

SAE 3000 PSI, 210 bar Reference Guide

					
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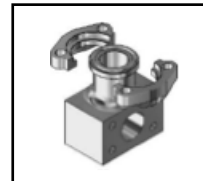
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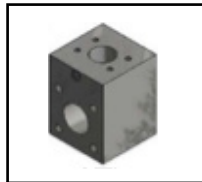
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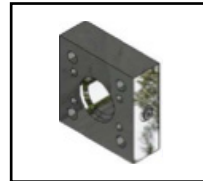
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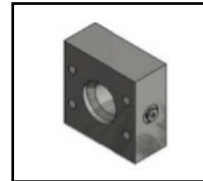
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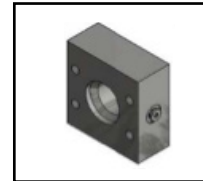
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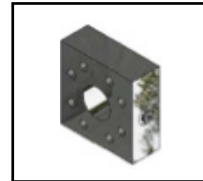
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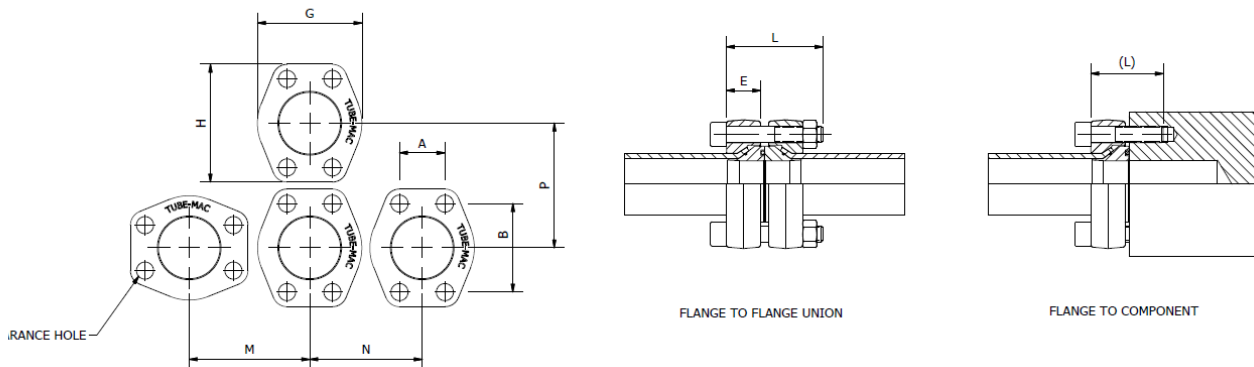


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SAE 3000 PSI Flare Flange Dimensions

SAE J518 Code 61 (ISO 6162-1)



Flare Flange Dimensions, NPS

Size	Dimensions (in)								SHCS Bolt (in)* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1/2"	0.69	1.50	1.81	2.22	2.05	1.93	2.32	0.81	5/16"-18 UNC x 2.25 (1.50)	5000 (350)
3/4"	0.88	1.88	2.06	2.56	2.40	2.17	2.68	0.82	3/8"-16 UNC x 2.50 (1.50)	5000 (350)
1"	1.03	2.06	2.31	2.76	2.64	2.44	2.87	0.87	3/8"-16 UNC x 2.50 (1.50)	5000 (350)
1-1/4"	1.19	2.31	2.88	3.11	3.11	2.99	3.23	0.91	7/16"-14 UNC x 2.50 (1.75)	4000 (280)
1-1/2"	1.41	2.75	3.25	3.66	3.58	3.35	3.78	1.06	1/2"-13 UNC x 3.00 (2.00)	4000 (280)
2"	1.69	3.06	3.81	4.02	4.02	3.94	4.13	1.22	1/2"-13 UNC x 3.50 (2.00)	4000 (280)
2-1/2"	2.00	3.50	4.28	4.49	4.49	4.37	4.61	1.40	1/2"-13 UNC x 4.00 (2.50)	3000 (210)
3"	2.44	4.19	5.16	5.28	5.35	5.24	5.39	1.67	5/8"-11 UNC x 4.50 (2.75)	3000 (210)

* SHCS Bolt Specification

Carbon Steel: ASTM A574

316 Stainless Steel: ASTM A193 - B8M Class.1

Flare Flange Dimensions, Metric

Size	Dimensions (mm)								SHCS Bolt (mm)* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1/2"	17.5	38.1	46.0	56.9	52.1	49.0	58.9	20.6	M8 x 60 (40)	5000 (350)
3/4"	22.4	47.8	52.3	65.0	61.0	55.1	68.1	20.8	M10 x 65 (40)	5000 (350)
1"	26.2	52.3	58.7	70.1	67.1	62.0	72.9	22.1	M10 x 65(40)	5000 (350)
1-1/4"	30.2	58.7	73.2	79.0	79.0	75.9	82.0	23.1	M10 x 65 (45)	4000 (280)
1-1/2"	35.8	69.9	82.6	93.0	90.9	85.1	96.0	26.9	M12 x 75 (50)	4000 (280)
2"	42.9	77.7	96.8	102.1	102.1	100.1	104.9	31.0	M12 x 90 (50)	4000 (280)
2-1/2"	50.8	88.9	108.7	114.0	114.0	111.0	117.1	35.6	M12 x 100 (65)	3000 (210)
3"	62.0	106.4	131.1	134.1	135.9	133.1	136.9	42.4	M16 x 120 (70)	3000 (210)

* SHCS Bolt Specification

Carbon Steel: DIN 912/ISO 4762

- Minimum Grade 8.8

316 Stainless Steel: A4-70, DIN 912/ISO 4762

- For M16 SS Bolts A4-80, DIN 912/ISO 4762

3D step models available upon request

TUBE-MAC.com

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16 bar,
90° Flare

ANSI 150#,
300# Flare

SAE 1000,
70 bar

SAE 3000,
210 bar

SAE 6000,
420 bar

SAE 10000,
690 bar

ISO 6164,
400 bar

ISO 6164,
400 bar
F10° Flare

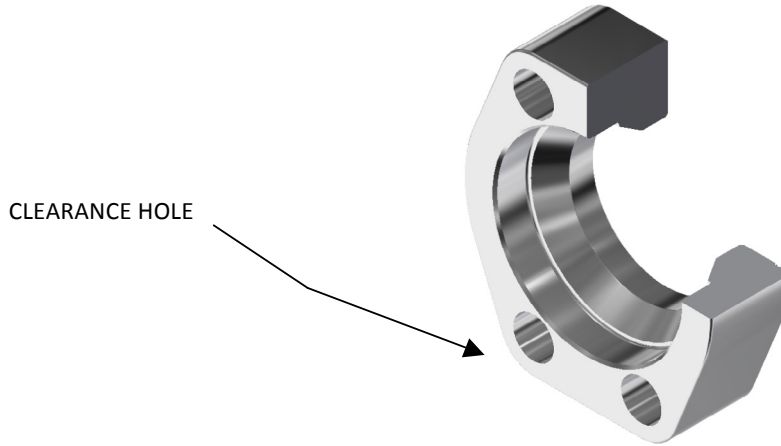
Clamp
Supports -
Heavy Series

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SAE 3000 PSI Flare Flange with Clearance Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



FFC34 - 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	FFC34-050-*	5000 (350)	0.44 (0.20)
3/4"	1.050	FFC34-075-*	5000 (350)	0.63 (0.29)
1"	1.315	FFC34-100-*	5000 (350)	0.72 (0.33)
1-1/4"	1.660	FFC34-125-*	4000 (280)	1.05 (0.48)
1-1/2"	1.900	FFC34-150-*	4000 (280)	1.59 (0.72)
2"	2.375	FFC34-200-*	4000 (280)	2.31 (1.05)
2-1/2"	2.875	FFC34-250-*	3000 (210)	3.02 (1.37)
3"	3.500	FFC34-300-*	3000 (210)	4.96 (2.25)

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.

HDG = Carbon Steel, Hot Dip Galvanized.

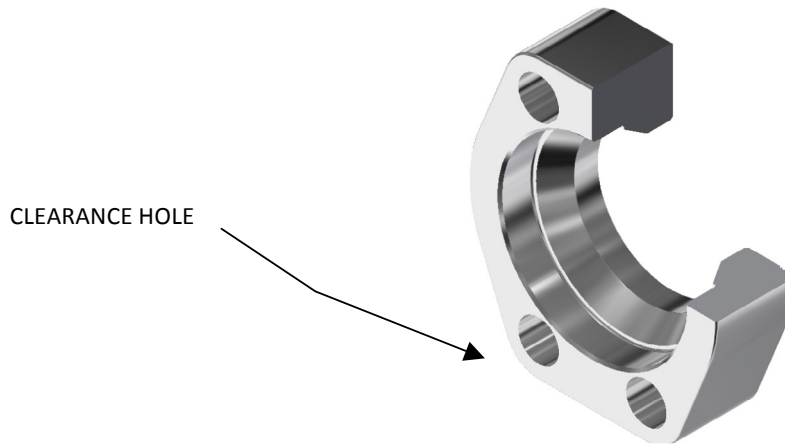
SS = Stainless Steel, Type 316.

Ordering Example: FFC34-200-SS

* Insert Material

SAE 3000 PSI Flare Flange with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



FFCM34 – Flare Flange with Clearance Holes, Metric

Size	Pipe O.D. (mm)	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1/2"	16	FFCM34-050-16MM-*	5000 (350)	0.50 (0.23)
1/2"	18	FFCM34-050-18MM-*	5000 (350)	0.48 (0.22)
1/2"	20	FFCM34-050-20MM-*	5000 (350)	0.45 (0.20)
1/2"	25	FFCM34-050-25MM-*	5000 (350)	0.43 (0.20)
3/4"	20	FFCM34-075-20MM-*	5000 (350)	0.66 (0.30)
3/4"	25	FFCM34-075-25MM-*	5000 (350)	0.64 (0.29)
3/4"	30	FFCM34-075-30MM-*	5000 (350)	0.59 (0.27)
1"	25	FFCM34-100-25MM-*	5000 (350)	0.81 (0.37)
1"	30	FFCM34-100-30MM-*	5000 (350)	0.74 (0.34)
1"	38	FFCM34-100-38MM-*	5000 (350)	0.67 (0.30)
1-1/4"	30	FFCM34-125-30MM-*	4000 (280)	1.23 (0.56)
1-1/4"	38	FFCM34-125-38MM-*	4000 (280)	1.13 (0.51)
1-1/4"	42	FFC34-125-*	4000 (280)	1.07 (0.49)
1-1/2"	30	FFCM34-150-30MM-*	4000 (280)	2.06 (0.93)
1-1/2"	38	FFCM34-150-38MM-*	4000 (280)	1.90 (0.86)
1-1/2"	42	FFCR34-150x125-*	4000 (280)	1.94 (0.88)
1-1/2"	50	FFCM34-150-50MM-*	4000 (280)	1.55 (0.70)
2"	50	FFCM34-200-50MM-*	4000 (280)	2.61 (1.18)
2"	60	FFC34-200-*	4000 (280)	2.32 (1.05)
2-1/2"	60	FFCR34-250-200-*	3000 (210)	3.59 (1.63)
2-1/2"	73	FFC34-250-*	3000 (210)	3.03 (1.37)
2-1/2"	75	FFCM34-250-75MM-*	3000 (210)	2.97 (1.35)
3"	75	FFCM34-300-75MM-*	3000 (210)	5.95 (2.70)
3"	90	FFCM34-300-90MM-*	3000 (210)	4.91 (2.23)

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

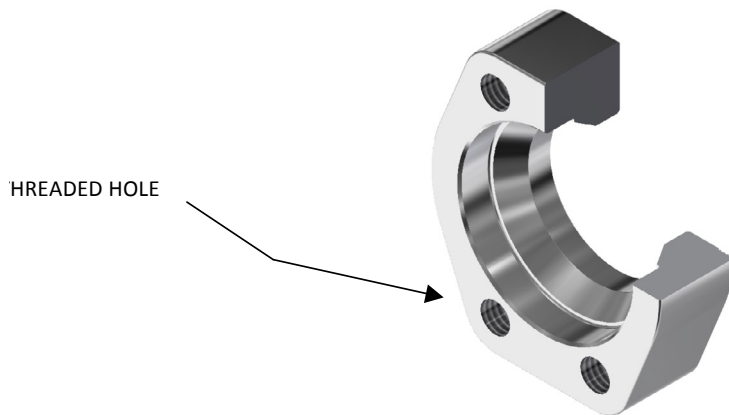
Ordering Example: FFCM34-200-50MM-SS

* Insert Material

3D step models available upon request

SAE 3000 PSI Flare Flange with Threaded Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



FFT34 - Flare Flange with Threaded Holes, NPS

Size	Pipe O.D. (in)	Standard Part Number	Working Pressure PSI (bar)	Weight lbs (kg)
1/2"	0.840	FFT34-050-*	5000 (350)	0.49 (0.22)
3/4"	1.050	FFT34-075-*	5000 (350)	0.70 (0.32)
1"	1.315	FFT34-100-*	5000 (350)	0.79 (0.36)
1-1/4"	1.660	FFT34-125-*	4000 (280)	1.12 (0.51)
1-1/2"	1.900	FFT34-150-*	4000 (280)	1.70 (0.77)
2"	2.375	FFT34-200-*	4000 (280)	2.42 (1.10)
2-1/2"	2.875	FFT34-250-*	3000 (210)	3.16 (1.43)
3"	3.500	FFT34-300-*	3000 (210)	5.21 (2.36)

*** Materials:**

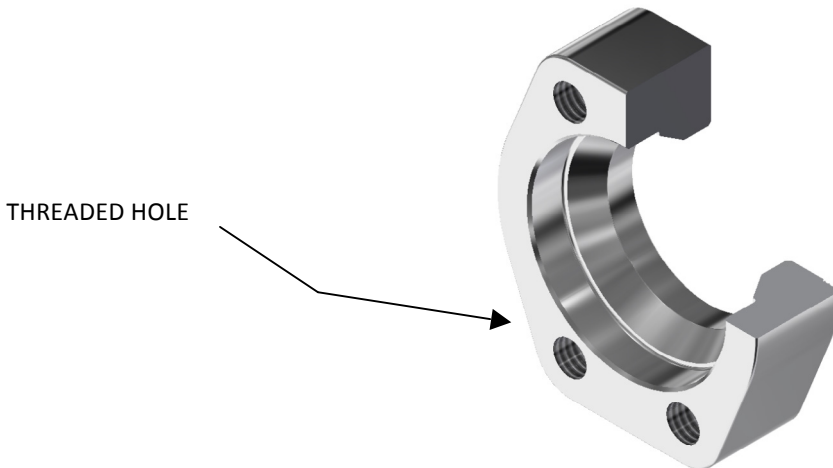
Standard, No Designation = Carbon Steel, Zinc Nickel Plated.
 HDG = Carbon Steel, Hot Dip Galvanized.
 SS = Stainless Steel, Type 316.

Ordering Example: FFT34-200-SS

* Insert Material

SAE 3000 PSI Flare Flange with Threaded Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



FFTM34 - Flare Flange with Threaded Holes, Metric

Size	Pipe O.D. (mm)	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1/2"	16	FFTM34-050-16MM-*	5000 (350)	0.54 (0.24)
1/2"	18	FFTM34-050-18MM-*	5000 (350)	0.52 (0.24)
1/2"	20	FFTM34-050-20MM-*	5000 (350)	0.49 (0.22)
1/2"	25	FFTM34-050-25MM-*	5000 (350)	0.47 (0.21)
3/4"	20	FFTM34-075-20MM-*	5000 (350)	0.72 (0.33)
3/4"	25	FFTM34-075-25MM-*	5000 (350)	0.70 (0.32)
3/4"	30	FFTM34-075-30MM-*	5000 (350)	0.64 (0.29)
1"	25	FFTM34-100-25MM-*	5000 (350)	0.87 (0.39)
1"	30	FFTM34-100-30MM-*	5000 (350)	0.81 (0.37)
1"	38	FFTM34-100-38MM-*	5000 (350)	0.73 (0.33)
1-1/4"	30	FFTM34-125-30MM-*	4000 (280)	1.29 (0.59)
1-1/4"	38	FFTM34-125-38MM-*	4000 (280)	1.20 (0.54)
1-1/4"	42	FFTM34-125-42MM-*	4000 (280)	1.15 (0.52)
1-1/2"	30	FFTM34-150-30MM-*	4000 (280)	2.18 (0.99)
1-1/2"	38	FFTM34-150-38MM-*	4000 (280)	2.01 (0.91)
1-1/2"	42	FFTM34-150-42MM-*	4000 (280)	1.82 (0.83)
1-1/2"	50	FFTM34-150-50MM-*	4000 (280)	1.67 (0.76)
2"	50	FFTM34-200-50MM-*	4000 (280)	2.68 (1.22)
2"	60	FFTM34-200-60MM-*	4000 (280)	2.45 (1.11)
2-1/2"	60	FFTM34-250-60MM-*	3000 (210)	3.75 (1.70)
2-1/2"	73	FFTM34-250-73MM-*	3000 (210)	3.18 (1.44)
2-1/2"	75	FFTM34-250-75MM-*	3000 (210)	3.18 (1.44)
3"	75	FFTM34-300-75MM-*	3000 (210)	6.17 (2.80)
3"	90	FFTM34-300-90MM-*	3000 (210)	5.13 (2.33)

*** Materials:**

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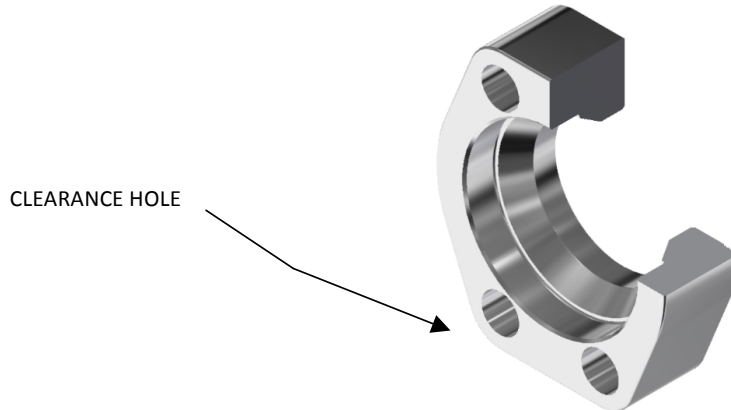
Ordering Example: FFTM34-200-50MM-SS

* Insert Material

3D step models available upon request

SAE 3000 PSI Flare Flange - Reducing with Clearance Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



Note:
Reducing Flanges
for NPS Pipe Only

FFCR34 - 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"	FFCR34-075 x 050	5000 (350)	0.63 (0.28)
1" x 3/4"	FFCR34-100 x 075	5000 (350)	0.73 (0.33)
1-1/4" x 1"	FFCR34-125 x 100	5000 (350)	1.10 (0.50)
1-1/2" x 1-1/4"	FFCR34-150 x 125	4000 (280)	1.53 (0.69)
2" x 1-1/2"	FFCR34-200 x 150	4000 (280)	2.22 (1.01)
2-1/2" x 2"	FFCR34-250 x 200	4000 (280)	3.60 (1.60)
3" x 2-1/2"	FFCR34-300 x 250	3000 (210)	5.90 (2.68)

*** Materials:**

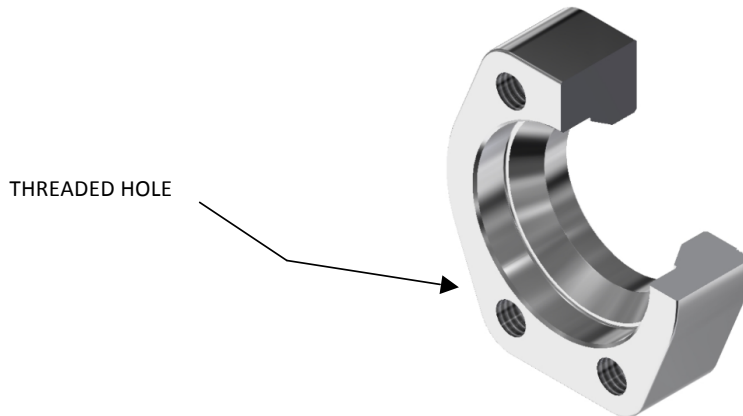
Standard, No Designation = Carbon Steel, Zinc Nickel Plated.
 HDG = Carbon Steel, Hot Dip Galvanized.
 SS = Stainless Steel, Type 316.

Ordering Example: FFCR34-075 x 050-SS

* Insert Material _____

SAE 3000 PSI Flare Flange - Reducing with Threaded Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



Note:
Reducing Flanges
for NPS Pipe Only

FFTR34 - 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"	FFTR34-075 x 050	5000 (350)	0.63 (0.28)
1" x 3/4"	FFTR34-100 x 075	5000 (350)	0.73 (0.33)
1-1/4" x 1"	FFTR34-125 x 100	5000 (350)	1.10 (0.50)
1-1/2" x 1-1/4"	FFTR34-150 x 125	4000 (280)	1.53 (0.69)
2" x 1-1/2"	FFTR34-200 x 150	4000 (280)	2.22 (1.01)
2-1/2" x 2"	FFTR34-250 x 200	4000 (280)	3.60 (1.60)
3" x 2-1/2"	FFTR34-300 x 250	3000 (210)	5.90 (2.68)

*** Materials:**

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HDG = Carbon Steel, Hot Dip Galvanized.
SS = Stainless Steel, Type 316.

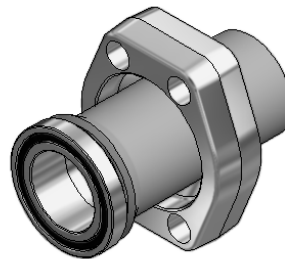
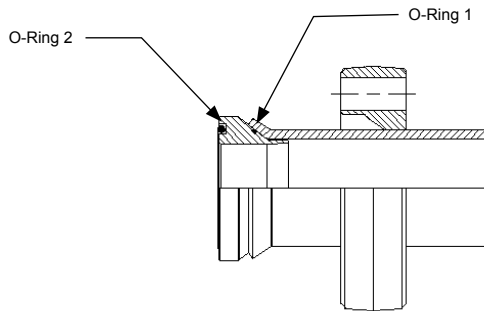
Ordering Example: FFTR34-075 x 050-SS

* Insert Material _____

3D step models available upon request

SAE 3000 PSI Flare Flange Set O-Ring Face with Clearance Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFC34 - CO Flare Flange Set - O-Ring Face with Clearance Holes, NPS

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	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	FFC34-CO-SCH40-050-*^	0.60 (0.27)	FFC34-050-*	CO-SCH40-050-*^	ORV-1915	OR^2-210
1/2"	1/2" SCH80	FFC34-CO-SCH80-050-*^	0.59 (0.27)	FFC34-050-*	CO-SCH80-050-*^	ORV-1715	OR^2-210
3/4"	3/4" SCH40	FFC34-CO-SCH40-075-*^	0.72 (0.33)	FFC34-075-*	CO-SCH40-075-*^	ORV-2515	OR^2-214
3/4"	3/4" SCH80	FFC34-CO-SCH80-075-*^	0.72 (0.33)	FFC34-075-*	CO-SCH80-075-*^	ORV-2315	OR^2-214
1"	1" SCH40	FFC34-CO-SCH40-100-*^	0.94 (0.43)	FFC34-100-*	CO-SCH40-100-*^	ORV-3015	OR^2-219
1"	1" SCH80	FFC34-CO-SCH80-100-*^	0.94 (0.43)	FFC34-100-*	CO-SCH80-100-*^	ORV-2815	OR^2-219
1-1/4"	1-1/4" SCH40	FFC34-CO-SCH40-125-*^	1.26 (0.57)	FFC34-125-*	CO-SCH40-125-*^	ORV-3815	OR^2-222
1-1/4"	1-1/4" SCH80	FFC34-CO-SCH80-125-*^	1.26 (0.57)	FFC34-125-*	CO-SCH80-125-*^	ORV-3815	OR^2-222
1-1/2"	1-1/2" SCH40	FFC34-CO-SCH40-150-*^	1.93 (0.88)	FFC34-150-*	CO-SCH40-150-*^	ORV-4315	OR^2-225
1-1/2"	1-1/2" SCH80	FFC34-CO-SCH80-150-*^	1.95 (0.88)	FFC34-150-*	CO-SCH80-150-*^	ORV-4315	OR^2-225
1-1/2"	1-1/2" SCH160	FFC34-CO-SCH160-150-*^	2.03 (0.92)	FFC34-150-*	CO-SCH160-150-*^	ORV-3815	OR^2-225
2"	2" SCH40	FFC34-CO-SCH40-200-*^	2.67 (1.21)	FFC34-200-*	CO-SCH40-200-*^	ORV-5615	OR^2-228
2"	2" SCH80	FFC34-CO-SCH80-200-*^	2.70 (1.22)	FFC34-200-*	CO-SCH80-200-*^	ORV-5515	OR^2-228
2"	2" SCH160	FFC34-CO-SCH160-200-*^	2.90 (1.32)	FFC34-200-*	CO-SCH160-200-*^	ORV-5015	OR^2-228
2-1/2"	2-1/2" SCH40	FFC34-CO-SCH40-250-*^	4.01 (1.82)	FFC34-250-*	CO-SCH40-250-*^	ORV-2-036	OR^2-232
2-1/2"	2-1/2" SCH80	FFC34-CO-SCH80-250-*^	4.05 (1.84)	FFC34-250-*	CO-SCH80-250-*^	ORV-2-036	OR^2-232
2-1/2"	2-1/2" SCH160	FFC34-CO-SCH160-250-*^	4.47 (2.03)	FFC34-250-*	CO-SCH160-250-*^	ORV-5615	OR^2-232
3"	3" SCH40	FFC34-CO-SCH40-300-*^	6.33 (2.87)	FFC34-300-*	CO-SCH40-300-*^	ORV-2-041	OR^2-237
3"	3" SCH80	FFC34-CO-SCH80-300-*^	6.40 (2.90)	FFC34-300-*	CO-SCH80-300-*^	ORV-2-041	OR^2-237

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

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.

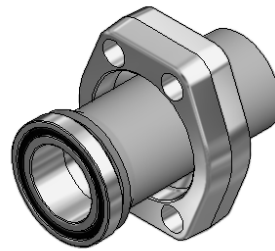
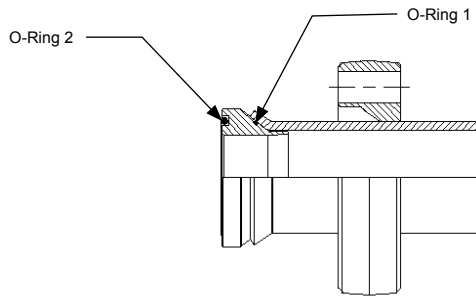
Ordering Example: FFC34-CO-SCH80-200-SS-V

* Insert Material

^ Insert O-Ring 2 Type

SAE 3000 PSI Flare Flange Set O-Ring Face with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFCM34 - CO - Flare Flange Set O-Ring Face with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	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	FFCM34-CO-20x2.0-050-*^-^	0.67 (0.30)	FFCM34-050-20MM-*	CO-20x2.0-050-*^-^	ORV-1715	OR^-2-210
1/2"	20x3.0	FFCM34-CO-20x3.0-050-*^-^	0.67 (0.30)	FFCM34-050-20MM-*	CO-20x3.0-050-*^-^	ORV-1715	OR^-2-210
1/2"	25x2.5	FFCM34-CO-25x2.5-050-*^-^	0.67 (0.30)	FFCM34-050-25MM-*	CO-25x2.5-050-*^-^	ORV-2315	OR^-2-210
1/2"	25x3.0	FFCM34-CO-25x3.0-050-*^-^	0.67 (0.30)	FFCM34-050-25MM-*	CO-25x3.0-050-*^-^	ORV-2315	OR^-2-210
3/4"	20x2.0	FFCM34-CO-20x2.0-075-*^-^	0.70 (0.32)	FFCM34-075-20MM-*	CO-20x2.0-075-*^-^	ORV-1715	OR^-2-214
3/4"	20x2.5	FFCM34-CO-20x2.5-075-*^-^	0.70 (0.32)	FFCM34-075-20MM-*	CO-20x2.5-075-*^-^	ORV-1715	OR^-2-214
3/4"	20x3.0	FFCM34-CO-20x3.0-075-*^-^	0.70 (0.32)	FFCM34-075-20MM-*	CO-20x3.0-075-*^-^	ORV-1715	OR^-2-214
3/4"	25x2.5	FFCM34-CO-25x2.5-075-*^-^	0.70 (0.32)	FFCM34-075-25MM-*	CO-25x2.5-075-*^-^	ORV-2315	OR^-2-214
3/4"	25x3.0	FFCM34-CO-25x3.0-075-*^-^	0.70 (0.32)	FFCM34-075-25MM-*	CO-25x3.0-075-*^-^	ORV-2315	OR^-2-214
3/4"	25x4.0	FFCM34-CO-25x4.0-075-*^-^	0.70 (0.32)	FFCM34-075-25MM-*	CO-25x4.0-075-*^-^	ORV-2315	OR^-2-214
3/4"	30x3.0	FFCM34-CO-30x3.0-075-*^-^	0.72 (0.33)	FFCM34-075-30MM-*	CO-30x3.0-075-*^-^	ORV-2515	OR^-2-214
1"	25x2.5	FFCM34-CO-25x2.5-100-*^-^	0.82 (0.37)	FFCM34-100-25MM-*	CO-25x2.5-100-*^-^	ORV-2315	OR^-2-219
1"	25x3.0	FFCM34-CO-25x3.0-100-*^-^	0.82 (0.37)	FFCM34-100-25MM-*	CO-25x3.0-100-*^-^	ORV-2315	OR^-2-219
1"	25x4.0	FFCM34-CO-25x4.0-100-*^-^	0.82 (0.37)	FFCM34-100-25MM-*	CO-25x4.0-100-*^-^	ORV-2315	OR^-2-219
1"	30x3.0	FFCM34-CO-30x3.0-100-*^-^	0.84 (0.38)	FFCM34-100-30MM-*	CO-30x3.0-100-*^-^	ORV-2815	OR^-2-219
1"	30x4.0	FFCM34-CO-30x4.0-100-*^-^	0.84 (0.38)	FFCM34-100-30MM-*	CO-30x4.0-100-*^-^	ORV-2815	OR^-2-219
1"	30x5.0	FFCM34-CO-30x5.0-100-*^-^	0.84 (0.38)	FFCM34-100-30MM-*	CO-30x5.0-100-*^-^	ORV-2815	OR^-2-219
1"	38x3.0	FFCM34-CO-38x3.0-100-*^-^	0.85 (0.38)	FFCM34-100-38MM-*	CO-38x3.0-100-*^-^	ORV-3515	OR^-2-219
1"	38x4.0	FFCM34-CO-38x4.0-100-*^-^	0.86 (0.39)	FFCM34-100-38MM-*	CO-38x4.0-100-*^-^	ORV-3515	OR^-2-219
1"	38x5.0	FFCM34-CO-38x5.0-100-*^-^	0.86 (0.39)	FFCM34-100-38MM-*	CO-38x6.0-100-*^-^	ORV-3215	OR^-2-219
1-1/4"	30x3.0	FFCM34-CO-30x3.0-125-*^-^	1.07 (0.49)	FFCM34-125-30MM-*	CO-30x3.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4"	30x4.0	FFCM34-CO-30x4.0-125-*^-^	1.07 (0.49)	FFCM34-125-30MM-*	CO-30x4.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4"	30x5.0	FFCM34-CO-30x5.0-125-*^-^	1.07 (0.49)	FFCM34-125-30MM-*	CO-30x5.0-125-*^-^	ORV-2815	OR^-2-222
1-1/4"	38x4.0	FFCM34-CO-38x4.0-125-*^-^	1.09 (0.50)	FFCM34-125-38MM-*	CO-38x4.0-125-*^-^	ORV-3515	OR^-2-222
1-1/4"	38x5.0	FFCM34-CO-38x5.0-125-*^-^	1.09 (0.50)	FFCM34-125-38MM-*	CO-38x5.0-125-*^-^	ORV-3015	OR^-2-222
1-1/4"	42x3.0	FFCM34-CO-42x3.0-125-*^-^	1.14 (0.52)	FFC34-125-*	CO-42x3.0-125-*^-^	ORV-3815	OR^-2-222
1-1/4"	42x4.0	FFCM34-CO-42x4.0-125-*^-^	1.14 (0.52)	FFC34-125-*	CO-42x4.0-125-*^-^	ORV-3815	OR^-2-222

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

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: FFCM34-CO-SCH80-200-SS-V

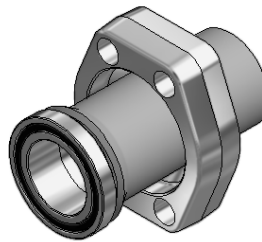
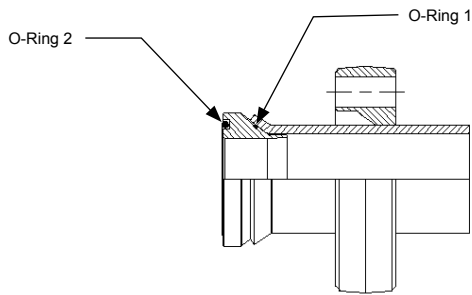
* Insert Material

^ Insert O-Ring 2 Type

3D step models available upon request

SAE 3000 PSI Flare Flange Set O-Ring Face with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFCM34-CO Flare Flange Set - O-Ring Face with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	Flange Part Number	O-Ring Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1-1/2"	30x3.0	FFCM34-CO-30x3.0-150-*^-^	1.86 (0.85)	FFCM34-150-30MM-*	CO-30x3.0-150-*^-^	ORV-2815	OR^-2-225
1-1/2"	38x4.0	FFCM34-CO-38x4.0-150-*^-^	1.89 (0.86)	FFCM34-150-38MM-*	CO-38x4.0-150-*^-^	ORV-3215	OR^-2-225
1-1/2"	38x6.0	FFCM34-CO-38x6.0-150-*^-^	1.89 (0.86)	FFCM34-150-38MM-*	CO-38x6.0-150-*^-^	ORV-3215	OR^-2-225
1-1/2"	42x3.0	FFCM34-CO-42x3.0-150-*^-^	1.89 (0.86)	FFCM34-150-42MM-*	CO-42x3.0-150-*^-^	ORV-3815	OR^-2-225
1-1/2"	42x4.0	FFCM34-CO-42x4.0-150-*^-^	1.89 (0.86)	FFCM34-150-42MM-*	CO-42x4.0-150-*^-^	ORV-3815	OR^-2-225
1-1/2"	50x3.0	FFCM34-CO-50x3.0-150-*^-^	1.91 (0.87)	FFCM34-150-50MM-*	CO-50x3.0-150-*^-^	ORV-4715	OR^-2-225
1-1/2"	50x5.0	FFCM34-CO-50x5.0-150-*^-^	1.91 (0.87)	FFCM34-150-50MM-*	CO-50x5.0-150-*^-^	ORV-4515	OR^-2-225
1-1/2"	50x6.0	FFCM34-CO-50x6.0-150-*^-^	1.91 (0.87)	FFCM34-150-50MM-*	CO-50x6.0-150-*^-^	ORV-4515	OR^-2-225
2"	50x3.0	FFCM34-CO-50x3.0-200-*^-^	2.61 (1.19)	FFCM34-200-50MM-*	CO-50x3.0-200-*^-^	ORV-4515	OR^-2-228
2"	50x5.0	FFCM34-CO-50x5.0-200-*^-^	2.61 (1.19)	FFCM34-200-50MM-*	CO-50x5.0-200-*^-^	ORV-4515	OR^-2-228
2"	50x6.0	FFCM34-CO-50x6.0-200-*^-^	2.61 (1.19)	FFCM34-200-50MM-*	CO-50x6.0-200-*^-^	ORV-4515	OR^-2-228
2"	60x3.0	FFCM34-CO-60x3.0-200-*^-^	2.63 (1.20)	FFC34-200-*	CO-60x3.0-200-*^-^	ORV-5715	OR^-2-228
2"	60x5.0	FFCM34-CO-60x5.0-200-*^-^	2.63 (1.20)	FFCM4-200-*	CO-60x5.0-200-*^-^	ORV-5615	OR^-2-228
2"	60x6.0	FFCM34-CO-60x6.0-200-*^-^	2.63 (1.20)	FFCM3-200-*	CO-60x6.0-200-*^-^	ORV-5615	OR^-2-228
2-1/2"	60x5.0	FFCM34-CO-60x5.0-250-*^-^	4.03 (1.83)	FFCM34-250-60MM-*	CO-60x5.0-250-*^-^	ORV-5615	OR^-2-232
2-1/2"	60x6.0	FFCM34-CO-60x6.0-250-*^-^	4.03 (1.83)	FFCM34-250-60MM-*	CO-60x6.0-250-*^-^	ORV-5615	OR^-2-232
2-1/2"	73x7.0	FFC34-CO-SCH80-250-*^-^	4.07 (1.85)	FFC34-250-*	CO-SCH80-250-*^-^	ORV-2-036	OR^-2-232
2-1/2"	75x3.0	FFCM34-CO-75x3.0-250-*^-^	4.07 (1.85)	FFCM34-250-75MM-*	CO-75x3.0-250-*^-^	ORV-6915	OR^-2-232
2-1/2"	75x5.0	FFCM34-CO-75x5.0-250-*^-^	4.07 (1.85)	FFCM34-250-75MM-*	CO-75x5.0-250-*^-^	ORV-2-036	OR^-2-232
2-1/2"	75x7.0	FFCM34-CO-75x7.0-250-*^-^	4.07 (1.85)	FFCM34-250-75MM-*	CO-75x7.0-250-*^-^	ORV-6715	OR^-2-232
3"	75x5.0	FFCM34-CO-75x5.0-300-*^-^	5.83 (2.65)	FFCM34-300-75MM-*	CO-75x5.0-300-*^-^	ORV-2-237	OR^-2-237
3"	90x3.5	FFCM34-CO-90x3.5-300-*^-^	5.92 (2.69)	FFCM34-300-90MM-*	CO-90x3.5-300-*^-^	ORV-8515	OR^-2-237
3"	90x5.0	FFCM34-CO-90x5.0-300-*^-^	5.92 (2.69)	FFCM34-300-90MM-*	CO-90x5.0-300-*^-^	ORV-2-040	OR^-2-237

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

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: FFCM34-CO-50x3.0-200-SS-V

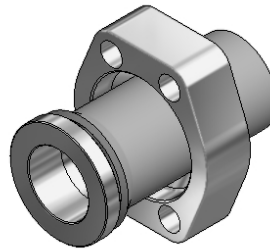
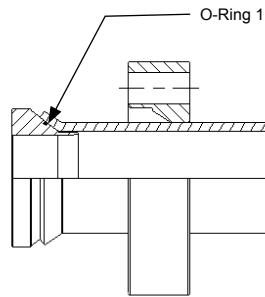
* Insert Material _____

^ Insert O-Ring 2 Type _____

3D step models available upon request

SAE 3000 PSI Flare Flange Set Flat Face with Clearance Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFC34-CF - Flare Flange Set Flat Face with Clearance Holes, NPS

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	Flange Part Number	Flat Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	1/2" SCH40	FFC34-CF-SCH40-050-*	0.67 (0.30)	FFC34-050-*	CF-SCH40-050-*	ORV-1915
1/2"	1/2" SCH80	FFC34-CF-SCH80-050-*	0.66 (0.30)	FFC34-050-*	CF-SCH80-050-*	ORV-1715
3/4"	3/4" SCH40	FFC34-CF-SCH40-075-*	0.73 (0.33)	FFC34-075-*	CF-SCH40-075-*	ORV-2515
3/4"	3/4" SCH80	FFC34-CF-SCH80-075-*	0.73 (0.33)	FFC34-075-*	CF-SCH80-075-*	ORV-2315
1"	1" SCH40	FFC34-CF-SCH40-100-*	0.87 (0.39)	FFC34-100-*	CF-SCH40-100-*	ORV-3015
1"	1" SCH80	FFC34-CF-SCH80-100-*	0.87 (0.39)	FFC34-100-*	CF-SCH80-100-*	ORV-2815
1-1/4"	1-1/4" SCH40	FFC34-CF-SCH40-125-*	1.12 (0.51)	FFC34-125-*	CF-SCH40-125-*	ORV-3815
1-1/4"	1-1/4" SCH80	FFC34-CF-SCH80-125-*	1.12 (0.51)	FFC34-125-*	CF-SCH80-125-*	ORV-3815
1-1/2"	1-1/2" SCH40	FFC34-CF-SCH40-150-*	1.94 (0.88)	FFC34-150-*	CF-SCH40-150-*	ORV-4315
1-1/2"	1-1/2" SCH80	FFC34-CF-SCH80-150-*	1.95 (0.88)	FFC34-150-*	CF-SCH80-150-*	ORV-4315
1-1/2"	1-1/2" SCH160	FFC34-CF-SCH160-150-*	1.94 (0.88)	FFC34-150-*	CF-SCH160-150-*	ORV-3815
2"	2" SCH40	FFC34-CF-SCH40-200-*	2.69 (1.22)	FFC34-200-*	CF-SCH40-200-*	ORV-5615
2"	2" SCH80	FFC34-CF-SCH80-200-*	2.70 (1.22)	FFC34-200-*	CF-SCH80-200-*	ORV-5515
2"	2" SCH160	FFC34-CF-SCH160-200-*	2.88 (1.31)	FFC34-200-*	CF-SCH160-200-*	ORV-5015
2-1/2"	2-1/2" SCH40	FFC34-CF-SCH40-250-*	4.09 (1.86)	FFC34-250-*	CF-SCH40-250-*	ORV-2-036
2-1/2"	2-1/2" SCH80	FFC34-CF-SCH80-250-*	4.14 (1.88)	FFC34-250-*	CF-SCH80-250-*	ORV-2-036
2-1/2"	2-1/2" SCH160	FFC34-CF-SCH160-250-*	4.58 (2.08)	FFC34-250-*	CF-SCH160-250-*	ORV-5615
3"	3" SCH40	FFC34-CF-SCH40-300-*	5.99 (2.72)	FFC34-300-*	CF-SCH40-300-*	ORV-2-041
3"	3" SCH80	FFC34-CF-SCH80-300-*	5.88 (2.67)	FFC34-300-*	CF-SCH80-300-*	ORV-2-041

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

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: FFC34-CF-SCH80-200-SS

* Insert Material _____

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

ISO 6164, 400 bar F10° Flare

Clamp Supports - Heavy Series

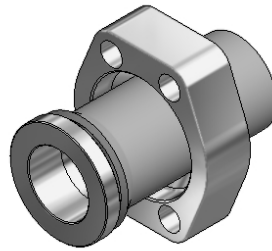
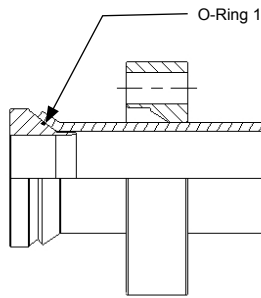
Valves, Ball and Check

G11

SAE 3000 PSI Flare Flange Set

Flat Face with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFCM34-CF - Flare Flange Set - Flat Face with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	Flange Part Number	Flat Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	20x2.0	FFCM34-CF-20x2.0-050-*	0.67 (0.30)	FFCM34-050-20MM-*	CF-20x2.0-050-*	ORV-1715
1/2"	20x3.0	FFCM34-CF-20x3.0-050-*	0.67 (0.30)	FFCM34-050-20MM-*	CF-20x3.0-050-*	ORV-1715
1/2"	25x2.5	FFCM34-CF-25x2.5-050-*	0.67 (0.30)	FFCM34-050-25MM-*	CF-25x2.5-050-*	ORV-2315
1/2"	25x3.0	FFCM34-CF-25x3.0-050-*	0.67 (0.30)	FFCM34-050-25MM-*	CF-25x3.0-050-*	ORV-2315
3/4"	20x2.0	FFCM34-CF-20x2.0-075-*	0.70 (0.32)	FFCM34-075-20MM-*	CF-20x2.0-075-*	ORV-1715
3/4"	20x2.5	FFCM34-CF-20x2.5-075-*	0.70 (0.32)	FFCM34-075-20MM-*	CF-20x2.5-075-*	ORV-1715
3/4"	20x3.0	FFCM34-CF-20x3.0-075-*	0.70 (0.32)	FFCM34-075-20MM-*	CF-20x3.0-075-*	ORV-1715
3/4"	25x2.5	FFCM34-CF-25x2.5-075-*	0.70 (0.32)	FFCM34-075-25MM-*	CF-25x2.5-075-*	ORV-2315
3/4"	25x3.0	FFCM34-CF-25x3.0-075-*	0.70 (0.32)	FFCM34-075-25MM-*	CF-25x3.0-075-*	ORV-2315
3/4"	25x4.0	FFCM34-CF-25x4.0-075-*	0.70 (0.32)	FFCM34-075-25MM-*	CF-25x4.0-075-*	ORV-2315
3/4"	30x3.0	FFCM34-CF-30x3.0-075-*	0.73 (0.33)	FFCM34-075-30MM-*	CF-30x3.0-075-*	ORV-2515
1"	25x2.5	FFCM34-CF-25x2.5-100-*	0.83 (0.37)	FFCM34-100-25MM-*	CF-25x2.5-100-*	ORV-2315
1"	25x3.0	FFCM34-CF-25x3.0-100-*	0.83 (0.37)	FFCM34-100-25MM-*	CF-25x3.0-100-*	ORV-2315
1"	25x4.0	FFCM34-CF-25x4.0-100-*	0.83 (0.37)	FFCM34-100-25MM-*	CF-25x4.0-100-*	ORV-2315
1"	30x3.0	FFCM34-CF-30x3.0-100-*	0.85 (0.38)	FFCM34-100-30MM-*	CF-30x3.0-100-*	ORV-2815
1"	30x4.0	FFCM34-CF-30x4.0-100-*	0.85 (0.38)	FFCM34-100-30MM-*	CF-30x4.0-100-*	ORV-2815
1"	30x5.0	FFCM34-CF-30x5.0-100-*	0.85 (0.38)	FFCM34-100-30MM-*	CF-30x5.0-100-*	ORV-2815
1"	38x3.0	FFCM34-CF-38x3.0-100-*	0.86 (0.38)	FFCM34-100-38MM-*	CF-38x3.0-100-*	ORV-4515
1"	38x4.0	FFCM34-CF-38x4.0-100-*	0.87 (0.39)	FFCM34-100-38MM-*	CF-38x4.0-100-*	ORV-3515
1"	38x6.0	FFCM34-CF-38x6.0-100-*	0.87 (0.39)	FFCM34-100-38MM-*	CF-38x6.0-100-*	ORV-3215
1-1/4"	30x3.0	FFCM34-CF-30x3.0-125-*	1.08 (0.49)	FFCM34-125-30MM-*	CF-30x3.0-125-*	ORV-2815
1-1/4"	30x4.0	FFCM34-CF-30x4.0-125-*	1.08 (0.49)	FFCM34-125-30MM-*	CF-30x4.0-125-*	ORV-2815
1-1/4"	30x5.0	FFCM34-CF-30x5.0-125-*	1.08 (0.49)	FFCM34-125-30MM-*	CF-30x5.0-125-*	ORV-2815
1-1/4"	38x4.0	FFCM34-CF-38x4.0-125-*	1.10 (0.50)	FFCM34-125-38MM-*	CF-38x4.0-125-*	ORV-3515
1-1/4"	38x5.0	FFCM34-CF-38x5.0-125-*	1.10 (0.50)	FFCM34-125-38MM-*	CF-38x5.0-125-*	ORV-3215
1-1/4"	38x6.0	FFCM34-CF-38x6.0-125-*	1.10 (0.50)	FFCM34-125-38MM-*	CF-38x6.0-125-*	ORV-3215
1-1/4"	42x3.0	FFCM34-CF-42x3.0-125-*	1.15 (0.53)	FFC34-125-*	CF-42x3.0-125-*	ORV-3815
1-1/4"	42x4.0	FFCM34-CF-42x4.0-125-*	1.15 (0.53)	FFC34-125-*	CF-42x4.0-125-*	ORV-3815

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

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

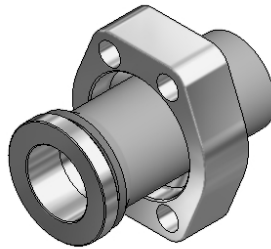
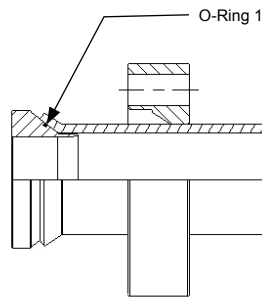
HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

Ordering Example: FFCM34-CF-50x3.0-200-SS

* Insert Material

SAE 3000 PSI Flare Flange Set Flat Face with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFCM34-CF - Flare Flange Set - Flat Face with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	Flange Part Number	Flat Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1-1/2"	30x3.0	FFCM34-CF-30x3.0-150-*	1.87 (0.85)	FFCM34-150-30MM-*	CF-30x3.0-150-*	ORV-2815
1-1/2"	38x4.0	FFCM34-CF-38x4.0-150-*	1.91 (0.87)	FFCM34-150-38MM-*	CF-38x4.0-150-*	ORV-3215
1-1/2"	38x6.0	FFCM34-CF-38x6.0-150-*	1.91 (0.87)	FFCM34-150-38MM-*	CF-38x6.0-150-*	ORV-3215
1-1/2"	42x3.0	FFCM34-CF-42x3.0-150-*	1.91 (0.87)	FFCM34-150-42MM-*	CF-42x3.0-150-*	ORV-3815
1-1/2"	42x4.0	FFCM34-CF-42x4.0-150-*	1.91 (0.87)	FFCM34-150-42MM-*	CF-42x4.0-150-*	ORV-3815
1-1/2"	50x3.0	FFCM34-CF-50x3.0-150-*	1.93 (0.88)	FFCM34-150-50MM-*	CF-50x3.0-150-*	ORV-4715
1-1/2"	50x5.0	FFCM34-CF-50x5.0-150-*	1.93 (0.88)	FFCM34-150-50MM-*	CF-50x5.0-150-*	ORV-4515
2"	50x3.0	FFCM34-CF-50x3.0-200-*	2.63 (1.20)	FFCM34-200-50MM-*	CF-50x3.0-200-*	ORV-4515
2"	50x5.0	FFCM34-CF-50x5.0-200-*	2.63 (1.20)	FFCM34-200-50MM-*	CF-50x5.0-200-*	ORV-4515
2"	50x6.0	FFCM34-CF-50x6.0-200-*	2.63 (1.20)	FFCM34-200-50MM-*	CF-50x6.0-200-*	ORV-4515
2"	60x3.0	FFCM34-CF-60x3.0-200-*	2.65 (1.21)	FFC34-200-*	CF-60x3.0-200-*	ORV-5715
2"	60x5.0	FFCM34-CF-60x5.0-200-*	2.65 (1.21)	FFC34-200-*	CF-60x5.0-200-*	ORV-5615
2"	60x6.0	FFCM34-CF-60x6.0-200-*	2.65 (1.21)	FFC34-200-*	CF-60x6.0-200-*	ORV-5615
2-1/2"	60x5.0	FFCM34-CF-60x5.0-250-*	4.07 (1.85)	FFCM34-250-60MM-*	CF-60x5.0-250-*	ORV-5615
2-1/2"	60x6.0	FFCM34-CF-60x6.0-250-*	4.07 (1.85)	FFCM34-250-60MM-*	CF-60x6.0-250-*	ORV-5615
2-1/2"	73x7.0	FFC34-CF-SCH80-250-*^	4.11 (1.87)	FFC34-250-*	CF-SCH80-250-*^	ORV-2-036
2-1/2"	75x3.0	FFCM34-CF-75x3.0-250-*	4.11 (1.87)	FFCM34-250-75MM-*	CF-75x3.0-250-*	ORV-6915
2-1/2"	75x5.0	FFCM34-CF-75x5.0-250-*	4.11 (1.87)	FFCM34-250-75MM-*	CF-75x5.0-250-*	ORV-2-036
2-1/2"	75x7.0	FFCM34-CF-75x7.0-250-*	4.11 (1.87)	FFCM34-250-75MM-*	CF-75x7.0-250-*	ORV-6715
3"	75x5.0	FFCM34-CF-75x5.0-300-*	5.88 (2.67)	FFCM34-300-75MM-*	CF-75x5.0-300-*	ORV-2-237
3"	90x3.5	FFCM34-CF-90x3.5-300-*	5.97 (2.71)	FFCM34-300-90MM-*	CF-90x3.5-300-*	ORV-8515
3"	90x5.0	FFCM34-CF-90x5.0-300-*	5.97 (2.71)	FFCM34-300-90MM-*	CF-90x5.0-300-*	ORV-2-040

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

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.

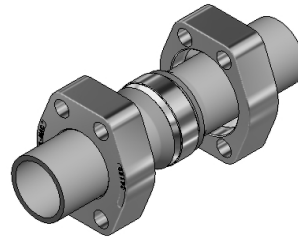
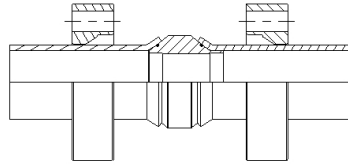
Ordering Example: FFCM34-CF-50x3.0-200-SS

* Insert Material

3D step models available upon request

SAE 3000 PSI Flare Flange Double Cone Union Set with Clearance Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFC34-CD - Flare Flange Double Cone Union Set with Clearance Holes, NPS

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	Flange Part Number	Flat Face Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	1/2" SCH40	FFC34-CD-SCH40-050-*	1.32 (0.59)	FFC34-050-*	CD-SCH40-050-*	ORV-1915
1/2"	1/2" SCH80	FFC34-CD-SCH80-050-*	1.30 (0.58)	FFC34-050-*	CD-SCH80-050-*	ORV-1715
3/4"	3/4" SCH40	FFC34-CD-SCH40-075-*	1.37 (0.61)	FFC34-075-*	CD-SCH40-075-*	ORV-2515
3/4"	3/4" SCH80	FFC34-CD-SCH80-075-*	1.37 (0.61)	FFC34-075-*	CD-SCH80-075-*	ORV-2315
1"	1" SCH40	FFC34-CD-SCH40-100-*	1.53 (0.69)	FFC34-100-*	CD-SCH40-100-*	ORV-3015
1"	1" SCH80	FFC34-CD-SCH80-100-*	1.54 (0.69)	FFC34-100-*	CD-SCH80-100-*	ORV-2815
1-1/4"	1-1/4" SCH40	FFC34-CD-SCH40-125-*	1.61 (0.72)	FFC34-125-*	CD-SCH40-125-*	ORV-3815
1-1/4"	1-1/4" SCH80	FFC34-CD-SCH80-125-*	1.66 (0.76)	FFC34-125-*	CD-SCH80-125-*	ORV-3815
1-1/2"	1-1/2" SCH40	FFC34-CD-SCH40-150-*	2.00 (0.91)	FFC34-150-*	CD-SCH40-150-*	ORV-4315
1-1/2"	1-1/2" SCH80	FFC34-CD-SCH80-150-*	2.02 (0.92)	FFC34-150-*	CD-SCH80-150-*	ORV-4315
1-1/2"	1-1/2" SCH160	FFC34-CD-SCH160-150-*	2.01 (0.91)	FFC34-150-*	CD-SCH160-150-*	ORV-3815
2"	2" SCH40	FFC34-CD-SCH40-200-*	2.12 (0.97)	FFC34-200-*	CD-SCH40-200-*	ORV-5615
2"	2" SCH80	FFC34-CD-SCH80-200-*	2.15 (0.98)	FFC34-200-*	CD-SCH80-200-*	ORV-5515
2"	2" SCH160	FFC34-CD-SCH160-200-*	2.49 (1.13)	FFC34-200-*	CD-SCH160-200-*	ORV-5015
2-1/2"	2-1/2" SCH40	FFC34-CD-SCH40-250-*	3.18 (1.44)	FFC34-250-*	CD-SCH40-250-*	ORV-2-036
2-1/2"	2-1/2" SCH80	FFC34-CD-SCH80-250-*	3.23 (1.46)	FFC34-250-*	CD-SCH80-250-*	ORV-2-036
2-1/2"	2-1/2" SCH160	FFC34-CD-SCH160-250-*	4.05 (1.84)	FFC34-250-*	CD-SCH160-250-*	ORV-5615
3"	3" SCH40	FFC34-CD-SCH40-300-*	3.86 (1.75)	FFC34-300-*	CD-SCH40-300-*	ORV-2-041
3"	3" SCH80	FFC34-CD-SCH80-300-*	3.65 (1.65)	FFC34-300-*	CD-SCH80-300-*	ORV-2-041

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

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

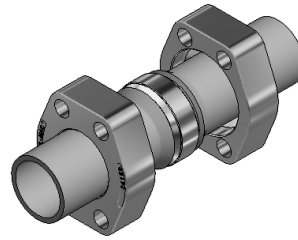
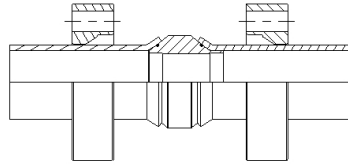
HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

Ordering Example: FFCM34-CD-50x3.0-200-SS

* Insert Material

SAE 3000 PSI Flare Flange Double Cone Union Set with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFCM34-CD - Flare Flange Double Cone Union Set with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	Flange Part Number	Double Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1/2"	20x2.0	FFCM34-CD-20x2.0-050-*	1.33 (0.60)	FFCM34-050-20MM-*	CD-20x2.0-050-*	ORV-1715
1/2"	20x3.0	FFCM34-CD-20x3.0-050-*	1.33 (0.60)	FFCM34-050-20MM-*	CD-20x3.0-050-*	ORV-1715
1/2"	25x2.5	FFCM34-CD-25x2.5-050-*	1.33 (0.60)	FFCM34-050-25MM-*	CD-25x2.5-050-*	ORV-2315
1/2"	25x3.0	FFCM34-CD-25x3.0-050-*	1.33 (0.60)	FFCM34-050-25MM-*	CD-25x3.0-050-*	ORV-2315
3/4"	20x2.0	FFCM34-CD-20x2.0-075-*	1.39 (0.64)	FFCM34-075-20MM-*	CD-20x2.0-075-*	ORV-1715
3/4"	20x2.5	FFCM34-CD-20x2.5-075-*	1.39 (0.64)	FFCM34-075-20MM-*	CD-20x2.5-075-*	ORV-1715
3/4"	20x3.0	FFCM34-CD-20x3.0-075-*	1.39 (0.64)	FFCM34-075-20MM-*	CD-20x3.0-075-*	ORV-1715
3/4"	25x2.5	FFCM34-CD-25x2.5-075-*	1.39 (0.64)	FFCM34-075-25MM-*	CD-25x2.5-075-*	ORV-2315
3/4"	25x3.0	FFCM34-CD-25x3.0-075-*	1.39 (0.64)	FFCM34-075-25MM-*	CD-25x3.0-075-*	ORV-2315
3/4"	25x4.0	FFCM34-CD-25x4.0-075-*	1.39 (0.64)	FFCM34-075-25MM-*	CD-25x4.0-075-*	ORV-2315
3/4"	30x3.0	FFCM34-CD-30x3.0-075-*	1.43 (0.65)	FFCM34-075-30MM-*	CD-30x3.0-075-*	ORV-2515
1"	25x2.5	FFCM34-CD-25x2.5-100-*	1.63 (0.74)	FFCM34-100-25MM-*	CD-25x2.5-100-*	ORV-2315
1"	25x3.0	FFCM34-CD-25x3.0-100-*	1.63 (0.74)	FFCM34-100-25MM-*	CD-25x3.0-100-*	ORV-2315
1"	25x4.0	FFCM34-CD-25x4.0-100-*	1.63 (0.74)	FFCM34-100-25MM-*	CD-25x4.0-100-*	ORV-2315
1"	30x3.0	FFCM34-CD-30x3.0-100-*	1.67 (0.76)	FFCM34-100-30MM-*	CD-30x3.0-100-*	ORV-2815
1"	30x4.0	FFCM34-CD-30x4.0-100-*	1.67 (0.76)	FFCM34-100-30MM-*	CD-30x4.0-100-*	ORV-2815
1"	30x5.0	FFCM34-CD-30x5.0-100-*	1.67 (0.76)	FFCM34-100-30MM-*	CD-30x5.0-100-*	ORV-2815
1"	38x3.0	FFCM34-CD-38x3.0-100-*	1.69 (0.77)	FFCM34-100-30MM-*	CD-38x3.0-100-*	ORV-4515
1"	38x4.0	FFCM34-CD-38x4.0-100-*	1.71 (0.77)	FFCM34-100-38MM-*	CD-38x4.0-100-*	ORV-3515
1"	38x5.0	FFCM34-CD-38x5.0-100-*	1.71 (0.77)	FFCM34-100-38MM-*	CD-38x5.0-100-*	ORV-3215
1-1/4"	30x3.0	FFCM34-CD-30x3.0-125-*	2.13 (0.97)	FFCM34-125-30MM-*	CD-30x3.0-125-*	ORV-2815
1-1/4"	30x4.0	FFCM34-CD-30x4.0-125-*	2.13 (0.97)	FFCM34-125-30MM-*	CD-30x4.0-125-*	ORV-2815
1-1/4"	30x5.0	FFCM34-CD-30x5.0-125-*	2.13 (0.97)	FFCM34-125-30MM-*	CD-30x5.0-125-*	ORV-2815
1-1/4"	38x4.0	FFCM34-CD-38x4.0-125-*	2.17 (0.99)	FFCM34-125-38MM-*	CD-38x4.0-125-*	ORV-3515
1-1/4"	38x5.0	FFCM34-CD-38x5.0-125-*	2.17 (0.99)	FFCM34-125-38MM-*	CD-38x5.0-125-*	ORV-3215
1-1/4"	38x5.0	FFCM34-CD-38x5.0-125-*	2.17 (0.99)	FFCM34-125-38MM-*	CD-38x5.0-125-*	ORV-3215
1-1/4"	42x3.0	FFCM34-CD-42x3.0-125-*	2.26 (1.03)	FFC34-125-*	CD-42x3.0-125-*	ORV-3815
1-1/4"	42x4.0	FFCM34-CD-42x4.0-125-*	2.26 (1.03)	FFC34-125-*	CD-42x4.0-125-*	ORV-3815

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

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.

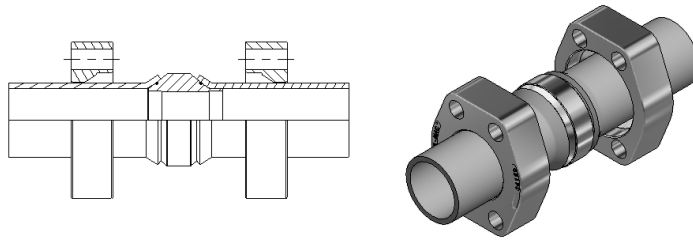
Ordering Example: FFCM34-CD-50x3.0-200-SS

* Insert Material _____

3D step models available upon request

SAE 3000 PSI Flare Flange Double Cone Union Set with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G1)

FFCM34-CD - Flare Flange Double Cone Union Set with Clearance Holes, Metric

Size	Pipe Size	Complete Flange Set Reference Number	WT/Set lbs (kg)	Flange Part Number	Double Cone Insert Part Number	O-Ring 1 (VITON) Part Number
1-1/2"	30x3.0	FFCM34-CD-30x3.0-150-*	3.70 (1.69)	FFCM34-150-30MM-*	CD-30x3.0-150-*	ORV-2815
1-1/2"	38x4.0	FFCM34-CD-38x4.0-150-*	3.76 (1.71)	FFCM34-150-38MM-*	CD-38x4.0-150-*	ORV-3215
1-1/2"	38x5.0	FFCM34-CD-38x5.0-150-*	3.76 (1.71)	FFCM34-150-38MM-*	CD-38x5.0-150-*	ORV-3215
1-1/2"	42x3.0	FFCM34-CD-42x3.0-150-*	3.76 (1.71)	FFCM34-150-42MM-*	CD-42x3.0-150-*	ORV-3815
1-1/2"	42x4.0	FFCM34-CD-42x4.0-150-*	3.76 (1.71)	FFCM34-150-42MM-*	CD-42x4.0-150-*	ORV-3815
1-1/2"	50x3.0	FFCM34-CD-50x3.0-150-*	3.79 (1.73)	FFCM34-150-50MM-*	CD-50x3.0-150-*	ORV-4715
1-1/2"	50x5.0	FFCM34-CD-50x5.0-150-*	3.79 (1.73)	FFCM34-150-50MM-*	CD-50x5.0-150-*	ORV-4515
2"	50x3.0	FFCM34-CD-50x3.0-200-*	5.19 (2.37)	FFCM34-200-50MM-*	CD-50x3.0-200-*	ORV-4515
2"	50x5.0	FFCM34-CD-50x5.0-200-*	5.19 (2.37)	FFCM34-200-50MM-*	CD-50x5.0-200-*	ORV-4515
2"	50x6.0	FFCM34-CD-50x6.0-200-*	5.19 (2.37)	FFCM34-200-50MM-*	CD-50x6.0-200-*	ORV-4515
2"	60x3.0	FFCM34-CD-60x3.0-200-*	5.23 (2.38)	FFC34-200-*	CD-60x3.0-200-*	ORV-5715
2"	60x5.0	FFCM34-CD-60x5.0-200-*	5.23 (2.38)	FFC34-200-*	CD-60x5.0-200-*	ORV-5615
2"	60x6.0	FFCM34-CD-60x6.0-200-*	5.23 (2.38)	FFC34-200-*	CD-60x6.0-200-*	ORV-5615
2-1/2"	60x5.0	FFCM34-CD-60x5.0-250-*	8.00 (3.63)	FFCM34-250-60MM-*	CD-60x5.0-250-*	ORV-5615
2-1/2"	60x6.0	FFCM34-CD-60x6.0-250-*	8.00 (3.63)	FFCM34-250-60MM-*	CD-60x6.0-250-*	ORV-5615
2-1/2"	73x7.0	FFC34-CD-SCH80-250-*^-^	8.08 (3.67)	FFC34-250-*	CD-SCH80-250-*^-^	ORV-2-036
2-1/2"	75x3.0	FFCM34-CD-75x3.0-250-*	8.08 (3.67)	FFCM34-250-75MM-*	CD-75x3.0-250-*	ORV-6915
2-1/2"	75x5.0	FFCM34-CD-75x5.0-250-*	8.08 (3.67)	FFCM34-250-75MM-*	CD-75x5.0-250-*	ORV-2-036
2-1/2"	75x7.0	FFCM34-CD-75x7.0-250-*	8.08 (3.67)	FFCM34-250-75MM-*	CD-75x7.0-250-*	ORV-6715
3"	75x5.0	FFCM34-CD-75x5.0-300-*	11.58 (5.26)	FFCM34-300-75MM-*	CD-75x5.0-300-*	ORV-2-237
3"	90x3.5	FFCM34-CD-90x3.5-300-*	11.76 (5.34)	FFCM34-300-90MM-*	CD-90x3.5-300-*	ORV-8515
3"	90x5.0	FFCM34-CD-90x5.0-300-*	11.76 (5.34)	FFCM34-300-90MM-*	CD-90x5.0-300-*	ORV-2-040

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

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

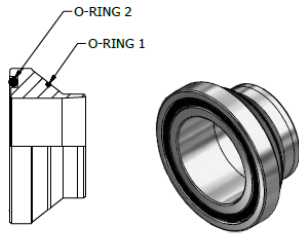
HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

Ordering Example: FFCM34-CD-50x3.0-200-SS

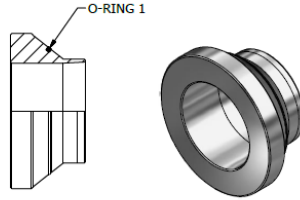
* Insert Material

SAE 3000 PSI Cone Inserts for Flare Flange Connections, NPS

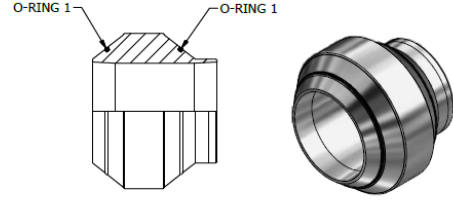
SAE J518 Code 61 (ISO 6162-1)



TYPE CO



TYPE CF



TYPE CD

CO, CF, CD - Cone Inserts for Flare Flange Connections, NPS

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type CO)	WT/Set lbs (kg)	Flat Face Cone Insert Part Number (Type CF)	WT/Set lbs (kg)	Double Cone Insert Part Number (Type CD)	WT/Set lbs (kg)	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
2-1/2"	2-1/2" SCH40	CO-SCH40-250-* [^]	0.99 (0.45)	CF-SCH40-250-*	1.01 (0.46)	CD-SCH40-250-*	1.90 (0.86)	ORV-2-036	OR [^] -2-232
2-1/2"	2-1/2" SCH80	CO-SCH80-250-* [^]	0.99 (0.45)	CF-SCH80-250-*	1.06 (0.48)	CD-SCH80-250-*	1.95 (0.88)	ORV-2-036	OR [^] -2-232
2-1/2"	2-1/2" SCH160	CO-SCH160-250-* [^]	1.42 (0.64)	CF-SCH160-250-*	1.50 (0.68)	CD-SCH160-250-*	2.77 (1.26)	ORV-5615	OR [^] -2-232
3"	3" SCH40	CO-SCH40-300-* [^]	1.33 (0.60)	CF-SCH40-300-*	1.39 (0.63)	CD-SCH40-300-*	2.58 (1.17)	ORV-2-040	OR [^] -2-237
3"	3" SCH80	CO-SCH80-300-* [^]	1.21 (0.55)	CF-SCH80-300-*	1.28 (0.58)	CD-SCH80-300-*	2.37 (1.07)	ORV-2-040	OR [^] -2-237

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

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

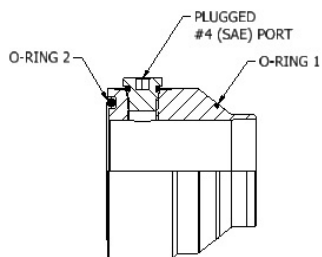
* Insert Material

^ Insert O-Ring 2 Type

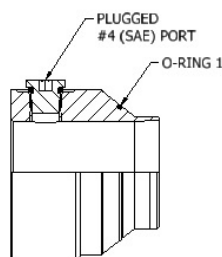
3D step models available upon request

SAE 3000 PSI Cone Inserts with Pilot Port for Flare Flange Connections, NPS

SAE J518 Code 61 (ISO 6162-1)



TYPE COP



TYPE CFP

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

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type COP)	WT/Set lbs (kg)	Flat Face Cone Insert Part Number (Type CFP)	WT/Set lbs (kg)	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
2-1/2"	2-1/2" SCH40	COP-SCH40-250-*^-^	2.51 (1.14)	CFP-SCH40-250-*	2.51 (1.14)	ORV-2-036	OR^-2-232
2-1/2"	2-1/2" SCH80	COP-SCH80-250-*^-^	2.51 (1.14)	CFP-SCH80-250-*	2.51 (1.14)	ORV-2-036	OR^-2-232
2-1/2"	2-1/2" SCH160	COP-SCH160-250-*^-^	2.43 (1.10)	CFP-SCH160-250-*	2.43 (1.10)	ORV-5615	OR^-2-232
3"	3" SCH40	COP-SCH40-300-*^-^	3.40 (1.54)	CFP-SCH40-300-*	3.40 (1.54)	ORV-2-041	OR^-2-237
3"	3" SCH80	COP-SCH80-300-*^-^	3.40 (1.54)	CFP-SCH80-300-*	3.40 (1.54)	ORV-2-041	OR^-2-237

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

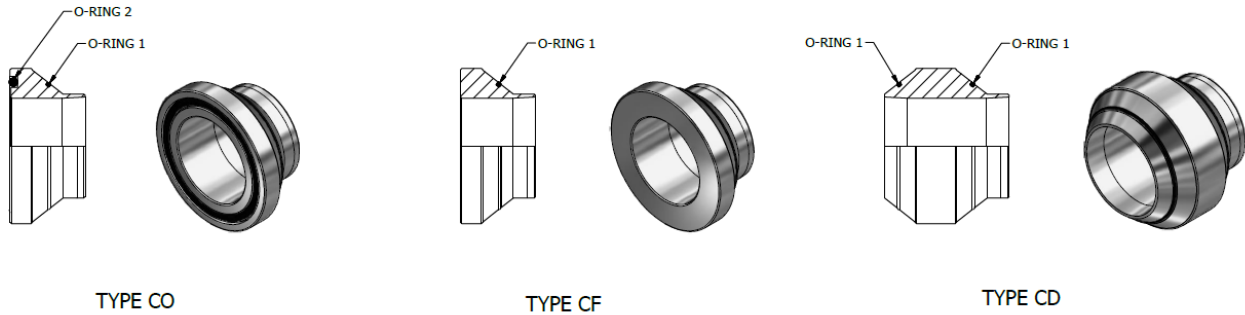
Ordering Example: COP-SCH80-200-SS-V

* Insert Material _____

^ Insert O-Ring 2 Type _____

SAE 3000 PSI Cone Inserts for Flare Flange Connections, Metric

SAE J518 Code 61 (ISO 6162-1)



CO, CF, CD - Cone Inserts for Flare Flange Connections, Metric									
Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type CO)	Weight lbs (kg)	Flat Face Cone Insert Part Number (Type CF)	Weight lbs (kg)	Double Cone Insert Part Number (Type CD)	Weight 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-*	0.20 (0.09)	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-*	0.20 (0.09)	ORV-1715	OR^-2-210
1/2"	25x2.5	CO-25x2.5-050-*^-^	0.09 (0.04)	CF-25x2.5-050-*	0.09 (0.04)	CD-25x2.5-050-*	0.17 (0.08)	ORV-2315	OR^-2-210
1/2"	25x3.0	CO-25x3.0-050-*^-^	0.09 (0.04)	CF-25x3.0-050-*	0.09 (0.04)	CD-25x3.0-050-*	0.17 (0.08)	ORV-2315	OR^-2-210
3/4"	20x2.0	CO-20x2.0-075-*^-^	0.14 (0.07)	CF-20x2.0-075-*	0.14 (0.07)	CD-20x2.0-075-*	0.26 (0.12)	ORV-1715	OR^-2-214
3/4"	20x2.5	CO-20x2.5-075-*^-^	0.14 (0.07)	CF-20x2.5-075-*	0.14 (0.07)	CD-20x2.5-075-*	0.26 (0.12)	ORV-1715	OR^-2-214
3/4"	20x3.0	CO-20x3.0-075-*^-^	0.14 (0.07)	CF-20x3.0-075-*	0.14 (0.07)	CD-20x3.0-075-*	0.26 (0.12)	ORV-1715	OR^-2-214
3/4"	25x2.5	CO-25x2.5-075-*^-^	0.15 (0.07)	CF-25x2.5-075-*	0.15 (0.07)	CD-25x2.5-075-*	0.29 (0.13)	ORV-2315	OR^-2-214
3/4"	25x3.0	CO-25x3.0-075-*^-^	0.15 (0.07)	CF-25x3.0-075-*	0.15 (0.07)	CD-25x3.0-075-*	0.29 (0.13)	ORV-2315	OR^-2-214
3/4"	25x4.0	CO-25x4.0-075-*^-^	0.15 (0.07)	CF-25x4.0-075-*	0.15 (0.07)	CD-25x4.0-075-*	0.29 (0.13)	ORV-2315	OR^-2-214
3/4"	30x3.0	CO-30x3.0-075-*^-^	0.15 (0.07)	CF-30x3.0-075-*	0.15 (0.07)	CD-30x3.0-075-*	0.29 (0.13)	ORV-2515	OR^-2-214
1"	25x2.5	CO-25x2.5-100-*^-^	0.14 (0.07)	CF-25x2.5-100-*	0.14 (0.07)	CD-25x2.5-100-*	0.26 (0.12)	ORV-2315	OR^-2-219
1"	25x3.0	CO-25x3.0-100-*^-^	0.14 (0.07)	CF-25x3.0-100-*	0.14 (0.07)	CD-25x3.0-100-*	0.26 (0.12)	ORV-2315	OR^-2-219
1"	25x4.0	CO-25x4.0-100-*^-^	0.14 (0.07)	CF-25x4.0-100-*	0.14 (0.07)	CD-25x4.0-100-*	0.26 (0.12)	ORV-2315	OR^-2-219
1"	30x3.0	CO-30x3.0-100-*^-^	0.14 (0.07)	CF-30x3.0-100-*	0.14 (0.07)	CD-30x3.0-100-*	0.26 (0.12)	ORV-2815	OR^-2-219
1"	30x4.0	CO-30x4.0-100-*^-^	0.27 (0.12)	CF-30x4.0-100-*	0.27 (0.07)	CD-30x4.0-100-*	0.52 (0.24)	ORV-2815	OR^-2-219
1"	30x5.0	CO-30x5.0-100-*^-^	0.27 (0.12)	CF-30x5.0-100-*	0.27 (0.12)	CD-30x5.0-100-*	0.52 (0.24)	ORV-2815	OR^-2-219
1"	38x4.0	CO-38x4.0-100-*^-^	0.21 (0.09)	CF-38x4.0-100-*	0.24 (0.11)	CD-38x4.0-100-*	0.43 (0.20)	ORV-3015	OR^-2-219
1"	38x5.0	CO-38x5.0-100-*^-^	0.21 (0.09)	CF-38x5.0-100-*	0.24 (0.11)	CD-38x5.0-100-*	0.43 (0.20)	ORV-3215	OR^-2-219
1-1/4"	30x3.0	CO-30x3.0-125-*^-^	0.24 (0.11)	CF-30x3.0-125-*	0.24 (0.11)	CD-30x3.0-125-*	0.46 (0.21)	ORV-2815	OR^-2-222
1-1/4"	30x4.0	CO-30x4.0-125-*^-^	0.24 (0.11)	CF-30x4.0-125-*	0.24 (0.11)	CD-30x4.0-125-*	0.46 (0.21)	ORV-2815	OR^-2-222
1-1/4"	30x5.0	CO-30x5.0-125-*^-^	0.24 (0.11)	CF-30x5.0-125-*	0.24 (0.11)	CD-30x5.0-125-*	0.46 (0.21)	ORV-2815	OR^-2-222
1-1/4"	38x4.0	CO-38x4.0-125-*^-^	0.32 (0.14)	CF-38x4.0-125-*	0.35 (0.16)	CD-38x4.0-125-*	0.64 (0.29)	ORV-3515	OR^-2-222
1-1/4"	38x5.0	CO-38x5.0-125-*^-^	0.27 (0.12)	CF-38x5.0-125-*	0.27 (0.12)	CD-38x5.0-125-*	0.52 (0.24)	ORV-3215	OR^-2-222
1-1/4"	42x3.0	CO-42x3.0-125-*^-^	0.27 (0.12)	CF-42x3.0-125-*	0.27 (0.12)	CD-42x3.0-125-*	0.52 (0.24)	ORV-3815	OR^-2-222
1-1/4"	42x4.0	CO-42x4.0-125-*^-^	0.27 (0.12)	CF-42x4.0-125-*	0.27 (0.12)	CD-42x4.0-125-*	0.52 (0.24)	ORV-3815	OR^-2-222

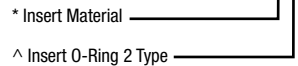
*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

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

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



3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

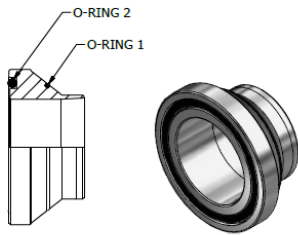
ISO 6164, 400 bar F10° Flare

Clamp Supports - Heavy Series

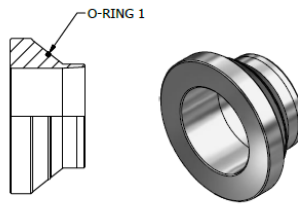
Valves, Ball and Check

SAE 3000 PSI Cone Inserts for Flare Flange Connections, Metric

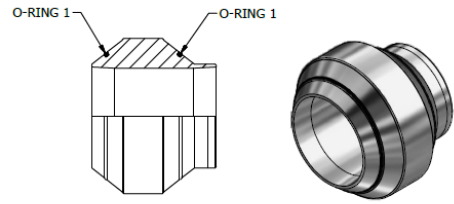
SAE J518 Code 61 (ISO 6162-1)



TYPE CO



TYPE CF



TYPE CD

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

Size	Pipe Size	O-Ring Face Cone Insert Part Number (Type CO)	Weight lbs (kg)	Flat Face Cone Insert Part Number (Type CF)	Weight lbs (kg)	Double Cone Insert Part Number (Type CD)	Weight lbs (kg)	O-Ring 1 (VITON) Part Number	O-Ring 2 (Buna) Part Number
1-1/2"	30x3.0	CO-30x3.0-150-*^	0.50 (0.23)	CF-30x3.0-150-*	0.50 (0.23)	CD-30x3.0-150-*	0.98 (0.45)	ORV-2815	OR^-2-225
1-1/2"	38x4.0	CO-38x4.0-150-*^	0.50 (0.23)	CF-38x4.0-150-*	0.50 (0.23)	CD-38x4.0-150-*	0.98 (0.45)	ORV-3215	OR^-2-225
1-1/2"	38x5.0	CO-38x5.0-150-*^	0.48 (0.22)	CF-38x5.0-150-*	0.49 (0.22)	CD-38x5.0-150-*	0.95 (0.43)	ORV-3215	OR^-2-225
1-1/2"	42x3.0	CO-42x3.0-150-*^	0.40 (0.18)	CF-42x3.0-150-*	0.40 (0.18)	CD-42x3.0-150-*	0.78 (0.35)	ORV-3815	OR^-2-225
1-1/2"	42x4.0	CO-42x4.0-150-*^	0.50 (0.23)	CF-42x4.0-150-*	0.50 (0.23)	CD-42x4.0-150-*	0.78 (0.35)	ORV-3815	OR^-2-225
1-1/2"	50x3.0	CO-50x3.0-150-*^	0.50 (0.23)	CF-50x3.0-150-*	0.50 (0.23)	CD-50x3.0-150-*	0.98 (0.45)	ORV-4715	OR^-2-225
1-1/2"	50x5.0	CO-50x5.0-150-*^	0.40 (0.18)	CF-50x5.0-150-*	0.40 (0.18)	CD-50x5.0-150-*	0.78 (0.35)	ORV-4515	OR^-2-225
1-1/2"	50x6.0	CO-50x6.0-150-*^	0.39 (0.18)	CF-50x6.0-150-*	0.39 (0.18)	CD-50x6.0-150-*	0.76 (0.35)	ORV-4515	OR^-2-225
2"	50x3.0	CO-50x3.0-200-*^	0.50 (0.23)	CF-50x3.0-200-*	0.50 (0.23)	CD-50x3.0-200-*	0.98 (0.45)	ORV-4515	OR^-2-228
2"	50x5.0	CO-50x5.0-200-*^	0.50 (0.23)	CF-50x5.0-200-*	0.50 (0.23)	CD-50x5.0-200-*	0.98 (0.45)	ORV-4515	OR^-2-228
2"	50x6.0	CO-50x6.0-200-*^	0.50 (0.23)	CF-50x6.0-200-*	0.50 (0.23)	CD-50x6.0-200-*	0.98 (0.45)	ORV-4515	OR^-2-228
2"	60x3.0	CO-60x3.0-200-*^	0.56 (0.25)	CF-60x3.0-200-*	0.56 (0.25)	CD-60x3.0-200-*	1.10 (0.50)	ORV-5715	OR^-2-228
2"	60x5.0	CO-60x5.0-200-*^	0.50 (0.23)	CF-60x5.0-200-*	0.50 (0.23)	CD-60x5.0-200-*	0.98 (0.45)	ORV-5615	OR^-2-228
2"	60x6.0	CO-60x6.0-200-*^	0.50 (0.23)	CF-60x6.0-200-*	0.50 (0.23)	CD-60x6.0-200-*	0.98 (0.45)	ORV-5015	OR^-2-228
2-1/2"	60x5.0	CO-60x5.0-250-*^	1.00 (0.45)	CF-60x5.0-250-*	1.10 (0.50)	CD-60x5.0-250-*	2.02 (0.92)	ORV-5615	OR^-2-232
2-1/2"	60x6.0	CO-60x6.0-250-*^	1.00 (0.45)	CF-60x6.0-250-*	1.10 (0.50)	CD-60x6.0-250-*	2.02 (0.98)	ORV-5015	OR^-2-232
2-1/2"	73x7.0	CO-SCH80-250-*^	1.00 (0.45)	CF-SCH80-250-*	1.08 (0.49)	CD-SCH80-250-*	2.00 (0.90)	ORV-2-036	OR^-2-232
2-1/2"	75x3.0	CO-75x3.0-250-*^	1.00 (0.45)	CF-75x3.0-250-*	1.00 (0.45)	CD-75x3.0-250-*	1.91 (0.87)	ORV-2-037	OR^-2-232
2-1/2"	75x5.0	CO-75x5.0-250-*^	0.97 (0.44)	CF-75x5.0-250-*	1.00 (0.45)	CD-75x5.0-250-*	1.90 (0.86)	ORV-2-036	OR^-2-232
2-1/2"	75x7.0	CO-75x7.0-250-*^	0.95 (0.43)	CF-75x7.0-250-*	0.98 (0.44)	CD-75x7.0-250-*	1.89 (0.86)	ORV-6715	OR^-2-232
3"	75x5.0	CO-75x5.0-300-*^	1.50 (0.68)	CF-75x5.0-300-*	1.50 (0.68)	CD-75x5.0-300-*	2.70 (1.23)	ORV-2-037	OR^-2-237
3"	90x3.5	CO-90x3.5-300-*^	1.50 (0.68)	CF-90x3.5-300-*	1.50 (0.68)	CD-90x3.5-300-*	2.70 (1.23)	ORV-2-041	OR^-2-237
3"	90x5.0	CO-90x5.0-300-*^	1.45 (0.66)	CF-90x5.0-300-*	1.48 (0.67)	CD-90x5.0-300-*	2.60 (1.18)	ORV-2-040	OR^-2-237

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

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

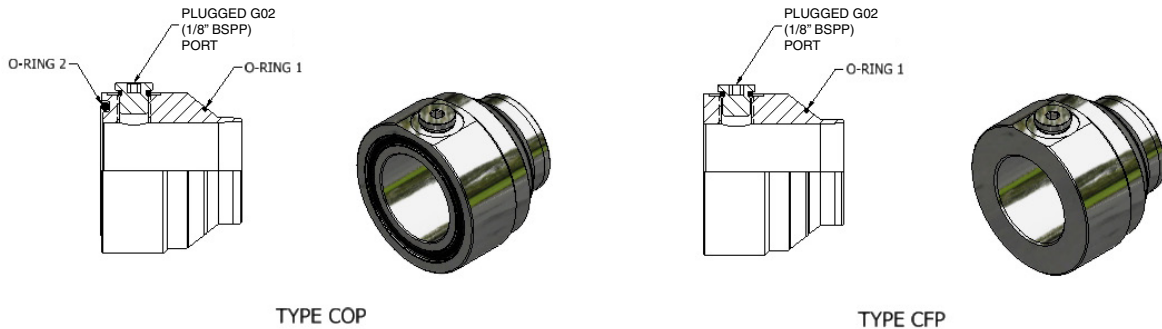
Ordering Example: CO-50x3.0-200-SS-V

* Insert Material _____

^ Insert O-Ring 2 Type _____

SAE 3000 PSI Cone Inserts with Pilot Port for Flare Flange Connections, Metric

SAE J518 Code 61 (ISO 6162-1)



COP, 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 (kg)	Flat Face Cone Insert Part Number (Type CFP)	WT lbs (kg)	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-2315	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-3015	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
1-1/4"	42x4.0	COP-42x4.0-125-*^	0.93 (0.42)	CFP-42x4.0-125-*	0.93 (0.42)	ORV-3815	OR^-2-222

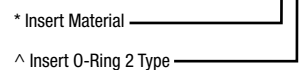
*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

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

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



3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

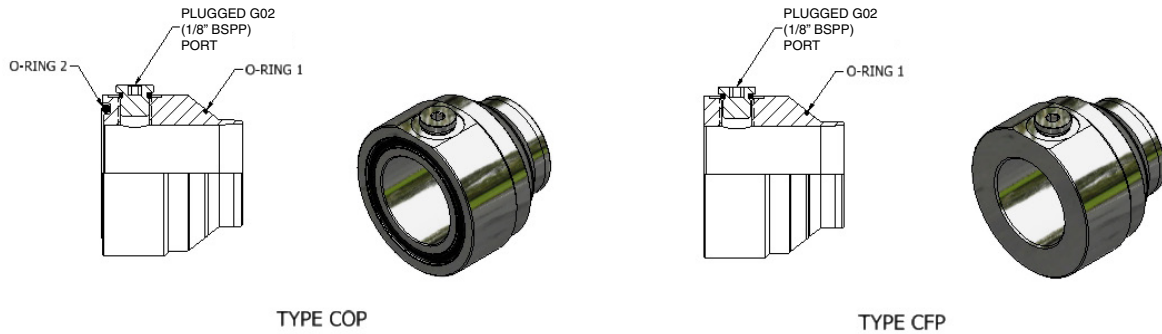
ISO 6164, 400 bar F10° Flare

Clamp Supports - Heavy Series

Valves, Ball and Check

SAE 3000 PSI Cone Inserts with Pilot Port for Flare Flange Connections, Metric

SAE J518 Code 61 (ISO 6162-1)



COP, 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 (kg)	Flat Face Cone Insert Part Number (Type CFP)	WT lbs (kg)	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"	38x5.0	COP-38x5.0-150*-^	1.10 (0.50)	CFP-38x5.0-150*	1.10 (0.50)	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
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-5015	OR^-2-228
2-1/2"	60x5.0	COP-60x5.0-250*-^	2.39 (1.08)	CFP-60x5.0-250*	2.39 (1.08)	ORV-5615	OR^-2-232
2-1/2"	60x6.0	COP-60x6.0-250*-^	2.39 (1.08)	CFP-60x6.0-250*	2.39 (1.08)	ORV-5015	OR^-2-232
2-1/2"	73x7.0	COP-SCH80-250*-^	2.51 (1.14)	CFP-SCH80-250*-^	2.51 (1.14)	ORV-2-036	OR^-2-232
2-1/2"	75x3.0	COP-75x3.0-250*-^	2.60 (1.18)	CFP-75x3.0-250*	2.60 (1.18)	ORV-2-037	OR^-2-232
2-1/2"	75x5.0	COP-75x5.0-250*-^	2.60 (1.18)	CFP-75x5.0-250*	2.60 (1.18)	ORV-2-036	OR^-2-232
2-1/2"	75x7.0	COP-75x7.0-250*-^	2.55 (1.16)	CFP-75x7.0-250*	2.55 (1.16)	ORV-6715	OR^-2-232
3"	75x5.0	COP-75x5.0-300*-^	3.18 (1.44)	CFP-75x5.0-300*	3.18 (1.44)	ORV-2-037	OR^-2-237
3"	90x3.5	COP-90x3.5-300*-^	3.46 (1.57)	CFP-90x3.5-300*	3.46 (1.57)	ORV-2-041	OR^-2-237
3"	90x5.0	COP-90x5.0-300*-^	3.40 (1.54)	CFP-90x5.0-300*	3.40 (1.54)	ORV-2-040	OR^-2-237

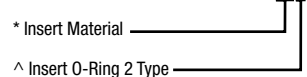
*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

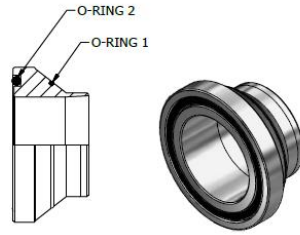
Standard, No Designation = Buna Nitrile.
V = Viton.

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



SAE 3000 PSI Cone Inserts Reducer for Flare Flange Connections with O-Ring Face, NPS

SAE J518 Code 61 (ISO 6162-1)



TYPE COR

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-*^-^	0.13 (0.06)	ORV-1915	OR^-2-214
3/4"	1/2" SCH80	COR-SCH80-075x050-*^-^	0.09 (0.04)	ORV-1715	OR^-2-214
1"	3/4" SCH40	COR-SCH40-100x075-*^-^	0.15 (0.07)	ORV-2515	OR^-2-219
1"	3/4" SCH80	COR-SCH80-100x075-*^-^	0.11 (0.05)	ORV-2315	OR^-2-219
1-1/4"	1" SCH40	COR-SCH40-125x100-*^-^	0.27 (0.12)	ORV-3015	OR^-2-222
1-1/4"	1" SCH80	COR-SCH80-125x100-*^-^	0.21 (0.10)	ORV-2815	OR^-2-222
1-1/2"	1-1/4" SCH40	COR-SCH40-150x125-*^-^	0.40 (0.18)	ORV-3815	OR^-2-225
1-1/2"	1-1/4" SCH80	COR-SCH80-150x125-*^-^	0.30 (0.15)	ORV-3815	OR^-2-225
2"	1-1/2" SCH40	COR-SCH40-200x150-*^-^	0.53 (0.24)	ORV-4315	OR^-2-228
2"	1-1/2" SCH80	COR-SCH80-200x150-*^-^	0.45 (0.20)	ORV-4315	OR^-2-228
2-1/2"	2" SCH40	COR-SCH40-250x200-*^-^	0.92 (0.42)	ORV-5615	OR^-2-232
2-1/2"	2" SCH80	COR-SCH80-250x200-*^-^	0.49 (0.22)	ORV-5515	OR^-2-232
3"	2-1/2" SCH40	COR-SCH40-300x250-*^-^	1.40 (0.65)	ORV-2-036	OR^-2-237
3"	2-1/2" SCH80	COR-SCH80-300x250-*^-^	1.29 (0.58)	ORV-2-036	OR^-2-237

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = All Stainless Steel, Type 316.

^ O-Ring 2 Type:

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

Ordering Example: COR-SCH80-100-SS-V

* Insert Material _____

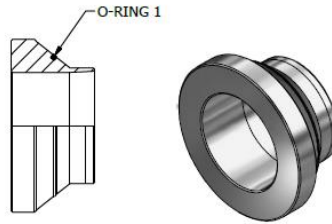
^ Insert O-Ring 2 Type _____

3D step models available upon request

- Introduction
- Technical Data
- Pipe Selection Guide
- 16 bar, 90° Flare
- ANSI 150#, 300# Flare
- SAE 1000, 70 bar
- SAE 3000, 210 bar
- SAE 6000, 420 bar
- SAE 10000, 690 bar
- ISO 6164, 400 bar
- ISO 6164, 400 bar F10° Flare
- Clamp Supports - Heavy Series
- Valves, Ball and Check

SAE 3000 PSI Cone Inserts Reducer for Flare Flange Connections with Flat Face, NPS

SAE J518 Code 61 (ISO 6162-1)



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-*^-^	0.13 (0.06)	ORV-1915
3/4"	1/2" SCH80	CFR-SCH80-075x050-*^-^	0.09 (0.04)	ORV-1715
1"	3/4" SCH40	CFR-SCH40-100x075-*^-^	0.15 (0.07)	ORV-2515
1"	3/4" SCH80	CFR-SCH80-100x075-*^-^	0.11 (0.05)	ORV-2315
1-1/4"	1" SCH40	CFR-SCH40-125x100-*^-^	0.27 (0.12)	ORV-3015
1-1/4"	1" SCH80	CFR-SCH80-125x100-*^-^	0.21 (0.10)	ORV-2815
1-1/2"	1-1/4" SCH40	CFR-SCH40-150x125-*^-^	0.40 (0.18)	ORV-3815
1-1/2"	1-1/4" SCH80	CFR-SCH80-150x125-*^-^	0.30 (0.15)	ORV-3815
2"	1-1/2" SCH40	CFR-SCH40-200x150-*^-^	0.53 (0.24)	ORV-4315
2"	1-1/2" SCH80	CFR-SCH80-200x150-*^-^	0.45 (0.20)	ORV-4315
2-1/2"	2" SCH40	CFR-SCH40-250x200-*^-^	0.92 (0.42)	ORV-5615
2-1/2"	2" SCH80	CFR-SCH80-250x200-*^-^	0.49 (0.22)	ORV-5515
3"	2-1/2" SCH40	CFR-SCH40-300x250-*^-^	1.40 (0.65)	ORV-2-036
3"	2-1/2" SCH80	CFR-SCH80-300x250-*^-^	1.29 (0.58)	ORV-2-036

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

^ O-Ring 2 Type:

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

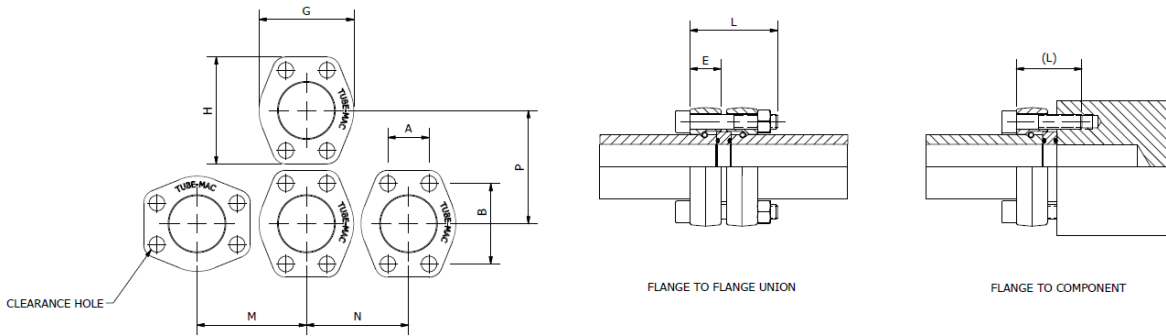
Ordering Example: CFR-SCH80-100-SS-V

* Insert Material _____

^ Insert O-Ring 2 Type _____

SAE 3000 PSI Retain Ring Flange Dimensions

SAE J518 Code 61 (ISO 6162-1)



Retain Ring Flange Dimensions, NPS

Size	Dimensions (in)								SHCS Bolt (in)* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1-1/2"	1.41	2.75	3.25	3.66	3.58	3.35	3.78	1.06	1/2"-13 UNC x 3.00 (2.00)	4000 (280)
2"	1.69	3.06	3.81	4.02	4.02	3.94	4.13	1.22	1/2"-13 UNC x 3.50 (2.00)	4000 (280)
2-1/2"	2.00	3.50	4.28	4.49	4.49	4.37	4.61	1.40	1/2"-13 UNC x 4.00 (2.50)	3000 (210)
3"	2.44	4.19	5.16	5.28	5.35	5.24	5.39	1.67	5/8"-11 UNC x 4.50 (2.75)	3000 (210)

* SHCS Bolt Specification

Carbon Steel: ASTM A574

316 Stainless Steel: ASTM A193 B8M Class 2

Retain Ring Flange Dimensions, Metric

Size	Dimensions (mm)								SHCS Bolt (mm)* L (L)	Working Pressure PSI (Bar)
	A	B	G	H	M	N	P	E		
1/2"	17.5	38.1	46.0	54.9	52.1	49.0	58.9	20.6	M8 x 60 (40)	5000 (350)
3/4"	22.4	47.8	52.3	65.0	61.0	55.1	68.1	20.8	M10 x 65 (40)	5000 (350)
1"	26.2	52.3	58.7	70.1	67.1	62.0	72.9	22.1	M10 x 65(40)	5000 (350)
1-1/4"	30.2	58.7	73.2	79.0	79.0	75.9	82.0	23.1	M10 x 65 (45)	4000 (280)
1-1/2"	35.8	69.9	82.6	93.0	90.9	85.1	96.0	26.9	M12 x 75 (50)	4000 (280)
2"	42.9	77.7	96.8	102.1	102.1	100.1	104.9	31.0	M12 x 90 (50)	4000 (280)
2-1/2"	50.8	88.9	108.7	114.0	114.0	111.0	117.1	35.6	M12 x 100 (65)	3000 (210)
3"	62.0	106.4	131.1	134.1	135.9	133.1	136.9	42.4	M16 x 120 (70)	3000 (210)

* SHCS Bolt Specification

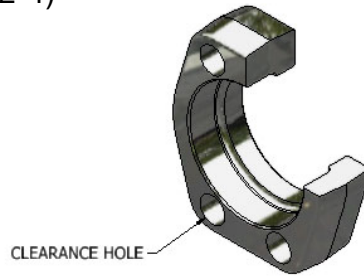
Carbon Steel: DIN912 / ISO4762 Grade 8.8

316 Stainless Steel: DIN912 / ISO4762 A480

3D step models available upon request

SAE 3000 PSI Retain Ring Flange with Clearance Holes

SAE J518 Code 61 (ISO 6162-1)



RFAC34 – Retain Ring Flange with Clearance Holes, for Grooved NPS Pipe Only

Size	Pipe O.D. (in)	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1-1/2"	1-1/2" SCHXXS	RFAC34-150-*	4000 (280)	1.41 (0.64)
2"	2" SCH160/XXS	RFAC34-200-*	4000 (280)	2.01 (0.91)
2-1/2"	2-1/2" SCH160/XXS	RFAC34-250-*	3000 (210)	3.28 (1.49)
3"	3" SCH160/XXS	RFAC34-300-*	3000 (210)	5.14 (2.33)

RFC34 – 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	RFC34-050-*	5000 (350)	0.40 (0.18)
3/4"	36X8.0	RFC34-075-*	5000 (350)	0.46 (0.21)
1"	39X7.5	RFC34-100-*	5000 (350)	0.58 (0.26)
1-1/4"	46X8.0	RFCM34-125-*	4000 (280)	0.79 (0.36)
1-1/2"	56X8.5	RFC34-150-*	4000 (280)	1.41 (0.64)
2"	66X8.5	RFC34-200-*	4000 (280)	2.01 (0.91)
2-1/2"	80X10	RFC34-250-*	3000 (210)	3.28 (1.49)
3"	97X12	RFC34-300-*	3000 (210)	5.14 (2.33)

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.

HDG = Carbon Steel, Hot Dip Galvanized.

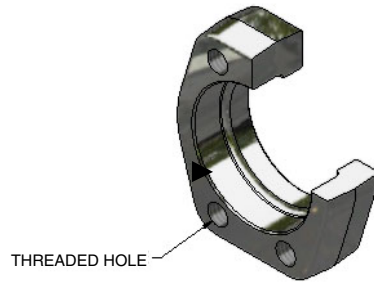
SS = Stainless Steel, Type 316.

Ordering Example: RFAC34-200-SS

* Insert Material

3000 PSI Retain Ring Flange with Threaded Holes

SAE J518 Code 61 (ISO 6162-1)



RFAT34 – Retain Ring Flange with UNC Threaded 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	RFAT34-150-*	4000 (280)	2.15 (0.98)
2"	2" SCH160/XXS	RFAT34-200-*	4000 (280)	2.65 (1.20)

RFT34 – Retain Ring Flange with UNC Threaded Holes, for Metric Pipe

Size	Pipe Size	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1/2"	26X6.0	RFT34-050-*	5000 (350)	0.44 (0.20)
3/4"	36X8.0	RFT34-075-*	5000 (350)	0.62 (0.28)
1"	39X7.5	RFT34-100-*	5000 (350)	0.75 (0.34)
1-1/4"	46X8.0	RFT34-125-*	4000 (280)	1.15 (0.52)
1-1/2"	56X8.5	RFT34-150-*	4000 (280)	2.15 (0.98)
2"	66X8.5	RFT34-200-*	4000 (280)	2.65 (1.20)
2-1/2"	80X10	RFT34-250-*	3000 (210)	3.75 (1.70)
3"	97X12	RFT34-300-*	3000 (210)	6.10 (2.77)

RFTM34 – Retain Ring Flange with Metric Threaded Holes, for Metric Pipe

Size	Pipe Size	Standard Part Number	Working Pressure PSI (Bar)	Weight lbs (kg)
1/2"	26X6.0	RFTM34-050-*	5000 (350)	0.44 (0.20)
3/4"	36X8.0	RFTM34-075-*	5000 (350)	0.62 (0.28)
1"	39X7.5	RFTM34-100-*	5000 (350)	0.75 (0.34)
1-1/4"	46X8.0	RFTM34-125-*	4000 (280)	1.15 (0.52)
1-1/2"	56X8.5	RFTM34-150-*	4000 (280)	2.15 (0.98)
2"	66X8.5	RFTM34-200-*	4000 (280)	2.65 (1.20)
2-1/2"	80X10	RFTM34-250-*	3000 (210)	3.75 (1.70)
3"	97X12	RFTM34-300-*	3000 (210)	6.10 (2.77)

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

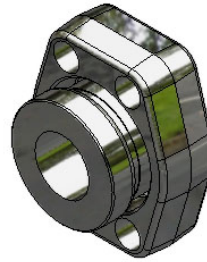
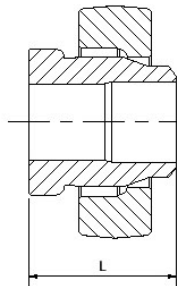
Ordering Example: RFT34-200-SS

* Insert Material _____

3D step models available upon request

SAE 3000 PSI Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



Complete Flange Set Includes:

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

To be Ordered Separately:

- Bolt Kit (See Page G25)
- O-Ring Spacer (See Page G80)

A/BWA - Butt Weld Adapter Assembly (Bump 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
1/2"	1/2" SCH80	A/BWA-SCH80-050-FC34-*	0.64 (0.29)	1.25	BWA-SCH80-050-*	RFC34-050-*
1/2"	1/2" SCH160	A/BWA-SCH160-050-FC34-*	0.65 (0.29)	1.25	BWA-SCH160-050-*	RFC34-050-*
1/2"	1/2" SCHXXS	A/BWA-SCHXXS-050-FC34-*	0.66 (0.30)	1.25	BWA-SCHXXS-050-*	RFC34-050-*
3/4"	3/4" SCH80	A/BWA-SCH80-075-FC34-*	0.92 (0.42)	1.75	BWA-SCH80-075-*	RFC34-075-*
3/4"	3/4" SCH160	A/BWA-SCH160-075-FC34-*	1.00 (0.45)	1.75	BWA-SCH160-075-*	RFC34-075-*
3/4"	3/4" SCHXXS	A/BWA-SCHXXS-075-FC34-*	1.03 (0.48)	1.75	BWA-SCHXXS-075-*	RFC34-075-*
1"	1" SCH80	A/BWA-SCH80-100-FC34-*	1.08 (0.49)	1.75	BWA-SCH80-100-*	RFC34-100-*
1"	1" SCH160	A/BWA-SCH160-100-FC34-*	1.19 (0.54)	1.75	BWA-SCH160-100-*	RFC34-100-*
1"	1" SCHXXS	A/BWA-SCHXXS-100-FC34-*	1.23 (0.56)	1.75	BWA-SCHXXS-100-*	RFC34-100-*
1-1/4"	1-1/4" SCH80	A/BWA-SCH80-125-FC34-*	1.62 (0.73)	2.00	BWA-SCH80-125-*	RFCM34-125-*
1-1/4"	1-1/4" SCH160	A/BWA-SCH160-125-FC34-*	1.65 (0.75)	2.00	BWA-SCH160-125-*	RFCM34-125-*
1-1/4"	1-1/4" SCHXXS	A/BWA-SCHXXS-125-FC34-*	1.76 (0.80)	2.00	BWA-SCHXXS-125-*	RFCM34-125-*
1-1/2"	1-1/2" SCH80	A/BWA-SCH80-150-FC34-*	2.06 (0.93)	2.25	BWA-SCH80-150-*	RFC34-150-*
1-1/2"	1-1/2" SCH160	A/BWA-SCH160-150-FC34-*	2.70 (1.22)	2.25	BWA-SCH160-150-*	RFC34-150-*
1-1/2"	1-1/2" SCHXXS	A/BWA-SCHXXS-150-FC34-*	2.72 (1.23)	2.25	BWA-SCHXXS-150-*	RFC34-150-*
2"	2" SCH80	A/BWA-SCH80-200-FC34-*	3.69 (1.67)	2.50	BWA-SCH80-200-*	RFC34-200-*
2"	2" SCH160	A/BWA-SCH160-200-FC34-*	3.86 (1.75)	2.50	BWA-SCH160-200-*	RFC34-200-*
2"	2" SCHXXS	A/BWA-SCHXXS-200-FC34-*	3.90 (1.77)	2.50	BWA-SCHXXS-200-*	RFC34-200-*
2-1/2"	2-1/2" SCH80	A/BWA-SCH80-250-FC34-*	5.12 (2.32)	2.63	BWA-SCH80-250-*	RFC34-250-*
2-1/2"	2-1/2" SCH160	A/BWA-SCH160-250-FC34-*	5.35 (2.43)	2.63	BWA-SCH160-250-*	RFC34-250-*
2-1/2"	2-1/2" SCHXXS	A/BWA-SCHXXS-250-FC34-*	5.70 (2.59)	2.63	BWA-SCHXXS-250-*	RFC34-250-*
3"	3" SCH80	A/BWA-SCH80-300-FC34-*	8.05 (3.50)	2.75	BWA-SCH80-300-*	RFC34-300-*
3"	3" SCH160	A/BWA-SCH160-300-FC34-*	7.89 (3.72)	2.75	BWA-SCH160-300-*	RFC34-300-*
3"	3" SCHXXS	A/BWA-SCHXXS-300-FC34-*	9.20 (3.95)	2.75	BWA-SCHXXS-300-*	RFC34-300-*

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: A/BWA-SCH80-200-FC34-SS

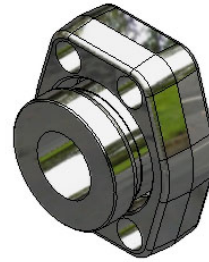
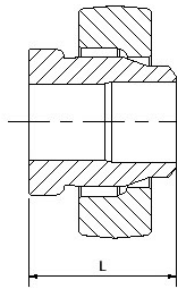
* Insert Material _____

Note:

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

SAE 3000 PSI Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



Complete Flange Set Includes:

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

To be Ordered Separately:

- Bolt Kit (See Page G25)
- O-Ring Spacer (See Page G80)

A/BWA - Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (in) L	Weld Adapter Body Part Number	Flange Part Number
1/2"	12.0X1.5	A/BWA-12.0X1.5-050-FC34-*	0.65 (0.29)	38.1	BWA-12.0X1.5-050-*	RFC34-050-*
1/2"	16.0X2.0	A/BWA-16.0X2.0-050-FC34-*	0.65 (0.29)	38.1	BWA-16.0X2.0-050-*	RFC34-050-*
1/2"	16.0X2.5	A/BWA-16.0X2.5-050-FC34-*	0.65 (0.29)	38.1	BWA-16.0X2.5-050-*	RFC34-050-*
1/2"	18.0X2.0	A/BWA-18.0X2.0-050-FC34-*	0.65 (0.29)	38.1	BWA-18.0X2.0-050-*	RFC34-050-*
1/2"	20.0X2.0	A/BWA-20.0X2.0-050-FC34-*	0.67 (0.30)	38.1	BWA-20.0X2.0-050-*	RFC34-050-*
1/2"	20.0X2.5	A/BWA-20.0X2.5-050-FC34-*	0.67 (0.30)	38.1	BWA-20.0X2.5-050-*	RFC34-050-*
1/2"	20.0X3.0	A/BWA-20.0X3.0-050-FC34-*	0.67 (0.30)	38.1	BWA-20.0X3.0-050-*	RFC34-050-*
1/2"	21.3X2.8	A/BWA-SCH40-050-FC34-*	0.63 (0.29)	31.8	BWA-SCH40-050-*	RFC34-050-*
1/2"	21.3X3.7	A/BWA-SCH80-050-FC34-*	0.64 (0.29)	31.8	BWA-SCH80-050-*	RFC34-050-*
1/2"	21.3X4.8	A/BWA-SCH160-050-FC34-*	0.65 (0.29)	31.8	BWA-SCH160-050-*	RFC34-050-*
1/2"	21.3X7.5	A/BWA-SCHXXS-050-FC34-*	0.66 (0.30)	31.8	BWA-SCHXXS-050-*	RFC34-050-*
1/2"	25.0X2.5	A/BWA-25.0X2.5-050-FC34-*	0.66 (0.30)	38.1	BWA-25.0X2.5-050-*	RFC34-050-*
1/2"	25.0X3.0	A/BWA-25.0X3.0-050-FC34-*	0.66 (0.30)	38.1	BWA-25.0X3.0-050-*	RFC34-050-*
1/2"	26.0X6.0	A/BWA-26.0X6.0-050-FC34-*	0.71 (0.32)	38.1	BWA-26.0X6.0-050-*	RFC34-050-*
3/4"	20.0X2.0	A/BWA-20.0X2.0-075-FC34-*	0.95 (0.43)	44.5	BWA-20.0X2.0-075-*	RFC34-075-*
3/4"	20.0X2.5	A/BWA-20.0X2.5-075-FC34-*	0.97 (0.44)	44.5	BWA-20.0X2.5-075-*	RFC34-075-*
3/4"	20.0X3.0	A/BWA-20.0X3.0-075-FC34-*	0.97 (0.44)	44.5	BWA-20.0X3.0-075-*	RFC34-075-*
3/4"	25.0X2.5	A/BWA-25.0X2.5-075-FC34-*	0.94 (0.43)	44.5	BWA-25.0X2.5-075-*	RFC34-075-*
3/4"	25.0X3.0	A/BWA-25.0X3.0-075-FC34-*	0.95 (0.43)	44.5	BWA-25.0X3.0-075-*	RFC34-075-*
3/4"	25.0X4.0	A/BWA-25.0X4.0-075-FC34-*	0.97 (0.44)	44.5	BWA-25.0X4.0-075-*	RFC34-075-*
3/4"	26.7X2.9	A/BWA-SCH40-075-FC34-*	0.90 (0.41)	44.5	BWA-SCH40-075-*	RFC34-075-*
3/4"	26.7X3.9	A/BWA-SCH80-075-FC34-*	0.92 (0.42)	44.5	BWA-SCH80-075-*	RFC34-075-*
3/4"	26.7X5.5	A/BWA-SCH160-075-FC34-*	1.00 (0.45)	44.5	BWA-SCH160-075-*	RFC34-075-*
3/4"	26.7X7.8	A/BWA-SCHXXS-075-FC34-*	1.03 (0.47)	44.5	BWA-SCHXXS-075-*	RFC34-075-*
3/4"	30.0X3.0	A/BWA-30.0X3.0-075-FC34-*	0.85 (0.39)	44.5	BWA-30.0X3.0-075-*	RFC34-075-*
3/4"	30.0X4.0	A/BWA-30.0X4.0-075-FC34-*	0.88 (0.40)	44.5	BWA-30.0X4.0-075-*	RFC34-075-*
3/4"	36.0X8.0	A/BWA-36.0X8.0-075-FC34-*	1.03 (0.47)	44.5	BWA-36.0X8.0-075-*	RFC34-075-*

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

Ordering Example: A/BWA-50.0X3.0-200-FC34-SS

* Insert Material _____

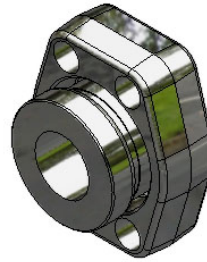
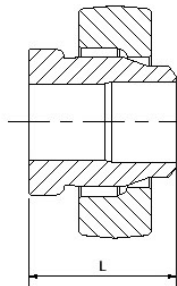
Note:

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

3D step models available upon request

SAE 3000 PSI Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



Complete Flange Set Includes:

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

To be Ordered Separately:

- Bolt Kit (See Page G25)
- O-Ring Spacer (See Page G80)

A/BWA - Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (in) L	Weld Adapter Body Part Number	Flange Part Number
1"	25.0X2.5	A/BWA-25.0X2.5-100-FC34-*	1.06 (0.48)	44.5	BWA-25.0X2.5-100-*	RFC34-100-*
1"	25.0X3.0	A/BWA-25.0X3.0-100-FC34-*	1.06 (0.48)	44.5	BWA-25.0X3.0-100-*	RFC34-100-*
1"	25.0X4.0	A/BWA-25.0X4.0-100-FC34-*	1.09 (0.49)	44.5	BWA-25.0X4.0-100-*	RFC34-100-*
1"	30.0X3.0	A/BWA-30.0X3.0-100-FC34-*	1.10 (0.50)	44.5	BWA-30.0X3.0-100-*	RFC34-100-*
1"	30.0X4.0	A/BWA-30.0X4.0-100-FC34-*	1.08 (0.49)	44.5	BWA-30.0X4.0-100-*	RFC34-100-*
1"	30.0X5.0	A/BWA-30.0X5.0-100-FC34-*	1.15 (0.52)	44.5	BWA-30.0X5.0-100-*	RFC34-100-*
1"	33.4X3.4	A/BWA-SCH40-100-FC34-*	1.08 (0.49)	44.5	BWA-SCH40-100-*	RFC34-100-*
1"	33.4X4.6	A/BWA-SCH80-100-FC34-*	1.08 (0.49)	44.5	BWA-SCH80-100-*	RFC34-100-*
1"	33.4X6.4	A/BWA-SCH160-100-FC34-*	1.19 (0.54)	44.5	BWA-SCH160-100-*	RFC34-100-*
1"	33.4X9.1	A/BWA-SCHXXS-100-FC34-*	1.23 (0.56)	44.5	BWA-SCHXXS-100-*	RFC34-100-*
1"	38.0X4.0	A/BWA-38.0X4.0-100-FC34-*	1.08 (0.49)	44.5	BWA-38.0X4.0-100-*	RFC34-100-*
1"	38.0X5.0	A/BWA-38.0X5.0-100-FC34-*	1.08 (0.49)	44.5	BWA-38.0X5.0-100-*	RFC34-100-*
1"	38.0X6.0	A/BWA-38.0X6.0-100-FC34-*	1.17 (0.53)	44.5	BWA-38.0X6.0-100-*	RFC34-100-*
1"	39.0X7.5	A/BWA-39.0X7.5-100-FC34-*	1.20 (0.54)	44.5	BWA-39.0X7.5-100-*	RFC34-100-*
1-1/4"	30.0X3.0	A/BWA-30.0X3.0-125-FCM34-*	1.60 (0.73)	50.8	BWA-30.0X3.0-125-*	RFCM34-125-*
1-1/4"	30.0X4.0	A/BWA-30.0X4.0-125-FCM34-*	1.63 (0.74)	50.8	BWA-30.0X4.0-125-*	RFCM34-125-*
1-1/4"	30.0X5.0	A/BWA-30.0X5.0-125-FCM34-*	1.65 (0.75)	50.8	BWA-30.0X5.0-125-*	RFCM34-125-*
1-1/4"	38.0X4.0	A/BWA-38.0X4.0-125-FCM34-*	1.59 (0.72)	50.8	BWA-38.0X4.0-125-*	RFCM34-125-*
1-1/4"	38.0X5.0	A/BWA-38.0X5.0-125-FCM34-*	1.62 (0.73)	50.8	BWA-38.0X5.0-125-*	RFCM34-125-*
1-1/4"	38.0X6.0	A/BWA-38.0X6.0-125-FCM34-*	1.65 (0.75)	50.8	BWA-38.0X6.0-125-*	RFCM34-125-*
1-1/4"	42.0X3.0	A/BWA-42.0X3.0-125-FCM34-*	1.60 (0.72)	50.8	BWA-42.0X3.0-125-*	RFCM34-125-*
1-1/4"	42.0X4.0	A/BWA-42.0X4.0-125-FCM34-*	1.61 (0.73)	50.8	BWA-42.0X4.0-125-*	RFCM34-125-*
1-1/4"	42.2X3.6	A/BWA-SCH40-125-FCM34-*	1.61 (0.73)	50.8	BWA-SCH40-125-*	RFCM34-125-*
1-1/4"	42.2X4.9	A/BWA-SCH80-125-FCM34-*	1.61 (0.73)	50.8	BWA-SCH80-125-*	RFCM34-125-*
1-1/4"	42.2X6.4	A/BWA-SCH160-125-FCM34-*	1.61 (0.73)	50.8	BWA-SCH160-125-*	RFCM34-125-*
1-1/4"	42.2X9.7	A/BWA-SCHXXS-125-FCM34-*	1.76 (0.80)	50.8	BWA-SCHXXS-125-*	RFCM34-125-*
1-1/4"	46.0X8.5	A/BWA-46.0X8.5-125-FCM34-*	1.76 (0.80)	50.8	BWA-46.0X8.5-125-*	RFCM34-125-*

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: A/BWA-50.0X3.0-200-FC34-SS

* Insert Material _____

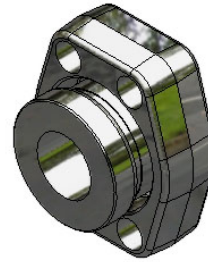
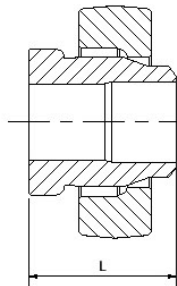
Note:

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

3D step models available upon request

SAE 3000 PSI Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



Complete Flange Set Includes:

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

To be Ordered Separately:

- Bolt Kit (See Page G25)
- O-Ring Spacer (See Page G80)

A/BWA - Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (in) L	Weld Adapter Body Part Number	Flange Part Number
1-1/2"	30.0X3.0	A/BWA-30.0X3.0-150-FC34-*	2.45 (1.11)	57.2	BWA-30.0X3.0-150-*	RFC34-150-*
1-1/2"	38.0X4.0	A/BWA-38.0X4.0-150-FC34-*	2.40 (1.09)	57.2	BWA-38.0X4.0-150-*	RFC34-150-*
1-1/2"	38.0X5.0	A/BWA-38.0X5.0-150-FC34-*	2.35 (1.07)	57.2	BWA-38.0X5.0-150-*	RFC34-150-*
1-1/2"	38.0X6.0	A/BWA-38.0X6.0-150-FC34-*	2.48 (1.12)	57.2	BWA-38.0X6.0-150-*	RFC34-150-*
1-1/2"	42.0X3.0	A/BWA-42.0X3.0-150-FC34-*	2.30 (1.04)	57.2	BWA-42.0X3.0-150-*	RFC34-150-*
1-1/2"	42.0X4.0	A/BWA-42.0X4.0-150-FC34-*	2.35 (1.07)	57.2	BWA-42.0X4.0-150-*	RFC34-150-*
1-1/2"	48.3X3.7	A/BWA-SCH40-150-FC34-*	2.45 (1.11)	57.2	BWA-SCH40-150-*	RFC34-150-*
1-1/2"	48.3X5.1	A/BWA-SCH80-150-FC34-*	2.38 (1.08)	57.2	BWA-SCH80-150-*	RFC34-150-*
1-1/2"	48.3X7.1	A/BWA-SCH160-150-FC34-*	2.70 (1.22)	57.2	BWA-SCH160-150-*	RFC34-150-*
1-1/2"	48.3X10.2	A/BWA-SCHXXS-150-FC34-*	2.64 (1.20)	57.2	BWA-SCHXXS-150-*	RFC34-150-*
1-1/2"	50.0X3.0	A/BWA-50.0X3.0-150-FC34-*	2.32 (1.05)	57.2	BWA-50.0X3.0-150-*	RFC34-150-*
1-1/2"	50.0X5.0	A/BWA-50.0X5.0-150-FC34-*	2.25 (1.20)	57.2	BWA-50.0X5.0-150-*	RFC34-150-*
1-1/2"	56.0X8.5	A/BWA-56.0X8.5-150-FC34-*	2.68 (1.22)	57.2	BWA-56.0X8.5-150-*	RFC34-150-*
2"	50.0X3.0	A/BWA-50.0X3.0-200-FC34-*	3.54 (1.61)	63.5	BWA-50.0X3.0-200-*	RFC34-200-*
2"	50.0X5.0	A/BWA-50.0X5.0-200-FC34-*	3.67 (1.66)	63.5	BWA-50.0X5.0-200-*	RFC34-200-*
2"	50.0X6.0	A/BWA-50.0X6.0-200-FC34-*	3.74 (1.70)	63.5	BWA-50.0X6.0-200-*	RFC34-200-*
2"	60.0X3.0	A/BWA-60.0X3.0-200-FC34-*	3.43 (1.56)	63.5	BWA-60.0X3.0-200-*	RFC34-200-*
2"	60.0X5.0	A/BWA-60.0X5.0-200-FC34-*	3.16 (1.43)	63.5	BWA-60.0X5.0-200-*	RFC34-200-*
2"	60.0X6.0	A/BWA-60.0X6.0-200-FC34-*	3.61 (1.64)	63.5	BWA-60.0X6.0-200-*	RFC34-200-*
2"	60.0X8.0	A/BWA-60.0X8.0-200-FC34-*	3.80 (1.72)	63.5	BWA-60.0X8.0-200-*	RFC34-200-*
2"	60.3X3.9	A/BWA-SCH40-200-FC34-*	3.59 (1.63)	63.5	BWA-SCH40-200-*	RFC34-200-*
2"	60.3X5.5	A/BWA-SCH80-200-FC34-*	3.69 (1.67)	63.5	BWA-SCH80-200-*	RFC34-200-*
2"	60.3X8.7	A/BWA-SCH160-200-FC34-*	3.86 (1.75)	63.5	BWA-SCH160-200-*	RFC34-200-*
2"	60.3X11.1	A/BWA-SCHXXS-200-FC34-*	3.90 (1.77)	63.5	BWA-SCHXXS-200-*	RFC34-200-*
2"	66.0X8.5	A/BWA-66.0X8.5-200-FC34-*	3.75 (1.70)	63.5	BWA-66.0X8.5-200-*	RFC34-200-*

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

Ordering Example: A/BWA-50.0X3.0-200-FC34-SS

* Insert Material _____

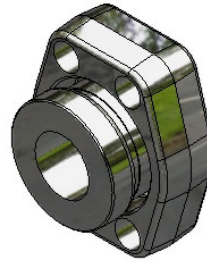
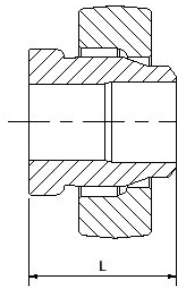
Note:

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

3D step models available upon request

SAE 3000 PSI Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



Complete Flange Set Includes:

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

To be Ordered Separately:

- Bolt Kit (See Page G25)
- O-Ring Spacer (See Page G80)

A/BWA - Butt Weld Adapter Assembly (Bump Style) with Clearance Holes, Metric

Size	Pipe Size OD x Wall	Complete Flange Set Part Number	WT/Set lbs (kg)	Dimension (in) L	Weld Adapter Body Part Number	Flange Part Number
2-1/2"	60.0X5.0	A/BWA-60.0X5.0-250-FC34-*	4.87 (2.21)	66.7	BWA-60.0X5.0-250-*	RFC34-250-*
2-1/2"	60.0X6.0	A/BWA-60.0X6.0-250-FC34-*	4.95 (2.25)	66.7	BWA-60.0X6.0-250-*	RFC34-250-*
2-1/2"	65.0X8.0	A/BWA-65.0X8.0-250-FC34-*	5.02 (2.28)	66.7	BWA-65.0X8.0-250-*	RFC34-250-*
2-1/2"	73.0X5.2	A/BWA-SCH40-250-FC34-*	4.61 (2.09)	66.7	BWA-SCH40-250-*	RFC34-250-*
2-1/2"	73.0X7.0	A/BWA-SCH80-250-FC34-*	4.91 (2.23)	66.7	BWA-SCH80-250-*	RFC34-250-*
2-1/2"	73.0X9.5	A/BWA-SCH160-250-FC34-*	5.13 (2.33)	66.7	BWA-SCH160-250-*	RFC34-250-*
2-1/2"	73.0X14.0	A/BWA-SCHXXS-250-FC34-*	5.49 (2.49)	66.7	BWA-SCHXXS-250-*	RFC34-250-*
2-1/2"	75.0X5.0	A/BWA-75.0X5.0-250-FC34-*	4.41 (2.00)	66.7	BWA-75.0X5.0-250-*	RFC34-250-*
2-1/2"	75.0X7.0	A/BWA-75.0X7.0-250-FC34-*	4.85 (2.20)	66.7	BWA-75.0X7.0-250-*	RFC34-250-*
2-1/2"	76.1X6.3	A/BWA-76.1X6.3-250-FC34-*	4.66 (2.11)	66.7	BWA-76.1X6.3-250-*	RFC34-250-*
2-1/2"	76.1X12.5	A/BWA-76.1X12.5-250-FC34-*	5.15 (2.36)	66.7	BWA-76.1X12.5-250-*	RFC34-250-*
2-1/2"	80.0X10.0	A/BWA-80.0X10.0-250-FC34-*	5.02 (2.28)	66.7	BWA-80.0X10.0-250-*	RFC34-250-*
3"	75.0X5.0	A/BWA-75.0X5.0-300-FC34-*	7.73 (3.50)	69.9	BWA-75.0X5.0-300-*	RFC34-300-*
3"	80.0X10.0	A/BWA-80.0X10.0-300-FC34-*	8.08 (3.67)	69.9	BWA-80.0X10.0-300-*	RFC34-300-*
3"	88.9X5.5	A/BWA-SCH40-300-FC34-*	7.63 (3.46)	69.9	BWA-SCH40-300-*	RFC34-300-*
3"	88.9X7.6	A/BWA-SCH80-300-FC34-*	8.05 (3.65)	69.9	BWA-SCH80-300-*	RFC34-300-*
3"	88.9X11.1	A/BWA-SCH160-300-FC34-*	7.89 (3.58)	69.9	BWA-SCH160-300-*	RFC34-300-*
3"	88.9X15.2	A/BWA-SCHXXS-300-FC34-*	9.24 (4.19)	69.9	BWA-SCHXXS-300-*	RFC34-300-*
3"	90.0X3.5	A/BWA-90X3.5-300-FC34-*	7.45 (3.38)	69.9	BWA-90X3.5-300-*	RFC34-300-*
3"	90.0X5.0	A/BWA-90X5.0-300-FC34-*	7.60 (3.45)	69.9	BWA-90X5.0-300-*	RFC34-300-*
3"	97.0X12.0	A/BWA-97.0X12.0-300-FC34-*	8.29 (3.76)	69.9	BWA-97.0X12.0-300-*	RFC34-300-*

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: A/BWA-50.0X3.0-200-FC34-SS

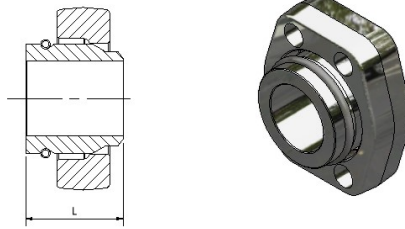
* Insert Material

Note:

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

SAE 3000 PSI Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, NPS

SAE J518 Code 61 (ISO 6162-1)



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 G25)
- O-Ring Spacer (See Page G80)

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-FC34-*	0.64 (0.29)	1.25	BWAR-SCH80-050-*	RFC34-050-*	R-050
1/2"	1/2" SCH160	A/BWAR-SCH160-050-FC34-*	0.65 (0.29)	1.25	BWAR-SCH160-050-*	RFC34-050-*	R-050
1/2"	1/2" SCHXXS	A/BWAR-SCHXXS-050-FC34-*	0.66 (0.30)	1.25	BWAR-SCHXXS-050-*	RFC34-050-*	R-050
3/4"	3/4" SCH80	A/BWAR-SCH80-075-FC34-*	0.92 (0.42)	1.75	BWAR-SCH80-075-*	RFC34-075-*	R-075
3/4"	3/4" SCH160	A/BWAR-SCH160-075-FC34-*	1.00 (0.45)	1.75	BWAR-SCH160-075-*	RFC34-075-*	R-075
3/4"	3/4" SCHXXS	A/BWAR-SCHXXS-075-FC34-*	1.03 (0.48)	1.75	BWAR-SCHXXS-075-*	RFC34-075-*	R-075
1"	1" SCH80	A/BWAR-SCH80-100-FC34-*	1.08 (0.49)	1.75	BWAR-SCH80-100-*	RFC34-100-*	R-100
1"	1" SCH160	A/BWAR-SCH160-100-FC34-*	1.19 (0.54)	1.75	BWAR-SCH160-100-*	RFC34-100-*	R-100
1"	1" SCHXXS	A/BWAR-SCHXXS-100-FC34-*	1.23 (0.56)	1.75	BWAR-SCHXXS-100-*	RFC34-100-*	R-100
1-1/4"	1-1/4" SCH80	A/BWAR-SCH80-125-FC34-*	1.62 (0.73)	2.00	BWAR-SCH80-125-*	RFCM34-125-*	R-125
1-1/4"	1-1/4" SCH160	A/BWAR-SCH160-125-FC34-*	1.65 (0.75)	2.00	BWAR-SCH160-125-*	RFCM34-125-*	R-125
1-1/4"	1-1/4" SCHXXS	A/BWAR-SCHXXS-125-FC34-*	1.76 (0.80)	2.00	BWAR-SCHXXS-125-*	RFCM34-125-*	R-125
1-1/2"	1-1/2" SCH80	A/BWAR-SCH80-150-FC34-*	2.06 (0.93)	2.25	BWAR-SCH80-150-*	RFC34-150-*	R-150
1-1/2"	1-1/2" SCH160	A/BWAR-SCH160-150-FC34-*	2.70 (1.22)	2.25	BWAR-SCH160-150-*	RFC34-150-*	R-150
1-1/2"	1-1/2" SCHXXS	A/BWAR-SCHXXS-150-FC34-*	2.72 (1.23)	2.25	BWAR-SCHXXS-150-*	RFC34-150-*	R-150
2"	2" SCH80	A/BWAR-SCH80-200-FC34-*	3.69 (1.67)	2.50	BWAR-SCH80-200-*	RFC34-200-*	R-200
2"	2" SCH160	A/BWAR-SCH160-200-FC34-*	3.86 (1.75)	2.50	BWAR-SCH160-200-*	RFC34-200-*	R-200
2"	2" SCHXXS	A/BWAR-SCHXXS-200-FC34-*	3.90 (1.77)	2.50	BWAR-SCHXXS-200-*	RFC34-200-*	R-200
2-1/2"	2-1/2" SCH80	A/BWAR-SCH80-250-FC34-*	5.12 (2.32)	2.63	BWAR-SCH80-250-*	RFC34-250-*	R-250
2-1/2"	2-1/2" SCH160	A/BWAR-SCH160-250-FC34-*	5.35 (2.43)	2.63	BWAR-SCH160-250-*	RFC34-250-*	R-250
2-1/2"	2-1/2" SCHXXS	A/BWAR-SCHXXS-250-FC34-*	5.70 (2.59)	2.63	BWAR-SCHXXS-250-*	RFC34-250-*	R-250
3"	3" SCH80	A/BWAR-SCH80-300-FC34-*	8.05 (3.50)	2.75	BWAR-SCH80-300-*	RFC34-300-*	R-300
3"	3" SCH160	A/BWAR-SCH160-300-FC34-*	7.89 (3.72)	2.75	BWAR-SCH160-300-*	RFC34-300-*	R-300
3"	3" SCHXXS	A/BWAR-SCHXXS-300-FC34-*	9.20 (3.95)	2.75	BWAR-SCHXXS-300-*	RFC34-300-*	R-300

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

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.

Note:

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

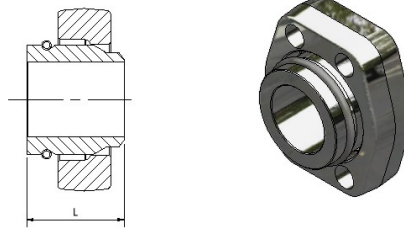
Ordering Example: A/BWAR-SCH80-200-FC34-SS

* Insert Material _____

3D step models available upon request

SAE 3000 PSI Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G25)
- O-Ring Spacer (See Page G80)

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"	12.0X1.5	A/BWAR-12.0X1.5-050-FC34-*	0.65 (0.29)	38.1	BWAR-12.0X1.5-050-*	RFC34-050-*	R-050
1/2"	16.0X2.0	A/BWAR-16.0X2.0-050-FC34-*	0.65 (0.29)	38.1	BWAR-16.0X2.0-050-*	RFC34-050-*	R-050
1/2"	16.0X2.5	A/BWAR-16.0X2.5-050-FC34-*	0.65 (0.29)	38.1	BWAR-16.0X2.5-050-*	RFC34-050-*	R-050
1/2"	18.0X2.0	A/BWAR-18.0X2.0-050-FC34-*	0.65 (0.29)	38.1	BWAR-18.0X2.0-050-*	RFC34-050-*	R-050
1/2"	20.0X2.0	A/BWAR-20.0X2.0-050-FC34-*	0.67 (0.30)	38.1	BWAR-20.0X2.0-050-*	RFC34-050-*	R-050
1/2"	20.0X2.5	A/BWAR-20.0X2.5-050-FC34-*	0.67 (0.30)	38.1	BWAR-20.0X2.5-050-*	RFC34-050-*	R-050
1/2"	20.0X3.0	A/BWAR-20.0X3.0-050-FC34-*	0.67 (0.30)	38.1	BWAR-20.0X3.0-050-*	RFC34-050-*	R-050
1/2"	21.3X2.8	A/BWAR-SCH40-050-FC34-*	0.63 (0.29)	31.8	BWAR-SCH40-050-*	RFC34-050-*	R-050
1/2"	21.3X3.7	A/BWAR-SCH80-050-FC34-*	0.64 (0.29)	31.8	BWAR-SCH80-050-*	RFC34-050-*	R-050
1/2"	21.3X4.8	A/BWAR-SCH160-050-FC34-*	0.65 (0.29)	31.8	BWAR-SCH160-050-*	RFC34-050-*	R-050
1/2"	21.3X7.5	A/BWAR-SCHXXS-050-FC34-*	0.66 (0.30)	31.8	BWAR-SCHXXS-050-*	RFC34-050-*	R-050
1/2"	25.0X2.5	A/BWAR-25.0X2.5-050-FC34-*	0.66 (0.30)	38.1	BWAR-25.0X2.5-050-*	RFC34-050-*	R-050
1/2"	25.0X3.0	A/BWAR-25.0X3.0-050-FC34-*	0.66 (0.30)	38.1	BWAR-25.0X3.0-050-*	RFC34-050-*	R-050
1/2"	26.0X6.0	A/BWAR-26.0X6.0-050-FC34-*	0.71 (0.32)	38.1	BWAR-26.0X6.0-050-*	RFC34-050-*	R-050
3/4"	20.0X2.0	A/BWAR-20.0X2.0-075-FC34-*	0.95 (0.43)	44.5	BWAR-20.0X2.0-075-*	RFC34-075-*	R-075
3/4"	20.0X2.5	A/BWAR-20.0X2.5-075-FC34-*	0.97 (0.44)	44.5	BWAR-20.0X2.5-075-*	RFC34-075-*	R-075
3/4"	20.0X3.0	A/BWAR-20.0X3.0-075-FC34-*	0.97 (0.44)	44.5	BWAR-20.0X3.0-075-*	RFC34-075-*	R-075
3/4"	25.0X2.5	A/BWAR-25.0X2.5-075-FC34-*	0.94 (0.43)	44.5	BWAR-25.0X2.5-075-*	RFC34-075-*	R-075
3/4"	25.0X3.0	A/BWAR-25.0X3.0-075-FC34-*	0.95 (0.43)	44.5	BWAR-25.0X3.0-075-*	RFC34-075-*	R-075
3/4"	25.0X4.0	A/BWAR-25.0X4.0-075-FC34-*	0.97 (0.44)	44.5	BWAR-25.0X4.0-075-*	RFC34-075-*	R-075
3/4"	26.7X2.9	A/BWAR-SCH40-075-FC34-*	0.90 (0.41)	44.5	BWAR-SCH40-075-*	RFC34-075-*	R-075
3/4"	26.7X3.9	A/BWAR-SCH80-075-FC34-*	0.92 (0.42)	44.5	BWAR-SCH80-075-*	RFC34-075-*	R-075
3/4"	26.7X5.5	A/BWAR-SCH160-075-FC34-*	1.00 (0.45)	44.5	BWAR-SCH160-075-*	RFC34-075-*	R-075
3/4"	26.7X7.8	A/BWAR-SCHXXS-075-FC34-*	1.03 (0.47)	44.5	BWAR-SCHXXS-075-*	RFC34-075-*	R-075
3/4"	30.0X3.0	A/BWAR-30.0X3.0-075-FC34-*	0.85 (0.39)	44.5	BWAR-30.0X3.0-075-*	RFC34-075-*	R-075
3/4"	30.0X4.0	A/BWAR-30.0X4.0-075-FC34-*	0.88 (0.40)	44.5	BWAR-30.0X4.0-075-*	RFC34-075-*	R-075
3/4"	36.0X8.0	A/BWAR-36.0X8.0-075-FC34-*	1.03 (0.47)	44.5	BWAR-36.0X8.0-075-*	RFC34-075-*	R-075

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: A/BWAR-50.0X3.0-200-FC34-SS

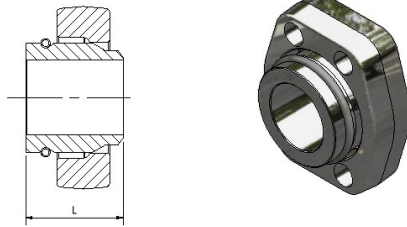
* Insert Material

Note:

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

SAE 3000 PSI Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G25)
- O-Ring Spacer (See Page G80)

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-FC34-*	1.06 (0.48)	44.5	BWAR-25.0X2.5-100-*	RFC34-100-*	R-100
1"	25.0X3.0	A/BWAR-25.0X3.0-100-FC34-*	1.06 (0.48)	44.5	BWAR-25.0X3.0-100-*	RFC34-100-*	R-100
1"	25.0X4.0	A/BWAR-25.0X4.0-100-FC34-*	1.09 (0.49)	44.5	BWAR-25.0X4.0-100-*	RFC34-100-*	R-100
1"	30.0X3.0	A/BWAR-30.0X3.0-100-FC34-*	1.10 (0.50)	44.5	BWAR-30.0X3.0-100-*	RFC34-100-*	R-100
1"	30.0X4.0	A/BWAR-30.0X4.0-100-FC34-*	1.08 (0.49)	44.5	BWAR-30.0X4.0-100-*	RFC34-100-*	R-100
1"	30.0X5.0	A/BWAR-30.0X5.0-100-FC34-*	1.15 (0.52)	44.5	BWAR-30.0X5.0-100-*	RFC34-100-*	R-100
1"	33.4X3.4	A/BWAR-SCH40-100-FC34-*	1.08 (0.49)	44.5	BWAR-SCH40-100-*	RFC34-100-*	R-100
1"	33.4X4.6	A/BWAR-SCH80-100-FC34-*	1.08 (0.49)	44.5	BWAR-SCH80-100-*	RFC34-100-*	R-100
1"	33.4X6.4	A/BWAR-SCH160-100-FC34-*	1.19 (0.54)	44.5	BWAR-SCH160-100-*	RFC34-100-*	R-100
1"	33.4X9.1	A/BWAR-SCHXXS-100-FC34-*	1.23 (0.56)	44.5	BWAR-SCHXXS-100-*	RFC34-100-*	R-100
1"	38.0X4.0	A/BWAR-38.0X4.0-100-FC34-*	1.08 (0.49)	44.5	BWAR-38.0X4.0-100-*	RFC34-100-*	R-100
1"	38.0X5.0	A/BWAR-38.0X5.0-100-FC34-*	1.08 (0.49)	44.5	BWAR-38.0X5.0-100-*	RFC34-100-*	R-100
1"	38.0X6.0	A/BWAR-38.0X6.0-100-FC34-*	1.17 (0.53)	44.5	BWAR-38.0X6.0-100-*	RFC34-100-*	R-100
1"	39.0X7.5	A/BWAR-39.0X7.5-100-FC34-*	1.20 (0.54)	44.5	BWAR-39.0X7.5-100-*	RFC34-100-*	R-100
1-1/4"	30.0X3.0	A/BWAR-30.0X3.0-125-FCM34-*	1.60 (0.73)	50.8	BWAR-30.0X3.0-125-*	RFCM34-125-*	R-125
1-1/4"	30.0X4.0	A/BWAR-30.0X4.0-125-FCM34-*	1.63 (0.74)	50.8	BWAR-30.0X4.0-125-*	RFCM34-125-*	R-125
1-1/4"	30.0X5.0	A/BWAR-30.0X5.0-125-FCM34-*	1.65 (0.75)	50.8	BWAR-30.0X5.0-125-*	RFCM34-125-*	R-125
1-1/4"	38.0X4.0	A/BWAR-38.0X4.0-125-FCM34-*	1.59 (0.72)	50.8	BWAR-38.0X4.0-125-*	RFCM34-125-*	R-125
1-1/4"	38.0X5.0	A/BWAR-38.0X5.0-125-FCM34-*	1.62 (0.73)	50.8	BWAR-38.0X5.0-125-*	RFCM34-125-*	R-125
1-1/4"	38.0X6.0	A/BWAR-38.0X6.0-125-FCM34-*	1.65 (0.75)	50.8	BWAR-38.0X6.0-125-*	RFCM34-125-*	R-125
1-1/4"	42.0X3.0	A/BWAR-42.0X3.0-125-FCM34-*	1.60 (0.72)	50.8	BWAR-42.0X3.0-125-*	RFCM34-125-*	R-125
1-1/4"	42.0X4.0	A/BWAR-42.0X4.0-125-FCM34-*	1.61 (0.73)	50.8	BWAR-42.0X4.0-125-*	RFCM34-125-*	R-125
1-1/4"	42.2X3.6	A/BWAR-SCH40-125-FCM34-*	1.61 (0.73)	50.8	BWAR-SCH40-125-*	RFCM34-125-*	R-125
1-1/4"	42.2X4.9	A/BWAR-SCH80-125-FCM34-*	1.61 (0.73)	50.8	BWAR-SCH80-125-*	RFCM34-125-*	R-125
1-1/4"	42.2X6.4	A/BWAR-SCH160-125-FCM34-*	1.61 (0.73)	50.8	BWAR-SCH160-125-*	RFCM34-125-*	R-125
1-1/4"	42.2X9.7	A/BWAR-SCHXXS-125-FCM34-*	1.76 (0.80)	50.8	BWAR-SCHXXS-125-*	RFCM34-125-*	R-125
1-1/4"	46.0X8.5	A/BWAR-46.0X8.5-125-FCM34-*	1.76 (0.80)	50.8	BWAR-46.0X8.5-125-*	RFCM34-125-*	R-125

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: A/BWAR-50.0X3.0-200-FC34-SS

* Insert Material _____

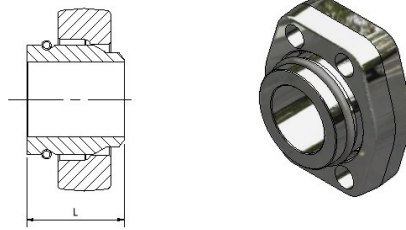
Note:

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

3D step models available upon request

SAE 3000 PSI Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G25)
- O-Ring Spacer (See Page G80)

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"	30.0X3.0	A/BWAR-30.0X3.0-150-FC34-*	2.45 (1.11)	57.2	BWAR-30.0X3.0-150-*	RFC34-150-*	R-150
1-1/2"	38.0X4.0	A/BWAR-38.0X4.0-150-FC34-*	2.40 (1.09)	57.2	BWAR-38.0X4.0-150-*	RFC34-150-*	R-150
1-1/2"	38.0X5.0	A/BWAR-38.0X5.0-150-FC34-*	2.35 (1.07)	57.2	BWAR-38.0X5.0-150-*	RFC34-150-*	R-150
1-1/2"	38.0X6.0	A/BWAR-38.0X6.0-150-FC34-*	2.48 (1.12)	57.2	BWAR-38.0X6.0-150-*	RFC34-150-*	R-150
1-1/2"	42.0X3.0	A/BWAR-42.0X3.0-150-FC34-*	2.30 (1.04)	57.2	BWAR-42.0X3.0-150-*	RFC34-150-*	R-150
1-1/2"	42.0X4.0	A/BWAR-42.0X4.0-150-FC34-*	2.35 (1.07)	57.2	BWAR-42.0X4.0-150-*	RFC34-150-*	R-150
1-1/2"	48.3X3.7	A/BWAR-SCH40-150-FC34-*	2.45 (1.11)	57.2	BWAR-SCH40-150-*	RFC34-150-*	R-150
1-1/2"	48.3X5.1	A/BWAR-SCH80-150-FC34-*	2.38 (1.08)	57.2	BWAR-SCH80-150-*	RFC34-150-*	R-150
1-1/2"	48.3X7.1	A/BWAR-SCH160-150-FC34-*	2.70 (1.22)	57.2	BWAR-SCH160-150-*	RFC34-150-*	R-150
1-1/2"	48.3X10.2	A/BWAR-SCHXXS-150-FC34-*	2.64 (1.20)	57.2	BWAR-SCHXXS-150-*	RFC34-150-*	R-150
1-1/2"	50.0X3.0	A/BWAR-50.0X3.0-150-FC34-*	2.32 (1.05)	57.2	BWAR-50.0X3.0-150-*	RFC34-150-*	R-150
1-1/2"	50.0X5.0	A/BWAR-50.0X5.0-150-FC34-*	2.25 (1.20)	57.2	BWAR-50.0X5.0-150-*	RFC34-150-*	R-150
1-1/2"	56.0X8.5	A/BWAR-56.0X8.5-150-FC34-*	2.68 (1.22)	57.2	BWAR-56.0X8.5-150-*	RFC34-150-*	R-150
2"	50.0X3.0	A/BWAR-50.0X3.0-200-FC34-*	3.54 (1.61)	63.5	BWAR-50.0X3.0-200-*	RFC34-200-*	R-200
2"	50.0X5.0	A/BWAR-50.0X5.0-200-FC34-*	3.67 (1.66)	63.5	BWAR-50.0X5.0-200-*	RFC34-200-*	R-200
2"	50.0X6.0	A/BWAR-50.0X6.0-200-FC34-*	3.74 (1.70)	63.5	BWAR-50.0X6.0-200-*	RFC34-200-*	R-200
2"	60.0X3.0	A/BWAR-60.0X3.0-200-FC34-*	3.43 (1.56)	63.5	BWAR-60.0X3.0-200-*	RFC34-200-*	R-200
2"	60.0X5.0	A/BWAR-60.0X5.0-200-FC34-*	3.16 (1.43)	63.5	BWAR-60.0X5.0-200-*	RFC34-200-*	R-200
2"	60.0X6.0	A/BWAR-60.0X6.0-200-FC34-*	3.61 (1.64)	63.5	BWAR-60.0X6.0-200-*	RFC34-200-*	R-200
2"	60.0X8.0	A/BWAR-60.0X8.0-200-FC34-*	3.80 (1.72)	63.5	BWAR-60.0X8.0-200-*	RFC34-200-*	R-200
2"	60.3X3.9	A/BWAR-SCH40-200-FC34-*	3.59 (1.63)	63.5	BWAR-SCH40-200-*	RFC34-200-*	R-200
2"	60.3X5.5	A/BWAR-SCH80-200-FC34-*	3.69 (1.67)	63.5	BWAR-SCH80-200-*	RFC34-200-*	R-200
2"	60.3X8.7	A/BWAR-SCH160-200-FC34-*	3.86 (1.75)	63.5	BWAR-SCH160-200-*	RFC34-200-*	R-200
2"	60.3X11.1	A/BWAR-SCHXXS-200-FC34-*	3.90 (1.77)	63.5	BWAR-SCHXXS-200-*	RFC34-200-*	R-200
2"	66.0X8.5	A/BWAR-66.0X8.5-200-FC34-*	3.75 (1.70)	63.5	BWAR-66.0X8.5-200-*	RFC34-200-*	R-200

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: A/BWAR-50.0X3.0-200-FC34-SS

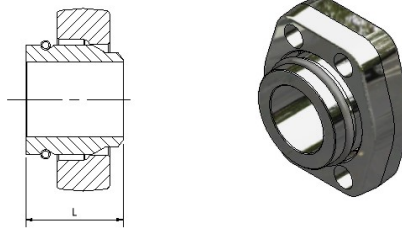
* Insert Material _____

Note:

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

SAE 3000 PSI Butt Weld Adapter Assembly Retain Ring Style with Clearance Holes, Metric

SAE J518 Code 61 (ISO 6162-1)



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 G25)
- O-Ring Spacer (See Page G80)

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
2-1/2"	60.0X5.0	A/BWAR-60.0X5.0-250-FC34-*	4.87 (2.21)	66.7	BWAR-60.0X5.0-250-*	RFC34-250-*	R-250
2-1/2"	60.0X6.0	A/BWAR-60.0X6.0-250-FC34-*	4.95 (2.25)	66.7	BWAR-60.0X6.0-250-*	RFC34-250-*	R-250
2-1/2"	65.0X8.0	A/BWAR-65.0X8.0-250-FC34-*	5.02 (2.28)	66.7	BWAR-65.0X8.0-250-*	RFC34-250-*	R-250
2-1/2"	73.0X5.2	A/BWAR-SCH40-250-FC34-*	4.61 (2.09)	66.7	BWAR-SCH40-250-*	RFC34-250-*	R-250
2-1/2"	73.0X7.0	A/BWAR-SCH80-250-FC34-*	4.91 (2.23)	66.7	BWAR-SCH80-250-*	RFC34-250-*	R-250
2-1/2"	73.0X9.5	A/BWAR-SCH160-250-FC34-*	5.13 (2.33)	66.7	BWAR-SCH160-250-*	RFC34-250-*	R-250
2-1/2"	73.0X14.0	A/BWAR-SCHXXS-250-FC34-*	5.49 (2.49)	66.7	BWAR-SCHXXS-250-*	RFC34-250-*	R-250
2-1/2"	75.0X5.0	A/BWAR-75.0X5.0-250-FC34-*	4.41 (2.00)	66.7	BWAR-75.0X5.0-250-*	RFC34-250-*	R-250
2-1/2"	75.0X7.0	A/BWAR-75.0X7.0-250-FC34-*	4.85 (2.20)	66.7	BWAR-75.0X7.0-250-*	RFC34-250-*	R-250
2-1/2"	76.1X6.3	A/BWAR-76.1X6.3-250-FC34-*	4.66 (2.11)	66.7	BWAR-76.1X6.3-250-*	RFC34-250-*	R-250
2-1/2"	76.1X12.5	A/BWAR-76.1X12.5-250-FC34-*	5.15 (2.36)	66.7	BWAR-76.1X12.5-250-*	RFC34-250-*	R-250
2-1/2"	80.0X10.0	A/BWAR-80.0X10.0-250-FC34-*	5.02 (2.28)	66.7	BWAR-80.0X10.0-250-*	RFC34-250-*	R-250
3"	75.0X5.0	A/BWAR-75.0X5.0-300-FC34-*	7.73 (3.50)	69.9	BWAR-75.0X5.0-300-*	RFC34-300-*	R-300
3"	80.0X10.0	A/BWAR-80.0X10.0-300-FC34-*	8.08 (3.67)	69.9	BWAR-80.0X10.0-300-*	RFC34-300-*	R-300
3"	88.9X5.5	A/BWAR-SCH40-300-FC34-*	7.63 (3.46)	69.9	BWAR-SCH40-300-*	RFC34-300-*	R-300
3"	88.9X7.6	A/BWAR-SCH80-300-FC34-*	8.05 (3.65)	69.9	BWAR-SCH80-300-*	RFC34-300-*	R-300
3"	88.9X11.1	A/BWAR-SCH160-300-FC34-*	7.89 (3.58)	69.9	BWAR-SCH160-300-*	RFC34-300-*	R-300
3"	88.9X15.2	A/BWAR-SCHXXS-300-FC34-*	9.24 (4.19)	69.9	BWAR-SCHXXS-300-*	RFC34-300-*	R-300
3"	90.0X3.5	A/BWAR-90X3.5-300-FC34-*	7.45 (3.38)	69.9	BWAR-90X3.5-300-*	RFC34-300-*	R-300
3"	90.0X5.0	A/BWAR-90X5.0-300-FC34-*	7.60 (3.45)	69.9	BWAR-90X5.0-300-*	RFC34-300-*	R-300
3"	97.0X12.0	A/BWAR-97.0X12.0-300-FC34-*	8.29 (3.76)	69.9	BWAR-97.0X12.0-300-*	RFC34-300-*	R-300

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: A/BWAR-50.0X3.0-200-FC34-SS

* Insert Material _____

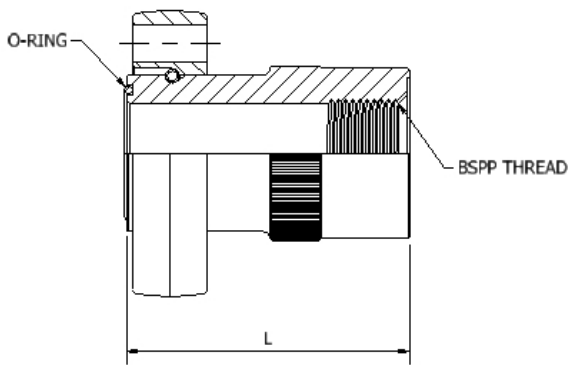
Note:

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

3D step models available upon request

SAE 3000 PSI BSPP Female Thread Adapter Complete Assembly

SAE J518 Code 61 (ISO 6162-1)



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 G25)

A/FBTA - BSPP Female Thread Adapter Complete Assembly

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-FC34-*^-^	1.38 (35.0)	1/4"	OR^-3-909	1.05 (0.48)	FBTA-050x025-*^-^	0.64 (0.29)	
1/2" x 1/2"	A/FBTA-050x050-FC34-*^-^	2.50 (63.5)	1/2"	OR^-3-909	1.51 (0.69)	FBTA-050x050-*^-^	1.10 (0.50)	
3/4" x 1/2"	A/FBTA-075x050-FC34-*^-^	1.57 (40.0)	1/2"	OR^-3-913	1.43 (0.65)	FBTA-075x050-*^-^	0.95 (0.43)	
3/4" x 3/4"	A/FBTA-075x075-FC34-*^-^	2.88 (73.0)	3/4"	OR^-3-913	2.13 (0.97)	FBTA-075x075-*^-^	1.65 (0.75)	
1" x 3/4"	A/FBTA-100x075-FC34-*^-^	1.57 (40.0)	3/4"	OR^-3-916	1.67 (0.76)	FBTA-100x075-*^-^	1.06 (0.48)	
1" x 1"	A/FBTA-100x100-FC34-*^-^	3.75 (95.3)	1"	OR^-3-916	2.41 (1.10)	FBTA-100x100-*^-^	1.80 (0.82)	
1-1/4" x 1"	A/FBTA-125x100-FC34-*^-^	1.65 (42.0)	1"	OR^-3-918	2.30 (1.05)	FBTA-125x100-*^-^	1.47 (0.67)	
1-1/4" x 1-1/4"	A/FBTA-125x125-FC34-*^-^	3.88 (98.6)	1-1/4"	OR^-3-918	3.33 (1.51)	FBTA-125x125-*^-^	2.50 (1.14)	
1-1/2" x 1-1/4"	A/FBTA-150x125-FC34-*^-^	1.77 (45.0)	1-1/4"	OR^-3-924	3.77 (1.71)	FBTA-150x125-*^-^	2.31 (1.05)	
1-1/2" x 1-1/2"	A/FBTA-150x150-FC34-*^-^	4.00 (101.6)	1-1/2"	OR^-3-924	5.51 (2.50)	FBTA-150x150-*^-^	4.05 (1.84)	
2" x 1-1/2"	A/FBTA-200x150-FC34-*^-^	2.16 (55.0)	1-1/2"	OR^-3-928	5.74 (2.61)	FBTA-200x150-*^-^	3.67 (1.67)	
2" x 2"	A/FBTA-200x200-FC34-*^-^	4.50 (114.3)	2"	OR^-3-928	8.52 (3.87)	FBTA-200x200-*^-^	6.45 (2.93)	

Flange Option:

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.

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

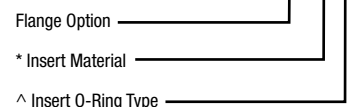
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

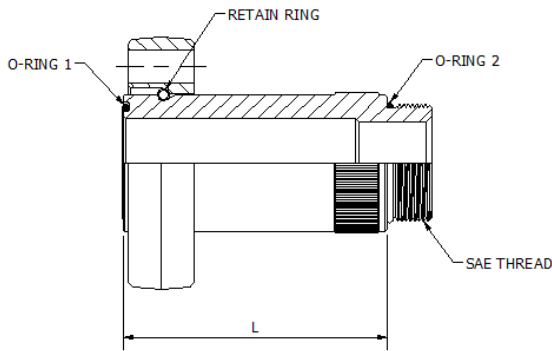
V = Viton.

Ordering Example: A/FBTA-200x150-FC34-SS-V



SAE 3000 PSI SAE Male Thread Adapter Complete Assembly

SAE J518 Code 61 (ISO 6162-1)



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 G25)

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 Number	O-Ring 2 (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)
		L							
1/2" x 3/8"	A/STA-050x038-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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-FC34-*^-^	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, 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.

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

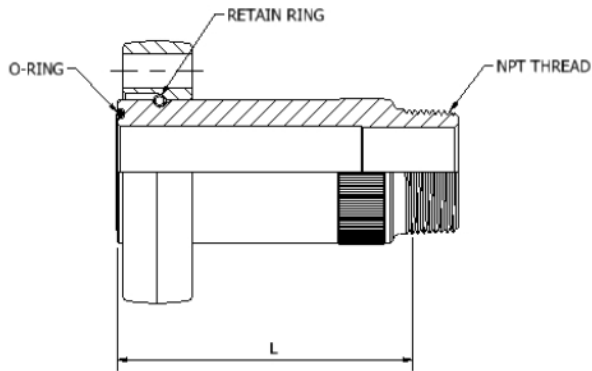
Ordering Example: A/STA-200x150-FC34-SS-V



3D step models available upon request

SAE 3000 PSI NPT Male Thread Adapter Complete Assembly

SAE J518 Code 61 (ISO 6162-1)



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 G25)

A/NTA – NPT Male Thread Adapter Complete Assembly

Size (flange x thread)	Complete Assembly Part Number	Dimensions in (mm)		NPTF Thread (Dryseal)	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)
		L						
1/2" x 1/2"	A/NTA-050x050-FC34-*^-^	2.88 (73.15)		1/2"-14	OR^-3-909	1.07 (0.49)	NTA-050x050-*	0.57 (0.26)
1/2" x 3/4"	A/NTA-050x075-FC34-*^-^	2.86 (72.64)		3/4"-14	OR^-3-909	1.24 (0.56)	NTA-050x075-*	0.74 (0.34)
3/4" x 1/2"	A/NTA-075x050-FC34-*^-^	3.00 (76.2)		1/2"-14	OR^-3-913	1.57 (0.71)	NTA-075x050-*	1.07 (0.49)
3/4" x 3/4"	A/NTA-075x075-FC34-*^-^	2.98 (75.69)		3/4"-14	OR^-3-913	1.57 (0.71)	NTA-075x075-*	1.07 (0.49)
3/4" x 1"	A/NTA-075x100-FC34-*^-^	3.07 (77.98)		1"-11-1/2	OR^-3-913	1.64 (0.74)	NTA-075x100-*	1.19 (0.54)
1" x 3/4"	A/NTA-100x075-FC34-*^-^	3.23 (82.04)		3/4"-14	OR^-3-916	1.91 (0.87)	NTA-100x075-*	1.28 (0.58)
1" x 1"	A/NTA-100x100-FC34-*^-^	3.32 (84.33)		1"-11-1/2	OR^-3-916	1.97 (0.89)	NTA-100x100-*	1.34 (0.61)
1" x 1-1/4"	A/NTA-100x125-FC34-*^-^	3.33 (84.58)		1-1/4"-11-1/2	OR^-3-916	2.25 (1.02)	NTA-100x125-*	1.62 (0.73)
1-1/4" x 1"	A/NTA-125x100-FC34-*^-^	3.57 (90.68)		1"-11-1/2	OR^-3-918	2.74 (1.24)	NTA-125x100-*	1.84 (0.83)
1-1/4" x 1-1/4"	A/NTA-125x125-FC34-*^-^	3.58 (90.93)		1-1/4"-11-1/2	OR^-3-918	2.77 (1.26)	NTA-125x125-*	1.87 (0.85)
1-1/4" x 1-1/2"	A/NTA-125x150-FC34-*^-^	3.61 (91.69)		1-1/2"-11-1/2	OR^-3-918	3.12 (1.42)	NTA-125x150-*	2.18 (0.99)
1-1/2" x 1-1/4"	A/NTA-150x125-FC34-*^-^	4.58 (116.33)		1-1/4"-11-1/2	OR^-3-924	3.90 (1.77)	NTA-150x125-*	3.00 (1.56)
1-1/2" x 1-1/2"	A/NTA-150x150-FC34-*^-^	4.61 (117.09)		1-1/2"-11-1/2	OR^-3-924	4.45 (2.02)	NTA-150x150-*	3.10 (1.41)
1-1/2" x 2"	A/NTA-150x200-FC34-*^-^	4.63 (117.60)		2"-11-1/2	OR^-3-924	4.95 (2.25)	NTA-150x200-*	3.60 (1.36)
2" x 1-1/2"	A/NTA-200x150-FC34-*^-^	4.61 (117.09)		1-1/2"-11-1/2	OR^-3-928	5.98 (2.71)	NTA-200x150-*	3.96 (1.80)
2" x 2"	A/NTA-200x200-FC34-*^-^	4.63 (117.60)		2"-11-1/2	OR^-3-928	6.02 (2.73)	NTA-200x200-*	4.00 (1.81)

Flange Option:

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.

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

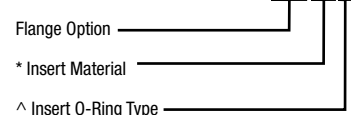
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

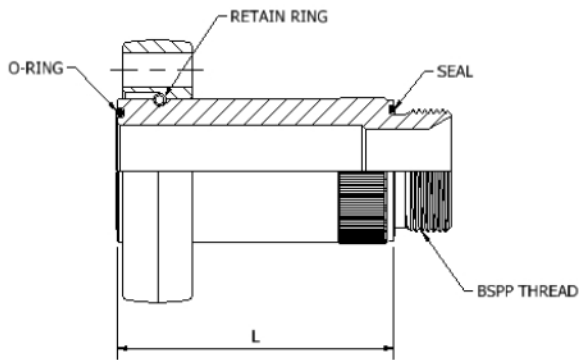
V = Viton.

Ordering Example: A/NTA-200x150-FC34-SS-V



SAE 3000 PSI BSPP Male Thread Adapter Complete Assembly

SAE J518 Code 61 (ISO 6162-1)



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 G25)

A/BTA – BSPP Male Thread Adapter Complete Assembly

Size (flange x thread)	Complete Assembly Part Number	Dimensions in (mm)		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)
		L							
1/2"x 1/2"	A/BTA-050x050-FC34-*^-^	2.63 (66.80)		1/2"-14	OR^-3-909	DR^-G050	1.06 (0.48)	BTA-050x050-*	0.60 (0.27)
1/2"x 3/4"	A/BTA-050x075-FC34-*^-^	2.63 (66.80)		3/4"-14	OR^-3-909	DR^-G075	1.16 (0.53)	BTA-050x075-*	0.70 (0.32)
3/4"x 1/2"	A/BTA-075x050-FC34-*^-^	2.75 (69.85)		1/2"-14	OR^-3-913	DR^-G050	1.57 (0.71)	BTA-075x050-*	1.07 (0.49)
3/4"x 3/4"	A/BTA-075x075-FC34-*^-^	2.75 (69.85)		3/4"-14	OR^-3-913	DR^-G075	1.57 (0.71)	BTA-075x075-*	1.07 (0.49)
3/4"x 1"	A/BTA-075x100-FC34-*^-^	2.75 (69.85)		1"-11	OR^-3-913	DR^-G100	1.57 (0.71)	BTA-075x100-*	1.07 (0.49)
1"x 3/4"	A/BTA-100x075-FC34-*^-^	3.00 (76.20)		3/4"-14	OR^-3-916	DR^-G075	1.82 (0.83)	BTA-100x075-*	1.21 (0.55)
1"x 1"	A/BTA-100x100-FC34-*^-^	3.00 (76.20)		1"-11	OR^-3-916	DR^-G100	1.93 (0.88)	BTA-100x100-*	1.30 (0.59)
1"x 1-1/4"	A/BTA-100x125-FC34-*^-^	3.00 (76.20)		1-1/4"-11	OR^-3-916	DR^-G125	2.16 (0.98)	BTA-100x125-*	1.55 (0.70)
1-1/4"x 1"	A/BTA-125x100-FC34-*^-^	3.25 (82.55)		1"-11	OR^-3-918	DR^-G100	2.70 (1.22)	BTA-125x100-*	1.80 (0.82)
1-1/4"x 1-1/4"	A/BTA-125x125-FC34-*^-^	3.25 (82.55)		1-1/4"-11	OR^-3-918	DR^-G125	2.81 (1.27)	BTA-125x125-*	1.87 (0.85)
1-1/4"x 1-1/2"	A/BTA-125x150-FC34-*^-^	3.25 (82.55)		1-1/2"-11	OR^-3-918	DR^-G150	2.90 (1.32)	BTA-125x150-*	2.00 (0.91)
1-1/2"x 1-1/4"	A/BTA-150x125-FC34-*^-^	4.25 (107.95)		1-1/4"-11	OR^-3-924	DR^-G125	4.45 (2.02)	BTA-150x125-*	3.02 (1.37)
1-1/2"x 1-1/2"	A/BTA-150x150-FC34-*^-^	4.25 (107.95)		1-1/2"-11	OR^-3-924	DR^-G150	4.35 (1.97)	BTA-150x150-*	3.00 (1.36)
1-1/2" x 2"	A/BTA-150x200-FC34-*^-^	4.25 (107.95)		2"-11	OR^-3-924	BS^-3236	4.95 (2.25)	BTA-150x200-*	3.60 (1.63)
2"x 1-1/2"	A/BTA-200x150-FC34-*^-^	4.38 (111.25)		1-1/2"-11	OR^-3-928	DR^-G150	5.98 (2.71)	BTA-200x150-*	3.94 (1.79)
2" x 2"	A/BTA-200x200-FC34-*^-^	4.38 (111.25)		2"-11	OR^-3-928	BS^-3236	6.02 (2.73)	BTA-200x200-*	4.00 (1.81)

Flange Option:

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.

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

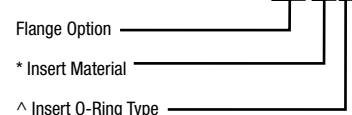
SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

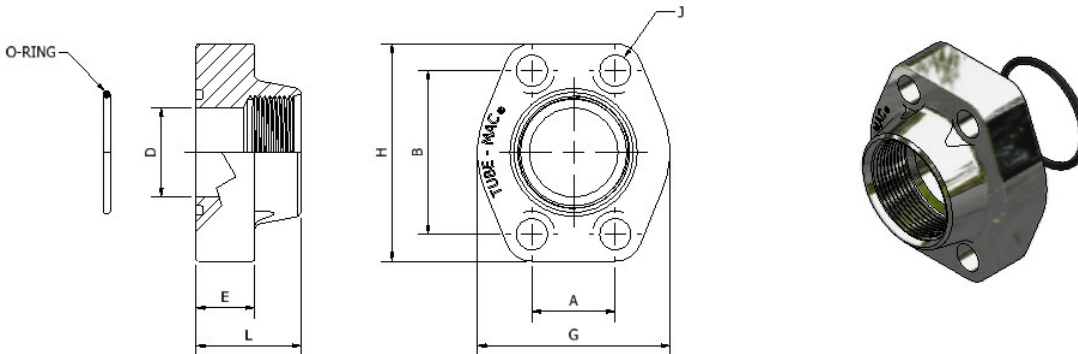
Ordering Example: A/BTA-200x150-FC34-SS-V



3D step models available upon request

SAE 3000 PSI SAE Female Thread Flange with O-Ring Face and Clearance Holes

SAE J518 Code 61 (ISO 6162-1)



STFO34 - Female Thread Flange with O-Ring Face and Clearance Holes

Size	Flange Part Number	Dimensions (in)							SAE Thread UNF-2A	Drill Dia. (in) J	Bolt Minimum Grade 8	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)	Bolt Torque ft.lbs.
		A	B	D	E	L	G	H							
1/2"	STFO34-050-*^-^	0.69	1.50	0.51	0.63	1.42	1.81	2.16	3/4"-16	0.35	5/16" UNC	OR^-2-210	0.55 (0.25)	5000 (350)	15-18
3/4"	STFO34-075-*^-^	0.88	1.88	0.75	0.71	1.42	2.06	2.56	1-1/16"-12	0.43	3/8" UNC	OR^-2-214	0.86 (0.39)	5000 (350)	20-30
1"	STFO34-100-*^-^	1.03	2.06	0.98	0.71	1.50	2.31	2.76	1-5/16"-12	0.43	3/8" UNC	OR^-2-219	1.00 (0.45)	5000 (350)	20-30
1-1/4"	STFO34-125-*^-^	1.19	2.31	1.26	0.83	1.61	2.88	3.11	1-5/8"-12	0.45	7/16" UNC	OR^-2-222	1.46 (0.66)	4000 (275)	40-50
1-1/2"	STFO34-150-*^-^	1.41	2.75	1.50	0.98	1.77	3.25	3.66	1-7/8"-12	0.53	1/2" UNC	OR^-2-225	2.31 (1.05)	3000 (210)	80-90

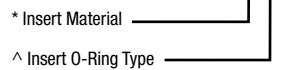
*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

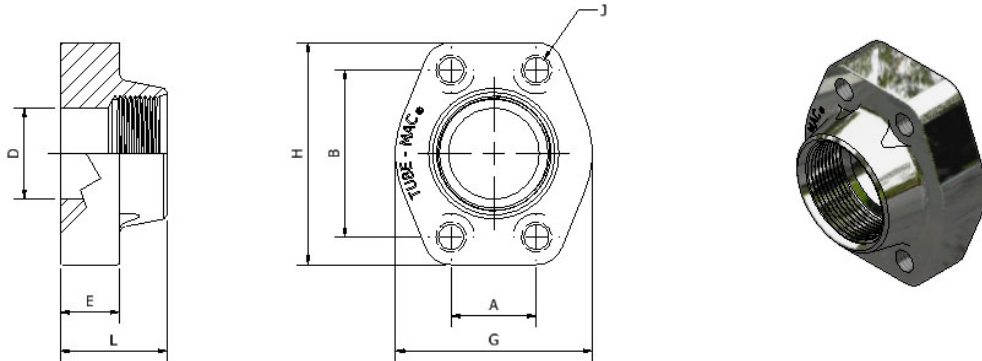
Standard, No Designation = Buna Nitrile.
 V = Viton.

Ordering Example: SFT034-150-SS-V



SAE 3000 PSI SAE Female Thread Flange with Flat Face and Threaded Holes

SAE J518 Code 61 (ISO 6162-1)



STFF34 - Female Thread Flange with Flat Face and Threaded Holes

Size	Flange Part Number	Dimensions (in)							SAE Thread UNF-2A	Bolt Thread UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)	Bolt Torque ft.lbs.
		A	B	D	E	L	G	H					
1/2"	STFF34-050-*^-^	0.69	1.50	0.51	0.63	1.42	1.81	2.16	3/4"-16	5/16"	0.55 (0.25)	5000 (350)	15-18
3/4"	STFF34-075-*^-^	0.88	1.88	0.75	0.71	1.42	2.06	2.56	1 1/16"-12	3/8"	0.86 (0.39)	5000 (350)	20-30
1"	STFF34-100-*^-^	1.03	2.06	0.98	0.71	1.50	2.31	2.76	1 5/16"-12	3/8"	1.00 (0.45)	5000 (350)	20-30
1-1/4"	STFF34-125-*^-^	1.19	2.31	1.26	0.83	1.61	2.88	3.11	1 5/8"-12	7/16"	1.46 (0.66)	4000 (275)	40-50
1-1/2"	STFF34-150-*^-^	1.41	2.75	1.50	0.98	1.77	3.25	3.66	1 7/8"-12	1/2"	2.31 (1.05)	3000 (210)	80-90

* Materials:

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

^ O-Ring Type:

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

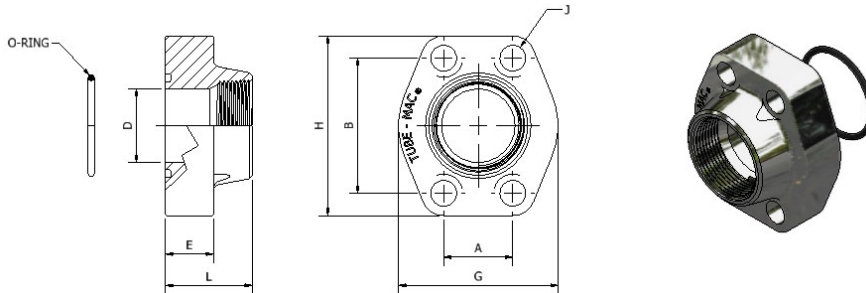
Ordering Example: STFF34-150-SS-V

* Insert Material

^ Insert O-Ring Type

SAE 3000 PSI NPT Female Thread Flange with O-Ring Face and Clearance Holes

SAE J518 Code 61 (ISO 6162-1)



NTF034 - NPT Female Thread Flange with O-Ring Face and Clearance Holes

Size	Flange Part Number	Dimensions (in)							NPTF Thread	Drill Dia. (in) J	Bolt Minimum Grade 8	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)	Bolt Torque ft.lbs.
		A	B	D	E	L	G	H							
1/2"	NTF034-050-*-*^	0.69	1.50	0.51	0.63	1.42	1.81	2.16	1/2"-14	0.35	5/16" UNC	OR^-2-210	0.55 (0.25)	5000 (350)	15-18
3/4"	NTF034-075-*-*^	0.88	1.88	0.75	0.71	1.42	2.06	2.56	3/4"-14	0.43	3/8" UNC	OR^-2-214	0.86 (0.39)	5000 (350)	20-30
1"	NTF034-100-*-*^	1.03	2.06	0.98	0.71	1.50	2.31	2.76	1"-11-1/2	0.43	3/8" UNC	OR^-2-219	1.00 (0.45)	5000 (350)	20-30
1-1/4"	NTF034-125-*-*^	1.19	2.31	1.26	0.83	1.61	2.88	3.11	1-1/4"-11-1/2	0.45	7/16" UNC	OR^-2-222	1.46 (0.66)	4000 (275)	40-50
1-1/2"	NTF034-150-*-*^	1.41	2.75	1.50	0.98	1.77	3.25	3.66	1-1/2"-11-1/2	0.53	1/2" UNC	OR^-2-225	2.31 (1.05)	3000 (210)	80-90
2"	NTF034-200-*-*^	1.69	3.06	2.01	0.98	1.77	3.81	4.02	2"-11-1/2	0.53	1/2" UNC	OR^-2-228	2.62 (1.19)	3000 (210)	80-90
2-1/2"	NTF034-250-*-*^	2.00	3.50	2.48	0.98	1.97	4.28	4.49	2-1/2"-8	0.53	1/2" UNC	OR^-2-232	3.09 (1.40)	2500 (175)	80-90
3"	NTF034-300-*-*^	2.44	4.19	2.87	1.06	1.97	5.16	5.28	3"-8	0.69	5/8" UNC	OR^-2-237	4.74 (2.15)	2000 (140)	110-120

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

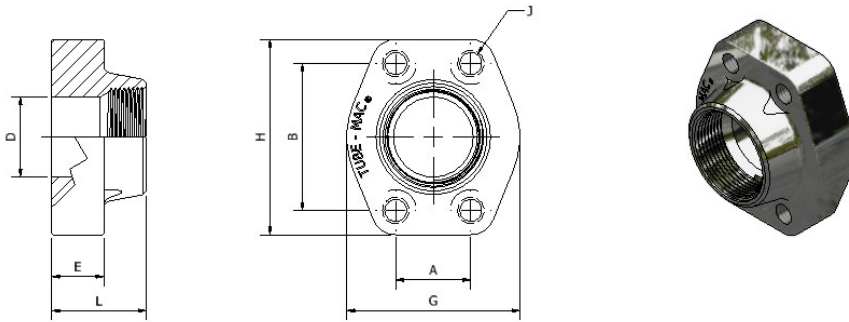
Standard, No Designation = Buna Nitrile.
 V = Viton.

Ordering Example: NTF034-200-SS-V

* Insert Material _____
 ^ Insert O-Ring Type _____

SAE 3000 PSI NPT Female Thread Flange with Flat Face and Threaded Holes

SAE J518 Code 61 (ISO 6162-1)



NTFF34 - NPT Female Thread Flange with Flat Face and Threaded Holes

Size	Flange Part Number	Dimensions (in)							NPTF Thread	Bolt Thread UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)	Bolt Torque ft.lbs.
		A	B	D	E	L	G	H					
1/2"	NTFF34-050-* [^]	0.69	1.50	0.51	0.63	1.42	1.81	2.16	1/2"-14	5/16"	0.55 (0.25)	5000 (350)	15-18
3/4"	NTFF34-075-* [^]	0.88	1.88	0.75	0.71	1.42	2.06	2.56	3/4"-14	3/8"	0.86 (0.39)	5000 (350)	20-30
1"	NTFF34-100-* [^]	1.03	2.06	0.98	0.71	1.50	2.31	2.76	1"-11-1/2	3/8"	1.00 (0.45)	5000 (350)	20-30
1-1/4"	NTFF34-125-* [^]	1.19	2.31	1.26	0.83	1.61	2.88	3.11	1-1/4"-11-1/2	7/16"	1.46 (0.66)	4000 (275)	40-50
1-1/2"	NTFF34-150-* [^]	1.41	2.75	1.50	0.98	1.77	3.25	3.66	1-1/2"-11-1/2	1/2"	2.31 (1.05)	3000 (210)	80-90
2"	NTFF34-200-* [^]	1.69	3.06	2.01	0.98	1.77	3.81	4.02	2"-11-1/2	1/2"	2.62 (1.19)	3000 (210)	80-90
2-1/2"	NTFF34-250-* [^]	2.00	3.50	2.48	0.98	1.97	4.28	4.49	2-1/2"-8	1/2"	3.09 (1.40)	2500 (175)	80-90
3"	NTFF34-300-* [^]	2.44	4.19	2.87	1.06	1.97	5.16	5.28	3"-8	5/8"	4.74 (2.15)	2000 (140)	110-120

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

[^] O-Ring Type:

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

Ordering Example: NTFF34-200-SS-V

* Insert Material _____
[^] Insert O-Ring Type _____

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

ISO 6164, 400 bar F10° Flare

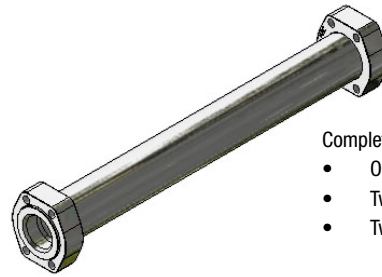
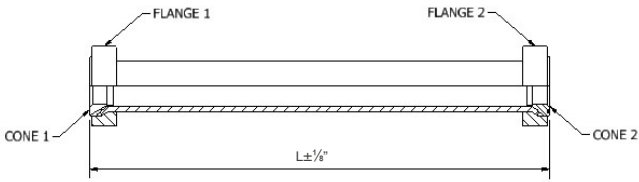
Clamp Supports - Heavy Series

Valves, Ball and Check

G45

SAE 3000 PSI Flare Flange Pipe Assembly, NPS

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								
	♦♦TMP37CD	37								
Pipe & Cone Material Stainless Steel	TMP304SS	304								
	TMP316SS	316								
	♦TMP2205SS	2205								
Pipe Size & Schedule	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								
2"	SCH40-200									
	SCH80-200									
2-1/2"	SCH40-250									
	SCH80-250									
3"	SCH40-300									
	SCH80-300									
Flange Type Carbon Steel	FFC34 SAE Code 61 W/Clearance Holes	FC34								
	*FFT34 SAE Code 61 W/Tapped Holes	FT34								
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								

♦♦TMP37CD PIPE IS ONLY AVAILABLE IN 2-1/2" & 3" SCHEDULE 40 SIZES

♦TMP2205SS PIPE IS ONLY AVAILABLE UPON REQUEST

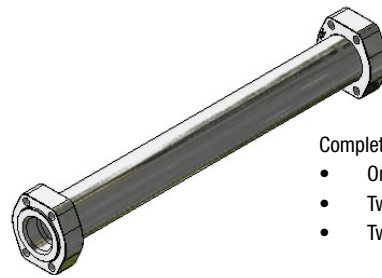
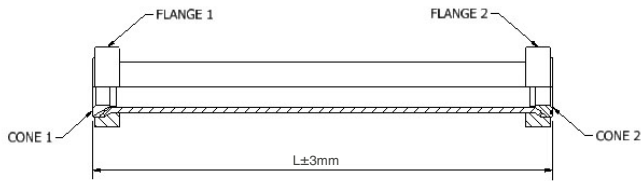
* NORMALLY USED FOR CONNECTION TO SPLIT FLANGE TYPE ENDS

PART Number (EXAMPLE): PAF/52 - SCH80-100 - FC34 - FC34 - CO - CF - 240

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

SAE 3000 PSI Flare Flange Pipe Assembly, Metric

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								
	TMP37CD	37								
Pipe & Cone Material Stainless Steel	TMP304SS	304								
	TMP316SS	316								
	♦TMP2205SS	2205								
Pipe Size & Schedule	1/2"	20x3.0-050								
		25x3.0-050								
	3/4"	25x3.0-075								
		30x3.0-075								
	1"	30x4.0-100								
		38x4.0-100								
	1-1/4"	38x4.0-125								
		42x4.0-125								
	1-1/2"	50x3.0-150								
		50x5.0-150								
2"	60x3.0-200									
	60x5.0-200									
2-1/2"	73x7.0-250									
	75x5.0-250									
3"	75x5.0-300									
	90x5.0-300									
Flange Type Carbon Steel	FFCM34 SAE Code 61 W/Clearance Holes	FCM34								
	*FTM34 SAE Code 61 W/Tapped Holes	FTM34								
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

* NORMALLY USED FOR CONNECTION TO SPLIT FLANGE TYPE ENDS

PART Number (EXAMPLE): PAF/52 - 30x4.0 - 100 - FCM34 - FCM34 - CO - CF - 6000

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

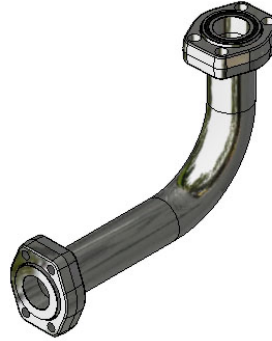
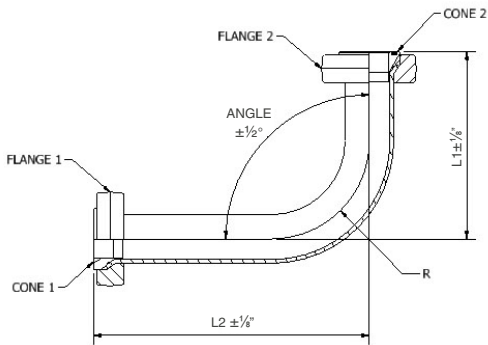
3D step models available upon request

SAE 3000 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
- Two (2) cones



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
2-1/2"	9.75	5.75	12.63	8.63	17.00	12.50
3"	11.00	7.00	14.50	10.50	19.50	15.00

Note:

OTHER RADII AVAILABLE (CONSULT FACTORY)

SAE 3000 PSI Flare Flange Bent Pipe Assembly, NPS

Code		BPAF	Pipe & Cone Material	Pipe Size & Schedule	Flange 1	Flange 2	Cone 1	Cone 2	Rad.	Lgth L1	Ang	Lgth L2	Options	
Bent Pipe Assembly - Flared		BPAF												
Pipe & Cone Material Carbon Steel	TMP52CD	52												
	♦♦TMP37CD	37												
Pipe & Cone Material Stainless Steel	TMP304SS	304												
	TMP316SS	316												
	♦TMP2205SS	2205												
Pipe Size & Schedule	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												
2"	SCH40-200													
	SCH80-200													
2-1/2"	SCH40-250													
	SCH80-250													
3"	SCH40-300													
	SCH80-300													
Flange Type Carbon Steel	FFC34 SAE Code 61 W/Clearance Holes	FC34												
	FFT34 SAE Code 61 W/Threaded Holes	FT34												
Cone Type	Cone - Flat Face	CF												
	Cone - 'O' Ring Face	CO												
Radius	Field Manufactured	R1												
	Factory Manufactured	R2												
Length	L1	Specify (in.)												
Angle	Max 90°	Specify (°)												
Length	L2	Specify (in.)												
Options	Viton	V												
	Painted (Specify)	P												
	Complete Stainless Steel Assembly: (including flanges)	SS												

♦♦TMP37CD PIPE IS ONLY AVAILABLE IN 2-1/2" & 3" SCHEDULE 40 SIZES
 ♦TMP2205SS PIPE IS ONLY AVAILABLE UPON REQUEST

PART Number (EXAMPLE): BPAF/52-SCH80-100-FC34-FC34-CO-CF-R1-125-90-115

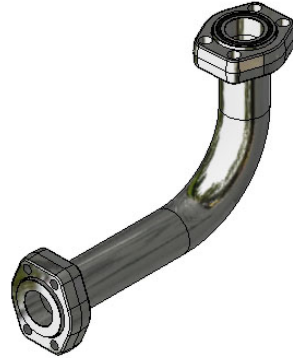
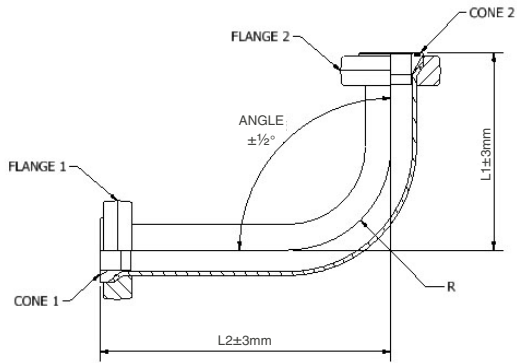
ASSEMBLY WORKING PRESSURE RATINGS ARE SUBJECT TO THE LESSER OF THE FLANGE OR PIPE RATINGS

Consult factory for ordering assistance

3D step models available upon request

SAE 3000 PSI Flare Flange Bent Pipe Assembly, Metric

Typical BPAF Assembly



Complete Flange Set Includes:

- One (1) length of 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
2-1/2"	264	150	339	225	414	300
3"	294	180	384	270	474	360

Note:

OTHER RADII AVAILABLE (CONSULT FACTORY)

SAE 3000 PSI Flare Flange Bent Pipe Assembly, Metric

		Code	BPAF	Pipe & Cone Material	Pipe Size & Schedule	Flange 1	Flange 2	Cone 1	Cone 2	Rad.	Lgth L1	Angle	Lgth L2	Options	
Bent Pipe Assembly - Flared		BPAF													
Pipe & Cone Material Carbon Steel	TMP52CD	52													
	TMP37CD	37													
Pipe & Cone Material Stainless Steel	TMP304SS	304													
	TMP316SS	316													
	♦TMP2205SS	2205													
Pipe Size & Schedule	1/2"	20x3.0-050													
		25x3.0-050													
	3/4"	25x3.0-075													
		30x3.0-075													
	1"	30x4.0-100													
		38x4.0-100													
	1-1/4"	38x4.0-125													
		42x4.0-125													
	1-1/2"	50x3.0-150													
		50x5.0-150													
2"	60x3.0-200														
	60x5.0-200														
2-1/2"	73x7.0-250														
	75x5.0-250														
3"	75x5.0-300														
	90x5.0-300														
Flange Type Carbon Steel	FFCM34 SAE Code 61 W/Clearance Holes	FCM34													
	*FTM34 SAE Code 61 W/Tapped Holes	FTM34													
Cone Type	Cone - Flat Face	CF													
	Cone - 'O' Ring Face	CO													
Radius	Field Manufactured	R1													
	Factory Manufactured	R2													
Length	L1	Specify (mm)													
Angle	Max 90°	Specify (°)													
Length	L2	Specify (mm)													
Options	Viton	V													
	Painted (Specify)	P													
	Complete Stainless Steel Assembly: (including flanges)	SS													

♦TMP2205SS PIPE IS ONLY AVAILABLE UPON REQUEST

* NORMALLY USED FOR CONNECTION TO SPLIT FLANGE TYPE ENDS

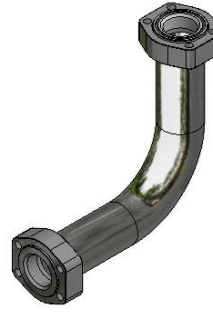
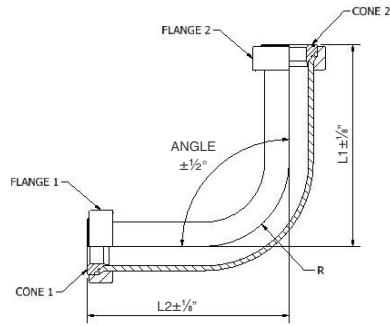
PART Number (EXAMPLE): BPAF/52 - 30x4.0-100 - FCM34 - FCM34 - CO - CF - R1 - 125 - 90 - 115

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

3D step models available upon request

SAE 3000 PSI Flare Flange Bend Elbow Complete Assembly, NPS

SAE J518 Code 61 (ISO 6162-1)



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)		Working Pressure PSI (bar)
		R	L1	R	L1	R	L1	
1/2"	A/FFE-SCH40-050-FC34-FC34-CO-CO-•-•-^	1.68	4.5	2.52	5.5	3.875	6.75	5000 (350)
1/2"	A/FFE-SCH80-050-FC34-FC34-CO-CO-•-•-^	1.68	4.5	2.52	5.5	3.875	6.75	5000 (350)
3/4"	A/FFE-SCH40-075-FC34-FC34-CO-CO-•-•-^	2.1	5.0	3.15	6.0	4.25	7.0	5000 (350)
3/4"	A/FFE-SCH80-075-FC34-FC34-CO-CO-•-•-^	2.1	5.0	3.15	6.0	4.25	7.0	5000 (350)
1"	A/FFE-SCH40-100-FC34-FC34-CO-CO-•-•-^	2.63	5.5	3.95	7.0	4.875	7.75	4700 (325)
1"	A/FFE-SCH80-100-FC34-FC34-CO-CO-•-•-^	2.63	5.5	3.95	7.0	4.875	7.75	5000 (350)
1-1/4"	A/FFE-SCH40-125-FC34-FC34-CO-CO-•-•-^	3.32	6.375	4.98	8.0	5.625	8.625	4000 (280)
1-1/4"	A/FFE-SCH80-125-FC34-FC34-CO-CO-•-•-^	3.32	6.375	4.98	8.0	5.625	8.625	4000 (280)
1-1/2"	A/FFE-SCH40-150-FC34-FC34-CO-CO-•-•-^	3.8	7.5	5.7	9.25	8.1875	11.75	3500 (240)
1-1/2"	A/FFE-SCH80-150-FC34-FC34-CO-CO-•-•-^	3.8	7.5	5.7	9.25	8.1875	11.75	4000 (280)
1-1/2"	A/FFE-SCH160-150-FC34-FC34-CO-CO-•-•-^	3.8	7.5	5.7	9.25	8.1875	11.75	4000 (280)
2"	A/FFE-SCH40-200-FC34-FC34-CO-CO-•-•-^	4.75	8.5	7.125	10.75	9 7/16	13	2900 (200)
2"	A/FFE-SCH80-200-FC34-FC34-CO-CO-•-•-^	4.75	8.5	7.125	10.75	9 7/16	13	4000 (280)
2"	A/FFE-SCH160-200-FC34-FC34-CO-CO-•-•-^	4.75	8.5	7.125	10.75	9 7/16	13	4000 (280)
2-1/2"	A/FFE-SCH40-250-FC34-FC34-CO-CO-•-•-^	5.75	9.75	8.625	12.625	12.5	17	2600 (180)
2-1/2"	A/FFE-SCH80-250-FC34-FC34-CO-CO-•-•-^	5.75	9.75	8.625	12.625	12.5	17	3000 (210)
2-1/2"	A/FFE-SCH160-250-FC34-FC34-CO-CO-•-•-^	5.75	9.75	8.625	12.625	12.5	17	3000 (210)
3"	A/FFE-SCH40-300-FC34-FC34-CO-CO-•-•-^	7.0	11.0	10.5	14.5	15	19.5	2300 (160)
3"	A/FFE-SCH80-300-FC34-FC34-CO-CO-•-•-^	7.0	11.0	10.5	14.5	15	19.5	3000 (210)

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

Cone Options:

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

Bend Radius Options:

- R1
- R2
- R3

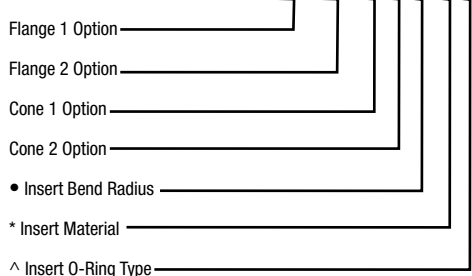
*** Materials**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = All Stainless Steel, Type 316.

^ O-Ring Type:

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

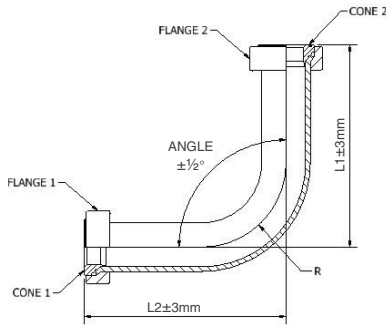
Ordering Example: A/FFE-SCH40-200-FC34-FC34-CO-CO-R1-SS-V



3D step models available upon request

SAE 3000 PSI Flare Flange Bend Elbow Complete Assembly, Metric

SAE J518 Code 61 (ISO 6162-1)



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)		Working Pressure PSI (bar)
		R	L1	R	L1	R	L1	
1/2"	A/FFEM-20x3.0-050-FCM34-FCM34-CO-CO- *-^	40	116	60	136	80	156	5000 (350)
1/2"	A/FFEM-25x3.0-050-FCM34-FCM34-CO-CO- *-^	50	126	75	151	100	176	5000 (350)
3/4"	A/FFEM-25x3.0-075-FCM34-FCM34-CO-CO- *-^	50	124	75	149	100	174	5000 (350)
3/4"	A/FFEM-30x3.0-075-FCM34-FCM34-CO-CO- *-^	60	134	90	164	120	194	5000 (350)
1"	A/FFEM-30x4.0-100-FCM34-FCM34-CO-CO- *-^	60	137	90	167	120	197	4700 (325)
1"	A/FFEM-38x4.0-100-FCM34-FCM34-CO-CO- *-^	76	153	114	191	152	229	5000 (350)
1-1/4"	A/FFEM-38x4.0-125-FCM34-FCM34-CO-CO- *-^	76	154	114	192	152	230	4000 (280)
1-1/4"	A/FFEM-42x4.0-125-FCM34-FCM34-CO-CO- *-^	84	162	126	204	168	246	4000 (280)
1-1/2"	A/FFEM-42x4.0-150-FCM34-FCM34-CO-CO- *-^	84	178	126	220	168	262	3500 (240)
1-1/2"	A/FFEM-50x3.0-150-FCM34-FCM34-CO-CO- *-^	100	194	150	244	200	294	4000 (280)
1-1/2"	A/FFEM-50x5.0-150-FCM34-FCM34-CO-CO- *-^	100	194	150	244	200	294	4000 (280)
2"	A/FFEM-50x5.0-200-FCM34-FCM34-CO-CO- *-^	100	195	150	245	200	295	4000 (280)
2"	A/FFEM-60x5.0-200-FCM34-FCM34-CO-CO- *-^	120	215	180	275	240	335	4000 (280)
2"	A/FFEM-60x6.0-200-FCM34-FCM34-CO-CO- *-^	120	215	180	275	240	335	4000 (280)
2-1/2"	A/FFEM-73x7.0-250-FCM34-FCM34-CO-CO- *-^	146	260	219	333	292	406	3000 (210)
2-1/2"	A/FFEM-75x5.0-250-FCM34-FCM34-CO-CO- *-^	150	264	225	339	300	414	3000 (210)
3"	A/FFEM-75x5.0-300-FCM34-FCM34-CO-CO- *-^	150	264	225	339	300	414	3000 (210)
3"	A/FFEM-90x5.0-300-FCM34-FCM34-CO-CO- *-^	180	294	270	384	360	474	2800 (193)

Flange Options:

Standard, FCM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Clearance Flange
FTM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Metric Threaded Flange

Cone Options:

CO = O-Ring Faced Cone
CF = Flat Faced Cone

Bend Radius Options:

R1
R2
R3

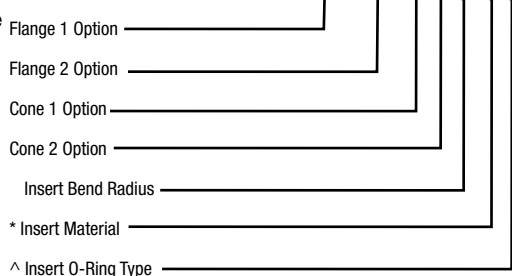
* Materials

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = All Stainless Steel, Type 316

^ O-Ring Type:

No Designation = Buna Nitrile.
V = Viton

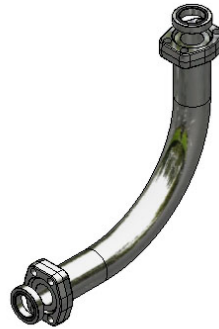
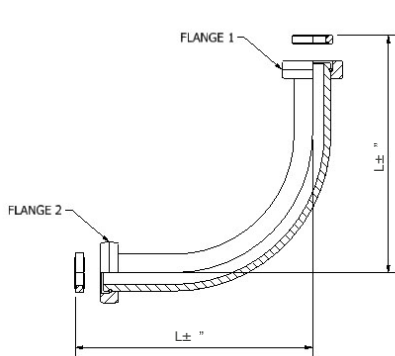
Ordering Example: A/FFEM-60x5.0-200-FCM34-FCM34-CO-CO-R1-SS-V



3D step models available upon request

SAE 3000 PSI Retain Ring Flange Bend Elbow

SAE J518 Code 61 (ISO 6162-1)



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						
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-FC34-*^-^	13.00 (330.20)	14.98 (6.80)	RFE-150-*^-^	11.50 (5.22)	4000 (280)
2"	A/RFE-200-FC34-*^-^	14.50 (368.30)	20.47 (9.30)	RFE-200-*^-^	15.59 (7.07)	4000 (280)
2-1/2"	A/RFE-250-FC34-*^-^	18.00 (457.20)	35.57 (16.17)	RFE-250-*^-^	26.26 (11.91)	3000 (210)
3"	A/RFE-300-FC34-*^-^	21.00 (533.40)	59.48 (27.04)	RFE-300-*^-^	45.80 (20.77)	3000 (210)

Flange Options:

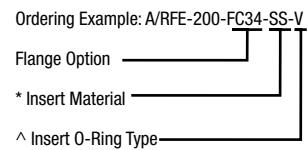
FC34 = SAE 3000 PSI Code 61 (ISO 6162-1) Clearance
 FT34 = SAE 3000 PSI Code 61 (ISO 6162-1) UNC Threaded
 FTM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Metric Threaded

***Materials:**

No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

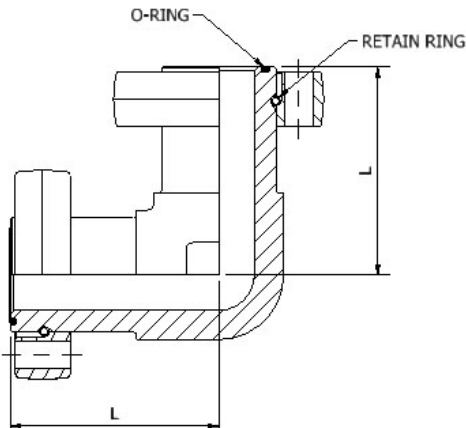
^ O-Ring Type:

No Designation = Buna Nitrile.
 V = Viton.



SAE 3000 PSI Retain Ring Flange Elbow Complete Assembly

SAE J518 Code 61 (ISO 6162-1)



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 Section

A/RRFE - Retain Ring Flange Elbow Complete Assembly

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-FC34-*^-^	2.41 (61.2)		OR^-3-909	1.95 (0.88)	RRFE-050-*^-^	1.09 (0.49)	5000 (350)
3/4"	A/RRFE-075-FC34-*^-^	2.61 (66.2)		OR^-3-913	2.83 (1.28)	RRFE-075-*^-^	1.93 (0.88)	5000 (350)
1"	A/RRFE-100-FC34-*^-^	2.81 (71.4)		OR^-3-916	3.36 (1.52)	RRFE-100-*^-^	2.10 (0.95)	5000 (350)
1-1/4"	A/RRFE-125-FC34-*^-^	3.22 (81.8)		OR^-3-918	4.22 (1.91)	RRFE-125-*^-^	3.28 (1.45)	4000 (280)
1-1/2"	A/RRFE-150-FC34-*^-^	4.01 (101.9)		OR^-3-924	8.70 (3.95)	RRFE-150-*^-^	6.00 (2.72)	4000 (280)
2"	A/RRFE-200-FC34-*^-^	4.40 (111.8)		OR^-3-928	11.74 (5.33)	RRFE-200-*^-^	7.70 (3.49)	4000 (280)
2-1/2"	A/RRFE-250-FC34-*^-^	5.19 (131.9)		OR^-2-232	16.30 (7.39)	RRFE-250-*^-^	11.30 (5.13)	3000 (210)

Flange Options:

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

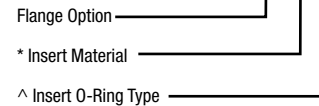
Materials

No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

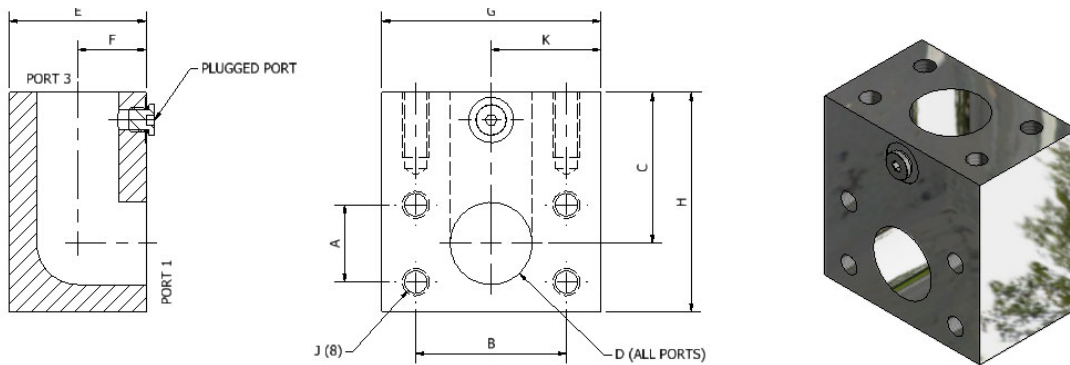
No Designation = Buna Nitrile.
 V = Viton.

Ordering Example: A/RRFE-200-FC34-SS-V



SAE 3000 PSI Block Elbow

SAE J518 Code 61 (ISO 6162-1) Flange Style



BE34 - 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"	BE34-050-*	0.69	1.50	1.88	0.50	2.00	1.00	2.50	2.50	1.25	5/16"-18	3.30 (1.50)	5000 (350)
3/4"	BE34-075-*	0.88	1.88	2.25	0.75	2.00	1.00	3.00	3.25	1.50	3/8"-16	5.00 (2.27)	5000 (350)
1"	BE34-100-*	1.03	2.06	2.25	0.94	2.00	1.00	3.00	3.25	1.50	3/8"-16	4.50 (2.04)	5000 (350)
1-1/4"	BE34-125-*	1.19	2.31	2.75	1.25	2.25	1.13	3.00	4.00	1.50	7/16"-14	5.70 (2.59)	4000 (280)
1-1/2"	BE34-150-*	1.41	2.75	2.75	1.50	2.50	1.25	4.00	4.00	2.00	1/2"-13	8.60 (3.90)	4000 (280)
2"	BE34-200-*	1.69	3.06	3.00	1.94	3.00	1.50	4.00	4.50	2.00	1/2"-13	10.60 (4.81)	4000 (280)
2-1/2"	BE34-250-*	2.00	3.50	3.25	2.38	3.50	1.75	5.00	5.00	2.50	1/2"-13	17.40 (7.89)	3000 (210)
3"	BE34-300-*	2.44	4.19	3.75	2.88	4.00	2.00	5.50	6.00	2.75	5/8"-11	25.60 (11.61)	3000 (210)

BEM34 - 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"	BEM34-050-*	17.5	38.1	47.8	12.7	50.8	25.4	63.5	63.5	31.8	M8 x 1.25	3.30 (1.50)	5000 (350)
3/4"	BEM34-075-*	22.4	47.8	57.2	19.1	50.8	25.4	76.2	82.6	38.1	M10 x 1.50	5.00 (2.27)	5000 (350)
1"	BEM34-100-*	26.2	52.3	57.2	23.9	50.8	25.4	76.2	82.6	38.1	M10 x 1.50	4.50 (2.04)	5000 (350)
1-1/4"	BEM34-125-*	30.2	58.7	69.9	31.8	57.2	28.7	76.2	101.6	38.1	M10 x 1.50	5.70 (2.59)	4000 (280)
1-1/2"	BEM34-150-*	35.8	69.9	69.9	38.1	63.5	31.8	101.6	101.6	50.8	M12 x 1.75	8.60 (3.90)	4000 (280)
2"	BEM34-200-*	42.9	77.7	76.2	49.3	76.2	38.1	101.6	114.3	50.8	M12 x 1.75	10.60 (4.81)	4000 (280)
2-1/2"	BEM34-250-*	50.8	88.9	82.6	60.5	88.9	44.5	127.0	127.0	63.5	M12 x 1.75	17.40 (7.89)	3000 (210)
3"	BEM34-300-*	62.0	106.4	95.3	73.2	101.6	50.8	139.70	152.4	69.9	M16 x 2.00	25.60 (11.61)	3000 (210)

Materials:

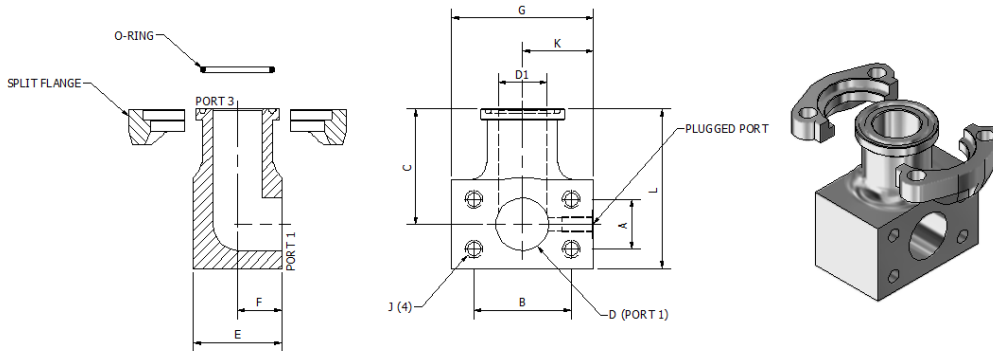
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

Ordering Example: BEM34-200-SS

* Insert Material _____

SAE 3000 PSI Split Flange Elbow

SAE J518 Code 61 (ISO 6162-1) Flange Style



Complete Flange Set Includes:

- One (1) Split Flange Elbow
- One (1) Set (2 Halves) Split Flange
- One (1) O-Ring
- One (1) Component Bolt Kit

A/SFE34 - Split Flange Elbow Assembly Flat Face with Threaded Holes Complete with Buna O-Rings and #4 SAE Port (Plugged), NPS

Size	Complete Assembly Part Number	Dimensions (in)										Thread UNC-2B	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFE34-050-*^	0.69	1.50	2.50	0.50	0.38	2.00	1.00	2.50	1.25	3.50	5/16"-18	OR^2-210	3.37 (1.59)	SFE34-050-*^	2.95 (1.34)	5000 (350)
3/4"	A/SFE34-075-*^	0.88	1.88	2.75	0.75	0.63	2.00	1.00	3.00	1.50	3.75	3/8"-16	OR^2-214	4.01 (1.82)	SFE34-075-*^	3.50 (1.59)	5000 (350)
1"	A/SFE34-100-*^	1.03	2.06	2.75	0.94	0.88	2.00	1.00	3.00	1.50	3.75	3/8"-16	OR^2-219	4.05 (1.84)	SFE34-100-*^	3.40 (1.54)	5000 (350)
1-1/4"	A/SFE34-125-*^	1.19	2.31	3.13	1.25	1.13	2.25	1.13	3.00	1.50	4.25	7/16"-14	OR^2-222	5.19 (2.35)	SFE34-125-*^	4.30 (1.95)	4000 (280)
1-1/2"	A/SFE34-150-*^	1.41	2.75	3.25	1.50	1.38	2.50	1.25	4.00	2.00	4.50	1/2"-13	OR^2-225	8.14 (3.69)	SFE34-150-*^	6.70 (3.04)	4000 (280)
2"	A/SFE34-200-*^	1.69	3.06	3.50	1.94	1.88	3.50	1.75	4.00	2.00	5.00	1/2"-13	OR^2-228	10.66 (4.84)	SFE34-200-*^	9.10 (4.13)	4000 (280)
2-1/2"	A/SFE34-250-*^	2.00	3.50	4.00	2.38	2.38	3.50	1.75	4.50	2.25	5.75	1/2"-13	OR^2-232	14.93 (6.77)	SFE34-250-*^	12.80 (5.81)	3000 (210)
3"	A/SFE34-300-*^	2.44	4.19	4.50	2.88	2.88	4.00	2.00	5.50	2.75	6.50	5/8"-11	OR^2-237	24.15 (10.95)	SFE34-300-*^	20.50 (9.30)	3000 (210)

A/SFEM34 - Split Flange Elbow Assembly Flat Face with Threaded Holes Complete with Buna O-Rings and G1/8 Port (Plugged), Metric

Size	Complete Assembly Part Number	Dimensions (mm)										Thread	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFEM34-050-*^	17.5	38.1	63.5	12.7	9.7	50.8	25.4	63.5	31.8	88.9	M8 x 1.25	OR^2-210	3.37 (1.59)	SFEM34-050-*^	2.95 (1.34)	5000 (350)
3/4"	A/SFEM34-075-*^	22.4	47.8	69.9	19.1	16.0	50.8	25.4	76.2	38.1	95.3	M10 x 1.50	OR^2-214	4.01 (1.82)	SFEM34-075-*^	3.50 (1.59)	5000 (350)
1"	A/SFEM34-100-*^	26.2	52.3	69.9	23.9	22.4	50.8	25.4	76.2	38.1	95.3	M10 x 1.50	OR^2-219	4.05 (1.84)	SFEM34-100-*^	3.40 (1.54)	5000 (350)
1-1/4"	A/SFEM34-125-*^	30.2	58.7	79.5	31.8	28.7	57.2	28.7	76.2	38.1	108.0	M10 x 1.50	OR^2-222	5.19 (2.35)	SFEM34-125-*^	4.30 (1.95)	4000 (280)
1-1/2"	A/SFEM34-150-*^	35.8	69.9	82.6	38.1	34.9	63.5	31.8	101.6	50.8	114.3	M12 x 1.75	OR^2-225	8.14 (3.69)	SFEM34-150-*^	6.70 (3.04)	4000 (280)
2"	A/SFEM34-200-*^	42.9	77.7	88.9	49.3	47.8	76.2	38.1	101.6	50.8	127.0	M12 x 1.75	OR^2-228	10.66 (4.84)	SFEM34-200-*^	9.10 (4.13)	4000 (280)
2-1/2"	A/SFEM34-250-*^	50.8	88.9	101.6	60.5	60.5	88.9	44.5	114.3	57.2	146.1	M12 x 1.75	OR^2-232	14.93 (6.77)	SFEM34-250-*^	12.80 (5.81)	3000 (210)
3"	A/SFEM34-300-*^	62.0	106.4	114.3	73.2	73.2	101.6	50.8	139.7	69.9	165.1	M16 x 2.00	OR^2-237	24.15 (10.95)	SFEM34-300-*^	20.50 (9.30)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/SFE34-200-SS-V

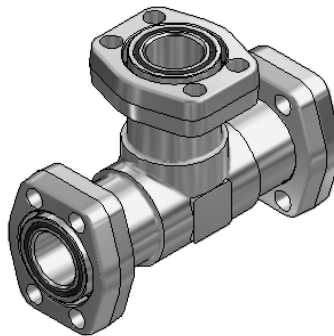
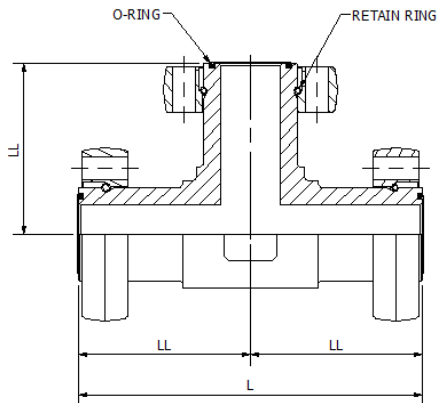
* Insert Material _____

^ Insert O-Ring Type _____

3D step models available upon request

SAE 3000 PSI Retain Ring Flange Tee Complete Assembly

SAE J518 Code 61 (ISO 6162-1)



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 Section

A/RRFT - Retain Ring 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-FC34-*^-^	4.81 (122.2)	2.41 (112.0)	OR^3-909	2.75 (1.25)	RRFT-050-*^-^	1.46 (0.66)	5000 (350)
3/4"	A/RRFT-075-FC34-*^-^	5.22 (132.6)	2.61 (66.3)	OR^3-913	3.96 (1.50)	RRFT-075-*^-^	2.61 (1.18)	5000 (350)
1"	A/RRFT-100-FC34-*^-^	5.62 (142.7)	2.81 (71.4)	OR^3-916	4.74 (2.15)	RRFT-100-*^-^	2.91 (1.32)	5000 (350)
1-1/4"	A/RRFT-125-FC34-*^-^	6.45 (163.8)	3.21 (81.6)	OR^3-918	7.71 (3.50)	RRFT-125-*^-^	4.89 (2.22)	4000 (280)
1-1/2"	A/RRFT-150-FC34-*^-^	8.02 (183.3)	4.01 (101.9)	OR^3-924	9.48 (4.30)	RRFT-150-*^-^	8.10 (3.76)	4000 (280)
2"	A/RRFT-200-FC34-*^-^	8.81 (223.8)	4.40 (111.8)	OR^3-928	13.94 (6.32)	RRFT-200-*^-^	9.90 (4.44)	4000 (280)
2-1/2"	A/RRFT-250-FC34-*^-^	10.38 (263.7)	5.19 (131.8)	OR^2-232	23.55(10.68)	RRFT-250-*^-^	15.36 (6.97)	3000 (210)

Flange Options:

FC34 = SAE 3000 PSI Code 61 (ISO 6162-1) Clearance

FT34 = SAE 3000 PSI Code 61 (ISO 6162-1) UNC Threaded

FTM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Metric Threaded

Materials:

No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/RRFT-200-FC34-SS-V

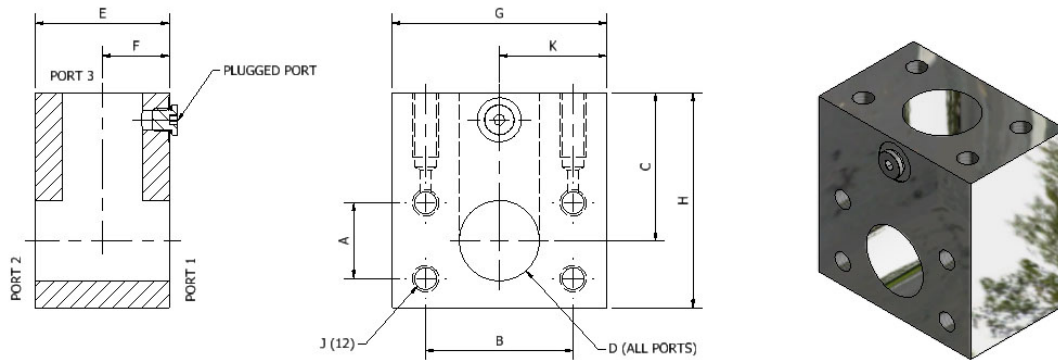
Flange Option _____

* Insert Material _____

^ Insert O-Ring Type _____

SAE 3000 PSI Block Tee

SAE J518 Code 61 (ISO 6162-1) Flange Style



BT34 - 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"	BT34-050-*	0.69	1.50	1.88	0.50	2.00	1.00	2.50	2.50	1.25	5/16"-18	3.10 (1.41)	5000 (350)
3/4"	BT34-075-*	0.88	1.88	2.25	0.75	2.00	1.00	3.00	3.25	1.50	3/8"-16	4.60 (2.09)	5000 (350)
1"	BT34-100-*	1.03	2.06	2.25	0.94	2.00	1.00	3.00	3.25	1.50	3/8"-16	4.30 (1.95)	5000 (350)
1-1/4"	BT34-125-*	1.19	2.31	2.75	1.25	2.25	1.13	3.00	4.00	1.50	7/16"-14	5.70 (2.59)	4000 (280)
1-1/2"	BT34-150-*	1.41	2.75	2.75	1.50	2.50	1.25	4.00	4.00	2.00	1/2"-13	8.20 (3.72)	4000 (280)
2"	BT34-200-*	1.69	3.06	3.00	1.94	3.00	1.50	4.00	4.50	2.00	1/2"-13	10.00 (4.54)	4000 (280)
2-1/2"	BT34-250-*	2.00	3.50	3.25	2.38	3.50	1.75	5.00	5.00	2.50	1/2"-13	16.30 (7.39)	3000 (210)
3"	BT34-300-*	2.44	4.19	3.75	2.88	4.00	2.00	5.50	6.00	2.75	5/8"-11	23.70 (10.75)	3000 (210)

BTM34 - 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"	BTM34-050-*	17.5	38.1	47.8	12.7	50.8	25.4	63.5	63.5	31.8	M8 x 1.25	3.10 (1.41)	5000 (350)
3/4"	BTM34-075-*	22.4	47.8	57.2	19.1	50.8	25.4	76.2	82.6	38.1	M10 x 1.50	4.60 (2.09)	5000 (350)
1"	BTM34-100-*	26.2	52.3	57.2	23.9	50.8	25.4	76.2	82.6	38.1	M10 x 1.50	4.30 (1.95)	5000 (350)
1-1/4"	BTM34-125-*	30.2	58.7	69.9	31.8	57.2	28.7	76.2	101.6	38.1	M10 x 1.50	5.70 (2.59)	4000 (280)
1-1/2"	BTM34-150-*	35.8	69.9	69.9	38.1	63.5	31.8	101.6	101.6	50.8	M12 x 1.75	8.20 (3.72)	4000 (280)
2"	BTM34-200-*	42.9	77.7	76.2	49.3	76.2	38.1	101.6	114.3	50.8	M12 x 1.75	10.00 (4.54)	4000 (280)
2-1/2"	BTM34-250-*	50.8	88.9	82.6	60.5	88.9	44.5	127.0	127.0	63.5	M12 x 1.75	16.30 (7.39)	3000 (210)
3"	BTM34-300-*	62.0	106.4	95.3	73.2	101.6	50.8	139.7	152.4	69.9	M16 x 2.00	23.70 (10.75)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

Ordering Example: BT34-200-SS

* Insert Material

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

ISO 6164, 400 bar F10° Flare

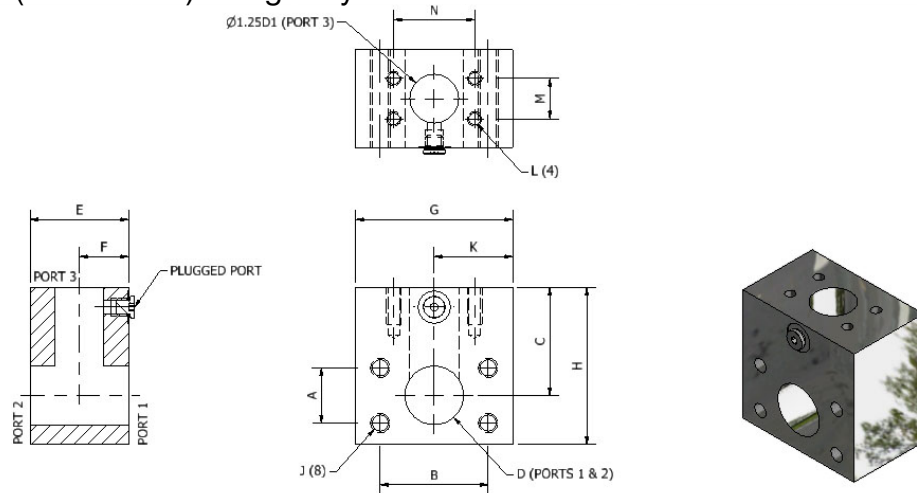
Clamp Supports - Heavy Series

Valves, Ball and Check

G59

SAE 3000 PSI Reducing Branch Block Tee - NPS

SAE J518 Code 61 (ISO 6162-1) Flange Style



BTR34 - 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"	BTR34-075x050-*	0.88	1.88	2.25	0.75	0.50	2.00	1.00	3.00	3.25	1.50	0.69	1.50	3/8"-16	5/16"-18	4.80 (2.18)	5000 (350)
1"x1/2"	BTR34-100x050-*	1.03	2.06	2.25	0.94	0.50	2.00	1.00	3.00	3.25	1.50	0.69	1.50	3/8"-16	5/16"-18	4.70 (2.13)	5000 (350)
1"x3/4"	BTR34-100x075-*	1.03	2.06	2.25	0.94	0.75	2.00	1.00	3.00	3.25	1.50	0.88	1.88	3/8"-16	3/8"-16	4.60 (2.09)	5000 (350)
1-1/4"x1/2"	BTR34-125x050-*	1.19	2.31	2.75	1.25	0.50	2.25	1.13	3.00	4.00	1.50	0.69	1.50	7/16"-14	5/16"-18	5.80 (2.63)	4000 (280)
1-1/4"x3/4"	BTR34-125x075-*	1.19	2.31	2.75	1.25	0.75	2.25	1.13	3.00	4.00	1.50	0.88	1.88	7/16"-14	3/8"-16	5.80 (2.63)	4000 (280)
1-1/4"x1"	BTR34-125x100-*	1.19	2.31	2.75	1.25	0.94	2.25	1.13	3.00	4.00	1.50	1.03	2.06	7/16"-14	3/8"-16	5.80 (2.63)	4000 (280)
1-1/2"x1/2"	BTR34-150x050-*	1.41	2.75	2.75	1.50	0.50	2.50	1.25	4.00	4.00	2.00	0.69	1.50	1/2"-13	5/16"-18	9.25 (4.20)	4000 (280)
1-1/2"x3/4"	BTR34-150x075-*	1.41	2.75	2.75	1.50	0.75	2.50	1.25	4.00	4.00	2.00	0.88	1.88	1/2"-13	3/8"-16	9.20 (4.17)	4000 (280)
1-1/2"x1"	BTR34-150x100-*	1.41	2.75	2.75	1.50	0.94	2.50	1.25	4.00	4.00	2.00	1.03	2.06	1/2"-13	3/8"-16	9.00 (4.08)	4000 (280)
1-1/2"x1-1/4"	BTR34-150x125-*	1.41	2.75	2.75	1.50	1.25	2.50	1.25	4.00	4.00	2.00	1.19	2.31	1/2"-13	7/16"-14	8.65 (3.92)	4000 (280)
2"x1/2"	BTR34-200x050-*	1.69	3.06	3.00	1.94	0.50	3.00	1.50	4.00	4.50	2.00	0.69	1.50	1/2"-13	5/16"-18	11.70 (5.31)	4000 (280)
2"x3/4"	BTR34-200x075-*	1.69	3.06	3.00	1.94	0.75	3.00	1.50	4.00	4.50	2.00	0.88	1.88	1/2"-13	3/8"-16	11.60 (5.26)	4000 (280)
2"x1"	BTR34-200x100-*	1.69	3.06	3.00	1.94	0.94	3.00	1.50	4.00	4.50	2.00	1.03	2.06	1/2"-13	3/8"-16	11.60 (5.26)	4000 (280)
2"x1-1/4"	BTR34-200x125-*	1.69	3.06	3.00	1.94	1.25	3.00	1.50	4.00	4.50	2.00	1.19	2.31	1/2"-13	7/16"-14	11.60 (5.26)	4000 (280)
2"x1-1/2"	BTR34-200x150-*	1.69	3.06	3.00	1.94	1.50	3.00	1.50	4.00	4.50	2.00	1.41	2.75	1/2"-13	1/2"-13	11.60 (5.26)	4000 (280)
2-1/2"x1/2"	BTR34-250x050-*	2.00	3.50	3.25	2.38	0.50	3.50	1.75	5.00	5.00	2.50	0.69	1.50	1/2"-13	5/16"-18	19.40 (8.80)	3000 (210)
2-1/2"x3/4"	BTR34-250x075-*	2.00	3.50	3.25	2.38	0.75	3.50	1.75	5.00	5.00	2.50	0.88	1.88	1/2"-13	3/8"-16	19.20 (8.71)	3000 (210)
2-1/2"x1"	BTR34-250x100-*	2.00	3.50	3.25	2.38	0.94	3.50	1.75	5.00	5.00	2.50	1.03	2.06	1/2"-13	3/8"-16	19.00 (8.62)	3000 (210)
2-1/2"x1-1/4"	BTR34-250x125-*	2.00	3.50	3.25	2.38	1.25	3.50	1.75	5.00	5.00	2.50	1.19	2.31	1/2"-13	7/16"-14	18.80 (8.53)	3000 (210)
2-1/2"x1-1/2"	BTR34-250x150-*	2.00	3.50	3.25	2.38	1.50	3.50	1.75	5.00	5.00	2.50	1.41	2.75	1/2"-13	1/2"-13	18.30 (8.30)	3000 (210)
2-1/2"x2"	BTR34-250x200-*	2.00	3.50	3.25	2.38	1.94	3.50	1.75	5.00	5.00	2.50	1.69	3.06	1/2"-13	1/2"-13	17.56 (7.97)	3000 (210)
3"x1/2"	BTR34-300x050-*	2.44	4.19	3.75	2.88	0.50	4.00	2.00	5.50	6.00	2.75	0.69	1.50	5/8"-11	5/16"-18	28.20 (12.80)	3000 (210)
3"x3/4"	BTR34-300x075-*	2.44	4.19	3.75	2.88	0.75	4.00	2.00	5.50	6.00	2.75	0.88	1.88	5/8"-11	3/8"-16	26.00 (11.79)	3000 (210)
3"x1"	BTR34-300x100-*	2.44	4.19	3.75	2.88	0.94	4.00	2.00	5.50	6.00	2.75	1.03	2.06	5/8"-11	3/8"-16	26.00 (11.79)	3000 (210)
3"x1-1/4"	BTR34-300x125-*	2.44	4.19	3.75	2.88	1.25	4.00	2.00	5.50	6.00	2.75	1.19	2.31	5/8"-11	7/16"-14	28.13 (12.78)	3000 (210)
3"x1-1/2"	BTR34-300x150-*	2.44	4.19	3.75	2.88	1.50	4.00	2.00	5.50	6.00	2.75	1.41	2.75	5/8"-11	1/2"-13	27.67 (12.55)	3000 (210)
3"x2"	BTR34-300x200-*	2.44	4.19	3.75	2.88	1.94	4.00	2.00	5.50	6.00	2.75	1.69	3.06	5/8"-11	1/2"-13	26.87 (12.19)	3000 (210)
3"x2-1/2"	BTR34-300x250-*	2.44	4.19	3.75	2.88	2.38	4.00	2.00	5.50	6.00	2.75	2.00	3.50	5/8"-11	1/2"-13	25.30 (11.48)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

Ordering Example: BTR34-200x050-SS

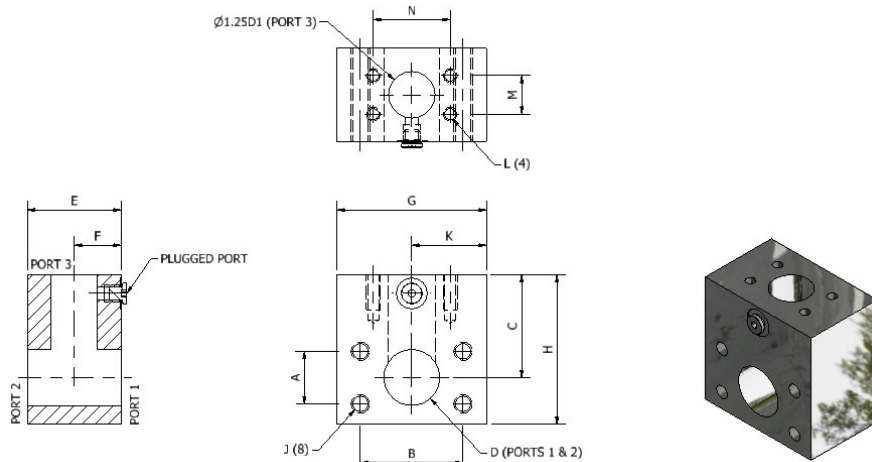
* Insert Material _____



3D step models available upon request

SAE 3000 PSI Reducing Branch Block Tee - Metric

SAE J518 Code 61 (ISO 6162-1) Flange Style



BTRM34 - 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"	BTRM34-075x050-*	22.4	47.8	57.2	19.1	12.7	50.8	25.4	76.2	82.6	38.1	17.5	38.1	M10 X 1.50	M8 X 1.25	4.80 (2.18)	5000 (350)
1"x1/2"	BTRM34-100x050-*	26.2	52.3	57.2	23.9	12.7	50.8	25.4	76.2	82.6	38.1	17.5	38.1	M10 X 1.50	M8 X 1.25	4.70 (2.13)	5000 (350)
1"x3/4"	BTRM34-100x075-*	26.2	52.3	57.2	23.9	19.1	50.8	25.4	76.2	82.6	38.1	22.4	47.8	M10 X 1.50	M10 X 1.50	4.60 (2.09)	5000 (350)
1-1/4"x1/2"	BTRM34-125x050-*	30.2	58.7	69.9	31.8	12.7	57.2	28.7	76.2	101.6	38.1	17.5	38.1	M10 X 1.50	M8 X 1.25	5.80 (2.63)	4000 (280)
1-1/4"x3/4"	BTRM34-125x075-*	30.2	58.7	69.9	31.8	19.1	57.2	28.7	76.2	101.6	38.1	22.4	47.8	M10 X 1.50	M10 X 1.50	5.80 (2.63)	4000 (280)
1-1/4"x1"	BTRM34-125x100-*	30.2	58.7	69.9	31.8	23.9	57.2	28.7	76.2	101.6	38.1	26.2	52.3	M10 X 1.50	M10 X 1.50	5.80 (2.63)	4000 (280)
1-1/2"x1/2"	BTRM34-150x050-*	35.8	69.9	69.9	38.1	12.7	63.5	31.8	101.6	101.6	50.8	17.5	38.1	M12 X 1.75	M8 X 1.25	9.25 (4.20)	4000 (280)
1-1/2"x3/4"	BTRM34-150x075-*	35.8	69.9	69.9	38.1	19.1	63.5	31.8	101.6	101.6	50.8	22.4	47.8	M12 X 1.75	M10 X 1.50	9.20 (4.17)	4000 (280)
1-1/2"x1"	BTRM34-150x100-*	35.8	69.9	69.9	38.1	23.9	63.5	31.8	101.6	101.6	50.8	26.2	52.3	M12 X 1.75	M10 X 1.50	9.00 (4.08)	4000 (280)
1-1/2"x1-1/4"	BTRM34-150x125-*	35.8	69.9	69.9	38.1	31.8	63.5	31.8	101.6	101.6	50.8	30.2	58.7	M12 X 1.75	M10 X 1.50	8.65 (3.92)	4000 (280)
2"x1/2"	BTRM34-200x050-*	42.9	77.7	76.2	49.3	12.7	76.2	38.1	101.6	114.3	50.8	17.5	38.1	M12 X 1.75	M8 X 1.25	11.70 (5.31)	4000 (280)
2"x3/4"	BTRM34-200x075-*	42.9	77.7	76.2	49.3	19.1	76.2	38.1	101.6	114.3	50.8	22.4	47.8	M12 X 1.75	M10 X 1.50	11.60 (5.26)	4000 (280)
2"x1"	BTRM34-200x100-*	42.9	77.7	76.2	49.3	23.9	76.2	38.1	101.6	114.3	50.8	26.2	52.3	M12 X 1.75	M10 X 1.50	11.60 (5.26)	4000 (280)
2"x1-1/4"	BTRM34-200x125-*	42.9	77.7	76.2	49.3	31.8	76.2	38.1	101.6	114.3	50.8	30.2	58.7	M12 X 1.75	M10 X 1.50	11.60 (5.26)	4000 (280)
2"x1-1/2"	BTRM34-200x150-*	42.9	77.7	76.2	49.3	38.1	76.2	38.1	101.6	114.3	50.8	35.8	69.9	M12 X 1.75	M12 X 1.75	11.60 (5.26)	4000 (280)
2-1/2"x1/2"	BTRM34-250x050-*	50.8	88.9	82.6	60.5	12.7	88.9	44.5	127.0	127.0	63.5	17.5	38.1	M12 X 1.75	M8 X 1.25	19.40 (8.80)	3000 (210)
2-1/2"x3/4"	BTRM34-250x075-*	50.8	88.9	82.6	60.5	19.1	88.9	44.5	127.0	127.0	63.5	22.4	47.8	M12 X 1.75	M10 X 1.50	19.20 (8.71)	3000 (210)
2-1/2"x1"	BTRM34-250x100-*	50.8	88.9	82.6	60.5	23.9	88.9	44.5	127.0	127.0	63.5	26.2	52.3	M12 X 1.75	M10 X 1.50	19.00 (8.62)	3000 (210)
2-1/2"x1-1/4"	BTRM34-250x125-*	50.8	88.9	82.6	60.5	31.8	88.9	44.5	127.0	127.0	63.5	30.2	58.7	M12 X 1.75	M10 X 1.50	18.80 (8.53)	3000 (210)
2-1/2"x1-1/2"	BTRM34-250x150-*	50.8	88.9	82.6	60.5	38.1	88.9	44.5	127.0	127.0	63.5	35.8	69.9	M12 X 1.75	M12 X 1.75	18.30 (8.30)	3000 (210)
2-1/2"x2"	BTRM34-250x200-*	50.8	88.9	82.6	60.5	49.3	88.9	44.5	127.0	127.0	63.5	42.9	77.7	M12 X 1.75	M12 X 1.75	17.56 (7.97)	3000 (210)
3"x1/2"	BTRM34-300x050-*	62.0	106.4	95.3	73.2	12.7	101.6	50.8	139.7	152.4	69.9	17.5	38.1	M16 X 2.00	M8 X 1.25	28.20 (12.80)	3000 (210)
3"x3/4"	BTRM34-300x075-*	62.0	106.4	95.3	73.2	19.1	101.6	50.8	139.7	152.4	69.9	22.4	47.8	M16 X 2.00	M10 X 1.50	26.00 (11.79)	3000 (210)
3"x1"	BTRM34-300x100-*	62.0	106.4	95.3	73.2	23.9	101.6	50.8	139.7	152.4	69.9	26.2	52.3	M16 X 2.00	M10 X 1.50	26.00 (11.79)	3000 (210)
3"x1-1/4"	BTRM34-300x125-*	62.0	106.4	95.3	73.2	31.8	101.6	50.8	139.7	152.4	69.9	30.2	58.7	M16 X 2.00	M10 X 1.50	28.13 (12.78)	3000 (210)
3"x1-1/2"	BTRM34-300x150-*	62.0	106.4	95.3	73.2	38.1	101.6	50.8	139.7	152.4	69.9	35.8	69.9	M16 X 2.00	M12 X 1.75	27.67 (12.55)	3000 (210)
3"x2"	BTRM34-300x200-*	62.0	106.4	95.3	73.2	49.3	101.6	50.8	139.7	152.4	69.9	42.9	77.7	M16 X 2.00	M12 X 1.75	26.87 (12.19)	3000 (210)
3"x2-1/2"	BTRM34-300x250-*	62.0	106.4	95.3	73.2	60.5	101.6	50.8	139.7	152.4	69.9	50.8	88.9	M16 X 2.00	M12 X 1.75	25.30 (11.48)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

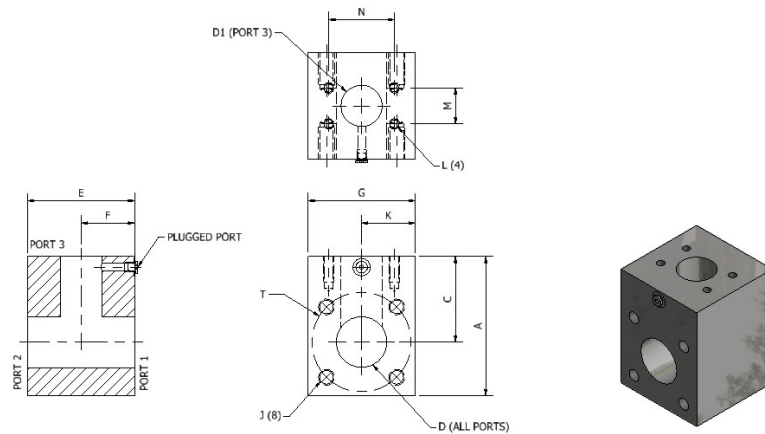
3D step models available upon request

Ordering Example: BTRM34-200x050-SS

* Insert Material _____

SAE 3000 PSI Reducing Branch Block Tee

ISO 6164/SAE J518 Code 61 (ISO 6162-1) Flange Style



BTR7-34 - 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"	BTR7-34-250x200-*	4.65	4.00	2.38	1.94	5.00	2.50	5.00	6.50	2.50	1.69	3.06	3/4"-10	1/2"-13	35.60 (16.15)	3000 (210)
3"x2"	BTR7-34-300x200-*	5.71	5.00	2.88	1.94	6.00	3.00	6.00	8.00	3.00	1.69	3.06	1"-8	1/2"-13	63.40 (28.76)	3000 (210)
4"x2"	BTR7-34-400x200-*	6.89	5.50	3.50	1.94	7.00	3.50	7.00	9.00	3.50	1.69	3.06	1-1/8"-7	1/2"-13	97.60 (44.27)	3000 (210)

BTRM7-34 - Reducing Branch Block Tee Flat Face with Threaded Holes Complete with G 1/8 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"	BTRM7-34-250x200-*	118.1	101.6	60.5	49.3	127.0	63.5	127.0	165.1	63.5	42.9	77.7	M20 x 2.50	M12 x 1.75	35.60 (16.15)	3000 (210)
3"x2"	BTRM7-34-300x200-*	145.0	127.0	73.2	49.3	152.4	76.2	152.4	203.2	76.2	42.9	77.7	M24 x 3.00	M12 x 1.75	63.40 (28.76)	3000 (210)
4"x2"	BTRM7-34-400x200-*	175.0	139.7	88.9	49.3	177.8	88.9	177.8	228.6	88.9	42.9	77.7	M30 x 3.50	M12 x 1.75	97.60 (44.27)	3000 (210)

Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

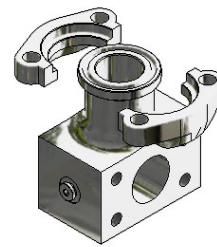
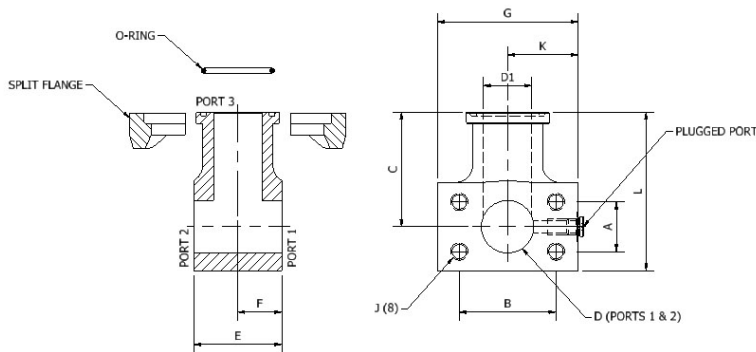
Ordering Example: BTR7-34-250x200-SS

* Insert Material

SAE 3000 PSI Split Flange Branch Tee

Complete Assembly

SAE J518 Code 61 (ISO 6162-1) Flange Style



Complete Flange Set Includes:

- One (1) Split Flange Tee
- One (1) Sets (2 Halves) Split Flanges
- One (1) O-Ring
- One (1) Component Bolt Kit

A/SFBT34 - Split Flange Branch Tee Assembly Flat Face with Threaded Holes

Complete with Buna O-Rings and #4 SAE Port (Plugged), NPS

Size	Complete Assembly Part Number	Dimensions (in)										Thread UNC-2B	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFBT34-050-*^	0.69	1.50	2.50	0.50	0.38	2.00	1.00	2.50	1.25	3.50	5/16"-18	OR^2-210	3.37 (1.53)	SFBT34-050-*^	2.95 (1.34)	5000 (350)
3/4"	A/SFBT34-075-*^	0.88	1.88	2.75	0.75	0.63	2.00	1.00	3.00	1.50	3.75	3/8"-16	OR^2-214	3.81 (1.73)	SFBT34-075-*^	3.30 (1.50)	5000 (350)
1"	A/SFBT34-100-*^	1.03	2.06	2.75	0.94	0.88	2.00	1.00	3.00	1.50	3.75	3/8"-16	OR^2-219	4.03 (1.83)	SFBT34-100-*^	3.38 (1.53)	5000 (350)
1-1/4"	A/SFBT34-125-*^	1.19	2.31	3.13	1.25	1.13	2.25	1.13	3.00	1.50	4.25	7/16"-14	OR^2-222	4.69 (2.13)	SFBT34-125-*^	3.80 (1.72)	4000 (280)
1-1/2"	A/SFBT34-150-*^	1.41	2.75	3.25	1.50	1.38	2.50	1.25	4.00	2.00	4.50	1/2"-13	OR^2-225	7.63 (3.46)	SFBT34-150-*^	6.19 (2.81)	4000 (280)
2"	A/SFBT34-200-*^	1.69	3.06	3.50	1.94	1.88	3.00	1.50	4.00	2.00	5.00	1/2"-13	OR^2-228	9.46 (4.29)	SFBT34-200-*^	7.90 (3.58)	4000 (280)
2-1/2"	A/SFBT34-250-*^	2.00	3.50	4.00	2.38	2.38	3.50	1.75	4.50	2.25	5.75	1/2"-13	OR^2-232	13.43 (6.09)	SFBT34-250-*^	11.30 (5.13)	3000 (210)
3"	A/SFBT34-300-*^	2.44	4.19	4.50	2.88	2.88	4.00	2.00	5.50	2.75	6.50	5/8"-11	OR^2-237	21.35 (9.68)	SFBT34-300-*^	17.70 (8.03)	3000 (210)

A/SFBTM34 - Split Flange Branch Tee Assembly Flat Face with Threaded Holes

Complete With Buna O-Ring and G1/8 Port (Plugged), Metric

Size	Complete Assembly Part Number	Dimensions (mm)										Thread	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFBTM34-050-*^	17.5	38.1	63.5	12.7	9.7	50.8	25.4	63.5	31.8	88.9	M8 x 1.25	OR^2-210	3.37 (1.53)	SFBTM34-050-*^	2.95 (1.34)	5000 (350)
3/4"	A/SFBTM34-075-*^	22.4	47.8	69.9	19.1	16.0	50.8	25.4	76.2	38.1	95.3	M10 x 1.50	OR^2-214	3.81 (1.73)	SFBTM34-075-*^	3.30 (1.50)	5000 (350)
1"	A/SFBTM34-100-*^	26.2	52.3	69.9	23.9	22.4	50.8	25.4	76.2	38.1	95.3	M10 x 1.50	OR^2-219	4.03 (1.83)	SFBTM34-100-*^	3.38 (1.53)	5000 (350)
1-1/4"	A/SFBTM34-125-*^	30.2	58.7	79.5	31.8	28.7	57.2	28.7	76.2	38.1	108.0	M10 x 1.50	OR^2-222	4.69 (2.13)	SFBTM34-125-*^	3.80 (1.72)	4000 (280)
1-1/2"	A/SFBTM34-150-*^	35.8	69.9	82.6	38.1	35.1	63.5	31.8	101.6	50.8	114.3	M12 x 1.75	OR^2-225	7.63 (3.46)	SFBTM34-150-*^	6.19 (2.81)	4000 (280)
2"	A/SFBTM34-200-*^	42.9	77.7	88.9	49.3	47.8	76.2	38.1	101.6	50.8	127.0	M12 x 1.75	OR^2-228	9.46 (4.29)	SFBTM34-200-*^	7.90 (3.58)	4000 (280)
2-1/2"	A/SFBTM34-250-*^	50.8	88.9	101.6	60.5	60.5	88.9	44.5	114.3	57.2	146.1	M12 x 1.75	OR^2-232	13.43 (6.09)	SFBTM34-250-*^	11.30 (5.13)	3000 (210)
3"	A/SFBTM34-300-*^	62.0	106.4	114.3	73.2	73.2	101.6	50.8	139.7	69.9	165.1	M16 x 2.00	OR^2-237	21.35 (9.68)	SFBTM34-300-*^	17.70 (8.03)	3000 (210)

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

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

Ordering Example: A/SFBT34-200-SS-V

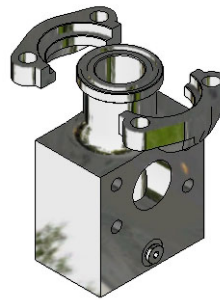
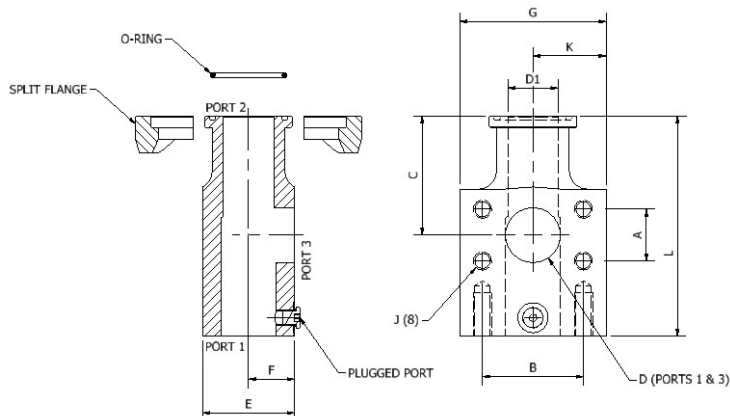
* Insert Material _____

^ Insert O-Ring Type _____

3D step models available upon request

SAE 3000 PSI Split Flange Run Tee Complete Assembly

SAE J518 Code 61 (ISO 6162-1) Flange Style



Complete Flange Set Includes:

- One (1) Split Flange Tee
- One (1) Sets (2 Halves) Split Flanges
- One (1) O-Ring
- One (1) Component Bolt Kit

A/SFRT34 - Split Flange Run Tee Assembly Flat Face with Threaded Holes Complete with Buna O-Rings and #4 SAE Port (Plugged), NPS

Size	Complete Assembly Part Number	Dimensions (in)										Thread UNC-2B	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFRT34-050-*-^	0.69	1.50	2.12	0.50	0.38	2.00	1.00	2.50	1.25	4.00	5/16"-18	OR^2-210	3.97 (1.80)	SFRT34-050-*-^	3.55 (1.61)	5000 (350)
3/4"	A/SFRT34-075-*-^	0.88	1.88	2.75	0.75	0.63	2.00	1.00	3.00	1.50	5.00	3/8"-16	OR^2-214	5.81 (2.64)	SFRT34-075-*-^	5.30 (2.41)	5000 (350)
1"	A/SFRT34-100-*-^	1.03	2.06	2.75	0.94	0.88	2.00	1.00	3.00	1.50	5.00	3/8"-16	OR^2-219	5.85 (2.65)	SFRT34-100-*-^	5.20 (2.36)	5000 (350)
1-1/4"	A/SFRT34-125-*-^	1.19	2.31	3.25	1.25	1.13	2.25	1.13	3.00	1.50	6.00	7/16"-14	OR^2-222	7.06 (3.20)	SFRT34-125-*-^	6.17 (2.80)	4000 (280)
1-1/2"	A/SFRT34-150-*-^	1.41	2.75	3.25	1.50	1.38	2.50	1.25	4.00	2.00	6.00	1/2"-13	OR^2-225	11.04 (5.01)	SFRT34-150-*-^	9.60 (4.35)	4000 (280)
2"	A/SFRT34-200-*-^	1.69	3.06	3.50	1.94	1.88	3.00	1.50	4.00	2.00	6.50	1/2"-13	OR^2-228	13.36 (6.06)	SFRT34-200-*-^	11.80 (5.35)	4000 (280)
2-1/2"	A/SFRT34-250-*-^	2.00	3.50	4.00	2.38	2.38	3.50	1.75	4.50	2.25	7.25	1/2"-13	OR^2-232	18.33 (8.31)	SFRT34-250-*-^	16.20 (7.35)	3000 (210)
3"	A/SFRT34-300-*-^	2.44	4.19	4.75	2.88	2.88	4.00	2.00	5.50	2.75	8.50	5/8"-11	OR^2-237	30.66 (13.91)	SFRT34-300-*-^	27.01 (12.25)	3000 (210)

A/SFRTM34 - Split Flange Run Tee Assembly Flat Face with Threaded Holes Complete with Buna O-Ring and G1/8 Port (Plugged), Metric

Size	Complete Assembly Part Number	Dimensions (mm)										Thread	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFRTM34-050-*-^	17.5	38.1	53.8	12.7	9.7	50.8	25.4	63.5	31.8	101.6	M8 x 1.25	OR^2-210	3.97 (1.80)	SFRTM34-050-*-^	3.55 (1.61)	5000 (350)
3/4"	A/SFRTM34-075-*-^	22.4	47.8	69.9	19.1	16.0	50.8	25.4	76.2	38.1	127.0	M10 x 1.50	OR^2-214	5.81 (2.64)	SFRTM34-075-*-^	5.30 (2.41)	5000 (350)
1"	A/SFRTM34-100-*-^	26.2	52.3	69.9	23.9	22.4	50.8	25.4	76.2	38.1	127.0	M10 x 1.50	OR^2-219	5.85 (2.65)	SFRTM34-100-*-^	5.20 (2.36)	5000 (350)
1-1/4"	A/SFRTM34-125-*-^	30.2	58.7	82.6	31.8	28.7	57.2	28.7	76.2	38.1	152.4	M10 x 1.50	OR^2-222	7.06 (3.20)	SFRTM34-125-*-^	6.17 (2.80)	4000 (280)
1-1/2"	A/SFRTM34-150-*-^	35.8	69.9	82.6	38.1	35.1	63.5	31.8	101.6	50.8	152.4	M12 x 1.75	OR^2-225	11.04 (5.01)	SFRTM34-150-*-^	9.60 (4.35)	4000 (280)
2"	A/SFRTM34-200-*-^	42.9	77.7	88.9	49.3	47.8	76.2	38.1	101.6	50.8	165.1	M12 x 1.75	OR^2-228	13.36 (6.06)	SFRTM34-200-*-^	11.80 (5.35)	4000 (280)
2-1/2"	A/SFRTM34-250-*-^	50.8	88.9	101.6	60.5	60.5	88.9	44.5	114.3	57.2	184.2	M12 x 1.75	OR^2-232	18.33 (8.31)	SFRTM34-250-*-^	16.20 (7.35)	3000 (210)
3"	A/SFRTM34-300-*-^	62.0	106.4	120.7	73.2	73.2	101.6	50.8	139.7	69.9	215.9	M16 x 2.00	OR^2-237	30.66 (13.91)	SFRTM34-300-*-^	27.01 (12.25)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/SFRT34-200-SS-V

* Insert Material

^ Insert O-Ring Type

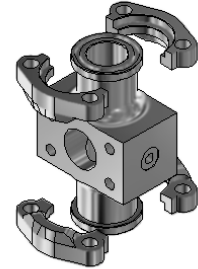
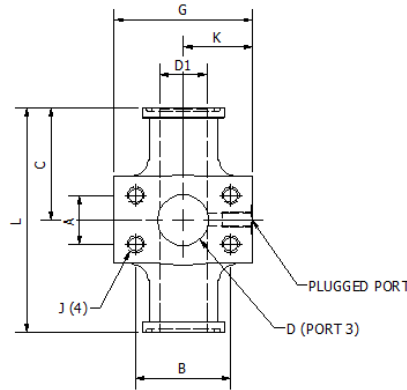
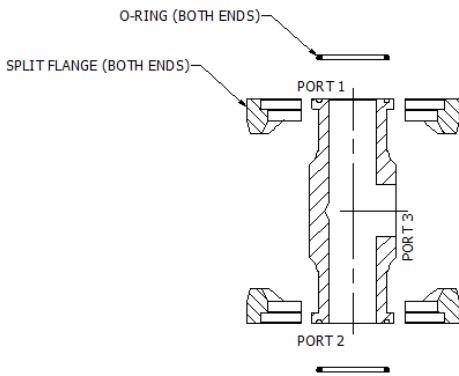
SAE 3000 PSI Split Flange Tee

Complete Assembly

SAE J518 Code 61 (ISO 6162-1) Flange Style

Complete Flange Set Includes:

- One (1) Split Flange Tee
- Two (2) Sets (4 Halves) Split Flanges
- Two (2) O-Rings
- Two (2) Component Bolt Kits



A/SFT34 - Split Flange Tee Assembly Flat Face with Threaded Holes Complete with Buna O-Rings and #4 SAE Port (Plugged), NPS

Size	Complete Assembly Part Number	Dimensions (in)										Thread UNC-2B	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFT34-050-*-^	0.69	1.50	2.50	0.50	0.38	2.00	1.00	2.50	1.25	5.00	5/16"-18	OR^-2-210	3.51 (1.59)	SFT34-050-*-^	2.67 (1.21)	5000 (350)
3/4"	A/SFT34-075-*-^	0.88	1.88	2.75	0.75	0.63	2.00	1.00	3.00	1.50	5.50	3/8"-16	OR^-2-214	4.82 (2.19)	SFT34-075-*-^	3.80 (1.72)	5000 (350)
1"	A/SFT34-100-*-^	1.03	2.06	2.75	0.94	0.88	2.00	1.00	3.00	1.50	5.50	3/8"-16	OR^-2-219	5.40 (2.45)	SFT34-100-*-^	4.10 (1.86)	5000 (350)
1-1/4"	A/SFT34-125-*-^	1.19	2.31	3.13	1.25	1.13	2.25	1.13	3.00	1.50	6.25	7/16"-14	OR^-2-222	6.63 (3.01)	SFT34-125-*-^	4.85 (2.20)	4000 (280)
1-1/2"	A/SFT34-150-*-^	1.41	2.75	3.25	1.50	1.38	2.50	1.25	4.00	2.00	6.50	1/2"-13	OR^-2-225	10.38 (4.71)	SFT34-150-*-^	7.50 (3.41)	4000 (280)
2"	A/SFT34-200-*-^	1.69	3.06	3.50	1.94	1.88	3.00	1.50	4.00	2.00	7.00	1/2"-13	OR^-2-228	12.72 (5.77)	SFT34-200-*-^	9.60 (4.35)	4000 (280)
2-1/2"	A/SFT34-250-*-^	2.00	3.50	4.00	2.38	2.38	3.50	1.75	4.50	2.25	8.00	1/2"-13	OR^-2-232	19.58 (8.88)	SFT34-250-*-^	15.32 (6.95)	3000 (210)
3"	A/SFT34-300-*-^	2.44	4.19	4.50	2.88	2.88	4.00	2.00	5.50	2.75	9.00	5/8"-11	OR^-2-237	28.40 (12.88)	SFT34-300-*-^	21.10 (9.57)	3000 (210)

A/SFTM34 - Split Flange Tee Assembly Flat Face with Threaded Holes Complete with Buna O-Rings and G1/8 Port (Plugged), Metric

Size	Complete Assembly Part Number	Dimensions (mm)										Thread	O-Ring (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	F	G	K	L						
1/2"	A/SFTM34-050-*-^	17.5	38.1	63.5	12.7	9.7	50.8	25.4	63.5	31.8	127.0	M8 x 1.25	OR^-2-210	3.51 (1.59)	SFTM34-050-*-^	2.67 (1.21)	5000 (350)
3/4"	A/SFTM34-075-*-^	22.4	47.8	69.9	19.1	16.0	50.8	25.4	76.2	38.1	139.7	M10 x 1.50	OR^-2-214	4.82 (2.19)	SFTM34-075-*-^	3.80 (1.72)	5000 (350)
1"	A/SFTM34-100-*-^	26.2	52.3	69.9	23.9	22.4	50.8	25.4	76.2	38.1	139.7	M10 x 1.50	OR^-2-219	5.40 (2.45)	SFTM34-100-*-^	4.10 (1.86)	5000 (350)
1-1/4"	A/SFTM34-125-*-^	30.2	58.7	79.5	31.8	28.7	57.2	28.7	76.2	38.1	158.8	M10 x 1.50	OR^-2-222	6.63 (3.01)	SFTM34-125-*-^	4.85 (2.20)	4000 (280)
1-1/2"	A/SFTM34-150-*-^	35.8	69.9	82.6	38.1	34.9	63.5	31.8	101.6	50.8	165.1	M12 x 1.75	OR^-2-225	10.38 (4.71)	SFTM34-150-*-^	7.50 (3.41)	4000 (280)
2"	A/SFTM34-200-*-^	42.9	77.7	88.9	49.3	47.8	76.2	38.1	101.6	50.8	177.8	M12 x 1.75	OR^-2-228	12.72 (5.77)	SFTM34-200-*-^	9.60 (4.35)	4000 (280)
2-1/2"	A/SFTM34-250-*-^	50.8	88.9	101.6	60.5	60.5	88.9	44.5	114.3	57.2	203.2	M12 x 1.75	OR^-2-232	19.58 (8.88)	SFTM34-250-*-^	15.32 (6.95)	3000 (210)
3"	A/SFTM34-300-*-^	62.0	106.4	114.3	73.2	73.2	101.6	50.8	139.7	69.9	228.6	M16 x 2.00	OR^-2-237	28.40 (12.88)	SFTM34-300-*-^	21.10 (9.57)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: A/SFT34-200-SS-V

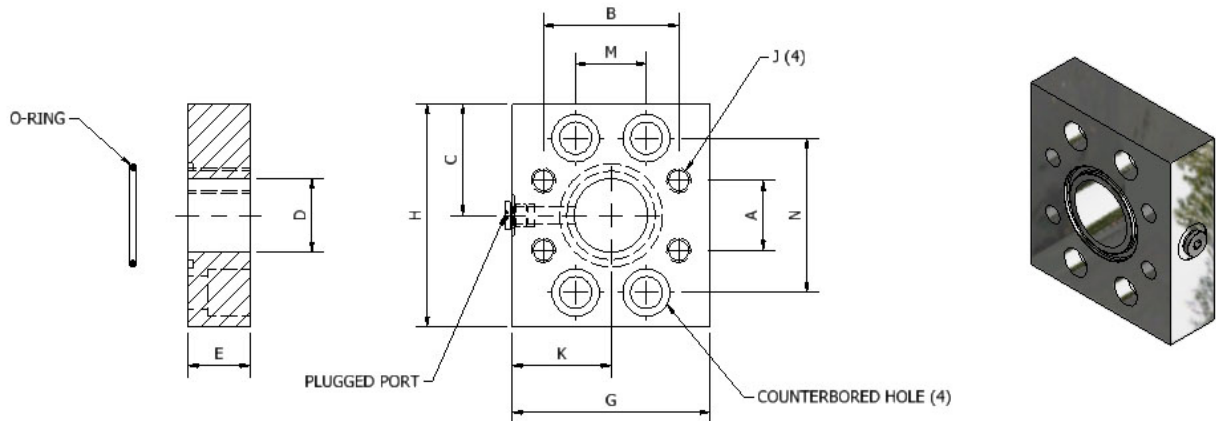
* Insert Material

^ Insert O-Ring Type

3D step models available upon request

SAE 3000 PSI Transition Plate

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



TPO6-34 - 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 Number	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 Hole Complete with Buna O-Ring and G1/8 Port (Plugged), Metric

Size	Transition Plate Part Number	Dimensions (mm)										C'T Bore Bolt	Thread 1	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	G	H	K	M	N					
1/2"	TPOM6-34-050-*^-^	17.5	38.1	31.8	12.7	25.4	63.5	63.5	38.1	18.3	40.6	M8	M8 x 1.25	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	M10 x 1.50	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	M10 x 1.50	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	M10 x 1.50	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	M12 x 1.75	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	M12 x 1.75	OR^-2-228	7.40 (3.36)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

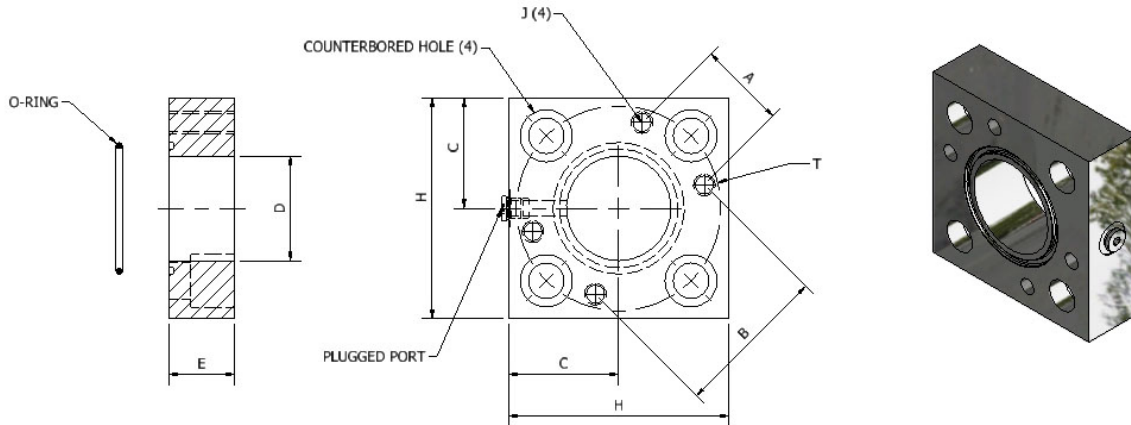
Ordering Example: TP06-34-200-SS-V

* Insert Material _____

^ Insert O-Ring Type _____

SAE 3000 PSI Transition Plate

ISO 6164/SAE Code 61 (ISO6164/6162-1) Flange Manifold Mount Style



TPO7-34 - 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 UNC-2B	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	H	T					
2-1/2"	TP07-34-250-*^-^	2.00	3.50	2.50	2.38	1.50	5.00	4.65	3/4"	1/2"-13	OR^-2-232	5.50 (2.49)	2500 (175)
3"	TP07-34-300-*^-^	2.44	4.19	3.00	2.88	1.75	6.00	5.71	1"	5/8"-11	OR^-2-237	10.85 (4.92)	2000 (140)

TPOM7-34 - Transition Plate O-Ring Face with Counterbored Holes Complete with Buna O-Ring and G1/8 Port (Plugged), Metric

Size	Transition Plate Part Number	Dimensions (mm)							C'T Bore Bolt	Thread	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	H	T					
2-1/2"	TPOM7-34-250-*^-^	50.8	88.9	63.5	60.5	31.8	127.0	118.1	M20	M12 x 1.75	OR^-2-232	5.50 (2.49)	2500 (175)
3"	TPOM7-34-300-*^-^	62.0	106.4	76.2	73.2	44.5	152.4	145.0	M24	M16 x 2.00	OR^-2-237	10.85 (4.92)	2000 (140)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

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

Ordering Example: TP07-34-250-SS-V

* Insert Material _____
 ^ Insert O-Ring Type _____

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

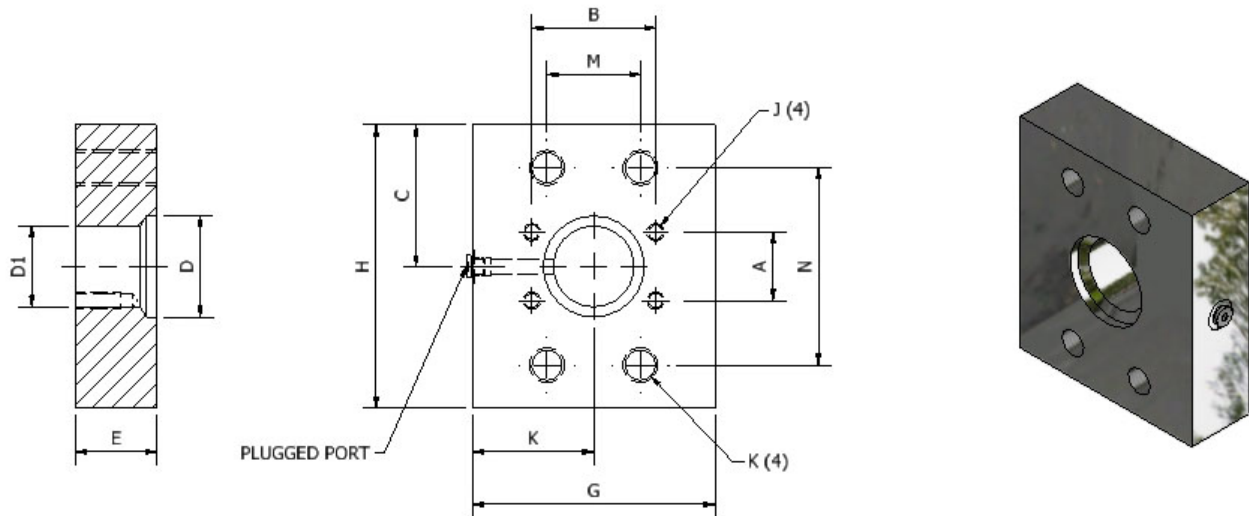
ISO 6164, 400 bar F10° Flare

Clamp Supports - Heavy Series

Valves, Ball and Check

SAE 3000 PSI Transition Plate Reducer

SAE J518 Code 62/Code 61 (ISO 6162-2/6162-1) 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 SAE 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	1.50	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	1.76	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 (ISO 6162-2 x ISO 6162-1)	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 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)
1-1/2" 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	M20 x 2.50	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	M20 x 2.50	M12 x 1.75	8.93 (4.05)	4000 (280)

*** Materials:**

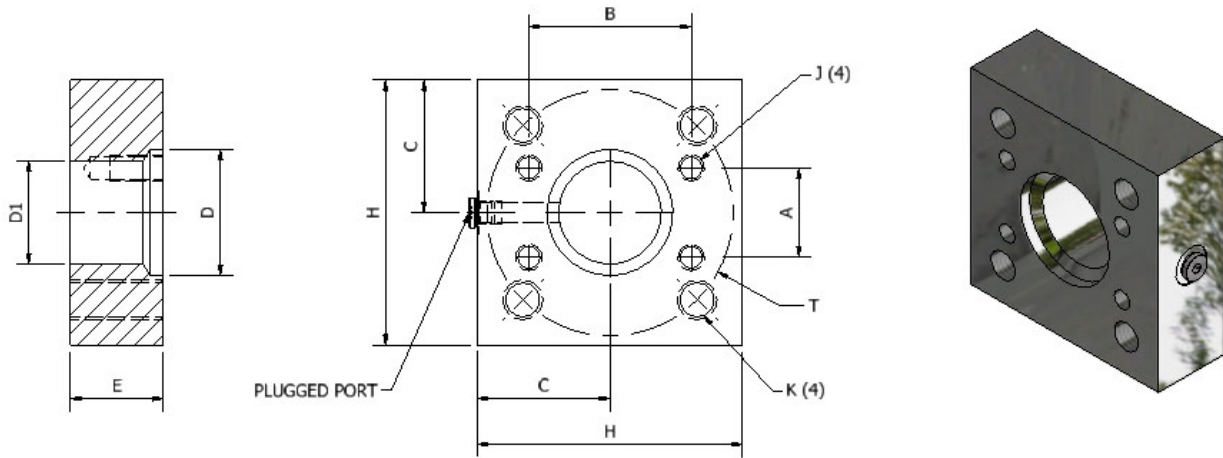
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

Ordering Example: TPR6-34-200x125-SS

* Insert Material _____

SAE 3000 PSI Transition Plate Reducer

ISO 6164/SAE Code 61 (ISO6164/6162-1) Flange Union Style



TPR7-34 - Transition Plate Reducer Flat Face with Threaded Holes Complete With #4 SAE Port (Plugged), NPS

Size (ISO 6164 x SAE Code 61)	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"	TPR7-34-250x150-*	4.65	1.41	2.75	2.50	2.38	1.50	1.75	5.00	3/4"-10	1/2"-13	10.40 (4.72)	3000 (210)
2-1/2" x 2"	TPR7-34-250x200-*	4.65	1.69	3.06	2.50	2.38	1.94	1.75	5.00	3/4"-10	1/2"-13	10.30 (4.67)	3000 (210)
3" x 2"	TPR7-34-300x200-*	5.71	1.69	3.06	3.00	2.88	1.94	2.00	6.00	1"-8	1/2"-13	16.50 (7.48)	3000 (210)
3" x 2-1/2"	TPR7-34-300x250-*	5.71	2.00	3.50	3.00	2.88	2.38	2.00	6.00	1"-8	1/2"-13	15.50 (7.03)	2500 (175)
4" x 2-1/2"	TPR7-34-400x250-*	6.89	2.00	3.50	3.50	3.50	2.38	2.00	7.00	1-1/8"-7	1/2"-13	22.70 (10.30)	2500 (175)
4" x 3"	TPR7-34-400x300-*	6.89	2.44	4.19	3.50	3.50	2.88	2.00	7.00	1-1/8"-7	5/8"-11	22.20 (10.07)	2000 (140)

TPRM7-34 - Transition Plate Reducer Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric

Size (ISO 6164 x ISO 6162-1)	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"	TPRM7-34-250x150-*	118.1	35.8	69.9	63.5	60.5	38.1	44.5	127.0	M20 x 2.50	M12 x 1.75	10.40 (4.72)	3000 (210)
2-1/2" x 2"	TPRM7-34-250x200-*	118.1	42.9	77.7	63.5	60.5	49.3	44.5	127.0	M20 x 2.50	M12 x 1.75	10.30 (4.67)	3000 (210)
3" x 2"	TPRM7-34-300x200-*	145.0	42.9	77.7	76.2	73.2	49.3	50.8	152.4	M24 x 3.00	M12 x 1.75	16.50 (7.48)	3000 (210)
3" x 2-1/2"	TPRM7-34-300x250-*	145.0	50.8	88.9	76.2	73.2	60.5	50.8	152.4	M24 x 3.00	M12 x 1.75	15.50 (7.03)	2500 (175)
4" x 2-1/2"	TPRM7-34-400x250-*	175.0	50.8	88.9	88.9	88.9	60.5	50.8	177.8	M30 x 3.50	M12 x 1.75	22.70 (10.30)	2500 (175)
4" x 3"	TPRM7-34-400x300-*	175.0	62.0	106.4	88.9	88.9	73.2	50.8	177.8	M30 x 3.50	M16 x 2.00	22.20 (10.07)	2000 (140)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

Ordering Example: TPR7-34-250x150-SS

* Insert Material _____

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

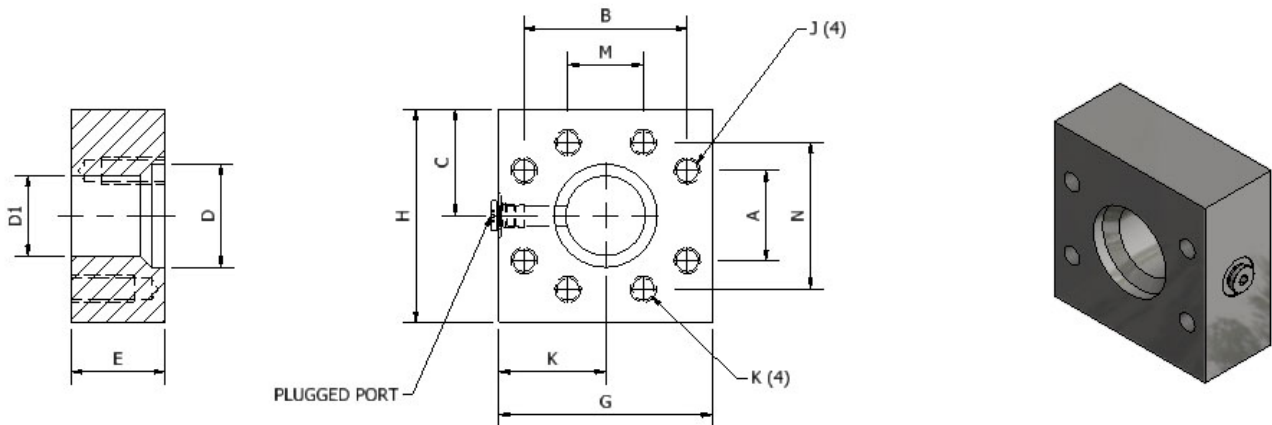
ISO 6164, 400 bar F10° Flare

Clamp Supports - Heavy Series

Valves, Ball and Check

SAE 3000 PSI Transition Plate Reducer - NPS

SAE J518 Code 61 (ISO 6162-1) Flange Style



TPR34 - Transition Plate Reducer Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size	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"	TPR34-075x050-*	0.69	1.50	1.69	0.75	0.50	1.00	3.00	3.00	1.50	0.88	1.88	3/8"-16	5/16"-18	2.50 (1.59)	5000 (350)
1" x 1/2"	TPR34-100x050-*	0.69	1.50	1.50	0.94	0.50	1.50	3.00	3.00	1.50	1.03	2.06	3/8"-16	5/16"-18	3.44 (1.56)	5000 (350)
1" x 3/4"	TPR34-100x075-*	0.88	1.88	1.50	0.94	0.75	1.50	3.00	3.00	1.50	1.03	2.06	3/8"-16	3/8"-16	3.30 (1.50)	5000 (350)
1-1/4" x 3/4"	TPR34-125x075-*	0.88	1.88	1.50	1.25	0.75	1.50	3.00	3.00	1.50	1.19	2.31	7/16"-14	3/8"-16	3.20 (1.45)	5000 (350)
1-1/4" x 1"	TPR34-125x100-*	1.03	2.06	1.50	1.25	0.94	1.25	3.00	3.00	1.50	1.19	2.31	7/16"-14	3/8"-16	2.60 (1.18)	5000 (350)
1-1/2" x 1"	TPR34-150x100-*	1.03	2.06	2.00	1.50	0.94	1.50	3.00	4.00	1.50	1.41	2.75	1/2"-13	3/8"-16	4.26 (1.93)	5000 (350)
1-1/2" x 1-1/4"	TPR34-150x125-*	1.19	2.31	2.00	1.50	1.25	1.50	3.00	4.00	1.50	1.41	2.75	1/2"-13	7/16"-14	4.20 (1.91)	4000 (280)
2" x 1-1/4"	TPR34-200x125-*	1.19	2.31	2.00	1.94	1.25	1.75	3.00	4.00	1.50	1.69	3.06	1/2"-13	7/16"-14	4.70 (2.13)	4000 (280)
2" x 1-1/2"	TPR34-200x150-*	1.41	2.75	2.00	1.94	1.50	1.75	4.00	4.00	2.00	1.69	3.06	1/2"-13	1/2"-13	6.40 (2.91)	4000 (280)
2-1/2" x 1-1/2"	TPR34-250x150-*	1.41	2.75	2.50	2.38	1.50	2.00	4.00	5.00	2.00	2.00	3.50	1/2"-13	1/2"-13	8.90 (4.04)	4000 (280)
2-1/2" x 2"	TPR34-250x200-*	1.69	3.06	2.50	2.38	1.94	1.75	4.00	5.00	2.00	2.00	3.50	1/2"-13	1/2"-13	7.65 (3.47)	4000 (280)
3" x 2"	TPR34-300x200-*	1.69	3.06	3.00	2.88	1.94	2.00	4.00	6.00	2.00	2.44	4.19	5/8"-11	1/2"-13	10.60 (4.81)	4000 (280)
3" x 2-1/2"	TPR34-300x250-*	2.00	3.50	3.00	2.88	2.38	1.75	4.50	6.00	2.25	2.44	4.19	5/8"-11	1/2"-13	10.10 (4.58)	3000 (210)

*** Materials:**

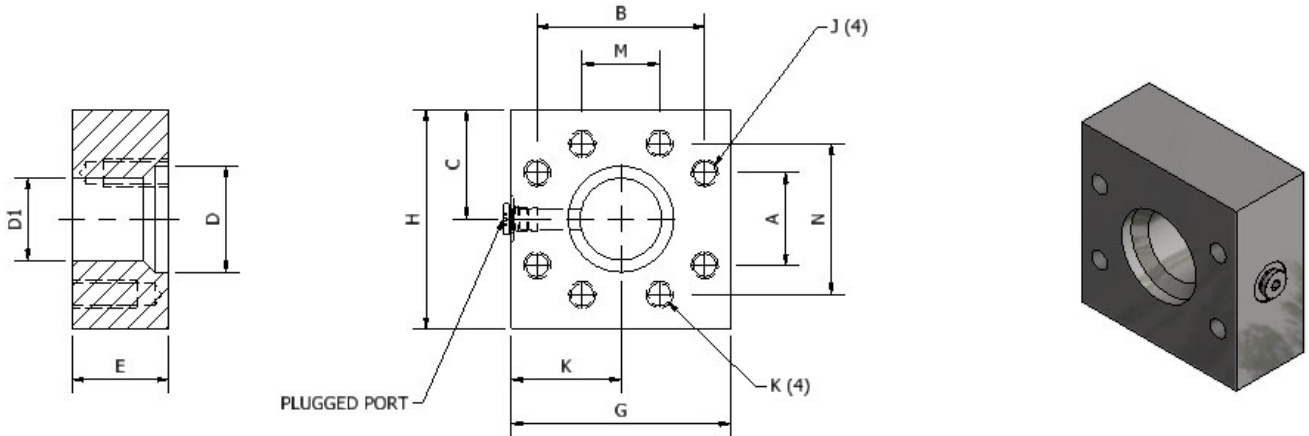
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

Ordering Example: TPR34-200x125-SS

* Insert Material _____

SAE 3000 PSI Transition Plate Reducer - Metric

SAE J518 Code 61 (ISO 6162-1) Flange Style



TPRM34 - Transition Plate Reducer Flat Face with Threaded Holes Complete with G1/8 Port (Plugged), Metric

Size	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"	TPRM34-075x050-*	17.5	38.1	42.9	19.1	12.7	25.4	76.2	76.2	38.1	22.4	47.8	M10 x 1.50	M8 x 1.25	3.50 (1.59)	5000 (350)
1" x 1/2"	TPRM34-100x050-*	17.5	38.1	38.1	23.9	12.7	38.1	76.2	76.2	38.1	26.2	52.3	M10 x 1.50	M8 x 1.25	3.44 (1.56)	5000 (350)
1" x 3/4"	TPRM34-100x075-*	22.4	47.8	38.1	23.9	19.1	38.1	76.2	76.2	38.1	26.2	52.3	M10 x 1.50	M10 x 1.50	3.30 (1.50)	5000 (350)
1-1/4" x 3/4"	TPRM34-125x075-*	22.4	47.8	38.1	31.8	19.1	38.1	76.2	76.2	38.1	30.2	58.7	M10 x 1.50	M10 x 1.50	3.20 (1.45)	5000 (350)
1-1/4" x 1"	TPRM34-125x100-*	26.2	52.3	38.1	31.8	23.9	31.8	76.2	76.2	38.1	30.2	58.7	M10 x 1.50	M10 x 1.50	2.60 (1.18)	5000 (350)
1-1/2" x 1"	TPRM34-150x100-*	26.2	52.3	50.8	38.1	23.9	38.1	76.2	101.6	38.1	35.8	69.9	M12 x 1.75	M10 x 1.50	4.26 (1.93)	5000 (350)
1-1/2" x 1-1/4"	TPRM34-150x125-*	30.2	58.7	50.8	38.1	31.8	38.1	76.2	101.6	38.1	35.8	69.9	M12 x 1.75	M10 x 1.50	4.20 (1.91)	4000 (280)
2" x 1-1/4"	TPRM34-200x125-*	30.2	58.7	50.8	49.3	31.8	44.5	76.2	101.6	38.1	42.9	77.7	M12 x 1.75	M10 x 1.50	4.70 (2.13)	4000 (280)
2" x 1-1/2"	TPRM34-200x150-*	35.8	69.9	50.8	49.3	38.1	44.5	101.6	101.6	50.8	42.9	77.7	M12 x 1.75	M12 x 1.75	6.40 (2.91)	4000 (280)
2-1/2" x 1-1/2"	TPRM34-250x150-*	35.8	69.9	63.5	60.5	38.1	50.8	101.6	127.0	50.8	50.8	88.9	M12 x 1.75	M12 x 1.75	8.90 (4.04)	4000 (280)
2-1/2" x 2"	TPRM34-250x200-*	42.9	77.7	63.5	60.5	49.3	44.5	101.6	127.0	50.8	50.8	88.9	M12 x 1.75	M12 x 1.75	7.65 (3.47)	4000 (280)
3" x 2"	TPRM34-300x200-*	42.9	77.7	76.2	73.2	49.3	50.8	101.6	152.4	50.8	62.0	106.4	M16 x 2.00	M12 x 1.75	10.60 (4.81)	4000 (280)
3" x 2-1/2"	TPRM34-300x250-*	50.8	88.9	76.2	73.2	60.5	44.5	114.3	152.4	57.2	62.0	106.4	M16 x 2.00	M12 x 1.75	10.10 (4.48)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

Ordering Example: TPRM34-200x125-SS

* Insert Material _____

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

ISO 6164, 400 bar F10° Flare

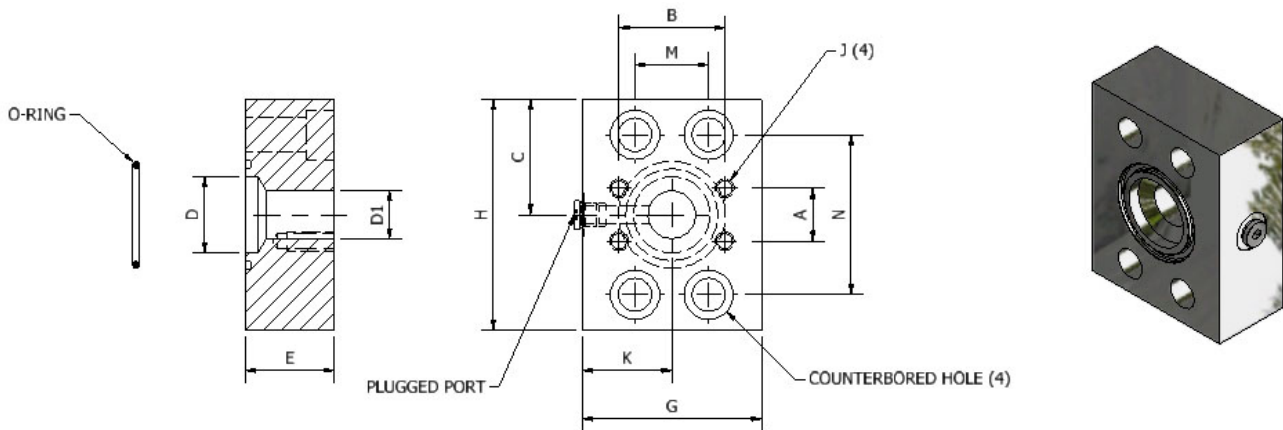
Clamp Supports - Heavy Series

Valves, Ball and Check

G71

SAE 3000 PSI Transition Plate Reducer

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



TPRO6-34 - Transition Plate Reducer O-Ring Face with Counterbored Holes Complete with Buna O-Ring and #4 SAE Port (Plugged), NPS

Size (SAE Code 62 x SAE Code 61)	Reducer Part Number	Dimensions (in)											C'T Bore Bolt	Thread UNC-2B	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	G	H	K	M	N					
3/4" x 1/2"	TPRO6-34-075x050-*^	0.69	1.50	1.38	0.75	0.50	1.50	3.00	2.75	1.25	0.94	2.00	3/8"-16	5/16"-18	OR^2-214	2.99 (1.36)	5000 (350)
1" x 1/2"	TPRO6-34-100x050-*^	0.69	1.50	1.50	0.94	0.50	1.50	3.00	3.00	1.75	1.09	2.25	7/16"-14	5/16"-18	OR^2-219	3.16 (1.43)	5000 (350)
1" x 3/4"	TPRO6-34-100x075-*^	0.88	1.88	1.50	0.94	0.75	1.50	3.00	3.00	1.75	1.09	2.25	7/16"-14	3/8"-16	OR^2-219	3.04 (1.38)	5000 (350)
1-1/4" x 3/4"	TPRO6-34-125x075-*^	0.88	1.88	1.75	1.25	0.75	1.50	3.00	3.50	1.75	1.25	2.62	1/2"-13	3/8"-16	OR^2-222	3.40 (1.54)	5000 (350)
1-1/4" x 1"	TPRO6-34-125x100-*^	1.03	2.06	1.75	1.25	0.94	1.50	3.00	3.50	1.75	1.25	2.62	1/2"-13	3/8"-16	OR^2-222	4.03 (1.83)	5000 (350)
1-1/2" x 1"	TPRO6-34-150x100-*^	1.03	2.06	2.25	1.50	0.94	1.75	3.50	4.50	2.00	1.44	3.13	5/8"-11	3/8"-16	OR^2-225	6.10 (2.77)	5000 (350)
1-1/2" x 1-1/4"	TPRO6-34-150x125-*^	1.19	2.31	2.25	1.50	1.25	1.75	3.00	4.50	1.50	1.44	3.13	5/8"-11	7/16"-14	OR^2-225	4.70 (2.13)	4000 (280)
2" x 1-1/4"	TPRO6-34-200x125-*^	1.19	2.31	2.63	1.94	1.25	1.75	4.00	5.25	2.00	1.75	3.81	3/4"-10	7/16"-14	OR^2-228	7.60 (3.45)	4000 (280)
2" x 1-1/2"	TPRO6-34-200x150-*^	1.41	2.75	2.63	1.94	1.50	1.75	4.00	5.25	2.00	1.75	3.81	3/4"-10	1/2"-13	OR^2-228	7.30 (3.31)	4000 (280)

TPROM6-34 - Transition Plate Reducer O-Ring Face with Counterbored Holes Complete with Buna O-Ring and G 1/8 Port (Plugged), Metric

Size (ISO 6162-2 x ISO 6162-1)	Reducer Part Number	Dimensions (mm)											C'T Bore Bolt	Thread	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	G	H	K	M	N					
3/4" x 1/2"	TPROM6-34-075x050-*^	17.5	38.1	35.1	19.1	12.7	38.1	76.2	69.9	44.5	23.9	50.8	M10	M8 x 1.25	OR^2-214	2.99 (1.36)	5000 (350)
1" x 1/2"	TPROM6-34-100x050-*^	17.5	38.1	38.1	23.9	12.7	38.1	76.2	76.2	44.5	27.7	57.2	M12	M8 x 1.25	OR^2-219	3.16 (1.43)	5000 (350)
1" x 3/4"	TPROM6-34-100x075-*^	22.4	47.8	38.1	23.9	19.1	38.1	76.2	76.2	44.5	27.7	57.2	M12	M10 x 1.50	OR^2-219	3.04 (1.38)	5000 (350)
1-1/4" x 3/4"	TPROM6-34-125x075-*^	22.4	47.8	44.5	31.8	19.1	38.1	76.2	88.9	44.5	31.8	66.8	M12	M10 x 1.50	OR^2-222	3.40 (1.54)	5000 (350)
1-1/4" x 1"	TPROM6-34-125x100-*^	26.2	52.3	44.5	31.8	23.9	25.4	76.2	88.9	38.1	31.8	66.8	M12	M10 x 1.50	OR^2-222	4.03 (1.83)	5000 (350)
1-1/2" x 1"	TPROM6-34-150x100-*^	26.2	52.3	57.2	38.1	23.9	44.5	88.9	114.3	50.8	36.6	79.5	M16	M10 x 1.50	OR^2-225	6.10 (2.77)	5000 (350)
1-1/2" x 1-1/4"	TPROM6-34-150x125-*^	30.2	58.7	57.2	38.1	31.8	44.5	76.2	114.3	38.1	36.6	79.5	M16	M10 x 1.50	OR^2-225	4.70 (2.13)	4000 (280)
2" x 1-1/4"	TPROM6-34-200x125-*^	30.2	58.7	66.8	49.3	31.8	44.5	101.6	133.4	50.8	44.5	96.8	M20	M10 x 1.50	OR^2-228	7.60 (3.45)	4000 (280)
2" x 1-1/2"	TPROM6-34-200x150-*^	35.8	69.9	66.8	49.3	38.1	44.5	101.6	133.4	50.8	44.5	96.8	M20	M12 x 1.75	OR^2-228	7.30 (3.31)	4000 (280)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: TPRO6-34-200x125-SS-V

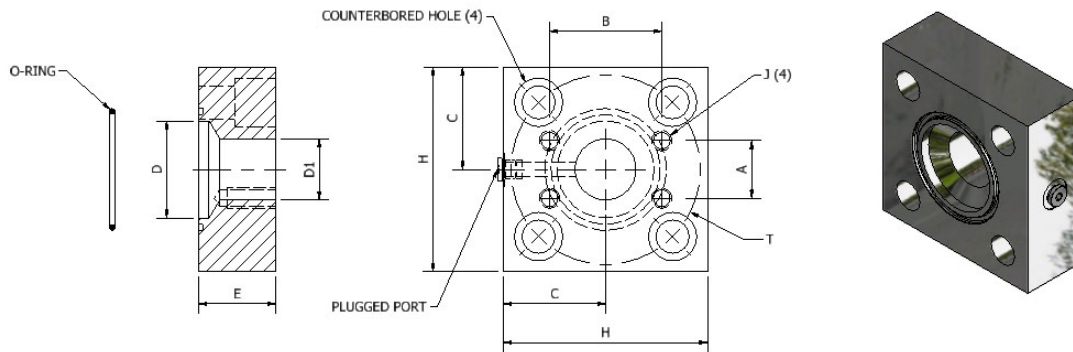
* Insert Material _____

^ Insert O-Ring Type _____

3D step models available upon request

SAE 3000 PSI Transition Plate Reducer

ISO 6164/SAE Code 61 (ISO6164/6162-1) Flange Manifold Mount Style



TPRO7-34 - 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 61)	Reducer Part Number	Dimensions (in)								C'T Bore Bolt	Thread 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"	TPRO7-34-250x150-*^-^	4.65	1.41	2.75	2.50	2.38	1.50	1.75	5.00	3/4"-10	1/2"-13	OR^-2-232	9.20 (4.17)	3000 (210)
2-1/2" x 2"	TPRO7-34-250x200-*^-^	4.65	1.69	3.06	2.75	2.38	1.94	1.75	5.00	3/4"-10	1/2"-13	OR^-2-232	9.90 (4.49)	3000 (210)
3" x 2"	TPRO7-34-300x200-*^-^	5.71	1.69	3.06	3.00	2.88	1.94	2.00	6.00	1"-8	1/2"-13	OR^-2-237	14.20 (6.44)	3000 (210)
3" x 2-1/2"	TPRO7-34-300x250-*^-^	5.71	2.00	3.50	3.00	2.88	2.38	2.00	6.00	1"-8	1/2"-13	OR^-2-237	15.40 (6.99)	2500 (175)
4" x 2-1/2"	TPRO7-34-400x250-*^-^	6.89	2.00	3.50	3.50	3.50	2.38	2.00	7.00	1-1/8"-7	1/2"-13	OR^-2-241	22.20 (10.07)	2500 (175)
4" x 3"	TPRO7-34-400x300-*^-^	6.89	2.44	4.19	3.75	3.50	2.88	2.00	7.00	1-1/8"-7	5/8"-11	OR^-2-241	21.70 (9.84)	2000 (140)

TPROM7-34 - Transition Plate Reducer O-Ring Face with Counterbored Holes Complete with Buna O-Ring and G1/8 Port (Plugged), Metric

Size (ISO 6164 x 6162-1)	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"	TPROM7-34-250x150-*^-^	118.1	35.8	69.9	63.5	60.5	38.1	44.5	127.0	M20	M12 x 1.75	OR^-2-232	9.20 (4.17)	3000 (210)
2-1/2" x 2"	TPROM7-34-250x200-*^-^	118.1	42.9	77.7	69.9	60.5	49.3	44.5	127.0	M20	M12 x 1.75	OR^-2-232	9.90 (4.49)	3000 (210)
3" x 2"	TPROM7-34-300x200-*^-^	145.0	42.9	77.7	76.2	73.2	49.3	50.8	152.4	M24	M12 x 1.75	OR^-2-237	14.20 (6.44)	3000 (210)
3" x 2-1/2"	TPROM7-34-300x250-*^-^	145.0	50.8	88.9	76.2	73.2	60.5	50.8	152.4	M24	M12 x 1.75	OR^-2-237	15.40 (6.99)	2500 (175)
4" x 2-1/2"	TPROM7-34-400x250-*^-^	175.0	50.8	88.9	88.9	88.9	60.5	50.8	177.8	M30	M12 x 1.75	OR^-2-241	22.20 (10.07)	2500 (175)
4" x 3"	TPROM7-34-400x300-*^-^	175.0	62.0	106.4	95.3	88.9	73.2	50.8	177.8	M30	M16 x 2.00	OR^-2-241	21.70 (9.84)	2000 (140)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

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

Ordering Example: TPRO7-34-250x150-SS-V

* Insert Material _____
 ^ Insert O-Ring Type _____

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

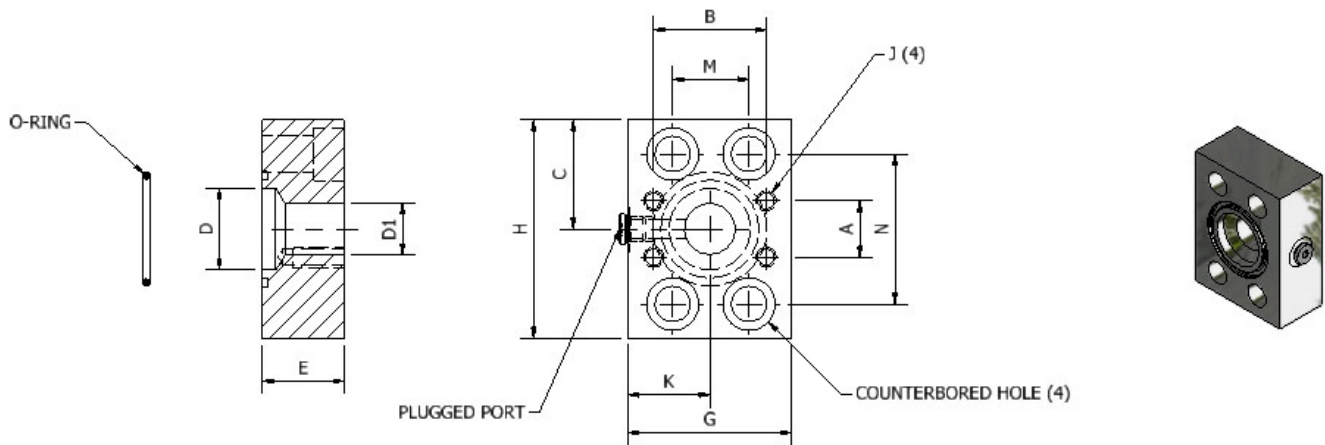
ISO 6164, 400 bar F10° Flare

Clamp Supports - Heavy Series

Valves, Ball and Check

SAE 3000 PSI Transition Plate Reducer - NPS

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



TPRO34 - Transition Plate Reducer O-Ring Face with Counterbored Holes Complete with Buna O-Ring and #4 SAE Port (Plugged), NPS

Size	Reducer Part Number	Dimensions (in)											C'T Bore Bolt	Thread UNC-2B	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	G	H	K	M	N					
3/4" x 1/2"	TPRO34-075x050-*^-^	0.69	1.50	1.50	0.75	0.50	1.50	3.00	3.00	1.69	0.88	1.88	3/8"-16	5/16"-18	OR^-2-214	3.30 (1.50)	5000 (350)
1" x 1/2"	TPRO34-100x050-*^-^	0.69	1.50	1.50	0.94	0.50	1.50	3.00	3.00	1.69	1.03	2.06	3/8"-16	5/16"-18	OR^-2-219	3.20 (1.45)	5000 (350)
1" x 3/4"	TPRO34-100x075-*^-^	0.88	1.88	1.50	0.94	0.75	1.50	3.00	3.00	1.69	1.03	2.06	3/8"-16	3/8"-16	OR^-2-219	3.20 (1.45)	5000 (350)
1-1/4" x 3/4"	TPRO34-125x075-*^-^	0.88	1.88	1.63	1.25	0.75	1.50	3.00	3.25	1.69	1.19	2.31	7/16"-14	3/8"-16	OR^-2-222	3.30 (1.50)	5000 (350)
1-1/4" x 1"	TPRO34-125x100-*^-^	1.03	2.06	1.63	1.25	0.94	1.25	3.00	3.25	1.50	1.19	2.31	7/16"-14	3/8"-16	OR^-2-222	2.58 (1.17)	5000 (350)
1-1/2" x 1"	TPRO34-150x100-*^-^	1.03	2.06	2.00	1.50	0.94	1.50	3.00	4.00	1.50	1.41	2.75	1/2"-13	3/8"-16	OR^-2-225	4.00 (1.81)	5000 (350)
1-1/2" x 1-1/4"	TPRO34-150x125-*^-^	1.19	2.31	2.00	1.50	1.25	1.50	3.00	4.00	1.50	1.41	2.75	1/2"-13	7/16"-14	OR^-2-225	3.70 (1.68)	4000 (280)
2" x 1-1/4"	TPRO34-200x125-*^-^	1.19	2.31	2.00	1.94	1.25	1.75	3.00	4.00	1.50	1.69	3.06	1/2"-13	7/16"-14	OR^-2-228	4.20 (1.91)	4000 (280)
2" x 1-1/2"	TPRO34-200x150-*^-^	1.41	2.75	2.00	1.94	1.50	1.75	4.00	4.00	2.00	1.69	3.06	1/2"-13	1/2"-13	OR^-2-228	5.90 (2.68)	4000 (280)
2-1/2" x 1-1/2"	TPRO34-250x150-*^-^	1.41	2.75	2.50	2.38	1.50	2.00	4.00	5.00	2.00	2.00	3.50	1/2"-13	1/2"-13	OR^-2-232	8.80 (3.99)	4000 (280)
2-1/2" x 2"	TPRO34-250x200-*^-^	1.69	3.06	2.50	2.38	1.94	1.75	4.00	5.00	2.00	2.00	3.50	1/2"-13	1/2"-13	OR^-2-232	7.30 (3.31)	4000 (280)
3" x 2"	TPRO34-300x200-*^-^	1.69	3.06	3.00	2.88	1.94	2.00	4.00	6.00	2.00	2.44	4.19	5/8"-11	1/2"-13	OR^-2-237	9.80 (4.45)	4000 (280)
3" x 2-1/2"	TPRO34-300x250-*^-^	2.00	3.50	3.00	2.88	2.38	1.75	4.50	6.00	2.25	2.44	4.19	5/8"-11	1/2"-13	OR^-2-237	9.50 (4.31)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

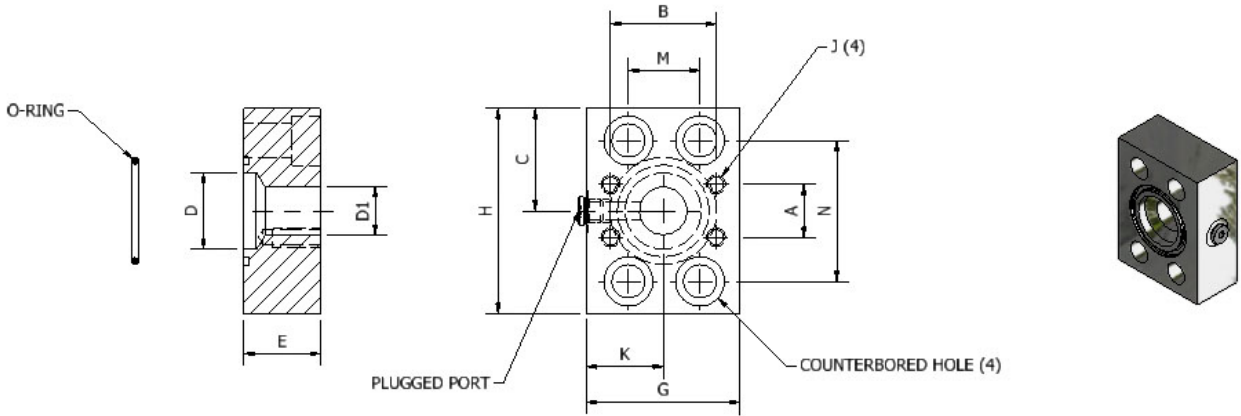
Standard, No Designation = Buna Nitrile.
 V = Viton.

Ordering Example: TPRO34-200x150-SS-V

* Insert Material _____
 ^ Insert O-Ring Type _____

SAE 3000 PSI Transition Plate Reducer - Metric

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



TPROM34 - Transition Plate Reducer O-Ring Face with Counterbored Holes Complete with Buna O-Ring and G1/8 (Plugged), Metric

Size	Reducer Part Number	Dimensions (mm)											C'T Bore Bolt	Thread	O-Ring (Buna) Part Number	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	D1	E	G	H	K	M	N					
3/4" x 1/2"	TPROM34-075x050-*^-^	17.5	38.1	38.1	19.1	12.7	38.1	76.2	76.2	42.9	22.4	47.8	M10	M8 x 1.25	OR^-2-214	3.20 (1.45)	5000 (350)
1" x 1/2"	TPROM34-100x050-*^-^	17.5	38.1	38.1	23.9	12.7	38.1	76.2	76.2	38.1	26.2	52.3	M10	M8 x 1.25	OR^-2-219	3.20 (1.45)	5000 (350)
1" x 3/4"	TPROM34-100x075-*^-^	22.4	47.8	38.1	23.9	19.1	38.1	76.2	76.2	38.1	26.2	52.3	M10	M10 x 1.50	OR^-2-219	3.30 (1.50)	5000 (350)
1-1/4" x 3/4"	TPROM34-125x075-*^-^	22.4	47.8	41.4	31.8	19.1	38.1	76.2	82.6	38.1	30.2	58.7	M10	M10 x 1.50	OR^-2-222	2.58 (1.17)	5000 (350)
1-1/4" x 1"	TPROM34-125x100-*^-^	26.2	52.3	41.4	31.8	23.9	31.8	76.2	82.6	38.1	30.2	58.7	M10	M10 x 1.50	OR^-2-222	4.00 (1.81)	5000 (350)
1-1/2" x 1"	TPROM34-150x100-*^-^	26.2	52.3	50.8	38.1	23.9	38.1	76.2	101.6	38.1	35.8	69.9	M12	M10 x 1.50	OR^-2-225	3.70 (1.68)	5000 (350)
1-1/2" x 1-1/4"	TPROM34-150x125-*^-^	30.2	58.7	50.8	38.1	31.8	38.1	76.2	101.6	38.1	35.8	69.9	M12	M10 x 1.50	OR^-2-225	4.20 (1.91)	4000 (280)
2" x 1-1/4"	TPROM34-200x125-*^-^	30.2	58.7	50.8	49.3	31.8	44.5	76.2	101.6	38.1	42.9	77.7	M12	M10 x 1.50	OR^-2-228	5.90 (2.68)	4000 (280)
2" x 1-1/2"	TPROM34-200x150-*^-^	35.8	69.9	50.8	49.3	38.1	44.5	101.6	101.6	50.8	42.9	77.7	M12	M12 x 1.75	OR^-2-228	8.80 (3.99)	4000 (280)
2-1/2" x 1-1/2"	TPROM34-250x150-*^-^	35.8	69.9	63.5	60.5	38.1	50.8	101.6	127.0	50.8	50.8	88.9	M12	M12 x 1.75	OR^-2-232	7.30 (3.31)	4000 (280)
2-1/2" x 2"	TPROM34-250x200-*^-^	42.9	77.7	63.5	60.5	49.3	44.5	101.6	127.0	50.8	50.8	88.9	M12	M12 x 1.75	OR^-2-232	9.80 (4.45)	4000 (280)
3" x 2"	TPROM34-300x200-*^-^	42.9	77.7	76.2	73.2	49.3	50.8	101.6	152.4	50.8	62.0	106.4	M16	M12 x 1.75	OR^-2-237	9.50 (4.31)	4000 (280)
3" x 2-1/2"	TPROM34-300x250-*^-^	50.8	88.9	76.2	73.2	60.5	44.5	114.3	152.4	57.2	62.0	106.4	M16	M12 x 1.75	OR^-2-237	3.30 (1.50)	3000 (210)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

^ O-Ring Type:

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

Ordering Example: TPROM34-200x150-SS-V

* Insert Material _____

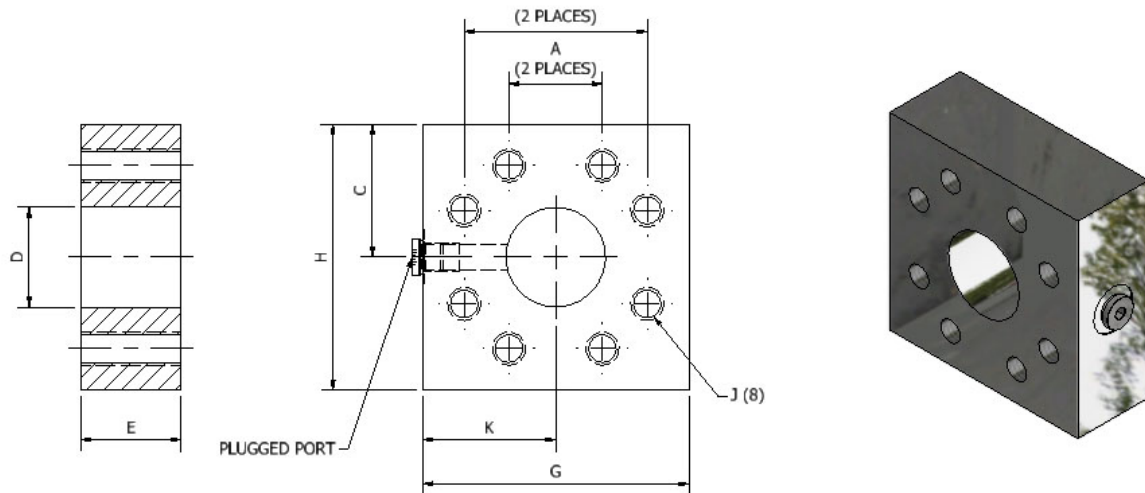
^ Insert O-Ring Type _____

3D step models available upon request

Introduction
 Technical Data
 Pipe Selection Guide
 16 bar, 90° Flare
 ANSI 150#, 300# Flare
 SAE 1000, 70 bar
 SAE 3000, 210 bar
 SAE 6000, 420 bar
 SAE 10000, 690 bar
 ISO 6164, 400 bar
 ISO 6164, 400 bar F10° Flare
 Clamp Supports - Heavy Series
 Valves, Ball and Check
 G75

SAE 3000 PSI Adapter Plate

SAE J518 Code 61 (ISO 6162-1) Flange Style



AP34 - Adapter Plate Flat Face with Threaded Holes Complete with #4 SAE Port (Plugged), NPS

Size	Adapter Plate Part Number	Dimensions (in)								Thread UNC-2B	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	G	H	K			
1/2"	AP34-050-*	0.69	1.50	1.25	0.50	1.00	2.75	2.50	1.63	5/16"-18	1.70 (0.77)	5000 (350)
3/4"	AP34-075-*	0.88	1.88	1.50	0.75	1.00	3.00	3.00	1.69	3/8"-16	2.20 (1.00)	5000 (350)
1"	AP34-100-*	1.03	2.06	1.50	0.94	1.00	3.00	3.00	1.50	3/8"-16	2.10 (0.95)	5000 (350)
1-1/4"	AP34-125-*	1.19	2.31	1.50	1.25	1.25	3.00	3.00	1.50	7/16"-14	2.40 (1.09)	4000 (280)
1-1/2"	AP34-150-*	1.41	2.75	2.00	1.50	1.50	4.00	4.00	2.00	1/2"-13	5.40 (2.45)	4000 (280)
2"	AP34-200-*	1.69	3.06	2.00	1.94	1.50	4.00	4.00	2.00	1/2"-13	4.90 (2.22)	4000 (280)

APM34 - Adapter Plate Flat Face with Threaded Holes Complete with G 1/8 Port (Plugged), Metric

Size	Adapter Plate Part Number	Dimensions (mm)								Thread	WT lbs (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	G	H	K			
1/2"	APM34-050-*	17.5	38.1	31.8	12.7	25.4	69.9	63.5	41.4	M8 x 1.25	1.70 (0.77)	5000 (350)
3/4"	APM34-075-*	22.4	47.8	38.1	19.1	25.4	76.2	76.2	42.9	M10 x 1.50	2.20 (1.00)	5000 (350)
1"	APM34-100-*	26.2	52.3	38.1	23.9	25.4	76.2	76.2	38.1	M10 x 1.50	2.10 (0.95)	5000 (350)
1-1/4"	APM34-125-*	30.2	58.7	38.1	31.8	31.8	76.2	76.2	38.1	M10 x 1.50	2.40 (1.09)	4000 (280)
1-1/2"	APM34-150-*	35.8	69.9	50.8	38.1	38.1	101.6	101.6	50.8	M12 x 1.75	5.40 (2.45)	4000 (280)
2"	APM34-200-*	42.9	77.7	50.8	49.3	38.1	101.6	101.6	50.8	M12 x 1.75	4.90 (2.22)	4000 (280)

*** Materials:**

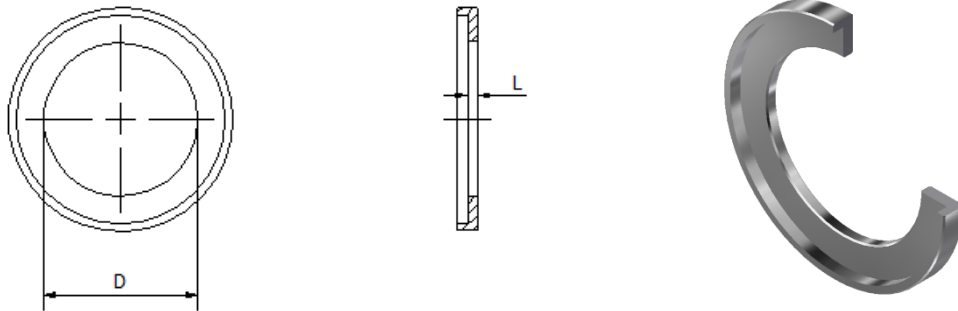
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

Ordering Example: AP34-200-SS

* Insert Material

SAE 3000 PSI O-Ring Connector Plate

SAE J518 Code 61 (ISO 6162-1)



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)	0.07 (0.03)
1"	OCP-100-*	0.94 (23.9)	0.13 (3.3)	0.08 (0.04)
1-1/4"	OCP-125-*	1.20 (30.5)	0.13 (3.3)	0.09 (0.04)
1-1/2"	OCP-150-*	1.50 (38.1)	0.13 (3.3)	0.17 (0.08)
2"	OCP-200-*	1.94 (49.3)	0.13 (3.3)	0.15 (0.07)
2-1/2"	OCP-250-*	2.36 (59.9)	0.13 (3.3)	0.17 (0.08)
3"	OCP-300-*	2.88 (73.2)	0.13 (3.3)	0.25 (0.11)

*** Materials:**

Standard, No Designation = Carbon Steel,
Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

Ordering Example: OCP-200-SS

* Insert Material

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

ISO 6164, 400 bar F10° Flare

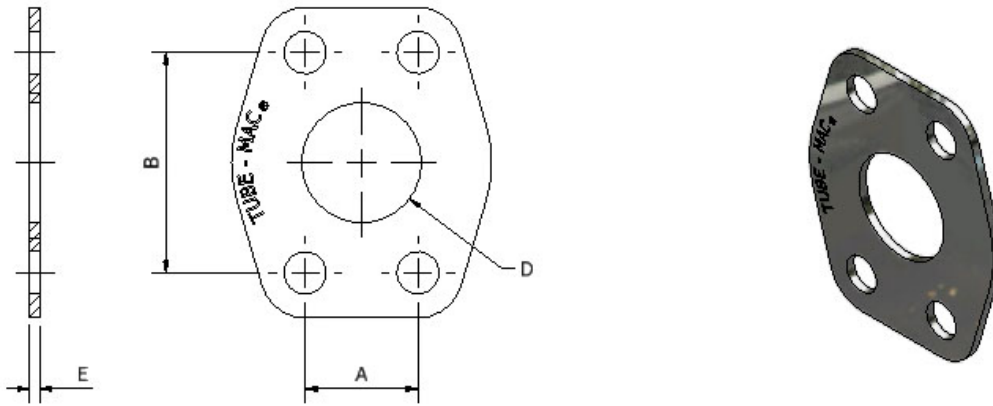
Clamp Supports - Heavy Series

Valves, Ball and Check



SAE 3000 PSI Connector Plate

SAE J518 Code 61 (ISO 6162-1)



CP - Connector Plate						
Size	Part Number	Dimensions in (mm)				WT lbs (kg)
		A	B	D	E	
1/2"	CP34-050	0.69 (17.53)	1.50 (38.10)	0.50 (12.70)	0.12 (3.05)	0.09 (0.04)
3/4"	CP34-075	0.88 (22.35)	1.88 (47.75)	0.75 (19.05)	0.12 (3.05)	0.12 (0.05)
1"	CP34-100	1.03 (26.16)	2.06 (52.32)	0.94 (23.88)	0.12 (3.05)	0.14 (0.06)
1-1/4"	CP34-125	1.19 (30.23)	2.31 (58.67)	1.25 (31.75)	0.12 (3.05)	0.20 (0.09)
1-1/2"	CP34-150	1.41 (35.81)	2.75 (69.85)	1.50 (38.10)	0.12 (3.05)	0.28 (0.13)
2"	CP34-200	1.69 (42.93)	3.06 (77.72)	1.94 (49.28)	0.12 (3.05)	0.33 (0.15)

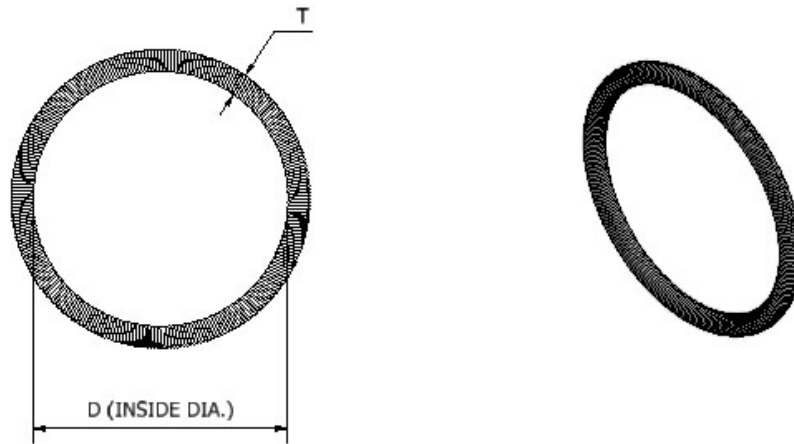
*** Materials:**

Stainless Steel, Type 316.

Not available in Carbon Steel.

SAE 3000 PSI Retain Ring

SAE J518 Code 61 (ISO 6162-1)



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 (4.0)	0.01 (0.005)
3/4"	R-075	1.24 (31.5)	0.16 (4.0)	0.02 (0.009)
1"	R-100	1.32 (33.5)	0.20 (5.0)	0.03 (0.014)
1-1/4"	R-125	1.59 (40.4)	0.20 (5.0)	0.04 (0.018)
1-1/2"	R-150	1.99 (50.5)	0.20 (5.0)	0.05 (0.023)
2"	R-200	2.38 (60.5)	0.20 (5.0)	0.06 (0.027)
2-1/2"	R-250	2.93 (74.4)	0.20 (5.0)	0.07 (0.032)
3"	R-300	3.56 (90.4)	0.24 (6.0)	0.12 (0.054)

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)

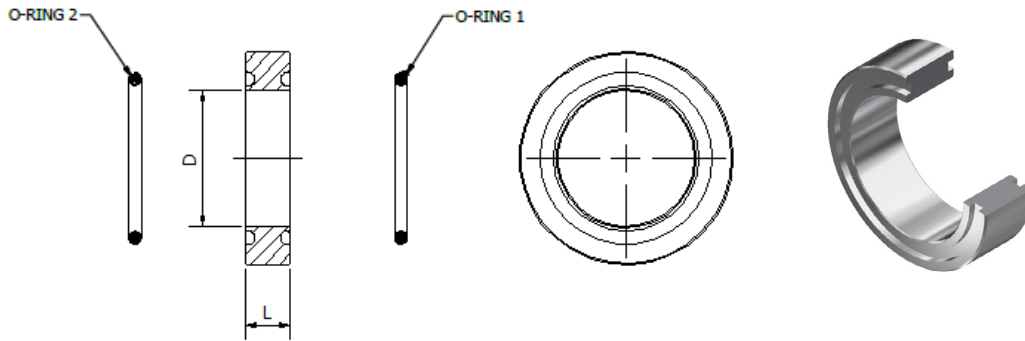
*** Materials:**

Stainless Steel - AISI 316 Spring Temper

3D step models available upon request

SAE 3000 PSI O-Ring Spacer for Retain Ring Pipe Flange Connection

SAE J518 Code 61 (ISO 6162-1)



OS – O-Ring Spacer for Retain Ring Pipe Flange Connection

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-*^-^	1.91 (48.5)	0.50 (12.7)	OR^-3-928	0.43 (0.20)
2-1/2"	OS-250-*^-^	2.36 (59.9)	1.00 (25.4)	OR^-2-232	1.17 (0.53)
3"	OS-300-*^-^	2.88 (73.2)	1.00 (25.4)	OR^-2-237	1.68 (0.77)

OSA – O-Ring Spacer for NPS Retain Ring Pipe Flange Connection

	Size	Part Number	Dimensions in (mm)		O-Rings 1&2 (Buna) Part Number	WT lbs (kg)
			D	L		
OSA-SCH160	1-1/2"	OSA-SCH160-150-*^-^	1.10 (27.19)	0.50 (12.7)	OR^-3-924	0.33 (0.15)
	2"	OSA-SCH160-200-*^-^	1.69 (42.9)	0.50 (12.7)	OR^-3-928	0.43 (0.20)
	2-1/2"	OSA-SCH160-250-*^-^	2.13 (54.1)	1.00 (25.4)	OR^-2-232	1.17 (0.53)
	3"	OSA-SCH160-300-*^-^	2.63 (66.8)	1.00 (25.4)	OR^-2-237	1.68 (0.77)
OSA-SCHXXS	1-1/2"	OSA-SCHXXS-150-*^-^	1.10 (27.9)	0.50 (12.7)	OR^-3-924	0.33 (0.15)
	2"	OSA-SCHXXS-200-*^-^	1.50 (38.1)	0.50 (12.7)	OR^-3-928	0.43 (0.20)
	2-1/2"	OSA-SCHXXS-250-*^-^	1.78 (45.2)	1.00 (25.4)	OR^-2-232	1.17 (0.53)
	3"	OSA-SCHXXS-300-*^-^	2.30 (58.4)	1.00 (25.4)	OR^-2-237	1.68 (0.77)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

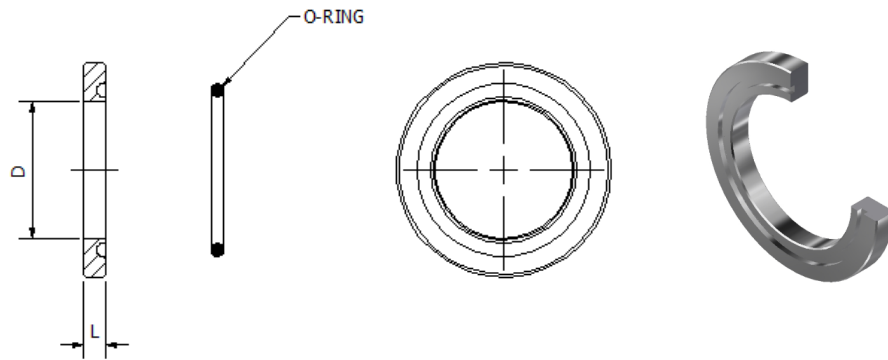
Ordering Example: OSA-SCH160-200-SS-V

* Insert Material

^ Insert O-Ring Type

SAE 3000 PSI O-Ring Spacer for Retain Ring Pipe to Hose End

SAE J518 Code 61 (ISO 6162-1)



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)
2-1/2"	OSH-250-*^-^	2.36 (59.9)	0.50 (12.7)	OR^-2-232	0.58 (0.26)
3"	OSH-300-*^-^	2.88 (73.2)	0.50 (12.7)	OR^-2-237	0.85 (0.39)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

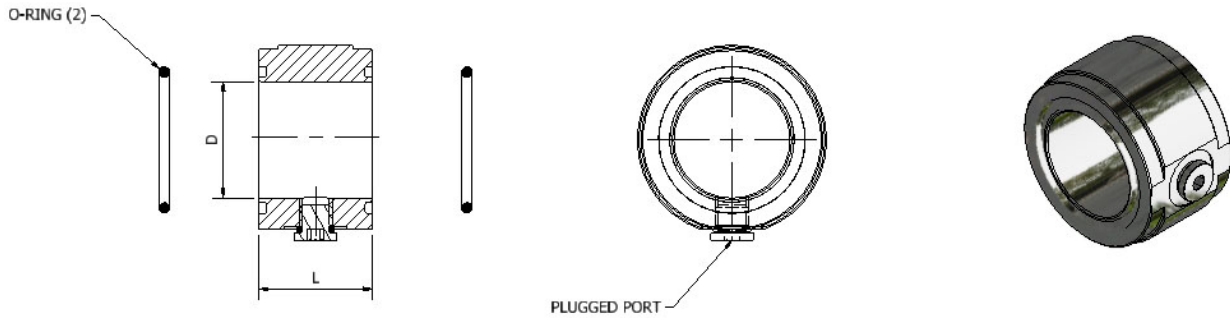
V = Viton.

Ordering Example: OSH-200-SS-V

* Insert Material _____
^ Insert O-Ring Type _____

SAE 3000 PSI O-Ring Spacer with Pilot Port

SAE J518 Code 61 (ISO 6162-1)



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)
2-1/2"	OSP-250-*^-^	2.36 (59.9)	1.50 (38.1)	OR^-2-232	1.98 (0.90)
3"	OSP-300-*^-^	2.88 (73.2)	1.50 (38.1)	OR^-2-237	2.50 (1.13)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 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)
2-1/2"	OSPM-250-*^-^	2.36 (59.9)	1.50 (38.1)	OR^-2-232	1.98 (0.90)
3"	OSPM-300-*^-^	2.88 (73.2)	1.50 (38.1)	OR^-2-237	2.50 (1.13)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
 SS = Stainless Steel, Type 316.

Ordering Example: OSPM-200-SS-V

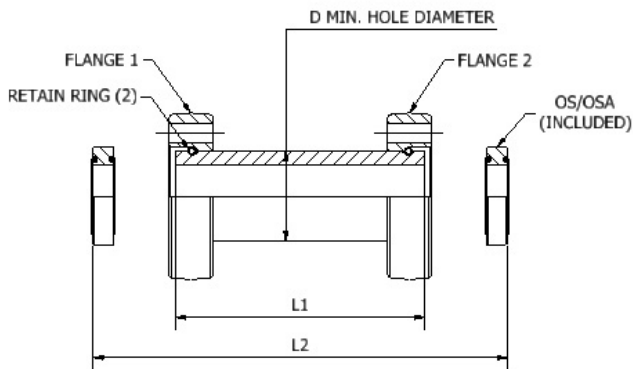
* Insert Material _____
 ^ Insert O-Ring Type _____

^ O-Ring Type:

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

SAE 3000 PSI Retain Ring Flange Bulkhead

SAE J518 Code 61 (ISO 6162-1)



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 G25)

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-FC34-FC34-*^-^	5.69 (144.6)	6.69 (170)	1.02 (26)	2.16 (0.98)	RFBH-050-*^-^	1.08 (0.49)	5000 (350)
3/4"	A/RFBH-075-FC34-FC34-*^-^	5.69 (144.6)	6.69 (170)	1.42 (36)	3.36 (1.52)	RFBH-075-*^-^	2.00 (0.91)	5000 (350)
1"	A/RFBH-100-FC34-FC34-*^-^	5.69 (144.6)	6.69 (170)	1.54 (39)	3.45 (1.56)	RFBH-100-*^-^	1.80 (0.82)	5000 (350)
1-1/4"	A/RFBH-125-FC34-FC34-*^-^	6.09 (154.6)	7.09 (180)	1.81 (46)	4.92 (2.23)	RFBH-125-*^-^	2.60 (1.18)	4000 (280)
1-1/2"	A/RFBH-150-FC34-FC34-*^-^	6.09 (154.6)	7.09 (180)	2.20 (56)	6.67 (3.03)	RFBH-150-*^-^	3.31 (1.50)	4000 (280)
2"	A/RFBH-200-FC34-FC34-*^-^	7.27 (184.6)	8.27 (210)	2.60 (66)	9.70 (4.40)	RFBH-200-*^-^	4.80 (2.18)	4000 (280)
2-1/2"	A/RFBH-250-FC34-FC34-*^-^	6.66 (169.2)	8.66 (220)	3.15 (80)	14.80 (6.71)	RFBH-250-*^-^	7.00 (3.18)	3000 (210)
3"	A/RFBH-300-FC34-FC34-*^-^	7.45 (189.2)	9.45 (240)	3.82 (97)	22.48 (10.20)	RFBH-300-*^-^	10.30 (4.67)	3000 (210)

Flange Options:

FC34 = SAE 3000 PSI Code 61 (ISO 6162-1) Clearance

FT34 = SAE 3000 PSI Code 61 (ISO 6162-1) UNC Threaded

FTM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Metric Threaded

Materials

No Designation = All Carbon Steel, Zinc Nickel Plated.

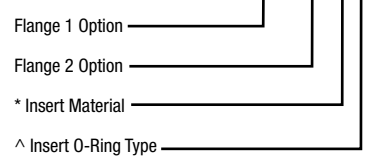
SS = Stainless Steel, Type 316.

^ O-Ring Type:

No Designation = Buna Nitrile.

V = Viton.

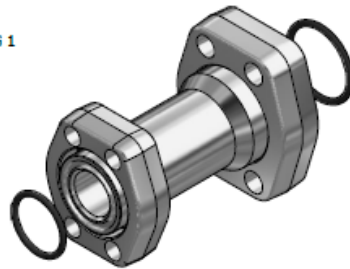
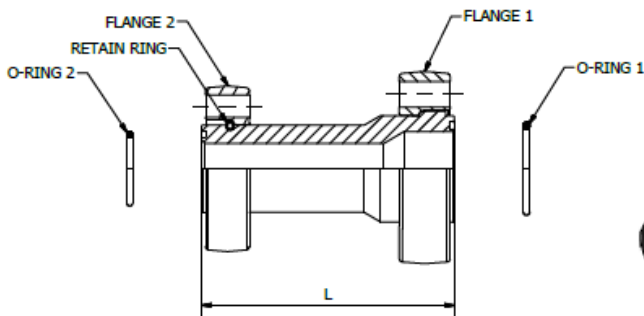
Ordering Example: A/RFBH-050-FC34-FC34-SS-V



3D step models available upon request

SAE 3000 PSI Retain Ring Flange Concentric Reducer Assembly

SAE J518 Code 61 (ISO 6162-1)



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 G25)

A/CR – Retain Ring Flange Concentric Reducer Assembly

Size	Complete Assembly Part Number	Dimensions in (mm)	O-Ring 1 (Buna) Part Number	O-Ring 2 (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		L						
3/4" x 1/2"	A/CR-075x050-FC34-FC34-*^	3.72 (94.5)	OR^3-913	OR^3-909	1.84 (0.83)	CR-075x050-*^	0.88 (0.40)	5000 (350)
1" x 1/2"	A/CR-100x050-FC34-FC34-*^	3.72 (94.5)	OR^3-916	OR^3-909	2.06 (0.93)	CR-100x050-*^	0.97 (0.44)	5000 (350)
1" x 3/4"	A/CR-100x075-FC34-FC34-*^	4.50 (114.3)	OR^3-916	OR^3-913	2.49 (1.13)	CR-100x075-*^	1.49 (0.68)	5000 (350)
1-1/4" x 3/4"	A/CR-125x075-FC34-FC34-*^	4.50 (114.3)	OR^3-918	OR^3-913	3.11 (1.41)	CR-125x075-*^	1.71 (0.78)	4000 (280)
1-1/4" x 1"	A/CR-125x100-FC34-FC34-*^	4.50 (114.3)	OR^3-918	OR^3-916	3.43 (1.56)	CR-125x100-*^	1.90 (0.86)	4000 (280)
1-1/2" x 1"	A/CR-150x100-FC34-FC34-*^	4.50 (114.3)	OR^3-924	OR^3-916	4.04 (1.86)	CR-150x100-*^	2.11 (0.96)	4000 (280)
1-1/2" x 1 1/4"	A/CR-150x125-FC34-FC34-*^	5.26 (133.6)	OR^3-924	OR^3-918	4.81 (2.18)	CR-150x125-*^	2.56 (1.16)	4000 (280)
2" x 1 1/4"	A/CR-200x125-FC34-FC34-*^	5.26 (133.6)	OR^3-928	OR^3-918	6.42 (2.91)	CR-200x125-*^	3.50 (1.59)	4000 (280)
2" x 1 1/2"	A/CR-200x150-FC34-FC34-*^	5.26 (133.6)	OR^3-928	OR^3-924	7.22 (3.27)	CR-200x150-*^	3.74 (1.70)	4000 (280)
2 1/2" x 1 1/2"	A/CR-250x150-FC34-FC34-*^	6.06 (153.9)	OR^2-232	OR^2-924	8.01 (3.63)	CR-250x100-*^	4.67 (2.12)	3000 (210)
2 1/2" x 2"	A/CR-250x200-FC34-FC34-*^	6.06 (153.9)	OR^2-232	OR^2-928	9.72 (4.41)	CR-250x200-*^	5.20 (2.36)	3000 (210)
3" x 2"	A/CR-300x200-FC34-FC34-*^	6.98 (177.3)	OR^2-237	OR^2-928	14.11 (6.40)	CR-300x200-*^	7.70 (3.49)	3000 (210)
3" x 2 1/2"	A/CR-300x250-FC34-FC34-*^	6.98 (177.3)	OR^2-237	OR^2-232	15.39 (6.98)	CR-300x250-*^	8.50 (3.86)	3000 (210)

Flange Options:

FC34 = SAE 3000 PSI Code 61 (ISO 6162-1) Clearance

FT34 = SAE 3000 PSI Code 61 (ISO 6162-1) UNC Threaded

FTM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Metric Threaded

Materials

No Designation = All Carbon Steel, Zinc Nickel Plated.

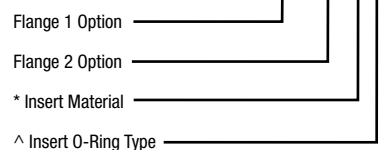
SS = Stainless Steel, Type 316.

^ O-Ring Type:

No Designation = Buna Nitrile.

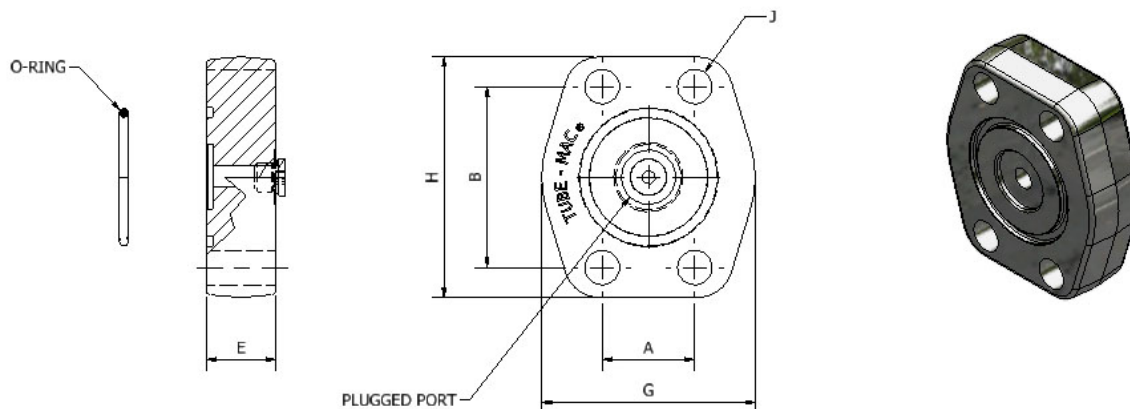
V = Viton.

Ordering Example: A/CR-200x125-FC34-FC34-SS-V



SAE 3000 PSI Blanking Flange O-Ring Face with Clearance Holes

SAE J518 Code 61 (ISO 6162-1)



BF034 – Blanking Flange O-Ring Face with Clearance Holes 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"	BF034-050-*^-^	0.69	1.50	1.88	2.23	0.81	5/16"	OR^-2-210	5000 (350)	0.64 (0.29)
3/4"	BF034-075-*^-^	0.88	1.88	2.06	2.56	0.82	3/8"	OR^-2-214	5000 (350)	0.80 (0.36)
1"	BF034-100-*^-^	1.03	2.06	2.31	2.76	0.87	3/8"	OR^-2-219	5000 (350)	1.10 (0.50)
1-1/4"	BF034-125-*^-^	1.19	2.31	2.88	3.11	0.91	7/16"	OR^-2-222	4000 (280)	1.84 (0.83)
1-1/2"	BF034-150-*^-^	1.41	2.75	3.25	3.66	1.06	1/2"	OR^-2-225	4000 (280)	2.57 (1.17)
2"	BF034-200-*^-^	1.69	3.06	3.81	4.02	1.22	1/2"	OR^-2-228	4000 (280)	3.89 (1.76)
2-1/2"	BF034-250-*^-^	2.00	3.50	4.28	4.49	1.40	1/2"	OR^-2-232	3000 (210)	5.98 (2.71)
3"	BF034-300-*^-^	2.44	4.19	5.16	5.28	1.67	5/8"	OR^-2-237	3000 (210)	10.00 (4.54)

BFOM34 – Blanking Flange O-Ring Face with Clearance Holes and G1/8 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"	BFOM34-050-*^-^	17.5	38.1	47.8	56.6	20.6	M8	OR^-2-210	5000 (350)	0.64 (0.29)
3/4"	BFOM34-075-*^-^	22.4	47.8	52.3	65.0	20.8	M10	OR^-2-214	5000 (350)	0.80 (0.36)
1"	BFOM34-100-*^-^	26.2	52.3	58.7	70.1	22.1	M10	OR^-2-219	5000 (350)	1.10 (0.50)
1-1/4"	BFOM34-125-*^-^	30.2	58.7	73.2	79.0	23.1	M10	OR^-2-222	4000 (280)	1.84 (0.83)
1-1/2"	BFOM34-150-*^-^	35.8	69.9	82.6	93.0	26.9	M12	OR^-2-225	4000 (280)	2.59 (1.17)
2"	BFOM34-200-*^-^	42.9	77.7	96.8	102.1	31.0	M12	OR^-2-228	4000 (280)	3.89 (1.76)
2-1/2"	BFOM34-250-*^-^	50.8	88.9	108.7	114.0	35.6	M12	OR^-2-232	3000 (210)	5.98 (2.71)
3"	BFOM34-300-*^-^	62.0	106.4	131.1	134.1	42.4	M16	OR^-2-237	3000 (210)	10.00 (4.54)

*** Materials:**

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.
SS = Stainless Steel, Type 316.

^ O-Ring Type:

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

Ordering Example: BF034-200-SS-V

* Insert Material _____
^ Insert O-Ring Type _____

3D step models available upon request

Introduction

Technical Data

Pipe Selection Guide

16 bar, 90° Flare

ANSI 150#, 300# Flare

SAE 1000, 70 bar

SAE 3000, 210 bar

SAE 6000, 420 bar

SAE 10000, 690 bar

ISO 6164, 400 bar

ISO 6164, 400 bar F10° Flare

Clamp Supports - Heavy Series

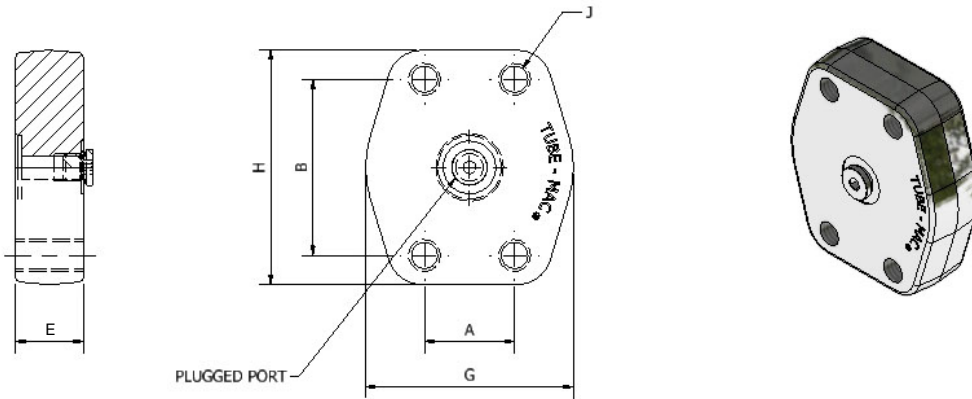
Valves, Ball and Check

G85

SAE 3000 PSI Blanking Flange

Flat Face with Threaded Holes

SAE J518 Code 61 (ISO 6162-1)



BFF34 – 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"	BFF34-050-*^-^	0.69	1.50	1.88	2.23	0.81	5/16"-18	5000 (350)	0.64 (0.29)
3/4"	BFF34-075-*^-^	0.88	1.88	2.06	2.56	0.82	3/8"-16	5000 (350)	0.80 (0.36)
1"	BFF34-100-*^-^	1.03	2.06	2.31	2.76	0.87	3/8"-16	5000 (350)	1.10 (0.50)
1-1/4"	BFF34-125-*^-^	1.19	2.31	2.88	3.11	0.91	7/16"-14	4000 (280)	1.84 (0.83)
1-1/2"	BFF34-150-*^-^	1.41	2.75	3.25	3.66	1.06	1/2"-13	4000 (280)	2.57 (1.17)
2"	BFF34-200-*^-^	1.69	3.06	3.81	4.02	1.22	1/2"-13	4000 (280)	3.89 (1.76)
2-1/2"	BFF34-250-*^-^	2.00	3.50	4.28	4.49	1.40	1/2"-13	3000 (210)	6.23 (2.83)
3"	BFF34-300-*^-^	2.44	4.19	5.16	5.28	1.67	5/8"-11	3000 (210)	10.00 (4.54)

BFFM34 – Blanking Flange Flat Face with G1/8 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"	BFFM34-050-*^-^	17.5	38.1	47.8	56.6	20.6	M8X1.25	5000 (350)	0.64 (0.29)
3/4"	BFFM34-075-*^-^	22.4	47.8	52.3	65.0	20.8	M10X1.50	5000 (350)	0.80 (0.36)
1"	BFFM34-100-*^-^	26.2	52.3	58.7	70.1	22.1	M10X1.50	5000 (350)	1.10 (0.50)
1-1/4"	BFFM34-125-*^-^	30.2	58.7	73.2	79.0	23.1	M10X1.50	4000 (280)	1.84 (0.83)
1-1/2"	BFFM34-150-*^-^	35.8	69.9	82.6	93.0	26.9	M12X1.75	4000 (280)	2.57 (1.17)
2"	BFFM34-200-*^-^	42.9	77.7	96.8	102.1	31.0	M12X1.75	4000 (280)	3.89 (1.76)
2-1/2"	BFFM34-250-*^-^	50.8	88.9	108.7	114.0	35.6	M12X1.75	3000 (210)	6.23 (2.83)
3"	BFFM34-300-*^-^	62.0	106.4	131.1	134.1	42.4	M16X2.00	3000 (210)	10.00 (4.54)

*** Materials:**

Standard, No Designation = Carbon Steel, Zinc Nickel Plated.

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

Ordering Example: BFF34-200-SS

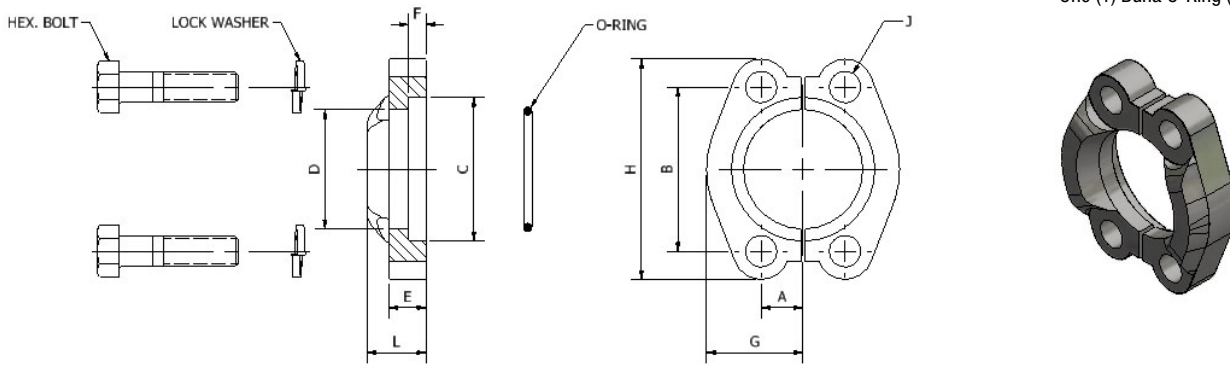
* Insert Material _____

SAE 3000 PSI Split Flange Kits

SAE J518 Code 61 (ISO 6162-1)

Complete Flange Set Includes:

- One (1) Split Flange (2 Halves)
- Four (4) Hex Head Bolts
- Four (4) Lock Washers
- One (1) Buna O-Ring (Standard)



SFK34 - Split Flange Kit, NPS

Size	Complete Assembly Part Number	Dimensions (in)									Drill Dia. (in) J	HHCS Min. Grade 5 UNC-2A	O-Ring (Buna) Part Number	WT (lbs)	Working Pressure PSI (bar)
		A	B	C	D	E	F	G	H	L					
1/2"	SFK34-050-*^-^	0.34	1.50	1.21	0.96	0.51	0.24	0.90	2.12	0.75	0.34	5/16"-18 x 1.25	OR^-2-210	0.42	5000 (350)
3/4"	SFK34-075-*^-^	0.44	1.88	1.53	1.26	0.55	0.24	1.03	2.56	0.87	0.42	3/8"-16 x 1.25	OR^-2-214	0.51	5000 (350)
1"	SFK34-100-*^-^	0.51	2.06	1.78	1.51	0.63	0.29	1.15	2.75	0.94	0.42	3/8"-16 x 1.25	OR^-2-219	0.65	5000 (350)
1-1/4"	SFK34-125-*^-^	0.59	2.31	2.03	1.72	0.55	0.29	1.44	3.12	0.87	0.47	7/16"-14 x 1.50	OR^-2-222	0.89	4000 (280)
1-1/2"	SFK34-150-*^-^	0.70	2.75	2.41	2.00	0.63	0.29	1.62	3.69	0.98	0.53	1/2"-13 x 1.50	OR^-2-225	1.44	3000 (210)
2"	SFK34-200-*^-^	0.84	3.06	2.84	2.47	0.63	0.36	1.90	4.00	1.02	0.53	1/2"-13 x 1.50	OR^-2-228	1.56	3000 (210)
2-1/2"	SFK34-250-*^-^	1.00	3.50	3.34	2.95	0.75	0.36	2.14	4.50	1.50	0.53	1/2"-13 x 1.75	OR^-2-232	2.13	2500 (175)
3"	SFK34-300-*^-^	1.22	4.19	4.03	3.58	0.87	0.36	2.58	5.31	1.61	0.66	5/8"-11 x 1.75	OR^-2-237	3.65	2000 (140)

SFKM34 - Split Flange Kit Metric

Size	Complete Assembly Part Number	Dimensions (mm)									Drill Dia. (mm) J	HHCS Min. 10.9	O-Ring (Nitrile) Part Number	WT (kg)	Working Pressure PSI (bar)
		A	B	C	D	E	F	G	H	L					
1/2"	SFKM34-050-*^-^	8.6	38.1	30.7	24.4	13.0	6.1	22.9	53.8	19.1	8.6	M8 x 30	OR^-2-210	0.19	5000 (350)
3/4"	SFKM34-075-*^-^	11.2	47.8	38.9	32.0	14.0	6.1	26.2	65.0	22.1	10.7	M10 x 30	OR^-2-214	0.23	5000 (350)
1"	SFKM34-100-*^-^	13.0	52.3	45.2	38.4	16.0	7.4	29.2	69.9	23.9	10.7	M10 x 30	OR^-2-219	0.30	5000 (350)
1-1/4"	SFKM34-125-*^-^	15.0	58.7	51.6	43.7	14.0	7.4	36.6	79.2	22.1	11.9	M10 x 40	OR^-2-222	0.40	4000 (280)
1-1/2"	SFKM34-150-*^-^	17.8	69.9	61.2	50.8	16.0	7.4	41.1	93.7	24.9	13.5	M12 x 40	OR^-2-225	0.65	3000 (210)
2"	SFKM34-200-*^-^	21.3	77.7	72.1	62.7	16.0	9.1	48.3	101.6	25.9	13.5	M12 x 40	OR^-2-228	0.71	3000 (210)
2-1/2"	SFKM34-250-*^-^	25.4	88.9	84.8	74.9	19.1	9.1	54.4	114.3	38.1	13.5	M12 x 45	OR^-2-232	0.97	2500 (175)
3"	SFKM34-300-*^-^	31.0	106.4	102.4	90.9	22.1	9.1	65.5	134.9	40.9	16.8	M16 x 45	OR^-2-237	1.66	2000 (140)

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

V = Viton.

Ordering Example: SFK34-100-SS-V

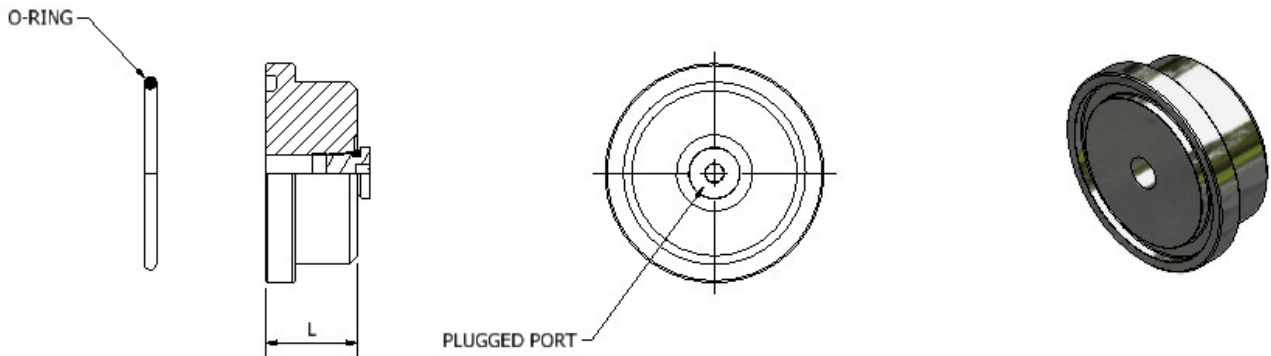
* Insert Material

^ Insert O-Ring Type

3D step models available upon request

SAE 3000 PSI Split Flange Plugs

SAE J518 Code 61 (ISO 6162-1)



SFP34 - Complete with Buna O-Ring (Standard) and #4 SAE Port (Plugged), NPS

Size	Blanking Flange Part Number	Dimensions (in)	O-Ring (Buna) Part Number	Working Pressure PSI (bar)	WT lbs (kg)
		L			
1/2"	SFP34-050-^	0.75	OR^2-210	5000 (350)	0.13 (0.06)
3/4"	SFP34-075-^	0.88	OR^2-214	5000 (350)	0.28 (0.13)
1"	SFP34-100-^	1.00	OR^2-219	5000 (350)	0.50 (0.23)
1-1/4"	SFP34-125-^	0.88	OR^2-222	4000 (280)	0.57 (0.26)
1-1/2"	SFP34-150-^	1.00	OR^2-225	4000 (280)	0.91 (0.41)
2"	SFP34-200-^	1.00	OR^2-228	4000 (280)	1.40 (0.64)
2-1/2"	SFP34-250-^	1.00	OR^2-232	3000 (210)	2.00 (0.91)
3"	SFP34-300-^	1.00	OR^2-237	3000 (210)	2.90 (1.32)

SFPM34 - Complete with Nitrile O-Ring (Standard) and G1/8 BSPP Port (Plugged), Metric

Size	Blanking Flange Part Number	Dimensions (mm)	O-Ring (Nitrile) Part Number	Working Pressure PSI (bar)	WT (kg)
		L			
1/2"	SFPM34-050-^	19.1	OR^2-210	5000 (350)	0.13 (0.06)
3/4"	SFPM34-075-^	22.4	OR^2-214	5000 (350)	0.28 (0.13)
1"	SFPM34-100-^	25.4	OR^2-219	5000 (350)	0.50 (0.23)
1-1/4"	SFPM34-125-^	22.4	OR^2-222	4000 (280)	0.57 (0.26)
1-1/2"	SFPM34-150-^	25.4	OR^2-225	4000 (280)	0.91 (0.41)
2"	SFPM34-200-^	25.4	OR^2-228	4000 (280)	1.40 (0.64)
2-1/2"	SFPM34-250-^	25.4	OR^2-232	3000 (210)	2.00 (0.91)
3"	SFPM34-300-^	25.4	OR^2-237	3000 (210)	2.90 (1.32)

^ O-Ring Type:

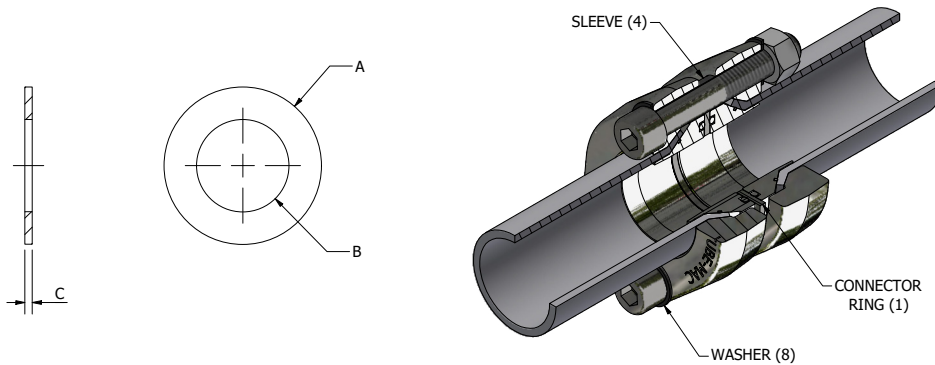
Standard, No Designation = Buna Nitrile.
V = Viton.

Ordering Example: SFP34-200-V

^ Insert O-Ring Type _____

SAE 3000 PSI Non-Conductive Connector Plate with Bolt Isolation

SAE J518 Code 61 (ISO 6162-1)



Complete Set Includes:

- One (1) Non-Conductive Plate
- Four (4) Sleeves for Bolts
- Eight (8) Washers for Bolts

NCCR – Non-Conductive Connector Plate

Size	Part Number	Dimensions in (mm)			WT lbs (kg)
		A	B	C	
1/2"	NCCR34-050	1.30 (33.0)	0.50 (12.70)	0.16 (4.00)	0.09 (0.04)
3/4"	NCCR34-075	1.65 (42.0)	0.75 (19.0)	0.16 (4.00)	0.12 (0.05)
1"	NCCR34-100	1.87 (47.6)	0.98 (25.00)	0.16 (4.00)	0.14 (0.06)
1-1/4"	NCCR34-125	2.13 (54.0)	1.25 (31.7)	0.16 (4.00)	0.20 (0.09)
1-1/2"	NCCR34-150	2.56 (65.0)	1.50 (38.1)	0.16 (4.00)	0.28 (0.13)
2"	NCCR34-200	2.95 (75.0)	2.00 (50.88)	0.16 (4.00)	0.33 (0.15)

Notes:

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

3D step models available upon request

TUBE-MAC.com

Introduction

Technical
Data

Pipe
Selection
Guide

16 bar,
90° Flare

ANSI 150#,
300# Flare

SAE 1000,
70 bar

SAE 3000,
210 bar

SAE 6000,
420 bar

SAE 10000,
690 bar

ISO 6164,
400 bar

ISO 6164,
400 bar
F10° Flare

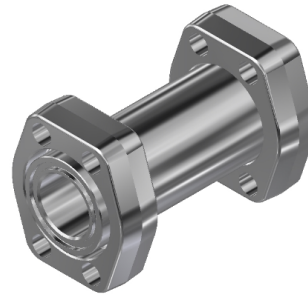
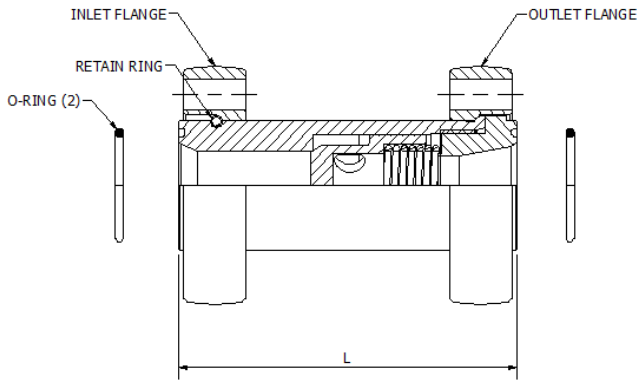
Clamp
Supports -
Heavy Series

Valves, Ball
and Check

G89

SAE 3000 PSI Check Valve Retain Ring Flange Style

SAE J518 Code 61 (ISO 6162-1)



Complete Assembly Consists Of:

- One (1) Check Valve Body – Poppet Style
- Two (2) Retain Ring Flanges
- One (1) Retain Ring
- Two (2) Buna O-Rings (Standard)

CV Check Valve Complete with Buna O-Rings (Standard)

Size	Complete Assembly Part Number	Dimensions in (mm)	O-Ring 1 (Buna) Part Number	Assembly WT lbs (kg)	Body Only Part Number	Body Only WT lbs (kg)	Working Pressure PSI (bar)
		L					
3/4"	A/CV-075-FC34-FC34-07-*^-^	3.60 (91.4)	OR^3-913	2.70 (1.22)	CV-075-07-*^-^	1.50 (0.68)	5000 (350)
1"	A/CV-100-FC34-FC34-07-*^-^	4.40 (111.8)	OR^3-916	3.19 (1.45)	CV-100-07-*^-^	1.73 (0.78)	5000 (350)
1-1/4"	A/CV-125-FC34-FC34-07-*^-^	5.18 (131.6)	OR^3-918	4.13 (1.87)	CV-125-07-*^-^	2.15 (0.98)	4000 (280)
1-1/2"	A/CV-150-FC34-FC34-07-*^-^	5.76 (146.3)	OR^3-924	7.11 (3.23)	CV-150-07-*^-^	4.05 (1.84)	4000 (280)
2"	A/CV-200-FC34-FC34-07-*^-^	6.74 (171.2)	OR^3-928	9.60 (4.35)	CV-200-07-*^-^	5.20 (2.36)	4000 (280)
2-1/2"	A/CV-250-FC34-FC34-07-*^-^	7.14 (181.4)	OR^2-232	13.15 (5.96)	CV-250-07-*^-^	5.30 (2.40)	3000 (210)
3"	A/CV-300-FC34-FC34-07-*^-^	7.53 (191.3)	OR^2-237	22.30 (10.12)	CV-300-07-*^-^	12.30 (5.58)	3000 (210)

Flange Option:

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.

* Materials:

Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.

SS = Stainless Steel, Type 316.

^ O-Ring Type:

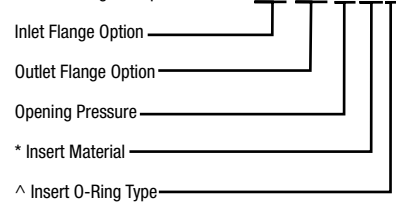
Standard, No Designation = Buna Nitrile.

V = Viton.

Opening Pressure

	PSI (bar)
Standard	07 (0.5)
Optional	21 (1.5)
Optional	43 (3.0)

Ordering Example: A/CV-200-FC34-FC34-07-SS-V

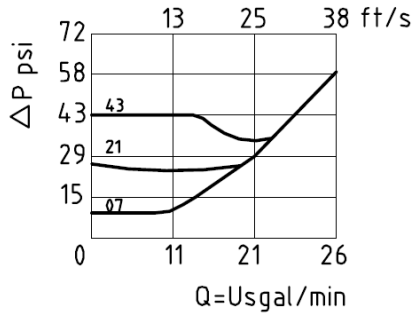


SAE 3000 PSI Check Valve Retain Ring Flange Style

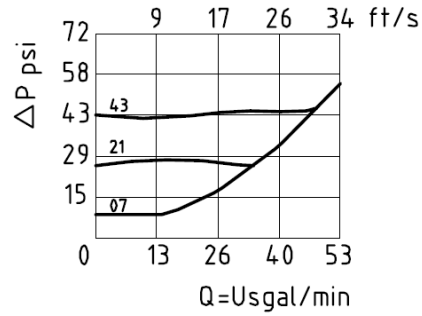
SAE J518 Code 61 (ISO 6162-1)

Performance Curves: Measured using oil at 190SUS and 122° F

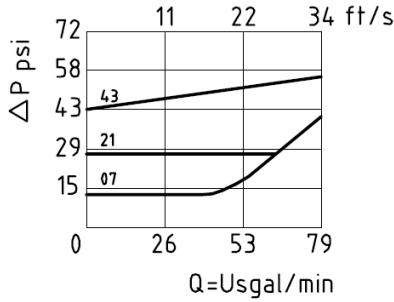
3/4"



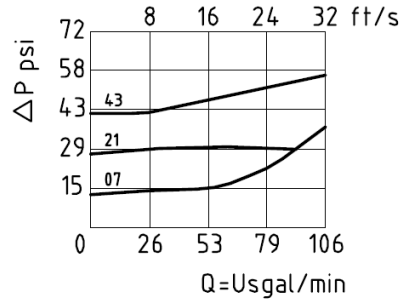
1"



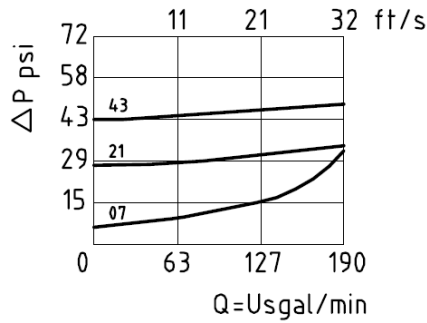
1-1/4"



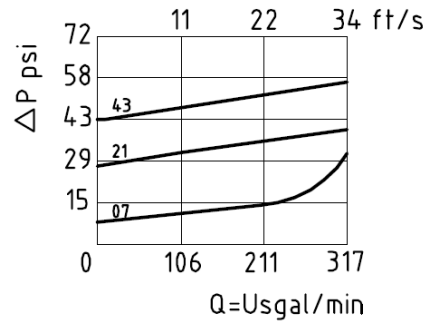
1-1/2"



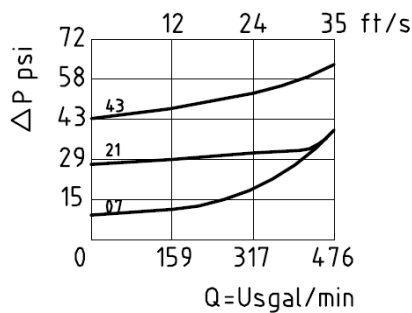
2"



2-1/2"



3"

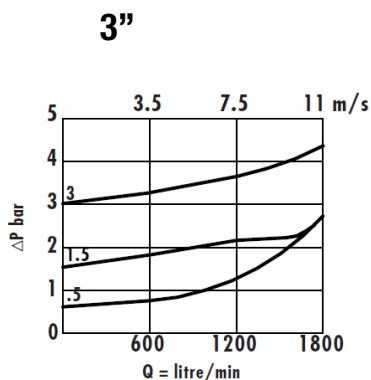
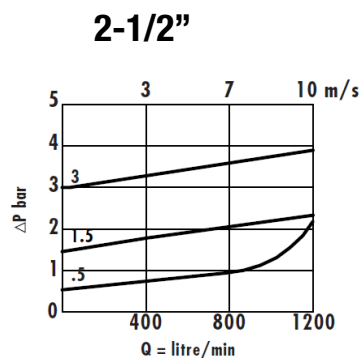
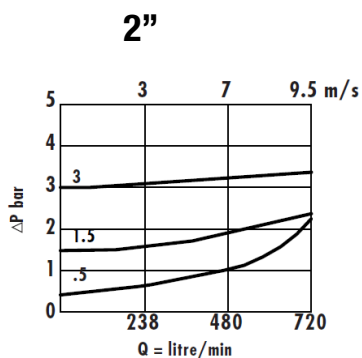
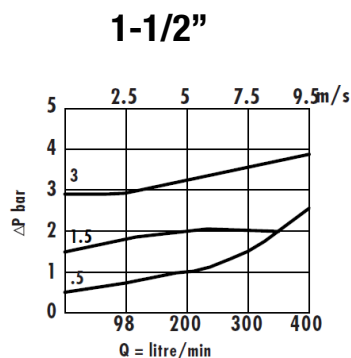
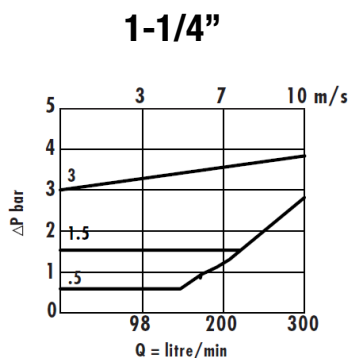
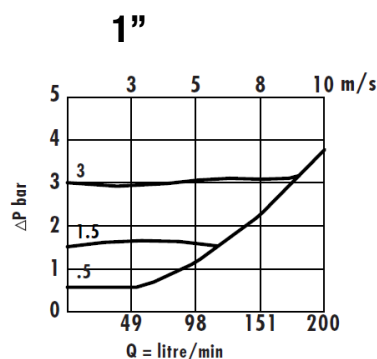
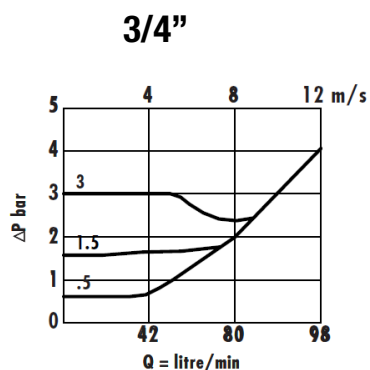


3D step models available upon request

SAE 3000 PSI Check Valve Retain Ring Flange Style

SAE J518 Code 61 (ISO 6162-1)

Performance Curves: Measured using oil at 190SUS and 50° C



3D step models available upon request

