.02	1 5/16-12
302-20-20	1 1/4	1 1/4	3.13	2.000	2.41	1 5/8-12
302-24-20	1 1/2	1 1/4	3.43	2.000	2.71	1 7/8-12
302-16-24	1	1 1/2	3.30	2.380	2.58	1 5/16-12
302-20-24	1 1/4	1 1/2	3.30	2.375	2.58	1 5/8-12
302-24-24	1 1/2	1 1/2	3.14	2.375	2.42	1 7/8-12
302-24-32	1 1/2	2	3.79	2.812	3.07	1 7/8-12
302-32-32	2	2	3.63	2.812	2.91	2 1/2-12
302-40-40	2 1/2	2 1/2	4.23	3.310	3.08	3-12
302-48-48	3	3	4.50	4.000	3.36	3 1/2-12
302-64-64	4	4	4.14	5.000	2.89	4 1/2-12

CODE 62 SAE STRAIGHT THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
602-8-8	1/2	1/2	2.50	1.250	1.95	3/4-16
602-12-12	3/4	3/4	2.62	1.625	1.89	1 1/16-12
602-16-12	1	3/4	2.88	1.625	2.15	1 5/16-12
602-12-16	3/4	1	2.75	1.875	2.02	1 1/16-12
602-16-16	1	1	2.62	1.875	1.89	1 5/16-12
602-20-16	1 1/4	1	3.44	1.875	2.71	1 5/8-12
602-16-20	1	1 1/4	3.12	2.125	2.39	1 5/16-12
602-20-20	1 1/4	1 1/4	3.00	2.125	2.27	1 5/8-12
602-24-20	1 1/2	1 1/4	3.44	2.125	2.71	1 7/8-12
602-20-24	1 1/4	1 1/2	3.31	2.500	2.58	1 5/8-12
602-24-24	1 1/2	1 1/2	3.19	2.500	2.46	1 7/8-12
602-24-32	1 1/2	2	3.90	3.125	3.17	1 7/8-12
602-32-32	2	2	3.75	3.125	3.02	2 1/2-12

Threaded

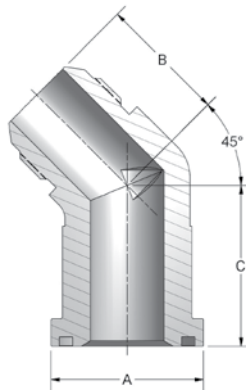


ORFS THREAD

CODE 61 ORFS THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
304-12-12	3/4	3/4	2.75	1.500	2.08	1 3/16-12
304-16-12	1	3/4	2.75	1.500	2.06	1 7/16-12
304-12-16	3/4	1	2.80	1.750	2.13	1 3/16-12
304-16-16	1	1	2.80	1.750	2.11	1 7/16-12
304-20-16	1 1/4	1	2.80	1.750	2.11	1 11/16-12
304-16-20	1	1 1/4	2.80	2.000	2.11	1 7/16-12
304-20-20	1 1/4	1 1/4	2.80	2.000	2.11	1 11/16-12
304-24-20	1 1/2	1 1/4	3.20	2.000	2.51	2-12
304-20-24	1 1/4	1 1/2	3.50	2.375	2.81	1 11/16-12
304-24-24	1 1/2	1 1/2	3.50	2.375	2.81	2-12
304-24-32	1 1/2	2	3.33	2.812	2.64	2-12

CODE 62 ORFS THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
604-8-8	1/2	1/2	2.58	1.250	2.08	13/16-16
604-12-12	3/4	3/4	2.75	1.625	2.08	1 3/16-12
604-16-12	1	3/4	2.75	1.625	2.06	1 7/16-12
604-12-16	3/4	1	2.80	1.875	2.13	1 3/16-12
604-16-16	1	1	2.80	1.875	2.11	1 7/16-12
604-20-16	1 1/4	1	3.20	1.875	2.51	1 11/16-12
604-16-20	1	1 1/4	3.05	2.125	2.36	1 7/16-12
604-20-20	1 1/4	1 1/4	3.05	2.125	2.36	1 11/16-12
604-24-20	1 1/2	1 1/4	3.30	2.125	2.61	2-12
604-20-24	1 1/4	1 1/2	3.50	2.500	2.81	1 11/16-12
604-24-24	1 1/2	1 1/2	3.50	2.500	2.81	2-12
604-24-32	1 1/2	2	3.58	3.125	2.89	2-12

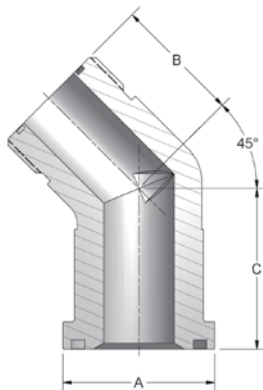
45° JIC THREAD



CODE 61 45° JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
340-12-12	3/4	3/4	1.500	1.28	1.58	1 1/16-12
340-16-16	1	1	1.750	1.47	1.85	1 5/16-12
340-20-20	1 1/4	1 1/4	2.000	1.59	2.04	1 5/8-12
340-24-24	1 1/2	1 1/2	2.375	1.78	2.38	1 7/8-12
340-32-32	2	2	2.812	2.22	3.00	2 1/2-12

CODE 62 45° JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
640-12-12	3/4	3/4	1.625	1.28	1.58	1 1/16-12
640-16-16	1	1	1.875	1.47	1.85	1 5/16-12
640-20-20	1 1/4	1 1/4	2.125	1.59	2.04	1 5/8-12
640-24-24	1 1/2	1 1/2	2.500	1.78	2.38	1 7/8-12
640-32-32	2	2	3.13	2.22	3.00	2 1/2-12

45° ORFS THREAD

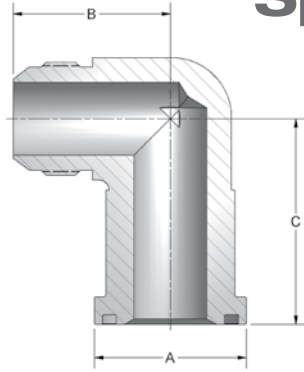


CODE 61 45° ORFS THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
344-12-12	3/4	3/4	1.500	1.28	1.58	1 3/16-12
344-16-16	1	1	1.750	1.47	1.85	1 7/16-12
344-20-20	1 1/4	1 1/4	2.000	1.59	2.04	1 11/16-12
344-24-24	1 1/2	1 1/2	2.375	1.78	2.38	2-12

CODE 62 45° ORFS THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
644-12-12	3/4	3/4	1.625	1.28	1.58	1 3/16-12
644-16-16	1	1	1.875	1.47	1.85	1 7/16-12
644-20-20	1 1/4	1 1/4	2.125	1.59	2.04	1 11/16-12
644-24-24	1 1/2	1 1/2	2.500	1.78	2.38	2-12



Split Flange Adapters

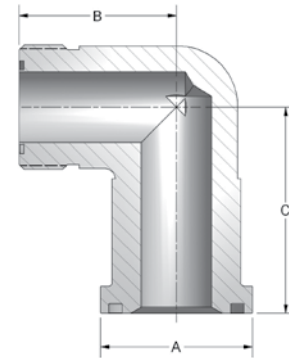


90° JIC THREAD

CODE 61 90° JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
390-8-8	1/2	1/2	1.19	1.46	2.13	3/4-16
390-8-12	1/2	3/4	1.500	1.66	2.13	3/4-16
390-12-12	3/4	3/4	1.500	1.66	2.13	1 1/16-12
390-16-12	1	3/4	1.500	1.66	2.13	1 5/16-12
390-12-16	3/4	1	1.750	1.81	2.37	1 1/16-12
390-16-16	1	1	1.750	1.81	2.37	1 5/16-12
390-20-16	1 1/4	1	1.750	1.81	2.37	1 5/8-12
390-12-20	3/4	1 1/4	2.000	2.06	2.62	1 1/16-12
390-16-20	1	1 1/4	2.000	2.06	2.62	1 5/16-12
390-20-20	1 1/4	1 1/4	2.000	2.06	2.62	1 5/8-12
390-24-20	1 1/2	1 1/4	2.000	2.06	2.62	1 7/8-12
390-12-24	3/4	1 1/2	2.375	2.33	3.15	1 1/16-12
390-16-24	1	1 1/2	2.375	2.33	3.15	1 5/16-12
390-20-24	1 1/4	1 1/2	2.375	2.33	3.15	1 5/8-12
390-24-24	1 1/2	1 1/2	2.375	2.33	3.15	1 7/8-12
390-32-24	2	1 1/2	2.375	2.58	3.15	2 1/2-12
390-24-32	1 1/2	2	2.812	3.06	4.25	1 7/8-12
390-32-32	2	2	2.812	3.06	4.25	2 1/2-12
390-32-40	2	2 1/2	3.312	3.06	4.25	2 1/2-12

CODE 62 90° JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
690-8-8	1/2	1/2	1.250	1.46	2.13	3/4-16
690-12-12	3/4	3/4	1.625	1.66	2.13	1 1/16-12
690-16-12	1	3/4	1.625	1.66	2.13	1 5/16-12
690-12-16	3/4	1	1.875	1.81	2.37	1 1/16-12
690-16-16	1	1	1.875	1.81	2.37	1 5/16-12
690-20-16	1 1/4	1	1.875	1.81	2.37	1 5/8-12
690-16-20	1	1 1/4	2.125	2.06	2.76	1 5/16-12
690-20-20	1 1/4	1 1/4	2.125	2.06	2.76	1 5/8-12
690-24-20	1 1/2	1 1/4	2.125	2.19	2.76	1 7/8-12
690-20-24	1 1/4	1 1/2	2.500	2.33	3.15	1 5/8-12
690-24-24	1 1/2	1 1/2	2.500	2.33	3.15	1 7/8-12
690-32-24	2	1 1/2	2.500	3.06	4.25	2 1/2-12
690-24-32	1 1/2	2	3.125	3.06	4.25	1 7/8-12
690-32-32	2	2	3.125	3.06	4.25	2 1/2-12

90° ORFS THREAD

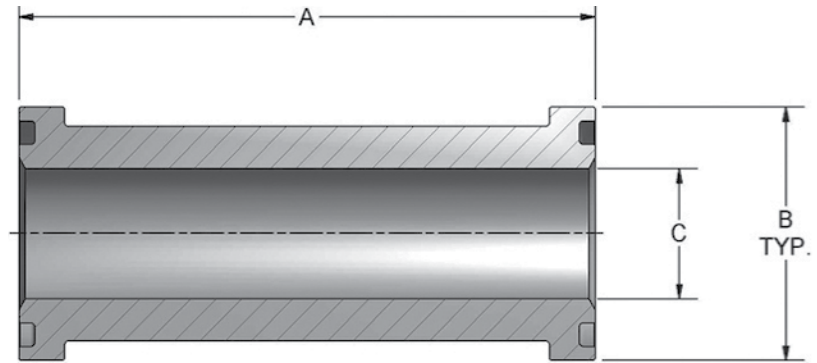


CODE 61 90° ORFS THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
394-12-12	3/4	3/4	1.500	1.66	2.13	1 3/16-12
394-16-12	1	3/4	1.500	1.66	2.13	1 7/16-12
394-12-16	3/4	1	1.750	1.81	2.37	1 3/16-12
394-16-16	1	1	1.750	1.81	2.37	1 7/16-12
394-20-16	1 1/4	1	1.750	1.81	2.37	1 11/16-12
394-16-20	1	1 1/4	2.000	2.06	2.62	1 7/16-12
394-20-20	1 1/4	1 1/4	2.000	2.06	2.62	1 11/16-12
394-24-20	1 1/2	1 1/4	2.000	2.06	2.62	2-12
394-20-24	1 1/4	1 1/2	2.375	2.33	3.15	1 11/16-12
394-24-24	1 1/2	1 1/2	2.375	2.33	3.15	2-12
394-24-32	1 1/2	2	2.812	3.06	4.25	2-12

CODE 62 90° ORFS THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
694-12-8	3/4	1/2	1.250	1.66	2.13	1 3/16-12
694-12-12	3/4	3/4	1.625	1.66	2.13	1 3/16-12
694-16-12	1	3/4	1.625	1.66	2.13	1 7/16-12
694-12-16	3/4	1	1.875	1.81	2.37	1 3/16-12
694-16-16	1	1	1.875	1.81	2.37	1 7/16-12
694-20-16	1 1/4	1	1.875	1.81	2.37	1 11/16-12
694-16-20	1	1 1/4	2.125	2.06	2.76	1 7/16-12
694-20-20	1 1/4	1 1/4	2.125	2.06	2.76	1 11/16-12
694-24-20	1 1/2	1 1/4	2.125	2.06	2.76	2-12
694-20-24	1 1/4	1 1/2	2.500	2.33	3.15	1 11/16-12
694-24-24	1 1/2	1 1/2	2.500	2.33	3.15	2-12
694-24-32	1 1/2	2	3.125	3.06	4.25	2-12

Flange Head X Flange Head

- Used to connect two flat faced flanges
- One-piece forged carbon steel construction with Silver Trivalent plating



CODE 61 FLANGE HEAD X FLANGE HEAD				
PART NO.	FLANGE SIZE	A	B	C
301-8-8	0.50	4.00	1.188	0.406
301-12-12	0.75	4.00	1.500	0.656
301-16-16	1.00	4.00	1.750	0.906
301-20-20	1.25	4.00	2.000	1.125
301-24-24	1.50	4.00	2.375	1.375
301-32-32	2.00	4.00	2.812	1.875
301-40-40	2.50	6.00	3.312	2.375
301-48-48	3.00	6.00	4.000	2.875
301-56-56	3.50	6.00	4.500	3.375
301-64-64	4.00	6.00	5.000	3.875

CODE 62 FLANGE HEAD X FLANGE HEAD				
PART NO.	FLANGE SIZE	A	B	C
601-8-8	0.50	4.00	1.250	0.406
601-12-12	0.75	4.00	1.625	0.656
601-16-16	1.00	6.00	1.875	0.810
601-20-20	1.25	6.00	2.125	1.010
601-24-24	1.50	6.00	2.500	1.250
601-32-32	2.00	8.00	3.125	1.750

*Stainless steel and custom lengths available upon request

Butt Weld Flange Head

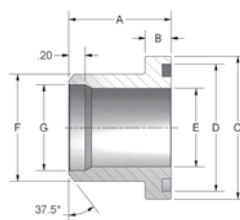


Figure 1

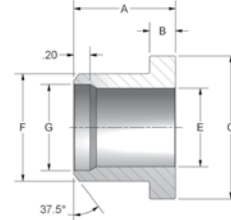


Figure 2

CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 40 PIPE										
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F	G
8P-8BWSF-40	8P-8BWSFN-40	.50	.50	1.06	.265	1.188	1.000	.548	.840	.624
12P-12BWSF-40	12P-12BWSFN-40	.75	.75	1.06	.265	1.500	1.250	.744	1.050	.826
16P-16BWSF-40	16P-16BWSFN-40	1.00	1.00	1.25	.315	1.750	1.560	.959	1.315	1.051
20P-20BWSF-40	20P-20BWSFN-40	1.25	1.25	1.44	.315	2.000	1.750	1.280	1.660	1.382
24P-24BWSF-40	24P-24BWSFN-40	1.50	1.50	1.75	.315	2.375	2.115	1.502	1.900	1.612
32P-32BWSF-40	32P-32BWSFN-40	2.00	2.00	2.00	.375	2.812	2.490	1.941	2.375	2.069
40P-40BWSF-40	40P-40BWSFN-40	2.50	2.50	2.31	.375	3.312	2.995	2.325	2.875	2.471
48P-48BWSF-40	48P-48BWSFN-40	3.00	3.00	2.31	.375	4.000	3.615	2.902	3.500	3.070
64P-64BWSF-40	64P-64BWSFN-40	4.00	4.00	1.90	.442	5.000	4.595	3.828	4.500	4.028

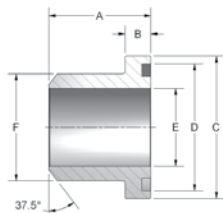


Figure 1

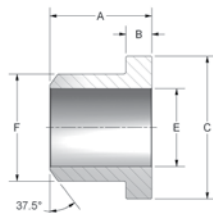


Figure 2

CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 80 PIPE										
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F	
8P-8BWSF-80	8P-8BWSFN-80	.50	.50	1.06	.265	1.188	1.000	.548	.840	
12P-12BWSF-80	12P-12BWSFN-80	.75	.75	1.06	.265	1.500	1.250	.744	1.050	
16P-16BWSF-80	16P-16BWSFN-80	1.00	1.00	1.25	.315	1.750	1.560	.959	1.315	
20P-20BWSF-80	20P-20BWSFN-80	1.25	1.25	1.44	.315	2.000	1.750	1.280	1.660	
24P-24BWSF-80	24P-24BWSFN-80	1.50	1.50	1.75	.315	2.375	2.115	1.502	1.900	
32P-32BWSF-80	32P-32BWSFN-80	2.00	2.00	2.00	.375	2.812	2.490	1.941	2.375	
40P-40BWSF-80	40P-40BWSFN-80	2.50	2.50	2.31	.375	3.312	2.995	2.325	2.875	
48P-48BWSF-80	48P-48BWSFN-80	3.00	3.00	2.31	.375	4.000	3.615	2.902	3.500	

CODE 61 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 160 PIPE										
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F	
8P-8BWSF-160	8P-8BWSFN-160	.50	.50	1.06	.265	1.188	1.000	.464	.840	
12P-12BWSF-160	12P-12BWSFN-160	.75	.75	1.06	.265	1.500	1.250	.612	1.050	
16P-16BWSF-160	16P-16BWSFN-160	1.00	1.00	1.25	.315	1.750	1.560	.815	1.315	
20P-20BWSF-160	20P-20BWSFN-160	1.25	1.25	1.44	.315	2.000	1.750	1.160	1.660	
24P-24BWSF-160	24P-24BWSFN-160	1.50	1.50	1.75	.315	2.375	2.115	1.338	1.900	
32P-32BWSF-160	32P-32BWSFN-160	2.00	2.00	2.00	.375	2.812	2.490	1.687	2.375	
40P-40BWSF-160	40P-40BWSFN-160	2.50	2.50	2.31	.375	3.312	2.995	2.125	2.875	
48P-48BWSF-160	48P-48BWSFN-160	3.00	3.00	2.31	.375	4.000	3.615	2.624	3.500	

Butt Weld Flange Head

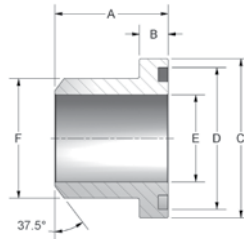


Figure 1

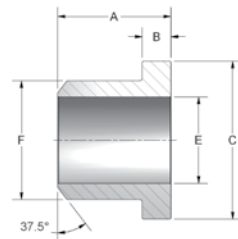


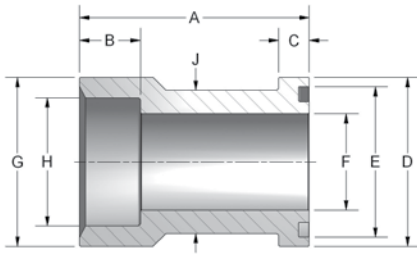
Figure 2

CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 80 PIPE									
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F
8P-8BWSFX-80	8P-8BWSFXN-80	.50	.50	1.10	.305	1.250	1.000	.548	.840
12P-12BWSFX-80	12P-12BWSFXN-80	.75	.75	1.42	.345	1.625	1.250	.744	1.050
16P-16BWSFX-80	16P-16BWSFXN-80	1.00	1.00	1.61	.375	1.875	1.560	.959	1.315
20P-20BWSFX-80	20P-20BWSFXN-80	1.25	1.25	1.73	.405	2.125	1.750	1.280	1.660
24P-24BWSFX-80	24P-24BWSFXN-80	1.50	1.50	2.17	.495	2.500	2.115	1.502	1.900
32P-32BWSFX-80	32P-32BWSFXN-80	2.00	2.00	2.48	.495	3.125	2.490	1.941	2.375

CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHEDULE 160 PIPE									
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F
8P-8BWSFX-160	8P-8BWSFXN-160	.50	.50	1.10	.305	1.250	1.000	.464	.840
12P-12BWSFX-160	12P-12BWSFXN-160	.75	.75	1.42	.345	1.625	1.250	.612	1.050
16P-16BWSFX-160	16P-16BWSFXN-160	1.00	1.00	1.61	.375	1.875	1.560	.815	1.315
20P-20BWSFX-160	20P-20BWSFXN-160	1.25	1.25	1.73	.405	2.125	1.750	1.160	1.660
24P-24BWSFX-160	24P-24BWSFXN-160	1.50	1.50	2.17	.495	2.500	2.115	1.338	1.900
32P-32BWSFX-160	32P-32BWSFXN-160	2.00	2.00	2.48	.495	3.125	2.490	1.687	2.375

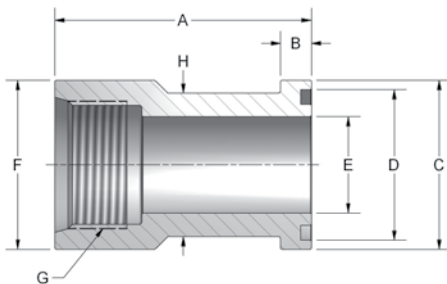
CODE 62 BUTT WELD TO FLANGE HEAD FOR SCHEDULE XXS PIPE									
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F
8P-8BWSFX-XXS	8P-8BWSFXN-XXS	.50	.50	1.10	.305	1.250	1.000	.252	.840
12P-12BWSFX-XXS	12P-12BWSFXN-XXS	.75	.75	1.42	.345	1.625	1.250	.434	1.050
16P-16BWSFX-XXS	16P-16BWSFXN-XXS	1.00	1.00	1.61	.375	1.875	1.560	.599	1.315
20P-20BWSFX-XXS	20P-20BWSFXN-XXS	1.25	1.25	1.73	.405	2.125	1.750	.896	1.660
24P-24BWSFX-XXS	24P-24BWSFXN-XXS	1.50	1.50	2.17	.495	2.500	2.115	1.100	1.900
32P-32BWSFX-XXS	32P-32BWSFXN-XXS	2.00	2.00	2.48	.495	3.125	2.490	1.503	2.375

Female Flange Head Adapter



CODE 61 SOCKET WELD TO FLANGE HEAD FOR PIPE											
PART NO.	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F	G	H	J
8P-8WSF	.50	.50	2.34	.56	.265	1.187	1.000	.500	1.25	.855	.924
12P-12WSF	.75	.75	2.34	.56	.265	1.500	1.250	.750	1.50	1.062	1.234
16P-16WSF	1.00	1.00	2.38	.63	.315	1.750	1.560	1.000	1.75	1.328	1.484
20P-20WSF	1.25	1.25	2.62	.68	.315	2.000	1.750	1.250	2.00	1.672	1.684
24P-24WSF	1.50	1.50	2.88	.76	.315	2.375	2.115	1.500	2.38	1.922	1.964
32P-32WSF	2.00	2.00	3.00	.88	.375	2.812	2.490	2.000	2.81	2.406	2.434
40P-40WSF	2.50	2.50	3.06	1.00	.375	3.312	2.995	2.500	3.31	2.906	2.920
48P-48WSF	3.00	3.00	3.88	1.25	.375	4.000	3.615	2.875	4.00	3.547	3.534

CODE 62 SOCKET WELD TO FLANGE HEAD FOR PIPE											
PART NO.	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F	G	H	J
W53-12-12	.75	.75	2.75	.630	.345	1.625	1.250	.750	1.750	1.062	1.234
W53-16-16	1.00	1.00	3.06	.630	.375	1.875	1.560	1.000	2.000	1.328	1.484
W53-20-20	1.25	1.25	3.31	.690	.405	2.125	1.750	1.125	2.312	1.672	1.704
W53-24-24	1.50	1.50	3.93	.750	.495	2.500	2.115	1.375	2.750	1.922	1.984
W53-32-32	2.00	2.00	4.06	.880	.495	3.125	2.490	1.875	3.125	2.406	2.604



CODE 61 NPTF THREAD TO FLANGE HEAD										
PART NO.	PIPE SIZE	CLAMP SIZE	A	B	C	D	E	F	G	H
12F-12FO	.75	.75	2.47	.265	1.500	1.250	.75	1.50	.75	1.234
16F-16FO	1.00	1.00	2.66	.315	1.750	1.560	1.00	1.75	1.00	1.484
20F-20FO	1.25	1.25	2.84	.315	2.000	1.750	1.25	2.00	1.25	1.684
24F-24FO	1.50	1.50	3.00	.315	2.375	2.115	1.50	2.38	1.50	1.964
32F-32FO	2.00	2.00	3.00	.375	2.812	2.490	2.00	2.81	2.00	2.434

CODE 61 SAE THREAD TO FLANGE HEAD										
PART NO.	TUBE SIZE	CLAMP SIZE	A	B	C	D	E	F	G	H
12S-12FO	.75	.75	2.47	.265	1.500	1.250	.75	1.50	1 1/16-12	1.234
16S-16FO	1.00	1.00	2.66	.315	1.750	1.560	1.00	1.75	1 5/16-12	1.484
20S-20FO	1.25	1.25	2.84	.315	2.000	1.750	1.25	2.00	1 5/8-12	1.684
24S-24FO	1.50	1.50	3.00	.315	2.375	2.115	1.50	2.38	1 7/8-12	1.964
32S-32FO	2.00	2.00	3.00	.375	2.812	2.490	2.00	2.81	2 1/2-12	2.434

Tube Flange Head Fitting

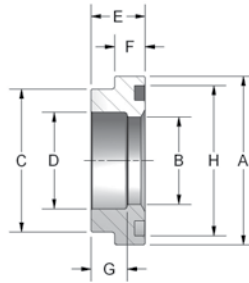


Figure 1

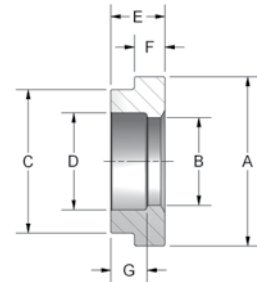


Figure 2

*For sizes not listed, please consult factory.

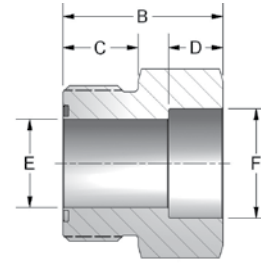
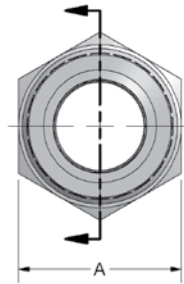
CODE 61 TUBE FLANGE HEAD FITTING											
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	FLANGE SIZE	A	B	C	D	E	F	G	H
8T-8SF	8T-8SFN	.50	.50	1.188	.406	.924	.502	.50	.265	.312	1.000
10T-8SF	10T-8SFN	.63	.50	1.188	.500	.924	.627	.50	.265	.312	1.000
12T-12SF	12T-12SFN	.75	.75	1.500	.656	1.234	.752	.56	.265	.375	1.250
16T-12SF	16T-12SFN	1.00	.75	1.500	.750	1.234	1.002	.56	.265	.375	1.250
16T-16SF	16T-16SFN	1.00	1.00	1.750	.906	1.484	1.002	.56	.315	.375	1.560
20T-16SF	20T-16SFN	1.25	1.00	1.750	1.000	1.484	1.252	.56	.315	.375	1.560
20T-20SF	20T-20SFN	1.25	1.25	2.000	1.125	1.684	1.252	.56	.315	.375	1.750
24T-20SF	24T-20SFN	1.50	1.25	2.000	1.250	1.684	1.502	.56	.315	.375	1.750
24T-24SF	24T-24SFN	1.50	1.50	2.375	1.375	1.964	1.502	.62	.315	.438	2.115
28T-24SF	28T-24SFN	1.75	1.50	2.375	1.500	1.964	1.752	.62	.315	.438	2.115
32T-32SF	32T-32SFN	2.00	2.00	2.812	1.875	2.434	2.002	.62	.375	.500	2.490
36T-32SF	36T-32SFN	2.25	2.00	2.812	2.000	2.434	2.252	.62	.375	.437	2.490
40T-40SF	40T-40SFN	2.50	2.50	3.312	2.375	2.904	2.502	.68	.375	.562	2.995
44T-40SF	44T-40SFN	2.75	2.50	3.312	2.500	2.904	2.752	.68	.375	.500	2.995
48T-48SF	48T-48SFN	3.00	3.00	4.000	2.875	3.534	3.002	.75	.375	.562	3.615
56T-56SF	56T-56SFN	3.50	3.50	4.500	3.380	3.980	3.502	.88	.440	.750	4.100
64T-64SF	64T-64SFN	4.00	4.00	5.000	3.880	4.480	4.040	1.00	.440	.810	4.600
80T-80SF	80T-80SFN	5.00	5.00	6.000	4.880	5.480	5.002	1.13	.440	.940	5.600

CODE 62 TUBE FLANGE HEAD FITTING											
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	FLANGE SIZE	A	B	C	D	E	F	G	H
12T-12SFX	12T-12SFXN	.75	.75	1.625	.656	1.234	.752	.69	.345	.500	1.250
16T-12SFX	16T-12SFXN	1.00	.75	1.625	.750	1.234	1.002	.69	.345	.500	1.250
16T-16SFX	16T-16SFXN	1.00	1.00	1.875	.810	1.484	1.002	.81	.375	.625	1.560
20T-16SFX	20T-16SFXN	1.25	1.00	1.875	1.000	1.484	1.252	.81	.375	.625	1.560
20T-20SFX	20T-20SFXN	1.25	1.25	2.125	1.010	1.704	1.252	1.00	.405	.812	1.750
24T-20SFX	24T-20SFXN	1.50	1.25	2.125	1.250	1.704	1.502	1.00	.405	.812	1.750
24T-24SFX	24T-24SFXN	1.50	1.50	2.500	1.250	1.984	1.502	1.19	.495	1.000	2.115
28T-24SFX	28T-24SFXN	1.75	1.50	2.500	1.500	1.984	1.757	1.19	.495	1.000	2.115
32T-32SFX	32T-32SFXN	2.00	2.00	3.125	1.750	2.604	2.002	1.50	.495	1.375	2.490
36T-32SFX	36T-32SFXN	2.25	2.00	3.125	2.000	2.604	2.252	1.50	.495	1.312	2.490

Braze-On Tube Fittings



- AISI 1020 Carbon Steel Material
- Natural Finish
- O-Ring groove per SAE J1453
- O-Ring not included

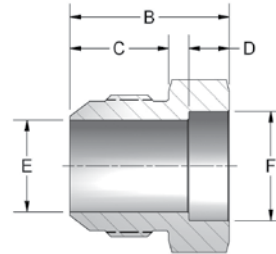


BRAZE-ON TUBE FITTINGS								
PART NO.	TUBE SIZE	ORFS THREAD SIZE	A	B	C	D	E	F
1453-04-04	1/4"	9/16"-18	.625	.780	.394	.250	.177	.252
1453-05-04	5/16"	9/16"-18	.625	.780	.394	.250	.177	.315
1453-06-04	3/8"	9/16"-18	.750	.780	.394	.250	.177	.377
1453-06-06	3/8"	11/16"-16	.750	.830	.264	.250	.256	.377
1453-08-06	1/2"	11/16"-16	.875	.950	.264	.375	.256	.502
1453-08-08	1/2"	13/16"-16	.875	1.010	.378	.375	.374	.502
1453-10-08	5/8"	13/16"-16	.937	1.060	.378	.375	.374	.627
1453-12-08	3/4"	13/16"-16	1.125	1.040	.378	.375	.374	.752
1453-14-08	7/8"	13/16"-16	1.250	1.09	.378	.375	.374	.877
1453-10-10	5/8"	1"-14	1.062	1.120	.610	.375	.492	.627
1453-12-10	3/4"	1"-14	1.125	1.150	.610	.375	.492	.752
1453-16-10	1"	1"-14	1.375	1.340	.610	.500	.492	1.002
1453-12-12	3/4"	1-3/16"-12	1.250	1.210	.670	.375	.609	.752
1453-14-12	7/8"	1-3/16"-12	1.250	1.210	.670	.375	.609	.877
1453-16-12	1"	1-3/16"-12	1.500	1.450	.670	.500	.609	1.002
1453-16-16	1"	1-7/16"-12	1.500	1.470	.689	.500	.807	1.002
1453-20-16	1-1/4"	1-7/16"-12	1.750	1.470	.689	.500	.807	1.252
1453-20-20	1-1/4"	1-11/16"-12	1.750	1.470	.689	.500	1.024	1.252
1453-24-20	1-1/2"	1-11/16"-12	2.000	1.470	.689	.500	1.024	1.502
1453-24-24	1-1/2"	2"-12	2.125	1.470	.689	.500	1.260	1.502
1453-28-24	1-3/4"	2"-12	2.125	1.470	.689	.531	1.260	1.752

JIC Braze-On Fittings

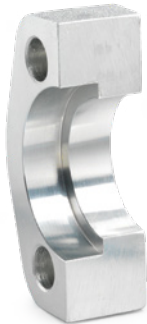


- AISI 1020 Carbon Steel Material
- Natural Finish
- 37° Male JIC per SAE J514



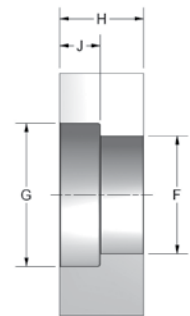
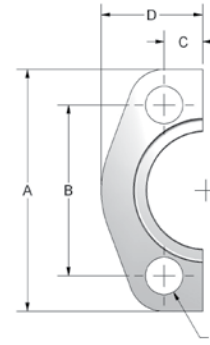
JIC BRAZE-ON								
PART NO.	TUBE SIZE	JIC THREAD SIZE	A	B	C	D	E	F
51437-6-6	3/8"	9/16"-18	.625	.906	.556	.250	.297	.377
51437-8-8	1/2"	3/4"-16	.813	1.063	.657	.250	.391	.502
51437-12-12	3/4"	1 1/16"-12	1.125	1.344	.864	.312	.609	.752

CAT-Style Split Flanges



Fits Caterpillar Flange Head ends only

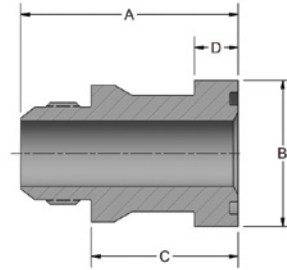
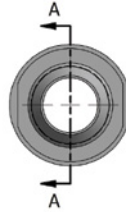
* CAT-Style Flange Plugs also available. Consult factory for details.



PTX SERIES SPLIT FLANGES												
PART NO.	**KIT PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	MOUNTING HARDWARE
												HHCS
12PTX-2	12PTX0	.75	2.950	2.000	.446	1.210	.406	1.270	1.632	1.102	.530	3/8-16X1.75
16PTX-2	16PTX0	1.00	3.190	2.250	.507	1.335	.469	1.550	1.884	1.102	.530	7/16-14X1.75
20PTX-2	20PTX0	1.25	3.750	2.625	.585	1.490	.531	1.750	2.134	1.102	.530	1/2-13X2.00
24PTX-2	24PTX0	1.50	4.440	3.125	.679	1.335	.656	2.030	2.509	1.258	.530	5/8-11X2.50
32PTX-2	32PTX0	2.00	5.240	3.812	.834	2.205	.827	2.640	3.130	1.457	.530	3/4-10X2.75

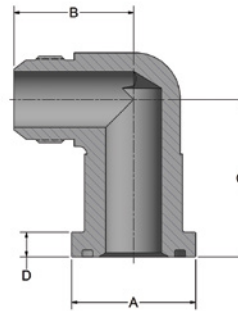


CAT-Style Split Flange Adapters



CAT-STYLE JIC THREAD								
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	D	THREAD	O-RING
609-12-12	3/4"	3/4"	2.750	1.625	1.890	0.560	1 1/16-12"	214
609-16-16	1"	1"	2.800	1.875	1.890	0.560	1 5/16-12"	219
609-20-20	1 1/4"	1 1/4"	3.050	2.125	2.090	0.560	1 5/8-12"	222
609-24-24	1 1/2"	1 1/2"	3.500	2.500	2.420	0.560	1 7/8-12"	225

* Additional sizes and configurations available upon request



CAT-STYLE JIC THREAD								
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	D	THREAD	O-RING
699-16-16	1"	1"	1.875	1.810	2.370	0.560	1 5/16-12"	219
699-16-20	1"	1 1/4"	2.125	2.060	2.760	0.560	1 5/16-12"	222
699-20-20	1 1/4"	1 1/4"	2.125	2.060	2.760	0.560	1 5/8-12"	222

Flange Plug

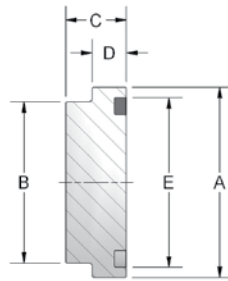


Figure 1

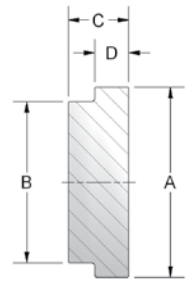
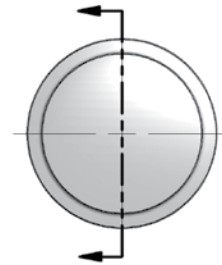
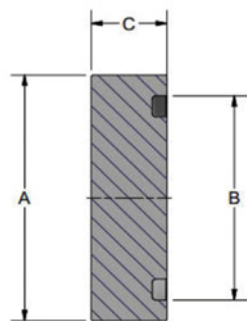


Figure 2

CODE 61 FLANGE PLUG							
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	FLANGE SIZE	A	B	C	D	E
8FOP	8FP	.50	1.188	.924	.50	.265	1.000
12FOP	12FP	.75	1.500	1.234	.56	.265	1.250
16FOP	16FP	1.00	1.750	1.484	.56	.315	1.560
20FOP	20FP	1.25	2.000	1.684	.56	.315	1.750
24FOP	24FP	1.50	2.375	1.964	.62	.315	2.115
32FOP	32FP	2.00	2.810	2.434	.62	.375	2.490
40FOP	40FP	2.50	3.312	2.904	.68	.375	2.995
48FOP	48FP	3.00	4.000	3.534	.75	.375	3.615

CODE 62 FLANGE PLUG							
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	FLANGE SIZE	A	B	C	D	E
12FOPX	12FPX	.75	1.625	1.234	.690	.345	1.250
16FOPX	16FPX	1.00	1.875	1.484	.810	.375	1.560
20FOPX	20FPX	1.25	2.125	1.704	1.000	.405	1.750
24FOPX	24FPX	1.50	2.500	1.984	1.190	.495	2.115
32FOPX	32FPX	2.00	3.125	2.604	1.500	.495	2.490

CAT-Style Flange Plug



CAT-STYLE FLANGE PLUG					
PART NO.	FLANGE SIZE	A	B	C	O-RING NO.
8COPX	.500	1.250	1.00	.560	210
12COPX	.750	1.625	1.250	.560	214
16COPX	1.00	1.875	1.560	.560	219
20COPX	1.25	2.125	1.750	.560	222
24COPX	1.50	2.500	2.115	.560	225
32COPX	2.00	3.125	2.490	.560	228

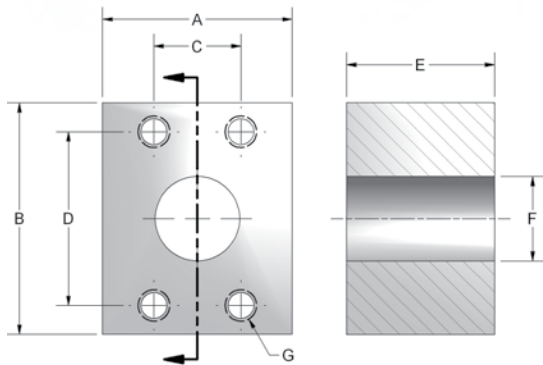
Connector Block & Plate



Used to connect two o-ring flanges

CODE 61 CONNECTOR BLOCK

PART NO.	PAD SIZE	A	B	C	D	E	F	G UNC-2B
ACB 8-8	.50	2.00	2.12	.688	1.500	1.75	.502	5/16-18
ACB 12-12	.75	2.00	2.62	.875	1.875	1.75	.752	3/8-16
ACB 16-16	1.00	2.25	2.75	1.031	2.062	1.75	1.002	3/8-16
ACB 20-20	1.25	3.00	3.19	1.188	2.312	2.125	1.252	7/16-14
ACB 24-24	1.50	3.50	3.75	1.406	2.750	2.125	1.502	1/2-13
ACB 32-32	2.00	3.88	4.00	1.688	3.062	2.125	1.942	1/2-13
ACB 40-40	2.50	4.38	4.50	2.000	3.500	2.375	2.442	1/2-13



CODE 62 CONNECTOR BLOCK

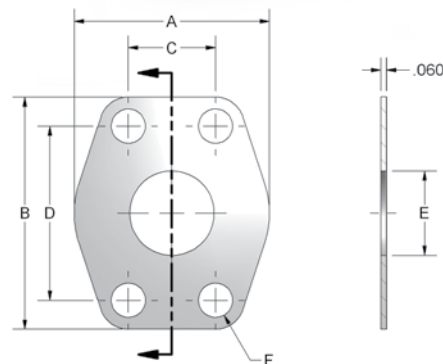
PART NO.	PAD SIZE	A	B	C	D	E	F	G UNC-2B
ACBX 8-8	.50	2.00	2.22	.718	1.594	1.75	.502	5/16-18
ACBX 12-12	.75	2.50	2.81	.937	2.000	2.00	.752	3/8-16
ACBX 16-16	1.00	2.75	3.19	1.093	2.250	2.00	1.002	7/16-14
ACBX 20-20	1.25	3.00	3.75	1.250	2.625	2.00	1.252	1/2-13
ACBX 24-24	1.50	3.88	4.50	1.437	3.125	2.50	1.502	5/8-11
ACBX 32-32	2.00	4.50	5.25	1.750	3.812	2.95	1.942	3/4-10

CODE 61 CONNECTOR PLATE

PART NO.	PAD SIZE	A	B	C	D	E	F
8 CP	.50	1.81	2.12	.688	1.500	.50	.344
12 CP	.75	2.06	2.56	.875	1.875	.75	.406
16 CP	1.00	2.31	2.75	1.031	2.062	1.00	.406
20 CP	1.25	2.88	3.12	1.188	2.312	1.25	.469
24 CP	1.50	3.25	3.69	1.406	2.750	1.50	.531
32 CP	2.00	3.81	4.00	1.688	3.062	2.00	.531
40 CP	2.50	4.12	4.44	2.000	3.500	2.50	.531
48 CP	3.00	5.16	5.31	2.438	4.188	3.00	.656

CODE 62 CONNECTOR PLATE

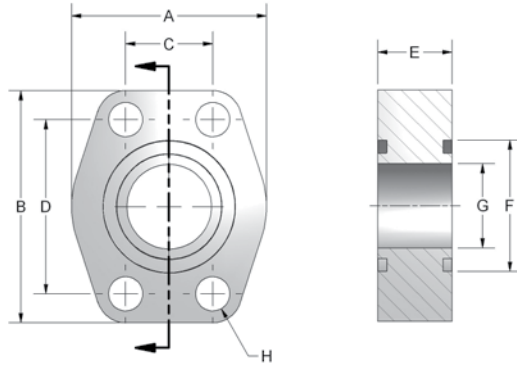
PART NO.	PAD SIZE	A	B	C	D	E	F
12 CPX	.75	2.38	2.81	.937	2.000	.750	.406
16 CPX	1.00	2.75	3.19	1.093	2.250	1.000	.469
20 CPX	1.25	3.06	3.75	1.250	2.625	1.250	.531
24 CPX	1.50	3.75	4.44	1.437	3.125	1.500	.656
32 CPX	2.00	4.50	5.25	1.750	3.812	2.000	.781



Double O-Ring Union



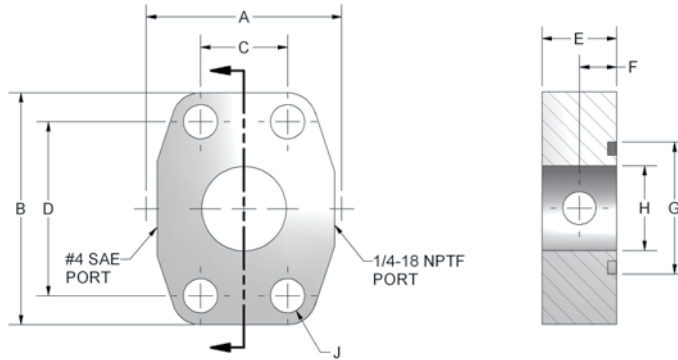
Used to connect two flat faced flanges



CODE 61 DOUBLE O-RING SPACER									
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H
ADOS-8-8	.50	1.813	2.125	.688	1.50	.75	1.000	.502	.344
ADOS-12-12	.75	2.063	2.563	.875	1.875	.75	1.250	.752	.406
ADOS-16-16	1.00	2.313	2.750	1.031	2.063	.88	1.560	1.002	.406
ADOS-20-20	1.25	2.875	3.125	1.188	2.313	.94	1.750	1.252	.469
ADOS-24-24	1.50	3.250	3.688	1.406	2.750	1.19	2.115	1.502	.531
ADOS-32-32	2.00	3.813	4.000	1.688	3.063	1.44	2.490	2.002	.531
ADOS-40-40	2.50	4.281	4.500	2.000	3.500	1.82	2.995	2.502	.531
ADOS-48-48	3.00	5.156	5.313	2.438	4.188	2.19	3.615	3.002	.656
ADOS-56-56	3.50	5.500	6.000	2.750	4.750	1.44	4.095	3.502	.656
ADOS-64-64	4.00	6.00	6.38	3.062	5.125	1.44	4.595	4.002	.656

CODE 62 DOUBLE O-RING SPACER									
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H
ADOSX-8-8	.500	1.94	2.30	.718	1.594	1.25	1.000	.502	.344
ADOSX-12-12	.750	2.50	2.95	.937	2.000	1.25	1.250	.752	.406
ADOSX-16-16	1.00	2.75	3.19	1.093	2.250	1.50	1.560	1.002	.492
ADOSX-20-20	1.25	3.06	3.75	1.250	2.625	1.43	1.750	1.252	.531
ADOSX-24-24	1.50	3.75	4.44	1.437	3.125	1.82	2.115	1.502	.656
ADOSX-32-32	2.00	4.50	5.25	1.750	3.812	1.82	2.490	2.002	.781
ADOSX-40-40	2.50	5.87	6.87	2.311	4.874	1.93	2.995	2.502	.906
ADOSX-48-48	3.00	7.00	8.50	2.811	6.000	2.69	3.615	3.002	1.156

Gauge Port Spacer



CODE 61 GAUGE PORT O-RING SPACER

PART NO.	PAD SIZE	A	B	C	D	E	F	G	H	J
AS-8-GP	.50	1.82	2.16	.688	1.500	1.25	.62	1.000	.502	.344
AS-12-GP	.75	2.06	2.69	.875	1.875	1.25	.62	1.250	.752	.406
AS-16-GP	1.00	2.31	2.75	1.031	2.062	.88	.44	1.560	1.002	.406
AS-20-GP	1.25	2.87	3.12	1.188	2.312	.94	.47	1.750	1.252	.469
AS-24-GP	1.50	3.25	3.68	1.406	2.750	1.19	.59	2.115	1.502	.531
AS-32-GP	2.00	3.81	4.00	1.688	3.062	1.38	.69	2.490	2.002	.531
AS-40-GP	2.50	4.28	4.50	2.000	3.500	1.75	.88	2.995	2.502	.531
AS-48-GP	3.00	5.15	5.31	2.438	4.188	2.12	1.06	3.615	3.002	.656
AS-56-GP	3.50	5.50	6.00	2.750	4.750	1.44	.720	4.095	3.502	.656
AS-64-GP	4.00	6.00	6.38	3.062	5.125	1.50	.750	4.595	4.002	.656

CODE 62 GAUGE PORT O-RING SPACER

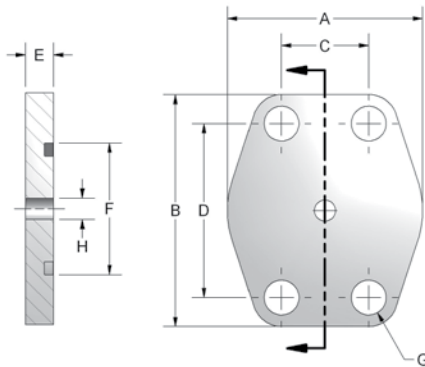
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H	J
ASX-8-GP	.50	1.94	2.30	.718	1.594	1.25	.62	1.000	.502	.344
ASX-12-GP	.75	2.50	2.95	.937	2.000	1.25	.62	1.250	.752	.406
ASX-16-GP	1.00	2.75	3.19	1.093	2.250	1.50	.75	1.560	1.002	.492
ASX-20-GP	1.25	3.06	3.75	1.250	2.625	1.50	.75	1.750	1.252	.531
ASX-24-GP	1.50	3.75	4.44	1.437	3.125	1.75	.88	2.115	1.502	.656
ASX-32-GP	2.00	4.50	5.25	1.750	3.812	1.75	.88	2.490	2.002	.781
ASX-40-GP	2.50	5.87	6.87	2.311	4.874	2.06	1.03	2.995	2.502	.906
ASX-48-GP	3.00	7.00	8.50	2.811	6.000	2.62	1.31	3.615	3.002	1.156

#4 SAE and 1/4" NPTF plugs provided with gauge port spacers

Orifice Plate



CODE 61 ORIFICE PLATE									
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H DIA.
AOP-___-0861	.50	1.81	2.12	.688	1.500	.33	1.000	.344	CUSTOMER SPECIFIED
AOP-___-1261	.75	2.06	2.56	.875	1.875	.33	1.250	.413	
AOP-___-1661	1.00	2.31	2.75	1.031	2.063	.33	1.560	.413	
AOP-___-2061	1.25	2.88	3.12	1.188	2.313	.33	1.750	.469	
AOP-___-2461	1.50	3.25	3.69	1.406	2.750	.33	2.115	.531	
AOP-___-3261	2.00	3.81	4.00	1.688	3.063	.33	2.490	.531	
AOP-___-4061	2.50	4.28	4.50	2.000	3.500	.33	2.995	.531	
AOP-___-4861	3.00	5.16	5.31	2.438	4.188	.33	3.615	.656	
AOP-___-5661	3.50	5.50	6.00	2.750	4.750	.33	4.095	.656	
AOP-___-6461	4.00	6.00	6.38	3.062	5.125	.33	4.595	.656	



CODE 62 ORIFICE PLATE									
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H DIA.
AOPX-___-0862	.50	1.94	2.19	.718	1.594	.33	1.000	.354	CUSTOMER SPECIFIED
AOPX-___-1262	.75	2.50	2.81	.937	2.000	.33	1.250	.433	
AOPX-___-1662	1.00	2.75	3.19	1.093	2.250	.33	1.560	.531	
AOPX-___-2062	1.25	3.06	3.75	1.250	2.625	.33	1.750	.610	
AOPX-___-2462	1.50	3.75	4.44	1.437	3.125	.33	2.115	.689	
AOPX-___-3262	2.00	4.50	5.25	1.750	3.812	.33	2.490	.866	

ORDERING INFORMATION

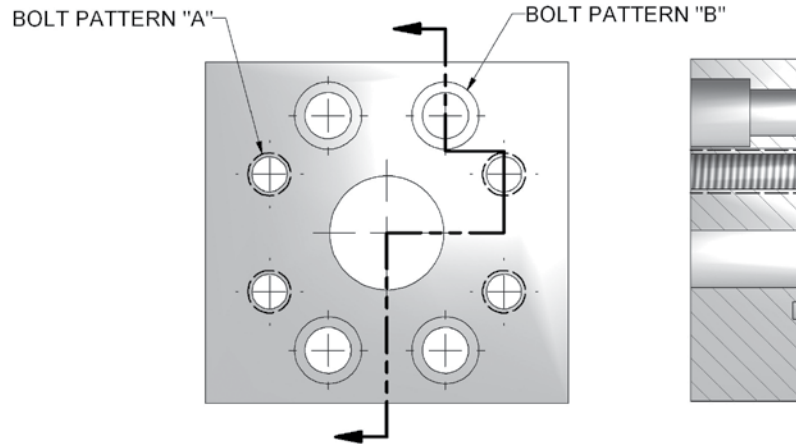
AOP - 0.500 - 32 61

Orifice Size
In Inches
(0.500" would be
AOP-0.500-)

Flange
Size

Code 61 or
Code 62

Bolt Pattern Adapters

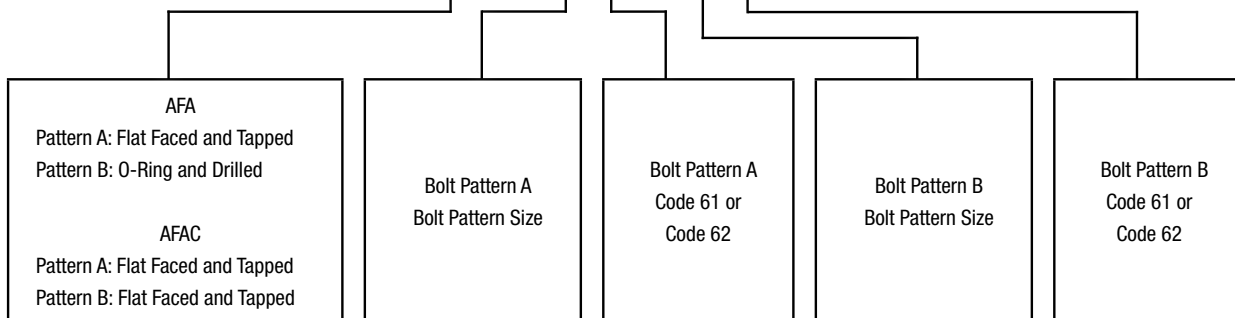


Outer envelope shape may vary due to size configuration.

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

ORDERING INFORMATION

AFA - 1261 - 3262



Blanking

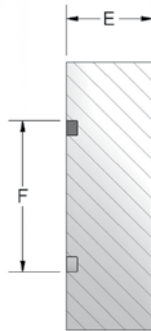


Figure 1

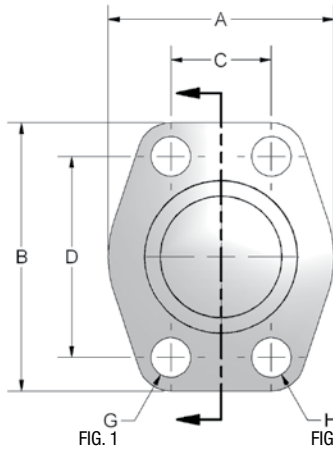


FIG. 1

FIG. 2

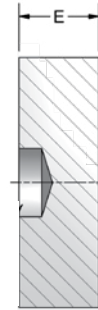


Figure 2

Location hole may be present on some parts but does not affect functionality.

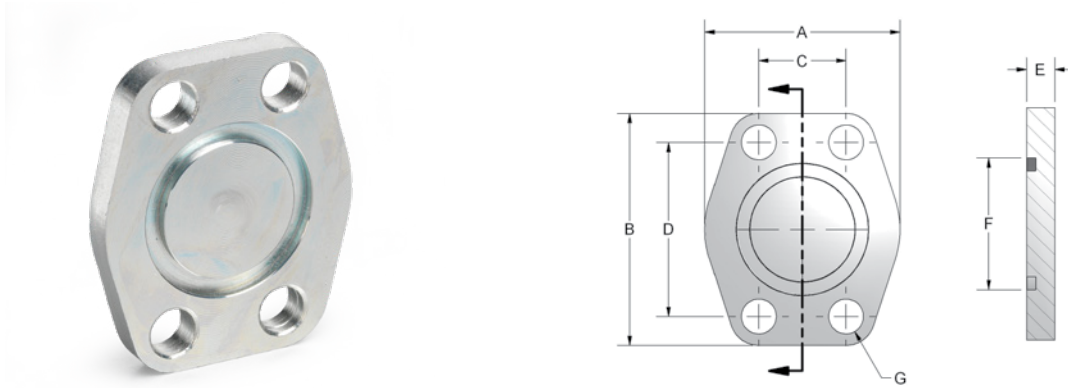
CODE 61 BLANKING												
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H UNC-2B	MOUNTING HARDWARE	
											O-RING	SHCS
W36-8-8	W37-8-8	.50	1.813	2.125	.688	1.50	.75	1.000	.344	5/16-18	210	5/16-18X1.50
W36-12-12	W37-12-12	.75	2.063	2.563	.875	1.875	.75	1.250	.406	3/8-16	214	3/8-16X1.50
W36-16-16	W37-16-16	1.00	2.313	2.750	1.031	2.063	.88	1.560	.406	3/8-16	219	3/8-16X1.75
W36-20-20	W37-20-20	1.25	2.875	3.125	1.188	2.313	.94	1.750	.469	7/16-14	222	7/16-14X1.75
W36-24-24	W37-24-24	1.50	3.250	3.688	1.406	2.750	1.19	2.115	.531	1/2-13	225	1/2-13X2.25
W36-32-32	W37-32-32	2.00	3.813	4.000	1.688	3.063	1.44	2.490	.531	1/2-13	228	1/2-13X2.50
W36-40-40	W37-40-40	2.50	4.281	4.500	2.000	3.500	1.82	2.995	.531	1/2-13	232	1/2-13X2.75
W36-48-48	W37-48-48	3.00	5.156	5.313	2.438	4.188	2.19	3.615	.656	5/8-11	237	5/8-11X3.50
W36-56-56	W37-56-56	3.50	5.500	6.000	2.750	4.750	1.44	4.095	.656	5/8-11	241	5/8-11X2.75
W36-64-64	W37-64-64	4.00	6.00	6.38	3.062	5.125	1.44	4.595	.656	5/8-11	245	5/8-11X2.75
W36-80-80	W37-80-80	5.00	7.12	7.25	3.625	6.000	1.75	5.595	.656	5/8-11	253	5/8-11X3.00

CODE 62 BLANKING												
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H UNC-2B	MOUNTING HARDWARE	
											O-RING	SHCS
W38-8-8	W39-8-8	.500	1.94	2.30	.718	1.594	1.25	1.000	.344	5/16-18	210	5/16-18X2.00
W38-12-12	W39-12-12	.750	2.50	2.95	.937	2.000	1.25	1.250	.406	3/8-16	214	3/8-16X2.00
W38-16-16	W39-16-16	1.00	2.75	3.19	1.093	2.250	1.50	1.560	.492	7/16-14	219	7/16-14X2.50
W38-20-20	W39-20-20	1.25	3.06	3.75	1.250	2.625	1.43	1.750	.531	1/2-13	222	1/2-13X2.50
W38-24-24	W39-24-24	1.50	3.75	4.44	1.437	3.125	1.82	2.115	.656	5/8-11	225	5/8-11X3.00
W38-32-32	W39-32-32	2.00	4.50	5.25	1.750	3.812	1.82	2.490	.781	3/4-10	228	3/4-10X3.00
W38-40-40	W39-40-40	2.50	5.87	6.87	2.311	4.874	1.93	2.995	.906	7/8-9	232	7/8-9X3.50
W38-48-48	W39-48-48	3.00	7.00	8.50	2.811	6.000	2.69	3.615	1.190	1 1/8-7	237	1 1/8-7X4.50

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



Zero PSI Shipping Plate



Anchor Fluid Power has developed a low cost solution to leaky, gasketless port covers. Forged steel shipping plates are 0.33" thick, silver trivalent plated for resistance to oxidation, and incorporate an o-ring groove on one side for "Zero Pressure" applications. The opposite side has a machined flat-face for capping off hose ends.

Applications Include: Cylinder Port Covers, Pump Port Covers, Stub-Out Header Line Covers, Maintenance Work and Great for Painting Protection

CODE 61 SHIPPING PLATE											
PART NO.	**KIT PART NO.	PAD SIZE	A	B	C	D	E	F	G	MOUNTING HARDWARE	
										O-RING	HHCS
SP-8	SP-8U	.50	1.81	2.12	.688	1.500	.33	1.000	.344	210	5/16-18X.75
SP-12	SP-12U	.75	2.06	2.56	.875	1.875	.33	1.250	.413	214	3/8-16X.75
SP-16	SP-16U	1.00	2.31	2.75	1.031	2.063	.33	1.560	.413	219	3/8-16X.75
SP-20	SP-20U	1.25	2.88	3.12	1.188	2.313	.33	1.750	.469	222	7/16-14X.75
SP-24	SP-24U	1.50	3.25	3.69	1.406	2.750	.33	2.115	.531	225	1/2-13X.75
SP-32	SP-32U	2.00	3.81	4.00	1.688	3.063	.33	2.490	.531	228	1/2-13X.75
SP-40	SP-40U	2.50	4.28	4.50	2.000	3.500	.33	2.995	.531	232	1/2-13X.75
SP-48	SP-48U	3.00	5.16	5.31	2.438	4.188	.33	3.615	.656	237	5/8-11X1.00
SP-56	SP-56U	3.50	5.50	6.00	2.750	4.750	.33	4.095	.656	241	5/8-11X1.00
SP-64	SP-64U	4.00	6.00	6.38	3.062	5.125	.33	4.595	.656	245	5/8-11X1.00

CODE 62 SHIPPING PLATE											
PART NO.	**KIT PART NO.	PAD SIZE	A	B	C	D	E	F	G	MOUNTING HARDWARE	
										O-RING	HHCS
SPX-8	SPX-8U	.50	1.94	2.19	.718	1.594	.33	1.000	.354	210	5/16-18X.75
SPX-12	SPX-12U	.75	2.50	2.81	.937	2.000	.33	1.250	.433	214	3/8-16X.75
SPX-16	SPX-16U	1.00	2.75	3.19	1.093	2.250	.33	1.560	.531	219	7/16-14X.75
SPX-20	SPX-20U	1.25	3.06	3.75	1.250	2.625	.33	1.750	.610	222	1/2-13X.75
SPX-24	SPX-24U	1.50	3.75	4.44	1.437	3.125	.33	2.115	.689	225	5/8-11X1.00
SPX-32	SPX-32U	2.00	4.50	5.25	1.750	3.812	.33	2.490	.866	228	3/4-10X1.00
SPX-40	SPX-40U	2.50	5.87	6.87	2.311	4.874	.33	2.995	0.984	232	7/8-9X1.00
SPX-48	SPX-48U	3.00	7.00	8.50	2.811	6.00	.33	3.615	1.19	237	1 1/8-7X1.00

**When ordering this part # you will receive:(1) shipping plate, (4) hex head bolts, and (1) Buna N O-Ring

NOT FOR USE ON DYNAMIC OR PRESSURIZED APPLICATIONS

NPTF Thread

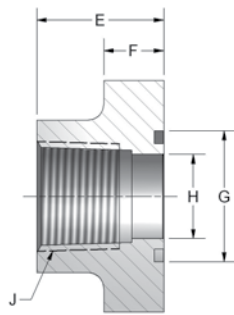
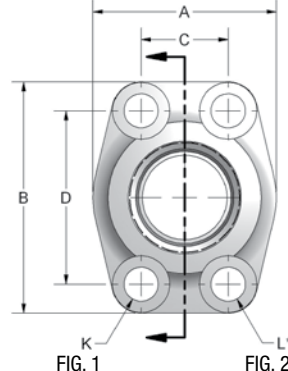


Figure 1



*No Spotface

Figure 2

CODE 61 NPTF THREAD																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PORT SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W43-8-8	W104-8-8	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	1/2-14	.344	5/16-18	210	5/16-18X1.25
W43-12-12	W104-12-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	3/4-14	.406	3/8-16	214	3/8-16X1.50
W43-16-16	W104-16-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1-11.5	.406	3/8-16	219	3/8-16X1.50
W43-20-20	W104-20-20	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	7/16-14	222	7/16-14X1.75
W43-24-24	W104-24-24	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	1/2-13	225	1/2-13X1.75
W43-32-32	W104-32-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2-11.5	.531	1/2-13	228	1/2-13X1.75
W43-40-40	W104-40-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.502	2 1/2-8	.531	1/2-13	232	1/2-13X1.75
W43-48-48	W104-48-48	3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	3.002	3-8	.656	5/8-11	237	5/8-11X2.00
W43-56-56	W104-56-56	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	5/8-11	241	5/8-11X2.00
W43-64-64	W104-64-64	4.00	4.00	5.75	6.38	3.062	5.125	2.19	1.06	4.595	3.940	4-8	.656	5/8-11	245	5/8-11X2.00

CODE 62 NPTF THREAD																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PORT SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W44-8-8	W45-8-8	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	1/2-14	.344	5/6-18	210	5/16-18X1.25
W44-12-12	W45-12-12	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	3/4-14	.406	3/8-16	214	3/8-16X1.50
W44-16-16	W45-16-16	1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1-11.5	.492	7/16-14	219	7/16-14X1.75
W44-20-20	W45-20-20	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	1/2-13	222	1/2-13X1.75
W44-24-24	W45-24-24	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	5/8-11	225	5/8-11X2.25
W44-32-32	W45-32-32	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2-11.5	.781	3/4-10	228	3/4-10X2.75

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



SAE Thread

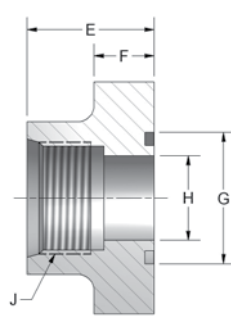


Figure 1

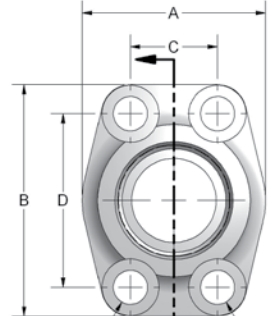


FIG. 1

FIG. 2

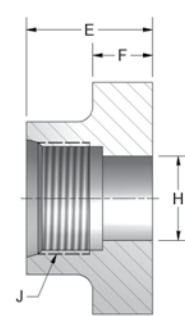


Figure 2

*No Spotface

CODE 61 SAE STRAIGHT THREAD

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PORT SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W46-8-8	W106-8-8	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	3/4-16	.344	5/16-18	210	5/16-18X1.25
W46-12-12	W106-12-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	1 1/16-12	.406	3/8-16	214	3/8-16X1.50
W46-16-16	W106-16-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1 5/16-12	.406	3/8-16	219	3/8-16X1.50
W46-20-20	W106-20-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1 5/8-12	.469	7/16-14	222	7/16-14X1.75
W46-24-24	W106-24-24	1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1 7/8-12	.531	1/2-13	225	1/2-13X1.75
*W46-32-32	W106-32-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2 1/2-12	.531	1/2-13	228	1/2-13X1.75
**W46-40-40	W106-40-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	3.000	2.500	3-12	.530	1/2-13	232	1/2-13X1.75
**W46-48-48	W106-48-48	3.00	3.00	4.88	5.28	2.440	4.190	1.97	1.06	3.620	3.000	3 1/2-12	.660	5/8-11	237	5/8-11X2.00
**W46-64-64	W106-64-64	4.00	4.00	5.74	6.38	3.060	5.130	2.19	1.06	4.600	4.000	4 1/2-12	.660	5/8-11	245	5/8-11X2.00

*1000 PSI max for W46-32-32

**Consult Factory For Working Pressure

CODE 62 SAE STRAIGHT THREAD

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PORT SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W48-8-8	W49-8-8	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	3/4-16	.344	5/16-18	210	5/16-18X1.25
W48-12-12	W49-12-12	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	1 1/6-12	.406	3/8-16	214	3/8-16X1.50
W48-16-16	W49-16-16	1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1 5/16-12	.492	7/16-14	219	7/16-14X1.75
W48-20-20	W49-20-20	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	1/2-13	222	1/2-13X1.75
W48-24-24	W49-24-24	1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1 7/8-12	.656	5/8-11	225	5/8-11X2.25
W48-32-32	W49-32-32	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2 1/2-12	.781	3/4-10	228	3/4-10X2.75

BSPP Thread

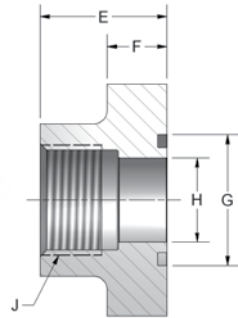


Figure 1

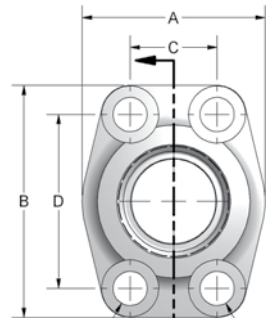


FIG. 1

FIG. 2

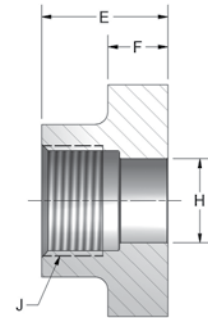


Figure 2

*No Spotface

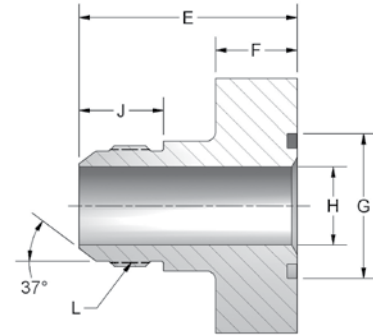
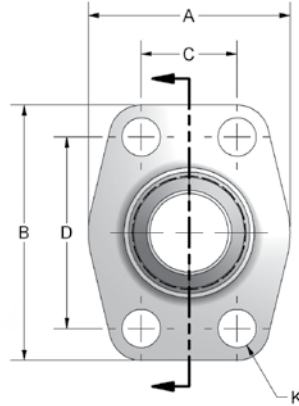
CODE 61 BSPP THREAD																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PORT SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J BSPP	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W192-8-8	W193-8-8	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	.50-14	.344	5/16-18	210	5/16-18X1.25
W192-12-12	W193-12-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	.75-14	.406	3/8-16	214	3/8-16X1.50
W192-16-16	W193-16-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1.00-11	.406	3/8-16	219	3/8-16X1.50
W192-20-20	W193-20-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1.25-11	.469	7/16-14	222	7/16-14X1.75
W192-24-24	W193-24-24	1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1.50-11	.531	1/2-13	225	1/2-13X1.75
W192-32-32	W193-32-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2.00-11	.531	1/2-13	228	1/2-13X1.75

CODE 62 BSPP THREAD																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PORT SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J BSPP	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W194-8-8	W195-8-8	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	.50-14	.344	5/16-18	210	5/16-18X1.25
W194-12-12	W195-12-12	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	.75-14	.406	3/8-16	214	3/8-16X1.50
W194-16-16	W195-16-16	1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1.00-11	.492	7/16-14	219	7/16-14X1.75
W194-20-20	W195-20-20	1.25	1.25	3.07	3.75	1.250	2.625	1.77	1.06	1.750	1.252	1.25-11	.531	1/2-13	222	1/2-13X1.50
W194-24-24	W195-24-24	1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1.50-11	.656	5/8-11	225	5/8-11X2.25
W194-32-32	W195-32-32	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2.00-11	.781	3/4-10	228	3/4-10X2.75

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



JIC Thread



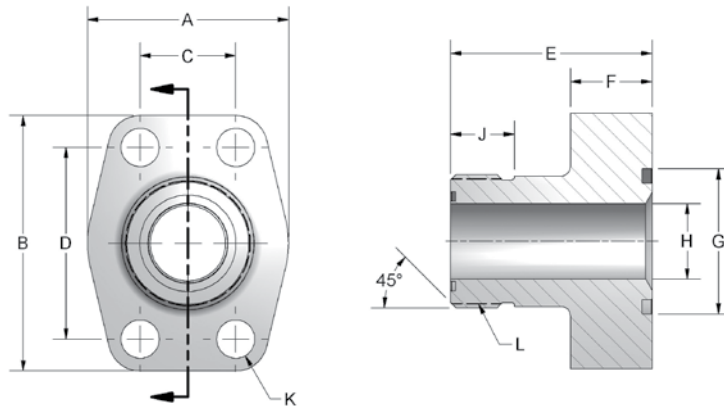
4-Bolt Flange hole pattern per SAE J518. Male JIC Thread per SAE J514.

CODE 61 MALE JIC														
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
													O-RING	SHCS
W300-8-8	.50	1.81	2.13	.688	1.500	2.00	.88	1.000	.391	.657	.344	3/4-16	210	5/16-18X1.50
W300-12-12	.75	1.97	2.56	.875	1.875	2.29	.88	1.250	.609	.864	.413	1 1/16-12	214	3/8-16X1.50
W300-16-16	1.00	2.17	2.75	1.031	2.062	2.35	.88	1.560	.844	.911	.413	1 5/16-12	219	3/8-16X1.50
W300-20-20	1.25	2.68	3.12	1.188	2.312	2.49	.88	1.750	1.078	.958	.469	1 5/8-12	222	7/16-14X1.75
W300-24-24	1.50	3.07	3.66	1.406	2.750	2.81	.98	2.115	1.312	1.083	.531	1 7/8-12	225	1/2-13X1.75

CODE 62 MALE JIC														
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
													O-RING	SHCS
W600-8-8	.50	1.81	2.21	.719	1.594	1.75	.88	1.000	.391	.657	.344	3/4-16	210	5/16-18X1.50
W600-12-12	.75	2.17	2.80	.937	2.000	2.31	.88	1.250	.609	.864	.413	1-1/16-12	214	3/8-16X1.50
W600-16-16	1.00	2.56	3.19	1.093	2.250	2.62	.98	1.560	.844	.911	.492	1-5/16-12	219	7/16-14X1.75
W600-20-20	1.25	3.07	3.75	1.250	2.625	2.81	1.06	1.750	1.078	.958	.531	1-5/8-12	222	1/2-13X1.75
W600-24-24	1.50	3.70	4.41	1.437	3.125	3.25	1.18	2.115	1.312	1.083	.656	1-7/8-12	225	5/8-11X2.25

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

ORFS Thread



4-Bolt Flange hole thread per SAE J518. Male ORFS Thread per SAE J1453-1.

CODE 61 MALE ORFS														
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
													O-RING	SHCS
W304-8-8	.50	1.81	2.13	.688	1.500	1.75	.88	1.000	.374	.512	.344	13/16-16	210	5/16-18X1.50
W304-12-12	.75	1.97	2.56	.875	1.875	2.00	.88	1.250	.611	.670	.413	1 3/16-12	214	3/8-16X1.50
W304-16-16	1.00	2.17	2.75	1.031	2.062	2.00	.88	1.560	.807	.689	.413	1 7/16-12	219	3/8-16X1.50
W304-20-20	1.25	2.68	3.12	1.188	2.312	2.25	.88	1.750	1.024	.689	.469	1 11/16-12	222	7/16-14X1.75
W304-24-24	1.50	3.07	3.66	1.406	2.750	2.50	.98	2.115	1.260	.689	.531	2-12	225	1/2-13X2.00

CODE 62 MALE ORFS														
PART NO.	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
													O-RING	SHCS
W604-8-8	.50	1.81	2.21	.719	1.594	1.75	.88	1.000	.374	.512	.344	13/16-16	210	5/16-18X1.50
W604-12-12	.75	2.17	2.80	.937	2.000	2.25	.88	1.250	.611	.670	.413	1 3/16-12	214	3/8-16X1.50
W604-16-16	1.00	2.56	3.19	1.093	2.250	2.50	.98	1.560	.807	.689	.492	1 7/16-12	219	7/16-14X1.75
W604-20-20	1.25	3.07	3.75	1.250	2.625	2.62	1.06	1.750	1.024	.689	.531	1 11/16-12	222	1/2-13X1.75
W604-24-24	1.50	3.70	4.41	1.437	3.125	2.88	1.18	2.115	1.260	.689	.656	2-12	225	5/8-11X2.25

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



Flat Socket Weld Pipe

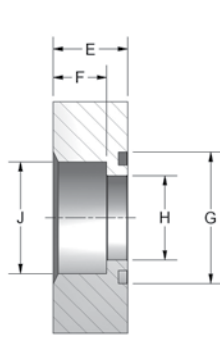


Figure 1

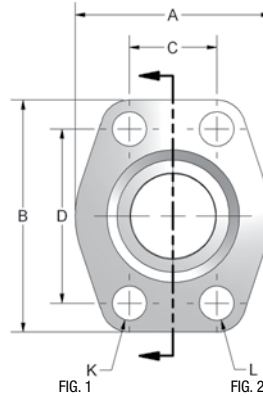


FIG. 1

FIG. 2

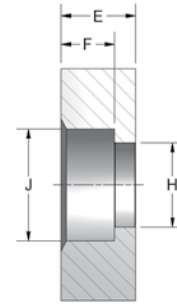


Figure 2

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

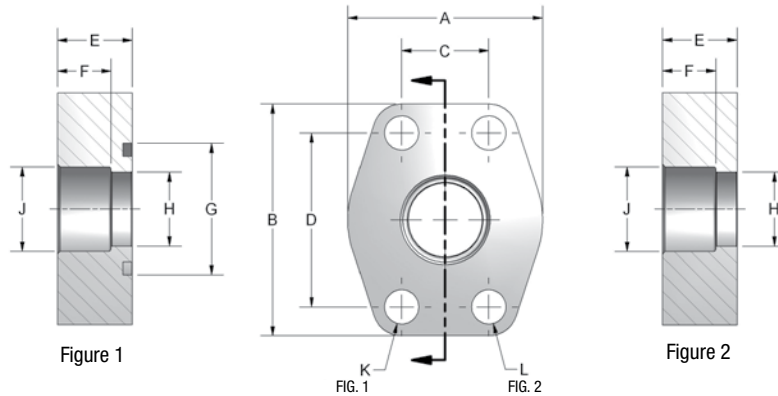
CODE 61 FLAT SOCKET WELD - PIPE																
PART NO. O-RING FIG. 1.	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
															O-RING	SHCS
W4-8-8	W61-8-8	.50	.50	1.813	2.125	.688	1.500	.750	.560	1.000	.502	.855	.344	5/16-18	210	5/16-18X1.50
W4-12-12	W61-12-12	.75	.75	2.063	2.563	.875	1.875	.750	.560	1.250	.752	1.062	.406	3/8-16	214	3/8-16X1.50
W4-16-16	W61-16-16	1.00	1.00	2.313	2.75	1.031	2.063	.880	.630	1.560	1.002	1.328	.406	3/8-16	219	3/8-16X1.75
W4-20-20	W61-20-20	1.25	1.25	2.875	3.125	1.188	2.313	.940	.690	1.750	1.252	1.672	.469	7/16-14	222	7/16-14X1.75
W4-24-24	W61-24-24	1.50	1.50	3.25	3.688	1.406	2.75	1.190	.750	2.115	1.502	1.922	.531	1/2-13	225	1/2-13X2.25
W4-32-32	W61-32-32	2.00	2.00	3.813	4.00	1.688	3.063	1.380	.875	2.490	2.002	2.406	.531	1/2-13	228	1/2-13X2.50
W4-40-40	W61-40-40	2.50	2.50	4.281	4.50	2.000	3.500	1.750	1.00	2.995	2.502	2.906	.531	1/2-13	232	1/2-13X2.75
W4-48-48	W61-48-48	3.00	3.00	5.156	5.313	2.438	4.188	2.120	1.250	3.615	3.002	3.547	.656	5/8-11	237	5/8-11X3.50

CODE 62 FLAT SOCKET WELD - PIPE																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
															O-RING	SHCS
W59-8-8	W60-8-8	.50	.50	1.94	2.30	.718	1.594	1.25	.560	1.000	.502	.855	.344	5/16-18	210	5/16-18X2.00
W59-12-12	W60-12-12	.75	.75	2.50	2.95	.937	2.000	1.250	.560	1.250	.752	1.062	.406	3/8-16	214	3/8-16X2.00
W59-16-16	W60-16-16	1.00	1.00	2.75	3.19	1.093	2.250	1.500	.630	1.560	1.002	1.328	.492	7/16-14	219	7/16-14X2.50
W59-20-20	W60-20-20	1.25	1.25	3.06	3.75	1.250	2.625	1.500	.690	1.750	1.252	1.672	.531	1/2-13	222	1/2-13X2.50
W59-24-24	W60-24-24	1.50	1.50	3.75	4.44	1.437	3.125	1.750	.750	2.115	1.502	1.922	.656	5/8-11	225	5/8-11X3.00
W59-32-32	W60-32-32	2.00	2.00	4.50	5.25	1.750	3.812	1.750	.875	2.490	2.002	2.406	.781	3/4-10	228	3/4-10X3.00
W59-40-40	W60-40-40	2.50	2.50	5.87	6.87	2.311	4.874	2.060	1.000	2.995	2.502	2.906	.906	7/8-9	232	**7/8-9X3.50
W59-48-48	W60-48-48	3.00	3.00	7.00	8.50	2.811	6.000	2.620	1.250	3.615	3.002	3.547	1.190	1-1/8-7	237	**1 1/8-7X4.50

**HHCS

CODE 61 FLAT SOCKET WELD - PIPE - ALL SIZES 500 PSI																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W72-48-48	W91-48-48	3.00	3.00	5.12	5.31	2.438	4.188	1.380	1.120	3.615	3.002	3.547	.656	5/8-11	237	5/8-11X2.50
W72-56-56	W91-56-56	3.50	3.50	5.50	6.00	2.750	4.750	1.440	1.190	4.095	3.502	4.047	.656	5/8-11	241	5/8-11X2.75
W72-64-64	W91-64-64	4.00	4.00	6.00	6.38	3.062	5.125	1.500	1.250	4.595	4.002	4.578	.656	5/8-11	245	5/8-11X2.75
W72-80-80	W91-80-80	5.00	5.00	7.12	7.25	3.625	6.000	1.750	1.380	5.595	5.002	5.641	.656	5/8-11	253	5/8-11X3.00

Flat Socket Weld Tube



CODE 61 FLAT SOCKET WELD - TUBE																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
															O-RING	SHCS
W6-12-12	W62-12-12	.75	.75	2.060	2.560	.875	1.875	.750	.560	1.250	.625	.752	.406	3/8-16	214	3/8-16X1.50
W6-16-12	W62-16-12	1.00	.75	2.060	2.560	.875	1.875	.750	.560	1.250	.750	1.002	.406	3/8-16	214	3/8-16X1.50
W6-16-16	W62-16-16	1.00	1.00	2.310	2.750	1.031	2.062	.880	.630	1.560	.875	1.002	.406	3/8-16	219	3/8-16X1.75
W6-20-16	W62-20-16	1.25	1.00	2.310	2.750	1.031	2.062	.880	.630	1.560	1.000	1.252	.406	3/8-16	219	3/8-16X1.75
W6-20-20	W62-20-20	1.25	1.25	2.880	3.120	1.188	2.312	.940	.690	1.750	1.125	1.252	.469	7/16-14	222	7/16-14X1.75
W6-24-20	W62-24-20	1.50	1.25	2.880	3.120	1.188	2.312	.940	.690	1.750	1.250	1.502	.469	7/16-14	222	7/16-14X1.75
W6-24-24	W62-24-24	1.50	1.50	3.250	3.690	1.406	2.750	1.190	.750	2.115	1.375	1.502	.531	1/2-13	225	1/2-13X2.25
W6-28-24	W62-28-24	1.75	1.50	3.250	3.690	1.406	2.750	1.190	.750	2.115	1.500	1.752	.531	1/2-13	225	1/2-13X2.25
W6-32-32	W62-32-32	2.00	2.00	3.810	4.000	1.688	3.062	1.380	.875	2.490	1.875	2.002	.531	1/2-13	228	1/2-13X2.50
W6-36-32	W62-36-32	2.25	2.00	3.810	4.000	1.688	3.062	1.380	.875	2.490	2.000	2.252	.531	1/2-13	228	1/2-13X2.50

CODE 62 FLAT SOCKET WELD - TUBE																
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	MOUNTING HARDWARE	
															O-RING	SHCS
W58-12-12	W63-12-12	.75	.75	2.50	2.95	.937	2.000	1.250	.560	1.250	.625	.752	.406	3/8-16	214	3/8-16X2.00
W58-16-12	W63-16-12	1.00	.75	2.50	2.95	.937	2.000	1.250	.560	1.250	.750	1.002	.406	3/8-16	214	3/8-16X2.00
W58-16-16	W63-16-16	1.00	1.00	2.75	3.19	1.093	2.250	1.500	.630	1.560	.875	1.002	.492	7/16-14	219	7/16-14X2.50
W58-20-16	W63-20-16	1.25	1.00	2.75	3.19	1.093	2.250	1.500	.630	1.560	1.000	1.252	.492	7/16-14	219	7/16-14X2.50
W58-20-20	W63-20-20	1.25	1.25	3.06	3.75	1.250	2.625	1.500	.690	1.750	1.125	1.252	.531	1/2-13	222	1/2-13X2.50
W58-24-20	W63-24-20	1.50	1.25	3.06	3.75	1.250	2.625	1.500	.690	1.750	1.250	1.502	.531	1/2-13	222	1/2-13X2.50
W58-24-24	W63-24-24	1.50	1.50	3.75	4.44	1.437	3.125	1.750	.750	2.115	1.375	1.502	.656	5/8-11	225	5/8-11X3.00
W58-28-24	W63-28-24	1.75	1.50	3.75	4.44	1.437	3.125	1.750	.750	2.115	1.500	1.752	.656	5/8-11	225	5/8-11X3.00
W58-32-32	W63-32-32	2.00	2.00	4.50	5.25	1.750	3.812	1.750	.875	2.490	1.875	2.002	.781	3/4-10	228	3/4-10X3.00
W58-36-32	W63-36-32	2.25	2.00	4.50	5.25	1.750	3.812	1.750	.875	2.490	2.000	2.252	.781	3/4-10	228	3/4-10X3.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



Deep Socket Weld Pipe

TEST POINT
ADAPTERS

INLINE
VALVES

BALL
VALVES

QUICK
COUPLINGS

WELD
COUPLINGS

SUCTION
AND RETURN

C/S
FLANGES

S/S
FLANGES

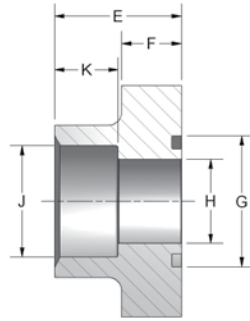


Figure 1

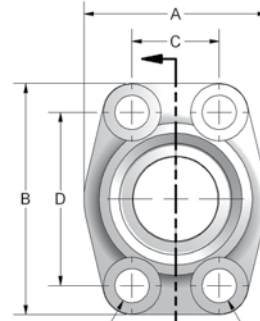


FIG. 1

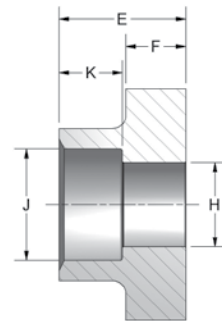


Figure 2

*No Spotface

CODE 61 DEEP SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W31-8-8	W3-8-8	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	.855	.75	.344	5/16-18	210	5/16-18X1.25
W31-12-12	W3-12-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	1.062	.75	.406	3/8-16	214	3/8-16X1.50
W31-16-16	W3-16-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1.328	.75	.406	3/8-16	219	3/8-16X1.50
W31-20-20	W3-20-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1.672	.87	.469	7/16-14	222	7/16-14X1.75
W31-24-24	W3-24-24	1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1.922	.94	.531	1/2-13	225	1/2-13X1.75
W31-32-32	W3-32-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2.406	1.02	.531	1/2-13	228	1/2-13X1.75
W31-40-40	W3-40-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.502	2.908	1.18	.531	1/2-13	232	1/2-13X1.75
W31-48-48	W3-48-48	3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	3.002	3.547	1.34	.656	5/8-11	237	5/8-11X2.00

CODE 62 DEEP SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W81-8-8	W80-8-8	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	.855	.75	.344	5/16-18	210	5/16-18X1.25
W81-12-12	W80-12-12	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	1.062	.87	.406	3/8-16	214	3/8-16X1.50
W81-16-16	W80-16-16	1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1.328	.87	.492	7/16-14	219	7/16-14X1.75
W81-20-20	W80-20-20	1.25	1.25	3.07	3.75	1.250	2.625	1.77	1.06	1.750	1.252	1.672	.98	.531	1/2-13	222	1/2-13X1.75
W81-24-24	W80-24-24	1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1.922	1.10	.656	5/8-11	225	5/8-11X2.25
W81-32-32	W80-32-32	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2.406	.94	.781	3/4-10	228	3/4-10X2.75

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Deep Socket Weld Tube

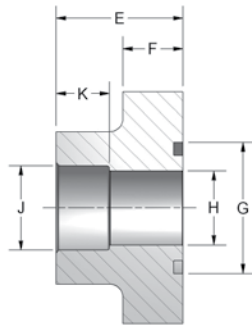


Figure 1

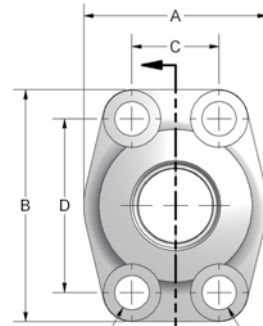


FIG. 1

FIG. 2

*No Spotface

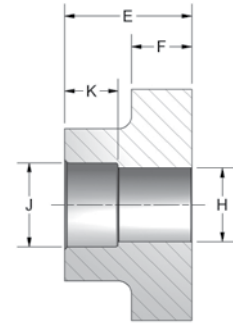


Figure 2

CODE 61 DEEP SOCKET WELD - TUBE																	
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W51-12-12	W5-12-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.625	.752	.560	.406	3/8-16	214	3/8-16X1.50
W51-16-12	W5-16-12	1.00	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.750	1.002	.560	.406	3/8-16	214	3/8-16X1.50
W51-16-16	W5-16-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.875	1.002	.630	.406	3/8-16	219	3/8-16X1.50
W51-20-16	W5-20-16	1.25	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.000	1.252	.630	.406	3/8-16	219	3/8-16X1.50
W51-20-20	W5-20-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.125	1.252	.690	.469	7/16-14	222	7/16-14X1.75
W51-24-20	W5-24-20	1.50	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.250	1.502	.690	.469	7/16-14	222	7/16-14X1.75
W51-24-24	W5-24-24	1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.375	1.502	.750	.531	1/2-13	225	1/2-13X1.75
W51-28-24	W5-28-24	1.75	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.500	1.752	.750	.531	1/2-13	225	1/2-13X1.75
W51-32-32	W5-32-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.875	2.002	.870	.531	1/2-13	228	1/2-13X1.75
W51-36-32	W5-36-32	2.25	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.000	2.252	.870	.531	1/2-13	228	1/2-13X1.75
W51-40-40	W5-40-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.375	2.502	1.000	.531	1/2-13	232	1/2-13X1.75
W51-44-40	W5-44-40	2.75	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.500	2.752	1.000	.531	1/2-13	232	1/2-13X1.75

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Butt Weld Pipe

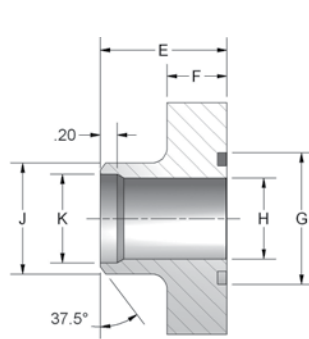


Figure 1

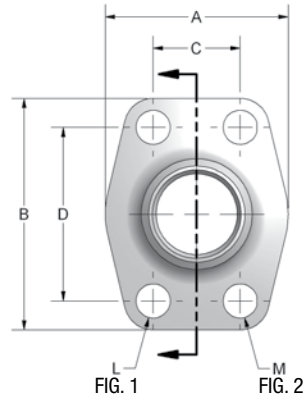


FIG. 1

FIG. 2



Figure 2

CODE 61 BUTT WELD - SCHEDULE 40 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W35-8	W34-8	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.548	.840	.624	.344	5/16-18	210	5/16-18X1.25
W35-12	W34-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.744	1.050	.846	.406	3/8-16	214	3/8-16X1.50
W35-16	W34-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.959	1.315	1.051	.406	3/8-16	219	3/8-16X1.50
W35-20	W34-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.280	1.660	1.382	.469	7/16-14	222	7/16-14X1.75
W35-24	W34-24	1.50	1.50	3.07	3.66	1.406	2.750	1.73	.98	2.115	1.502	1.900	1.612	.531	1/2-13	225	1/2-13X1.75
W35-32	W34-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.941	2.375	2.069	.531	1/2-13	228	1/2-13X1.75
W35-40	W34-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.325	2.875	2.471	.531	1/2-13	232	1/2-13X1.75
W35-48	W34-48	3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	2.902	3.500	3.070	.656	5/8-11	237	5/8-11X2.00
W35-56	W34-56	3.50	3.50	5.35	5.98	2.750	4.750	2.19	1.06	4.095	3.366	4.000	3.550	.656	5/8-11	241	5/8-11X2.00
W35-64	W34-64	4.00	4.00	5.75	6.38	3.062	5.125	2.19	1.06	4.595	3.828	4.500	4.028	.656	5/8-11	245	5/8-11X2.75
W35-80*	W34-80*	5.00	5.00	7.00	7.25	3.625	6.000	2.00	1.50	5.595	4.81	5.62	5.078	.660	5/8-11	253	5/8-11X2.50

* MADE FROM BAR STOCK

CODE 61 BUTT WELD - SCHEDULE 80 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	L	M UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W24-8	W23-8	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.548	.840	.344	5/16-18	210	5/16-18X1.25
W24-12	W23-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.744	1.050	.406	3/8-16	214	3/8-16X1.50
W24-16	W23-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.959	1.315	.406	3/8-16	219	3/8-16X1.50
W24-20	W23-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.280	1.660	.469	7/16-14	222	7/16-14X1.75
W24-24	W23-24	1.50	1.50	3.07	3.66	1.406	2.750	1.73	.98	2.115	1.502	1.900	.531	1/2-13	225	1/2-13X1.75
W24-32	W23-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.941	2.375	.531	1/2-13	228	1/2-13X1.75
W24-40	W23-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.325	2.875	.531	1/2-13	232	1/2-13X1.75
W24-48	W23-48	3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	2.902	3.500	.656	5/8-11	237	5/8-11X2.00

CODE 61 BUTT WELD - SCHEDULE 160 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	L	M UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W27-8	W25-8	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.466	.840	.344	5/16-18	210	5/16-18X1.25
W27-12	W25-12	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.614	1.050	.406	3/8-16	214	3/8-16X1.50
W27-16	W25-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	.817	1.315	.406	3/8-16	219	3/8-16X1.50
W27-20	W25-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.162	1.660	.469	7/16-14	222	7/16-14X1.75
W27-24	W25-24	1.50	1.50	3.07	3.66	1.406	2.750	1.73	.98	2.115	1.340	1.900	.531	1/2-13	225	1/2-13X1.75
W27-32	W25-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	1.689	2.375	.531	1/2-13	228	1/2-13X1.75
W27-40	W25-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.127	2.875	.531	1/2-13	232	1/2-13X1.75
W27-48	W25-48	3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	2.626	3.500	.656	5/8-11	237	5/8-11X2.00

*NOTE: Also available in sizes 3 1/2", 4", and 5". Consult factory for specifications.

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Butt Weld Pipe

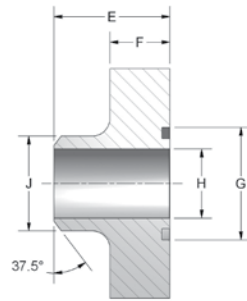


Figure 1

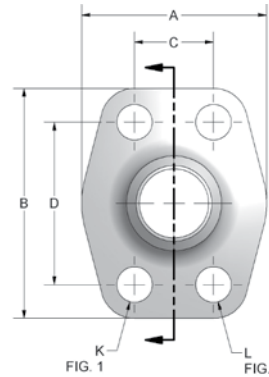


FIG. 2

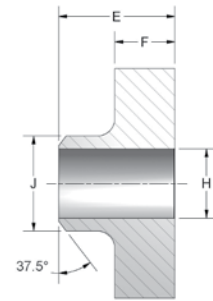


Figure 2

CODE 62 BUTT WELD - SCHEDULE 80 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W28-8	W26-8	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.548	.840	.344	5/16-18	210	5/16-18X1.25
W28-12	W26-12	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.744	1.050	.406	3/8-16	214	3/8-16X1.50
W28-16	W26-16	1.00	1.00	2.56	3.19	1.093	2.250	1.61	.83	1.560	.959	1.315	.492	7/16-14	219	7/16-14X1.75
W28-20	W26-20	1.25	1.25	3.07	3.75	1.250	2.625	1.73	.98	1.750	1.280	1.660	.531	1/2-13	222	1/2-13X1.75
W28-24	W26-24	1.50	1.50	3.70	4.41	1.437	3.125	2.17	1.18	2.115	1.502	1.900	.656	5/8-11	225	5/8-11X2.25
W28-32	W26-32	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	1.941	2.375	.781	3/4-10	228	3/4-10X3.00
W28-40	W26-40	2.50	2.50	5.00	6.88	2.311	4.874	2.37	1.50	2.995	2.325	2.875	.906	7/8-9	232	7/8-9X3.00
W28-48	W26-48	3.00	3.00	6.00	8.50	2.811	6.000	2.96	2.00	3.615	2.902	3.500	1.190	1 1/8-7	237	1 1/8-7X4.00

CODE 62 BUTT WELD - SCHEDULE 160 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W30-8	W29-8	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.466	.840	.344	5/16-18	210	5/16-18X1.25
W30-12	W29-12	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.614	1.050	.406	3/8-16	214	3/8-16X1.50
W30-16	W29-16	1.00	1.00	2.56	3.19	1.093	2.250	1.61	.83	1.560	.817	1.315	.492	7/16-14	219	7/16-14X1.75
W30-20	W29-20	1.25	1.25	3.07	3.75	1.250	2.625	1.73	.98	1.750	1.162	1.660	.531	1/2-13	222	1/2-13X1.75
W30-24	W29-24	1.50	1.50	3.70	4.41	1.437	3.125	2.17	1.18	2.115	1.340	1.900	.656	5/8-11	225	5/8-11X2.25
W30-32	W29-32	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	1.689	2.375	.781	3/4-10	228	3/4-10X3.00
W30-40	W29-40	2.50	2.50	5.00	6.88	2.311	4.874	2.37	1.50	2.995	2.127	2.875	.906	7/8-9	232	7/8-9X3.00
W30-48	W29-48	3.00	3.00	6.00	8.50	2.811	6.000	2.96	2.00	3.615	2.626	3.500	1.190	1 1/8-7	237	1 1/8-7X4.00

CODE 62 BUTT WELD - SCHEDULE XXS PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W33-8	W32-8	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.254	.840	.344	5/16-18	210	5/16-18X1.25
W33-12	W32-12	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.436	1.050	.406	3/8-16	214	3/8-16X1.50
W33-16	W32-16	1.00	1.00	2.56	3.19	1.093	2.250	1.61	.83	1.560	.601	1.315	.492	7/16-14	219	7/16-14X1.75
W33-20	W32-20	1.25	1.25	3.07	3.75	1.250	2.625	1.73	.98	1.750	.898	1.660	.531	1/2-13	222	1/2-13X1.75
W33-24	W32-24	1.50	1.50	3.70	4.41	1.437	3.125	2.17	1.18	2.115	1.102	1.900	.656	5/8-11	225	5/8-11X2.25
W33-32	W32-32	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	1.505	2.375	.781	3/4-10	228	3/4-10X3.00
W33-40	W32-40	2.50	2.50	5.00	6.88	2.311	4.874	2.37	1.50	2.995	1.773	2.875	.906	7/8-9	232	7/8-9X3.00
W33-48	W32-48	3.00	3.00	6.00	8.50	2.811	6.000	2.96	2.00	3.615	2.302	3.500	1.190	1 1/8-7	237	1 1/8-7X4.00

Saddle Weld

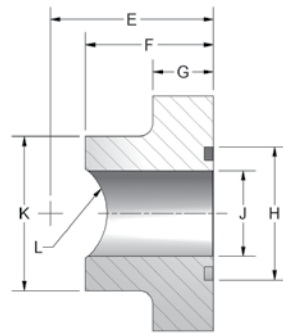
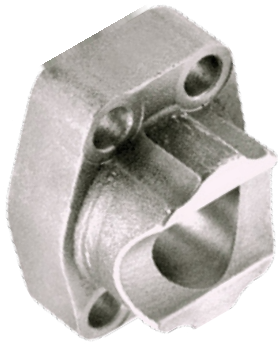


Figure 1

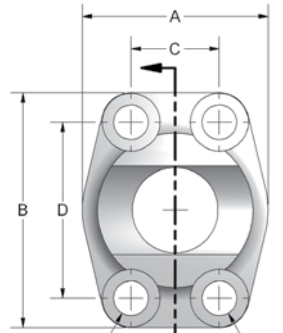


FIG. 1

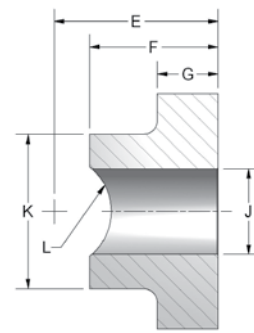


Figure 2

*No Spotface

CODE 61 SADDLE WELD - PIPE

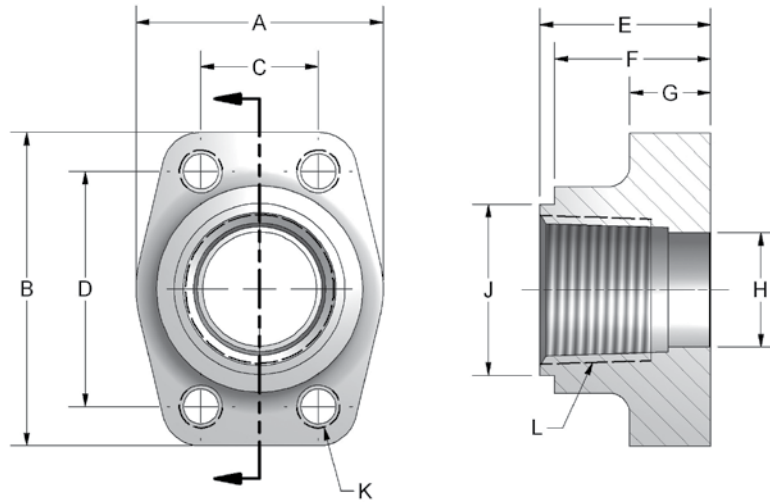
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N UNC-2B	MOUNTING HARDWARE	
																	O-RING	SHCS
W8-12-12	W7-12-12	.75	.75	1.97	2.56	.875	1.875	1.775	1.42	.71	1.250	.752	1.54	.532	.406	3/8-16	214	3/8-16X1.50
W8-16-16	W7-16-16	1.00	1.00	2.17	2.75	1.031	2.062	1.912	1.50	.71	1.560	1.002	1.81	.665	.406	3/8-16	219	3/8-16X1.50
W8-20-20	W7-20-20	1.25	1.25	2.68	3.12	1.188	2.312	2.146	1.61	.83	1.750	1.252	2.22	.837	.469	7/16-14	222	7/16-14X1.75
W8-24-24	W7-24-24	1.50	1.50	3.07	3.66	1.406	2.750	2.290	1.77	.98	2.115	1.502	2.50	.957	.531	1/2-13	225	1/2-13X1.75
W8-32-32	W7-32-32	2.00	2.00	3.54	4.00	1.688	3.062	2.340	1.77	.98	2.490	2.002	3.12	1.200	.531	1/2-13	228	1/2-13X1.75
W8-40-40	W7-40-40	2.50	2.50	4.09	4.49	2.000	3.500	2.660	1.97	.98	2.995	2.502	3.62	1.451	.531	1/2-13	232	1/2-13X1.75

CODE 61 SADDLE WELD - TUBE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N UNC-2B	MOUNTING HARDWARE	
																	O-RING	SHCS
W87-12-12	W69-12-12	.75	.75	1.97	2.56	.875	1.875	1.420	1.41	.71	1.250	.614	1.05	.382	.406	3/8-16	214	3/8-16X1.50
W87-16-12	W69-16-12	1.00	.75	1.97	2.56	.875	1.875	1.737	1.42	.71	1.250	.752	1.54	.507	.406	3/8-16	214	3/8-16X1.50
W87-16-16	W69-16-16	1.00	1.00	2.17	2.75	1.031	2.062	1.500	1.47	.71	1.560	.817	1.32	.507	.406	3/8-16	219	3/8-16X1.50
W87-20-16	W69-20-16	1.25	1.00	2.17	2.75	1.031	2.062	1.858	1.50	.71	1.560	1.002	1.81	.632	.406	3/8-16	219	3/8-16X1.50
W87-20-20	W69-20-20	1.25	1.25	2.68	3.12	1.188	2.312	1.665	1.61	.83	1.750	1.162	1.66	.632	.469	7/16-14	222	7/16-14X1.75
W87-24-20	W69-24-20	1.50	1.25	2.68	3.12	1.188	2.312	2.022	1.61	.83	1.750	1.252	2.22	.757	.469	7/16-14	222	7/16-14X1.75
W87-28-24	W69-28-24	1.75	1.50	3.07	3.66	1.406	2.750	2.198	1.77	.98	2.115	1.502	2.50	.882	.531	1/2-13	225	1/2-13X1.75
W87-32-32	W69-32-32	2.00	2.00	3.54	4.00	1.688	3.062	2.262	1.77	.98	2.490	1.689	2.38	1.007	.531	1/2-13	228	1/2-13X1.75
W87-36-32	W69-36-32	2.25	2.00	3.54	4.00	1.688	3.062	2.247	1.77	.98	2.490	2.002	3.12	1.132	.531	1/2-13	228	1/2-13X1.75

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

NPTF Tank Pilot



CODE 61 NPTF TANK PILOT													
PART NO.	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K UNC-2B	L NPTF
W22-12	.750	.750	1.97	2.56	.875	1.875	1.42	1.30	.71	.752	1.375	3/8-16	3/4-14
W22-16	1.00	1.00	2.17	2.75	1.031	2.062	1.50	1.37	.71	1.002	1.500	3/8-16	1-11.5
W22-20	1.25	1.25	2.68	3.12	1.188	2.312	1.61	1.49	.83	1.252	1.750	7/16-14	1 1/4-11.5
W22-24	1.50	1.50	3.07	3.66	1.406	2.750	1.77	1.64	.98	1.502	2.125	1/2-13	1 1/2-11.5
W22-32	2.00	2.00	3.54	4.00	1.688	3.062	1.77	1.65	.98	2.002	2.500	1/2-13	2-11.5
W22-40	2.50	2.50	4.09	4.49	2.000	3.500	1.97	1.85	.98	2.502	3.250	1/2-13	2 1/2-8
W22-48	3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.85	1.06	3.002	3.625	5/8-11	3-8
W22-56	3.50	3.50	5.35	5.98	2.750	4.750	1.89	1.77	1.06	3.504	4.125	5/8-11	3 1/2-8
W22-64	4.00	4.00	5.75	6.38	3.062	5.125	1.89	1.77	1.06	3.898	4.625	5/8-11	4-8

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

Elbow Block

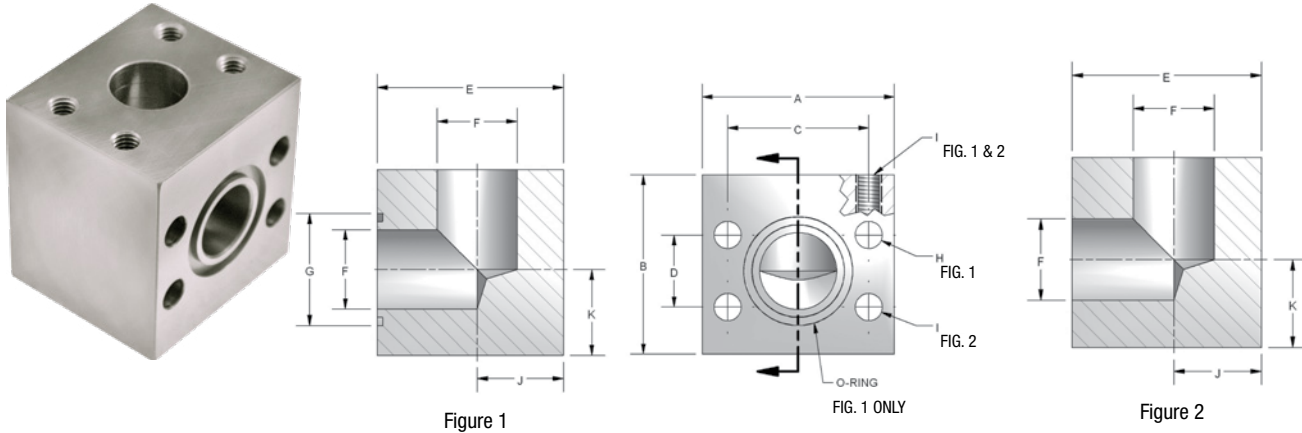


Figure 1

FIG. 1 ONLY

Figure 2

CODE 61 ELBOW BLOCK															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	I UNC-2B	J	K	MOUNTING HARDWARE	
														O-RING	SHCS
W14-12	W15-12	.75	2.62	2.47	1.875	.875	2.25	.75	1.250	.406	3/8-16	1.03	1.03	214	3/8-16X3.00
W14-16	W15-16	1.00	2.82	2.47	2.062	1.031	2.47	1.00	1.560	.406	3/8-16	1.16	1.09	219	3/8-16X3.25
W14-20	W15-20	1.25	3.19	2.97	2.312	1.188	2.97	1.25	1.750	.469	7/16-14	1.44	1.31	222	7/16-14X4.00
W14-24	W15-24	1.50	3.75	3.47	2.750	1.406	3.47	1.50	2.115	.531	1/2-13	1.62	1.62	225	1/2-13X4.50
W14-32	W15-32	2.00	4.00	3.97	3.062	1.688	3.97	2.00	2.490	.531	1/2-13	1.91	1.91	228	1/2-13X5.00

CODE 62 ELBOW BLOCK															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	I UNC-2B	J	K	MOUNTING HARDWARE	
														O-RING	SHCS
W12-12	W13-12	.75	2.82	2.47	2.000	.937	2.47	.750	1.250	.406	3/8-16	1.19	1.06	214	3/8-16X3.50
W12-16	W13-16	1.00	3.19	2.97	2.250	1.093	2.97	1.00	1.560	.469	7/16-14	1.38	1.38	219	7/16-14X4.00
W12-20	W13-20	1.25	3.75	3.47	2.625	1.250	3.47	1.25	1.750	.531	1/2-13	1.62	1.41	222	1/2-13X4.50
W12-24	W13-24	1.50	4.50	3.97	3.125	1.437	3.97	1.50	2.115	.656	5/8-11	1.88	1.75	225	5/8-11X5.00
W12-32	W13-32	2.00	5.25	4.97	3.812	1.75	4.97	2.00	2.490	.781	3/4-10	2.25	2.50	228	3/4-10X6.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Tee Junction Block

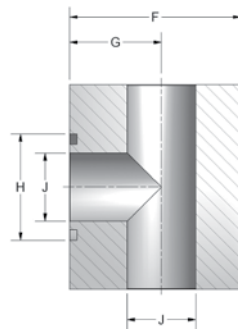


Figure 1

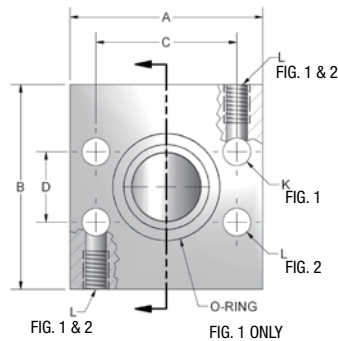


FIG. 1 ONLY

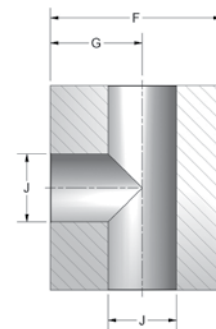


Figure 2

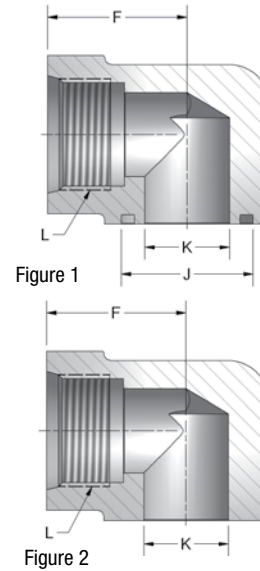
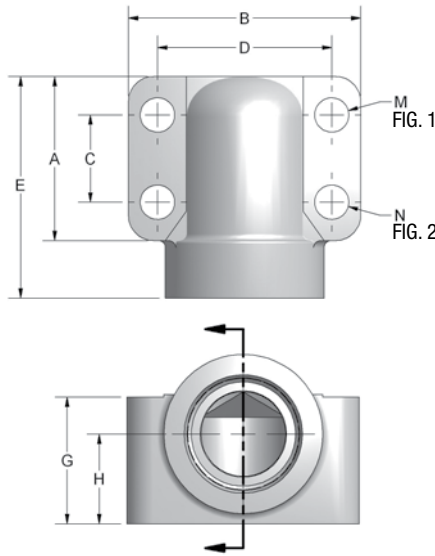
CODE 61 TEE JUNCTION BLOCK														
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
													O-RING	SHCS
W17-12	W16-12	.75	2.62	2.75	1.875	.875	2.25	1.22	1.250	.75	.406	3/8-16	214	3/8-16X3.00
W17-16	W16-16	1.00	2.82	2.97	2.062	1.031	2.50	1.34	1.560	1.00	.406	3/8-16	219	3/8-16X3.25
W17-20	W16-20	1.25	3.19	3.47	2.312	1.188	3.00	1.56	1.750	1.25	.469	7/16-14	222	7/16-14X4.00
W17-24	W16-24	1.50	3.75	3.97	2.750	1.406	3.50	1.88	2.115	1.50	.531	1/2-13	225	1/2-13X4.50
W17-32	W16-32	2.00	4.00	4.25	3.062	1.688	3.97	2.09	2.490	2.00	.531	1/2-13	228	1/2-13X5.00

CODE 62 TEE JUNCTION BLOCK														
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
													O-RING	SHCS
W19-12	W18-12	.75	2.81	2.97	2.00	.937	2.50	1.310	1.250	.750	.406	3/8-16	214	3/8-16X3.25
W19-16	W18-16	1.00	3.19	3.47	2.25	1.093	3.00	1.620	1.560	1.000	.492	7/16-14	219	7/16-14X4.00
W19-20	W18-20	1.25	3.75	3.97	2.625	1.250	3.50	1.880	1.750	1.250	.531	1/2-13	222	1/2-13X4.50
W19-24	W18-24	1.50	4.50	4.47	3.125	1.437	4.00	2.120	2.115	1.500	.656	5/8-11	225	5/8-11X5.00
W19-32	W18-32	2.00	5.25	4.97	3.812	1.750	4.97	2.750	2.490	1.940	.781	3/4-10	228	3/4-10X6.00

Mounting kit available on O-Ring grooved flanges by simply adding suffix letter 'U' to part number.



Threaded Elbow



CODE 61 ELBOW SAE STRAIGHT THREAD																	
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W164-12-12	W165-12-12	.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	1-1/16-12	.406	3/8-16	214	3/8-16X2.00
W164-16-16	W165-16-16	1.00	1.94	2.75	1.031	2.062	2.62	1.66	1.50	1.062	1.560	1.002	1-5/16-12	.406	3/8-16	219	3/8-16X2.25
W164-20-20	W165-20-20	1.25	2.19	3.12	1.188	2.312	3.00	1.91	1.81	1.188	1.750	1.252	1-5/8-12	.469	7/16-14	222	7/16-14X2.75
W164-24-24	W165-24-24	1.50	2.56	3.69	1.406	2.750	3.33	2.05	2.00	1.312	2.115	1.502	1-7/8-12	.531	1/2-13	225	1/2-13X3.00
W164-32-32	W165-32-32	2.00	3.06	4.33	1.688	3.062	3.81	2.28	2.50	1.656	1.490	2.002	2-1/2-12	.531	1/2-13	228	1/2-13X3.50

CODE 61 ELBOW NPTF THREAD																	
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W168-12-12	W170-12-12	.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	.75	.406	3/8-16	214	3/8-16X2.00
W168-16-16	W170-16-16	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	3/8-16	219	3/8-16X2.25
W168-20-20	W170-20-20	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	7/16-14	222	7/16-14X2.75
W168-24-24	W170-24-24	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	1/2-13	225	1/2-13X3.00
W168-32-32	W170-32-32	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	1/2-13	228	1/2-13X3.50

CODE 62 ELBOW SAE STRAIGHT THREAD																	
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W184-12-12	W185-12-12	.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	1-1/16-12	.406	3/8-16	214	3/8-16X2.25
W184-16-16	W185-16-16	1.00	2.19	3.12	1.093	2.250	3.00	1.91	1.81	1.188	1.560	1.002	1-5/16-12	.492	7/16-14	219	7/16-14X2.50
W184-20-20	W185-20-20	1.25	2.56	3.69	1.250	2.625	3.32	2.05	2.00	1.312	1.750	1.252	1-5/8-12	.531	1/2-13	222	1/2-13X3.00
W184-24-24	W185-24-24	1.50	3.06	4.33	1.437	3.125	3.81	2.28	2.50	1.656	2.115	1.502	1-7/8-12	.656	5/8-11	225	5/8-11X3.50

CODE 62 ELBOW NPTF THREAD																	
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W188-12-12	W180-12-12	.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	.75	.406	3/8-16	214	3/8-16X2.25
W188-16-16	W180-16-16	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	7/16-14	219	7/16-14X2.50
W188-20-20	W180-20-20	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	1/2-13	222	1/2-13X3.00
W188-24-24	W180-24-24	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	5/8-11	225	5/8-11X3.50

Mounting kit available on O-Ring grooved flanges by simply adding suffix letter 'U' to part number.

Socket Weld Pipe Elbow

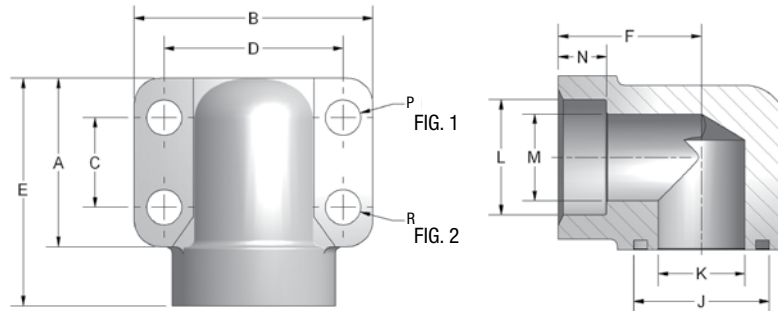


Figure 1

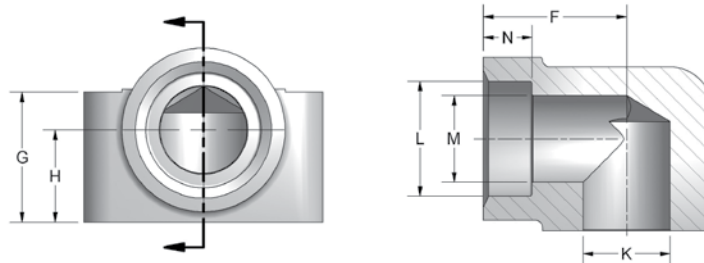


Figure 2

CODE 61 ELBOW SOCKET WELD - PIPE

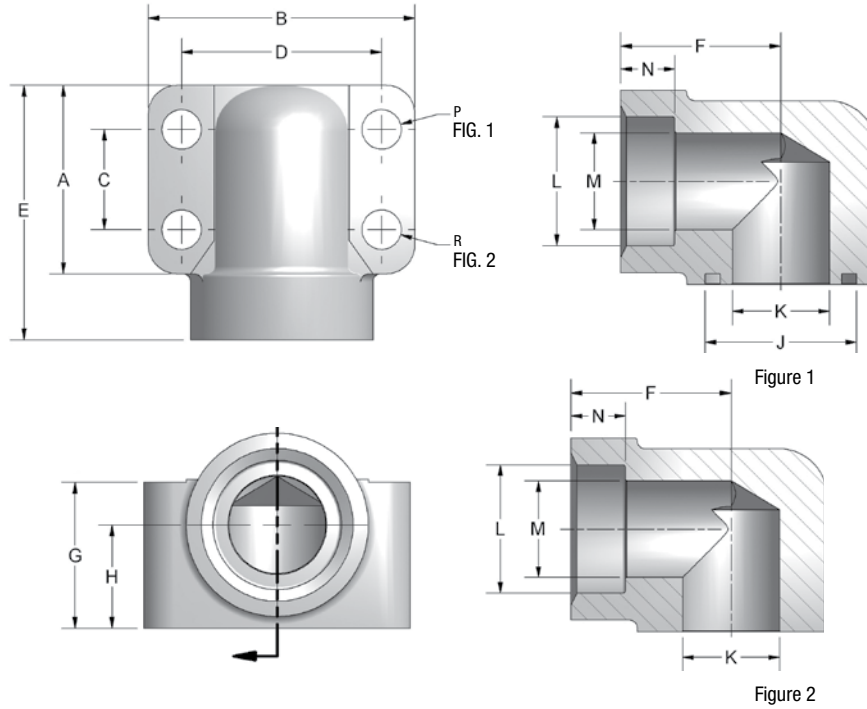
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R UNC-2B	MOUNTING HARDWARE	
																		O-RING	SHCS
W176-12-12	W169-12-12	.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	1.062	.75	.56	.406	3/8-16	214	3/8-16X2.00
W176-16-16	W169-16-16	1.00	1.94	2.75	1.031	2.062	2.62	1.66	1.50	1.062	1.560	1.002	1.328	1.00	.56	.406	3/8-16	219	3/8-16X2.25
W176-20-20	W169-20-20	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	7/16-14	222	7/16-14X2.75
W176-24-24	W169-24-24	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	1/2-13	225	1/2-13X3.00
W176-32-32	W169-32-32	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	1/2-13	228	1/2-13X3.50
W176-40-40	W169-40-40	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	1/2-13	232	1/2-13X5.00
W176-48-48	W169-48-48	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	5/8-11	237	5/8-11X6.00

CODE 62 ELBOW SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R UNC-2B	MOUNTING HARDWARE	
																		O-RING	SHCS
W186-12-12	W189-12-12	.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	1.062	.75	.56	.406	3/8-16	214	3/8-16X2.25
W186-16-16	W189-16-16	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	7/16-14	219	7/16-14X2.50
W186-20-20	W189-20-20	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	1/2-13	222	1/2-13X3.00
W186-24-24	W189-24-24	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	5/8-11	225	5/8-11X3.50
W186-32-32	W189-32-32	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	3/4-10	228	3/4-10X4.50

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Socket Weld Tube Elbow



CODE 61 ELBOW SOCKET WELD - TUBE																			
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R UNC-2B	MOUNTING HARDWARE	
																		O-RING	SHCS
W172-12-12	W177-12-12	.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	.752	.625	.312	.406	3/8-16	214	3/8-16X2.00
W172-16-12	W177-16-12	.75	1.69	2.56	.875	1.875	2.28	1.44	1.25	.875	1.250	.752	1.002	.750	.438	.406	3/8-16	214	3/8-16X2.00
W172-16-16	W177-16-16	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	3/8-16	219	3/8-16X2.25
W172-20-16	W177-20-16	1.00	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	3/8-16	219	3/8-16X2.25
W172-20-20	W177-20-20	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	7/16-14	222	7/16-14X2.75
W172-24-20	W177-24-20	1.25	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	7/16-14	222	7/16-14X2.75
W172-24-24	W177-24-24	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	1/2-13	225	1/2-13X3.00
W172-28-24	W177-28-24	1.50	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	1/2-13	225	1/2-13X3.00
W172-32-32	W177-32-32	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	1/2-13	228	1/2-13X3.50
W172-36-32	W177-36-32	2.00	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	1/2-13	228	1/2-13X3.50

CODE 62 ELBOW SOCKET WELD - TUBE																			
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R UNC-2B	MOUNTING HARDWARE	
																		O-RING	SHCS
W182-12-12	W187-12-12	.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	.752	.625	.56	.406	3/8-16	214	3/8-16X2.25
W182-16-12	W187-16-12	.75	1.94	2.75	.937	2.000	2.62	1.66	1.50	1.062	1.250	.752	1.002	.750	.62	.406	3/8-16	214	3/8-16X2.25
W182-16-16	W187-16-16	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	7/16-14	219	7/16-14X2.50
W182-20-16	W187-20-16	1.00	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	7/16-14	219	7/16-14X2.50
W182-20-20	W187-20-20	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	1/2-13	222	1/2-13X3.00
W182-24-20	W187-24-20	1.25	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	1/2-13	222	1/2-13X3.00
W182-24-24	W187-24-24	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	5/8-11	225	5/8-11X3.50
W182-28-24	W187-28-24	1.50	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	5/8-11	225	5/8-11X3.50

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

3000 Series Square Pattern

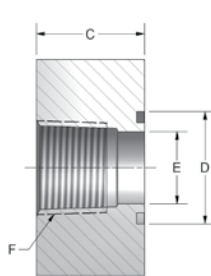


Figure 1

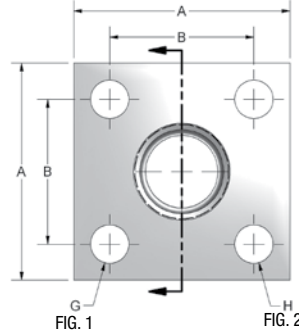


FIG. 1

FIG. 2

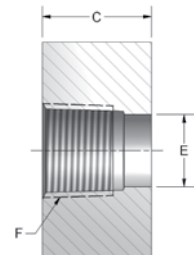


Figure 2

3000 SERIES SQUARE NPTF THREAD												
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H UNC-2B	MOUNTING HARDWARE	
											O-RING	SHCS
W65-12	W75-12	.75	2.25	1.438	1.25	1.250	.752	.75	.406	3/8-16	214	3/8-16X2.00
W65-16	W75-16	1.00	3.00	2.000	1.50	1.560	1.002	1.00	.531	1/2-13	219	1/2-13X2.25
W65-20	W75-20	1.25	3.00	2.000	1.50	1.750	1.252	1.25	.531	1/2-13	222	1/2-13X2.25
W65-24	W75-24	1.50	4.00	2.750	1.75	2.115	1.502	1.50	.656	5/8-11	225	5/8-11X2.75
W65-32	W75-32	2.00	4.00	2.750	1.75	2.490	2.002	2.00	.656	5/8-11	228	5/8-11X2.75
W65-40	W75-40*	2.50	5.50	3.750	2.25	2.995	2.502	2.50	.906	7/8-9	232	7/8-9X3.50*
W65-48	W75-48*	3.00	5.50	3.750	2.25	3.615	3.002	3.00	.906	7/8-9	237	7/8-9X3.50*

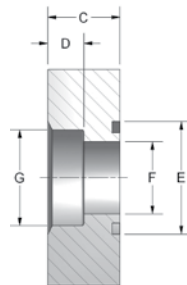


Figure 1

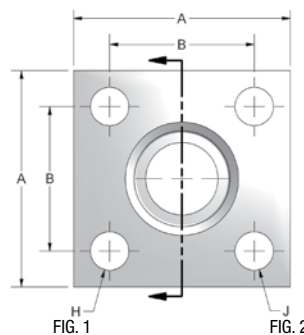


FIG. 1

FIG. 2

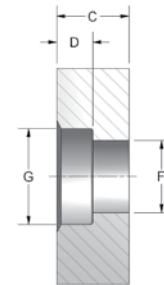


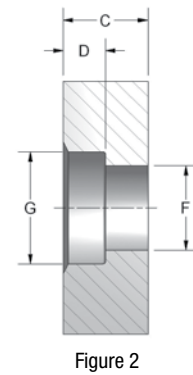
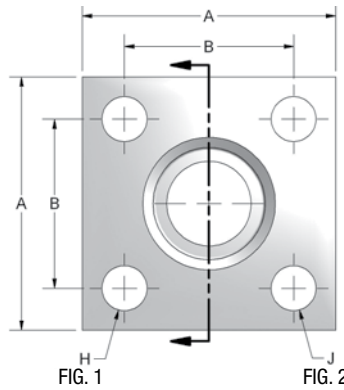
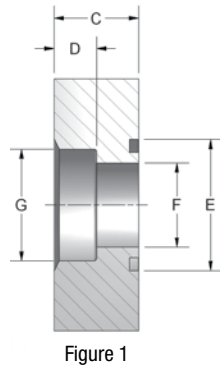
Figure 2

3000 SERIES SQUARE SOCKET WELD - PIPE													
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J UNC-2B	MOUNTING HARDWARE	
												O-RING	SHCS
W66-12	W76-12	.75	2.25	1.438	1.00	.50	1.250	.752	1.062	.406	3/8-16	214	3/8-16X1.75
W66-16	W76-16	1.00	3.00	2.000	1.00	.50	1.560	1.002	1.328	.531	1/2-13	219	1/2-13X1.75
W66-20	W76-20	1.25	3.00	2.000	1.00	.50	1.750	1.252	1.672	.531	1/2-13	222	1/2-13X1.75
W66-24	W76-24	1.50	4.00	2.750	1.25	.62	2.115	1.502	1.922	.656	5/8-11	225	5/8-11X2.25
W66-32	W76-32	2.00	4.00	2.750	1.25	.62	2.490	2.002	2.406	.656	5/8-11	228	5/8-11X2.25
W66-40	W76-40*	2.50	5.50	3.750	1.50	.75	2.995	2.502	2.906	.906	7/8-9	232	7/8-9X2.75*
W66-48	W76-48*	3.00	5.50	3.750	1.50	.75	3.615	3.002	3.547	.906	7/8-9	237	7/8-9X2.75*
W66-64	W76-64*	4.00	7.00	5.000	2.00	.75	4.625	3.880	4.578	1.060	1-8	347	1-8X3.50*

*HHCS provided on 7/8" size bolts and larger.

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

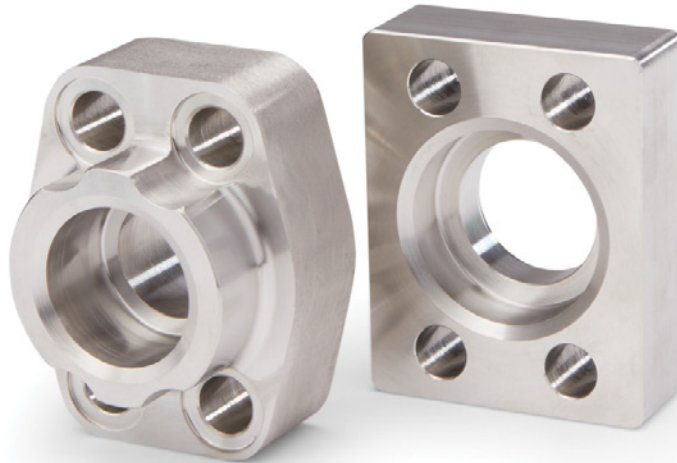
6000 Series Square Pattern



6000 SERIES SQUARE SOCKET WELD - PIPE													
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	A	B	C	D	E	F	G	H	J UNC-2B	MOUNTING HARDWARE	
												O-RING	HHCS
W56-40	W57-40	2.50	5.50	3.750	1.75	.75	2.995	2.12	2.911	.94	7/8-9	232	7/8-9X3.50
W56-48	W57-48	3.00	6.75	4.750	2.00	.75	3.615	2.62	3.540	1.06	1-8	236	1-8X4.00
W56-56	W57-56	3.50	8.00	5.500	2.40	1.002	3.990	3.00	4.045	1.31	1 1/4-7	342	1 1/4X5.00
W56-64	W57-64	4.00	8.50	6.000	2.40	1.002	4.490	3.44	4.550	1.31	1 1/4-7	346	1 1/4X5.00
W56-80	W57-80	5.00	10.00	7.250	2.90	1.002	5.365	4.31	5.625	1.56	1 1/2-6	353	1 1/2X6.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

FLANGES - STAINLESS STEEL



AFP SUPPLIED 18-8(304) STAINLESS STEEL FASTENER TORQUE REQUIREMENTS

CODE 61 SAE J518-1 / ISO 6162-1 BOLT PATTERN		
DASH SIZE	INCH SIZE	SOCKET AND HEX HEAD FASTENER TORQUE VALUE
		18-8 UNC (LB-FT)
-8	1/2"	9
-12	3/4"	16
-16	1"	16
-20	1 1/4"	26
-24	1 1/2"	40
-32	2"	40
-40	2 1/2"	40
-48	3"	79
-56	3 1/2"	79
-64	4"	79
-80	5"	79

CODE 62 SAE J518-2 / ISO 6162-2 BOLT PATTERN		
DASH SIZE	INCH SIZE	SOCKET AND HEX HEAD FASTENER TORQUE VALUE
		18-8 UNC (LB-FT)
-8	1/2"	9
-12	3/4"	16
-16	1"	26
-20	1 1/4"	40
-24	1 1/2"	79
-32	2"	140*

*-32 CODE 62 Hex Head torque value is 97 (lb-ft).

NOTE - All stainless steel fastener torque values were configured using regular grade Never-Seez® as lubricant. Use of another lubricant on fasteners can affect torque value. Consult factory for additional information.

* The use of stainless steel fasteners may reduce the maximum working pressure of the assembly.



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SAE J518 Split/Captive Flanges

For SAE Flanged Head Connection

CD 61 - CD 62	126
CD 61 - CD 62 Split Flange Adapters	127

SAE 4 Bolt Flanges

CD 61 - CD 62 Blanking	128
CD 61 - CD 62 NPTF	129
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CD 61 - CD 62 Flat Socket Weld Pipe	131
CD 61 - CD 62 Deep Socket Weld Pipe	132
CD 61 Butt Weld-Sched 40/Sched 80/Sched 160	133
CD 62 Butt Weld-Sched 80/Sched 160/Sched XXS	134
CD 61 - CD 62 Elbow Socket Weld Pipe	135
CD 61 - CD 62 Elbow Block	136
CD 61 - CD 62 Tee Junction Block	137

Square 4 Bolt Flanges

3000 Series Flat Socket Weld	138
3000 Series NPTF Thread	138

The standard grade of material for Anchor's stainless steel flanges is 316L. Other material grades are available upon request. In addition, material grades and flange dimensions may vary due to availability of raw material.

TEST POINT
ADAPTERS

INLINE
VALVES

BALL
VALVES

QUICK
COUPLINGS

WELD
COUPLINGS

SUCTION
AND RETURN

C/S
FLANGES

S/S
FLANGES

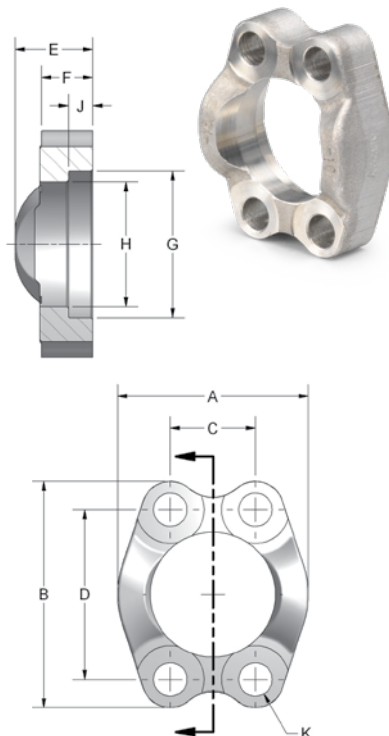
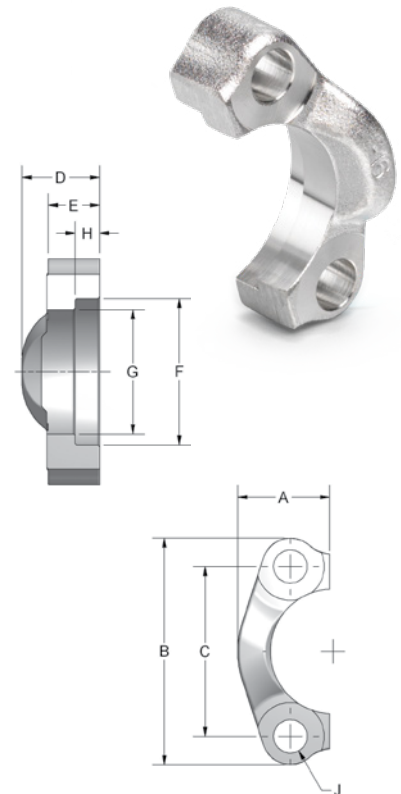
J518 Split & Captive Flange

CODE 61 SPLIT FLANGE													
*PART NO.	**KIT PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	MOUNTING HARDWARE	
												O-RING	HHCS
8SF-2-SS	8SFO-SS	.50	.86	2.12	1.500	.75	.50	1.219	.955	.245	.344	210	5/16-18X1.25
12SF-2-SS	12SFO-SS	.75	.98	2.56	1.875	.88	.56	1.531	1.265	.245	.406	214	3/8-16X1.25
16SF-2-SS	16SFO-SS	1.00	1.11	2.75	2.062	.94	.62	1.781	1.515	.295	.406	219	3/8-16X1.25
20SF-2-SS	20SFO-SS	1.25	1.39	3.12	2.312	.88	.56	2.031	1.720	.295	.469	222	7/16-14X1.50
24SF-2-SS	24SFO-SS	1.50	1.58	3.69	2.750	1.00	.62	2.406	2.000	.295	.531	225	1/2-13X1.50
32SF-2-SS	32SFO-SS	2.00	1.86	4.00	3.062	1.03	.62	2.844	2.470	.355	.531	228	1/2-13X1.50
40SF-2-SS	40SFO-SS	2.50	2.09	4.50	3.500	1.50	.75	3.344	2.950	.355	.531	232	1/2-13X1.75
48SF-2-SS	48SFO-SS	3.00	2.53	5.31	4.188	1.62	.88	4.031	3.580	.355	.656	237	5/8-11X1.75
56SF-2-SS	56SFO-SS	3.50	2.70	6.00	4.750	1.12	.88	4.531	4.030	.422	.656	241	5/8-11X2.00
64SF-2-SS	64SFO-SS	4.00	2.95	6.38	5.125	1.38	1.00	5.031	4.530	.422	.656	245	5/8-11X2.00

CODE 62 SPLIT FLANGE													
*PART NO.	**KIT PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	MOUNTING HARDWARE	
												O-RING	HHCS
8SFX-2-SS	8SFXO-SS	.50	.89	2.22	1.594	.88	.62	1.281	.970	.285	.344	210	5/16-18X1.25
12SFX-2-SS	12SFXO-SS	.75	1.14	2.81	2.000	1.12	.75	1.656	1.280	.325	.406	214	3/8-16X1.50
16SFX-2-SS	16SFXO-SS	1.00	1.33	3.19	2.250	1.31	.94	1.906	1.530	.355	.469	219	7/16-14X1.75
20SFX-2-SS	20SFXO-SS	1.25	1.48	3.75	2.625	1.50	1.06	2.156	1.750	.385	.531	222	1/2-13X1.75
24SFX-2-SS	24SFXO-SS	1.50	1.83	4.44	3.125	1.69	1.19	2.531	2.030	.475	.656	225	5/8-11X2.25
32SFX-2-SS	32SFXO-SS	2.00	2.20	5.25	3.812	2.06	1.44	3.156	2.660	.475	.781	228	3/4-10X2.75

*Anchor part # includes: (1) split flange half only

**Kit part # includes: (2) split flange halves, (4) hex head bolts with lock washers, and (1) Viton O-Ring



CODE 61 CAPTIVE FLANGE													
DRILLED PART NO.	TAPPED PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	K UNC-2B
8SPW-SS	8SFTW-SS	.50	1.81	2.12	.688	1.500	.75	.50	1.219	.955	.245	.344	5/16-18
12SPW-SS	12SFTW-SS	.75	2.06	2.56	.875	1.875	.88	.56	1.531	1.265	.245	.406	3/8-16
16SPW-SS	16SFTW-SS	1.00	2.31	2.75	1.031	2.062	.94	.62	1.781	1.515	.295	.406	3/8-16
20SPW-SS	20SFTW-SS	1.25	2.88	3.12	1.188	2.312	.88	.56	2.031	1.720	.295	.469	7/16-14
24SPW-SS	24SFTW-SS	1.50	3.25	3.69	1.406	2.750	1.00	.62	2.406	2.000	.295	.531	1/2-13
32SPW-SS	32SFTW-SS	2.00	3.81	4.00	1.688	3.062	1.03	.62	2.844	2.470	.355	.531	1/2-13
40SPW-SS	40SFTW-SS	2.50	4.28	4.50	2.000	3.500	1.50	.75	3.344	2.950	.355	.531	1/2-13
48SPW-SS	48SFTW-SS	3.00	5.16	5.31	2.438	4.188	1.62	.88	4.031	3.580	.355	.656	5/8-11
56SPW-SS	56SFTW-SS	3.50	5.50	6.00	2.750	4.750	1.12	.88	4.531	4.030	.422	.656	5/8-11
64SPW-SS	64SFTW-SS	4.00	6.00	6.38	3.062	5.125	1.38	1.00	5.031	4.530	.422	.656	5/8-11

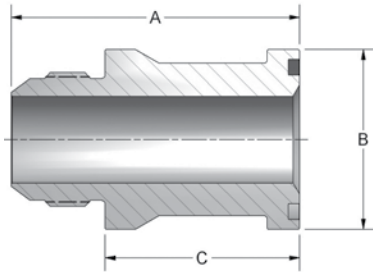
CODE 62 CAPTIVE FLANGE													
DRILLED PART NO.	TAPPED PART NO.	FLANGE SIZE	A	B	C	D	E	F	G	H	J	K	K UNC-2B
8SFXW-SS	8SFXTW-SS	.50	1.86	2.22	.718	1.594	.88	.62	1.281	.970	.285	.344	5/16-18
12SFXW-SS	12SFXTW-SS	.75	2.38	2.81	.937	2.000	1.12	.75	1.656	1.280	.325	.406	3/8-16
16SFXW-SS	16SFXTW-SS	1.00	2.75	3.19	1.093	2.250	1.31	.94	1.906	1.530	.355	.469	7/16-14
20SFXW-SS	20SFXTW-SS	1.25	3.06	3.75	1.250	2.625	1.50	1.06	2.156	1.750	.385	.531	1/2-13
24SFXW-SS	24SFXTW-SS	1.50	3.75	4.44	1.437	3.125	1.69	1.19	2.531	2.030	.475	.656	5/8-11
32SFXW-SS	32SFXTW-SS	2.00	4.50	5.25	1.750	3.812	2.06	1.44	3.156	2.660	.475	.781	3/4-10



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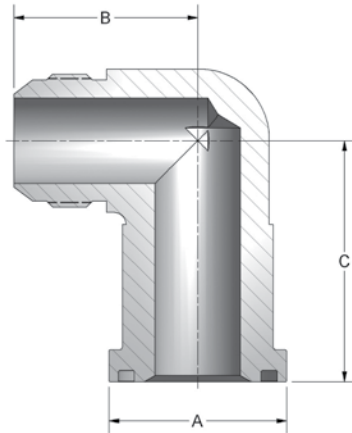
Split Flange Adapters



CODE 61 JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
300-8-8-SS	1/2	1/2	2.60	1.188	1.94	3/4-16
300-12-12-SS	3/4	3/4	2.75	1.500	1.89	1 1/16-12
300-16-16-SS	1	1	2.80	1.750	1.89	1 5/16-12
300-20-20-SS	1 1/4	1 1/4	2.80	2.000	1.84	1 5/8-12
300-24-24-SS	1 1/2	1 1/2	3.50	2.375	2.42	1 7/8-12

CODE 62 JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
600-12-12-SS	3/4	3/4	2.75	1.625	1.89	1 1/16-12
600-16-16-SS	1	1	2.80	1.875	1.89	1 5/16-12
600-20-20-SS	1 1/4	1 1/4	3.05	2.125	2.09	1 5/8-12
600-24-24-SS	1 1/2	1 1/2	3.50	2.500	2.42	1 7/8-12

For additional jump sizes, please consult factory.

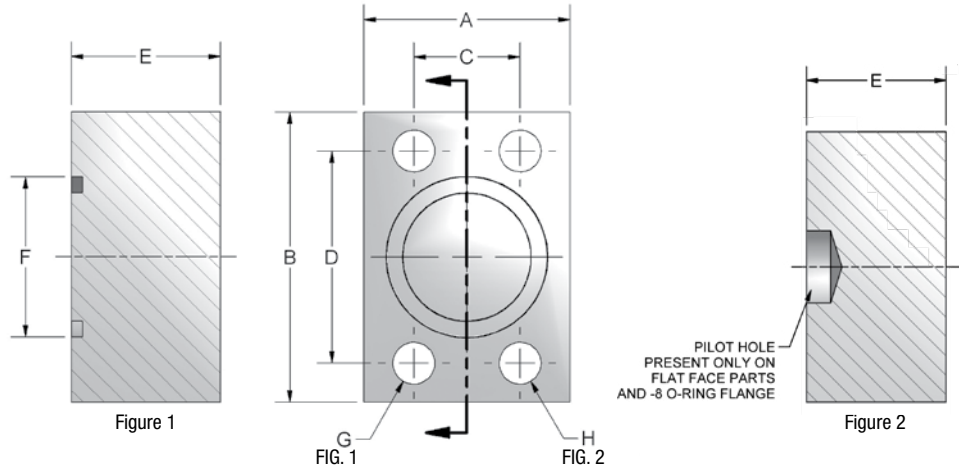


CODE 61 90 DEGREE JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
390-12-12-SS	3/4	3/4	1.500	1.66	2.13	1 1/16-12
390-16-16-SS	1	1	1.750	1.81	2.37	1 5/16-12
390-20-20-SS	1 1/4	1 1/4	2.000	2.06	2.62	1 5/8-12
390-24-24-SS	1 1/2	1 1/2	2.375	2.33	3.15	1 7/8-12

CODE 62 90 DEGREE JIC THREAD						
PART NO.	TUBE O.D.	FLANGE SIZE	A	B	C	THREAD
690-12-12-SS	3/4	3/4	1.625	1.66	2.13	1 1/16-12
690-16-16-SS	1	1	1.875	1.81	2.37	1 5/16-12
690-20-20-SS	1 1/4	1 1/4	2.125	2.06	2.76	1 5/8-12
690-24-24-SS	1 1/2	1 1/2	2.500	2.33	3.15	1 7/8-12

For additional jump sizes, please consult factory.

Blanking



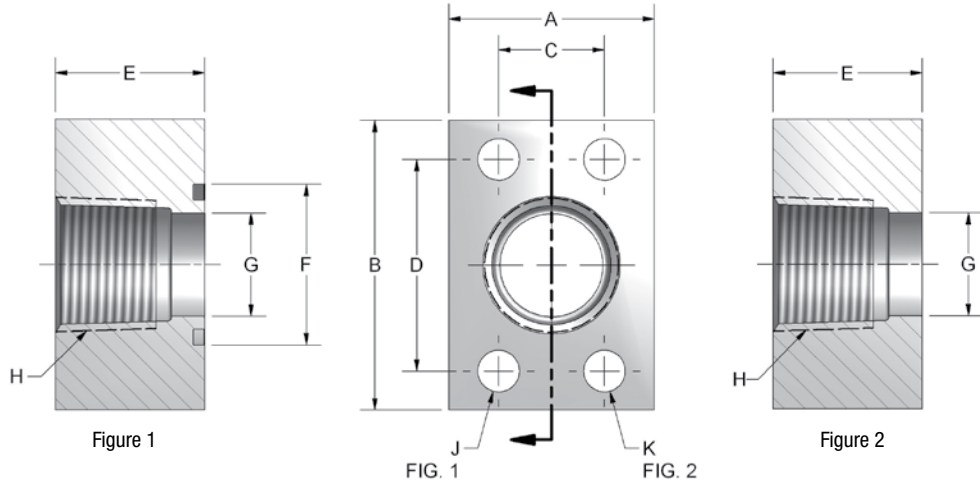
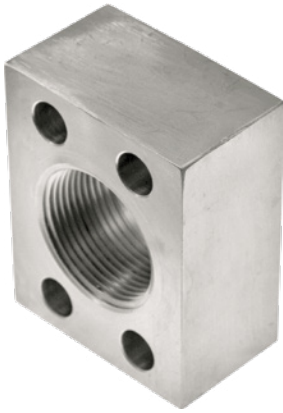
CODE 61 BLANKING												
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H UNC-2B	MOUNTING HARDWARE	
											O-RING	SHCS
W36-8-8-SS	W37-8-8-SS	.50	1.50	2.12	.688	1.50	1.20	1.000	.344	5/16-18	210	5/16-18X2.00
W36-12-12-SS	W37-12-12-SS	.75	1.75	2.62	.875	1.875	1.20	1.250	.406	3/8-16	214	3/8-16X2.00
W36-16-16-SS	W37-16-16-SS	1.00	2.00	2.82	1.031	2.063	1.45	1.560	.406	3/8-16	219	3/8-16X2.25
W36-20-20-SS	W37-20-20-SS	1.25	2.50	3.19	1.188	2.313	1.45	1.750	.469	7/16-14	222	7/16-14X2.25
W36-24-24-SS	W37-24-24-SS	1.50	2.75	3.75	1.406	2.750	1.70	2.115	.531	1/2-13	225	1/2-13X2.50
W36-32-32-SS	W37-32-32-SS	2.00	3.25	4.00	1.688	3.063	1.70	2.490	.531	1/2-13	228	1/2-13X2.50
W36-40-40-SS	W37-40-40-SS	2.50	4.00	4.50	2.000	3.500	1.95	2.995	.531	1/2-13	232	1/2-13X2.75
W36-48-48-SS	W37-48-48-SS	3.00	4.50	5.31	2.438	4.188	2.20	3.615	.656	5/8-11	237	5/8-11X3.50
W36-56-56-SS	W37-56-56-SS	3.50	5.00	6.00	2.750	4.750	1.45	4.095	.656	5/8-11	241	5/8-11X2.75
W36-64-64-SS	W37-64-64-SS	4.00	5.50	6.38	3.062	5.125	1.45	4.595	.656	5/8-11	245	5/8-11X2.75

CODE 62 BLANKING												
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H UNC-2B	MOUNTING HARDWARE	
											O-RING	SHCS
W38-8-8-SS	W39-8-8-SS	.50	1.75	2.22	.718	1.594	.94	1.000	.344	5/16-18	210	5/16-18X1.50
W38-12-12-SS	W39-12-12-SS	.75	2.00	2.81	.937	2.000	1.19	1.250	.406	3/8-16	214	3/8-16X2.00
W38-16-16-SS	W39-16-16-SS	1.00	2.25	3.19	1.093	2.250	1.44	1.560	.492	7/16-14	219	7/16-14X2.25
W38-20-20-SS	W39-20-20-SS	1.25	2.75	3.75	1.250	2.625	1.44	1.750	.531	1/2-13	222	1/2-13X2.50
W38-24-24-SS	W39-24-24-SS	1.50	3.25	4.50	1.437	3.125	1.69	2.115	.656	5/8-11	225	5/8-11X2.75
W38-32-32-SS	W39-32-32-SS	2.00	4.00	5.25	1.750	3.812	1.69	2.490	.781	3/4-10	228	3/4-10X3.00
W38-40-40-SS	W39-40-40-SS	2.50	5.00	6.88	2.311	4.874	1.94	2.995	.906	7/8-9	232	7/8-9X3.75
W38-48-48-SS	W39-48-48-SS	3.00	6.00	8.50	2.811	6.000	2.44	3.615	1.190	1 1/8-7	237	1 1/8-7X4.50

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



NPTF Thread

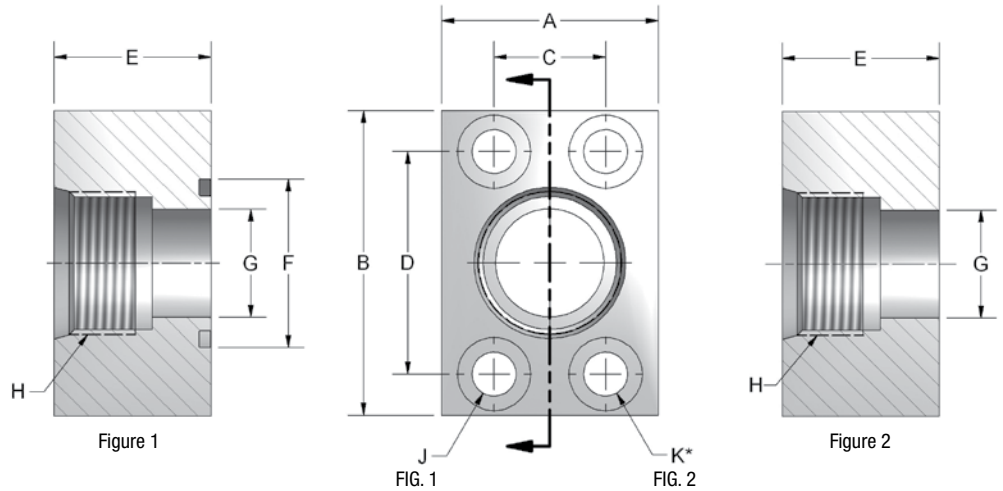


CODE 61 NPTF THREAD															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K UNC-2B	MOUNTING HARDWARE	
														O-RING	SHCS
W43-8-8-SS	W104-8-8-SS	.50	.50	1.50	2.12	.688	1.500	1.20	1.000	.502	.50	.344	5/16-18	210	5-16-18X1.75
W43-12-12-SS	W104-12-12-SS	.75	.75	1.75	2.62	.875	1.875	1.20	1.250	.752	.75	.406	3/8-16	214	3/8-16X2.00
W43-16-16-SS	W104-16-16-SS	1.00	1.00	2.00	2.82	1.031	2.062	1.45	1.560	1.002	1.00	.406	3/8-16	219	3/8-16X2.25
W43-20-20-SS	W104-20-20-SS	1.25	1.25	2.50	3.19	1.188	2.312	1.45	1.750	1.252	1.25	.469	7/16-14	222	7/16-14X2.25
W43-24-24-SS	W104-24-24-SS	1.50	1.50	2.75	3.75	1.406	2.750	1.70	2.115	1.502	1.50	.531	1/2-13	225	1/2-13X2.50
W43-32-32-SS	W104-32-32-SS	2.00	2.00	3.25	4.00	1.688	3.062	1.70	2.490	2.002	2.00	.531	1/2-13	228	1/2-13X2.50
W43-40-40-SS	W104-40-40-SS	2.50	2.50	4.00	4.50	2.000	3.500	1.95	2.995	2.502	2.50	.531	1/2-13	232	1/2-13X2.75
W43-48-48-SS	W104-48-48-SS	3.00	3.00	4.50	5.31	2.438	4.188	2.20	3.615	3.002	3.00	.656	5/8-11	237	5/8-11X3.00

CODE 62 NPTF THREAD															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K UNC-2B	MOUNTING HARDWARE	
														O-RING	SHCS
W44-8-8-SS	W45-8-8-SS	.50	.50	1.75	2.22	.718	1.594	.95	1.000	.502	.50	.344	5/16-18	210	5/16-18X1.50
W44-12-12-SS	W45-12-12-SS	.75	.75	2.00	2.81	.937	2.000	1.20	1.250	.752	.75	.406	3/8-16	214	3/8-16X2.00
W44-16-16-SS	W45-16-16-SS	1.00	1.00	2.25	3.19	1.093	2.250	1.45	1.560	1.002	1.00	.492	7/16-14	219	7/16-14X2.50
W44-20-20-SS	W45-20-20-SS	1.25	1.25	2.75	3.75	1.250	2.625	1.45	1.750	1.252	1.25	.531	1/2-13	222	1/2-13X2.25
W44-24-24-SS	W45-24-24-SS	1.50	1.50	3.25	4.50	1.437	3.125	1.70	2.115	1.502	1.50	.656	5/8-11	225	5/8-11X2.75
W44-32-32-SS	W45-32-32-SS	2.00	2.00	4.00	5.25	1.750	3.812	1.70	2.490	2.002	2.00	.781	3/4-10	228	3/4-10X3.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

SAE Thread



CODE 61 SAE STRAIGHT THREAD															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K UNC-2B	MOUNTING HARDWARE	
														O-RING	SHCS
W46-8-8-SS	W106-8-8-SS	.50	.50	1.50	2.12	.688	1.500	1.20	1.000	.502	3/4-16	.344	5/16-18	210	5-16-18X1.25
W46-12-12-SS	W106-12-12-SS	.75	.75	1.75	2.62	.875	1.875	1.20	1.250	.752	1 1/16-12	.406	3/8-16	214	3/8-16X1.50
W46-16-16-SS	W106-16-16-SS	1.00	1.00	2.00	2.82	1.031	2.062	1.45	1.560	1.002	1 5/16-12	.406	3/8-16	219	3/8-16X1.50
W46-20-20-SS	W106-20-20-SS	1.25	1.25	2.50	3.19	1.188	2.312	1.45	1.750	1.252	1 5/8-12	.469	7/16-14	222	7/16-14X1.75
W46-24-24-SS	W106-24-24-SS	1.50	1.50	2.75	3.75	1.406	2.750	1.70	2.115	1.502	1 7/8-12	.531	1/2-13	225	1/2-13X2.00
*W46-32-32-SS	W106-32-32-SS	2.00	2.00	3.25	4.00	1.688	3.062	1.70	2.490	2.002	2 1/2-12	.531	1/2-13	228	1/2-13X2.00
**W46-40-40-SS	W106-40-40-SS	2.50	2.50	4.00	4.50	2.00	3.50	1.95	3.000	2.500	3-12	.530	1/2-13	232	1/2-13X2.25
**W46-48-48-SS	W106-48-48-SS	3.00	3.00	4.50	5.31	2.44	4.19	2.20	3.62	3.000	3 1/2-12	.660	5/8-11	237	5/8-11X2.25
**W46-64-64-SS	W106-64-64-SS	4.00	4.00	5.50	6.38	3.06	5.13	1.45	4.60	4.000	4 1/2-12	.660	5/8-11	245	5/8-11X1.50

*1000 PSI max for W46-32-32-SS

**Consult Factory For Working Pressure

CODE 62 SAE STRAIGHT THREAD															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	TUBE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K UNC-2B	MOUNTING HARDWARE	
														O-RING	SHCS
W48-8-8-SS	W49-8-8-SS	.50	.50	1.75	2.22	.718	1.594	.95	1.000	.502	3/4-16	.344	5/16-18	210	5/16-18X1.25
W48-12-12-SS	W49-12-12-SS	.75	.75	2.00	2.81	.937	2.000	1.20	1.250	.752	1 1/16-12	.406	3/8-16	214	3/8-16X1.50
W48-16-16-SS	W49-16-16-SS	1.00	1.00	2.25	3.19	1.093	2.250	1.45	1.560	1.002	1 5/16-12	.492	7/16-14	219	7/16-14X1.75
W48-20-20-SS	W49-20-20-SS	1.25	1.25	2.75	3.75	1.250	2.625	1.45	1.750	1.252	1 5/8-12	.531	1/2-13	222	1/2-13X1.50
W48-24-24-SS	W49-24-24-SS	1.50	1.50	3.25	4.50	1.437	3.125	1.70	2.115	1.502	1 7/8-12	.656	5/8-11	225	5/8-11X2.00
W48-32-32-SS	W49-32-32-SS	2.00	2.00	4.00	5.25	1.750	3.812	1.70	2.490	2.002	2 1/2-12	.781	3/4-10	228	3/4-10X2.00

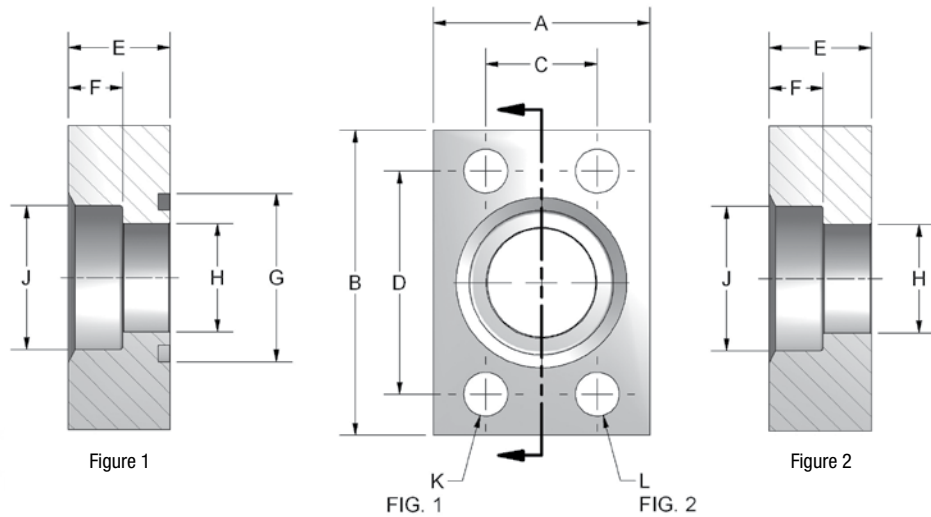
Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



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Flat Socket Weld Pipe



CODE 61 FLAT SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W4-8-8-SS	W61-8-8-SS	.50	.50	1.50	2.12	.688	1.500	.69	.38	1.000	.502	.860	.344	5/16-18	210	5/16-18X1.25
W4-12-12-SS	W61-12-12-SS	.75	.75	1.75	2.62	.875	1.875	.94	.50	1.250	.752	1.070	.406	3/8-16	214	3/8-16X1.75
W4-16-16-SS	W61-16-16-SS	1.00	1.00	2.00	2.82	1.031	2.062	.94	.50	1.560	1.002	1.335	.406	3/8-16	219	3/8-16X1.75
W4-20-20-SS	W61-20-20-SS	1.25	1.25	2.50	3.19	1.188	2.312	.94	.50	1.750	1.252	1.680	.469	7/16-14	222	7/16-14X1.75
W4-24-24-SS	W61-24-24-SS	1.50	1.50	2.75	3.75	1.406	2.750	1.19	.50	2.115	1.502	1.920	.531	1/2-13	225	1/2-13X2.25
W4-32-32-SS	W61-32-32-SS	2.00	2.00	3.25	4.00	1.688	3.062	1.44	.62	2.490	2.002	2.411	.531	1/2-13	228	1/2-13X2.50
W4-40-40-SS	W61-40-40-SS	2.50	2.50	4.00	4.50	2.000	3.500	1.69	.75	2.995	2.502	2.911	.531	1/2-13	232	1/2-13X2.75
W4-48-48-SS	W61-48-48-SS	3.00	3.00	4.50	5.31	2.438	4.188	2.12	1.24	3.615	3.002	3.540	.656	5/8-11	237	5/8-11X3.50

CODE 62 FLAT SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W59-8-8-SS	W60-8-8-SS	.50	.50	1.75	2.22	.718	1.594	.940	.50	1.000	.502	.860	.344	5/16-18	210	5/16-18X1.50
W59-12-12-SS	W60-12-12-SS	.75	.75	2.00	2.81	.937	2.000	.940	.50	1.250	.752	1.070	.406	3/8-16	214	3/8-16X1.75
W59-16-16-SS	W60-16-16-SS	1.00	1.00	2.25	3.19	1.093	2.250	.940	.50	1.560	1.002	1.335	.492	7/16-14	219	7/16-14X1.75
W59-20-20-SS	W60-20-20-SS	1.25	1.25	2.75	3.75	1.250	2.625	1.19	.50	1.750	1.252	1.672	.531	1/2-13	222	1/2-13X2.25
W59-24-24-SS	W60-24-24-SS	1.50	1.50	3.25	4.50	1.437	3.125	1.44	.50	2.115	1.502	1.920	.656	5/8-11	225	5/8-11X2.75
W59-32-32-SS	W60-32-32-SS	2.00	2.00	4.00	5.25	1.750	3.812	1.69	.62	2.490	2.002	2.411	.781	3/4-10	228	3/4-10X3.00
W59-40-40-SS	W60-40-40-SS	2.50	2.50	5.00	6.88	2.311	4.874	1.94	.62	2.995	2.502	2.911	.906	7/8-9	232	7/8-9X3.50
W59-48-48-SS	W60-48-48-SS	3.00	3.00	6.00	8.50	2.811	6.000	2.44	.62	3.615	3.002	3.540	1.190	1-1/8-7	237	1-1/8-7X4.50

CODE 61 FLAT SOCKET WELD - PIPE - ALL SIZES 500 PSI

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W72-48-48-SS	W91-48-48-SS	3.00	3.00	4.50	5.31	2.438	4.188	1.38	1.13	3.615	3.002	3.540	.656	5/8-11	237	5/8-11X2.50
W72-56-56-SS	W91-56-56-SS	3.50	3.50	5.00	6.00	2.750	4.750	1.44	1.19	4.095	3.502	4.054	.656	5/8-11	241	5/8-11X2.50
W72-64-64-SS	W91-64-64-SS	4.00	4.00	5.50	6.38	3.062	5.125	1.450	1.20	4.595	4.002	4.550	.656	5/8-11	245	5/8-11X2.50

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Deep Socket Weld Pipe

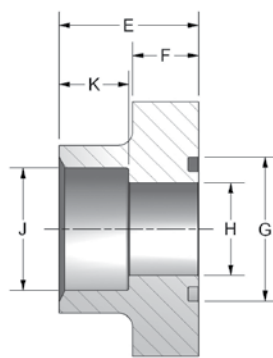


Figure 1

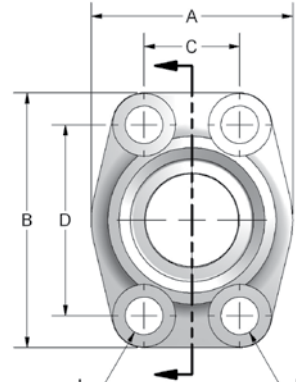


FIG. 1

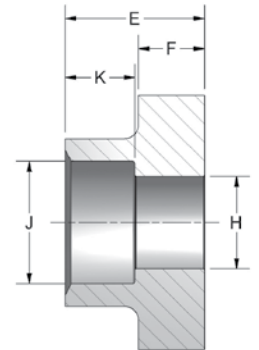


Figure 2

CODE 61 DEEP SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W31-8-8-SS	W3-8-8-SS	.50	.50	1.81	2.13	.688	1.500	1.42	.63	1.000	.502	.855	.75	.344	5/16-18	210	5/16-18X1.25
W31-12-12-SS	W3-12-12-SS	.75	.75	1.97	2.56	.875	1.875	1.42	.71	1.250	.752	1.062	.75	.406	3/8-16	214	3/8-16X1.50
W31-16-16-SS	W3-16-16-SS	1.00	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.560	1.002	1.328	.75	.406	3/8-16	219	3/8-16X1.50
W31-20-20-SS	W3-20-20-SS	1.25	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.750	1.252	1.672	.87	.469	7/16-14	222	7/16-14X1.75
W31-24-24-SS	W3-24-24-SS	1.50	1.50	3.07	3.66	1.406	2.750	1.77	.98	2.115	1.502	1.922	.94	.531	1/2-13	225	1/2-13X1.75
W31-32-32-SS	W3-32-32-SS	2.00	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.490	2.002	2.406	1.02	.531	1/2-13	228	1/2-13X1.75
W31-40-40-SS	W3-40-40-SS	2.50	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.995	2.502	2.908	1.18	.531	1/2-13	232	1/2-13X1.75
W31-48-48-SS	W3-48-48-SS	3.00	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.615	3.002	3.547	1.34	.656	5/8-11	237	5/8-11X2.00

CODE 62 DEEP SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W81-8-8-SS	W80-8-8-SS	.50	.50	1.81	2.21	.718	1.594	1.42	.63	1.000	.502	.855	.75	.344	5/16-18	210	5/16-18X1.25
W81-12-12-SS	W80-12-12-SS	.75	.75	2.17	2.80	.937	2.000	1.38	.83	1.250	.752	1.062	.87	.406	3/8-16	214	3/8-16X1.50
W81-16-16-SS	W80-16-16-SS	1.00	1.00	2.56	3.19	1.093	2.250	1.65	.98	1.560	1.002	1.328	.87	.492	7/16-14	219	7/16-14X1.75
W81-20-20-SS	W80-20-20-SS	1.25	1.25	3.07	3.75	1.250	2.625	1.77	1.06	1.750	1.252	1.672	.98	.531	1/2-13	222	1/2-13X1.75
W81-24-24-SS	W80-24-24-SS	1.50	1.50	3.70	4.41	1.437	3.125	1.97	1.18	2.115	1.502	1.922	1.10	.656	5/8-11	225	5/8-11X2.25
W81-32-32-SS	W80-32-32-SS	2.00	2.00	4.50	5.28	1.750	3.812	2.56	1.46	2.490	2.002	2.406	.94	.781	3/4-10	228	3/4-10X2.75

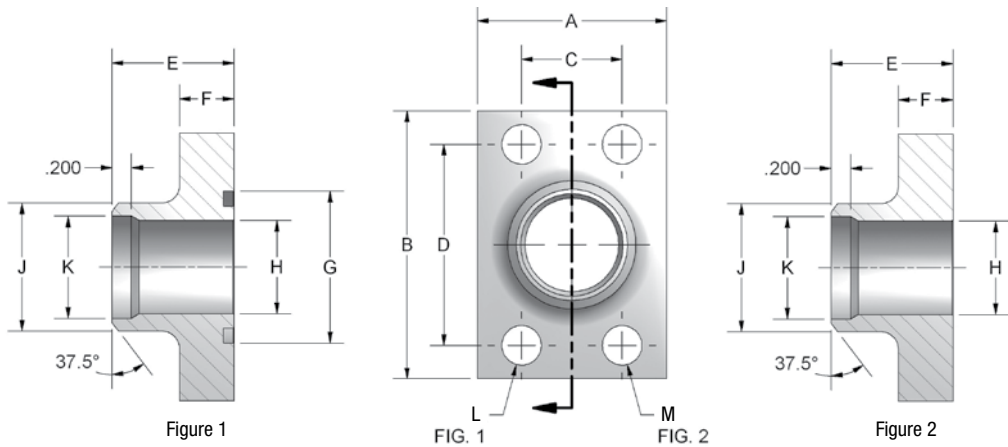
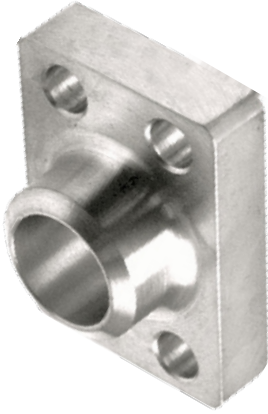
Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



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Butt Weld Pipe



CODE 61 BUTT WELD - SCHEDULE 40 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W35-8-SS	W34-8-SS	.50	.50	1.47	2.09	.688	1.500	1.06	.50	1.000	.548	.840	.624	.344	5/16-18	210	5/16-18X1.25
W35-12-SS	W34-12-SS	.75	.75	1.69	2.56	.875	1.875	1.06	.50	1.250	.744	1.050	.826	.406	3/8-16	214	3/8-16X1.25
W35-16-SS	W34-16-SS	1.00	1.00	1.94	2.75	1.031	2.062	1.25	.56	1.560	.959	1.315	1.051	.406	3/8-16	219	3/8-16X1.25
W35-20-SS	W34-20-SS	1.25	1.25	2.19	3.12	1.188	2.312	1.44	.62	1.750	1.280	1.660	1.382	.469	7/16-14	222	7/16-14X1.50
W35-24-SS	W34-24-SS	1.50	1.50	2.56	3.69	1.406	2.750	1.75	.81	2.115	1.502	1.900	1.612	.531	1/2-13	225	1/2-13X1.75
W35-32-SS	W34-32-SS	2.00	2.00	3.06	4.00	1.688	3.062	2.00	1.06	2.490	1.941	2.375	2.069	.531	1/2-13	228	1/2-13X2.00
W35-40-SS	W34-40-SS	2.50	2.50	3.56	4.50	2.000	3.500	2.31	1.12	2.995	2.325	2.875	2.471	.531	1/2-13	232	1/2-13X2.00
W35-48-SS	W34-48-SS	3.00	3.00	4.19	5.31	2.438	4.188	2.75	1.62	3.615	2.902	3.500	3.070	.656	5/8-11	237	5/8-11X2.75
W35-56-SS	W34-56-SS	3.50	3.50	5.00	6.00	2.750	4.750	1.50	1.00	4.095	3.366	4.000	3.550	.656	5/8-11	241	5/8-11X2.00
W35-64-SS	W34-64-SS	4.00	4.00	5.50	6.38	3.062	5.125	1.50	1.00	4.595	3.828	4.500	4.028	.656	5/8-11	245	5/8-11X2.00
W35-80-SS	W34-80-SS	5.00	5.00	7.00	7.25	3.625	6.000	2.00	1.25	5.595	4.81	5.62	5.078	.660	5/8-11	253	5/8-11X2.50

CODE 61 BUTT WELD - SCHEDULE 80 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W24-8-SS	W23-8-SS	.50	.50	1.50	2.12	.688	1.500	1.06	.50	1.000	.546	.840	SCHEDULE 40 ONLY	.344	5/16-18	210	5/16-18X1.25
W24-12-SS	W23-12-SS	.75	.75	1.69	2.56	.875	1.875	1.06	.50	1.250	.752	1.050		.406	3/8-16	214	3/8-16X1.25
W24-16-SS	W23-16-SS	1.00	1.00	1.94	2.75	1.031	2.062	1.25	.56	1.560	.959	1.315		.406	3/8-16	219	3/8-16X1.25
W24-20-SS	W23-20-SS	1.25	1.25	2.19	3.12	1.188	2.312	1.44	.62	1.750	1.280	1.660		.469	7/16-14	222	7/16-14X1.50
W24-24-SS	W23-24-SS	1.50	1.50	2.56	3.69	1.406	2.750	1.75	.81	2.115	1.502	1.900		.531	1/2-13	225	1/2-13X1.75
W24-32-SS	W23-32-SS	2.00	2.00	3.06	4.00	1.688	3.062	2.00	1.06	2.490	1.941	2.375		.531	1/2-13	228	1/2-13X2.00
W24-40-SS	W23-40-SS	2.50	2.50	3.56	4.50	2.000	3.500	2.31	1.12	2.995	2.325	2.875		.531	1/2-13	232	1/2-13X2.00
W24-48-SS	W23-48-SS	3.00	3.00	4.19	5.31	2.438	4.188	2.75	1.62	3.615	2.902	3.500		.656	5/8-11	237	5/8-11X2.75

CODE 61 BUTT WELD - SCHEDULE 160 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W27-8-SS	W25-8-SS	.50	.50	1.50	2.12	.688	1.500	1.06	.50	1.000	.466	.840	SCHEDULE 40 ONLY	.344	5/16-18	210	5/16-18X1.25
W27-12-SS	W25-12-SS	.75	.75	1.69	2.56	.875	1.875	1.06	.50	1.250	.616	1.050		.406	3/8-16	214	3/8-16X1.25
W27-16-SS	W25-16-SS	1.00	1.00	1.94	2.75	1.031	2.062	1.25	.56	1.560	.817	1.315		.406	3/8-16	219	3/8-16X1.25
W27-20-SS	W25-20-SS	1.25	1.25	2.19	3.12	1.188	2.312	1.44	.62	1.750	1.162	1.660		.469	7/16-14	222	7/16-14X1.50
W27-24-SS	W25-24-SS	1.50	1.50	2.56	3.69	1.406	2.750	1.75	.81	2.115	1.339	1.900		.531	1/2-13	225	1/2-13X1.75
W27-32-SS	W25-32-SS	2.00	2.00	3.06	4.00	1.688	3.062	2.00	1.06	2.490	1.691	2.375		.531	1/2-13	228	1/2-13X2.00
W27-40-SS	W25-40-SS	2.50	2.50	3.56	4.50	2.000	3.500	2.31	1.12	2.995	2.127	2.875		.531	1/2-13	232	1/2-13X2.00
W27-48-SS	W25-48-SS	3.00	3.00	4.19	5.31	2.438	4.188	2.75	1.62	3.615	2.626	3.500		.656	5/8-11	237	5/8-11X2.75

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Butt Weld Pipe

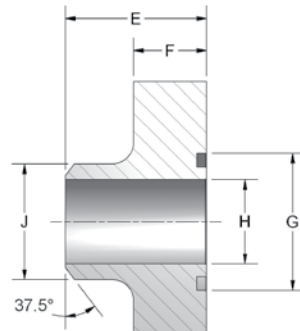
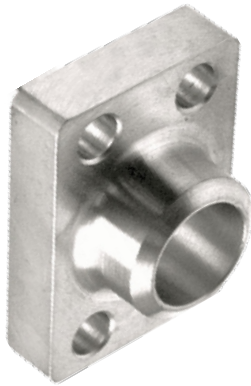


Figure 1

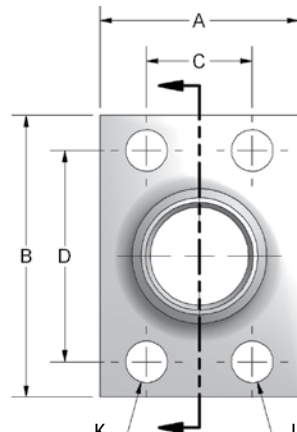


FIG. 1

FIG. 2

Figure 2

CODE 62 BUTT WELD - SCHEDULE 80 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W28-8-SS	W26-8-SS	.50	.50	1.75	2.22	.718	1.594	1.25	.776	1.000	.548	.840	.344	5/16-18	210	5/16-18X1.50
W28-12-SS	W26-12-SS	.75	.75	1.94	2.81	.937	2.000	1.42	.83	1.250	.744	1.050	.406	3/8-16	214	3/8-16X1.50
W28-16-SS	W26-16-SS	1.00	1.00	2.18	3.19	1.093	2.250	1.61	.83	1.560	.959	1.315	.492	7/16-14	219	7/16-14X1.50
W28-20-SS	W26-20-SS	1.25	1.25	2.44	3.75	1.250	2.625	1.73	.94	1.750	1.280	1.660	.531	1/2-13	222	1/2-13X2.00
W28-24-SS	W26-24-SS	1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	2.115	1.502	1.900	.656	5/8-11	225	5/8-11X2.25
W28-32-SS	W26-32-SS	2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.490	1.941	2.375	.781	3/4-10	228	3/4-10X3.00
W28-40-SS	W26-40-SS	2.50	2.50	5.00	6.88	2.311	4.874	2.37	1.50	2.995	2.325	2.875	.940	7/8-9	232	7/8-9X3.00
W28-48-SS	W26-48-SS	3.00	3.00	6.00	8.50	2.811	6.000	2.96	2.00	3.615	2.902	3.500	1.190	1-1/8-7	237	1-1/8-7X4.00

CODE 62 BUTT WELD - SCHEDULE 160 PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W30-12-SS	W29-12-SS	.75	.75	1.94	2.81	.937	2.000	1.42	.83	1.250	.616	1.050	.406	3/8-16	214	3/8-16X1.50
W30-16-SS	W29-16-SS	1.00	1.00	2.18	3.19	1.093	2.250	1.61	.83	1.560	.817	1.315	.492	7/16-14	219	7/16-14X1.50
W30-20-SS	W29-20-SS	1.25	1.25	2.44	3.75	1.250	2.625	1.73	.94	1.750	1.162	1.660	.531	1/2-13	222	1/2-13X2.00
W30-24-SS	W29-24-SS	1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	2.115	1.339	1.900	.656	5/8-11	225	5/8-11X2.25
W30-32-SS	W29-32-SS	2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.490	1.691	2.375	.781	3/4-10	228	3/4-10X3.00
W30-40-SS	W29-40-SS	2.50	2.50	5.00	6.88	2.311	4.874	2.37	1.50	2.995	2.127	2.875	.940	7/8-9	232	7/8-9X3.00
W30-48-SS	W29-48-SS	3.00	3.00	6.00	8.50	2.811	6.000	2.96	2.00	3.615	2.626	3.500	1.190	1-1/8-7	237	1-1/8-7X4.00

CODE 62 BUTT WELD - SCHEDULE XXS PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
															O-RING	SHCS
W33-12-SS	W32-12-SS	.75	.75	1.94	2.81	.937	2.000	1.42	.83	1.250	.436	1.050	.406	3/8-16	214	3/8-16X1.50
W33-16-SS	W32-16-SS	1.00	1.00	2.18	3.19	1.093	2.250	1.61	.83	1.560	.601	1.315	.492	7/16-14	219	7/16-14X1.50
W33-20-SS	W32-20-SS	1.25	1.25	2.44	3.75	1.250	2.625	1.73	.94	1.750	.898	1.660	.531	1/2-13	222	1/2-13X2.00
W33-24-SS	W32-24-SS	1.50	1.50	2.81	4.44	1.437	3.125	2.17	1.10	2.115	1.102	1.900	.656	5/8-11	225	5/8-11X2.25
W33-32-SS	W32-32-SS	2.00	2.00	3.44	5.25	1.750	3.812	2.48	1.46	2.490	1.505	2.375	.781	3/4-10	228	3/4-10X3.00
W33-40-SS	W32-40-SS	2.50	2.50	5.00	6.88	2.311	4.874	2.37	1.50	2.995	1.773	2.875	.940	7/8-9	232	7/8-9X3.00
W33-48-SS	W32-48-SS	3.00	3.00	6.00	8.50	2.811	6.000	2.96	2.00	3.615	2.302	3.500	1.190	1-1/8-7	237	1-1/8-7X4.00

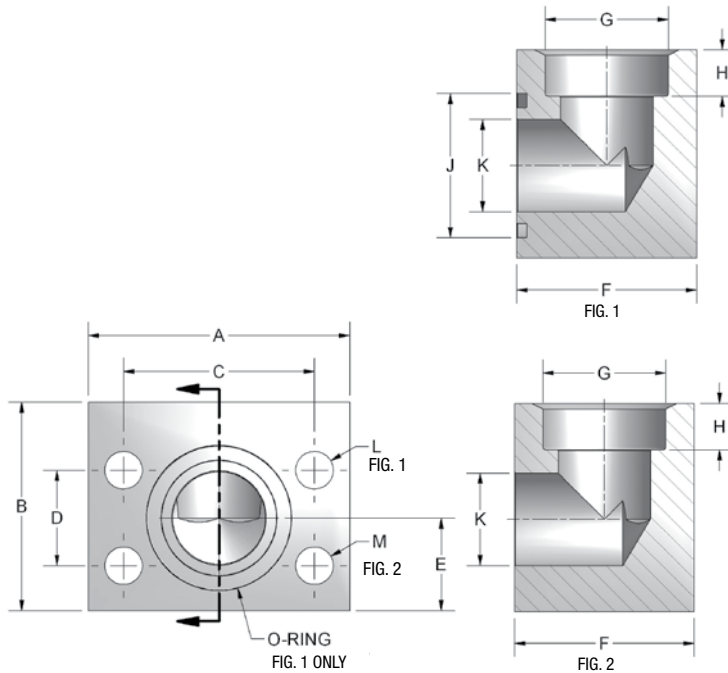
Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



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Socket Weld Pipe Elbow



CODE 61 ELBOW SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W176-8-8-SS	W169-8-8-SS	.50	.50	2.12	1.75	1.500	.688	.75	1.44	.855	.380	1.000	.50	.344	5/16-18	210	5/16-18X2.00
W176-12-12-SS	W169-12-12-SS	.75	.75	2.62	2.00	1.875	.875	.88	1.70	1.062	.500	1.250	.75	.406	3/8-16	214	3/8-16X2.50
W176-16-16-SS	W169-16-16-SS	1.00	1.00	2.82	2.25	2.062	1.031	1.00	1.94	1.328	.500	1.560	1.00	.406	3/8-16	219	3/8-16X2.75
W176-20-20-SS	W169-20-20-SS	1.25	1.25	3.19	2.75	2.312	1.188	1.25	2.40	1.672	.500	1.750	1.25	.469	7/16-14	222	7/16-14X3.00
W176-24-24-SS	W169-24-24-SS	1.50	1.50	3.75	3.00	2.750	1.406	1.38	2.90	1.922	.500	2.115	1.50	.531	1/2-13	225	1/2-13X4.00
W176-32-32-SS	W169-32-32-SS	2.00	2.00	4.00	3.50	3.062	1.688	1.62	3.40	2.406	.500	2.490	2.00	.531	1/2-13	228	1/2-13X4.50
W176-40-40-SS	W169-40-40-SS	2.50	2.50	4.50	4.00	3.500	2.000	2.00	3.96	2.906	.500	2.995	2.50	.531	1/2-13	232	1/2-13X5.00
W176-48-48-SS	W169-48-48-SS	3.00	3.00	5.31	5.00	4.188	2.438	2.25	4.96	3.547	.625	3.615	3.00	.656	5/8-11	237	5/8-11X6.00

CODE 62 ELBOW SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L	M UNC-2B	MOUNTING HARDWARE	
																O-RING	SHCS
W186-8-8-SS	W189-8-8-SS	.50	.50	2.22	2.00	1.594	.718	.88	1.46	.860	.380	1.000	.50	.344	5/16-18	210	5/16-18X2.25
W186-12-12-SS	W189-12-12-SS	.75	.75	2.81	2.25	2.000	.937	1.00	1.70	1.062	.500	1.250	.75	.406	3/8-16	214	3/8-16X2.50
W186-16-16-SS	W189-16-16-SS	1.00	1.00	3.19	2.50	2.250	1.093	1.12	2.21	1.328	.500	1.560	1.00	.492	7/16-14	219	7/16-14X3.25
W186-20-20-SS	W189-20-20-SS	1.25	1.25	3.75	3.00	2.625	1.250	1.38	2.44	1.672	.500	1.750	1.25	.531	1/2-13	222	1/2-13X3.25
W186-24-24-SS	W189-24-24-SS	1.50	1.50	4.50	3.50	3.125	1.437	1.62	2.96	1.922	.500	2.115	1.50	.656	5/8-11	225	5/8-11X4.00
W186-32-32-SS	W189-32-32-SS	2.00	2.00	5.25	4.00	3.812	1.750	2.00	3.46	2.406	.500	2.490	2.00	.781	3/4-10	228	3/4-10X5.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

Elbow Block

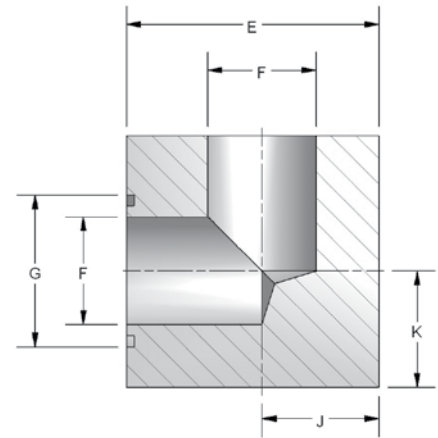


FIG. 1

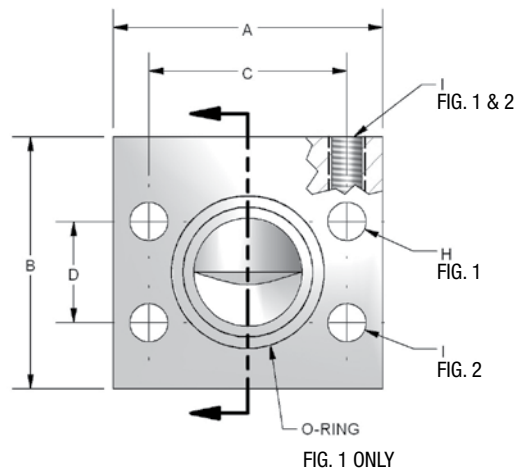


FIG. 1 ONLY

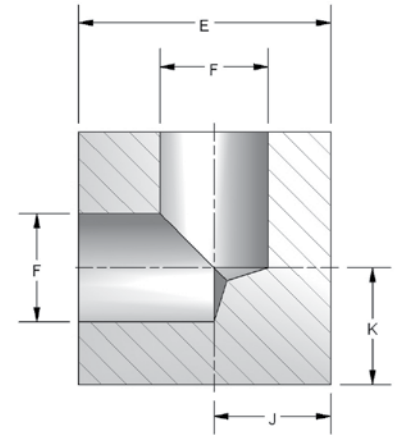


FIG. 2

CODE 61 ELBOW BLOCK															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	I UNC-2B	J	K	MOUNTING HARDWARE	
														O-RING	SHCS
W14-12-SS	W15-12-SS	.75	2.62	2.50	1.875	.875	2.25	.75	1.250	.406	3/8-16	1.03	1.03	214	3/8-16X3.00
W14-16-SS	W15-16-SS	1.00	2.82	2.50	2.062	1.031	2.50	1.00	1.560	.406	3/8-16	1.16	1.09	219	3/8-16X3.25
W14-20-SS	W15-20-SS	1.25	3.19	3.00	2.312	1.188	3.00	1.25	1.750	.469	7/16-14	1.44	1.31	222	7/16-14X4.00
W14-24-SS	W15-24-SS	1.50	3.75	3.50	2.750	1.406	3.50	1.50	2.115	.531	1/2-13	1.62	1.62	225	1/2-13X4.50
W14-32-SS	W15-32-SS	2.00	4.00	4.00	3.062	1.688	4.00	2.00	2.490	.531	1/2-13	1.91	1.91	228	1/2-13X5.00

CODE 62 ELBOW BLOCK															
PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	I UNC-2B	J	K	MOUNTING HARDWARE	
														O-RING	SHCS
W12-12-SS	W13-12-SS	.75	2.82	2.50	2.000	.937	2.50	.750	1.250	.406	3/8-16	1.19	1.06	214	3/8-16X3.50
W12-16-SS	W13-16-SS	1.00	3.19	3.00	2.250	1.093	3.00	1.00	1.560	.469	7/16-14	1.38	1.38	219	7/16-14X4.00
W12-20-SS	W13-20-SS	1.25	3.75	3.50	2.625	1.250	3.50	1.25	1.750	.531	1/2-13	1.62	1.41	222	1/2-13X4.50
W12-24-SS	W13-24-SS	1.50	4.50	4.00	3.125	1.437	4.00	1.50	2.115	.656	5/8-11	1.88	1.75	225	5/8-11X5.00
W12-32-SS	W13-32-SS	2.00	5.25	5.00	3.812	1.75	5.00	2.00	2.490	.781	3/4-10	2.25	2.50	228	3/4-10X6.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.



Tee Junction Block

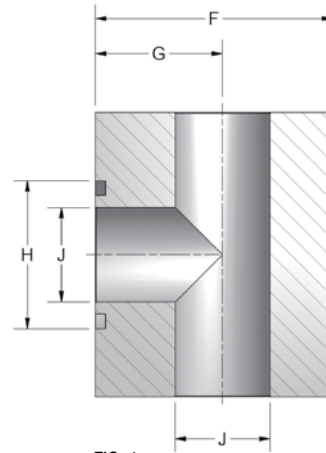


FIG. 1

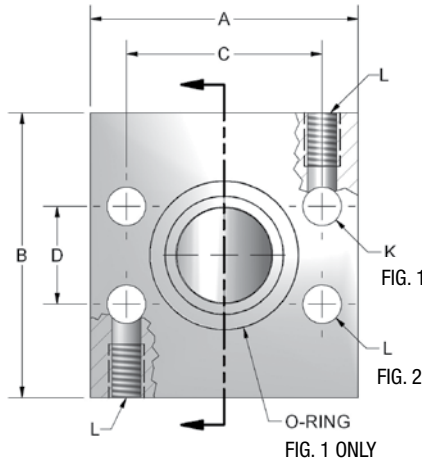


FIG. 1 ONLY

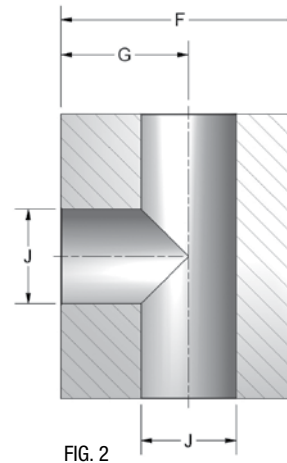


FIG. 2

CODE 61 TEE JUNCTION BLOCK

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
													O-RING	SHCS
W17-12-SS	W16-12-SS	.75	2.62	2.75	1.875	.875	2.25	1.22	1.250	.75	.406	3/8-16	214	3/8-16X3.00
W17-16-SS	W16-16-SS	1.00	2.82	3.00	2.062	1.031	2.50	1.34	1.560	1.00	.406	3/8-16	219	3/8-16X3.25
W17-20-SS	W16-20-SS	1.25	3.19	3.50	2.312	1.188	3.00	1.56	1.750	1.25	.492	7/16-14	222	7/16-14X4.00
W17-24-SS	W16-24-SS	1.50	3.75	4.00	2.750	1.406	3.50	1.88	2.115	1.50	.531	1/2-13	225	1/2-13X4.50
W17-32-SS	W16-32-SS	2.00	4.00	4.25	3.062	1.688	4.00	2.09	2.490	2.00	.531	1/2-13	228	1/2-13X5.00

CODE 62 TEE JUNCTION BLOCK

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PAD SIZE	A	B	C	D	E	F	G	H	J	K	L UNC-2B	MOUNTING HARDWARE	
														O-RING	SHCS
W19-12-SS	W18-12-SS	.75	2.81	3.00	2.000	.937	1.50	2.50	1.310	1.250	.750	.406	3/8-16	214	3/8-16X3.25
W19-16-SS	W18-16-SS	1.00	3.19	3.50	2.250	1.093	1.75	3.00	1.620	1.560	1.000	.492	7/16-14	219	7/16-14X4.00
W19-20-SS	W18-20-SS	1.25	3.75	4.00	2.625	1.250	2.00	3.50	1.880	1.750	1.250	.531	1/2-13	222	1/2-13X4.50
W19-24-SS	W18-24-SS	1.50	4.50	4.50	3.125	1.437	2.25	4.00	2.120	2.115	1.500	.656	5/8-11	225	5/8-11X5.00
W19-32-SS	W18-32-SS	2.00	5.25	5.00	3.812	1.750	2.50	5.00	2.750	2.490	2.00	.781	3/4-10	228	3/4-10X6.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

3000 Series Square Pattern

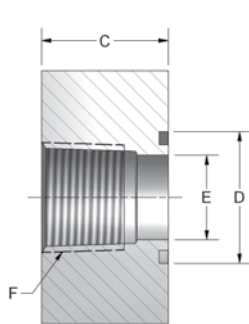
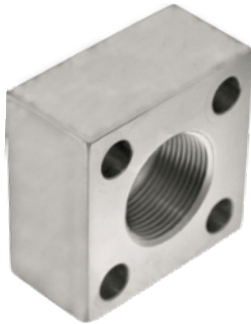


FIG. 1

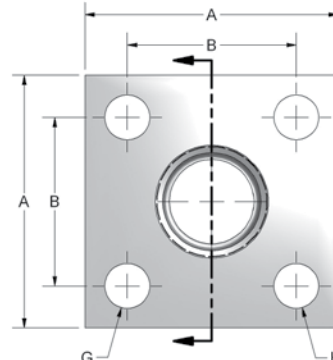


FIG. 1

FIG. 2

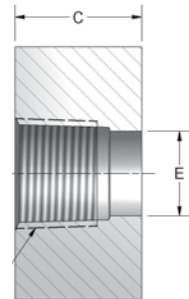


FIG. 2

3000 SERIES SQUARE NPTF THREAD

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	A	B	C	D	E	F	G	H UNC-2B	MOUNTING HARDWARE	
											O-RING	SHCS
W65-12-SS	W75-12-SS	.75	2.25	1.438	1.25	1.375	.752	.75	.406	3/8-16	216	3/8-16X2.00
W65-16-SS	W75-16-SS	1.00	3.00	2.000	1.50	1.750	1.002	1.00	.531	1/2-13	222	1/2-13X2.25
W65-20-SS	W75-20-SS	1.25	3.00	2.000	1.50	1.750	1.252	1.25	.531	1/2-13	222	1/2-13X2.25
W65-24-SS	W75-24-SS	1.50	4.00	2.750	1.75	2.500	1.502	1.50	.656	5/8-11	228	5/8-11X2.75
W65-32-SS	W75-32-SS	2.00	4.00	2.750	1.75	2.500	2.002	2.00	.656	5/8-11	228	5/8-11X2.75
W65-40-SS	W75-40-SS	2.50	5.50	3.750	2.25	3.500	2.502	2.50	.906	7/8-9	236	7/8-9X3.50
W65-48-SS	W75-48-SS	3.00	5.50	3.750	2.25	3.500	3.002	3.00	.906	7/8-9	236	7/8-9X3.50

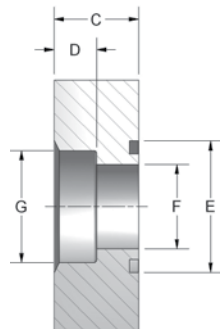


FIG. 1

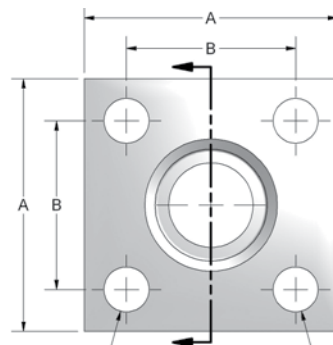


FIG. 1

FIG. 2

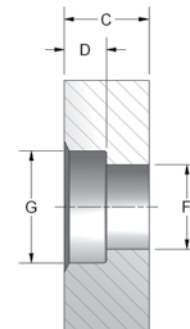


FIG. 2

3000 SERIES SQUARE SOCKET WELD - PIPE

PART NO. O-RING FIG. 1	PART NO. FLAT FACE FIG. 2	PIPE SIZE	A	B	C	D	E	F	G	H	J UNC-2B	MOUNTING HARDWARE	
												O-RING	SHCS
W66-12-SS	W76-12-SS	.75	2.25	1.438	1.00	.50	1.375	.752	1.062	.406	3/8-16	216	3/8-16X1.75
W66-16-SS	W76-16-SS	1.00	3.00	2.000	1.00	.50	1.750	1.002	1.328	.531	1/2-13	222	1/2-13X1.75
W66-20-SS	W76-20-SS	1.25	3.00	2.000	1.00	.50	1.750	1.252	1.672	.531	1/2-13	222	1/2-13X1.75
W66-24-SS	W76-24-SS	1.50	4.00	2.750	1.25	.62	2.500	1.502	1.922	.656	5/8-11	228	5/8-11X2.25
W66-32-SS	W76-32-SS	2.00	4.00	2.750	1.25	.62	2.500	2.002	2.406	.656	5/8-11	228	5/8-11X2.25
W66-40-SS	W76-40-SS	2.50	5.50	3.750	1.50	.75	3.500	2.502	2.906	.906	7/8-9	236	7/8-9X2.75
W66-48-SS	W76-48-SS	3.00	5.50	3.750	1.50	.75	3.500	3.002	3.547	.906	7/8-9	236	7/8-9X2.75
W66-64-SS	W76-64-SS	4.00	7.00	5.000	2.00	.75	4.625	3.880	4.550	1.060	1-8	347	1-8X4.00

Mounting kit available on o-ring grooved flanges by simply adding suffix letter 'U' to part number.

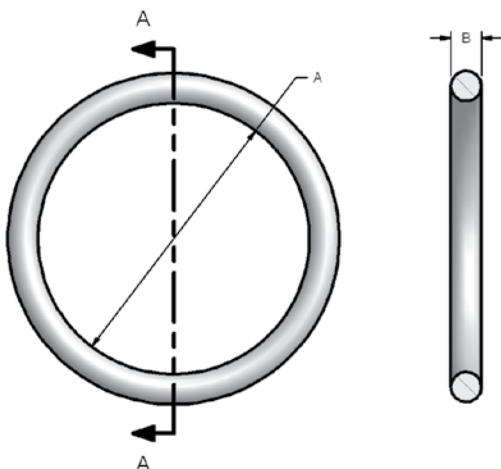


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SAE J518 O-Ring Assortment Kit

Anchor Fluid Power now offers the most commonly sized o-rings for SAE J518 flange connections in one complete kit. This assortment of 90 durometer o-rings is available in Buna or Viton material and comes conveniently packaged in its own rigid case. Request part numbers SAEJ518KIT-B (Buna) and SAEJ518KIT-V (Viton) when inquiring.



O-Ring Sizing & Kit Information:

All measurements are in inches.

90 DUROMETER					
QTY	O-RING	SIZE	- SIZE	A	B
20	210	0.50	8	0.75	0.139
20	214	0.75	12	1.00	0.139
20	219	1.00	16	1.31	0.139
20	222	1.25	20	1.50	0.139
20	225	1.50	24	1.88	0.139
20	228	2.00	32	2.25	0.139
20	232	2.50	40	2.75	0.139
20	237	3.00	48	3.38	0.139
5	241	3.50	56	3.88	0.139
5	245	4.00	64	4.38	0.139

LIMITED WARRANTY

Anchor warrants only that the Products conform to the dimensions set forth in its catalog at the time of sale. Catalog dimensions are subject to change. Anchor does not warrant products manufactured by manufacturers other than Anchor against defects in material or workmanship, though such products may be subject to warranties provided by those manufacturers. This warranty excludes damage and deterioration resulting from normal wear and tear and/or any misuse of the Product. This warranty is made in lieu of all other warranties, expressed or implied. All other warranties, expressed or implied, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING OR TRADE, are excluded and will not apply to the Products sold. If Buyer disassembles or modifies Products in any way, warranty is void. Buyer must obtain written authorization from Anchor prior to returning Products. Nonconforming Products for which a return has been authorized by Anchor in accordance with Paragraph 12 (Returns) hereof must be returned to Anchor within 30 days of delivery to Buyer. Internal material defects may not be commercially detectable. Under no circumstances will Anchor be liable for any damages or claims with respect to soundness of material. No employee, agent, or representative of Anchor has the authority to orally vary the terms of the warranty described herein. This warranty does not apply to purchasers other than Anchor's direct customers.

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Buyer's sole and exclusive remedy against Anchor for nonconforming Products will be the furnishing of replacement Products (F.O.B. Anchor) or a credit for such Products, as determined by Anchor in its sole discretion; provided that the return of nonconforming Products shall be subject to the provisions of Paragraph 12 (Returns) hereof. Anchor shall not be liable to Buyer, its employees, agents, customers or to any third party for any claim, loss or damage, general or specific, incidental or consequential, including but not limited to death, personal injury, property damage, lost sales or lost profit, which in any way arises out of or in connection with the sale of any Product, or the use or nonuse of such Products, regardless of whether such loss or damage was foreseeable and whether or not Anchor has been advised of the possibility of such loss or damage.

RETURNS

No Products may be returned to Anchor without Anchor's prior written consent. Authorized returns will be subject to a minimum restocking charge equal to 25% of Anchor's invoice price. No cash refunds will be offered by Anchor. A credit for properly returned Products will be issued to your account for future purchases from Anchor only.

ISO Certificates

Certificate of Registration

nqa global assurance

This is to certify that the Quality Management System of:

Anchor Fluid Power
5553 Murray Road
Cincinnati OH 45227
United States of America

(Central function listed above. See appendix for additional locations)

applicable to:

Manufacture and distribution of fluid power components, hydraulic flanges, and couplings

has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 9001:2015

Certificate Number: 10496
EAC Code: 18
Certified Since: August 6, 1999
Valid Until: March 8, 2023
Reissued: March 9, 2020
Cycle Issued: March 9, 2020

For and on behalf of NQA, USA

ANAB
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MANAGEMENT SYSTEMS
CERTIFICATION BODY

Page 1 of 2

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.

Certificate of Registration

nqa global assurance

This is to certify that the Occupational Health & Safety Management System of:

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5553 Murray Road
Cincinnati, OH 45227
United States of America

Central function listed above. See appendix for additional locations

applicable to:

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ISO 45001:2018

This registration is subject to the company maintaining an occupational health & safety management system, to the above standard, which will be monitored by NQA.

Certificate Number: OHS15806
EAC Code: 18
First Issued: April 14, 2015
Valid Until: March 8, 2023
Reissued: March 9, 2020
Cycle Issued: March 9, 2020

Managing Director

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Page 1 of 2

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nqa global assurance

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Anchor Fluid Power
5553 Murray Road
Cincinnati OH 45227
United States of America

applicable to:

Manufacture and distribution of fluid power components, hydraulic flanges and couplings

has been assessed and approved by
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ISO 9001:2015 and AS9100:2016
and in accordance with the requirements of AS9104/1:2012.

Certificate Number: 16925
EAC Code: 18
Certified Since: March 30, 2017
Valid Until: March 29, 2023
Reissued: March 30, 2020
Cycle Issued: March 30, 2020
Site Structure: Single Site

For and on behalf of NQA, USA

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*Stainless Steel

300.....	85	AB2.....	22	A03709.....	50
300*.....	127	AB3.....	32	A03749.....	50
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W19	118	W29	114	W49*	130
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