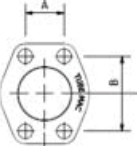
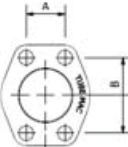


SAE 6000 PSI Reference Guide

					
Flare Flange Dimensions	Flare Flange Clearance Holes NPS FFC64	Flare Flange Clearance Holes Metric FFCM64	Flare Flange Threaded Holes NPS FFT64	Flare Flange Threaded Holes Metric FFTM64	Flare Flange Reducing Clearance Holes NPS FFCR64
					
Flare Flange Reducing Threaded Holes NPS FFTR64	Flare Flange Set O-Ring Face Cone Clearance Holes NPS FFC64-CO	Flare Flange Set O-Ring Face Cone Clearance Holes Metric FFCM64-CO	Flare Flange Set Flat Face Cone Clearance Holes NPS FFC64-CF	Flare Flange Set Flat Face Cone Clearance Holes Metric FFCM64-CF	Flare Flange Set Double Cone Clearance Holes NPS FFC64-CD
					
Flare Flange Set Double Cone Clearance Holes Metric FFCM64-CD	Flare Flange Cone Inserts NPS CO, CF, CD	Flare Flange Cone Inserts with Pilot Port NPS COP, CFP	Flare Flange Cone Inserts Metric CO, CF, CD	Flare Flange Cone Inserts with Pilot Port Metric COP, CFP	Flare Flange O-Ring Face Cone Reducer COR
					
Flare Flange Flat Face Cone Reducer CFR	Retain Ring Flange Dimensions	Retain Ring Flange Clearance Holes NPS, Metric RFAC64, RFC64	Retain Ring Flange Threaded Holes NPS, Metric RFAT64, RFT64, RFTM64	Bump Style Butt Weld Adapter Assembly, NPS A/BWA	Bump Style Butt Weld Adapter Assembly, Metric A/BWA
					
Retain Ring Style Butt Weld Adapter Assembly, NPS A/BWAR	Retain Ring Style Butt Weld Adapter Assembly, Metric A/BWAR	BSPP Female Thread Adapter Assembly A/FBTA	SAE Male Thread Adapter Assembly A/STA	NPT Male Thread Adapter Assembly A/NTA	BSPP Male Thread Adapter Assembly A/BTA

PYPLOK

FLANGES
SAE 6000

PIPES &
TUBES

CLAMPS

VALVES

BITE TYPE
FITTINGS

HP HOSES

QUICK
COUPL.

TEST
POINTS

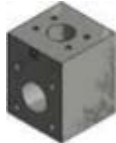
ADAPTORS

MACHINES

OTHER
PRODUCTS

SAE 6000

SAE 6000 PSI Reference Guide

					
Flare Flange Pipe Assembly NPS, Metric PAF	Flare Flange Bent Pipe Assembly NPS, Metric BPAF	Flare Flange Bend Elbow Assembly NPS, Metric A/FFE	Retain Ring Flange Bend Elbow Assembly A/RFE	Retain Ring Flange Elbow Assembly A/RRFE	Block Elbow NPS, Metric BE64, BEM64
					
	Flange Tee Assembly NPS, Metric A/RRFT	Block Tee NPS, Metric BT64, BTM64	Reducing Branch Block Tee NPS, Metric BTR64, BTRM64	Reducing Branch Block Tee NPS, Metric BTR7-64, BTRM7-64	
					
		Transition Plate Manifold Mount NPS, Metric TPOM6-34, TPOM6-34	Transition Plate Reducer NPS, Metric TPR6-34, TPRM6-34	Transition Plate ISO Reducer NPS, Metric TPR7-64, TPRM7-64	Transition Plate Reducer NPS, Metric TPR64, TPRM64
					
Transition Plate Reducer Manifold Mount NPS, Metric TPRO6-34, TPRM6-34	ISO Transition Plate Reducer Manifold Mount NPS, Metric TPRO7-64, TPRM7-64	Transition Plate Reducer Manifold Mount NPS, Metric TPRO64, TPRM64	Adapter Plate NPS, Metric AP64, APM64	O-Ring Connector Plate OCP	Connector Plate CP
					
Retain Ring R, RA	O-Ring Spacer RR Pipe Flange Connection OS	O-Ring Spacer RR Pipe to Hose End OSH	O-Ring Spacer With Pilot Port NPS, Metric OSP, OSPM	Retain Ring Flange Bulkhead Assembly A/RFBH	Retain Ring Flange Concentric Reducer Assembly A/CR

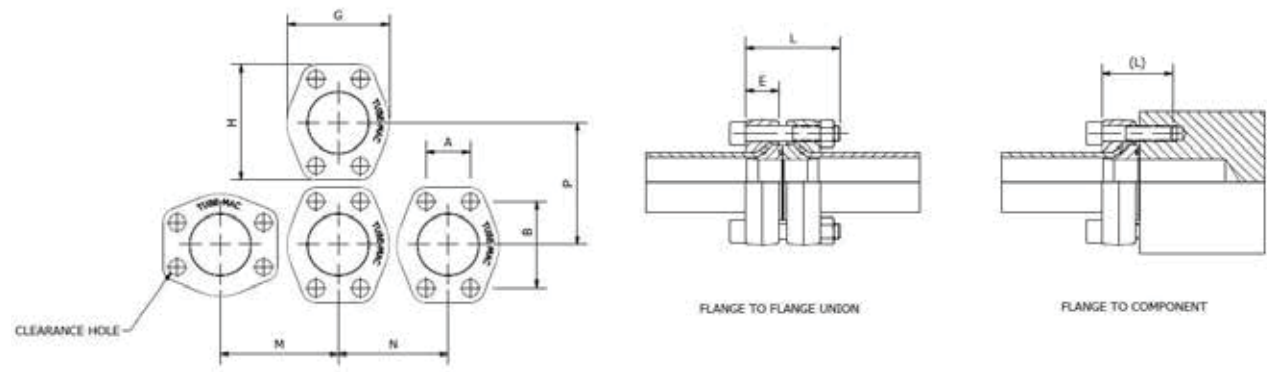
SAE 6000 PSI Reference Guide

		
Blanking Flange O-Ring Face with Clearance Holes BF064, BF0M64	Blanking Flange Flat Face with Threaded Holes BFF64, BFFM64	Non-Conductive Connector Plate NPS, Metric NCCP64

SAE 6000

SAE 6000 PSI Flare Flange Dimensions

SAE J518 Code 62 (ISO 6162-2)



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Flare Flange Dimensions (Inches)										
Size	Dimensions (in)								SHCS Bolt (in)* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1/2"	0.72	1.59	1.88	2.22	2.20	2.09	2.32	0.81	5/16"-18 UNC x 2.25 (1.50)	6000 (420)
3/4"	0.94	2.00	2.38	2.81	2.76	2.68	2.95	1.02	3/8"-16 UNC x 2.75 (1.75)	6000 (420)
1"	1.09	2.25	2.75	3.19	3.19	2.99	3.35	1.03	7/16"-14 UNC x 2.75 (1.75)	6000 (420)
1-1/4"	1.25	2.63	3.06	3.75	3.58	3.27	3.90	1.25	1/2"-13 UNC x 3.25 (2.00)	6000 (420)
1-1/2"	1.44	3.13	3.75	4.44	4.25	3.98	4.57	1.38	5/8"-11 UNC x 4.00 (2.50)	6000 (420)
2"	1.75	3.81	4.50	5.25	5.04	4.72	5.39	1.68	3/4"-10 UNC x 4.50 (2.75)	6000 (420)

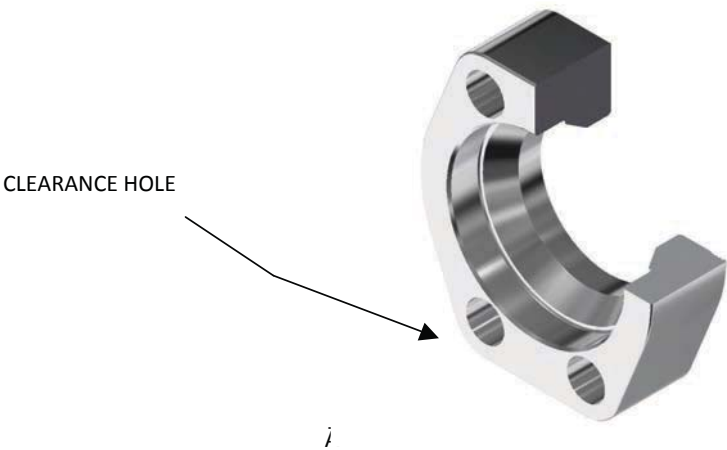
*** SHCS Bolt Specification**
Carbon Steel: ASTM A574
316 Stainless Steel: ASTM A193 B8M Class 2

Flare Flange Dimensions (Millimeters)										
Size	Dimensions (mm)								SHCS Bolt* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1/2"	18.3	40.4	47.8	56.4	55.9	53.1	58.9	20.6	M8 x 60 (40)	6000 (420)
3/4"	23.9	50.8	60.5	71.4	70.1	68.1	74.9	25.9	M10 x 70 (45)	6000 (420)
1"	27.7	57.2	69.9	81.0	81.0	75.9	85.1	26.2	M12 x 70 (45)	6000 (420)
1-1/4"	31.8	66.8	77.7	95.3	90.9	83.1	99.1	31.8	M12 x 80 (50)	6000 (420)
1-1/4" (2)	31.8	66.8	77.7	95.3	90.9	83.1	99.1	31.8	M14 x 80 (50)	6000 (420)
1-1/2"	36.6	79.5	95.3	112.8	108.0	101.1	116.1	35.1	M16 x 100 (65)	6000 (420)
2"	44.5	96.8	114.3	133.4	128.0	119.9	136.9	42.7	M20 x 120 (70)	6000 (420)

*** SHCS Bolt Specification**
Carbon Steel: DIN912 / ISO4762 Grade 8.8
316 Stainless Steel: DIN912 / ISO4762 A480
(2) Designates M14 Bolt – Special Order

SAE 6000 PSI Flare Flange with Clearance Holes, NPS

SAE J518 Code 62 (ISO 6162-2)



FFC64 - Flare Flange with Clearance Holes, NPS				
Size	Pipe O.D. (in)	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1/2"	0.840	FFC64-050-*	6000 (420)	0.56 (0.25)
3/4"	1.050	FFC64-075-*	6000 (420)	0.97 (0.44)
1"	1.315	FFC64-100-*	6000 (420)	1.27 (0.58)
1-1/4"	1.660	FFC64-125-*	6000 (420)	1.89 (0.86)
1-1/2"	1.900	FFC64-150-*	6000 (420)	3.32 (1.51)
2"	2.375	FFC64-200-*	6000 (420)	5.00 (2.27)

*** Materials:**

Standard, No Designation = Carbon Steel, Clear Zinc Plated (Cr6 Free).

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

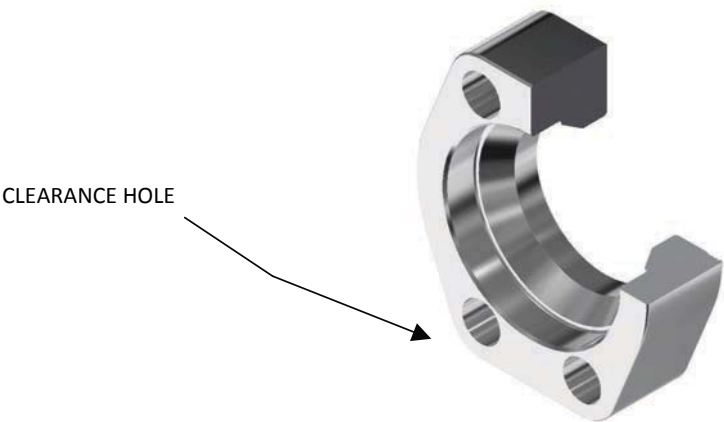
Ordering Example: FFC64-200-SS

* Insert Material

SAE 6000

SAE 6000 PSI Flare Flange with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



FFCM64 - Flare Flange with Clearance Holes, Metric				
Size	Pipe O.D. (mm)	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1/2"	16	FFCM64-050-16MM-*	6000 (420)	0.56 (0.25)
1/2"	18	FFCM64-050-18MM-*	6000 (420)	0.56 (0.25)
1/2"	20	FFCM64-050-20MM-*	6000 (420)	0.56 (0.25)
1/2"	25	FFCM64-050-25MM-*	6000 (420)	0.56 (0.25)
3/4"	20	FFCM64-075-20MM-*	6000 (420)	0.97 (0.44)
3/4"	25	FFCM64-075-25MM-*	6000 (420)	0.97 (0.44)
3/4"	30	FFCM64-075-30MM-*	6000 (420)	0.97 (0.44)
1"	25	FFCM64-100-25MM-*	6000 (420)	1.27 (0.58)
1"	30	FFCM64-100-30MM-*	6000 (420)	1.27 (0.58)
1"	38	FFCM64-100-38MM-*	6000 (420)	1.27 (0.58)
1-1/4"	30	FFCM64-125-30MM-*	6000 (420)	1.89 (0.86)
1-1/4"	38	FFCM64-125-38MM-*	6000 (420)	1.89 (0.86)
1-1/4"	42	FFC64-125-*	6000 (420)	1.89 (0.86)
1-1/4" (2)	30	FFCM64-125-M14-30MM-*	6000 (420)	1.89 (0.86)
1-1/4" (2)	38	FFCM64-125-M14-38MM-*	6000 (420)	1.89 (0.86)
1-1/4" (2)	42	FFCM64-125-M14-42MM-*	6000 (420)	1.89 (0.86)
1-1/2"	30	FFCM64-150-30MM-*	6000 (420)	3.32 (1.51)
1-1/2"	38	FFCM64-150-38MM-*	6000 (420)	3.32 (1.51)
1-1/2"	42	FFCM64-150-42MM-*	6000 (420)	3.32 (1.51)
1-1/2"	50	FFCM64-150-50MM-*	6000 (420)	3.32 (1.51)
2"	50	FFCM64-200-50MM-*	6000 (420)	5.00 (2.27)
2"	60	FFC64-200-*	6000 (420)	5.00 (2.27)

*** Materials:**

Standard, No Designation = Carbon Steel, Clear Zinc Plated (Cr6 Free).

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

(2) Designates M14 Bolt – Special Order

Ordering Example: FFCM64-200-50MM-SS

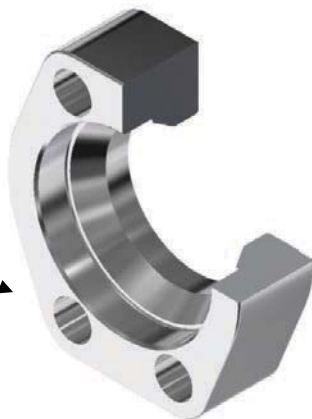
* Insert Material

SAE 6000 PSI Flare Flange - Reducing

with Clearance Holes, NPS

SAE J518 Code 62 (ISO 6162-2)

CLEARANCE HOLE

**Note:**Reducing Flanges
for NPS Pipe Only

FFCR64 - Flare Flange - Reducing with Clearance Holes, NPS

Size (flange x pipe)	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
3/4" x 1/2"	FFCR64-075 x 050	6000 (420)	0.56 (0.25)
1" x 3/4"	FFCR64-100 x 075	6000 (420)	0.97 (0.44)
1-1/4" x 1"	FFCR64-125 x 100	6000 (420)	1.27 (0.58)
1-1/2" x 1-1/4"	FFCR64-150 x 125	6000 (420)	1.89 (0.86)
2" x 1-1/2"	FFCR64-200 x 150	6000 (420)	3.32 (1.51)
2-1/2" x 2"	FFCR64-250 x 200	6000 (420)	5.00 (2.27)

*** Materials:**

Standard, No Designation = Carbon Steel, Clear Zinc Plated (Cr6 Free).

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

Ordering Example: FFCR64-075 x 050-SS

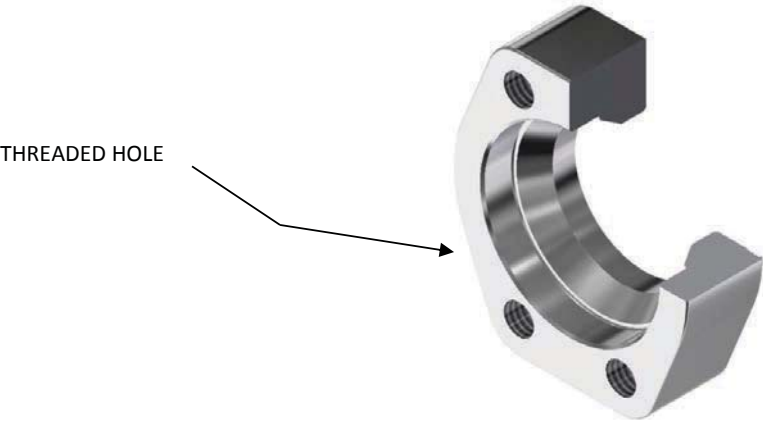
* Insert Material

SAE 6000

SAE 6000 PSI Flare Flange - Reducing

with Threaded Holes, NPS

SAE J518 Code 62 (ISO 6162-2)



Note:
Reducing Flanges
for NPS Pipe Only

FFTR64 - Flare Flange - Reducing with Threaded Holes, NPS			
Size (flange x pipe)	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
3/4" x 1/2"	FFTR64-075 x 050	6000 (420)	0.56 (0.25)
1" x 3/4"	FFTR64-100 x 075	6000 (420)	1.03 (0.47)
1-1/4" x 1"	FFTR64-125 x 100	6000 (420)	1.39 (0.63)
1-1/2" x 1-1/4"	FFTR64-150 x 125	6000 (420)	2.09 (0.95)
2" x 1-1/2"	FFTR64-200 x 150	6000 (420)	3.85 (1.75)
2-1/2" x 2"	FFTR64-250 x 200	6000 (420)	6.04(2.75)

*** Materials:**

Standard, No Designation = Carbon Steel, Clear Zinc Plated (Cr6 Free).

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

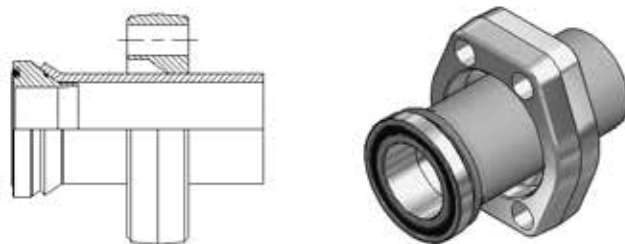
Ordering Example: FFTR64-075 x 050-SS

* Insert Material

SAE 6000 PSI Flare Flange Set

O-Ring Face with Clearance Holes, NPS

SAE J518 Code 62 (ISO 6162-2)



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Complete Flange Set Includes:

- One (1) Flare Flange
- One (1) O-Ring Face Cone
- One (1) Face O-Ring (O-Ring 2)
- One (1) Back Up O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFC64-CO - Flare Flange Set O-Ring Face with Clearance Holes, NPS

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	O-Ring Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1/2"	1/2" SCH40	FFC64-CO-SCH40-050-*~^	0.66 (0.30)	FFC64-050-*	CO-SCH40-050-*~^	ORV-1915	OR^~2-210
1/2"	1/2" SCH80	FFC64-CO-SCH80-050-*~^	0.65 (0.30)	FFC64-050-*	CO-SCH80-050-*~^	ORV-1715	OR^~2-210
3/4"	3/4" SCH40	FFC64-CO-SCH40-075-*~^	1.09 (0.50)	FFC64-075-*	CO-SCH40-075-*~^	ORV-2515	OR^~2-214
3/4"	3/4" SCH80	FFC64-CO-SCH80-075-*~^	1.07 (0.49)	FFC64-075-*	CO-SCH80-075-*~^	ORV-2315	OR^~2-214
1"	1" SCH40	FFC64-CO-SCH40-100-*~^	1.47 (0.67)	FFC64-100-*	CO-SCH40-100-*~^	ORV-3015	OR^~2-219
1"	1" SCH80	FFC64-CO-SCH80-100-*~^	1.46 (0.66)	FFC64-100-*	CO-SCH80-100-*~^	ORV-2815	OR^~2-219
1-1/4"	1-1/4" SCH40	FFC64-CO-SCH40-125-*~^	2.14 (0.97)	FFC64-125-*	CO-SCH40-125-*~^	ORV-3815	OR^~2-222
1-1/4"	1-1/4" SCH80	FFC64-CO-SCH80-125-*~^	2.13 (0.97)	FFC64-125-*	CO-SCH80-125-*~^	ORV-3815	OR^~2-222
1-1/2"	1-1/2" SCH40	FFC64-CO-SCH40-150-*~^	3.73 (1.70)	FFC64-150-*	CO-SCH40-150-*~^	ORV-4315	OR^~2-225
1-1/2"	1-1/2" SCH80	FFC64-CO-SCH80-150-*~^	3.72 (1.69)	FFC64-150-*	CO-SCH80-150-*~^	ORV-4315	OR^~2-225
1-1/2"	1-1/2" SCH160	FFC64-CO-SCH160-150-*~^	3.72 (1.69)	FFC64-150-*	CO-SCH160-150-*~^	ORV-3815	OR^~2-225
2"	2" SCH40	FFC64-CO-SCH40-200-*~^	5.47 (2.49)	FFC64-200-*	CO-SCH40-200-*~^	ORV-5615	OR^~2-228
2"	2" SCH80	FFC64-CO-SCH80-200-*~^	5.49 (2.50)	FFC64-200-*	CO-SCH80-200-*~^	ORV-5515	OR^~2-228
2"	2" SCH160	FFC64-CO-SCH160-200-*~^	5.67 (2.57)	FFC64-200-*	CO-SCH160-200-*~^	ORV-5015	OR^~2-228

*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: FFC64-CO-SCH80-200-SS-V

* Insert Material

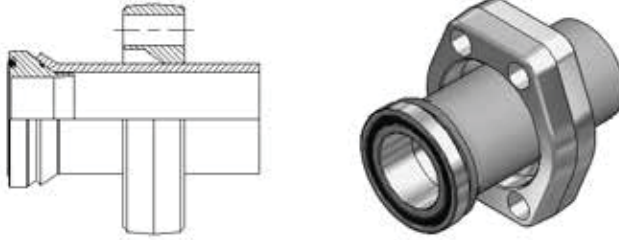
^ Insert O-Ring 2 Type

SAE 6000

SAE 6000 PSI Flare Flange Set

SAE J518 Code 62 (ISO 6162-2)

O-Ring Face with Clearance Holes, Metric



Complete Flange Set Includes:

- One (1) Flare Flange
- One (1) O-Ring Face Cone
- One (1) Face O-Ring (O-Ring 2)
- One (1) Back Up O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFCM64-CO - Flare Flange Set O-Ring Face with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	O-Ring Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1/2"	20x2.0	FFCM64-CO-20x2.0-050-*^-^	0.67 (0.31)	FFCM64-050-20MM-*	CO-20x2.0-050-*^-^	ORV-1715	OR^-2-210
1/2"	20x3.0	FFCM64-CO-20x3.0-050-*^-^	0.67 (0.31)	FFCM64-050-20MM-*	CO-20x3.0-050-*^-^	ORV-1715	OR^-2-210
1/2"	25x2.5	FFCM64-CO-25x2.5-050-*^-^	0.67 (0.31)	FFCM64-050-25MM-*	CO-25x2.5-050-*^-^	ORV-2315	OR^-2-210
1/2"	25x3.0	FFCM64-CO-25x3.0-050-*^-^	0.67 (0.31)	FFCM64-050-25MM-*	CO-25x3.0-050-*^-^	ORV-2315	OR^-2-210
3/4"	20x2.0	FFCM64-CO-20x2.0-075-*^-^	1.08 (0.49)	FFCM64-075-20MM-*	CO-20x2.0-075-*^-^	ORV-1715	OR^-2-214
3/4"	20x2.5	FFCM64-CO-20x2.5-075-*^-^	1.08 (0.49)	FFCM64-075-20MM-*	CO-20x2.5-075-*^-^	ORV-1715	OR^-2-214
3/4"	20x3.0	FFCM64-CO-20x3.0-075-*^-^	1.08 (0.49)	FFCM64-075-20MM-*	CO-20x3.0-075-*^-^	ORV-1715	OR^-2-214
3/4"	25x2.5	FFCM64-CO-25x2.5-075-*^-^	1.08 (0.49)	FFCM64-075-25MM-*	CO-25x2.5-075-*^-^	ORV-2315	OR^-2-214
3/4"	25x3.0	FFCM64-CO-25x3.0-075-*^-^	1.08 (0.49)	FFCM64-075-25MM-*	CO-25x3.0-075-*^-^	ORV-2315	OR^-2-214
3/4"	25x4.0	FFCM64-CO-25x4.0-075-*^-^	1.08 (0.49)	FFCM64-075-25MM-*	CO-25x4.0-075-*^-^	ORV-2315	OR^-2-214
3/4"	30x3.0	FFCM64-CO-30x3.0-075-*^-^	1.10 (0.50)	FFCM64-075-30MM-*	CO-30x3.0-075-*^-^	ORV-2515	OR^-2-214
1"	25x2.5	FFCM64-CO-25x2.5-100-*^-^	1.45 (0.66)	FFCM64-100-25MM-*	CO-25x2.5-100-*^-^	ORV-2315	OR^-2-219
1"	25x3.0	FFCM64-CO-25x3.0-100-*^-^	1.45 (0.66)	FFCM64-100-25MM-*	CO-25x3.0-100-*^-^	ORV-2315	OR^-2-219
1"	25x4.0	FFCM64-CO-25x4.0-100-*^-^	1.45 (0.66)	FFCM64-100-25MM-*	CO-25x4.0-100-*^-^	ORV-2315	OR^-2-219
1"	30x3.0	FFCM64-CO-30x3.0-100-*^-^	1.47 (0.67)	FFCM64-100-30MM-*	CO-30x3.0-100-*^-^	ORV-2815	OR^-2-219
1"	30x4.0	FFCM64-CO-30x4.0-100-*^-^	1.47 (0.67)	FFCM64-100-30MM-*	CO-30x4.0-100-*^-^	ORV-2815	OR^-2-219
1"	30x5.0	FFCM64-CO-30x5.0-100-*^-^	1.47 (0.67)	FFCM64-100-30MM-*	CO-30x5.0-100-*^-^	ORV-2815	OR^-2-219
1"	38x4.0	FFCM64-CO-38x4.0-100-*^-^	1.49 (0.68)	FFCM64-100-38MM-*	CO-38x4.0-100-*^-^	ORV-3515	OR^-2-219
1"	38x5.0	FFCM64-CO-38x5.0-100-*^-^	1.49 (0.68)	FFCM64-100-38MM-*	CO-38x5.0-100-*^-^	ORV-3215	OR^-2-219
1-1/4"	30x3.0	FFCM64-CO-30x3.0-125-*^-^	2.11 (0.96)	FFCM64-125-30MM-*	CO-30x3.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4"	30x4.0	FFCM64-CO-30x4.0-125-*^-^	2.11 (0.96)	FFCM64-125-30MM-*	CO-30x4.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4"	30x5.0	FFCM64-CO-30x5.0-125-*^-^	2.11 (0.96)	FFCM64-125-30MM-*	CO-30x5.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4"	38x4.0	FFCM64-CO-38x4.0-125-*^-^	2.13 (0.97)	FFCM64-125-38MM-*	CO-38x4.0-125-*^-^	ORV-3515	OR^-2-222
1-1/4"	38x5.0	FFCM64-CO-38x5.0-125-*^-^	2.13 (0.97)	FFCM64-125-38MM-*	CO-38x5.0-125-*^-^	ORV-3215	OR^-2-222
1-1/4"	42x3.0	FFCM64-CO-42x3.0-125-*^-^	2.18 (0.99)	FFC64-125-*	CO-42x3.0-125-*^-^	ORV-3815	OR^-2-222
1-1/4"	42x4.0	FFCM64-CO-42x4.0-125-*^-^	2.18 (0.99)	FFC64-125-*	CO-42x4.0-125-*^-^	ORV-3815	OR^-2-222

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: FFCM64-CO-50x3.0-200-SS-V

* Insert Material

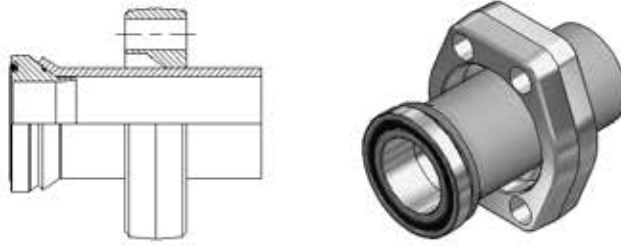
^ Insert O-Ring 2 Type

3D step models available upon request

SAE 6000 PSI Flare Flange Set

O-Ring Face with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Flare Flange
- One (1) O-Ring Face Cone
- One (1) Face O-Ring (O-Ring 2)
- One (1) Back Up O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFCM64-CO - Flare Flange Set O-Ring Face with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	O-Ring Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1-1/4" ⁽²⁾	30x3.0	FFCM64-CO-30x3.0-125-M14-*^-^	2.11 (0.96)	FFCM64-125-M14-30MM-*	CO-30x3.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4" ⁽²⁾	30x4.0	FFCM64-CO-30x4.0-125-M14-*^-^	2.11 (0.96)	FFCM64-125-M14-30MM-*	CO-30x4.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4" ⁽²⁾	30x5.0	FFCM64-CO-30x5.0-125-M14-*^-^	2.11 (0.96)	FFCM64-125-M14-30MM-*	CO-30x5.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4" ⁽²⁾	38x4.0	FFCM64-CO-38x4.0-125-M14-*^-^	2.13 (0.97)	FFCM64-125-M14-38MM-*	CO-38x4.0-125-*^-^	ORV-3515	OR^-2-222
1-1/4" ⁽²⁾	38x5.0	FFCM64-CO-38x5.0-125-M14-*^-^	2.13 (0.97)	FFCM64-125-M14-38MM-*	CO-38x5.0-125-*^-^	ORV-3215	OR^-2-222
1-1/4" ⁽²⁾	42x3.0	FFCM64-CO-42x3.0-125-M14-*^-^	2.18 (0.99)	FFCM64-125-M14-42MM-*	CO-42x3.0-125-*^-^	ORV-3815	OR^-2-222
1-1/4" ⁽²⁾	42x4.0	FFCM64-CO-42x4.0-125-M14-*^-^	2.18 (0.99)	FFCM64-125-M14-42MM-*	CO-42x4.0-125-*^-^	ORV-3815	OR^-2-222
1-1/2"	30x3.0	FFCM64-CO-30x3.0-150-*^-^	3.69 (1.68)	FFCM64-150-30MM-*	CO-30x3.0-150-*^-^	ORV-2815	OR^-2-225
1-1/2"	38x4.0	FFCM64-CO-38x4.0-150-*^-^	3.72 (1.69)	FFCM64-150-38MM-*	CO-38x4.0-150-*^-^	ORV-3215	OR^-2-225
1-1/2"	42x3.0	FFCM64-CO-42x3.0-150-*^-^	3.72 (1.69)	FFCM64-150-42MM-*	CO-42x3.0-150-*^-^	ORV-3815	OR^-2-225
1-1/2"	42x4.0	FFCM64-CO-42x4.0-150-*^-^	3.72 (1.69)	FFCM64-150-42MM-*	CO-42x4.0-150-*^-^	ORV-3815	OR^-2-225
1-1/2"	50x3.0	FFCM64-CO-50x3.0-150-*^-^	3.74 (1.70)	FFCM64-150-50MM-*	CO-50x3.0-150-*^-^	ORV-4715	OR^-2-225
1-1/2"	50x5.0	FFCM64-CO-50x5.0-150-*^-^	3.74 (1.70)	FFCM64-150-50MM-*	CO-50x5.0-150-*^-^	ORV-4515	OR^-2-225
1-1/2"	50x6.0	FFCM64-CO-50x6.0-150-*^-^	3.74 (1.70)	FFCM64-150-50MM-*	CO-50x6.0-150-*^-^	ORV-4515	OR^-2-225
1-1/2"	56x8.5	FFCM64-CO-56x8.5-150-*^-^	3.75 (1.70)	FFCM64-150-56MM-*	CO-56x8.5-150-*^-^	ORV-4315	OR^-2-225
2"	50x3.0	FFCM64-CO-50x3.0-200-*^-^	5.44 (2.47)	FFCM64-200-50MM-*	CO-50x3.0-200-*^-^	ORV-4515	OR^-2-228
2"	50x5.0	FFCM64-CO-50x5.0-200-*^-^	5.44 (2.47)	FFCM64-200-50MM-*	CO-50x5.0-200-*^-^	ORV-4515	OR^-2-228
2"	50x6.0	FFCM64-CO-50x6.0-200-*^-^	5.44 (2.47)	FFCM64-200-50MM-*	CO-50x6.0-200-*^-^	ORV-4515	OR^-2-228
2"	60x3.0	FFCM64-CO-60x3.0-200-*^-^	5.46 (2.48)	FFC64-200-*	CO-60x3.0-200-*^-^	ORV-5715	OR^-2-228
2"	60x5.0	FFCM64-CO-60x5.0-200-*^-^	5.46 (2.48)	FFC64-200-*	CO-60x5.0-200-*^-^	ORV-5615	OR^-2-228
2"	60x6.0	FFCM64-CO-60x6.0-200-*^-^	5.46 (2.48)	FFC64-200-*	CO-60x6.0-200-*^-^	ORV-5615	OR^-2-228
2"	60x8.0	FFCM64-CO-60x8.0-200-*^-^	5.46 (2.48)	FFC64-200-*	CO-60x8.0-200-*^-^	ORV-5015	OR^-2-228
2"	66x8.5	FFCM64-CO-66x8.5-200-*^-^	5.46 (2.48)	FFCM64-200-66MM-*	CO-66x8.5-200-*^-^	ORV-5615	OR^-2-228

*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

(2) Designates M14 Bolt - Special Order

Ordering Example: FFCM64-CO-50x3.0-200-SS-V

* Insert Material _____

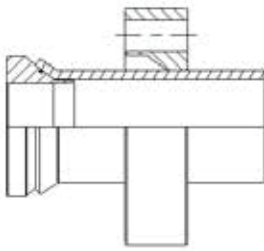
^ Insert O-Ring 2 Type _____

SAE 6000

SAE 6000 PSI Flare Flange Set

Flat Face with Clearance Holes, NPS

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Flare Flange
- One (1) Flat Face Cone
- One (1) Back Up O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFC64-CF - Flare Flange Set Flat Face with Clearance Holes, NPS

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	Flat Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	1/2" SCH40	FFC64-CF-SCH40-050-*	0.67 (0.30)	FFC64-050-*	CF-SCH40-050-*	ORV-1915
1/2"	1/2" SCH80	FFC64-CF-SCH80-050-*	0.66 (0.30)	FFC64-050-*	CF-SCH80-050-*	ORV-1715
3/4"	3/4" SCH40	FFC64-CF-SCH40-075-*	1.10 (0.50)	FFC64-075-*	CF-SCH40-075-*	ORV-2515
3/4"	3/4" SCH80	FFC64-CF-SCH80-075-*	1.08 (0.49)	FFC64-075-*	CF-SCH80-075-*	ORV-2315
1"	1" SCH40	FFC64-CF-SCH40-100-*	1.48 (0.67)	FFC64-100-*	CF-SCH40-100-*	ORV-3015
1"	1" SCH80	FFC64-CF-SCH80-100-*	1.47 (0.66)	FFC64-100-*	CF-SCH80-100-*	ORV-2815
1-1/4"	1-1/4" SCH40	FFC64-CF-SCH40-125-*	2.16 (0.98)	FFC64-125-*	CF-SCH40-125-*	ORV-3815
1-1/4"	1-1/4" SCH80	FFC64-CF-SCH80-125-*	2.14 (0.97)	FFC64-125-*	CF-SCH80-125-*	ORV-3815
1-1/2"	1-1/2" SCH40	FFC64-CF-SCH40-150-*	3.75 (1.71)	FFC64-150-*	CF-SCH40-150-*	ORV-4315
1-1/2"	1-1/2" SCH80	FFC64-CF-SCH80-150-*	3.73 (1.70)	FFC64-150-*	CF-SCH80-150-*	ORV-4315
1-1/2"	1-1/2" SCH160	FFC64-CF-SCH160-150-*	3.73 (1.70)	FFC64-150-*	CF-SCH160-150-*	ORV-3815
2"	2" SCH40	FFC64-CF-SCH40-200-*	5.49 (2.50)	FFC64-200-*	CF-SCH40-200-*	ORV-5615
2"	2" SCH80	FFC64-CF-SCH80-200-*	5.48 (2.49)	FFC64-200-*	CF-SCH80-200-*	ORV-5515
2"	2" SCH160	FFC64-CF-SCH160-200-*	5.45 (2.48)	FFC64-200-*	CF-SCH160-200-*	ORV-5015

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

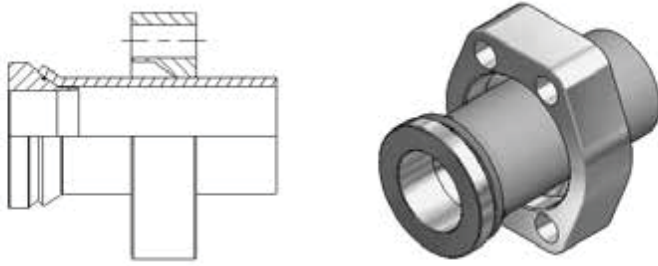
Ordering Example: FFC64-CF-SCH80-200-SS

* Insert Material _____

SAE 6000 PSI Flare Flange Set

Flat Face with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Flare Flange
- One (1) Flat Face Cone
- One (1) Back Up O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFCM64-CF - Flare Flange Set Flat Face with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	Flat Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	20x2.0	FFCM64-CF-20x2.0-050-*	0.67 (0.30)	FFCM64-050-20MM-*	CF-20x2.0-050-*	ORV-1715
1/2"	20x3.0	FFCM64-CF-20x3.0-050-*	0.67 (0.30)	FFCM64-050-20MM-*	CF-20x3.0-050-*	ORV-1715
1/2"	25x2.5	FFCM64-CF-25x2.5-050-*	0.67 (0.30)	FFCM64-050-25MM-*	CF-25x2.5-050-*	ORV-2315
1/2"	25x3.0	FFCM64-CF-25x3.0-050-*	0.67 (0.30)	FFCM64-050-25MM-*	CF-25x3.0-050-*	ORV-2315
3/4"	20x2.0	FFCM64-CF-20x2.0-075-*	1.08 (0.49)	FFCM64-075-20MM-*	CF-20x2.0-075-*	ORV-1715
3/4"	20x2.5	FFCM64-CF-20x2.5-075-*	1.08 (0.49)	FFCM64-075-20MM-*	CF-20x2.5-075-*	ORV-1715
3/4"	20x3.0	FFCM64-CF-20x3.0-075-*	1.08 (0.49)	FFCM64-075-20MM-*	CF-20x3.0-075-*	ORV-1715
3/4"	25x2.5	FFCM64-CF-25x2.5-075-*	1.08 (0.49)	FFCM64-075-25MM-*	CF-25x2.5-075-*	ORV-2315
3/4"	25x3.0	FFCM64-CF-25x3.0-075-*	1.08 (0.49)	FFCM64-075-25MM-*	CF-25x3.0-075-*	ORV-2315
3/4"	25x4.0	FFCM64-CF-25x4.0-075-*	1.08 (0.49)	FFCM64-075-25MM-*	CF-25x4.0-075-*	ORV-2315
3/4"	30x3.0	FFCM64-CF-30x3.0-075-*	1.11 (0.50)	FFCM64-075-30MM-*	CF-30x3.0-075-*	ORV-2515
1"	25x2.5	FFCM64-CF-25x2.5-100-*	1.46 (0.66)	FFCM64-100-25MM-*	CF-25x2.5-100-*	ORV-2315
1"	25x3.0	FFCM64-CF-25x3.0-100-*	1.46 (0.66)	FFCM64-100-25MM-*	CF-25x3.0-100-*	ORV-2315
1"	25x4.0	FFCM64-CF-25x4.0-100-*	1.46 (0.66)	FFCM64-100-25MM-*	CF-25x4.0-100-*	ORV-2315
1"	30x3.0	FFCM64-CF-30x3.0-100-*	1.48 (0.67)	FFCM64-100-30MM-*	CF-30x3.0-100-*	ORV-2815
1"	30x4.0	FFCM64-CF-30x4.0-100-*	1.48 (0.67)	FFCM64-100-30MM-*	CF-30x4.0-100-*	ORV-2815
1"	30x5.0	FFCM64-CF-30x5.0-100-*	1.48 (0.67)	FFCM64-100-30MM-*	CF-30x5.0-100-*	ORV-2815
1"	38x4.0	FFCM64-CF-38x4.0-100-*	1.50 (0.68)	FFCM64-100-38MM-*	CF-38x4.0-100-*	ORV-3515
1"	38x5.0	FFCM64-CF-38x5.0-100-*	1.50 (0.68)	FFCM64-100-38MM-*	CF-38x5.0-100-*	ORV-3215
1-1/4"	30x3.0	FFCM64-CF-30x3.0-125-*	2.12 (0.96)	FFCM64-125-30MM-*	CF-30x3.0-125-*	ORV-2815
1-1/4"	30x4.0	FFCM64-CF-30x4.0-125-*	2.12 (0.96)	FFCM64-125-30MM-*	CF-30x4.0-125-*	ORV-2815
1-1/4"	30x5.0	FFCM64-CF-30x5.0-125-*	2.12 (0.96)	FFCM64-125-30MM-*	CF-30x5.0-125-*	ORV-2815
1-1/4"	38x4.0	FFCM64-CF-38x4.0-125-*	2.14 (0.97)	FFCM64-125-38MM-*	CF-38x4.0-125-*	ORV-3515
1-1/4"	38x5.0	FFCM64-CF-38x5.0-125-*	2.14 (0.97)	FFCM64-125-38MM-*	CF-38x5.0-125-*	ORV-3215
1-1/4"	42x3.0	FFCM64-CF-42x3.0-125-*	2.19 (1.00)	FFC64-125-*	CF-42x3.0-125-*	ORV-3815
1-1/4"	42x4.0	FFCM64-CF-42x4.0-125-*	2.19 (1.00)	FFC64-125-*	CF-42x4.0-125-*	ORV-3815

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

Ordering Example: FFCM64-CF-50x3.0-200-SS

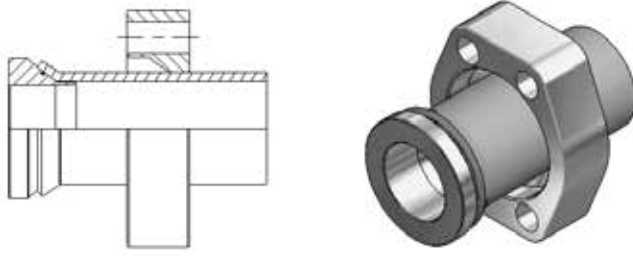
* Insert Material

SAE 6000

SAE 6000 PSI Flare Flange Set

Flat Face with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Flare Flange
- One (1) Flat Face Cone
- One (1) Back Up O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFCM64-CF - Flare Flange Set with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	Flat Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1-1/4" (2)	30x3.0	FFCM64-CF-30x3.0-125-M14-*	2.12 (0.96)	FFCM64-125-M14-30MM-*	CF-30x3.0-125-*	ORV-2815
1-1/4" (2)	30x4.0	FFCM64-CF-30x4.0-125-M14-*	2.12 (0.96)	FFCM64-125-M14-30MM-*	CF-30x4.0-125-*	ORV-2815
1-1/4" (2)	30x5.0	FFCM64-CF-30x5.0-125-M14-*	2.12 (0.96)	FFCM64-125-M14-30MM-*	CF-30x5.0-125-*	ORV-2815
1-1/4" (2)	38x4.0	FFCM64-CF-38x4.0-125-M14-*	2.14 (0.97)	FFCM64-125-M14-38MM-*	CF-38x4.0-125-*	ORV-3515
1-1/4" (2)	38x5.0	FFCM64-CF-38x5.0-125-M14-*	2.14 (0.97)	FFCM64-125-M14-38MM-*	CF-38x5.0-125-*	ORV-3215
1-1/4" (2)	42x3.0	FFCM64-CF-42x3.0-125-M14-*	2.19 (1.00)	FFCM64-125-M14-42MM-*	CF-42x3.0-125-*	ORV-3815
1-1/4" (2)	42x4.0	FFCM64-CF-42x4.0-125-M14-*	2.19 (1.00)	FFCM64-125-M14-42MM-*	CF-42x4.0-125-*	ORV-3815
1-1/2"	30x3.0	FFCM64-CF-30x3.0-150-*	3.70 (1.68)	FFCM64-150-30MM-*	CF-30x3.0-150-*	ORV-2815
1-1/2"	38x4.0	FFCM64-CF-38x4.0-150-*	3.74 (1.70)	FFCM64-150-38MM-*	CF-38x4.0-150-*	ORV-3215
1-1/2"	42x3.0	FFCM64-CF-42x3.0-150-*	3.74 (1.70)	FFCM64-150-42MM-*	CF-42x3.0-150-*	ORV-3215
1-1/2"	42x4.0	FFCM64-CF-42x4.0-150-*	3.74 (1.70)	FFCM64-150-42MM-*	CF-42x4.0-150-*	ORV-3815
1-1/2"	50x3.0	FFCM64-CF-50x3.0-150-*	3.76 (1.71)	FFCM64-150-50MM-*	CF-50x3.0-150-*	ORV-3815
1-1/2"	50x5.0	FFCM64-CF-50x5.0-150-*	3.76 (1.71)	FFCM64-150-50MM-*	CF-50x5.0-150-*	ORV-4515
1-1/2"	50x6.0	FFCM64-CF-50x6.0-150-*	3.76 (1.71)	FFCM64-150-50MM-*	CF-50x6.0-150-*	ORV-4515
1-1/2"	56x8.5	FFCM64-CF-56x8.5-150-*	3.76 (1.71)	FFCM64-150-56MM-*	CF-56x8.5-150-*	ORV-4315
2"	50x3.0	FFCM64-CF-50x3.0-200-*	5.46 (2.48)	FFCM64-200-50MM-*	CF-50x3.0-200-*	ORV-4515
2"	50x5.0	FFCM64-CF-50x5.0-200-*	5.46 (2.48)	FFCM64-200-50MM-*	CF-50x5.0-200-*	ORV-4515
2"	50x6.0	FFCM64-CF-50x6.0-200-*	5.46 (2.48)	FFCM64-200-50MM-*	CF-50x6.0-200-*	ORV-4515
2"	60x3.0	FFCM64-CF-60x3.0-200-*	5.48 (2.49)	FFC64-200-*	CF-60x3.0-200-*	ORV-5715
2"	60x5.0	FFCM64-CF-60x5.0-200-*	5.48 (2.49)	FFC64-200-*	CF-60x5.0-200-*	ORV-5615
2"	60x6.0	FFCM64-CF-60x6.0-200-*	5.48 (2.49)	FFC64-200-*	CF-60x6.0-200-*	ORV-5615
2"	60x8.0	FFCM64-CF-60x8.0-200-*	5.48 (2.49)	FFC64-200-*	CF-60x8.0-200-*	ORV-5015
2"	66x8.5	FFCM64-CF-66x8.5-200-*	5.48 (2.49)	FFCM64-200-66MM-*	CF-66x8.5-200-*	ORV-5615

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

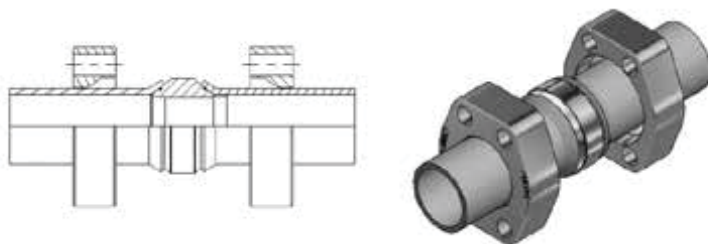
(2) Designates M14 Bolt - Special Order

Ordering Example: FFCM64-CF-50x3.0-200-SS

* Insert Material _____

SAE 6000 PSI Flare Flange Double Cone Union Set

with Clearance Holes, NPS SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- Two (2) Flare Flanges
- One (1) Double Cone
- Two (2) Back Up O-Rings (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFC64-CD - Flare Flange Double Cone Union Set with Clearance Holes, NPS

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	Double Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	1/2" SCH40	FFC64-CD-SCH40-050-*	1.32 (0.60)	FFC64-050-*	CD-SCH40-050-*	ORV-1915
1/2"	1/2" SCH80	FFC64-CD-SCH80-050-*	1.30 (0.59)	FFC64-050-*	CD-SCH80-050-*	ORV-1715
3/4"	3/4" SCH40	FFC64-CD-SCH40-075-*	2.19 (1.00)	FFC64-075-*	CD-SCH40-075-*	ORV-2515
3/4"	3/4" SCH80	FFC64-CD-SCH80-075-*	2.19 (1.00)	FFC64-075-*	CD-SCH80-075-*	ORV-2315
1"	1" SCH40	FFC64-CD-SCH40-100-*	2.95 (1.34)	FFC64-100-*	CD-SCH40-100-*	ORV-3015
1"	1" SCH80	FFC64-CD-SCH80-100-*	2.96 (1.35)	FFC64-100-*	CD-SCH80-100-*	ORV-2815
1-1/4"	1-1/4" SCH40	FFC64-CD-SCH40-125-*	4.27 (1.94)	FFC64-125-*	CD-SCH40-125-*	ORV-3815
1-1/4"	1-1/4" SCH80	FFC64-CD-SCH80-125-*	4.26 (1.94)	FFC64-125-*	CD-SCH80-125-*	ORV-3815
1-1/2"	1-1/2" SCH40	FFC64-CD-SCH40-150-*	7.46 (3.39)	FFC64-150-*	CD-SCH40-150-*	ORV-4315
1-1/2"	1-1/2" SCH80	FFC64-CD-SCH80-150-*	7.48 (3.40)	FFC64-150-*	CD-SCH80-150-*	ORV-4315
1-1/2"	1-1/2" SCH160	FFC64-CD-SCH160-150-*	7.47 (3.40)	FFC64-150-*	CD-SCH160-150-*	ORV-3815
2"	2" SCH40	FFC64-CD-SCH40-200-*	10.94 (4.97)	FFC64-200-*	CD-SCH40-200-*	ORV-5615
2"	2" SCH80	FFC64-CD-SCH80-200-*	10.94 (4.97)	FFC64-200-*	CD-SCH80-200-*	ORV-5515
2"	2" SCH160	FFC64-CD-SCH160-200-*	11.31 (5.14)	FFC64-200-*	CD-SCH160-200-*	ORV-5015

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

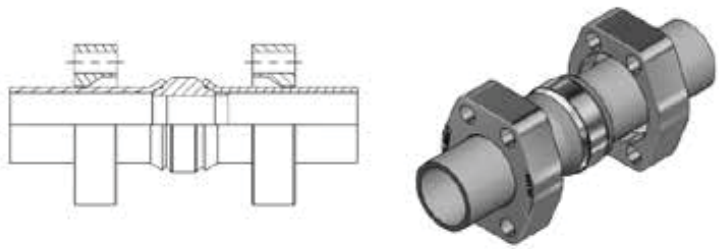
Ordering Example: FFC64-CD-SCH80-200-SS

* Insert Material

SAE 6000

SAE 6000 PSI Flare Flange Double Cone Union Set

with Clearance Holes, Metric SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- Two (2) Flare Flanges
- One (1) Double Cone
- Two (2) Back Up O-Rings (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFCM64-CD - Flare Flange Double Cone Union Set with Clearance Holes, Metric						
Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	Double Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	20x2.0	FFCM64-CD-20x2.0-050-*	1.33 (0.60)	FFCM64-050-20MM-*	CD-20x2.0-050-*	ORV-1715
1/2"	20x3.0	FFCM64-CD-20x3.0-050-*	1.33 (0.60)	FFCM64-050-20MM-*	CD-20x3.0-050-*	ORV-1715
1/2"	25x2.5	FFCM64-CD-25x2.5-050-*	1.33 (0.60)	FFCM64-050-25MM-*	CD-25x2.5-050-*	ORV-2315
1/2"	25x3.0	FFCM64-CD-25x3.0-050-*	1.33 (0.60)	FFCM64-050-25MM-*	CD-25x3.0-050-*	ORV-2315
3/4"	20x2.0	FFCM64-CD-20x2.0-075-*	2.15 (0.98)	FFCM64-075-20MM-*	CD-20x2.0-075-*	ORV-1715
3/4"	20x2.5	FFCM64-CD-20x2.5-075-*	2.15 (0.98)	FFCM64-075-20MM-*	CD-20x2.5-075-*	ORV-1715
3/4"	20x3.0	FFCM64-CD-20x3.0-075-*	2.15 (0.98)	FFCM64-075-20MM-*	CD-20x3.0-075-*	ORV-1715
3/4"	25x2.5	FFCM64-CD-25x2.5-075-*	2.15 (0.98)	FFCM64-075-25MM-*	CD-25x2.5-075-*	ORV-2315
3/4"	25x3.0	FFCM64-CD-25x3.0-075-*	2.15 (0.98)	FFCM64-075-25MM-*	CD-25x3.0-075-*	ORV-2315
3/4"	25x4.0	FFCM64-CD-25x4.0-075-*	2.15 (0.98)	FFCM64-075-25MM-*	CD-25x4.0-075-*	ORV-2315
3/4"	30x3.0	FFCM64-CD-30x3.0-075-*	2.19 (1.00)	FFCM64-075-30MM-*	CD-30x3.0-075-*	ORV-2515
1"	25x2.5	FFCM64-CD-25x2.5-100-*	2.89 (1.31)	FFCM64-100-25MM-*	CD-25x2.5-100-*	ORV-2315
1"	25x3.0	FFCM64-CD-25x3.0-100-*	2.89 (1.31)	FFCM64-100-25MM-*	CD-25x3.0-100-*	ORV-2315
1"	25x4.0	FFCM64-CD-25x4.0-100-*	2.89 (1.31)	FFCM64-100-25MM-*	CD-25x4.0-100-*	ORV-2315
1"	30x3.0	FFCM64-CD-30x3.0-100-*	2.93 (1.33)	FFCM64-100-30MM-*	CD-30x3.0-100-*	ORV-2815
1"	30x4.0	FFCM64-CD-30x4.0-100-*	2.93 (1.33)	FFCM64-100-30MM-*	CD-30x4.0-100-*	ORV-2815
1"	30x5.0	FFCM64-CD-30x5.0-100-*	2.93 (1.33)	FFCM64-100-30MM-*	CD-30x5.0-100-*	ORV-2815
1"	38x4.0	FFCM64-CD-38x4.0-100-*	2.97 (1.35)	FFCM64-100-38MM-*	CD-38x4.0-100-*	ORV-3515
1"	38x5.0	FFCM64-CD-38x5.0-100-*	2.97 (1.35)	FFCM64-100-38MM-*	CD-38x5.0-100-*	ORV-3215
1-1/4"	30x3.0	FFCM64-CD-30x3.0-125-*	4.21 (1.91)	FFCM64-125-30MM-*	CD-30x3.0-125-*	ORV-2815
1-1/4"	30x4.0	FFCM64-CD-30x4.0-125-*	4.21 (1.91)	FFCM64-125-30MM-*	CD-30x4.0-125-*	ORV-2815
1- 1/4"	30x5.0	FFCM64-CD-30x5.0-125-*	4.21 (1.91)	FFCM64-125-30MM-*	CD-30x5.0-125-*	ORV-2815
1-1/4"	38x4.0	FFCM64-CD-38x4.0-125-*	4.25 (1.93)	FFCM64-125-38MM-*	CD-38x4.0-125-*	ORV-3515
1-1/4"	38x5.0	FFCM64-CD-38x5.0-125-*	4.25 (1.93)	FFCM64-125-38MM-*	CD-38x5.0-125-*	ORV-3215
1-1/4"	42x3.0	FFCM64-CD-42x3.0-125-*	4.34 (1.97)	FFC64-125-*	CD-42x3.0-125-*	ORV-3815
1-1/4"	42x4.0	FFCM64-CD-42x4.0-125-*	4.34 (1.97)	FFC64-125-*	CD-42x4.0-125-*	ORV-3815

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

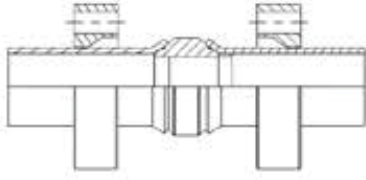
Ordering Example: FFCM64-CD-50x3.0-200-SS

* Insert Material _____

SAE 6000 PSI Flare Flange Double Cone Union Set

with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- Two (2) Flare Flanges
- One (1) Double Cone
- Two (2) Back Up O-Rings (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H1)

FFCM64-CD - Flare Flange Double Cone Union Set with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kgs)	Flange Part Number	Double Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1-1/4" (2)	30x3.0	FFCM64-CD-30x3.0-125-M14-*	4.21 (1.91)	FFCM64-125-M14-30MM-*	CD-30x3.0-125-*	ORV-2815
1-1/4" (2)	30x4.0	FFCM64-CD-30x4.0-125-M14-*	4.21 (1.91)	FFCM64-125-M14-30MM-*	CD-30x4.0-125-*	ORV-2815
1-1/4" (2)	30x5.0	FFCM64-CD-30x5.0-125-M14-*	4.21 (1.91)	FFCM64-125-M14-30MM-*	CD-30x5.0-125-*	ORV-2815
1-1/4" (2)	38x4.0	FFCM64-CD-38x4.0-125-M14-*	4.25 (1.93)	FFCM64-125-M14-38MM-*	CD-38x4.0-125-*	ORV-3515
1-1/4" (2)	38x5.0	FFCM64-CD-38x5.0-125-M14-*	4.25 (1.93)	FFCM64-125-M14-38MM-*	CD-38x5.0-125-*	ORV-3215
1-1/4" (2)	42x3.0	FFCM64-CD-42x3.0-125-M14-*	4.34 (1.97)	FFCM64-125-M14-42MM-*	CD-42x3.0-125-*	ORV-3815
1-1/4" (2)	42x4.0	FFCM64-CD-42x4.0-125-M14-*	4.34 (1.97)	FFCM64-125-M14-42MM-*	CD-42x4.0-125-*	ORV-3815
1-1/2"	30x3.0	FFCM64-CD-30x3.0-150-*	7.36 (3.35)	FFCM64-150-30MM-*	CD-30x3.0-150-*	ORV-2815
1-1/2"	38x4.0	FFCM64-CD-38x4.0-150-*	7.42 (3.37)	FFCM64-150-38MM-*	CD-38x4.0-150-*	ORV-3215
1-1/2"	42x3.0	FFCM64-CD-42x3.0-150-*	7.42 (3.37)	FFCM64-150-42MM-*	CD-42x3.0-150-*	ORV-3815
1-1/2"	42x4.0	FFCM64-CD-42x4.0-150-*	7.42 (3.37)	FFCM64-150-42MM-*	CD-42x4.0-150-*	ORV-3815
1-1/2"	50x3.0	FFCM64-CD-50x3.0-150-*	7.45 (3.39)	FFCM64-150-50MM-*	CD-50x3.0-150-*	ORV-4715
1-1/2"	50x5.0	FFCM64-CD-50x5.0-150-*	7.45 (3.39)	FFCM64-150-50MM-*	CD-50x5.0-150-*	ORV-4515
1-1/2"	50x6.0	FFCM64-CD-50x6.0-150-*	7.45 (3.39)	FFCM64-150-50MM-*	CD-50x6.0-150-*	ORV-4515
1-1/2"	56x8.5	FFCM64-CD-56x8.5-150-*	7.45 (3.39)	FFCM64-150-56MM-*	CD-56x8.5-150-*	ORV-4315
2"	50x3.0	FFCM64-CD-50x3.0-200-*	10.85 (4.93)	FFCM64-200-50MM-*	CD-50x3.0-200-*	ORV-4515
2"	50x5.0	FFCM64-CD-50x5.0-200-*	10.85 (4.93)	FFCM64-200-50MM-*	CD-50x5.0-200-*	ORV-4515
2"	50x6.0	FFCM64-CD-50x6.0-200-*	10.85 (4.93)	FFCM64-200-50MM-*	CD-50x6.0-200-*	ORV-4515
2"	60x3.0	FFCM64-CD-60x3.0-200-*	10.89 (4.95)	FFC64-200-*	CD-60x3.0-200-*	ORV-5715
2"	60x5.0	FFCM64-CD-60x5.0-200-*	10.89 (4.95)	FFC64-200-*	CD-60x5.0-200-*	ORV-5615
2"	60x6.0	FFCM64-CD-60x6.0-200-*	10.89 (4.95)	FFC64-200-*	CD-60x6.0-200-*	ORV-5615
2"	60x8.0	FFCM64-CD-60x8.0-200-*	10.89 (4.95)	FFC64-200-*	CD-60x8.0-200-*	ORV-5015
2"	66x8.5	FFCM64-CD-66x8.5-200-*	1089 (4.95)	FFCM64-200-66MM-*	CD-66x8.5-200-*	ORV-5615

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Cone, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

(2) Designates M14 Bolt - Special Order

Ordering Example: FFCM64-CD-50x3.0-200-SS

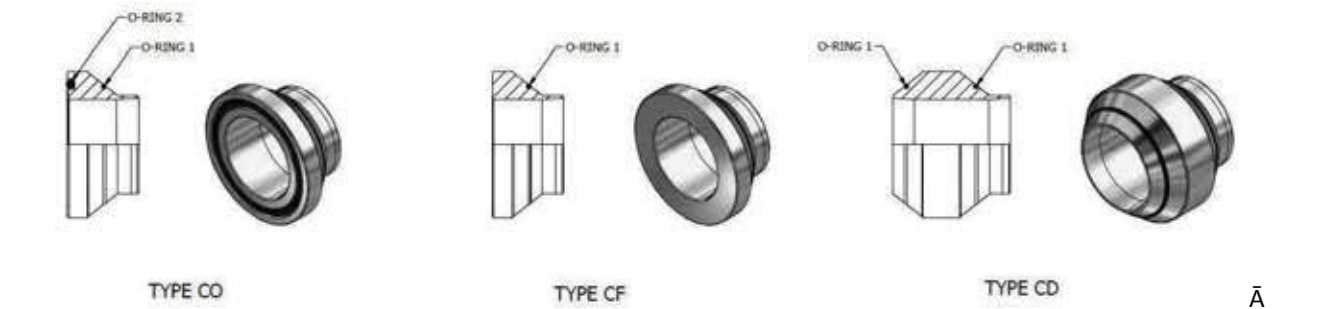
* Insert Material _____

SAE 6000

SAE 6000 PSI Cone Inserts

for Flare Flange Connections, NPS

SAE J518 Code 62 (ISO 6162-2)



CO, CF and CD - Cone Inserts for Flare Flange Connections, NPS									
Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type CO)	WT lbs (kgs)	Flat Face Cone Insert Part Number (Type CF)	WT lbs (kgs)	Double Cone Insert Part Number (Type CD)	WT lbs (kgs)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1/2"	1/2" SCH40	CO-SCH40-050-*^	0.10 (0.50)	CF-SCH40-050-*	0.11 (0.05)	CD-SCH40-050-*	0.20 (0.09)	ORV-1915	OR^-2-210
1/2"	1/2" SCH80	CO-SCH80-050-*^	0.09 (0.04)	CF-SCH80-050-*	0.10 (0.05)	CD-SCH80-050-*	0.18 (0.08)	ORV-1715	OR^-2-210
3/4"	3/4" SCH40	CO-SCH40-075-*^	0.12 (0.05)	CF-SCH40-075-*	0.14 (0.06)	CD-SCH40-075-*	0.25 (0.11)	ORV-2515	OR^-2-214
3/4"	3/4" SCH80	CO-SCH80-075-*^	0.12 (0.05)	CF-SCH80-075-*	0.14 (0.06)	CD-SCH80-075-*	0.25 (0.11)	ORV-2315	OR^-2-214
1"	1" SCH40	CO-SCH40-100-*^	0.20 (0.09)	CF-SCH40-100-*	0.23 (0.10)	CD-SCH40-100-*	0.41 (0.19)	ORV-3015	OR^-2-219
1"	1" SCH80	CO-SCH80-100-*^	0.21 (0.10)	CF-SCH80-100-*	0.23 (0.10)	CD-SCH80-100-*	0.42 (0.19)	ORV-2815	OR^-2-219
1-1/4"	1-1/4" SCH40	CO-SCH40-125-*^	0.25 (0.11)	CF-SCH40-125-*	0.27 (0.12)	CD-SCH40-125-*	0.49 (0.22)	ORV-3815	OR^-2-222
1-1/4"	1-1/4" SCH80	CO-SCH80-125-*^	0.24 (0.11)	CF-SCH80-125-*	0.27 (0.12)	CD-SCH80-125-*	0.48 (0.22)	ORV-3815	OR^-2-222
1-1/2"	1-1/2" SCH40	CO-SCH40-150-*^	0.41 (0.19)	CF-SCH40-150-*	0.45 (0.20)	CD-SCH40-150-*	0.82 (0.37)	ORV-4315	OR^-2-225
1-1/2"	1-1/2" SCH80	CO-SCH80-150-*^	0.42 (0.19)	CF-SCH80-150-*	0.46 (0.21)	CD-SCH80-150-*	0.84 (0.38)	ORV-4315	OR^-2-225
1-1/2"	1-1/2" SCH160	CO-SCH160-150-*^	0.42 (0.19)	CF-SCH160-150-*	0.45 (0.20)	CD-SCH160-150-*	0.83 (0.37)	ORV-3815	OR^-2-225
2"	2" SCH40	CO-SCH40-200-*^	0.47 (0.21)	CF-SCH40-200-*	0.52 (0.24)	CD-SCH40-200-*	0.94 (0.43)	ORV-5615	OR^-2-228
2"	2" SCH80	CO-SCH80-200-*^	0.49 (0.22)	CF-SCH80-200-*	0.53 (0.24)	CD-SCH80-200-*	0.97 (0.44)	ORV-5515	OR^-2-228
2"	2" SCH160	CO-SCH160-200-*^	0.67 (0.30)	CF-SCH160-200-*	0.71 (0.32)	CD-SCH160-200-*	1.31 (0.59)	ORV-5015	OR^-2-228

* **Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

^ **O-Ring 2 Type:**

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: CO-SCH80-200-SS-V

* Insert Material

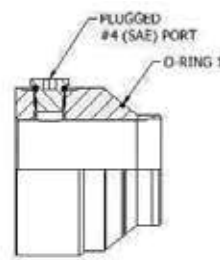
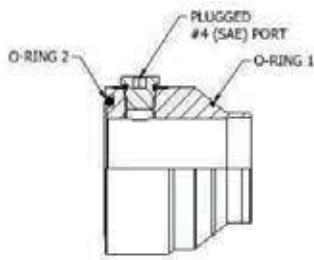
^ Insert O-Ring 2 Type

3D step models available upon request

SAE 6000 PSI Cone Inserts with Pilot Port

for Flare Flange Connections, NPS

SAE J518 Code 61 (ISO 6162-2)



COP and CFP - Cone Inserts with Pilot Port for Flare Flange Connections, NPS

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type COP)	WT lbs (kgs)	Flat Face Cone Insert Part Number (Type CFP)	WT lbs (kgs)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1/2"	1/2" SCH40	COP-SCH40-050-*~^	0.40 (0.18)	CFP-SCH40-050-*	0.40 (0.18)	ORV-1915	OR^~2-210
1/2"	1/2" SCH80	COP-SCH80-050-*~^	0.40 (0.18)	CFP-SCH80-050-*	0.40 (0.18)	ORV-1715	OR^~2-210
3/4"	3/4" SCH40	COP-SCH40-075-*~^	0.62(0.28)	CFP-SCH40-075-*	0.62(0.28)	ORV-2515	OR^~2-214
3/4"	3/4" SCH80	COP-SCH80-075-*~^	0.62 (0.28)	CFP-SCH80-075-*	0.62 (0.28)	ORV-2315	OR^~2-214
1"	1" SCH40	COP-SCH40-100-*~^	0.77 (0.35)	CFP-SCH40-100-*	0.77 (0.35)	ORV-3015	OR^~2-219
1"	1" SCH80	COP-SCH80-100-*~^	0.77 (0.35)	CFP-SCH80-100-*	0.77 (0.35)	ORV-2815	OR^~2-219
1-1/4"	1-1/4" SCH40	COP-SCH40-125-*~^	0.93 (0.42)	CFP-SCH40-125-*	0.93 (0.42)	ORV-3815	OR^~2-222
1-1/4"	1-1/4" SCH80	COP-SCH80-125-*~^	0.93 (0.42)	CFP-SCH80-125-*	0.93 (0.42)	ORV-3815	OR^~2-222
1-1/2"	1-1/2" SCH40	COP-SCH40-150-*~^	1.31 (0.59)	CFP-SCH40-150-*	1.31 (0.59)	ORV-4315	OR^~2-225
1-1/2"	1-1/2" SCH80	COP-SCH80-150-*~^	1.31 (0.59)	CFP-SCH80-150-*	1.31 (0.59)	ORV-4315	OR^~2-225
1-1/2"	1-1/2" SCH160	COP-SCH160-150-*~^	1.20 (0.54)	CFP-SCH160-150-*	1.20 (0.54)	ORV-3815	OR^~2-225
2"	2" SCH40	COP-SCH40-200-*~^	1.70 (0.77)	CFP-SCH40-200-*	1.70 (0.77)	ORV-5615	OR^~2-228
2"	2" SCH80	COP-SCH80-200-*~^	1.70 (0.77)	CFP-SCH80-200-*	1.70 (0.77)	ORV-5515	OR^~2-228
2"	2" SCH160	COP-SCH160-200-*~^	1.64 (0.74)	CFP-SCH160-200-*	1.64 (0.74)	ORV-5015	OR^~2-228

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: COP-SCH80-200-SS-V

* Insert Material

^ Insert O-Ring 2 Type

SAE 6000

SAE 6000 PSI Cone Inserts

for Flare Flange Connections, Metric

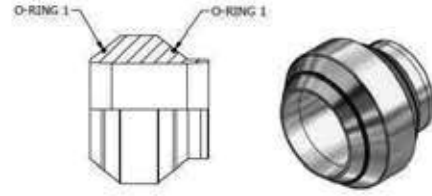
SAE J518 Code 62 (ISO 6162-2)



TYPE CO



TYPE CF



TYPE CD

CO, CF and CD - Cone Inserts for Flare Flange Connections, Metric

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type CO)	WT lbs (kgs)	Flat Face Cone Insert Part Number (Type CF)	WT lbs (kgs)	Double Cone Insert Part Number (Type CD)	WT lbs (kg)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1/2"	20x2.0	CO-20x2.0-050-*^-^	0.11 (0.05)	CF-20x2.0-050-*	0.11 (0.05)	CD-20x2.0-050-*	0.21 (0.10)	ORV-1715	OR^-2-210
1/2"	20x3.0	CO-20x3.0-050-*^-^	0.11 (0.05)	CF-20x3.0-050-*	0.11 (0.05)	CD-20x3.0-050-*	0.21 (0.10)	ORV-1715	OR^-2-210
1/2"	25x2.5	CO-25x2.5-050-*^-^	0.11 (0.05)	CF-25x2.5-050-*	0.11 (0.05)	CD-25x2.5-050-*	0.21 (0.10)	ORV-2315	OR^-2-210
1/2"	25x3.0	CO-25x3.0-050-*^-^	0.11 (0.05)	CF-25x3.0-050-*	0.11 (0.05)	CD-25x3.0-050-*	0.21 (0.10)	ORV-2315	OR^-2-210
3/4"	20x2.0	CO-20x2.0-075-*^-^	0.11 (0.05)	CF-20x2.0-075-*	0.11 (0.05)	CD-20x2.0-075-*	0.21 (0.10)	ORV-1715	OR^-2-214
3/4"	20x2.5	CO-20x2.5-075-*^-^	0.11 (0.05)	CF-20x2.5-075-*	0.11 (0.05)	CD-20x2.5-075-*	0.21 (0.10)	ORV-1715	OR^-2-214
3/4"	20x3.0	CO-20x3.0-075-*^-^	0.11 (0.05)	CF-20x3.0-075-*	0.11 (0.05)	CD-20x3.0-075-*	0.21 (0.10)	ORV-1715	OR^-2-214
3/4"	25x2.5	CO-25x2.5-075-*^-^	0.11 (0.05)	CF-25x2.5-075-*	0.11 (0.05)	CD-25x2.5-075-*	0.21 (0.10)	ORV-2315	OR^-2-214
3/4"	25x3.0	CO-25x3.0-075-*^-^	0.11 (0.05)	CF-25x3.0-075-*	0.11 (0.05)	CD-25x3.0-075-*	0.21 (0.10)	ORV-2315	OR^-2-214
3/4"	25x4.0	CO-25x4.0-075-*^-^	0.11 (0.05)	CF-25x4.0-075-*	0.11 (0.05)	CD-25x4.0-075-*	0.21 (0.10)	ORV-2315	OR^-2-214
3/4"	30x3.0	CO-30x3.0-075-*^-^	0.13 (0.06)	CF-30x3.0-075-*	0.14 (0.06)	CD-30x3.0-075-*	0.25 (0.11)	ORV-2315	OR^-2-214
1"	25x2.5	CO-25x2.5-100-*^-^	0.18 (0.08)	CF-25x2.5-100-*	0.19 (0.08)	CD-25x2.5-100-*	0.35 (0.16)	ORV-2315	OR^-2-219
1"	25x3.0	CO-25x3.0-100-*^-^	0.18 (0.08)	CF-25x3.0-100-*	0.19 (0.08)	CD-25x3.0-100-*	0.35 (0.16)	ORV-2315	OR^-2-219
1"	25x4.0	CO-25x4.0-100-*^-^	0.18 (0.08)	CF-25x4.0-100-*	0.19 (0.08)	CD-25x4.0-100-*	0.35 (0.16)	ORV-2315	OR^-2-219
1"	30x3.0	CO-30x3.0-100-*^-^	0.20 (0.09)	CF-30x3.0-100-*	0.21 (0.09)	CD-30x3.0-100-*	0.39 (0.18)	ORV-2815	OR^-2-219
1"	30x4.0	CO-30x4.0-100-*^-^	0.20 (0.09)	CF-30x4.0-100-*	0.21 (0.09)	CD-30x4.0-100-*	0.39 (0.18)	ORV-2815	OR^-2-219
1"	30x5.0	CO-30x5.0-100-*^-^	0.20 (0.09)	CF-30x5.0-100-*	0.21 (0.09)	CD-30x5.0-100-*	0.39 (0.18)	ORV-2815	OR^-2-219
1"	38x4.0	CO-38x4.0-100-*^-^	0.22 (0.10)	CF-38x4.0-100-*	0.23 (0.10)	CD-38x4.0-100-*	0.43 (0.19)	ORV-3015	OR^-2-219
1"	38x5.0	CO-38x5.0-100-*^-^	0.22 (0.10)	CF-38x5.0-100-*	0.23 (0.10)	CD-38x5.0-100-*	0.43 (0.19)	ORV-3215	OR^-2-219

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: CO-50x3.0-200-SS-V

* Insert Material

^ Insert O-Ring 2 Type

SAE 6000 PSI Cone Inserts

for Flare Flange Connections, Metric

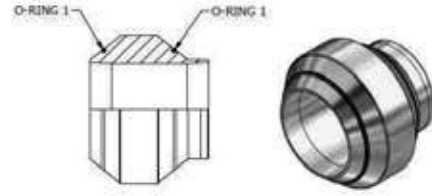
SAE J518 Code 62 (ISO 6162-2)



TYPE CO



TYPE CF



TYPE CD

CO, CF and CD - Cone Inserts for Flare Flange Connections, Metric

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type CO)	WT lbs (kgs)	Flat Face Cone Insert Part Number (Type CF)	WT lbs (kgs)	Double Cone Insert Part Number (Type CD)	WT lbs (kg)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1-1/4"	30x3.0	CO-30x3.0-125-*^	0.22 (0.10)	CF-30x3.0-125-*	0.23 (0.10)	CD-30x3.0-125-*	0.43 (0.19)	ORV-2815	OR^-2-222
1-1/4"	30x4.0	CO-30x4.0-125-*^	0.22 (0.10)	CF-30x4.0-125-*	0.23 (0.10)	CD-30x4.0-125-*	0.43 (0.19)	ORV-2815	OR^-2-222
1-1/4"	30x5.0	CO-30x5.0-125-*^	0.22 (0.10)	CF-30x5.0-125-*	0.23 (0.10)	CD-30x5.0-125-*	0.43 (0.19)	ORV-2815	OR^-2-222
1-1/4"	38x4.0	CO-38x4.0-125-*^	0.24 (0.11)	CF-38x4.0-125-*	0.25 (0.11)	CD-38x4.0-125-*	0.47 (0.21)	ORV-3515	OR^-2-222
1-1/4"	38x5.0	CO-38x5.0-125-*^	0.24 (0.11)	CF-38x5.0-125-*	0.25 (0.11)	CD-38x5.0-125-*	0.47 (0.21)	ORV-3215	OR^-2-222
1-1/4"	42x3.0	CO-42x3.0-125-*^	0.29 (0.13)	CF-42x3.0-125-*	0.30 (0.14)	CD-42x3.0-125-*	0.56 (0.25)	ORV-3815	OR^-2-222
1-1/4"	42x4.0	CO-42x4.0-125-*^	0.29 (0.13)	CF-42x4.0-125-*	0.30 (0.14)	CD-42x4.0-125-*	0.56 (0.25)	ORV-3815	OR^-2-222
1-1/2"	30x3.0	CO-30x3.0-150-*^	0.37 (0.17)	CF-30x3.0-150-*	0.38 (0.17)	CD-30x3.0-150-*	0.72 (0.33)	ORV-2815	OR^-2-225
1-1/2"	38x4.0	CO-38x4.0-150-*^	0.40 (0.18)	CF-38x4.0-150-*	0.42 (0.19)	CD-38x4.0-150-*	0.78 (0.35)	ORV-3215	OR^-2-225
1-1/2"	38x5.0	CO-38x5.0-150-*^	0.40 (0.18)	CF-38x5.0-150-*	0.42 (0.19)	CD-38x5.0-150-*	0.78 (0.35)	ORV-3215	OR^-2-225
1-1/2"	42x3.0	CO-42x3.0-150-*^	0.40 (0.18)	CF-42x3.0-150-*	0.42 (0.19)	CD-42x3.0-150-*	0.78 (0.35)	ORV-3815	OR^-2-225
1-1/2"	42x4.0	CO-42x4.0-150-*^	0.40 (0.18)	CF-42x4.0-150-*	0.42 (0.19)	CD-42x4.0-150-*	0.78 (0.35)	ORV-3815	OR^-2-225
1-1/2"	50x3.0	CO-50x3.0-150-*^	0.42 (0.19)	CF-50x3.0-150-*	0.44 (0.20)	CD-50x3.0-150-*	0.81 (0.37)	ORV-4715	OR^-2-225
1-1/2"	50x5.0	CO-50x5.0-150-*^	0.42 (0.19)	CF-50x5.0-150-*	0.44 (0.20)	CD-50x5.0-150-*	0.81 (0.37)	ORV-4515	OR^-2-225
1-1/2"	50x6.0	CO-50x6.0-150-*^	0.42 (0.19)	CF-50x6.0-150-*	0.44 (0.20)	CD-50x6.0-150-*	0.81 (0.37)	ORV-4515	OR^-2-225
1-1/2"	56x8.5	CO-56x8.5-150-*^	0.42 (0.19)	CF-56x8.5-150-*	0.44 (0.20)	CD-56x8.5-150-*	0.81 (0.37)	ORV-4315	OR^-2-225
2"	50x3.0	CO-50x3.0-200-*^	0.44 (0.20)	CF-50x3.0-200-*	0.46 (0.21)	CD-50x3.0-200-*	0.85 (0.39)	ORV-4515	OR^-2-228
2"	50x5.0	CO-50x5.0-200-*^	0.44 (0.20)	CF-50x5.0-200-*	0.46 (0.21)	CD-50x5.0-200-*	0.85 (0.39)	ORV-4515	OR^-2-228
2"	50x6.0	CO-50x6.0-200-*^	0.44 (0.20)	CF-50x6.0-200-*	0.46 (0.21)	CD-50x6.0-200-*	0.85 (0.39)	ORV-4515	OR^-2-228
2"	60x3.0	CO-60x3.0-200-*^	0.46 (0.21)	CF-60x3.0-200-*	0.48 (0.22)	CD-60x3.0-200-*	0.89 (0.40)	ORV-5715	OR^-2-228
2"	60x5.0	CO-60x5.0-200-*^	0.46 (0.21)	CF-60x5.0-200-*	0.48 (0.22)	CD-60x5.0-200-*	0.89 (0.40)	ORV-5615	OR^-2-228
2"	60x6.0	CO-60x6.0-200-*^	0.46 (0.21)	CF-60x6.0-200-*	0.48 (0.22)	CD-60x6.0-200-*	0.89 (0.40)	ORV-5615	OR^-2-228
2"	60x8.0	CO-60x8.0-200-*^	0.46 (0.21)	CF-60x8.0-200-*	0.48 (0.22)	CD-60x8.0-200-*	0.89 (0.40)	ORV-5015	OR^-2-228
2"	66x8.5	CO-66x8.5-200-*^	0.46 (0.21)	CF-66x8.5-200-*	0.48 (0.22)	CD-66x8.5-200-*	0.89 (0.40)	ORV-5615	OR^-2-228

*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: CO-50x3.0-200-SS-V

* Insert Material

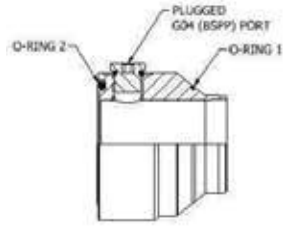
^ Insert O-Ring 2 Type

SAE 6000

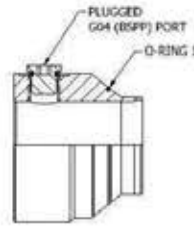
SAE 6000 PSI Cone Inserts with Pilot Port

for Flare Flange Connections, Metric

SAE J518 Code 62 (ISO 6162-2)



TYPE COP



TYPE CFP

COP and CFP - Cone Inserts with Pilot Port for Flare Flange Connections, Metric

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type COP)	WT lbs (kgs)	Flat Face Cone Insert Part Number (Type CFP)	WT lbs (kgs)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1/2"	20x2.0	COP-20x2.0-050-*^-^	0.40 (0.18)	CFP-20x2.0-050-*	0.40 (0.18)	ORV-1715	OR^-2-210
1/2"	20x3.0	COP-20x3.0-050-*^-^	0.40 (0.18)	CFP-20x3.0-050-*	0.40 (0.18)	ORV-1715	OR^-2-210
1/2"	25x2.5	COP-25x2.5-050-*^-^	0.51 (0.23)	CFP-25x2.5-050-*	0.51 (0.23)	ORV-2315	OR^-2-210
1/2"	25x3.0	COP-25x3.0-050-*^-^	0.51 (0.23)	CFP-25x3.0-050-*	0.51 (0.23)	ORV-2315	OR^-2-210
3/4"	20x2.0	COP-20x2.0-075-*^-^	0.55 (0.25)	CFP-20x2.0-075-*	0.55 (0.25)	ORV-1715	OR^-2-214
3/4"	20x2.5	COP-20x2.5-075-*^-^	0.55 (0.25)	CFP-20x2.5-075-*	0.55 (0.25)	ORV-1715	OR^-2-214
3/4"	20x3.0	COP-20x3.0-075-*^-^	0.55 (0.25)	CFP-20x3.0-075-*	0.55 (0.25)	ORV-1715	OR^-2-214
3/4"	25x2.5	COP-25x2.5-075-*^-^	0.62 (0.28)	CFP-25x2.5-075-*	0.62 (0.28)	ORV-2315	OR^-2-214
3/4"	25x3.0	COP-25x3.0-075-*^-^	0.62 (0.28)	CFP-25x3.0-075-*	0.62 (0.28)	ORV-2315	OR^-2-214
3/4"	25x4.0	COP-25x4.0-075-*^-^	0.62 (0.28)	CFP-25x4.0-075-*	0.62 (0.28)	ORV-2315	OR^-2-214
3/4"	30x3.0	COP-30x3.0-075-*^-^	0.68 (0.31)	CFP-30x3.0-075-*	0.68 (0.31)	ORV-2515	OR^-2-214
1"	25x2.5	COP-25x2.5-100-*^-^	0.70 (0.32)	CFP-25x2.5-100-*	0.70 (0.32)	ORV-2315	OR^-2-219
1"	25x3.0	COP-25x3.0-100-*^-^	0.70 (0.32)	CFP-25x3.0-100-*	0.70 (0.32)	ORV-2815	OR^-2-219
1"	25x4.0	COP-25x4.0-100-*^-^	0.70 (0.32)	CFP-25x4.0-100-*	0.70 (0.32)	ORV-2315	OR^-2-219
1"	30x3.0	COP-30x3.0-100-*^-^	0.77 (0.35)	CFP-30x3.0-100-*	0.77 (0.35)	ORV-2815	OR^-2-219
1"	30x4.0	COP-30x4.0-100-*^-^	0.77 (0.35)	CFP-30x4.0-100-*	0.77 (0.35)	ORV-2815	OR^-2-219
1"	30x5.0	COP-30x5.0-100-*^-^	0.77 (0.35)	CFP-30x5.0-100-*	0.77 (0.35)	ORV-2815	OR^-2-219
1"	38x4.0	COP-38x4.0-100-*^-^	0.81 (0.37)	CFP-38x4.0-100-*	0.81 (0.37)	ORV-3515	OR^-2-219
1"	38x5.0	COP-38x5.0-100-*^-^	0.79 (0.36)	CFP-38x5.0-100-*	0.79 (0.36)	ORV-3215	OR^-2-219
1-1/4"	30x3.0	COP-30x3.0-125-*^-^	0.82 (0.37)	CFP-30x3.0-125-*	0.82 (0.37)	ORV-2815	OR^-2-222
1-1/4"	30x4.0	COP-30x4.0-125-*^-^	0.82 (0.37)	CFP-30x4.0-125-*	0.82 (0.37)	ORV-2815	OR^-2-222
1-1/4"	30x5.0	COP-30x5.0-125-*^-^	0.82 (0.37)	CFP-30x5.0-125-*	0.82 (0.37)	ORV-2815	OR^-2-222
1-1/4"	38x4.0	COP-38x4.0-125-*^-^	0.86 (0.39)	CFP-38x4.0-125-*	0.86 (0.39)	ORV-3515	OR^-2-222
1-1/4"	38x5.0	COP-38x5.0-125-*^-^	0.86 (0.39)	CFP-38x5.0-125-*	0.86 (0.39)	ORV-3215	OR^-2-222
1-1/4"	42x3.0	COP-42x3.0-125-*^-^	0.93 (0.42)	CFP-42x3.0-125-*	0.93 (0.42)	ORV-3815	OR^-2-222
-1/4"	42x4.0	COP-42x4.0-125-*^-^	0.93 (0.42)	CFP-42x4.0-125-*	0.93 (0.42)	ORV-3815	OR^-2-222

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: COP-50x3.0-200-SS-V

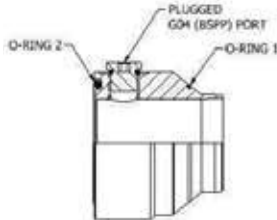
* Insert Material _____

^ Insert O-Ring 2 Type _____

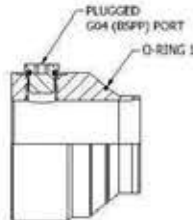
SAE 6000 PSI Cone Inserts with Pilot Port

for Flare Flange Connections, Metric

SAE J518 Code 62 (ISO 6162-2)



TYPE COP



TYPE CFP

COP and CFP - Cone Inserts with Pilot Port for Flare Flange Connections, Metric

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type COP)	WT lbs (kgs)	Flat Face Cone Insert Part Number (Type CFP)	WT lbs (kgs)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1-1/2"	30x3.0	COP-30x3.0-150-*^	1.02 (0.46)	CFP-30x3.0-150-*	1.02 (0.46)	ORV-2815	OR^2-225
1-1/2"	38x4.0	COP-38x4.0-150-*^	1.02 (0.46)	CFP-38x4.0-150-*	1.02 (0.46)	ORV-3215	OR^2-225
1-1/2"	42x3.0	COP-42x3.0-150-*^	1.21 (0.55)	CFP-42x3.0-150-*	1.21 (0.55)	ORV-3815	OR^2-225
1-1/2"	42x4.0	COP-42x4.0-150-*^	1.21 (0.55)	CFP-42x4.0-150-*	1.21 (0.55)	ORV-3815	OR^2-225
1-1/2"	50x3.0	COP-50x3.0-150-*^	1.31 (0.59)	CFP-50x3.0-150-*	1.31 (0.59)	ORV-4715	OR^2-225
1-1/2"	50x5.0	COP-50x5.0-150-*^	1.31 (0.59)	CFP-50x5.0-150-*	1.31 (0.59)	ORV-4515	OR^2-225
1-1/2"	50x6.0	COP-50x6.0-150-*^	1.28 (0.58)	CFP-50x6.0-150-*	1.28 (0.58)	ORV-4515	OR^2-225
1-1/2"	56x8.5	COP-56x8.5-150-*^	1.28 (0.58)	CFP-56x8.5-150-*	1.28 (0.58)	ORV-4315	OR^2-225
2"	50x3.0	COP-50x3.0-200-*^	1.58 (0.72)	CFP-50x3.0-200-*	1.58 (0.72)	ORV-4515	OR^2-228
2"	50x5.0	COP-50x5.0-200-*^	1.58 (0.72)	CFP-50x5.0-200-*	1.58 (0.72)	ORV-4515	OR^2-228
2"	50x6.0	COP-50x6.0-200-*^	1.55 (0.70)	CFP-50x6.0-200-*	1.55 (0.70)	ORV-4515	OR^2-228
2"	60x3.0	COP-60x3.0-200-*^	1.70 (0.77)	CFP-60x3.0-200-*	1.70 (0.77)	ORV-5715	OR^2-228
2"	60x5.0	COP-60x5.0-200-*^	1.70 (0.77)	CFP-60x5.0-200-*	1.70 (0.77)	ORV-5615	OR^2-228
2"	60x6.0	COP-60x6.0-200-*^	1.62 (0.73)	CFP-60x6.0-200-*	1.62 (0.73)	ORV-5615	OR^2-228
2"	60x8.0	COP-60x8.0-200-*^	1.62 (0.73)	CFP-60x8.0-200-*	1.62 (0.73)	ORV-5015	OR^2-228
2"	66x8.5	COP-66x8.5-200-*^	1.62 (0.73)	CFP-66x8.5-200-*	1.62 (0.73)	ORV-5615	OR^2-228

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.
V = Viton.

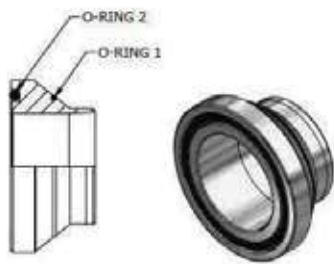
Ordering Example: COP-50x3.0-200-SS-V

* Insert Material
^ Insert O-Ring 2 Type

SAE 6000

SAE 6000 PSI Cone Inserts Reducer

for Flare Flange Connections with O-Ring Face, NPS SAE J518 Code 62 (ISO 6162-2)



TYPE COR-Æ

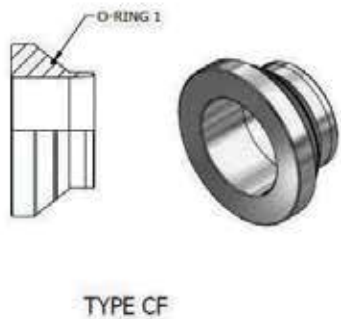
COR - Cone Inserts Reducer for Flare Flange Connections with O Ring Face, NPS					
Flange Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type COR)	WT lbs (kg)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
3/4"	1/2" SCH40	COR-SCH40-075x050-*-^	0.15 (0.07)	ORV-1715	OR^-2-214
3/4"	1/2" SCH80	COR-SCH80-075x050-*-^	0.16 (0.07)	ORV-1715	OR^-2-214
1"	3/4" SCH40	COR-SCH40-100x075-*-^	0.25 (0.11)	ORV-2315	OR^-2-219
1"	3/4" SCH80	COR-SCH80-100x075-*-^	0.27 (0.12)	ORV-2315	OR^-2-219
1-1/4"	1" SCH40	COR-SCH40-125x100-*-^	0.34 (0.15)	ORV-2815	OR^-2-222
1-1/4"	1" SCH80	COR-SCH80-125x100-*-^	0.37 (0.17)	ORV-2815	OR^-2-222
1-1/2"	1 1/4" SCH40	COR-SCH40-150x125-*-^	0.51 (0.23)	ORV-3815	OR^-2-225
1-1/2"	1 1/4" SCH80	COR-SCH80-150x125-*-^	0.56 (0.25)	ORV-3815	OR^-2-225
2"	1 1/2" SCH40	COR-SCH40-200x150-*-^	0.59 (0.27)	ORV-4515	OR^-2-228
2"	1 1/2" SCH80	COR-SCH80-200x150-*-^	0.66 (0.30)	ORV-4515	OR^-2-228

*** Materials:**
Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:
Standard, No Designation = Buna Nitrile.
V = Viton.

Ordering Example: COR-SCH80-100x075-SS-V
* Insert Material _____
^ Insert O-Ring 2 Type _____

SAE 6000 PSI Cone Inserts Reducer
for Flare Flange Connections with Flat Face, NPS
SAE J518 Code 62 (ISO 6162-2)



CFR Cone Inserts Reducer for Flare Flange Connections with Flat Face, NPS				
Flange Size	Pipe Size	Flat Face Cone Insert Part Number (Type CFR)	WT lbs (kg)	O-Ring 1 (VITON) Part Number
3/4"	1/2" SCH40	CFR-SCH40-075x050-*^-^	0.17 (0.08)	ORV-1915
3/4"	1/2" SCH80	CFR-SCH80-075x050-*^-^	0.18 (0.08)	ORV-1715
1"	3/4" SCH40	CFR-SCH40-100x075-*^-^	0.28 (0.13)	ORV-2515
1"	3/4" SCH80	CFR-SCH80-100x075-*^-^	0.30 (0.14)	ORV-2315
1-1/4"	1" SCH40	CFR-SCH40-125x100-*^-^	0.37 (0.17)	ORV-3015
1-1/4"	1" SCH80	CFR-SCH80-125x100-*^-^	0.40 (0.18)	ORV-2815
1-1/2"	1 1/4" SCH40	CFR-SCH40-150x125-*^-^	0.55 (0.25)	ORV-3815
1-1/2"	1 1/4" SCH80	CFR-SCH80-150x125-*^-^	0.60 (0.27)	ORV-3815
2"	1 1/2" SCH40	CFR-SCH40-200x150-*^-^	0.64 (0.29)	ORV-4315
2"	1 1/2" SCH80	CFR-SCH80-200x150-*^-^	0.71 (0.32)	ORV-4315

*** Materials:**
Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

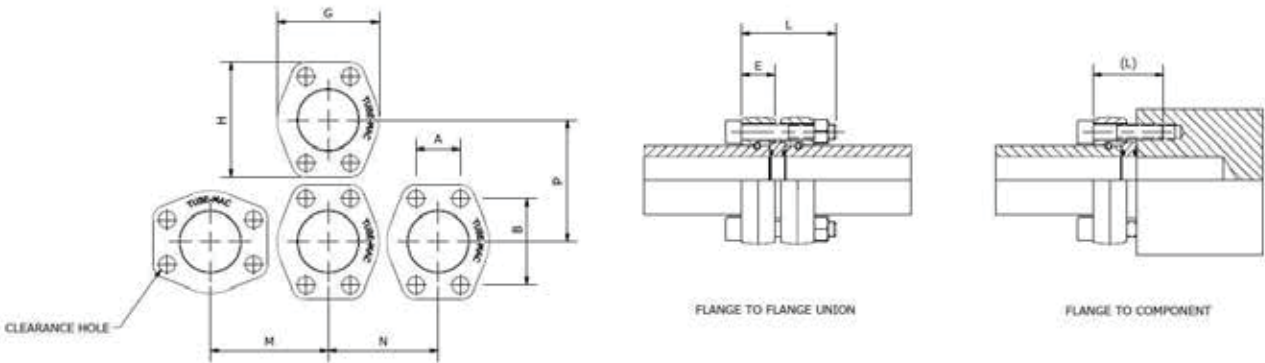
^ O-Ring 2 Type:
Standard, No Designation = Buna Nitrile.
V = Viton.

Ordering Example: COR-SCH80-100-SS-V
* Insert Material
^ Insert O-Ring 2 Type

SAE 6000

SAE 6000 PSI Retain Ring Flange Dimensions

SAE J518 Code 62 (ISO 6162-2)



Retain Ring Flange Dimensions (Inches)										
Size	Dimensions (in)								SHCS Bolt* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1/2"	0.72	1.59	1.88	2.22	2.20	2.09	2.32	0.81	5/16"-18 UNC x 2.25 (1.50)	6000 (420)
3/4"	0.94	2.00	2.38	2.81	2.76	2.68	2.95	1.02	3/8"-16 UNC x 2.75 (1.75)	6000 (420)
1"	1.09	2.25	2.75	3.19	3.19	2.99	3.35	1.03	7/16"-14 UNC x 2.75 (1.75)	6000 (420)
1-1/4"	1.25	2.63	3.06	3.75	3.58	3.27	3.90	1.25	1/2"-13 UNC x 3.25 (2.00)	6000 (420)
1-1/2"	1.44	3.13	3.75	4.44	4.25	3.98	4.57	1.38	5/8"-11 UNC x 4.00 (2.50)	6000 (420)
2"	1.75	3.81	4.50	5.25	5.04	4.72	5.39	1.68	3/4"-10 UNC x 4.50 (2.75)	6000 (420)

*** SHCS Bolt Specification**

Carbon Steel: ASTM A574

316 Stainless Steel: ASTM A193 B8M Class 2

Retain Ring Flange Dimensions (Millimeters)										
Size	Dimensions (mm)								SHCS Bolt* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1/2"	18.3	40.4	47.8	56.4	55.9	53.1	58.9	20.6	M8 x 60 (40)	6000 (420)
3/4"	23.9	50.8	60.5	71.4	70.1	68.1	74.9	25.9	M10 x 70 (45)	6000 (420)
1"	27.7	57.2	69.9	81.0	81.0	75.9	85.1	26.2	M12 x 70 (45)	6000 (420)
1-1/4"	31.8	66.8	77.7	95.3	90.9	83.1	99.1	31.8	M12 x 80 (50)	6000 (420)
1-1/4" (2)	31.8	66.8	77.7	95.3	90.9	83.1	99.1	31.8	M14 x 80 (50)	6000 (420)
1-1/2"	36.6	79.5	95.3	112.8	108.0	101.1	116.1	35.1	M16 x 100 (65)	6000 (420)
2"	44.5	96.8	114.3	133.4	128.0	119.9	136.9	42.7	M20 x 120 (70)	6000 (420)

*** SHCS Bolt Specification**

Carbon Steel: DIN912 / ISO4762 Grade 8.8

316 Stainless Steel: DIN912 / ISO4762 A480

(2) Designates M14 Bolt – Special Order

SAE 6000 PSI Retain Ring Flange with Clearance Holes

SAE J518 Code 62 (ISO 6162-2)

CLEARANCE HOLE

**RFAC64 – Retain Ring Flange with Clearance Holes, for Grooved NPS Pipe Only**

Size	Pipe Size	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1-1/2"	1 1/2" SCHXXS	RFAC64-150-*	6000 (420)	3.14 (1.43)
2"	2" SCH160/XXS	RFAC64-200-*	6000 (420)	4.82 (2.19)

RFC64 - Retain Ring Flange with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1/2"	26X6.0	RFC64-050-*	6000 (420)	0.43 (0.20)
3/4"	36X8.0	RFC64-075-*	6000 (420)	0.83 (0.38)
1"	39X7.5	RFC64-100-*	6000 (420)	1.16 (0.51)
1-1/4"	46X8.0	RFC64-125-*	6000 (420)	1.86 (0.85)
1-1/4" (2)	46X8.0	RFC64-125-M14-*	6000 (420)	1.86 (0.85)
1-1/2"	56X8.5	RFC64-150-*	6000 (420)	3.14 (1.43)
2"	66X8.5	RFC64-200-*	6000 (420)	4.82 (2.19)

*** Materials:**

Standard, No Designation = Carbon Steel, Clear Zinc Plated (Cr6 Free).

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

(2) Designates M14 Bolt – Special Order

Ordering Example: RFAC64-200-SS

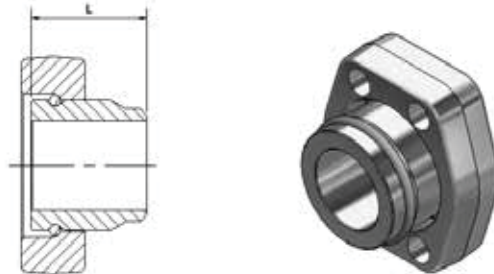
* Insert Material

SAE 6000

SAE 6000 PSI Butt Weld Adapter

Assembly Retain Ring Style with Clearance Holes, NPS

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Retain Ring Flange
- One (1) Weld Adapter Body
- One (1) Retain Ring

To be Ordered Separately:

- Bolt Kit (See Page H25)
- O-Ring Spacer (See Page H75)

A/BWAR - Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, NPS

Size	Pipe Size	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (in) L	Weld Adapter Body Part Number	Flange Part Number	Retain Ring (Stainless Steel) Part Number
1/2"	1/2" SCH80	A/BWAR-SCH80-050-FC64-*	0.67 (0.30)	1.25	BWAR-SCH80-050-*	RFC64-050-*	R-050
1/2"	1/2" SCH160	A/BWAR-SCH160-050-FC64-*	0.68 (0.31)	1.25	BWAR-SCH160-050-*	RFC64-050-*	R-050
1/2"	1/2" SCHXXS	A/BWAR-SCHXXS-050-FC64-*	0.69 (0.31)	1.25	BWAR-SCHXXS-050-*	RFC64-050-*	R-050
3/4"	3/4" SCH80	A/BWAR-SCH80-075-FC64-*	1.29 (0.59)	1.75	BWAR-SCH80-075-*	RFC64-075-*	R-075
3/4"	3/4" SCH160	A/BWAR-SCH160-075-FC64-*	1.37 (0.62)	1.75	BWAR-SCH160-075-*	RFC64-075-*	R-075
3/4"	3/4" SCHXXS	A/BWAR-SCHXXS-075-FC64-*	1.40 (0.64)	1.75	BWAR-SCHXXS-075-*	RFC64-075-*	R-075
1"	1" SCH80	A/BWAR-SCH80-100-FC64-*	1.66 (0.75)	1.75	BWAR-SCH80-100-*	RFC64-100-*	R-100
1"	1" SCH160	A/BWAR-SCH160-100-FC64-*	1.77 (0.80)	1.75	BWAR-SCH160-100-*	RFC64-100-*	R-100
1"	1" SCHXXS	A/BWAR-SCHXXS-100-FC64-*	1.81 (0.82)	1.75	BWAR-SCHXXS-100-*	RFC64-100-*	R-100
1-1/4"	1-1/4" SCH80	A/BWAR-SCH80-125-FC64-*	2.69 (1.22)	2.00	BWAR-SCH80-125-*	RFC64-125-*	R-125
1-1/4"	1-1/4" SCH160	A/BWAR-SCH160-125-FC64-*	2.72 (1.24)	2.00	BWAR-SCH160-125-*	RFC64-125-*	R-125
1-1/4"	1-1/4" SCHXXS	A/BWAR-SCHXXS-125-FC64-*	2.83 (1.29)	2.00	BWAR-SCHXXS-125-*	RFC64-125-*	R-125
1-1/2"	1-1/2" SCH80	A/BWAR-SCH80-150-FC64-*	3.79 (1.72)	2.25	BWAR-SCH80-150-*	RFC64-150-*	R-150
1-1/2"	1-1/2" SCH160	A/BWAR-SCH160-150-FC64-*	4.43 (2.01)	2.25	BWAR-SCH160-150-*	RFC64-150-*	R-150
1-1/2"	1-1/2" SCHXXS	A/BWAR-SCHXXS-150-FC64-*	4.45 (2.02)	2.25	BWAR-SCHXXS-150-*	RFC64-150-*	R-150
2"	2" SCH80	A/BWAR-SCH80-200-FC64-*	6.50 (2.95)	2.50	BWAR-SCH80-200-*	RFC64-200-*	R-200
2"	2" SCH160	A/BWAR-SCH160-200-FC64-*	6.67 (3.03)	2.50	BWAR-SCH160-200-*	RFC64-200-*	R-200
2"	2" SCHXXS	A/BWAR-SCHXXS-200-FC64-*	6.71 (3.05)	2.50	BWAR-SCHXXS-200-*	RFC64-200-*	R-200

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Adapter Body, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Adapter Body, Type 316.

Note: To Order A Retain Ring Flange with Threaded Holes, Replace FC with FT in the Part Number.

Ordering Example: A/BWAR-SCH80-200-FC64-SS

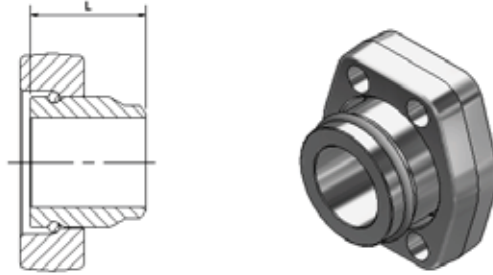
* Insert Material

3D step models available upon request

SAE 6000 PSI Butt Weld Adapter

Assembly Retain Ring Style with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Retain Ring Flange
- One (1) Weld Adapter Body
- One (1) Retain Ring

To be Ordered Separately:

- Bolt Kit (See Page H25)
- O-Ring Spacer (See Page H75)

A/BWAR - Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (mm) L	Weld Adapter Body Part Number	Flange Part Number	Retain Ring (Stainless Steel) Part Number
1/2"	16.0x2.0	A/BWAR-16.0X2.0-050-FC64-*	0.68 (0.31)	38.1	BWAR-16.0X2.0-050-*	RFC64-050-*	R-050
1/2"	18.0x2.0	A/BWAR-18.0X2.0-050-FC64-*	0.68 (0.31)	38.1	BWAR-18.0X2.0-050-*	RFC64-050-*	R-050
1/2"	20.0x2.0	A/BWAR-20.0X2.0-050-FC64-*	0.70 (0.35)	38.1	BWAR-20.0X2.0-050-*	RFC64-050-*	R-050
1/2"	20.0x2.5	A/BWAR-20.0X2.5-050-FC64-*	0.70 (0.35)	38.1	BWAR-20.0X2.5-050-*	RFC64-050-*	R-050
1/2"	20.0x3.0	A/BWAR-20.0X3.0-050-FC64-*	0.70 (0.35)	38.1	BWAR-20.0X3.0-050-*	RFC64-050-*	R-050
1/2"	21.3x2.8	A/BWAR-SCH40-050-FC64-*	0.66 (0.30)	31.8	BWAR-SCH40-050-*	RFC64-050-*	R-050
1/2"	21.3x3.7	A/BWAR-SCH80-050-FC64-*	0.67 (0.30)	31.8	BWAR-SCH80-050-*	RFC64-050-*	R-050
1/2"	21.3x4.8	A/BWAR-SCH160-050-FC64-*	0.68 (0.31)	31.8	BWAR-SCH160-050-*	RFC64-050-*	R-050
1/2"	21.3x7.5	A/BWAR-SCHXXS-050-FC64-*	0.69 (0.31)	31.8	BWAR-SCHXXS-050-*	RFC64-050-*	R-050
1/2"	25.0X2.5	A/BWAR-25.0X2.5-050-FC64-*	0.69 (0.31)	38.1	BWAR-25.0X2.5-050-*	RFC64-050-*	R-050
1/2"	25.0X3.0	A/BWAR-25.0X3.0-050-FC64-*	0.69 (0.31)	38.1	BWAR-25.0X3.0-050-*	RFC64-050-*	R-050
1/2"	26.0X6.0	A/BWAR-26.0X6.0-050-FC64-*	0.74 (0.34)	38.1	BWAR-26.0X6.0-050-*	RFC64-050-*	R-050
3/4"	20.0X2.0	A/BWAR-20.0X2.0-075-FC64-*	1.32 (0.60)	44.5	BWAR-20.0X2.0-075-*	RFC64-075-*	R-075
3/4"	20.0X2.5	A/BWAR-20.0X2.5-075-FC64-*	1.34 (0.61)	44.5	BWAR-20.0X2.5-075-*	RFC64-075-*	R-075
3/4"	20.0X3.0	A/BWAR-20.0X3.0-075-FC64-*	1.34 (0.61)	44.5	BWAR-20.0X3.0-075-*	RFC64-075-*	R-075
3/4"	25.0X2.5	A/BWAR-25.0X2.5-075-FC64-*	1.31 (0.60)	44.5	BWAR-25.0X2.5-075-*	RFC64-075-*	R-075
3/4"	25.0X3.0	A/BWAR-25.0X3.0-075-FC64-*	1.32 (0.60)	44.5	BWAR-25.0X3.0-075-*	RFC64-075-*	R-075
3/4"	25.0X4.0	A/BWAR-25.0X4.0-075-FC64-*	1.34 (0.61)	44.5	BWAR-25.0X4.0-075-*	RFC64-075-*	R-075
3/4"	26.7X2.9	A/BWAR-SCH40-075-FC64-*	1.27 (0.58)	44.5	BWAR-SCH40-075-*	RFC64-075-*	R-075
3/4"	26.7X3.9	A/BWAR-SCH80-075-FC64-*	1.29 (0.59)	44.5	BWAR-SCH80-075-*	RFC64-075-*	R-075
3/4"	26.7X5.5	A/BWAR-SCH160-075-FC64-*	1.37 (0.62)	44.5	BWAR-SCH160-075-*	RFC64-075-*	R-075
3/4"	26.7X7.8	A/BWAR-SCHXXS-075-FC64-*	2.02 (0.92)	44.5	BWAR-SCHXXS-075-*	RFC64-075-*	R-075
3/4"	30.0X3.0	A/BWAR-30.0X3.0-075-FC64-*	1.22 (0.55)	44.5	BWAR-30.0X3.0-075-*	RFC64-075-*	R-075
3/4"	30.0X4.0	A/BWAR-30.0X4.0-075-FC64-*	1.25 (0.57)	44.5	BWAR-30.0X4.0-075-*	RFC64-075-*	R-075
3/4"	36.0X8.0	A/BWAR-36.0X8.0-075-FC64-*	1.40 (0.64)	44.5	BWAR-36.0X8.0-075-*	RFC64-075-*	R-075

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Adapter Body, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Adapter Body, Type 316.

Note: To Order A Retain Ring Flange with Threaded Holes, Replace FC with FT in the Part Number.

Ordering Example: A/BWAR-50.0X3.0-200-FC64-SS

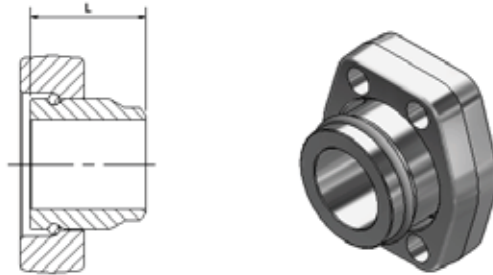
* Insert Material

SAE 6000

SAE 6000 PSI Butt Weld Adapter

Assembly Retain Ring Style with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Retain Ring Flange
- One (1) Weld Adapter Body
- One (1) Retain Ring

To be Ordered Separately:

- Bolt Kit (See Page H25)
- O-Ring Spacer (See Page H75)

A/BWAR - Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (mm) L	Weld Adapter Body Part Number	Flange Part Number	Retain Ring (Stainless Steel) Part Number
1"	25.0X2.5	A/BWAR-25.0X2.5-100-FC64-*	1.64 (0.75)	44.5	BWAR-25.0X2.5-100-*	RFC64-100-*	R-100
1"	25.0X3.0	A/BWAR-25.0X3.0-100-FC64-*	1.64 (0.75)	44.5	BWAR-25.0X3.0-100-*	RFC64-100-*	R-100
1"	25.0X4.0	A/BWAR-25.0X4.0-100-FC64-*	1.67 (0.76)	44.5	BWAR-25.0X4.0-100-*	RFC64-100-*	R-100
1"	30.0X3.0	A/BWAR-30.0X3.0-100-FC64-*	1.68 (0.76)	44.5	BWAR-30.0X3.0-100-*	RFC64-100-*	R-100
1"	30.0X4.0	A/BWAR-30.0X4.0-100-FC64-*	1.66 (0.75)	44.5	BWAR-30.0X4.0-100-*	RFC64-100-*	R-100
1"	30.0X5.0	A/BWAR-30.0X5.0-100-FC64-*	1.73 (0.79)	44.5	BWAR-30.0X5.0-100-*	RFC64-100-*	R-100
1"	33.4X3.4	A/BWAR-SCH40-100-FC64-*	1.66 (0.75)	44.5	BWAR-SCH40-100-*	RFC64-100-*	R-100
1"	33.4X4.6	A/BWAR-SCH80-100-FC64-*	1.66 (0.75)	44.5	BWAR-SCH80-100-*	RFC64-100-*	R-100
1"	33.4X6.4	A/BWAR-SCH160-100-FC64-*	1.77 (0.80)	44.5	BWAR-SCH160-100-*	RFC64-100-*	R-100
1"	33.4X9.1	A/BWAR-SCHXXS-100-FC64-*	1.81 (0.82)	44.5	BWAR-SCHXXS-100-*	RFC64-100-*	R-100
1"	38.0X4.0	A/BWAR-38.0X4.0-100-FC64-*	1.66 (0.75)	44.5	BWAR-38.0X4.0-100-*	RFC64-100-*	R-100
1"	38.0X5.0	A/BWAR-38.0X5.0-100-FC64-*	1.66 (0.75)	44.5	BWAR-38.0X5.0-100-*	RFC64-100-*	R-100
1"	38.0X6.0	A/BWAR-38.0X6.0-100-FC64-*	1.75 (0.80)	44.5	BWAR-38.0X6.0-100-*	RFC64-100-*	R-100
1"	39.0X7.5	A/BWAR-39.0X7.5-100-FC64-*	1.78 (0.81)	44.5	BWAR-39.0X7.5-100-*	RFC64-100-*	R-100
1-1/4"	30.0X3.0	A/BWAR-30.0X3.0-125-FC64-*	2.67 (1.21)	50.8	BWAR-30.0X3.0-125-*	RFC64-125-*	R-125
1-1/4"	30.0X4.0	A/BWAR-30.0X4.0-125-FC64-*	2.70 (1.23)	50.8	BWAR-30.0X4.0-125-*	RFC64-125-*	R-125
1-1/4"	30.0X5.0	A/BWAR-30.0X5.0-125-FC64-*	2.72 (1.24)	50.8	BWAR-30.0X5.0-125-*	RFC64-125-*	R-125
1-1/4"	38.0X4.0	A/BWAR-38.0X4.0-125-FC64-*	2.66 (1.21)	50.8	BWAR-38.0X4.0-125-*	RFC64-125-*	R-125
1-1/4"	38.0X5.0	A/BWAR-38.0X5.0-125-FC64-*	2.69 (1.22)	50.8	BWAR-38.0X5.0-125-*	RFC64-125-*	R-125
1-1/4"	38.0X6.0	A/BWAR-38.0X6.0-125-FC64-*	2.72 (1.24)	50.8	BWAR-38.0X6.0-125-*	RFC64-125-*	R-125
1-1/4"	42.0X3.0	A/BWAR-42.0X3.0-125-FC64-*	2.67 (1.21)	50.8	BWAR-42.0X3.0-125-*	RFC64-125-*	R-125
1-1/4"	42.0X4.0	A/BWAR-42.0X4.0-125-FC64-*	2.68 (1.22)	50.8	BWAR-42.0X4.0-125-*	RFC64-125-*	R-125
1-1/4"	42.2X3.6	A/BWAR-SCH40-125-FC64-*	2.68 (1.22)	50.8	BWAR-SCH40-125-*	RFC64-125-*	R-125
1-1/4"	42.2X4.9	A/BWAR-SCH80-125-FC64-*	2.68 (1.22)	50.8	BWAR-SCH80-125-*	RFC64-125-*	R-125
1-1/4"	42.2X6.4	A/BWAR-SCH160-125-FC64-*	2.68 (1.22)	50.8	BWAR-SCH160-125-*	RFC64-125-*	R-125
1-1/4"	42.2X9.7	A/BWAR-SCHXXS-125-FC64-*	2.83 (1.29)	50.8	BWAR-SCHXXS-125-*	RFC64-125-*	R-125
1-1/4"	46.0X8.5	A/BWAR-46.0X8.5-125-FC64-*	2.83 (1.29)	50.8	BWAR-46.0X8.5-125-*	RFC64-125-*	R-125

IMPORTANT NOTE: For 1-1/4" SAE 6000 PSI (ISO 6162-2) Flanges with M14 bolt requirements please add -M14 to the end of the part numbers above

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Adapter Body, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Adapter Body, Type 316.

Note: To Order A Retain Ring Flange with Threaded Holes, Replace FC with FT in the Part Number.

Ordering Example: A/BWAR-50.0X3.0-200-FC64-SS

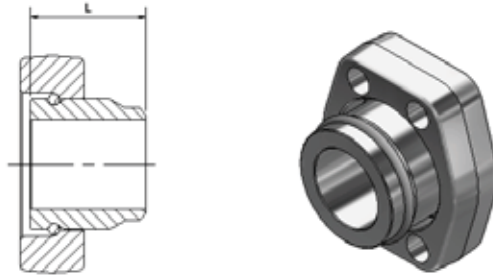
* Insert Material

3D step models available upon request

SAE 6000 PSI Butt Weld Adapter

Assembly Retain Ring Style with Clearance Holes, Metric

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Retain Ring Flange
- One (1) Weld Adapter Body
- One (1) Retain Ring

To be Ordered Separately:

- Bolt Kit (See Page H25)
- O-Ring Spacer (See Page H75)

A/BWAR - Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (mm) L	Weld Adapter Body Part Number	Flange Part Number	Retain Ring (Stainless Steel) Part Number
1-1/2"	38.0X4.0	A/BWAR-38.0X4.0-150-FC64-*	4.13 (1.88)	57.2	BWAR-38.0X4.0-150-*	RFC64-150-*	R-150
1-1/2"	38.0X5.0	A/BWAR-38.0X5.0-150-FC64-*	4.08 (1.85)	57.2	BWAR-38.0X5.0-150-*	RFC64-150-*	R-150
1-1/2"	38.0X6.0	A/BWAR-38.0X6.0-150-FC64-*	4.21 (1.91)	57.2	BWAR-38.0X6.0-150-*	RFC64-150-*	R-150
1-1/2"	42.0X3.0	A/BWAR-42.0X3.0-150-FC64-*	4.03 (1.83)	57.2	BWAR-42.0X3.0-150-*	RFC64-150-*	R-150
1-1/2"	42.0X4.0	A/BWAR-42.0X4.0-150-FC64-*	4.08 (1.85)	57.2	BWAR-42.0X4.0-150-*	RFC64-150-*	R-150
1-1/2"	48.3X3.7	A/BWAR-SCH40-150-FC64-*	4.18 (1.90)	57.2	BWAR-SCH40-150-*	RFC64-150-*	R-150
1-1/2"	48.3X5.1	A/BWAR-SCH80-150-FC64-*	4.11 (1.87)	57.2	BWAR-SCH80-150-*	RFC64-150-*	R-150
1-1/2"	48.3X7.1	A/BWAR-SCH160-150-FC64-*	4.43 (2.01)	57.2	BWAR-SCH160-150-*	RFC64-150-*	R-150
1-1/2"	48.3X10.2	A/BWAR-SCHXXS-150-FC64-*	4.37 (1.99)	57.2	BWAR-SCHXXS-150-*	RFC64-150-*	R-150
1-1/2"	50.0X3.0	A/BWAR-50.0X3.0-150-FC64-*	4.05 (1.84)	57.2	BWAR-50.0X3.0-150-*	RFC64-150-*	R-150
1-1/2"	50.0X5.0	A/BWAR-50.0X5.0-150-FC64-*	3.98 (1.81)	57.2	BWAR-50.0X5.0-150-*	RFC64-150-*	R-150
1-1/2"	56.0X8.5	A/BWAR-56.0X8.5-150-FC64-*	4.41 (2.00)	57.2	BWAR-56.0X8.5-150-*	RFC64-150-*	R-150
2"	50.0X3.0	A/BWAR-50.0X3.0-200-FC64-*	6.35 (2.89)	63.5	BWAR-50.0X3.0-200-*	RFC64-200-*	R-200
2"	50.0X5.0	A/BWAR-50.0X5.0-200-FC64-*	6.48 (2.95)	63.5	BWAR-50.0X5.0-200-*	RFC64-200-*	R-200
2"	50.0X6.0	A/BWAR-50.0X6.0-200-FC64-*	6.55 (2.98)	63.5	BWAR-50.0X6.0-200-*	RFC64-200-*	R-200
2"	60.0X3.0	A/BWAR-60.0X3.0-200-FC64-*	6.24 (2.84)	63.5	BWAR-60.0X3.0-200-*	RFC64-200-*	R-200
2"	60.0X5.0	A/BWAR-60.0X5.0-200-FC64-*	5.97 (2.71)	63.5	BWAR-60.0X5.0-200-*	RFC64-200-*	R-200
2"	60.0X6.0	A/BWAR-60.0X6.0-200-FC64-*	6.44 (2.92)	63.5	BWAR-60.0X6.0-200-*	RFC64-200-*	R-200
2"	60.0X8.0	A/BWAR-60.0X8.0-200-FC64-*	6.61 (3.00)	63.5	BWAR-60.0X8.0-200-*	RFC64-200-*	R-200
2"	60.3X3.9	A/BWAR-SCH40-200-FC64-*	6.40 (2.91)	63.5	BWAR-SCH40-200-*	RFC64-200-*	R-200
2"	60.3X5.5	A/BWAR-SCH80-200-FC64-*	6.50 (2.95)	63.5	BWAR-SCH80-200-*	RFC64-200-*	R-200
2"	60.3X8.7	A/BWAR-SCH160-200-FC64-*	6.67 (3.03)	63.5	BWAR-SCH160-200-*	RFC64-200-*	R-200
2"	60.3X11.1	A/BWAR-SCHXXS-200-FC64-*	6.71 (3.05)	63.5	BWAR-SCHXXS-200-*	RFC64-200-*	R-200
2"	66.0X8.5	A/BWAR-66.0X8.5-200-FC64-*	6.56 (2.98)	63.5	BWAR-66.0X8.5-200-*	RFC64-200-*	R-200

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

ZSS = Carbon Steel Flange with Stainless Steel Adapter Body, Type 316.

HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Adapter Body, Type 316.

Note: To Order A Retain Ring Flange with Threaded Holes, Replace FC with FT in the Part Number.

Ordering Example: A/BWAR-50.0X3.0-200-FC64-SS

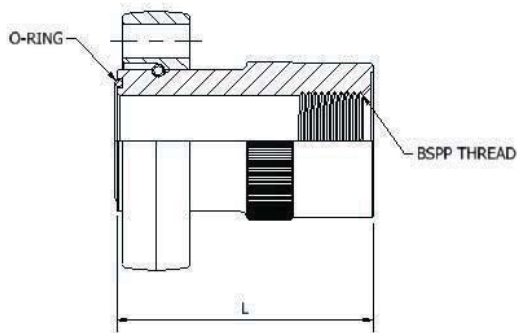
* Insert Material

SAE 6000

SAE 6000 PSI BSPP Female Thread Adapter

Complete Assembly

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Female Thread Adapter
- One (1) Retain Ring Flange
- One (1) Retain Ring
- One (1) Face O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H25)

A/FBTA - BSPP Female Thread Adapter Complete Assembly with Buna O-Ring							
Size (flange x thread)	Complete Assembly Part Number	Dimensions in (mm)	Thread Size	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)
		L	R				
1/2"x 1/4"	A/FBTA-050x025-FC64-*^-^	2.50 (63.5)	1/4"	OR^-3-909	0.95 (0.43)	FBTA-050x025-*^-^	0.52 (0.24)
3/4"x 1/2"	A/FBTA-075x050-FC64-*^-^	2.88 (73.0)	1/2"	OR^-3-913	1.79 (0.81)	FBTA-075x050-*^-^	0.97 (0.44)
1"x 3/4"	A/FBTA-100x075-FC64-*^-^	3.75 (95.3)	3/4"	OR^-3-916	3.14 (1.41)	FBTA-100x075-*^-^	1.98 (0.90)
1-1/4"x 1"	A/FBTA-125x100-FC64-*^-^	3.88 (98.6)	1"	OR^-3-918	4.14 (1.88)	FBTA-125x100-*^-^	2.28 (1.04)
1-1/2"x 1-1/4"	A/FBTA-150x125-FC64-*^-^	4.00 (101.6)	1-1/4"	OR^-3-924	5.97 (2.71)	FBTA-150x125-*^-^	2.83 (1.28)
2"x 1-1/2"	A/FBTA-200x150-FC64-*^-^	4.25 (108.0)	1-1/2"	OR^-3-928	8.49 (3.86)	FBTA-200x150-*^-^	3.67 (1.66)

Flange Option:

Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.
FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.
FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.
V = Viton.

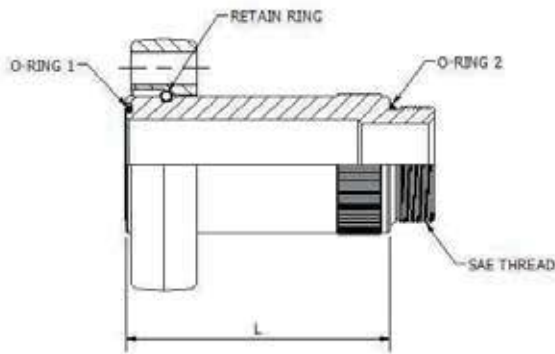
Ordering Example: A/FBTA-200x200-FC64-SS-V

Flange Option _____
* Insert Material _____
^ Insert O-Ring Type _____

SAE 6000 PSI SAE Male Thread Adapter

Complete Assembly

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Male Thread Adapter
- One (1) Retain Ring Flange
- One (1) Retain Ring
- One (1) Face O-Ring (O-Ring 1)
- One (1) Thread O-Ring (O-Ring 2)

To be Ordered Separately:

- Bolt Kit (See Page H25)

A/STA - SAE Male Thread Adapter Complete Assembly

Size (flange x thread)	Complete Assembly Part Number	Dimensions in (mm)	Thread Size UNF/UN-2A	O-Ring 1 (Buna) Part No.	O-Ring 2 (Buna) Part No.	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)
		L						
1/2" x 3/8"	A/STA-050x038-FC64-*^	2.63 (66.80)	9/16"-18	OR^3-909	OR^3-906	0.96 (0.44)	STA-050x038-*	0.50 (0.23)
1/2" x 1/2"	A/STA-050x050-FC64-*^	2.63 (66.80)	3/4"-16	OR^3-909	OR^3-908	0.94 (0.43)	STA-050x050-*	0.52 (0.24)
1/2" x 5/8"	A/STA-050x063-FC64-*^	2.63 (66.80)	7/8"-14	OR^3-909	OR^3-910	1.00 (0.45)	STA-050x063-*	0.57 (0.26)
1/2" x 3/4"	A/STA-050x075-FC64-*^	2.63 (66.80)	1 1/16"-12	OR^3-909	OR^3-912	1.12 (0.50)	STA-050x075-*	0.66 (0.30)
3/4" x 1/2"	A/STA-075x050-FC64-*^	2.75 (69.85)	3/4"-16	OR^3-913	OR^3-908	1.50 (0.68)	STA-075x050-*	1.00 (0.45)
3/4" x 3/4"	A/STA-075x075-FC64-*^	2.75 (69.85)	1 1/16"-12	OR^3-913	OR^3-912	1.57 (0.71)	STA-075x075-*	1.07 (0.49)
3/4" x 1"	A/STA-075x100-FC64-*^	2.75 (69.85)	1 5/16"-12	OR^3-913	OR^3-916	1.78 (0.81)	STA-075x100-*	1.15 (0.52)
1" x 3/4"	A/STA-100x075-FC64-*^	3.00 (76.20)	1 1/16"-12	OR^3-916	OR^3-912	1.88 (0.85)	STA-100x075-*	1.25 (0.57)
1" x 1"	A/STA-100x100-FC64-*^	3.00 (76.20)	1 5/16"-12	OR^3-916	OR^3-916	1.93 (0.88)	STA-100x100-*	1.30 (0.59)
1" x 1-1/4"	A/STA-100x125-FC64-*^	3.00 (76.20)	1 5/8"-12	OR^3-916	OR^3-920	2.12 (0.96)	STA-100x125-*	1.49 (0.68)
1-1/4" x 1"	A/STA-125x100-FC64-*^	3.25 (82.55)	1 5/16"-12	OR^3-918	OR^3-916	2.65 (1.20)	STA-125x100-*	1.75 (0.79)
1-1/4" x 1-1/4"	A/STA-125x125-FC64-*^	3.25 (82.55)	1 5/8"-12	OR^3-918	OR^3-920	2.72 (1.23)	STA-125x125-*	1.82 (0.83)
1-1/4" x 1-1/2"	A/STA-125x150-FC64-*^	3.25 (82.55)	1 7/8"-12	OR^3-918	OR^3-924	2.93 (1.33)	STA-125x150-*	2.03 (0.92)
1-1/2" x 1-1/4"	A/STA-150x125-FC64-*^	4.25 (107.95)	1 5/8"-12	OR^3-924	OR^3-920	3.84 (1.74)	STA-150x125-*	2.94 (1.33)
1-1/2" x 1-1/2"	A/STA-150x150-FC64-*^	4.25 (107.95)	1 7/8"-12	OR^3-924	OR^3-924	4.32 (1.96)	STA-150x150-*	2.97 (1.35)
1-1/2" x 2"	A/STA-150x200-FC64-*^	4.25 (107.95)	2 1/2"-12	OR^3-924	OR^3-932	4.89 (2.22)	STA-150x200-*	3.54 (1.61)
2" x 1-1/2"	A/STA-200x150-FC64-*^	4.38 (111.25)	1 7/8"-12	OR^3-928	OR^3-924	5.78 (2.62)	STA-200x150-*	3.76 (1.71)
2" x 2"	A/STA-200x200-FC64-*^	4.38 (111.25)	2 1/2"-12	OR^3-928	OR^3-932	5.98 (2.71)	STA-200x200-*	3.96 (1.80)

Flange Option:

Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.

FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.

FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316. Body Only

SSA = Stainless Steel, Type 316. All SS including flange

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/STA-200x150-FC64-SS-V

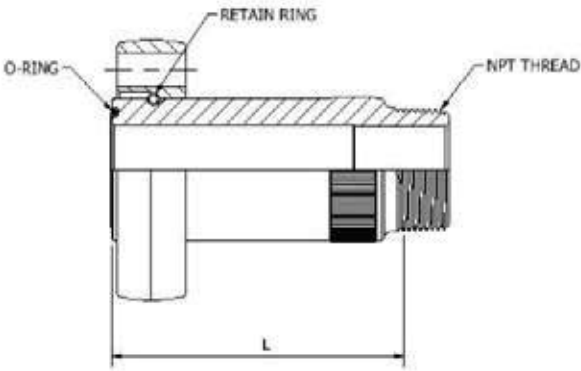


SAE 6000

SAE 6000 PSI NPT Male Thread Adapter

Complete Assembly

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Male Thread Adapter
- One (1) Retain Ring Flange
- One (1) Retain Ring
- One (1) Face O-Ring (O-Ring 1)

To be Ordered Separately:

- Bolt Kit (See Page H25)

A/NTA - NPT Male Thread Adapter – Complete Assembly with Buna O-Ring							
Size (flange x thread)	Complete Assembly Part Number	Dimension in (mm) L	NPTF Thread (Dryseal)	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)
1/2"x 1/2"	A/NTA-050x050-FC64-*^-^	2.88 (73.15)	1/2"-14	OR*-3-909	1.1 (.50)	NTA-050x050-*^-^	.54 (.25)
1/2"x 3/4"	A/NTA-050x075-FC64-*^-^	2.86 (72.64)	3/4"-14	OR*-3-909	1.25 (.56)	NTA-050x075-*^-^	.69 (.31)
3/4"x 1/2"	A/NTA-075x050-FC64-*^-^	3.00 (76.2)	1/2"-14	OR*-3-913	2.03 (.93)	NTA-075x050-*^-^	1.06 (.48)
3/4"x 3/4"	A/NTA-075x075-FC64-*^-^	2.98 (75.69)	3/4"-14	OR*-3-913	2.04 (.93)	NTA-075x075-*^-^	1.07 (.49)
3/4"x 1"	A/NTA-075x100-FC64-*^-^	3.07 (77.98)	1"-11-1/2	OR*-3-913	2.07 (.94)	NTA-075x100-*^-^	1.10 (.50)
1"x 3/4"	A/NTA-100x075-FC64-*^-^	3.23 (82.04)	3/4"-14	OR*-3-916	2.37 (1.08)	NTA-100x075-*^-^	1.10 (.50)
1"x 1"	A/NTA-100x100-FC64-*^-^	3.32 (84.33)	1"-11-1/2	OR*-3-916	2.52 (1.15)	NTA-100x100-*^-^	1.25 (.57)
1"x 1-1/4"	A/NTA-100x125-FC64-*^-^	3.33 (84.58)	1-1/4"-11-1/2	OR*-3-916	2.72 (1.24)	NTA-100x125-*^-^	1.45 (.66)
1-1/4"x 1"	A/NTA-125x100-FC64-*^-^	3.57 (90.68)	1"-11-1/2	OR*-3-918	3.33 (1.51)	NTA-125x100-*^-^	1.44 (.66)
1-1/4"x 1-1/4"	A/NTA-125x125-FC64-*^-^	3.58 (90.93)	1-1/4"-11-1/2	OR*-3-918	3.7 (1.68)	NTA-125x125-*^-^	1.81 (.82)
1-1/4"x 1-1/2"	A/NTA-125x150-FC64-*^-^	3.61 (91.69)	1-1/2"-11-1/2	OR*-3-918	3.92 (1.78)	NTA-125x150-*^-^	2.03 (.92)
1-1/2"x 1-1/4"	A/NTA-150x125-FC64-*^-^	4.58 (116.33)	1-1/4"-11-1/2	OR*-3-924	5.49 (2.49)	NTA-150x125-*^-^	2.17 (.98)
1-1/2"x 1-1/2"	A/NTA-150x150-FC64-*^-^	4.61 (117.09)	1-1/2"-11-1/2	OR*-3-924	6.27 (2.84)	NTA-150x150-*^-^	2.95 (1.33)
1-1/2" x 2"	A/NTA-150x200-FC64-*^-^	4.63 (117.60)	2"-11-1/2	OR*-3-924	6.85 (3.11)	NTA-150x200-*^-^	3.53 (1.60)
2"x 1-1/2"	A/NTA-200x150-FC64-*^-^	4.61 (117.09)	1-1/2"-11-1/2	OR*-3-928	8.02 (3.64)	NTA-200x150-*^-^	3.02 (1.37)
2"x 2"	A/NTA-200x200-FC64-*^-^	4.63 (117.60)	2"-11-1/2	OR*-3-928	8.95 (4.06)	NTA-200x200-*^-^	3.95 (1.79)

♦ The seal for the 2" BSPP thread consists of a self-centering bonded seal.

Flange Option:

Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.

FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.

FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316. Body Only

SSA = Stainless Steel, Type 316. All Including Flange

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

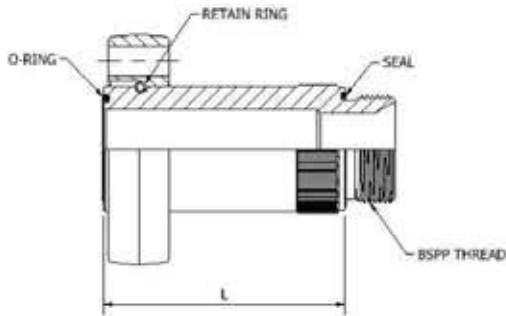
V = Viton.

Ordering Example: A/NTA-200x150-FC64-SS-V



SAE 6000 PSI BSPP Male Thread Adapter Complete Assembly

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Male Thread Adapter
- One (1) Retain Ring Flange
- One (1) Retain Ring
- One (1) Face O-Ring (O-Ring 1)
- One (1) Thread Seal (Seal 2)

To be Ordered Separately:

- Bolt Kit (See Page H25)

A/BTA - BSPP Male Thread Adapter Complete Assembly with Buna O-Rings

Size (flange x thread)	Complete Assembly Part Number	Dimension in (mm) L	Thread Size	O-Ring 1 (Buna) Part Number	Seal 2 (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)
1/2" x 1/2"	A/BTA-050x050-FC64-*^	2.63 (66.80)	1/2"-14	OR*-3-909	DR*-G050	0.97 (.44)	BTA-050x050-*^	.54 (.25)
1/2" x 3/4"	A/BTA-050x075-FC64-*^	2.63 (66.80)	3/4"-14	OR*-3-909	DR*-G075	1.12 (.51)	BTA-050x075-*^	.69 (.31)
3/4" x 1/2"	A/BTA-075x050-FC64-*^	2.75 (69.85)	1/2"-14	OR*-3-913	DR*-G050	1.89 (.86)	BTA-075x050-*^	1.06 (.48)
3/4" x 3/4"	A/BTA-075x075-FC64-*^	2.75 (69.85)	3/4"-14	OR*-3-913	DR*-G075	1.90 (.86)	BTA-075x075-*^	1.07 (.49)
3/4" x 1"	A/BTA-075x100-FC64-*^	2.75 (69.85)	1"-11 1/2	OR*-3-913	DR*-G100	1.93 (.88)	BTA-075x100-*^	1.10 (.50)
1" x 3/4"	A/BTA-100x075-FC64-*^	3.00 (76.20)	3/4"-14	OR*-3-916	DR*-G075	2.26 (1.03)	BTA-100x075-*^	1.10 (.50)
1" x 1"	A/BTA-100x100-FC64-*^	3.00 (76.20)	1"-11 1/2	OR*-3-916	DR*-G100	2.41 (1.09)	BTA-100x100-*^	1.25 (.57)
1" x 1-1/4"	A/BTA-100x125-FC64-*^	3.00 (76.20)	1-1/4"-11 1/2	OR*-3-916	DR*-G125	2.61 (1.18)	BTA-100x125-*^	1.45 (.66)
1-1/4" x 1"	A/BTA-125x100-FC64-*^	3.25 (82.55)	1"-11 1/2	OR*-3-918	DR*-G100	3.30 (1.50)	BTA-125x100-*^	1.44 (.65)
1-1/4" x 1-1/4"	A/BTA-125x125-FC64-*^	3.25 (82.55)	1-1/4"-11 1/2	OR*-3-918	DR*-G125	3.67 (1.67)	BTA-125x125-*^	1.81 (.82)
1-1/4" x 1-1/2"	A/BTA-125x150-FC64-*^	3.25 (82.55)	1-1/2"-11 1/2	OR*-3-918	DR*-G150	3.89 (1.77)	BTA-125x150-*^	2.03 (.92)
1-1/2" x 1-1/4"	A/BTA-150x125-FC64-*^	4.25 (107.95)	1-1/4"-11 1/2	OR*-3-924	DR*-G125	5.31 (2.41)	BTA-150x125-*^	2.17 (.99)
1-1/2" x 1-1/2"	A/BTA-150x150-FC64-*^	4.25 (107.95)	1-1/2"-11 1/2	OR*-3-924	DR*-G150	6.09 (2.76)	BTA-150x150-*^	2.95 (1.34)
1-1/2" x 2"	A/BTA-150x200-FC64-*^	4.25 (107.95)	2"-11 1/2	OR*-3-924	BS*-3236	6.67 (3.03)	BTA-150x200-*^	3.53 (1.60)
2" x 1-1/2"	A/BTA-200x150-FC64-*^	4.38 (111.25)	1-1/2"-11 1/2	OR*-3-928	DR*-G150	7.84 (3.56)	BTA-200x150-*^	3.02 (1.37)
2" x 2"	A/BTA-200x200-FC64-*^	4.38 (111.25)	2"-11 1/2	OR*-3-928	BS*-3236	8.77 (3.98)	BTA-200x200-*^	3.95 (1.79)

♦ The seal for the 2" BSPP thread consists of a self-centering bonded seal.

Flange Option:

Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.

FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.

FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316. Body Only

SSA = Stainless Steel, Type 316. All Including Flange

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/BTA-200x150-FC64-SS-V

Flange Option

* Insert Material

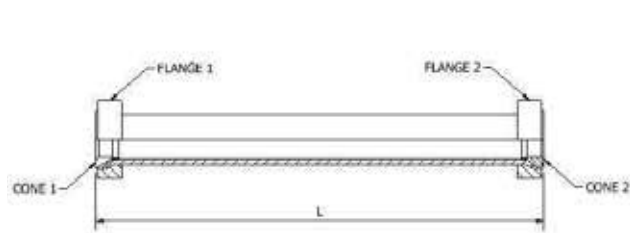
^ Insert O-Ring Type

3D step models available upon request

SAE 6000

SAE 6000 PSI Flare Flange Pipe Assembly, NPS

SAE J518 Code 62 (ISO 6162-2) Typical PAF Assembly



- Complete Flange Set Includes:
- One (1) length of clean pipe
 - Two (2) flare flanges
 - Two (2) cones

		Code	PAF	Pipe & Cone Material	Pipe Size & Schedule	Flange 1	Flange 2	Cone 1	Cone 2	Length	Options
Bent Pipe Assembly - Flared		PAF									
Pipe & Cone Material	Carbon Steel	TMP52CD	52								
	Stainless Steel	TMP304SS	304								
		TMP316SS	316								
		♦TMP2205SS	2205								
Pipe Size	1/2"	SCH40-050									
		SCH80-050									
	3/4"	SCH40-075									
		SCH80-075									
	1"	SCH40-100									
		SCH80-100									
	1-1/4"	SCH40-125									
		SCH80-125									
	1-1/2"	SCH40-150									
		SCH80-150									
Flange Type	Carbon Steel	FFC64 SAE Code 62 W/Clearance Holes	FC64								
		FTM64 SAE Code 62 W/TClearance Holes	FT64								
Cone Type	Cone - Flat Face	CF									
	Cone - 'O' Ring Face	CO									
Length	L2	Specify (in.)									
Options	Viton	V									
	Painted (Specify)	P									
	Complete Stainless Steel Assembly: (including flanges)	SS									

TMP2205SS PIPE IS ONLY AVAILABLE UPON REQUEST

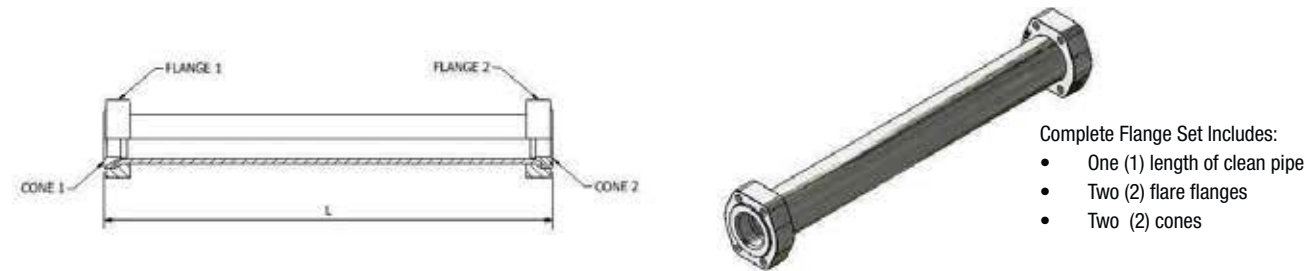
PART Number (EXAMPLE): PAF/52 - SCH80-100 - FC64 - FC64 - CO - CF - 240

ASSEMBLY WORKING PRESSURE RATINGS ARE SUBJECT TO THE LESSER OF THE FLANGE OR PIPE RATINGS

3D step models available upon request

SAE 6000 PSI Flare Flange Pipe Assembly, Metric

SAE J518 Code 62 (ISO 6162-2) Typical PAF Assembly



		Code	PAF	Pipe & Cone Material	Pipe Size & Schedule	Flange 1	Flange 2	Cone 1	Cone 2	Length	Options
Bent Pipe Assembly - Flared		PAF									
Pipe & Cone Material Carbon Steel	TMP52CD	52									
	TMP37CD	37									
Pipe & Cone Material Stainless Steel	TMP304SS	304									
	TMP316SS	316									
	♦TMP2205SS	2205									
Pipe Size	1/2"	20x3.0-050 25x3.0-050									
	3/4"	30x3.0-075 30x4.0-075									
	1"	38x4.0-100 38x5.0-100									
	1-1/4"	42x4.0-125 42x5.0-125									
	1-1/2"	50x3.0-150 50x5.0-150									
	2"	60x5.0-200 60x6.0-200									
Flange Type Carbon Steel	FFCM34 SAE Code 62 W/Clearance Holes	FCM64									
	FTM64 SAE Code 62 W/Threaded Holes	FTM64									
Cone Type	Cone - Flat Face	CF									
	Cone - 'O' Ring Face	CO									
Length	L2	Specify (mm)									
Options	Viton	V									
	Painted (Specify)	P									
	Complete Stainless Steel Assembly: (including flanges)	SS									

♦TMP2205SS PIPE IS ONLY AVAILABLE UPON REQUEST
PART Number (EXAMPLE): PAF/52 - 38x4.0 - 100 - FCM64 - FCM64 - CO - CF - 6000

ASSEMBLY WORKING PRESSURE RATINGS ARE SUBJECT TO THE LESSER OF THE FLANGE OR PIPE RATINGS

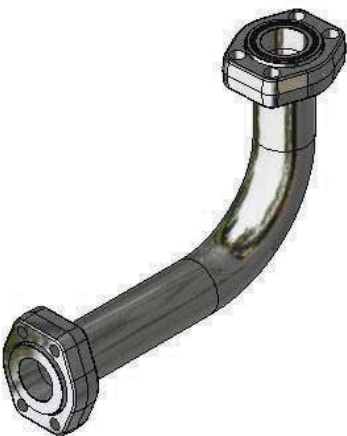
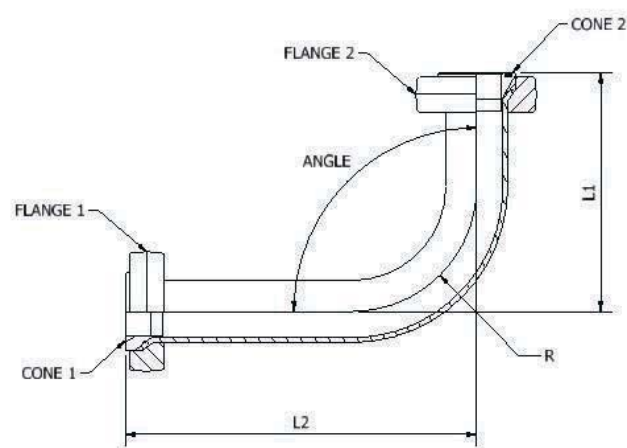
3D step models available upon request

SAE 6000

SAE 6000 PSI Flare Flange Bent Pipe Assembly, NPS

Typical BPAF Assembly

- Complete assembly consists of:
- One (1) length of bent clean pipe
 - Two (2) flare flanges

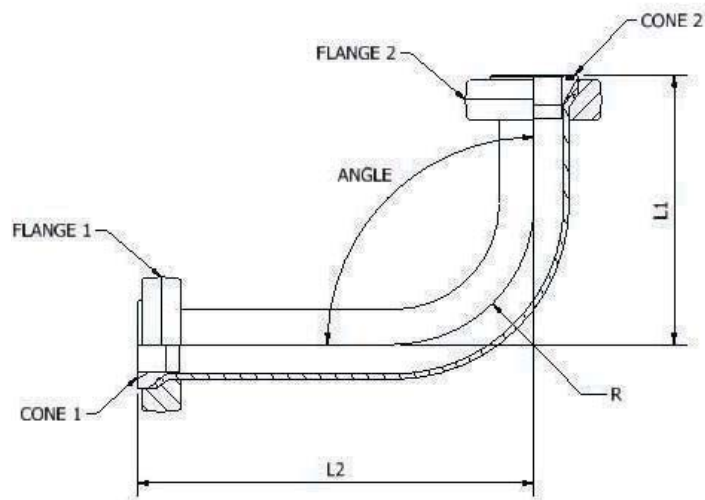


Size	R1		R2		R3	
	Dimensions (in)		Dimensions (in)		Dimensions (in)	
	L(min.)	R	L(min.)	R	L(min.)	R
1/2"	4.50	1.68	5.50	2.52	6.75	3.88
3/4"	5.00	2.10	6.00	3.15	7.00	4.25
1"	5.50	2.63	7.00	3.95	7.75	4.88
1-1/4"	6.38	3.32	8.00	4.98	8.63	5.63
1-1/2"	7.50	3.80	9.25	5.70	11.75	8.19
2"	8.50	4.75	10.75	7.13	13.00	9.44

Note: OTHER RADII AVAILABLE (CONSULT FACTORY)

SAE 6000 PSI Flare Flange Bent Pipe Assembly, Metric

Typical BPAF Assembly



- Complete assembly consists of:
- One (1) length of bent clean pipe
 - Two (2) flare flanges
 - Two (2) cones

Size	R1		R2		R3	
	Dimensions (mm)		Dimensions (mm)		Dimensions (mm)	
	L(min.)	R	L(min.)	R	L(min.)	R
1/2"	126	50	151	75	176	100
3/4"	134	60	164	90	194	120
1"	153	76	191	114	229	152
1-1/4"	162	84	204	126	246	168
1-1/2"	194	100	244	150	294	200
2"	215	120	275	180	335	240

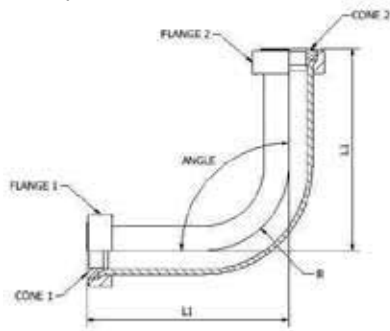
Note: OTHER RADII AVAILABLE (CONSULT FACTORY)

SAE 6000

SAE 6000 PSI Flare Flange Bend Elbow

Complete Assembly, NPS

SAE J518 Code 62 (ISO 6162-2)



A/FFE - Flare Flange Bend Elbow – Complete Assembly, NPS							
Size	Complete Assembly Part Number	R1 Bend Radius (in)		R2 Bend Radius (in)		R3 Bend Radius (in)	
		R	L1	R	L1	R	L1
1/2"	A/FFE-SCH40-050-FC64-FC64-CO-CO-●-*~^	1.68	4.5	2.52	5.5	3.875	6.75
1/2"	A/FFE-SCH80-050-FC64-FC64-CO-CO-●-*~^	1.68	4.5	2.52	5.5	3.875	6.75
3/4"	A/FFE-SCH40-075-FC64-FC64-CO-CO-●-*~^	2.1	5.0	3.15	6.0	4.25	7.0
3/4"	A/FFE-SCH80-075-FC64-FC64-CO-CO-●-*~^	2.1	5.0	3.15	6.0	4.25	7.0
1"	A/FFE-SCH40-100-FC64-FC64-CO-CO-●-*~^	2.63	5.5	3.95	7.0	4.875	7.75
1"	A/FFE-SCH80-100-FC64-FC64-CO-CO-●-*~^	2.63	5.5	3.95	7.0	4.875	7.75
1-1/4"	A/FFE-SCH40-125-FC64-FC64-CO-CO-●-*~^	3.32	6.375	4.98	8.0	5.625	8.625
1-1/4"	A/FFE-SCH80-125-FC64-FC64-CO-CO-●-*~^	3.32	6.375	4.98	8.0	5.625	8.625
1-1/2"	A/FFE-SCH40-150-FC64-FC64-CO-CO-●-*~^	3.8	7.5	5.7	9.25	8.1875	11.75
1-1/2"	A/FFE-SCH80-150-FC64-FC64-CO-CO-●-*~^	3.8	7.5	5.7	9.25	8.1875	11.75
1-1/2"	A/FFE-SCH160-150-FC64-F634-CO-CO-●-*~^	3.8	7.5	5.7	9.25	8.1875	11.75
2"	A/FFE-SCH40-200-FC64-FC64-CO-CO-●-*~^	4.75	8.5	7.125	10.75	9 7/16	13
2"	A/FFE-SCH80-200-FC64-FC64-CO-CO-●-*~^	4.75	8.5	7.125	10.75	9 7/16	13
2"	A/FFE-SCH160-200-FC64-FC64-CO-CO-●-*~^	4.75	8.5	7.125	10.75	9 7/16	13

Flange Options:

Standard, FC34 = SAE 3000 PSI Code 61 (ISO 6162-1) Clearance Flange.
FT34 = SAE 3000 PSI Code 61 (ISO 6162-1) UNC Threaded Flange.
FTM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Metric Threaded Flange.

Cone Options:

Standard, CO = O-Ring Faced Cone.
CF = Flat Faced Cone.

•Bend Radius Options (Other radii available, consult factory):

R1
R2
R3

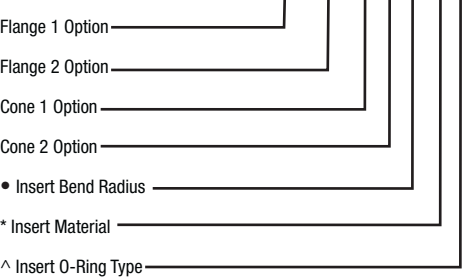
* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.
V = Viton.

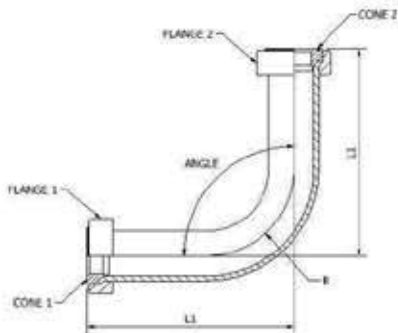
Ordering Example: A/FFE-SCH40-200-FC64-FC64-CO-CO-R1-SS-V



SAE 6000 PSI Flare Flange Bend Elbow

Complete Assembly, Metric

SAE J518 Code 62 (ISO 6162-2)



COMPLETE ASSEMBLY CONSISTS OF:

- FLARE FLANGE 90° ELBOW BODY
- TWO (2) FLARE FLANGES
- TWO (2) CONES

A/FFEM - Flare Flange Bend Elbow Complete Assembly, Metric

Size	Complete Assembly Part Number	R1 Bend Radius (mm)		R2 Bend Radius (mm)		R3 Bend Radius (mm)	
		R	L1	R	L1	R	L1
1/2"	A/FFEM-20x3.0-050-FCM64-FCM64-CO-CO-SS-V	40	116	60	136	80	156
1/2"	A/FFEM-25x3.0-050-FCM64-FCM64-CO-CO-SS-V	50	126	75	151	100	176
3/4"	A/FFEM-30x3.0-075-FCM64-FCM64-CO-CO-SS-V	50	134	90	149	120	194
3/4"	A/FFEM-30x4.0-075-FCM64-FCM64-CO-CO-SS-V	60	134	90	164	120	194
1"	A/FFEM-38x4.0-100-FCM64-FCM64-CO-CO-SS-V	76	153	114	167	152	229
1"	A/FFEM-38x5.0-100-FCM64-FCM64-CO-CO-SS-V	76	153	114	191	152	229
1-1/4"	A/FFEM-42x4.0-125-FCM64-FCM64-CO-CO-SS-V	84	162	126	192	168	246
1-1/4"	A/FFEM-42x5.0-125-FCM64-FCM64-CO-CO-SS-V	84	162	126	204	168	246
1-1/2"	A/FFEM-50x5.0-150-FCM64-FCM64-CO-CO-SS-V	100	194	150	220	200	294
1-1/2"	A/FFEM-50x6.0-150-FCM64-FCM64-CO-CO-SS-V	100	194	150	244	200	294
1-1/2"	A/FFEM-56x8.5-150-FCM64-FCM64-CO-CO-SS-V	100	194	150	244	200	294
2"	A/FFEM-60x5.0-200-FCM64-FCM64-CO-CO-SS-V	120	215	180	245	240	335
2"	A/FFEM-60x6.0-200-FCM64-FCM64-CO-CO-SS-V	120	215	180	275	240	335
2"	A/FFEM-66x8.5-200-FCM64-FCM64-CO-CO-SS-V	120	215	180	275	240	335

Flange Options:

Standard, FCM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.

FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.

FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

Cone Options:

Standard, CO = O-Ring Faced Cone.

CF = Flat Faced Cone.

•Bend Radius Options (Other radii available, consult factory):

R1

R2

R3

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

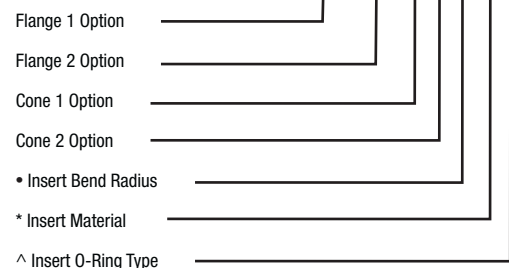
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/FFEM-60x5.0-200-FCM64-FCM64-CO-CO-R1-SS-V

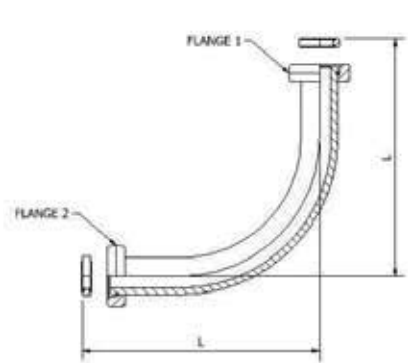


3D step models available upon request

SAE 6000

SAE 6000 PSI Retain Ring Flange Bend Elbow

SAE J518 Code 62 (ISO 6162-2)



- Complete Flange Set Includes:
- One (1) Retain Ring Flange Bend Elbow Body
 - Two (2) Retain Ring Flanges
 - Two (2) Retain Rings
 - Two (2) O-Ring Spacers

A/RFE - Retain Ring Flange Bend Elbow – Complete Assembly						
Size	Complete Assembly Part Number	Dimensions in (mm)	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		L				
1-1/2"	A/RFE-150-FC64-*_-^	13.00 (330.20)	14.98 (6.80)	RFE-150-*_-^	11.50 (5.22)	6000 (420)
2"	A/RFE-200-FC64-*_-^	14.50 (368.30)	20.47 (9.30)	RFE-200-*_-^	15.59 (7.07)	6000 (420)

Flange Option:

Standard, FC64 = SAE 6000 PSI Code 61 (ISO 6162-2) Clearance Flange.
FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.
FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

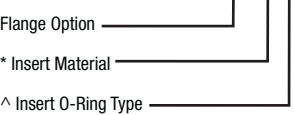
*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring Type:

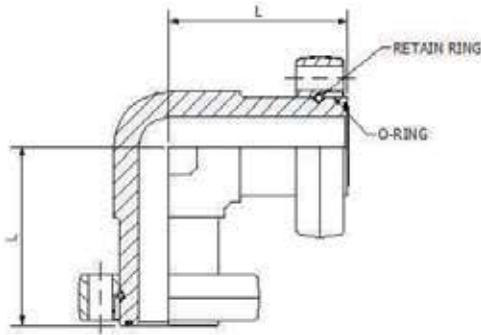
Standard, No Designation = Buna Nitrile.
V = Viton.

Ordering Example: A/RFE-200-FC64-SS-V



SAE 6000 Retain Ring Flange Elbow Complete Assembly

SAE J518 Code 62 (ISO 6162-2)



Complete Flange Set Includes:

- One (1) Flange Elbow
- Two (2) Retain Ring Flanges
- Two (2) Retain Rings
- Two (2) Face O-Rings

To be Ordered Separately:

- Bolt Kit
- See page H25

A/RRFE - Retain Ring Flange Elbow – Complete Assembly with Buna O-Ring

Size	Complete Assembly Part Number	Dimensions in (mm)	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		L					
1/2"	A/RRFE-050-FC64-*-*^	2.40 (61.0)	OR^--3-909	2.02 (0.92)	RRFE-050-*-*^	1.10 (0.50)	6000 (420)
3/4"	A/RRFE-075-FC64-*-*^	2.61 (66.2)	OR^--3-913	3.68 (1.67)	RRFE-075-*-*^	1.94 (0.88)	6000 (420)
1"	A/RRFE-100-FC64-*-*^	2.81 (71.4)	OR^--3-916	4.73 (2.15)	RRFE-100-*-*^	2.26 (1.03)	6000 (420)
1-1/4"	A/RRFE-125-FC64-*-*^	3.22 (81.8)	OR^--3-918	7.26 (3.29)	RRFE-125-*-*^	3.29 (1.49)	6000 (420)
1-1/2"	A/RRFE-150-FC64-*-*^	4.01 (101.9)	OR^--3-924	12.18 (5.52)	RRFE-150-*-*^	6.08 (2.76)	6000 (420)
2"	A/RRFE-200-FC64-*-*^	4.40 (111.8)	OR^--3-928	18.74 (8.5)	RRFE-200-*-*^	7.62 (3.46)	6000 (420)

Flange Option:

Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.

FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.

FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

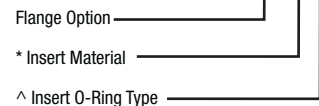
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/RRFE-200-FC64-SS-V

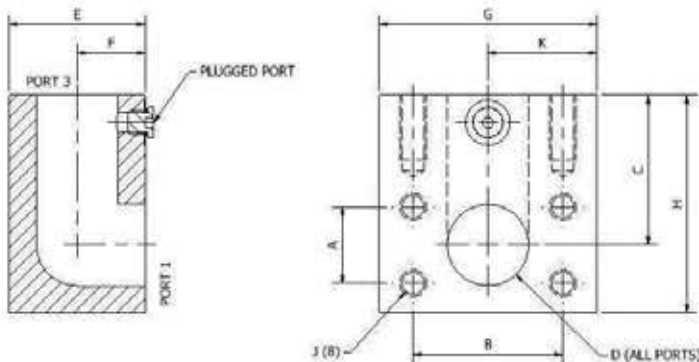


SAE 6000

SAE 6000 PSI Block Elbow

SAE J518 Code 62 (ISO 6162-2) Flange Style

A



BE64 - Block Elbow Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size	Block Elbow Part Number	Dimensions (in)									Thread UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	F	G	H	K			
1/2"	BE64-050-*	0.72	1.59	1.88	0.50	2.00	1.00	2.50	2.50	1.25	5/16"-18	3.10	6000 (420)
3/4"	BE64-075-*	0.94	2.00	2.25	0.75	2.00	1.00	3.00	3.25	1.50	3/8"-16	4.74	6000 (420)
1"	BE64-100-*	1.09	2.25	2.50	0.94	2.25	1.13	3.00	4.00	1.50	7/16"-14	6.42	6000 (420)
1-1/4"	BE64-125-*	1.25	2.63	2.75	1.25	2.50	1.25	4.00	4.00	2.00	1/2"-13	9.18	6000 (420)
1-1/2"	BE64-150-*	1.44	3.13	3.00	1.50	3.00	1.50	4.00	4.50	2.00	5/8"-11	11.66	6000 (420)
2"	BE64-200-*	1.75	3.81	3.38	1.94	3.00	1.50	5.00	5.00	2.50	3/4"-10	14.97	6000 (420)

BEM64 - Block Elbow Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric

Size	Block Elbow Part Number	Dimensions (mm)									Thread	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	F	G	H	K			
1/2"	BEM64-050-*	18.3	40.4	47.8	12.7	50.8	25.4	63.5	63.5	31.8	M8 x 1.25	1.41	6000 (420)
3/4"	BEM64-075-*	23.9	50.8	57.2	19.1	50.8	25.4	76.2	82.6	38.1	M10 x 1.50	2.15	6000 (420)
1"	BEM64-100-*	27.7	57.2	63.5	23.9	57.2	28.7	76.2	101.6	38.1	M12 x 1.75	2.92	6000 (420)
1-1/4"	BEM64-125-*	31.8	66.8	69.9	31.8	63.5	31.8	101.6	101.6	50.8	M12 x 1.75	4.17	6000 (420)
1-1/4" (2)	BEM64-125-M14-*	31.8	66.8	69.9	31.8	63.5	31.8	101.6	101.6	50.8	M14 x 2.00	4.17	6000 (420)
1-1/2"	BEM64-150-*	36.6	79.5	76.2	38.1	76.2	38.1	101.6	114.3	50.8	M16 x 2.00	5.30	6000 (420)
2"	BEM64-200-*	44.5	96.8	85.9	49.3	76.2	38.1	127.0	127.0	63.5	M20 x 2.50	6.80	6000 (420)

Materials:

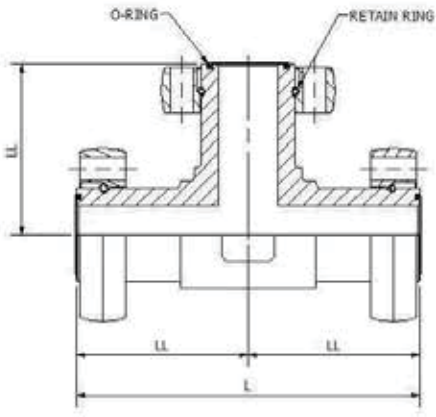
Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

Ordering Example: BE64-200-SS

* Insert Material _____

SAE 6000 PSI Flange Tee Complete Assembly

SAE J518 Code 62 (ISO 6162-2)



- Complete Flange Set Includes:
- One (1) Flange Tee
 - Three (3) Retain Ring Flanges
 - Three (3) Retain Rings
 - Three (3) Face O-Rings

To be Ordered Separately:

- Bolt Kit

See page H25

A/RRFT - Flange Tee Complete Assembly Complete with Buna O-Ring								
Size	Complete Assembly Part Number	Dimensions in (mm)		O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		L	LL					
1/2"	A/RRFT-050-FC64-*-*^	4.81 (122.2)	2.41 (112.01)	OR^--3-909	3.02 (1.37)	RRFT-050-*-*^	1.46 (0.66)	6000 (420)
3/4"	A/RRFT-075-FC64-*-*^	5.22 (132.6)	2.61 (66.30)	OR^--3-913	5.85 (2.65)	RRFT-075-*-*^	2.61 (1.18)	6000 (420)
1"	A/RRFT-100-FC64-*-*^	5.62 (142.7)	2.81 (71.4)	OR^--3-916	6.96 (3.16)	RRFT-100-*-*^	2.91 (1.32)	6000 (420)
1 1/4"	A/RRFT-125-FC64-*-*^	6.45 (163.8)	3.22 (81.8)	OR^--3-918	11.55 (5.24)	RRFT-125-*-*^	4.89 (2.22)	6000 (420)
1 1/2"	A/RRFT-150-FC64-*-*^	8.02 (203.7)	4.01 (101.9)	OR^--3-924	18.30 (8.30)	RRFT-150-*-*^	8.10 (3.67)	6000 (420)
2"	A/RRFT-200-FC64-*-*^	8.81 (223.8)	4.40 (111.8)	OR^--3-928	27.30 (12.38)	RRFT-200-*-*^	9.90 (4.49)	6000 (420)

Flange Option:
Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.
FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.
FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

*** Materials:**
Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring Type:
Standard, No Designation = Buna Nitrile.
V = Viton.

Ordering Example: A/RRFT-200-FC64-SS-V

Flange Option _____

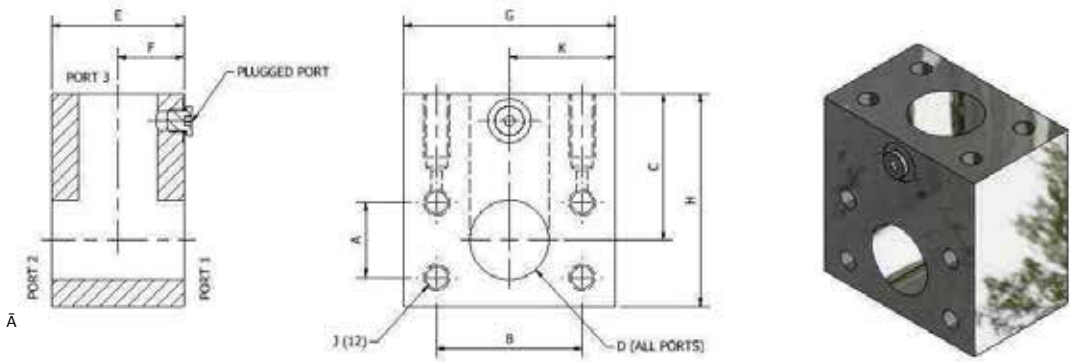
* Insert Material _____

^ Insert O-Ring Type _____

SAE 6000

SAE 6000 PSI Block Tee

SAE J518 Code 62 (ISO 6162-2) Flange Style



BT64 - Block Tee Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size	Block Tee Part No	Dimensions (in)									Thread UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	F	G	H	K			
1/2"	BT64-050-*	0.72	1.59	1.88	0.50	2.00	1.00	2.50	2.50	1.25	5/16"-18	3.05 (1.38)	6000 (420)
3/4"	BT64-075-*	0.94	2.00	2.25	0.75	2.00	1.00	3.00	3.25	1.50	3/8"-16	4.66 (2.11)	6000 (420)
1"	BT64-100-*	1.09	2.25	2.50	0.94	2.25	1.13	3.00	4.00	1.50	7/16"-14	6.20 (2.81)	6000 (420)
1-1/4"	BT64-125-*	1.25	2.63	2.75	1.25	2.50	1.25	4.00	4.00	2.00	1/2"-13	8.86 (4.02)	6000 (420)
1-1/2"	BT64-150-*	1.44	3.13	3.00	1.50	3.00	1.50	4.00	4.50	2.00	5/8"-11	11.04 (5.01)	6000 (420)
2"	BT64-200-*	1.75	3.81	3.38	1.94	3.00	1.50	5.00	5.00	2.50	3/4"-10	14.41 (6.54)	6000 (420)

BTM64 - Block Tee Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric

Size (inch)	Block Tee Part No	Dimensions (mm)									Thread	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	F	G	H	K			
1/2"	BTM64-050-*	18.3	40.4	47.8	12.7	50.8	25.4	63.5	63.5	31.8	M8 X 1.25	3.07 (1.39)	6000 (420)
3/4"	BTM64-075-*	23.9	50.8	57.2	19.1	50.8	25.4	76.2	82.6	38.1	M10 X 1.50	4.67 (2.12)	6000 (420)
1"	BTM64-100-*	27.7	57.2	63.5	23.9	57.2	28.7	76.2	101.6	38.1	M12 X 1.75	6.22 (2.82)	6000 (420)
1-1/4"	BTM64-125-*	31.8	66.8	69.9	31.8	63.5	31.8	101.6	101.6	50.8	M12 X 1.75	8.88 (4.03)	6000 (420)
1-1/4" ⁽²⁾	BTM64-125-M14-*	31.8	66.8	69.9	31.8	63.5	31.8	101.6	101.6	50.8	M14 x 2.00	8.88 (4.03)	6000 (420)
1-1/2"	BTM64-150-*	36.6	79.5	76.2	38.1	76.2	38.1	101.6	114.3	50.8	M16 X 2.00	11.07 (5.02)	6000 (420)
2"	BTM64-200-*	44.5	96.8	85.9	49.3	76.2	38.1	127.0	127.0	63.5	M20 X 2.50	14.44(6.55)	6000 (420)

*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

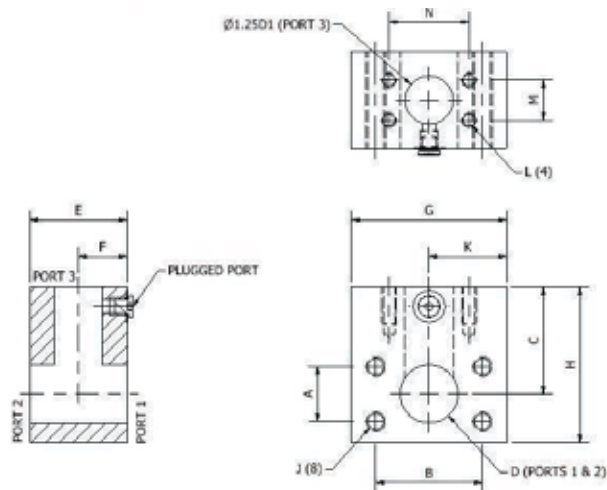
Ordering Example: BT64-200-SS

* Insert Material _____

SAE 6000 PSI Reducing Branch Block Tee - NPS

(ISO 6162-2) Flange Style

A


BTR64 - Reducing Branch Block Tee Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size (run x branch)	Tee Part Number	Dimensions (in)												Thread 1 UNC-2B	Thread 2 UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	H	K	M	N				
3/4"x1/2"	BTR64-075x050-*	0.94	2.00	2.25	0.75	0.50	2.00	1.00	3.00	3.25	1.50	0.72	1.59	3/8"-16	5/16"-18	5.20 (2.36)	6000 (420)
1"x1/2"	BTR64-100x050-*	1.09	2.25	2.50	0.94	0.50	2.25	1.13	3.00	4.00	1.50	0.72	1.59	7/16"-14	5/16"-18	5.20 (2.36)	6000 (420)
1"x3/4"	BTR64-100x075-*	1.09	2.25	2.50	0.94	0.75	2.25	1.13	3.00	4.00	1.50	0.94	2.00	7/16"-14	3/8"-16	5.20 (2.36)	6000 (420)
1-1/4"x1/2"	BTR64-125x050-*	1.25	2.63	2.75	1.25	0.50	2.50	1.25	4.00	4.00	2.00	0.72	1.59	1/2"-13	5/16"-18	10.00 (4.54)	6000 (420)
1-1/4"x3/4"	BTR64-125x075-*	1.25	2.63	2.75	1.25	0.75	2.50	1.25	4.00	4.00	2.00	0.94	2.00	1/2"-13	3/8"-16	10.00 (4.54)	6000 (420)
1-1/4"x1"	BTR64-125x100-*	1.25	2.63	2.75	1.25	0.94	2.50	1.25	4.00	4.00	2.00	1.09	2.25	1/2"-13	7/16"-14	10.00 (4.54)	6000 (420)
1-1/2"x1/2"	BTR64-150x050-*	1.44	3.13	3.00	1.50	0.50	3.00	1.50	4.00	4.50	2.00	0.72	1.59	5/8"-11	5/16"-18	11.30 (5.13)	6000 (420)
1-1/2"x3/4"	BTR64-150x075-*	1.44	3.13	3.00	1.50	0.75	3.00	1.50	4.00	4.50	2.00	0.94	2.00	5/8"-11	3/8"-16	11.30 (5.13)	6000 (420)
1-1/2"x1"	BTR64-150x100-*	1.44	3.13	3.00	1.50	0.94	3.00	1.50	4.00	4.50	2.00	1.09	2.25	5/8"-11	7/16"-14	11.30 (5.13)	6000 (420)
1-1/2"x1-1/4"	BTR64-150x125-*	1.44	3.13	3.00	1.50	1.25	3.00	1.50	4.00	4.50	2.00	1.25	2.63	5/8"-11	1/2"-13	11.30 (5.13)	6000 (420)
2"x1/2"	BTR64-200x050-*	1.75	3.81	3.38	1.94	0.50	3.00	1.50	5.00	5.00	2.50	0.72	1.59	3/4"-10	5/16"-18	14.80 (6.71)	6000 (420)
2"x3/4"	BTR64-200x075-*	1.75	3.81	3.38	1.94	0.75	3.00	1.50	5.00	5.00	2.50	0.94	2.00	3/4"-10	3/8"-16	14.80 (6.71)	6000 (420)
2"x1"	BTR64-200x100-*	1.75	3.81	3.38	1.94	0.94	3.00	1.50	5.00	5.00	2.50	1.09	2.25	3/4"-10	7/16"-14	14.80 (6.71)	6000 (420)
2"x1-1/4"	BTR64-200x125-*	1.75	3.81	3.38	1.94	1.25	3.00	1.50	5.00	5.00	2.50	1.25	2.63	3/4"-10	1/2"-13	14.80 (6.71)	6000 (420)
2"x1-1/2"	BTR64-200x150-*	1.75	3.81	3.38	1.94	1.50	3.00	1.50	5.00	5.00	2.50	1.44	3.13	3/4"-10	5/8"-11	14.80 (6.71)	6000 (420)

*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

Ordering Example: BTR64-200x050-SS

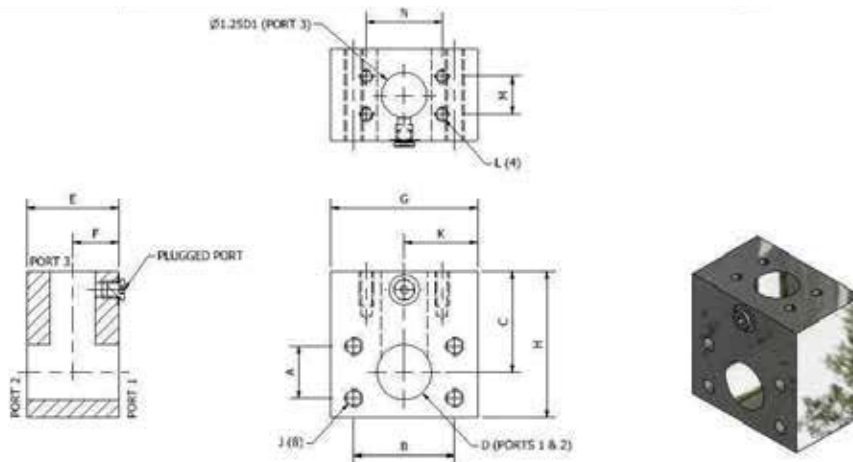
* Insert Material

SAE 6000

SAE 6000 PSI Reducing Branch Block Tee - Metric

SAE J518 Code 62 (ISO 6162-2) Flange Style

Ä



BTRM64 - Reducing Branch Block Tee Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric

Size (run x branch)	Block Tee Part Number	Dimensions (mm)												Thread 1	Thread 2	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	H	K	M	N				
3/4"x1/2"	BTRM64-075x050-*	23.9	50.8	57.2	19.1	12.7	50.8	25.4	76.2	82.6	38.1	18.3	40.4	M10 x 1.50	M8 x 1.25	5.20 (2.36)	6000 (420)
1"x1/2"	BTRM64-100x050-*	27.7	57.2	63.5	23.9	12.7	57.2	28.7	76.2	101.6	38.1	18.3	40.4	M12 x 1.75	M8 x 1.25	5.20 (2.36)	6000 (420)
1"x3/4"	BTRM64-100x075-*	27.7	57.2	63.5	23.9	19.1	57.2	28.7	76.2	101.6	38.1	23.9	50.8	M12 x 1.75	M10 x 1.50	5.20 (2.36)	6000 (420)
1-1/4"x1/2"	BTRM64-125x050-*	31.8	66.8	69.9	31.8	12.7	63.5	31.8	101.6	101.6	50.8	18.3	40.4	M12 x 1.75	M8 x 1.25	10.00 (4.54)	6000 (420)
1-1/4"^(2)x1/2"	BTRM64-125-M14x050*	31.8	66.8	69.9	31.8	12.7	63.5	31.8	101.6	101.6	50.8	18.3	40.4	M14 x 2.00	M8 x 1.25	10.00 (4.54)	6000 (420)
1-1/4"x3/4"	BTRM64-125x075-*	31.8	66.8	69.9	31.8	19.1	63.5	31.8	101.6	101.6	50.8	23.9	50.8	M12 x 1.75	M10 x 1.50	10.00 (4.54)	6000 (420)
1-1/4"^(2)x3/4"	BTRM64-125-M14x075*	31.8	66.8	69.9	31.8	19.1	63.5	31.8	101.6	101.6	50.8	23.9	50.8	M14 x 2.00	M10 x 1.50	10.00 (4.54)	6000 (420)
1-1/4"x1"	BTRM64-125x100-*	31.8	66.8	69.9	31.8	23.9	63.5	31.8	101.6	101.6	50.8	27.7	57.2	M12 x 1.75	M12 x 1.75	10.00 (4.54)	6000 (420)
1-1/4"^(2)x1"	BTRM64-125-M14x100*	31.8	66.8	69.9	31.8	23.9	63.5	31.8	101.6	101.6	50.8	27.7	57.2	M14 x 2.00	M12 x 1.75	10.00 (4.54)	6000 (420)
1-1/2"x1/2"	BTRM64-150x050-*	36.6	79.5	76.2	38.1	12.7	76.2	38.1	101.6	114.3	50.8	18.3	40.4	M16 x 2.00	M8 x 1.25	11.30 (5.13)	6000 (420)
1-1/2"x3/4"	BTRM64-150x075-*	36.6	79.5	76.2	38.1	19.1	76.2	38.1	101.6	114.3	50.8	23.9	50.8	M16 x 2.00	M10 x 1.50	11.30 (5.13)	6000 (420)
1-1/2"x1"	BTRM64-150x100-*	36.6	79.5	76.2	38.1	23.9	76.2	38.1	101.6	114.3	50.8	27.7	57.2	M16 x 2.00	M12 x 1.75	11.30 (5.13)	6000 (420)
1-1/2"x1-1/4"	BTRM64-150x125-*	36.6	79.5	76.2	38.1	31.8	76.2	38.1	101.6	114.3	50.8	31.8	66.8	M16 x 2.00	M12 x 1.75	11.30 (5.13)	6000 (420)
1-1/2"x1-1/4"^(2)	BTRM64-150x125-M14-*	36.6	79.5	76.2	38.1	31.8	76.2	38.1	101.6	114.3	50.8	31.8	66.8	M16 x 2.00	M14 x 2.00	11.30 (5.13)	6000 (420)
2"x1/2"	BTRM64-200x050-*	44.5	96.8	85.9	49.3	12.7	76.2	38.1	127.0	127.0	63.5	18.3	40.4	M20 x 2.50	M8 x 1.25	14.80 (6.71)	6000 (420)
2"x3/4"	BTRM64-200x075-*	44.5	96.8	85.9	49.3	19.1	76.2	38.1	127.0	127.0	63.5	23.9	50.8	M20 x 2.50	M10 x 1.50	14.80 (6.71)	6000 (420)
2"x1"	BTRM64-200x100-*	44.5	96.8	85.9	49.3	23.9	76.2	38.1	127.0	127.0	63.5	27.7	57.2	M20 x 2.50	M12 x 1.75	14.80 (6.71)	6000 (420)
2"x1-1/4"	BTRM64-200x125-*	44.5	96.8	85.9	49.3	31.8	76.2	38.1	127.0	127.0	63.5	31.8	66.8	M20 x 2.50	M12 x 1.75	14.80 (6.71)	6000 (420)
2"x1-1/4"^(2)	BTRM64-200x125-M14-*	44.5	96.8	85.9	49.3	31.8	76.2	38.1	127.0	127.0	63.5	31.8	66.8	M20 x 2.50	M14 x 2.00	14.80 (6.71)	6000 (420)
2"x1-1/2"	BTRM64-200x150-*	44.5	96.8	85.9	49.3	38.1	76.2	38.1	127.0	127.0	63.5	36.6	79.5	M20 x 2.50	M16 x 2.00	14.80 (6.71)	6000 (420)

* Materials:

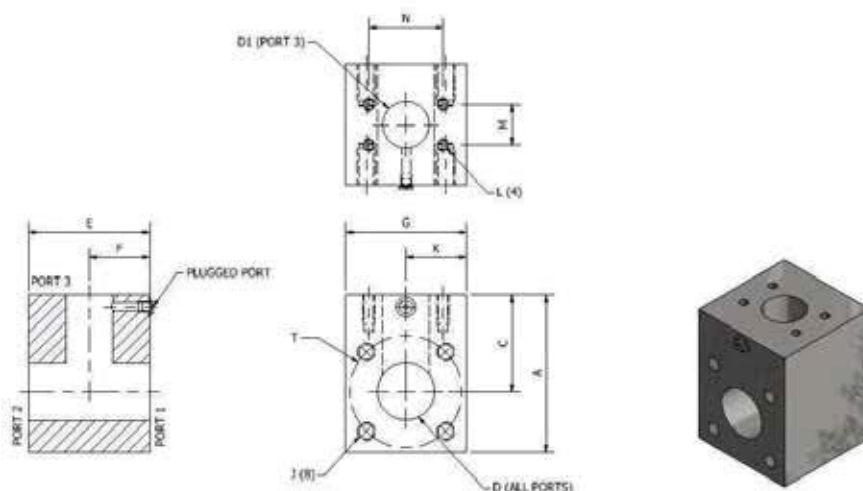
Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

Ordering Example: BTRM64-200x050-SS

* Insert Material

SAE 6000 PSI Reducing Branch Block Tee

ISO 6 64/SAE J518 Code 62 (ISO 6162-2) Flange Style


BTR7-64 - Reducing Branch Block Tee Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size (run x branch)	Block Tee Part Number	Dimensions (in)											Thread 1 UNC-2B	Thread 2 UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		T	C	D	D1	E	F	G	H	K	M	N				
2-1/2"x2"	BTR7-64-250x200-*	4.65	4.13	2.38	1.94	3.50	1.75	5.00	6.50	2.50	1.75	3.81	3/4"-10	3/4"-10	32.19 (14.60)	5800 (400)
3"x2"	BTR7-64-300x200-*	5.71	4.75	2.88	1.94	4.00	2.00	6.00	7.75	3.00	1.75	3.81	1"-8	3/4"-10	49.50 (22.45)	5800 (400)
4"x2"	BTR7-64-400x200-*	6.89	5.00	3.50	1.94	4.00	2.00	7.00	8.50	3.50	1.75	3.81	1-1/8"-7	3/4"-10	67.35 (30.55)	5800 (400)

BTRM7-64 - Reducing Branch Block Tee Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric

Size (run x branch)	Block Tee Part Number	Dimensions (mm)											Thread 1	Thread 2	WT lbs (kg)	Working Pressure PSI (bar)
		T	C	D	D1	E	F	G	H	K	M	N				
2-1/2"x2"	BTRM7-64-250x200-*	118.1	104.9	60.5	49.3	88.9	44.5	127.0	165.1	63.5	44.5	96.8	M20 x 2.50	M20 x 2.50	32.25 (14.63)	5800 (400)
3"x2"	BTRM7-64-300x200-*	145.0	120.7	73.2	49.3	101.6	50.8	152.4	196.9	76.2	44.5	96.8	M24 x 3.00	M20 x 2.50	49.60 (22.50)	5800 (400)
4"x2"	BTRM7-64-400x200-*	175.0	127.0	88.9	49.3	101.6	50.8	177.8	215.9	88.9	44.5	96.8	M30 x 3.50	M20 x 2.50	67.48 (30.61)	5800 (400)

Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

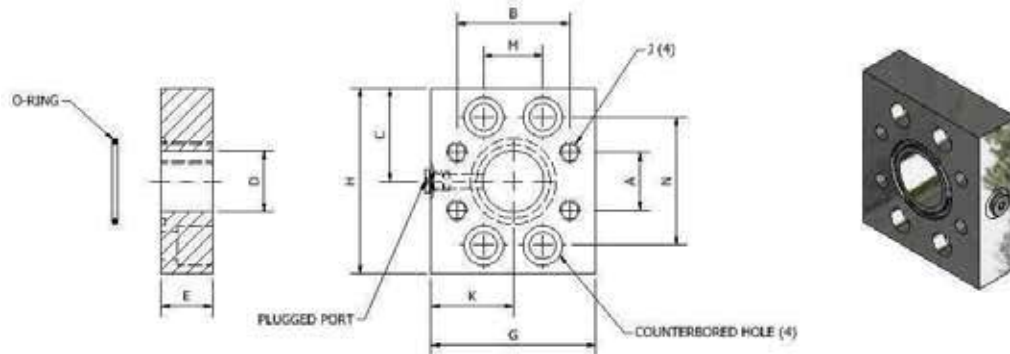
Ordering Example: BTR7-64-250x200-SS

* Insert Material

SAE 6000

SAE 6000 PSI Transition Plate

SAE J518 Code 62/Code 61 (ISO 6162-2/6162-1) Flange Manifold Mount Style



TP06-34 - Transition Plate O-Ring Face with Counterbored Holes Complete with Buna O-Ring and #4 SAE Port (Plugged), NPS

Size	Transition Plate Part Number	Dimensions (in)										C'T Bore Bolt	Thread 1 UNC-2B	O-Ring (Buna) Part No.	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	G	H	K	M	N					
1/2"	TP06-34-050-*~^	0.69	1.50	1.25	0.50	1.00	2.50	2.50	1.50	0.72	1.60	5/16"	5/16"-18	OR^~2-210	1.40 (0.64)	5000 (350)
3/4"	TP06-34-075-*~^	0.88	1.88	1.50	0.75	1.00	3.00	3.00	1.75	0.94	2.00	3/8"	3/8"-16	OR^~2-214	2.00 (0.91)	5000 (350)
1"	TP06-34-100-*~^	1.03	2.06	1.50	0.94	1.00	3.00	3.00	1.50	1.10	2.24	7/16"	3/8"-16	OR^~2-219	1.90 (0.86)	5000 (350)
1-1/4"	TP06-34-125-*~^	1.19	2.31	2.00	1.25	1.25	3.00	4.00	1.50	1.24	2.62	1/2"	7/16"-14	OR^~2-222	3.59 (1.63)	4000 (275)
1-1/2"	TP06-34-150-*~^	1.41	2.75	2.25	1.50	1.25	4.00	4.50	2.00	1.44	3.13	31/32"	1/2"-13	OR^~2-225	4.56 (2.07)	3000 (210)
2"	TP06-34-200-*~^	1.69	3.06	2.75	1.94	1.75	4.00	5.50	2.00	1.75	3.81	3/4"	1/2"-13	OR^~2-228	7.40 (3.36)	3000 (210)

TPOM6-34 - Transition Plate O-Ring Face with Counterbored Holes Complete with Buna O-Ring and G 1/8 Port (Plugged), Metric

Size	Transition Plate Part Number	Dimensions (mm)										C'T Bore	Thread	O-Ring (Buna) Part No.	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	G	H	K	M	N					
1/2"	TPOM6-34-050-*~^	17.5	38.10	31.8	12.7	25.4	63.5	63.5	38.1	18.3	40.6	M8	M8x1.25	OR^~2-210	1.40 (0.64)	5000 (350)
3/4"	TPOM6-34-075-*~^	22.4	47.8	38.1	19.1	25.4	76.2	76.2	44.5	23.9	50.8	M10	M10x1.50	OR^~2-214	2.00 (0.91)	5000 (350)
1"	TPOM6-34-100-*~^	26.2	52.3	38.1	23.9	25.4	76.2	76.2	38.1	27.9	56.9	M12	M12x1.50	OR^~2-219	1.90 (0.86)	5000 (350)
1-1/4"	TPOM6-34-125-*~^	30.2	58.7	50.8	31.8	31.8	76.2	101.6	38.1	31.5	66.5	M12	M12x1.50	OR^~2-222	3.59 (1.63)	4000 (275)
1-1/4" ⁽²⁾	TPOM6-34-125-M14-*~^	30.2	58.7	50.8	31.8	31.8	76.2	101.6	38.1	31.5	66.5	M14	M12x1.50	OR^~2-222	3.59 (1.63)	4000 (275)
1-1/2"	TPOM6-34-150-*~^	35.8	69.9	57.2	38.1	31.8	101.6	114.3	50.8	36.6	79.5	M16	M16x1.75	OR^~2-225	4.56 (2.07)	3000 (210)
2"	TPOM6-34-200-*~^	42.9	77.7	69.9	49.3	44.5	101.6	139.7	50.8	44.5	96.8	M20	M20x1.75	OR^~2-228	7.40 (3.36)	3000 (210)

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: TP06-34-200-SS-V

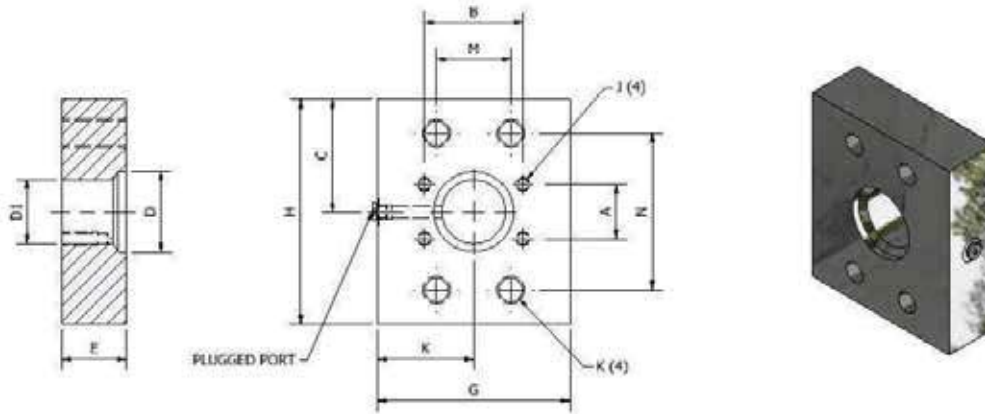
* Insert Material

^ Insert O-Ring Type

3D step models available upon request

SAE 6000 PSI Transition Plate Reducer

SAE J518 Code 62/Code 61 (ISO 61622/6162-1) Flange Union Style



TPR6-34 - Transition Plate Reducer Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size (SAE Code 62 x Code 61)	Reducer Part Number	Dimensions (in)											Thread 1 UNC-2B	Thread 2 UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	G	H	K	M	N				
3/4" x 1/2"	TPR6-34-075x050-	0.69	1.50	1.25	0.75	0.50	1.00	2.50	3.00	1.25	0.94	2.00	3/8"-16	5/16"-18	1.87 (0.85)	5000 (350)
1" x 1/2"	TPR6-34-100x050-	0.69	1.50	1.25	0.94	0.50	1.50	3.00	3.00	1.50	1.09	2.25	7/16"-14	5/16"-18	3.42 (1.55)	5000 (350)
1" x 3/4"	TPR6-34-100x075-	0.88	1.88	1.50	0.94	0.75	1.25	3.00	3.00	1.50	1.09	2.25	7/16"-14	3/8"-16	2.70 (1.22)	5000 (350)
1-1/4" x 3/4"	TPR6-34-125x075-	0.88	1.88	1.50	1.25	0.75	1.50	3.00	3.50	1.50	1.25	2.62	1/2"-13	3/8"-16	3.80 (1.72)	5000 (350)
1-1/4" x 1"	TPR6-34-125x100-	1.03	2.06	1.50	1.25	0.94	1.25	3.00	3.50	1.50	1.25	2.62	1/2"-13	3/8"-16	3.00 (1.36)	5000 (350)
1-1/2" x 1"	TPR6-34-150x100-	1.03	2.06	1.50	1.50	0.94	1.50	3.00	4.00	1.50	1.44	3.13	5/8"-11	3/8"-16	4.10 (1.86)	5000 (350)
1-1/2" x 1-1/4"	TPR6-34-150x125-	1.19	2.31	2.00	1.50	1.25	1.50	4.00	4.00	2.00	1.44	3.13	5/8"-11	7/16"-14	55.50 (2.49)	4000 (280)
2" x 1-1/4"	TPR6-34-200x125-	1.19	2.31	2.00	1.94	1.25	1.75	4.00	5.00	2.00	1.75	3.82	3/4"-10	7/16"-14	8.27 (3.75)	4000 (280)
2" x 1-1/2"	TPR6-34-200x150-	1.41	2.75	2.50	1.94	1.50	1.50	5.00	5.00	2.50	1.75	3.81	3/4"-10	1/2"-13	8.93 (4.05)	4000 (280)

TPRM6-34 - Transition Plate Reducer Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric

Size (SAE Code 62 x Code 61)	Reducer Part Number	Dimensions (mm)											Thread 1	Thread 2	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	G	H	K	M	N				
3/4" x 1/2"	TPRM6-34-075x050-*	17.5	38.1	31.8	19.1	12.7	25.4	63.5	76.2	31.8	23.9	50.8	M10 x 1.50	M8 x 1.25	1.87 (0.85)	5000 (350)
1" x 1/2"	TPRM6-34-100x050-*	17.5	38.1	38.1	23.9	12.7	38.1	76.2	76.2	38.1	27.7	57.2	M12 x 1.75	M8 x 1.25	3.42 (1.55)	5000 (350)
1" x 3/4"	TPRM6-34-100x075-*	22.4	47.8	38.1	23.9	19.1	31.8	76.2	76.2	38.1	27.7	57.2	M12 x 1.75	M10 x 1.50	2.70 (1.22)	5000 (350)
1-1/4" x 3/4"	TPRM6-34-125x075-*	22.4	47.8	38.1	31.8	19.1	38.1	76.2	88.9	38.1	31.8	66.5	M12 x 1.75	M10 x 1.50	3.80 (1.72)	5000 (350)
1-1/4" x 3/4"	TPRM6-34-125-M14x075-*	22.4	47.8	38.1	31.8	19.1	38.1	76.2	88.9	38.1	31.8	66.5	M14 x 2.00	M10 x 1.50	3.80 (1.72)	5000 (350)
1-1/4" x 1"	TPRM6-34-125x100-*	26.2	52.3	38.1	31.8	23.9	31.8	76.2	88.9	38.1	31.8	66.5	M12 x 1.75	M10 x 1.50	3.00 (1.36)	5000 (350)
1-1/4" x 1"	TPRM6-34-125-M14x100-	26.2	52.3	38.1	31.8	23.9	31.8	76.2	88.9	38.1	31.8	66.5	M14 x 2.00	M10 x 1.50	3.00 (1.36)	5000 (350)
1-1/2" x 1"	TPRM6-34-150x100-*	26.2	52.3	38.1	38.1	23.9	38.1	76.2	101.6	38.1	36.6	79.5	M16 x 2.00	M10 x 1.50	4.10 (1.86)	5000 (350)
1-1/2" x 1-1/4"	TPRM6-34-150x125-*	30.2	58.7	50.8	38.1	31.8	38.1	101.6	101.6	50.8	36.6	79.5	M16 x 2.00	M10 x 1.50	55.50 (2.49)	4000 (280)
2" x 1-1/4"	TPRM6-34-200x125-*	30.2	58.7	50.8	49.3	31.8	44.5	101.6	127.0	50.8	44.7	97.0	M20x2.50	M10 x 1.50	8.27 (3.75)	4000 (280)
2" x 1-1/2"	TPRM6-34-200x150-*	35.8	69.9	63.5	49.3	38.1	38.1	127.0	127.0	63.5	44.5	96.8	M20x2.50	M12 x 1.75	8.93 (4.05)	4000 (280)

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = All Stainless Steel, Type 316.

Ordering Example: TPR6-34-200x125-SS

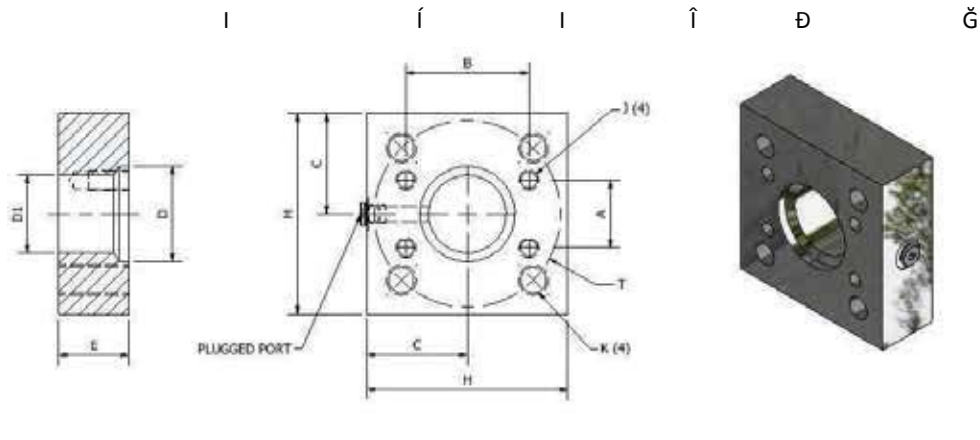
* Insert Material

3D step models available upon request

SAE 6000

SAE 6000 PSI Transition Plate Reducer

SAE J518 Code 62/Code 61 (ISO 6162-2/6162-1) Flange Union Style



TPR7-64 - Transition Plate Reducer Flat Face with Threaded Holes Complete With #4 SAE Port (Plugged), NPS													
Size (ISO 6164 x SAE Code 62)	Reducer Part Number	Dimensions (in)								Thread 1 UNC-2B	Thread 2 UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		T	A	B	C	D	D1	E	H				
2-1/2" x 1-1/2"	TPR7-64-250x150-*	4.65	1.44	3.13	2.50	2.38	1.50	2.00	5.00	3/4"-10	5/8"-11	11.46 (5.20)	5800 (400)
2-1/2" x 2"	TPR7-64-250x200-*	4.65	1.75	3.81	3.00	2.38	1.94	1.50	6.00	3/4"-10	3/4"-10	8.65 (3.92)	5800 (400)
3" x 2"	TPR7-64-300x200-*	5.71	1.75	3.81	3.00	2.88	1.94	2.25	6.00	1"-8	3/4"-10	17.80 (8.07)	5800 (400)
4" x 2"	TPR7-64-400x200-*	6.89	1.75	3.81	3.50	3.50	1.94	2.25	7.00	1 1/8"-7	3/4"-10	25.54 (11.58)	5800 (400)

TPRM7-64 - Transition Plate Reducer Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric													
Size (ISO 6164 x SAE Code 62)	Reducer Part Number	Dimensions (mm)								Thread 1	Thread 2	WT lbs (kg)	Working Pressure PSI (bar)
		T	A	B	C	D	D1	E	H				
2-1/2" x 1-1/2"	TPRM7-64-250x150-*	118.1	36.6	79.5	63.5	60.5	38.1	50.8	127.0	M20 x 2.50	M16 x 2.00	11.49 (5.21)	5800 (400)
2-1/2" x 2"	TPRM7-64-250x200-*	118.1	44.5	96.8	76.2	60.5	49.3	38.1	152.4	M20 x 2.50	M20 x 2.50	8.66 (3.93)	5800 (400)
3" x 2"	TPRM7-64-300x200-*	145.0	44.5	96.8	76.2	73.2	49.3	57.2	152.4	M24 x 3.00	M20 x 2.50	17.84 (8.09)	5800 (400)
4" x 2"	TPRM7-64-400x200-*	175.0	44.5	96.8	88.9	88.9	49.3	57.2	177.8	M30 x 3.50	M20 x 2.50	25.60 (11.61)	5800 (420)

*** Materials:**

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

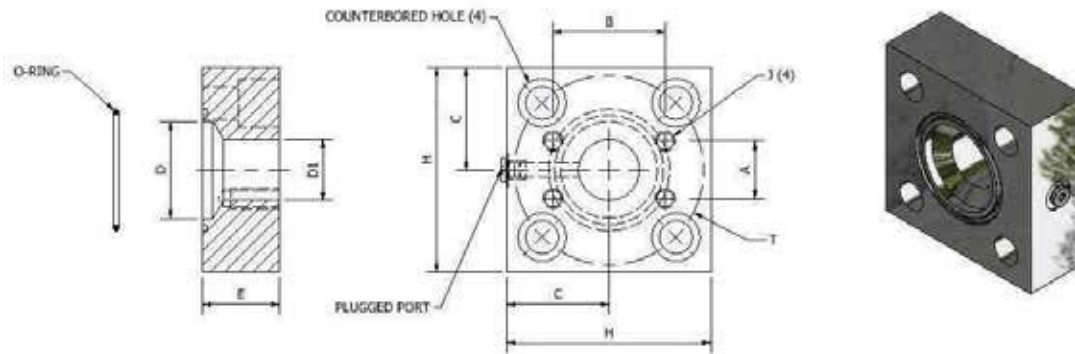
SS = All Stainless Steel, Type 316.

Ordering Example: TPR7-64-250x150-SS

* Insert Material _____

SAE 6000 PSI Transition Plate Reducer

SAE J518 Code 62/Code 61 (ISO 6162-2/6162-1) Flange Manifold Mount Style



TPR07-64 - Transition Plate Reducer O-Ring Face with Counterbored Holes Complete with Buna O-Ring and #4 SAE Port (Plugged), NPS

Size (ISO 6164 x SAE Code 62)	Reducer Part Number	Dimensions (in)								C'T Bore Bolt	Thread C'T Bore Bolt UNC-2B	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		T	A	B	C	D	D1	E	H					
2-1/2" x 1-1/2"	TPR07-64-250x150-*	4.65	1.44	3.13	2.50	2.38	1.50	2.00	5.00	3/4"-10	5/8"-11	OR^-2-232	10.61 (4.82)	5800 (400)
3" x 2"	TPR07-64-300x200-*	5.71	1.75	3.81	3.00	2.88	1.94	2.25	6.00	1"-8	3/4"-10	OR^-2-237	16.05 (7.30)	5800 (400)
4" x 2"	TPR07-64-400x200-*	6.89	1.75	3.81	3.50	3.50	1.94	2.25	7.00	1 1/8"-7	3/4"-10	OR^-2-241	23.09 (10.50)	5800 (400)

TPRM07-64 - Transition Plate Reducer O-Ring Face with Counterbored Holes Complete with Buna O-Ring and G1/8 Port (Plugged), Metric

Size (ISO 6164 x SAE Code 62)	Reducer Part Number	Dimensions (mm)								C'T Bore Bolt	Thread	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		T	A	B	C	D	D1	E	H					
2-1/2" x 1-1/2"	TPROM7-64-250x150-*	118.1	36.6	79.5	63.5	60.5	38.1	50.8	127.0	M20 x 2.50	M16 x 2.00	OR^-2-232	10.61 (4.82)	5800 (400)
3" x 2"	TPROM7-64-300x200-*	145.0	44.5	96.8	76.2	73.2	49.3	57.2	152.4	M24 x 3.00	M20 x 2.50	OR^-2-237	16.05 (7.30)	5800 (400)
4" x 2"	TPRM7-64-400x200-*	175.0	44.5	96.8	88.9	88.9	49.3	57.2	177.8	M30 x 3.50	M20 x 2.50	OR^-2-241	23.09 (10.50)	5800 (420)

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.
V = Viton.

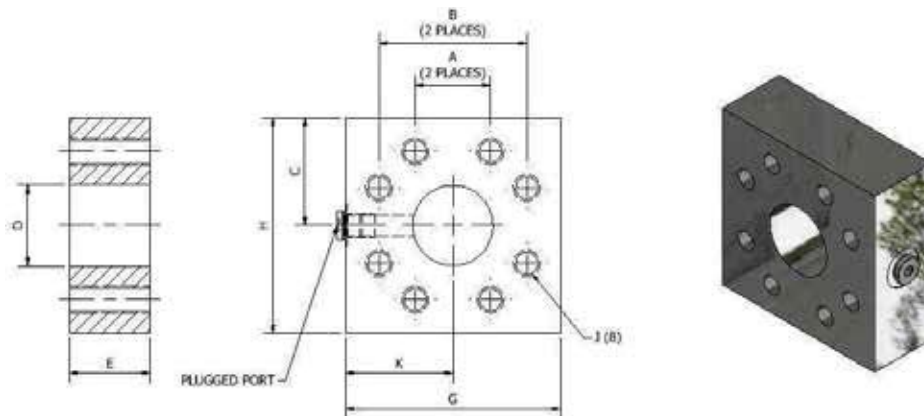
Ordering Example: TPR07-64-250x150-SS-V

* Insert Material

^ Insert O-Ring Type

SAE 6000 PSI Adapter Plate

SAE J518 Code 62 (ISO 6162-2)



AP64 - Adapter Plate Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size	Adapter Plate Part No	Dimensions (in)								Thread UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	G	H	K			
1/2"	AP64-050-*	0.72	1.59	1.25	0.50	1.00	2.75	2.50	1.38	5/16"-18	1.66 (0.75)	6000 (420)
3/4"	AP64-075-*	0.94	2.00	1.50	0.75	1.00	3.00	3.00	1.50	3/8"-16	2.19 (1.00)	6000 (420)
1"	AP64-100-*	1.098	2.25	1.50	0.94	1.25	3.00	3.00	1.50	7/16"-14	2.10 (0.95)	6000 (420)
1-1/4"	AP64-125-*	1.25	2.63	2.00	1.25	1.25	4.00	4.00	2.00	1/2"-13	5.40 (2.45)	6000 (420)
1-1/2"	AP64-150-*	1.44	3.13	2.00	1.50	1.50	4.00	4.00	2.00	5/8"-1	5.08 (2.31)	6000 (420)
2"	AP64-200-*	1.75	3.81	2.50	1.94	1.50	5.00	5.00	2.50	3/4"-10	8.10 (3.68)	6000 (420)

APM64 - Adapter Plate Flat Face with Threaded Holes Complete with G 1/8 Port (Plugged), Metric

Size (inch)	Adapter Plate Part No	Dimensions (mm)								Thread	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	G	H	K			
1/2"	APM64-050-*	18.3	40.4	31.8	12.7	25.4	69.9	63.5	35.1	M8 x 1.25	1.66 (0.75)	6000 (420)
3/4"	APM64-075-*	23.9	50.8	38.1	19.1	25.4	76.2	76.2	38.1	M10 x 1.50	2.19 (1.00)	6000 (420)
1"	APM64-100-*	27.7	57.2	38.1	23.9	31.8	76.2	76.2	38.1	M12 x 1.75	2.10 (0.95)	6000 (420)
1-1/4"	APM64-125-*	31.8	66.8	50.8	31.8	31.8	101.6	101.6	50.8	M12 x 1.75	5.40 (2.45)	6000 (420)
1-1/4" (2)	APM64-125-M14-*	31.8	66.8	50.8	31.8	31.8	101.6	101.6	50.8	M14 x 2.00"	5.40 (2.45)	6000 (420)
1-1/2"	APM64-150-*	36.6	79.5	50.8	38.1	38.1	101.6	101.6	50.8	M16 x 2.00	5.08 (2.31)	6000 (420)
2"	APM64-200-*	44.5	96.8	63.5	49.3	38.1	127.0	127.0	63.5	M20 x 2.50	8.10 (3.68)	6000 (420)

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

SS = Stainless Steel, Type 316.

Ordering Example: AP64-200-SS

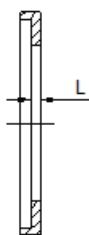
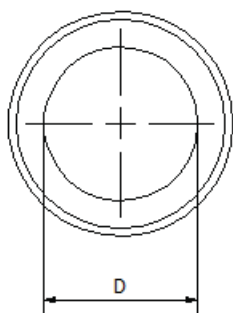
* Insert Material

SAE 6000

SAE 6000 PSI O-Ring Connector Plate

SAE J518 Code 62 (ISO 6162-2)

1/2
3/4
1
1 1/4
1 1/2
2



OCP - O-Ring Connector Plate				
Size	Connector Plate Part Number	Dimensions in (mm)		WT lbs (kg)
		D	L	
1/2"	OCP-050-*	0.50 (12.7)	0.13 (3.3)	0.04 (0.02)
3/4"	OCP-075-*	0.75 (19.1)	0.13 (3.3)	0.06 (0.03)
1"	OCP-100-*	0.94 (23.9)	0.13 (3.3)	0.07 (0.03)
1-1/4"	OCP-125-*	1.20 (30.5)	0.13 (3.3)	0.08 (0.04)
1-1/2"	OCP-150-*	1.50 (38.1)	0.13 (3.3)	0.11 (0.05)
2"	OCP-200-*	1.94 (49.3)	0.13 (3.3)	0.13 (0.06)

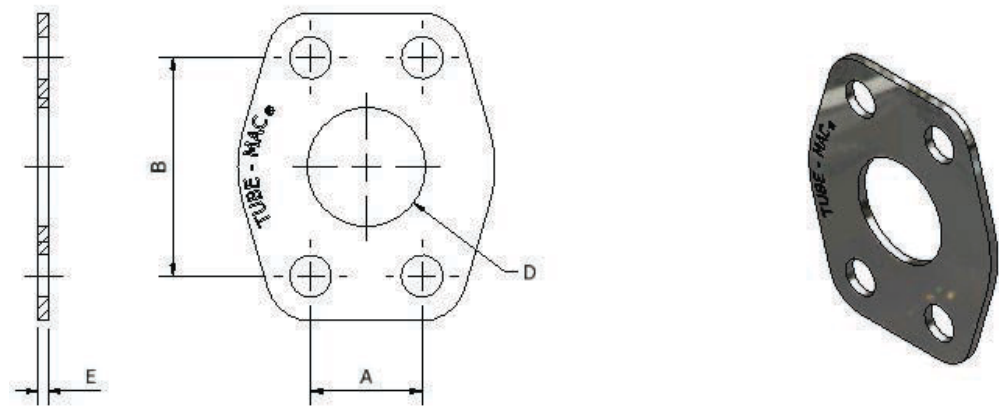
*** Materials:**

Standard, No Designation = Carbon Steel,
Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

Ordering Example: OCP-200-SS

* Insert Material

SAE 6000 PSI Connector Plate
SAE J518 Code 62 (ISO 6162-2)



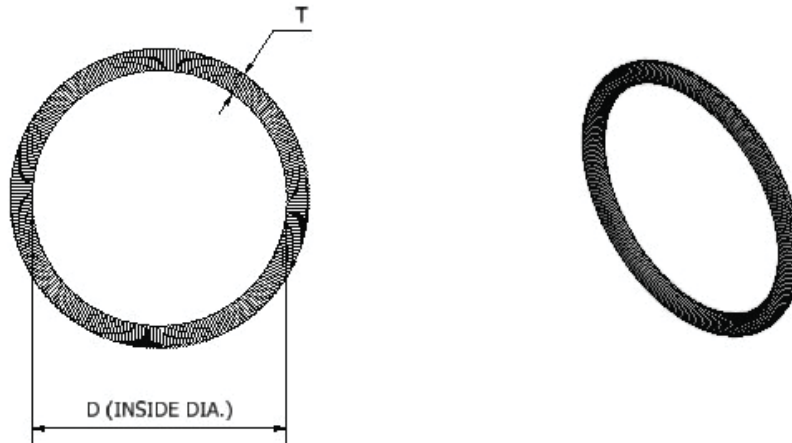
CP - Connector Plate						
Size	Part Number	Dimensions in (mm)				WT lbs (kg)
		A	B	D	E	
1/2"	CP64-050	0.72 (18.28)	1.59 (40.39)	0.50 (12.70)	0.12 (3.05)	0.09 (0.04)
3/4"	CP64-075	0.94 (23.88)	2.00 (50.80)	0.75 (19.05)	0.12 (3.05)	0.15 (0.07)
1"	CP64-100	1.09 (27.69)	2.25 (57.15)	1.00 (25.40)	0.12 (3.05)	0.20 (0.09)
1-1/4"	CP64-125	1.25 (31.75)	2.63 (66.80)	1.25 (31.75)	0.12 (3.05)	0.25 (0.11)
1-1/4" ⁽¹⁾	CP64-125-M14	1.25 (31.75)	2.63 (66.80)	1.25 (31.75)	0.12 (3.05)	0.25 (0.11)
1-1/2"	CP64-150	1.44 (36.58)	3.13 (79.50)	1.50 (38.10)	0.12 (3.05)	0.36 (0.16)
2"	CP64-200	1.75 (44.45)	3.81 (96.77)	2.00 (50.80)	0.12 (3.05)	0.49 (0.22)

Note: ⁽¹⁾ Designates M14 Bolt – Special Order

SAE 6000

Retain Ring

SAE J518 Code 62 (ISO 6162-2)



R - Retain Ring

Size	Retain Ring Part Number	Dimensions in (mm)		WT lbs (kg)
		D	t	
1/2"	R-050	0.85 (21.6)	0.16 (4.1)	0.01 (0.005)
3/4"	R-075	1.24 (31.5)	0.16 (4.1)	0.02 (0.009)
1"	R-100	1.32 (33.5)	0.20 (5.1)	0.03 (0.014)
1-1/4"	R-125	1.59 (40.4)	0.20 (5.1)	0.04 (0.018)
1-1/2"	R-150	1.99 (50.5)	0.20 (5.1)	0.05 (0.023)
2"	R-200	2.38 (60.5)	0.20 (5.1)	0.06 (0.027)

RA - Retain Ring for Grooved NPS Pipe

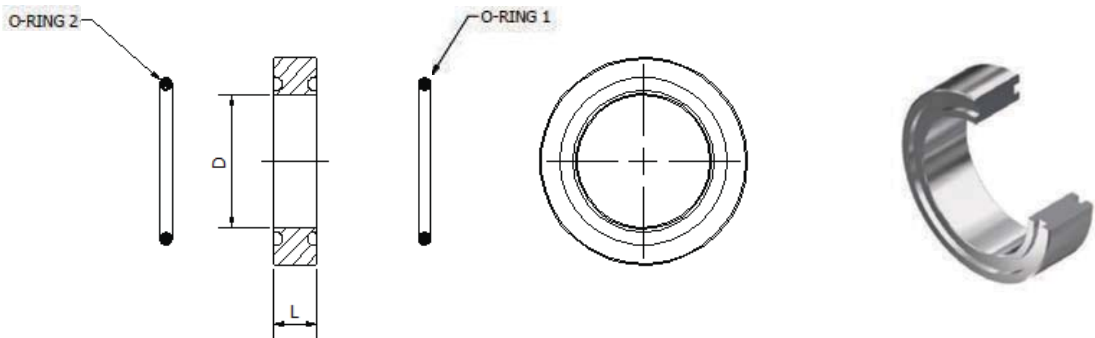
Size	Retain Ring Part Number	Dimensions in (mm)		WT lbs (kg)
		D	t	
1-1/2"	RA-150	1.69 (42.93)	0.20 (5.0)	0.04 (0.018)
2"	RA-200	2.16 (54.86)	0.20 (5.0)	0.05 (0.023)
2-1/2"	RA-250	2.66 (67.50)	0.20 (5.0)	0.07 (0.032)
3"	RA-300	3.24 (82.4)	0.24 (6.0)	0.11 (0.050)

*** Materials:**

Stainless Steel – AISI 302/304 Spring Temper

SAE 6000 PSI O-Ring Spacer

SAE J518 Code 62 (ISO 6162-2)



OS - O-Ring Spacer for Retain Ring Pipe – 1/2"- 2" Complete with Buna O-Rings					
Size	Part Number	Dimensions in (mm)		O-Rings 1&2 (Buna) Part Number	WT lbs (kg)
		D	L		
1/2"	OS-050-*^-^	0.55 (14.0)	0.50 (12.7)	OR^-3-909	0.11 (0.05)
3/4"	OS-075-*^-^	0.79 (20.1)	0.50 (12.7)	OR^-3-913	0.18 (0.08)
1"	OS-100-*^-^	0.91 (23.1)	0.50 (12.7)	OR^-3-916	0.21 (0.10)
1-1/4"	OS-125-*^-^	1.18 (30.0)	0.50 (12.7)	OR^-3-918	0.26 (0.12)
1-1/2"	OS-150-*^-^	1.54 (39.1)	0.50 (12.7)	OR^-3-924	0.33 (0.15)
2"	OS-200-*^-^	1.93 (49.0)	0.50 (12.7)	OR^-3-928	0.43 (0.20)

*** Materials:**
Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

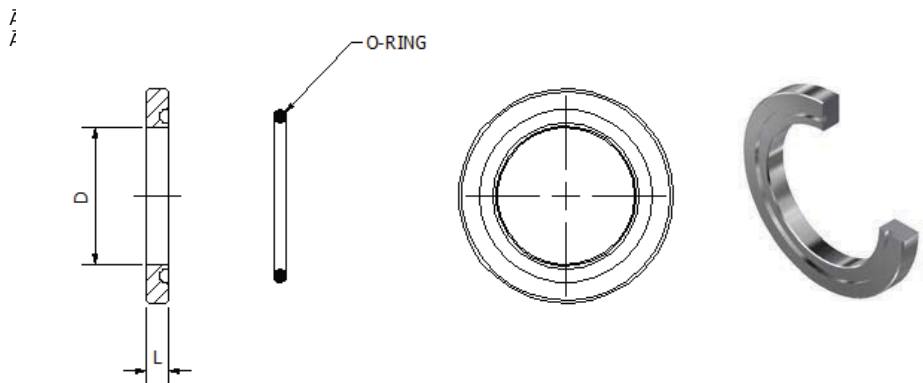
^ O-Ring Type:
Standard, No Designation = Buna Nitrile.
V = Viton.

Ordering Example: OS-200-SS-V
* Insert Material
^ Insert O-Ring Type

SAE 6000

SAE 6000 PSI O-Ring Spacer

for Retain Ring Pipe to Hose End SAE J518
Code 62 (ISO 6162-2)



OSH – O-Ring Spacer for Retain Ring Pipe to Hose End					
Size	Part Number	Dimensions in (mm)		O-Ring (Buna) Part Number	WT lbs (kg)
		D	L		
1/2"	OSH-050-*^-^	0.55 (14.0)	0.25 (6.4)	OR^-3-909	0.04 (0.02)
3/4"	OSH-075-*^-^	0.79 (20.1)	0.25 (6.4)	OR^-3-913	0.07 (0.03)
1"	OSH-100-*^-^	0.91 (23.1)	0.25 (6.4)	OR^-3-916	0.08 (0.04)
1-1/4"	OSH-125-*^-^	1.18 (30.0)	0.25 (6.4)	OR^-3-918	0.09 (0.04)
1-1/2"	OSH-150-*^-^	1.54 (39.1)	0.25 (6.4)	OR^-3-924	0.12 (0.05)
2"	OSH-200-*^-^	1.91 (48.5)	0.25 (6.4)	OR^-3-928	0.20 (0.09)

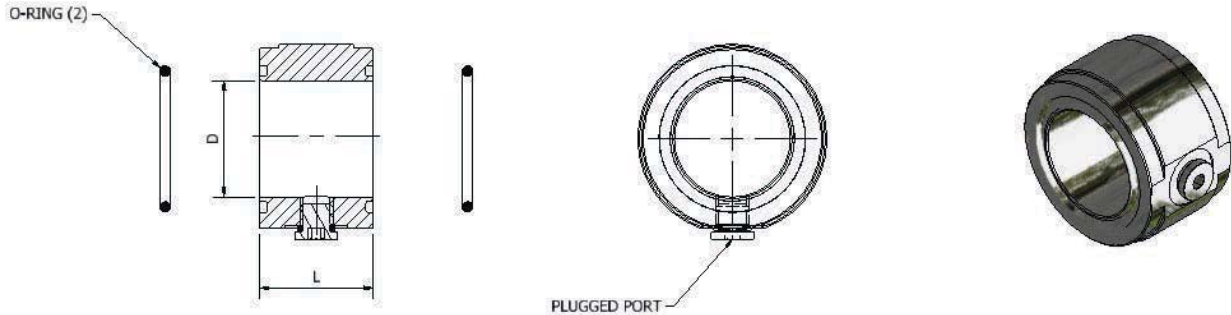
*** Materials:**
Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

^ O-Ring Type:
Standard, No Designation = Buna Nitrile.
V = Viton.

Ordering Example: OSH-200-SS-V
* Insert Material _____
^ Insert O-Ring Type _____

SAE 6000 PSI O-Ring Spacer with Pilot Port

SAE J518 Code 62 (ISO 6162-2)



OSP - O-Ring Spacer with Pilot Port for Retain Ring Pipe - 1/2" - 3" Complete with Buna O-Rings (Standard) and #4 SAE Port (Plugged)

Size	Part Number	Dimensions in (mm)		O-Rings 1&2 (Buna) Part Number	WT lbs (kg)
		D	L		
1/2"	OSP-050-*^-^	0.55 (14.0)	1.50 (38.1)	OR^-3-909	0.37 (0.17)
3/4"	OSP-075-*^-^	0.79 (20.1)	1.50 (38.1)	OR^-3-913	0.64 (0.29)
1"	OSP-100-*^-^	0.91 (23.1)	1.50 (38.1)	OR^-3-916	0.78 (0.35)
1-1/4"	OSP-125-*^-^	1.18 (30.0)	1.50 (38.1)	OR^-3-918	0.86 (0.39)
1-1/2"	OSP-150-*^-^	1.54 (39.1)	1.50 (38.1)	OR^-3-924	1.40 (0.64)
2"	OSP-200-*^-^	1.91 (48.5)	1.50 (38.1)	OR^-3-928	1.49 (0.68)

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

Ordering Example: OSP-200-SS-V

* Insert Material _____
^ Insert O-Ring Type _____

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.
V = Viton.

OSPM - O-Ring Spacer with Metric Pilot Port for Retain Ring Pipe - 1/2" - 3" Complete with Buna O-Rings (Standard) and G1/8 Port (Plugged)

Size	Part Number	Dimensions in (mm)		O-Rings 1&2 (Buna) Part Number	WT lbs (kg)
		D	L		
1/2"	OSPM-050-*^-^	0.55 (14.0)	1.50 (38.1)	OR^-3-909	0.37 (0.17)
3/4"	OSPM-075-*^-^	0.79 (20.1)	1.50 (38.1)	OR^-3-913	0.64 (0.29)
1"	OSPM-100-*^-^	0.91 (23.1)	1.50 (38.1)	OR^-3-916	0.78 (0.35)
1-1/4"	OSPM-125-*^-^	1.18 (30.0)	1.50 (38.1)	OR^-3-918	0.86 (0.39)
1-1/2"	OSPM-150-*^-^	1.54 (39.1)	1.50 (38.1)	OR^-3-924	1.40 (0.64)
2"	OSPM-200-*^-^	1.91 (48.5)	1.50 (38.1)	OR^-3-928	1.49 (0.68)

* Materials:

Standard, No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
SS = Stainless Steel, Type 316.

Ordering Example: OSPM-200-SS-V

* Insert Material _____
^ Insert O-Ring Type _____

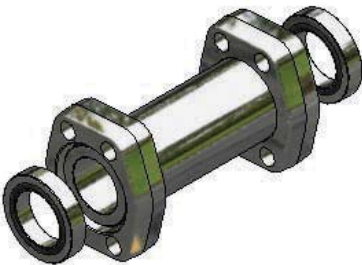
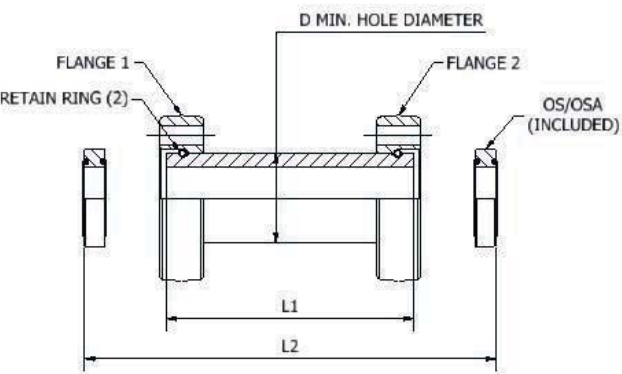
^ O-Ring Type:

Standard, No Designation = Buna Nitrile.
V = Viton.

SAE 6000

SAE 6000 PSI Retain Ring Bulkhead

SAE J518 Code 62 (ISO 6162-2)



- Complete Assembly Consists Of:
- One (1) retain ring flange bulkhead body
 - Two (2) retain ring flanges
 - Two (2) retain rings
 - Two (2) o-ring spacers
- To be Ordered Separately:
- Bolt Kit
- See page H25

A/RFBH - Retain Ring Flange Bulkhead								
Size	Complete Part Number	Dimensions in (mm)			Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		L1	L2	D				
1/2"	A/RFBH-050-FC64-FC64-*^-^	5.69 (144.6)	6.69 (170)	1.02 (26)	2.16 (0.98)	RFBH-050-*^-^	1.08 (0.49)	6000 (420)
3/4"	A/RFBH-075-FC64-FC64-*^-^	5.69 (144.6)	6.69 (170)	1.42 (36)	4.06 (1.85)	RFBH-075-*^-^	2.00 (0.91)	6000 (420)
1"	A/RFBH-100-FC64-FC64-*^-^	5.69 (144.6)	6.69 (170)	1.54 (39)	4.60 (2.09)	RFBH-100-*^-^	1.80 (0.82)	6000 (420)
1-1/4"	A/RFBH-125-FC64-FC64-*^-^	6.09 (154.6)	7.09 (180)	1.81 (46)	6.92 (3.15)	RFBH-125-*^-^	2.60 (1.18)	6000 (420)
1-1/2"	A/RFBH-150-FC64-FC64-*^-^	6.09 (154.6)	7.09 (180)	2.20 (56)	10.35 (4.70)	RFBH-150-*^-^	3.31 (1.50)	6000 (420)
2"	A/RFBH-200-FC64-FC64-*^-^	7.27 (184.6)	8.27 (210)	2.60 (66)	15.42 (7.00)	RFBH-200-*^-^	4.80 (2.18)	6000 (420)

Flange Options:
 Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.
 FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.
 FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

Materials
 No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).
 SS = Stainless Steel, Type 316.

^ O-Ring Type:
 No Designation = Buna Nitrile.
 V = Viton.

Ordering Example: A/RFBH-050-FC64-FC64-SS-V

Flange 1 Option _____

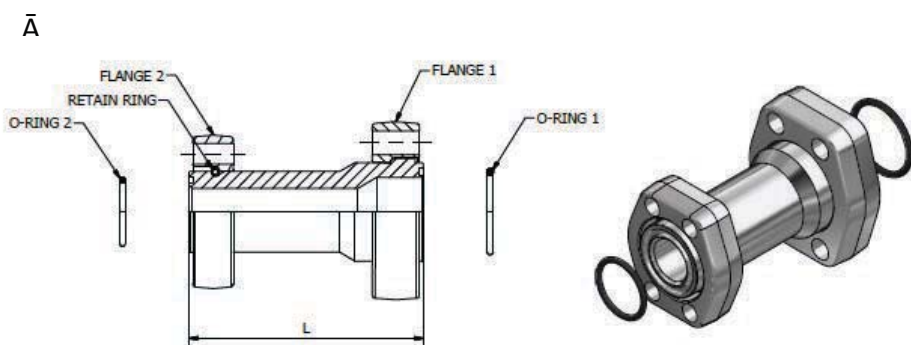
Flange 2 Option _____

* Insert Material _____

^ Insert O-Ring Type _____

SAE 6000 PSI Retain Ring Flange Concentric Reducer Assembly

SAE J518 Code 62 (ISO 6162-2)



Complete Assembly Consists Of:

- One (1) Concentric Reducer Body
- Two (2) Retain Ring Flanges
- One (1) Retain Ring
- Two (2) Buna O-Rings (Standard)

To be Ordered Separately:

- Bolt Kit
- See page H25

A/CR – Retain Ring Flange Concentric Reducer Assembly

Size	Complete Assembly Part Number	Dimensions in (mm)	O-Ring 1 (Buna)	O-Ring 2 (Buna)	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		L	Part Number	Part Number				
3/4" x 1/2"	A/CR-075x050-FC64-FC64-*^	3.72 (94.5)	OR^3-913	OR^3-909	2.15 (0.98)	CR-075x050-*^	0.88 (0.40)	6000 (420)
1" x 1/2"	A/CR-100x050-FC64-FC64-*^	3.72 (94.5)	OR^3-916	OR^3-909	2.57 (1.17)	CR-100x050-*^	0.97 (0.44)	6000 (420)
1" x 3/4"	A/CR-100x075-FC64-FC64-*^	4.50 (114.3)	OR^3-916	OR^3-913	3.50 (1.59)	CR-100x075-*^	1.49 (0.68)	6000 (420)
1-1/4" x 3/4"	A/CR-125x075-FC64-FC64-*^	4.50 (114.3)	OR^3-918	OR^3-913	4.42 (2.00)	CR-125x075-*^	1.71 (0.78)	6000 (420)
1-1/4" x 1"	A/CR-125x100-FC64-FC64-*^	4.50 (114.3)	OR^3-918	OR^3-916	4.95 (2.25)	CR-125x100-*^	1.90 (0.86)	6000 (420)
1-1/2" x 1"	A/CR-150x100-FC64-FC64-*^	4.50 (114.3)	OR^3-924	OR^3-916	6.44 (2.93)	CR-150x100-*^	2.11 (0.96)	6000 (420)
1-1/2" x 1-1/4"	A/CR-150x125-FC64-FC64-*^	5.26 (133.6)	OR^3-924	OR^3-918	7.60 (3.45)	CR-150x125-*^	2.56 (1.16)	6000 (420)
2" x 1-1/4"	A/CR-200x125-FC64-FC64-*^	5.26 (133.6)	OR^3-928	OR^3-918	10.22 (4.65)	CR-200x125-*^	3.50 (1.59)	6000 (420)
2" x 1-1/2"	A/CR-200x150-FC64-FC64-*^	5.26 (133.6)	OR^3-928	OR^3-924	11.75 (5.34)	CR-200x150-*^	3.74 (1.70)	6000 (420)

Flange Options:

Standard, FC64 = SAE 6000 PSI Code 62 (ISO 6162-2) Clearance Flange.

FT64 = SAE 6000 PSI Code 62 (ISO 6162-2) UNC Threaded Flange.

FTM64 = SAE 6000 PSI Code 62 (ISO 6162-2) Metric Threaded Flange.

Materials

No Designation = All Carbon Steel, Clear Zinc Plated (Cr6 Free).

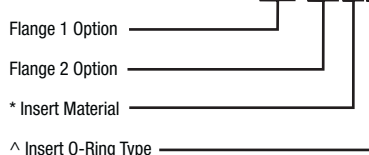
SS = Stainless Steel, Type 316.

^ O-Ring Type:

No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/CR-200x125-FC64-FC64-SS-V

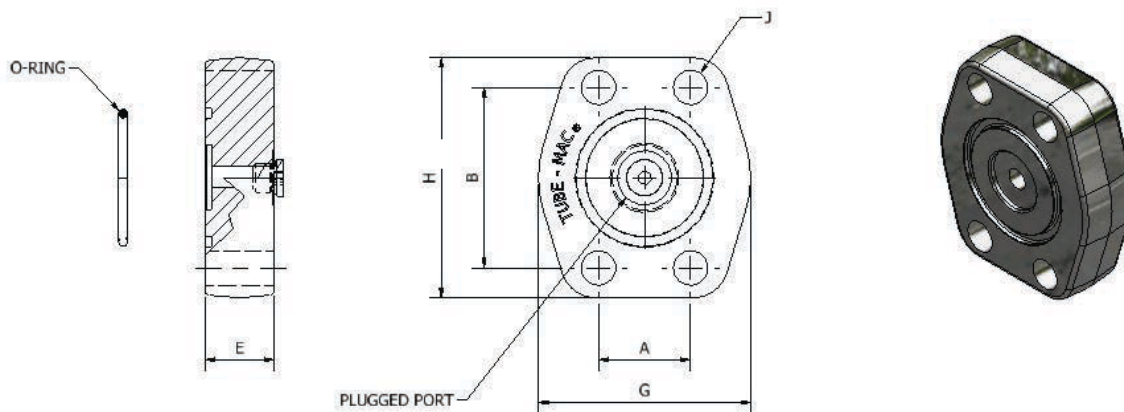


SAE 6000

SAE 6000 PSI Blanking Flange

O-Ring Face with Clearance Holes

SAE J518 Code 62 (ISO 6162-2)



BF064 – Blanking Flange Complete with Buna O-Ring (Standard) and #4 SAE Port (Plugged), NPS

Size	Blanking Flange Part Number	Dimensions (in)					Bolt Size J	O-Ring (Buna) Part Number	Working Pressure PSI (bar)	WT lbs (kg)
		A	B	G	H	E				
1/2"	BF064-050-*^-^	0.72	1.59	1.88	2.22	0.81	5/16"	OR*-2-210	6000 (420)	0.53 (0.24)
3/4"	BF064-075-*^-^	0.94	2.00	2.38	2.81	1.02	3/8"	OR*-2-214	6000 (420)	1.08 (0.49)
1"	BF064-100-*^-^	1.09	2.25	2.75	3.19	1.03	7/16"	OR*-2-219	6000 (420)	1.70 (0.77)
1-1/4"	BF064-125-*^-^	1.25	2.63	3.06	3.75	1.25	1/2"	OR*-2-222	6000 (420)	2.63 (1.20)
1-1/2"	BF064-150-*^-^	1.44	3.13	3.75	4.44	1.38	5/8"	OR*-2-225	6000 (420)	3.90 (1.77)
2"	BF064-200-*^-^	1.75	3.81	4.50	5.25	1.68	3/4"	OR*-2-228	6000 (420)	5.66 (2.57)

BFOM64 – Blanking Flange Complete with Nitrile O-Ring (Standard) and G1/4 BSPP Port (Plugged,) Metric

Size	Blanking Flange Part Number	Dimensions (mm)					Bolt Size J	O-Ring (Buna) Part Number	Working Pressure PSI (bar)	WT lbs (kg)
		A	B	G	H	E				
1/2"	BFOM64-050-*^-^	18.3	40.4	47.8	56.4	20.6	M8	OR*-2-210	6000 (420)	0.53 (0.24)
3/4"	BFOM64-075-*^-^	23.9	50.8	60.5	71.4	25.9	M10	OR*-2-214	6000 (420)	1.08 (0.49)
1"	BFOM64-100-*^-^	27.7	57.2	69.9	81.0	26.2	M12	OR*-2-219	6000 (420)	1.70 (0.77)
1-1/4"	BFOM64-125-*^-^	31.8	66.8	77.7	95.3	31.8	M12	OR*-2-222	6000 (420)	2.63 (1.20)
1-1/2"	BFOM64-150-*^-^	36.6	79.5	95.3	112.8	35.1	M16	OR*-2-225	6000 (420)	3.90 (1.77)
2"	BFOM64-200-*^-^	44.5	96.8	114.3	133.4	42.7	M20	OR^-2-228	6000 (420)	5.66 (2.57)

* Materials:

Standard, No Designation = Carbon Steel, Clear Zinc Plated (Cr6 Free).

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: BF064-200-SS-V

* Insert Material

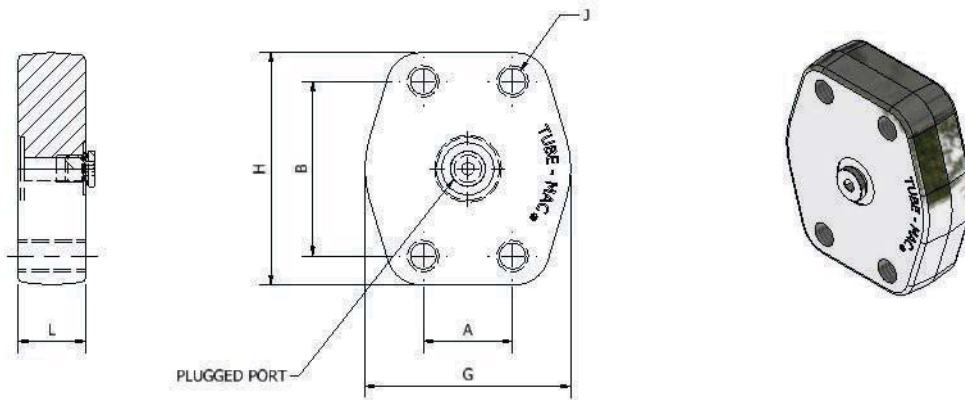
^ Insert O-Ring 2 Type

3D step models available upon request

SAE 6000 PSI Blanking Flange

Flat Face with Threaded Holes

SAE J518 Code 62 (ISO 6162-2)



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BFF64 – Blanking Flange Flat Face with #4 SAE Port (Plugged) and UNC Threaded Holes, NPS

Size	Blanking Flange Part Number	Dimensions (in)					Thread UNC-2B J	Working Pressure PSI (bar)	WT lbs (kg)
		A	B	G	H	E			
1/2"	BFF64-050-*	.72	1.59	1.88	2.22	0.81	5/16"-18	6000 (420)	0.56 (0.25)
3/4"	BFF64-075-*	.94	2.00	2.38	2.81	1.02	3/8"-16	6000 (420)	1.08 (0.49)
1"	BFF64-100-*	1.09	2.25	2.75	3.19	1.03	7/16"-14	6000 (420)	1.79 (0.81)
1-1/4"	BFF64-125-*	1.25	2.63	3.06	3.75	1.25	1/2"-13	6000 (420)	2.74 (1.25)
1-1/2"	BFF64-150-*	1.44	3.13	3.75	4.44	1.38	5/8"-11	6000 (420)	4.01 (1.82)
2"	BFF64-200-*	1.75	3.81	4.50	5.25	1.68	3/4"-10	6000 (420)	5.82 (2.65)

BFFM64 – Blanking Flange Flat Face with G1/4 BSPP Port (Plugged) and Threaded Holes, Metric

Size	Blanking Flange Part Number	Dimensions (mm)					Thread J	Working Pressure PSI (bar)	WT lbs (kg)
		A	B	G	H	E			
1/2"	BFFM64-050-*	18.3	40.4	47.8	56.4	20.6	M8 x 1.25	6000 (420)	0.56 (0.25)
3/4"	BFFM64-075-*	23.9	50.8	60.5	71.4	25.9	M10 x 1.50	6000 (420)	1.08 (0.49)
1"	BFFM64-100-*	27.7	57.2	69.9	81.0	26.2	M12 x 1.75	6000 (420)	1.79 (0.81)
1-1/4"	BFFM64-125-*	31.8	66.8	77.7	95.3	31.8	M12 x 1.75	6000 (420)	2.74 (1.25)
1-1/2"	BFFM64-150-*	36.6	79.5	95.3	112.8	35.1	M16 x 2.00	6000 (420)	4.01 (1.82)
2"	BFFM64-200-*	44.5	96.8	114.3	133.4	42.7	M20 x 2.50	6000 (420)	5.82 (2.65)

* Materials:

Standard, No Designation = Carbon Steel, Clear Zinc Plated (Cr6 Free).

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

Ordering Example: BFF64-200-SS

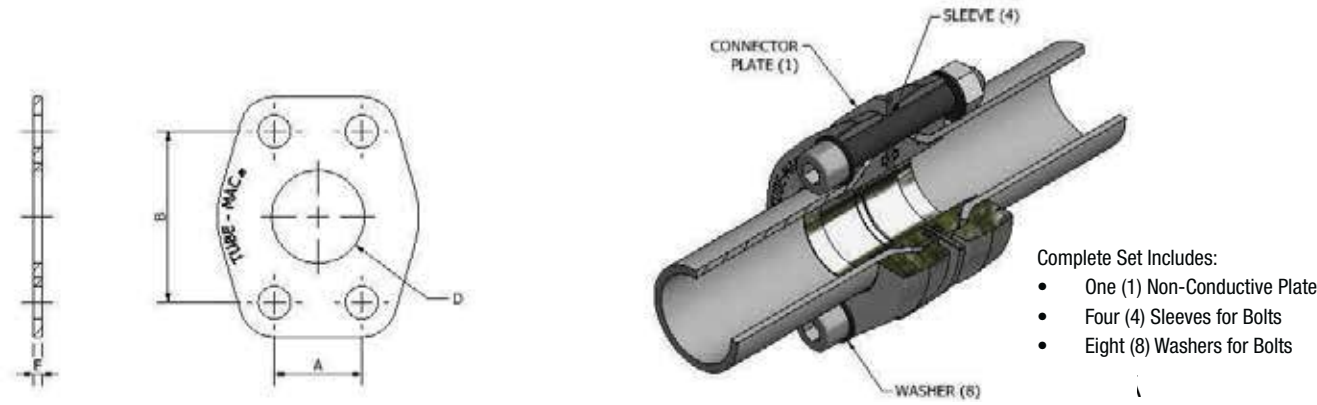
* Insert Material

SAE 6000

SAE 6000 PSI Non-Conductive Connector Plate

with Bolt Isolation

SAE J518 Code 62 (ISO 6162-2)



NCCP – Non-Conductive Connector Plate						
Size	Part Number	Dimensions in (mm)				WT lbs (kg)
		A	B	D	E	
1/2"	NCCP64-050	0.69 (17.53)	1.50 (38.10)	0.50 (12.70)	0.12 (3.05)	0.09 (0.04)
3/4"	NCCP64-075	0.88 (22.35)	1.88 (47.75)	0.75 (19.05)	0.12 (3.05)	0.12 (0.05)
1"	NCCP64-100	1.03 (26.16)	2.06 (52.32)	0.94 (23.88)	0.12 (3.05)	0.14 (0.06)
1-1/4"	NCCP64-125	1.19 (30.23)	2.31 (58.67)	1.25 (31.75)	0.12 (3.05)	0.20 (0.09)
1-1/2"	NCCP64-150	1.41 (35.81)	2.75 (69.85)	1.50 (38.10)	0.12 (3.05)	0.28 (0.13)
2"	NCCP64-200	1.69 (42.93)	3.06 (77.72)	1.94 (49.28)	0.12 (3.05)	0.33 (0.15)

Notes:
Flanges, Cone Inserts and Bolts Sold Separately
Must use Two (2) O-Ring Face Cone Inserts