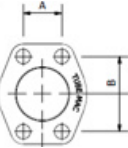
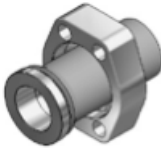
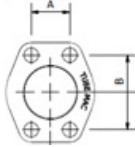
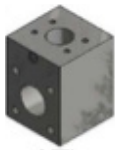
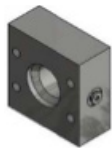
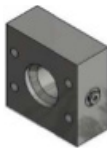


# SAE 3000 PSI, 210 bar Reference Guide

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|                                                                                             |                                                                                                 |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
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**Connector Plate**

CP  
Page G78



**Retain Ring**

R, RA  
Page G79



**O-Ring Spacer  
RR Pipe Flange  
Connection**

OS  
Page G80



**O-Ring Spacer  
RR Pipe  
to Hose End**

OSH  
Page G81



**O-Ring Spacer  
With Pilot Port**

NPS, Metric  
OSP, OSPM  
Page G82



**Retain Ring  
Flange Bulkhead  
Assembly**

A/RFBH  
Page G83



**Retain Ring Flange  
Concentric Reducer  
Assembly**

A/CR  
Page G84



**Blanking Flange  
O-Ring Face with  
Clearance Holes**

BF034, BF0M34  
Page G85



**Blanking Flange  
Flat Face with  
Threaded Holes**

BFF34, BFFM34  
Page G86



**Split Flange Kit  
Includes Bolts**

NPS, Metric  
SFK34, SFKM34  
Page G87



**Split Flange Plug**

NPS, Metric  
SFP34, SFPM34  
Page G88



**Non-Conductive  
Connector Plate**

NPS, Metric  
NCCP34  
Page G89

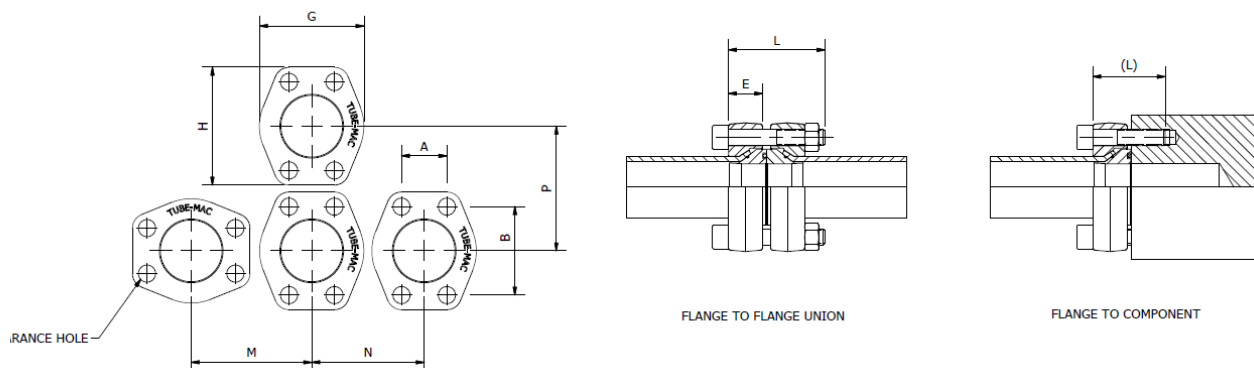


**Non-Return  
Check Valve**

NPS, Metric  
A/CV  
Page G90

# SAE 3000 PSI Flare Flange Dimensions

SAE J518 Code 61 (ISO 6162-1)



## Flare Flange Dimensions, NPS

| Size   | Dimensions (in) |      |      |      |      |      |      |      | SHCS Bolt (in)*<br>L (L)   | Working Pressure<br>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)*<br>L (L) | Working Pressure<br>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

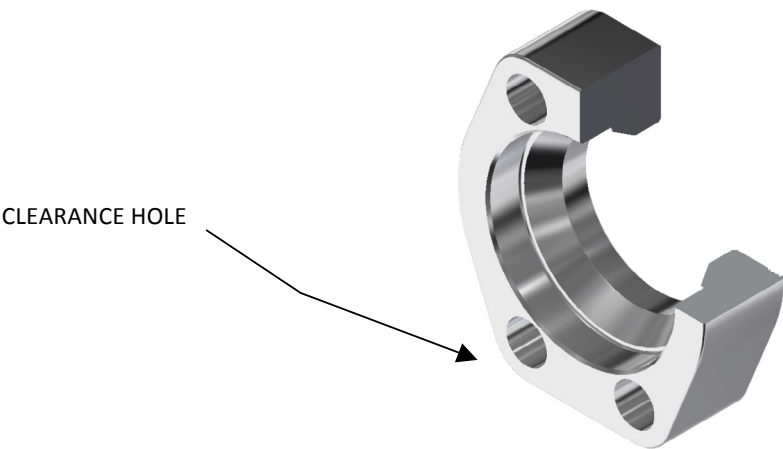
Clamp  
Supports -  
Heavy Series

Valves, Ball  
and Check

G1

# 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.<br>(in) | Standard<br>Part Number | Working<br>Pressure<br>PSI (Bar) | Weight<br>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.

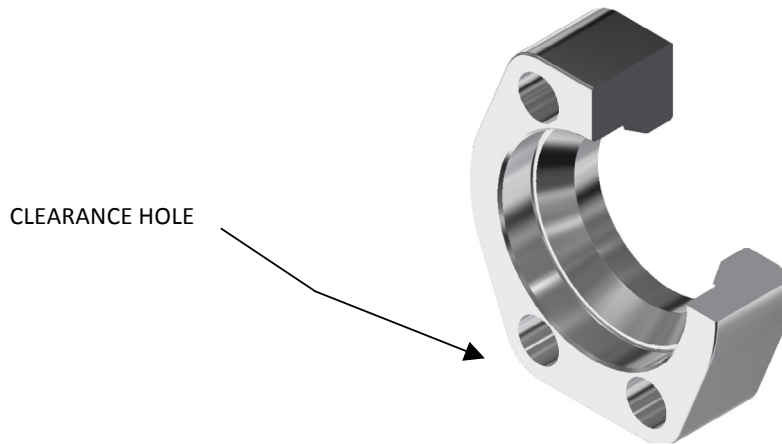
SS = Stainless Steel, Type 316.

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

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

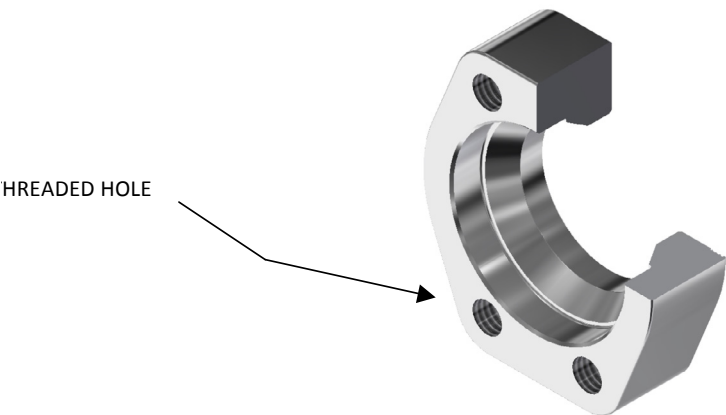
ISO 6164,  
400 bar  
F10° Flare

Clamp  
Supports -  
Heavy Series

Valves, Ball  
and Check

# 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.<br>(in) | Standard Part Number | Working Pressure<br>PSI (bar) | Weight<br>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.

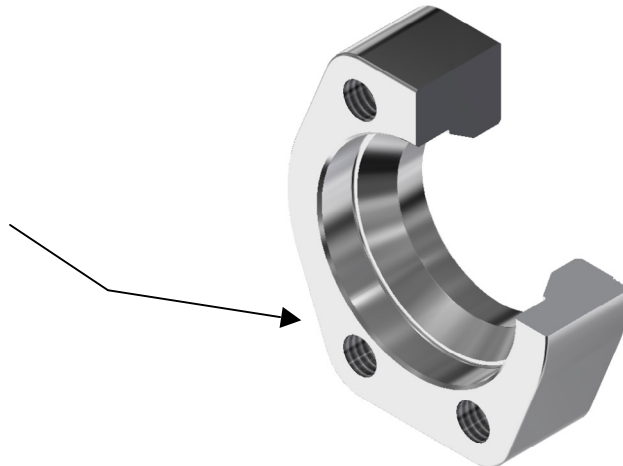
Ordering Example: FFT34-200-SS

\* Insert Material

# SAE 3000 PSI Flare Flange with Threaded Holes, Metric

SAE J518 Code 61 (ISO 6162-1)

THREADED HOLE



**FFTM34 - Flare Flange with Threaded Holes, Metric**

| Size   | Pipe O.D.<br>(mm) | Standard Part Number | Working Pressure<br>PSI (Bar) | Weight<br>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:**

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

HDG = Carbon Steel, Hot Dip Galvanized.

SS = Stainless Steel, Type 316.

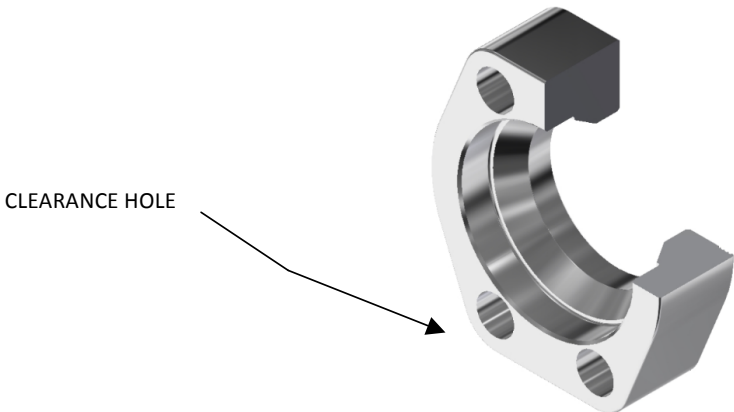
Ordering Example: FFTM34-200-50MM-SS

\* 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

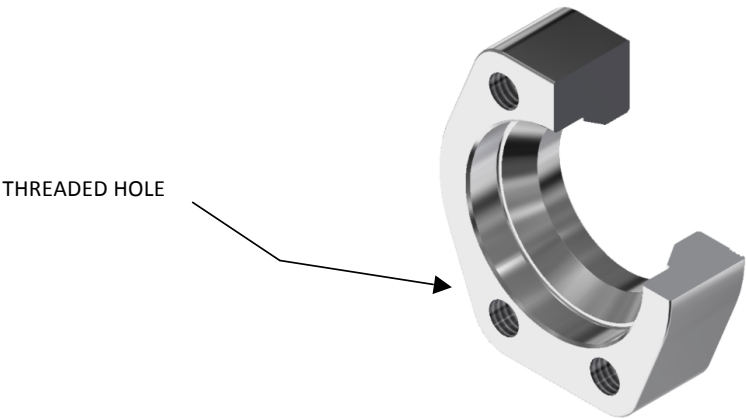
| FFCR34 - Flare Flange - Reducing with Clearance Holes, NPS |                      |                               |                    |
|------------------------------------------------------------|----------------------|-------------------------------|--------------------|
| Size<br>(flange x pipe)                                    | Standard Part Number | Working Pressure PSI<br>(Bar) | Weight<br>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<br>(flange x pipe)                                   | Standard Part Number | Working Pressure<br>PSI (Bar) | Weight<br>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:**

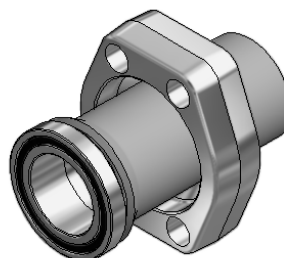
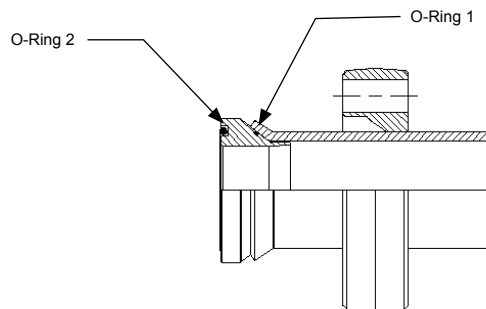
Standard, No Designation = Carbon Steel, Zinc Nickel Plated.  
HDG = Carbon Steel, Hot Dip Galvanized.  
SS = Stainless Steel, Type 316.

Ordering Example: FFTR34-075 x 050-SS

\* Insert Material

# 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.

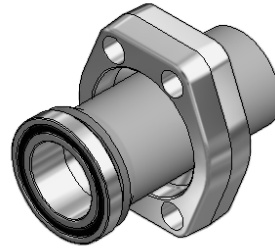
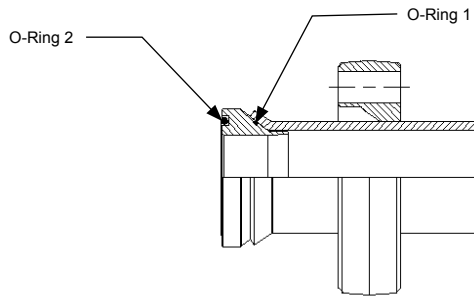
Ordering Example: FFC34-CO-SCH80-200-SS-V

\* 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

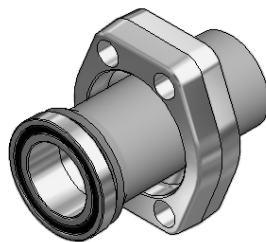
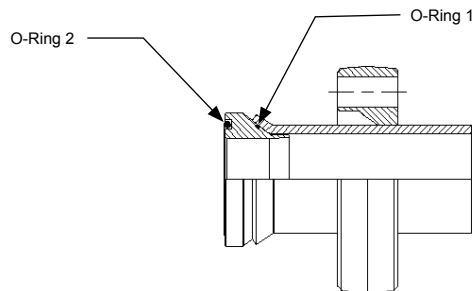
\* Insert Material

^ 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)     | FFCM34-200-*       | CO-60x3.0-200-*^-^                  | ORV-5715                     | OR^-2-228                   |
| 2"     | 60x5.0    | FFCM34-CO-60x5.0-200-*^-^            | 2.63 (1.20)     | FFCM34-200-*       | CO-60x5.0-200-*^-^                  | ORV-5615                     | OR^-2-228                   |
| 2"     | 60x6.0    | FFCM34-CO-60x6.0-200-*^-^            | 2.63 (1.20)     | FFCM34-200-*       | 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    | FFCM34-CO-SCH80-250-*^-^             | 4.07 (1.85)     | FFCM34-250-*       | 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 \_\_\_\_\_

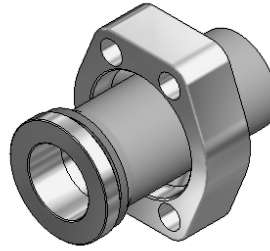
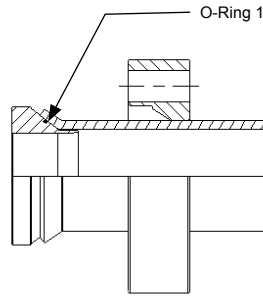
^ Insert O-Ring 2 Type \_\_\_\_\_

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

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

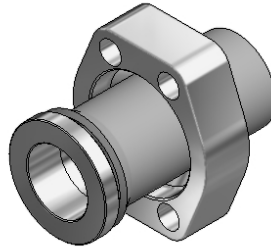
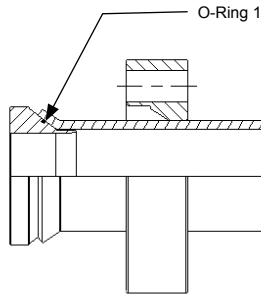
Valves, Ball and Check

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.

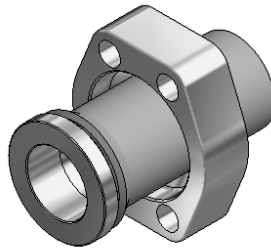
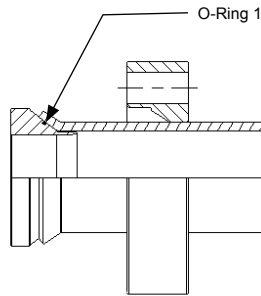
Ordering Example: FFCM34-CF-50x3.0-200-SS

\* 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

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

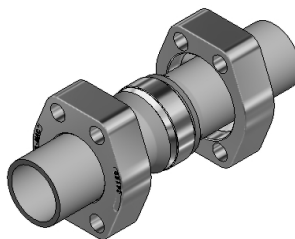
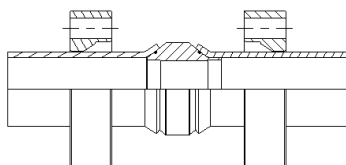
Clamp Supports - Heavy Series

Valves, Ball and Check

G13

# 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.

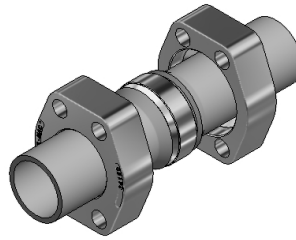
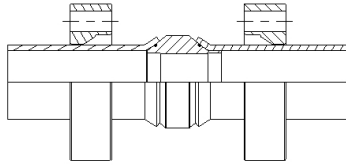
HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

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.

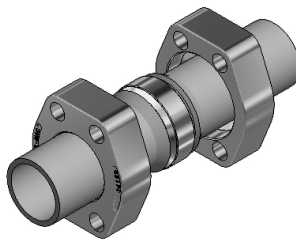
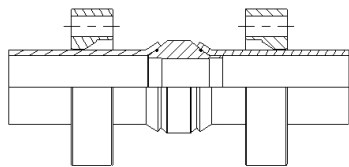
Ordering Example: FFCM34-CD-50x3.0-200-SS

\* 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.

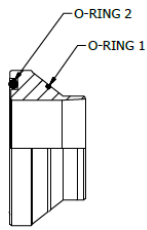
HDGSS = Carbon Steel, Hot Dip Galvanized Flange with Stainless Steel Cone, Type 316.

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

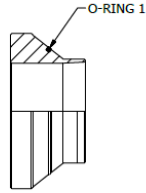
\* Insert Material

# SAE 3000 PSI Cone Inserts for Flare Flange Connections, NPS

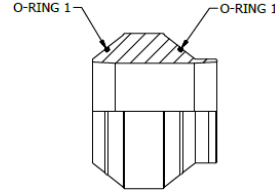
SAE J518 Code 61 (ISO 6162-1)



TYPE CO



TYPE CF



TYPE CD

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

| Size   | Pipe Size     | O-Ring Face Cone Insert<br>Part Number<br>(Type CO) | WT/Set<br>lbs (kg) | Flat Face Cone Insert<br>Part Number<br>(Type CF) | WT/Set<br>lbs (kg) | Double Cone Insert<br>Part Number<br>(Type CD) | WT/Set<br>lbs (kg) | O-Ring 1<br>(VITON)<br>Part Number | O-Ring 2<br>(Buna)<br>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

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

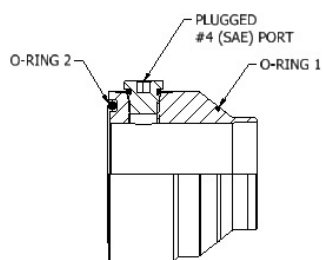
Clamp  
Supports -  
Heavy Series

Valves, Ball  
and Check

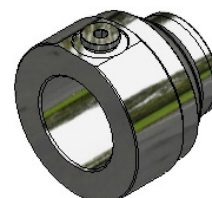
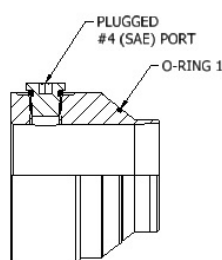
G17

# 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<br>Part Number<br>(Type COP) | WT/Set<br>lbs (kg) | Flat Face Cone Insert<br>Part Number<br>(Type CFP) | WT/Set<br>lbs (kg) | O-Ring 1<br>(VITON)<br>Part Number | O-Ring 2<br>(Buna)<br>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.

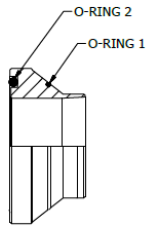
Ordering Example: COP-SCH80-200-SS-V

\* Insert Material \_\_\_\_\_

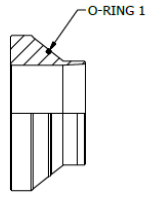
^ Insert O-Ring 2 Type \_\_\_\_\_

# SAE 3000 PSI Cone Inserts for Flare Flange Connections, Metric

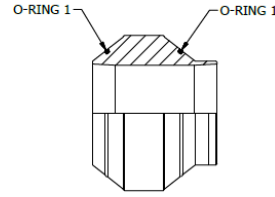
SAE J518 Code 61 (ISO 6162-1)



TYPE CO



TYPE CF



TYPE CD

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

| Size   | Pipe Size | O-Ring Face Cone Insert<br>Part Number<br>(Type CO) | Weight<br>lbs (kg) | Flat Face Cone Insert<br>Part Number<br>(Type CF) | Weight<br>lbs (kg) | Double Cone Insert<br>Part Number<br>(Type CD) | Weight<br>lbs (kg) | O-Ring 1<br>(VITON)<br>Part Number | O-Ring 2<br>(Buna)<br>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

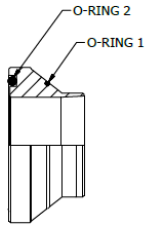
\* Insert Material

^ Insert O-Ring 2 Type

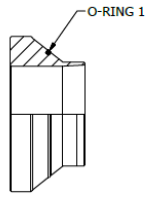
3D step models available upon request

# SAE 3000 PSI Cone Inserts for Flare Flange Connections, Metric

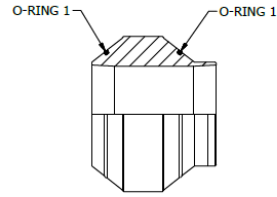
SAE J518 Code 61 (ISO 6162-1)



TYPE CO



TYPE CF



TYPE CD

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

| Size   | Pipe Size | O-Ring Face Cone Insert<br>Part Number<br>(Type CO) | Weight<br>lbs (kg) | Flat Face Cone Insert<br>Part Number<br>(Type CF) | Weight<br>lbs (kg) | Double Cone Insert<br>Part Number<br>(Type CD) | Weight<br>lbs (kg) | O-Ring 1<br>(VITON)<br>Part Number | O-Ring 2<br>(Buna)<br>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.

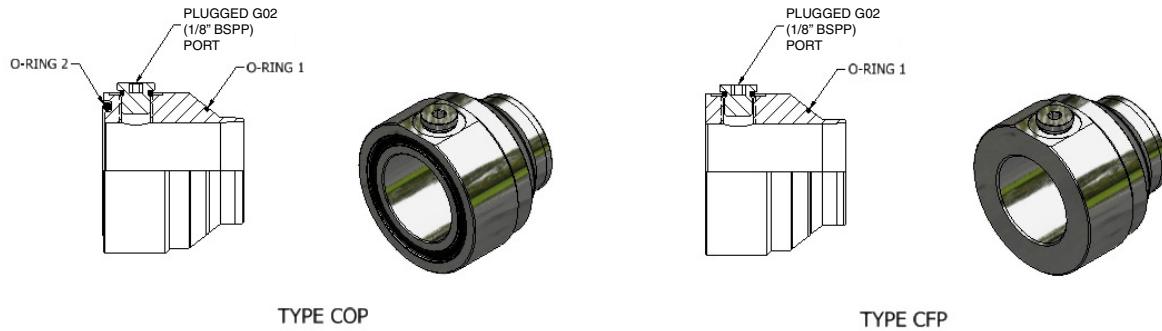
Ordering Example: CO-50x3.0-200-SS-V

\* 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<br>Part Number<br>(Type COP) | WT<br>lbs (kg) | Flat Face Cone Insert<br>Part Number<br>(Type CFP) | WT<br>lbs (kg) | O-Ring 1<br>(VITON)<br>Part Number | O-Ring 2<br>(Buna)<br>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

\* Insert Material \_\_\_\_\_

^ Insert O-Ring 2 Type \_\_\_\_\_

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

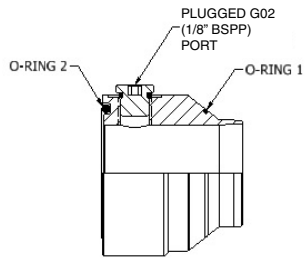
Clamp  
Supports -  
Heavy Series

Valves, Ball  
and Check

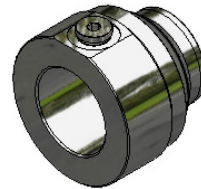
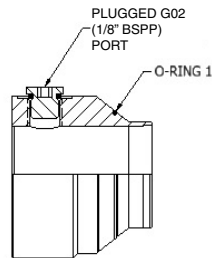
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# SAE 3000 PSI Cone Inserts with Pilot Port for Flare Flange Connections, Metric

SAE J518 Code 61 (ISO 6162-1)



TYPE COP



TYPE CFP

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

| Size   | Pipe Size | O-Ring Face Cone Insert<br>Part Number<br>(Type COP) | WT<br>lbs (kg) | Flat Face Cone Insert<br>Part Number<br>(Type CFP) | WT<br>lbs (kg) | O-Ring 1<br>(VITON)<br>Part Number | O-Ring 2<br>(Buna)<br>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.

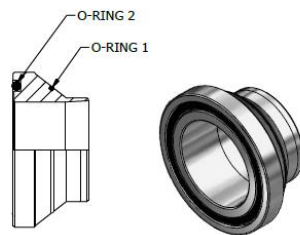
Ordering Example: COP-50x3.0-200-SS-V

\* Insert Material

^ Insert O-Ring 2 Type

# 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.

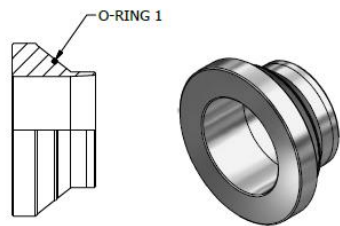
Ordering Example: COR-SCH80-100-SS-V

\* Insert Material

^ Insert O-Ring 2 Type

# 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:**

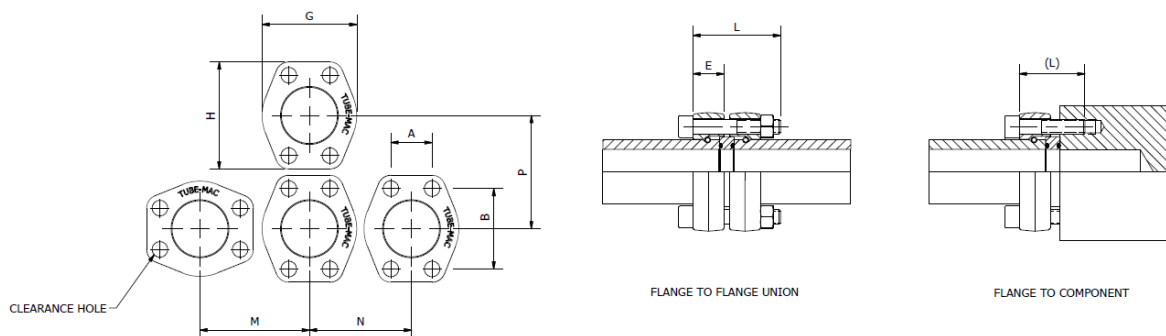
Standard, No Designation = Buna Nitrile.  
V = Viton.

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)*<br>L (L)  | Working Pressure<br>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 x4.50 (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)*<br>L (L) | Working Pressure<br>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)                    |

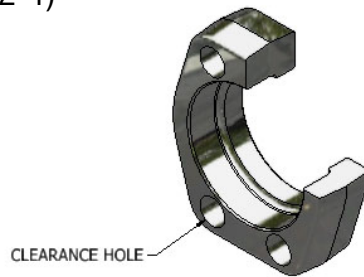
### \* SHCS Bolt Specification

Carbon Steel: DIN912 / ISO4762 Grade 8.8

316 Stainless Steel: DIN912 / ISO4762 A480

# 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.

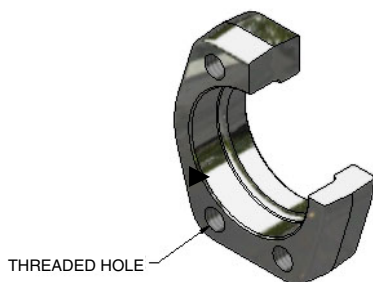
SS = Stainless Steel, Type 316.

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

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

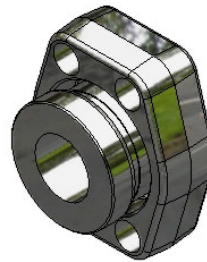
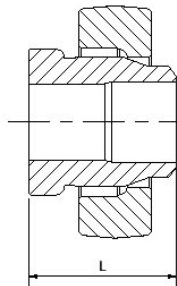
Clamp Supports - Heavy Series

Valves, Ball and Check

G27

# 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

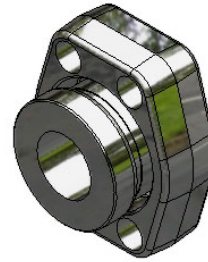
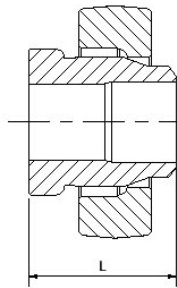
### Note:

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

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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(in)<br>L | Weld Adapter Body<br>Part Number | Flange<br>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

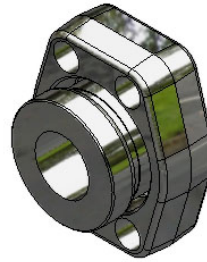
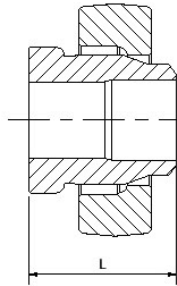
### Note:

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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(in)<br>L | Weld Adapter Body<br>Part Number | Flange<br>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 \_\_\_\_\_

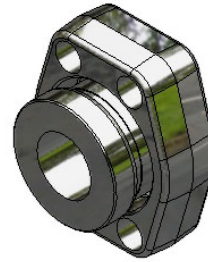
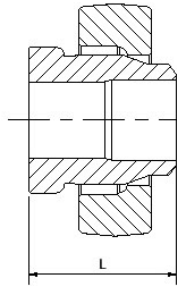
### Note:

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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(in)<br>L | Weld Adapter Body<br>Part Number | Flange<br>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.

### Note:

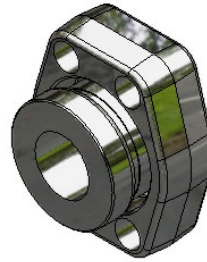
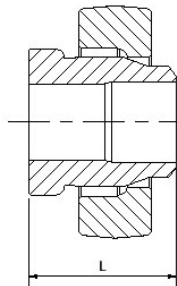
To Order A Retain Ring Flange with Threaded Holes, Replace FC with FT in the Part Number

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

\* Insert Material

# 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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(in)<br>L | Weld Adapter Body<br>Part Number | Flange<br>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

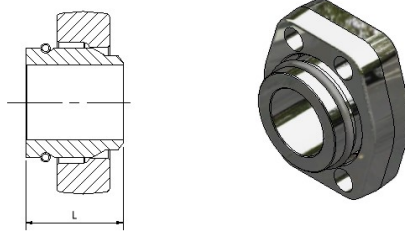
### Note:

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

3D step models available upon request

# 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

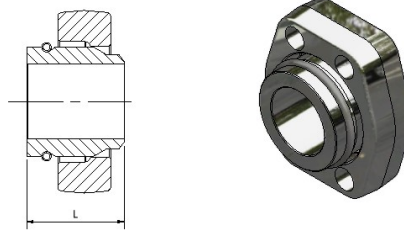
\* Insert Material \_\_\_\_\_

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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(mm)<br>L | Weld Adapter Body<br>Part Number | Flange<br>Part Number | Retain Ring<br>(Stainless<br>Steel)<br>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

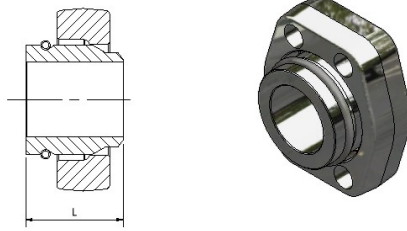
#### Note:

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

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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(mm) L | Weld Adapter Body<br>Part Number | Flange<br>Part Number | Retain Ring<br>(Stainless<br>Steel)<br>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:

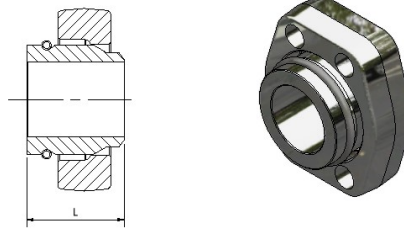
To Order A Retain Ring Flange with Threaded Holes, Replace FC with FTM in the Part Number.

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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(mm)<br>L | Weld Adapter Body<br>Part Number | Flange<br>Part Number | Retain Ring<br>(Stainless<br>Steel)<br>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

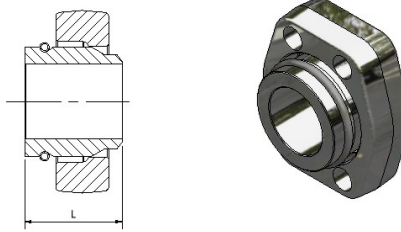
#### Note:

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

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<br>OD x Wall | Complete Flange Set<br>Part Number | WT/Set<br>lbs (kg) | Dimension<br>(mm)<br>L | Weld Adapter Body<br>Part Number | Flange<br>Part Number | Retain Ring<br>(Stainless<br>Steel)<br>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:

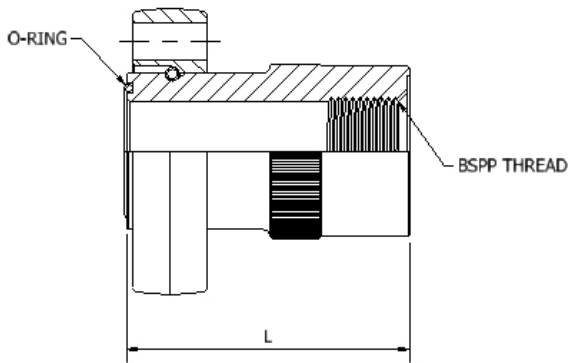
To Order A Retain Ring Flange with Threaded Holes, Replace FC with FTM in the Part Number.

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<br>(flange x<br>thread) | Complete Assembly<br>Part Number | Dimensions<br>in (mm) | Thread<br>Size | O-Ring (Buna<br>Part Number | Assembly<br>WT<br>lbs (kg) | Body Only<br>Part Number | Body Only<br>WT<br>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

Flange Option \_\_\_\_\_

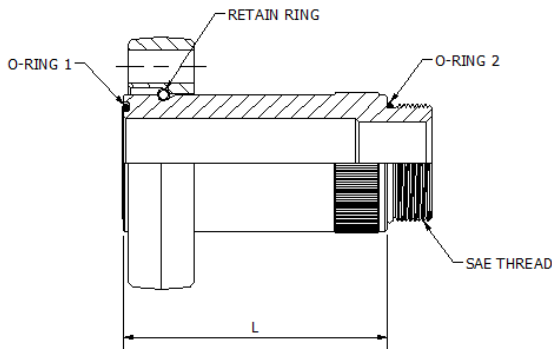
\* Insert Material \_\_\_\_\_

^ Insert O-Ring Type \_\_\_\_\_

# 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<br>(flange x<br>thread) | Complete Assembly<br>Part Number | Dimensions<br>in (mm) | Thread Size<br>UNF/<br>UN-2A | O-Ring 1<br>(Buna)<br>Part Number | O-Ring 2<br>(Buna)<br>Part Number | Assembly<br>WT<br>lbs (kg) | Body Only<br>Part Number | Body Only<br>WT<br>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

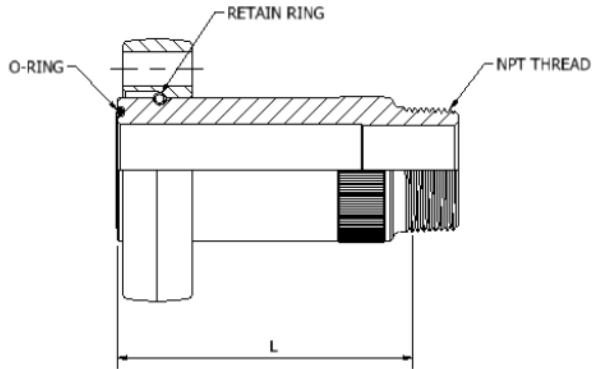


3D step models available upon request

# 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<br>(flange x<br>thread) | Complete Assembly<br>Part Number | Dimensions<br>in (mm) | NPTF<br>Thread<br>(Dryseal) | O-Ring<br>(Buna)<br>Part Number | Assembly<br>WT<br>lbs (kg) | Body Only<br>Part Number | Body Only<br>WT<br>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.

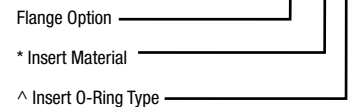
SS = Stainless Steel, Type 316.

#### ^ O-Ring Type:

Standard, No Designation = Buna Nitrile.

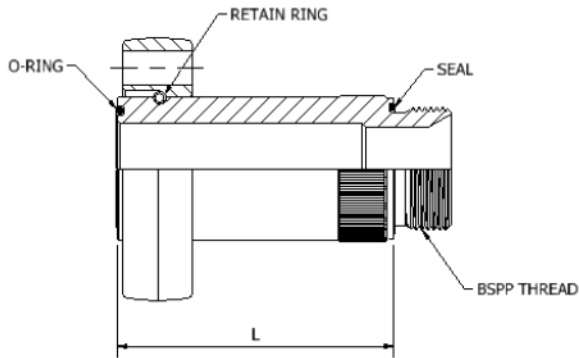
V = Viton.

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<br>(flange x<br>thread) | Complete Assembly<br>Part Number | Dimensions<br>in (mm) | Thread<br>Size | O-Ring 1<br>(Buna)<br>Part Number | Seal 2<br>(Buna)<br>Part Number | Assembly<br>WT<br>lbs (kg) | Body Only<br>Part Number | Body Only<br>WT<br>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

Flange Option

\* Insert Material

^ Insert O-Ring Type

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

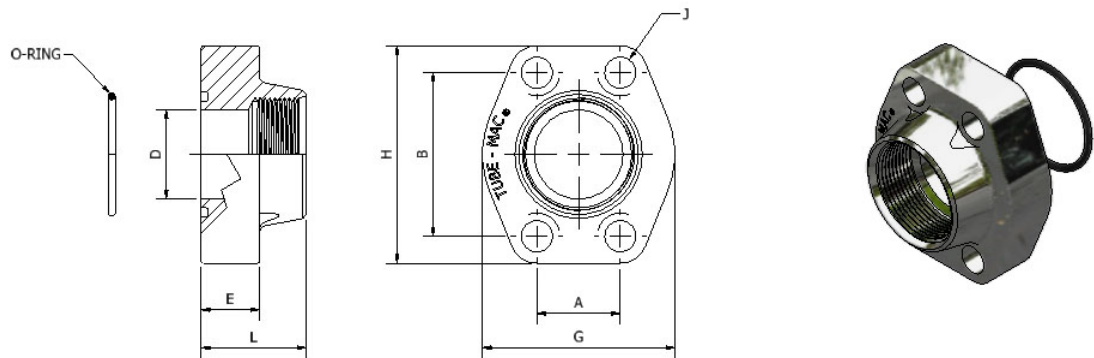
Clamp  
Supports -  
Heavy Series

Valves, Ball  
and Check

G41

# 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.

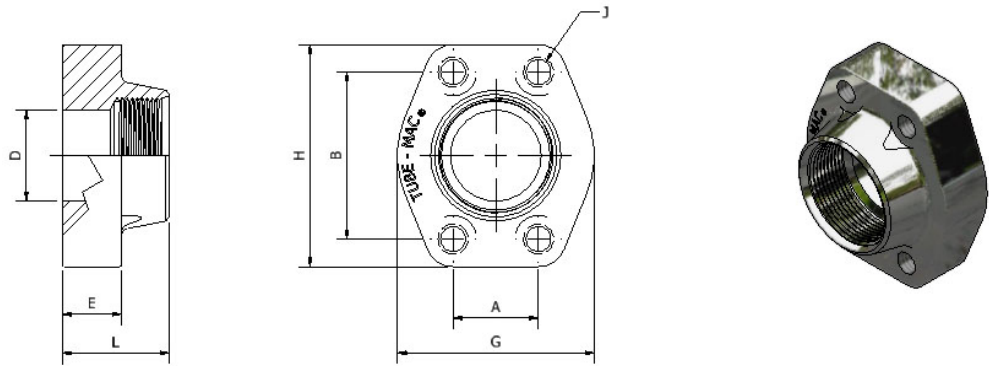
Ordering Example: SFT034-150-SS-V

\* Insert Material \_\_\_\_\_

^ Insert O-Ring Type \_\_\_\_\_

# 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.

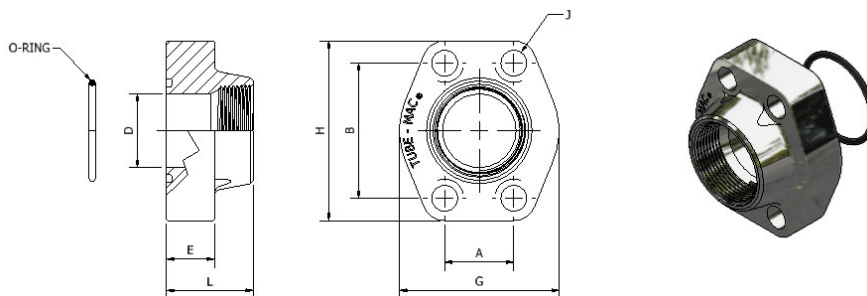
Ordering Example: STFF34-150-SS-V

\* 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<br>Part Number | Dimensions (in) |      |      |      |      |      |      | NPTF<br>Thread | Drill<br>Dia.<br>(in) J | Bolt<br>Minimum<br>Grade 8 | O-Ring<br>(Buna)<br>Part Number | WT<br>lbs (kg) | Working<br>Pressure<br>PSI (bar) | Bolt<br>Torque<br>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.

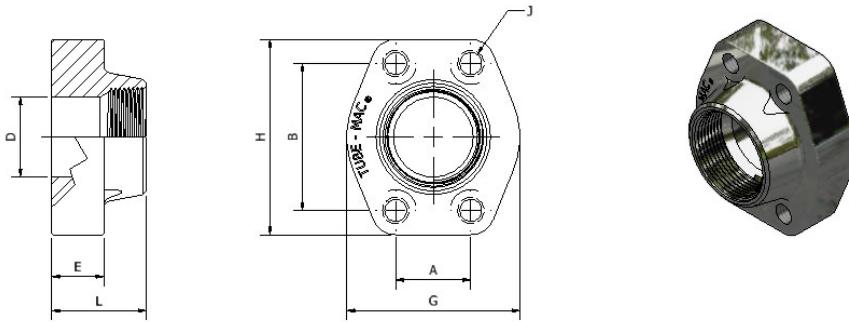
Ordering Example: NTF034-200-SS-V

\* 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

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

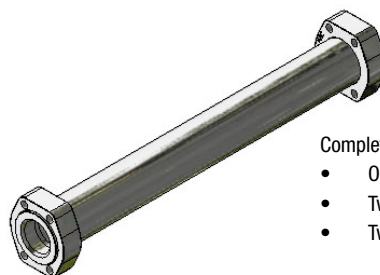
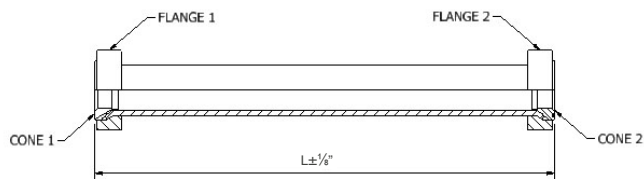
Clamp Supports - Heavy Series

Valves, Ball and Check

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 |
|----------------------------------------------------|-----------------------------------------------------------|------------------------|-----|----------------------|----------------------|----------|----------|--------|--------|--------|---------|
| <b>Bent Pipe Assembly - Flared</b>                 |                                                           | <b>PAF</b>             |     |                      |                      |          |          |        |        |        |         |
| <b>Pipe &amp; Cone Material</b><br>Carbon Steel    | <b>TMP52CD</b>                                            | 52                     |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>♦♦TMP37CD</b>                                          | 37                     |     |                      |                      |          |          |        |        |        |         |
| <b>Pipe &amp; Cone Material</b><br>Stainless Steel | <b>TMP304SS</b>                                           | 304                    |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>TMP316SS</b>                                           | 316                    |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>♦TMP2205SS</b>                                         | 2205                   |     |                      |                      |          |          |        |        |        |         |
| <b>Pipe Size &amp; Schedule</b>                    | <b>1/2"</b>                                               | SCH40-050<br>SCH80-050 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>3/4"</b>                                               | SCH40-075<br>SCH80-075 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>1"</b>                                                 | SCH40-100<br>SCH80-100 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>1-1/4"</b>                                             | SCH40-125<br>SCH80-125 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>1-1/2"</b>                                             | SCH40-150<br>SCH80-150 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>2"</b>                                                 | SCH40-200<br>SCH80-200 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>2-1/2"</b>                                             | SCH40-250<br>SCH80-250 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>3"</b>                                                 | SCH40-300<br>SCH80-300 |     |                      |                      |          |          |        |        |        |         |
| <b>Flange Type</b><br>Carbon Steel                 | <b>FFC34</b><br>SAE Code 61<br>W/Clearance Holes          | FC34                   |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>*FFT34</b><br>SAE Code 61<br>W/Tapped Holes            | FT34                   |     |                      |                      |          |          |        |        |        |         |
| <b>Cone Type</b>                                   | Cone - Flat Face                                          | CF                     |     |                      |                      |          |          |        |        |        |         |
|                                                    | Cone - 'O' Ring Face                                      | CO                     |     |                      |                      |          |          |        |        |        |         |
| <b>Length</b>                                      | L2                                                        | Specify (in.)          |     |                      |                      |          |          |        |        |        |         |
| <b>Options</b>                                     | Viton                                                     | V                      |     |                      |                      |          |          |        |        |        |         |
|                                                    | Painted (Specify)                                         | P                      |     |                      |                      |          |          |        |        |        |         |
|                                                    | Complete Stainless Steel Assembly:<br>(including flanges) | SS                     |     |                      |                      |          |          |        |        |        |         |

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

♦TMP2205SS PIPE IS ONLY AVAILABLE UPON REQUEST

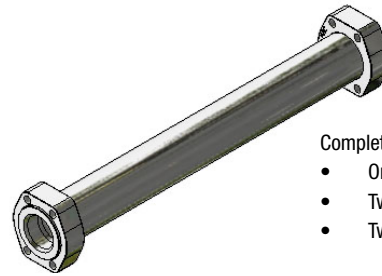
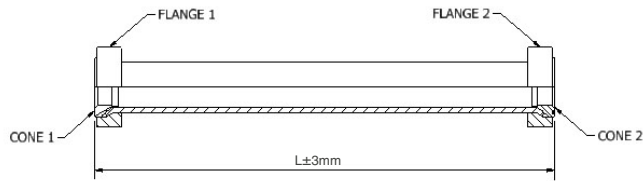
\* NORMALLY USED FOR CONNECTION TO SPLIT FLANGE TYPE ENDS

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 |
|----------------------------------------------------|-----------------------------------------------------------|--------------------------|-----|----------------------|----------------------|----------|----------|--------|--------|--------|---------|
| <b>Bent Pipe Assembly - Flared</b>                 |                                                           | <b>PAF</b>               |     |                      |                      |          |          |        |        |        |         |
| <b>Pipe &amp; Cone Material</b><br>Carbon Steel    | <b>TMP52CD</b>                                            | 52                       |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>TMP37CD</b>                                            | 37                       |     |                      |                      |          |          |        |        |        |         |
| <b>Pipe &amp; Cone Material</b><br>Stainless Steel | <b>TMP304SS</b>                                           | 304                      |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>TMP316SS</b>                                           | 316                      |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>♦TMP2205SS</b>                                         | 2205                     |     |                      |                      |          |          |        |        |        |         |
| <b>Pipe Size &amp; Schedule</b>                    | <b>1/2"</b>                                               | 20x3.0-050<br>25x3.0-050 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>3/4"</b>                                               | 25x3.0-075<br>30x3.0-075 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>1"</b>                                                 | 30x4.0-100<br>38x4.0-100 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>1-1/4"</b>                                             | 38x4.0-125<br>42x4.0-125 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>1-1/2"</b>                                             | 50x3.0-150<br>50x5.0-150 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>2"</b>                                                 | 60x3.0-200<br>60x5.0-200 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>2-1/2"</b>                                             | 73x7.0-250<br>75x5.0-250 |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>3"</b>                                                 | 75x5.0-300<br>90x5.0-300 |     |                      |                      |          |          |        |        |        |         |
| <b>Flange Type</b><br>Carbon Steel                 | <b>FFCM34</b><br>SAE Code 61<br>W/Clearance Holes         | FCM34                    |     |                      |                      |          |          |        |        |        |         |
|                                                    | <b>*FTTM34</b><br>SAE Code 61<br>W/Tapped Holes           | FTM34                    |     |                      |                      |          |          |        |        |        |         |
| <b>Cone Type</b>                                   | Cone - Flat Face                                          | CF                       |     |                      |                      |          |          |        |        |        |         |
|                                                    | Cone - 'O' Ring Face                                      | CO                       |     |                      |                      |          |          |        |        |        |         |
| <b>Length</b>                                      | L2                                                        | Specify (mm)             |     |                      |                      |          |          |        |        |        |         |
| <b>Options</b>                                     | Viton                                                     | V                        |     |                      |                      |          |          |        |        |        |         |
|                                                    | Painted (Specify)                                         | P                        |     |                      |                      |          |          |        |        |        |         |
|                                                    | Complete Stainless Steel Assembly:<br>(including flanges) | SS                       |     |                      |                      |          |          |        |        |        |         |

♦TMP2205SS PIPE IS ONLY AVAILABLE UPON REQUEST

\* NORMALLY USED FOR CONNECTION TO SPLIT FLANGE TYPE ENDS

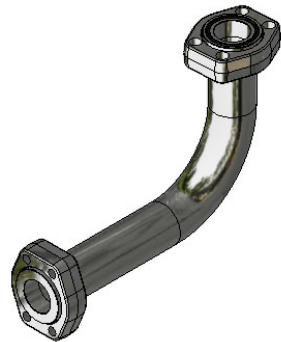
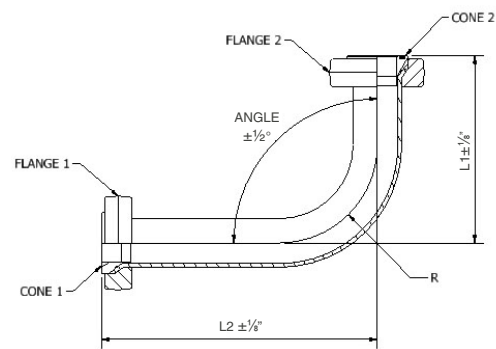
PART Number (EXAMPLE): PAF/52 - 30x4.0 - 100 - FCM34 - FCM34 - CO - CF - 6000

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 |
|----------------------------------------------------|-----------------------------------------------------------|------------------------|------|----------------------|----------------------|----------|----------|--------|--------|------|---------|-----|---------|---------|
| <b>Bent Pipe Assembly - Flared</b>                 |                                                           | <b>BPAF</b>            |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Pipe &amp; Cone Material</b><br>Carbon Steel    | <b>TMP52CD</b>                                            | 52                     |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>♦♦TMP37CD</b>                                          | 37                     |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Pipe &amp; Cone Material</b><br>Stainless Steel | <b>TMP304SS</b>                                           | 304                    |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>TMP316SS</b>                                           | 316                    |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>♦TMP2205SS</b>                                         | 2205                   |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Pipe Size &amp; Schedule</b>                    | <b>1/2"</b>                                               | SCH40-050<br>SCH80-050 |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>3/4"</b>                                               | SCH40-075<br>SCH80-075 |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>1"</b>                                                 | SCH40-100<br>SCH80-100 |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>1-1/4"</b>                                             | SCH40-125<br>SCH80-125 |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>1-1/2"</b>                                             | SCH40-150<br>SCH80-150 |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>2"</b>                                                 | SCH40-200<br>SCH80-200 |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>2-1/2"</b>                                             | SCH40-250<br>SCH80-250 |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>3"</b>                                                 | SCH40-300<br>SCH80-300 |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Flange Type</b><br>Carbon Steel                 | <b>FFC34</b><br>SAE Code 61<br>W/Clearance Holes          | FC34                   |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | <b>FFT34</b><br>SAE Code 61<br>W/Threaded Holes           | FT34                   |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Cone Type</b>                                   | Cone - Flat Face                                          | CF                     |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | Cone - 'O' Ring Face                                      | CO                     |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Radius</b>                                      | Field Manufactured                                        | R1                     |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | Factory Manufactured                                      | R2                     |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Length</b>                                      | L1                                                        | Specify (in.)          |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Angle</b>                                       | Max 90°                                                   | Specify (°)            |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Length</b>                                      | L2                                                        | Specify (in.)          |      |                      |                      |          |          |        |        |      |         |     |         |         |
| <b>Options</b>                                     | Viton                                                     | V                      |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | Painted (Specify)                                         | P                      |      |                      |                      |          |          |        |        |      |         |     |         |         |
|                                                    | Complete Stainless Steel Assembly:<br>(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

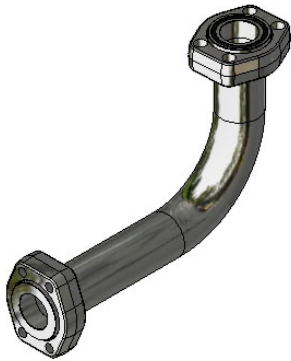
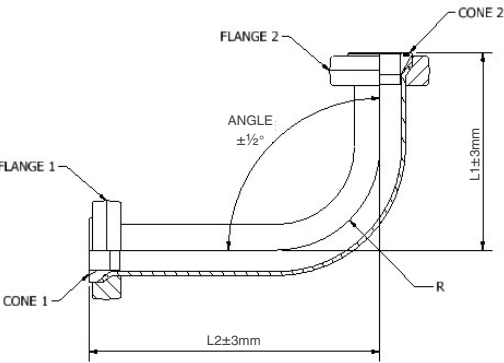
ASSEMBLY WORKING PRESSURE RATINGS ARE SUBJECT TO THE LESSER OF THE FLANGE OR PIPE RATINGS

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

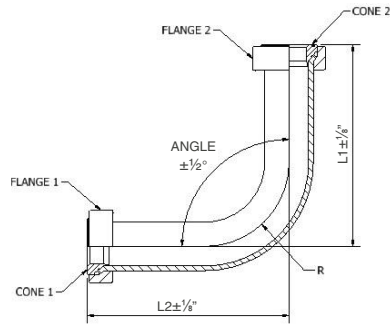
ASSEMBLY WORKING PRESSURE RATINGS ARE SUBJECT TO THE LESSER OF THE FLANGE OR PIPE RATINGS

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

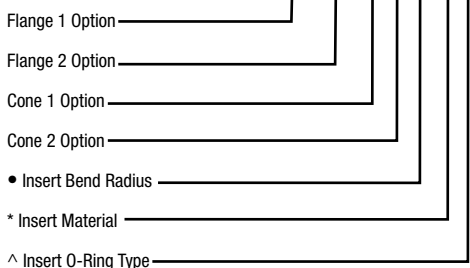
#### \* Materials

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

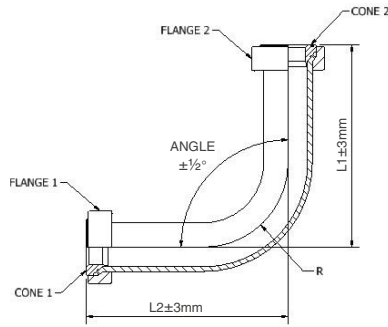


3D step models available upon request

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

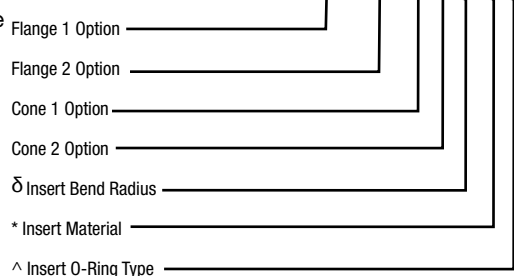
#### \* Materials

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

#### ^ O-Ring Type:

No Designation = Buna Nitrile.  
V = Viton

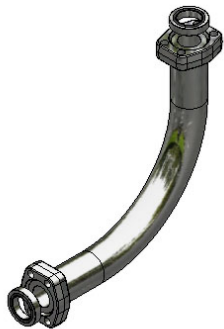
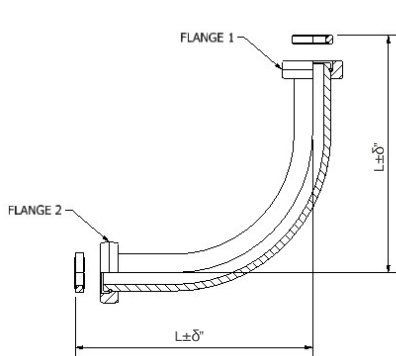
Ordering Example: A/FFEM-60x5.0-200-FCM34-FCM34-CO-CO-R1-SS-V



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:**

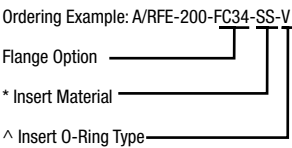
FC34 = SAE 3000 PSI Code 61 (ISO 6162-1) Clearance  
 FT34 = SAE 3000 PSI Code 61 (ISO 6162-1) UNC Threaded  
 FTM34 = SAE 3000 PSI Code 61 (ISO 6162-1) Metric Threaded

**\*Materials:**

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

**^ O-Ring Type:**

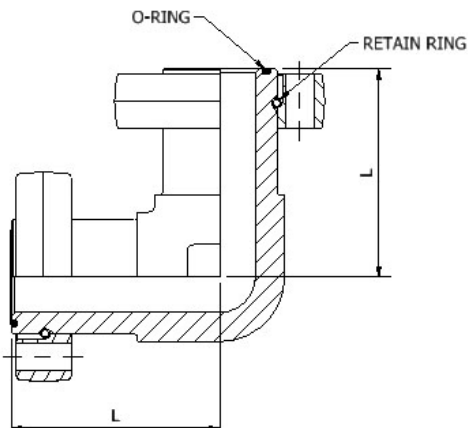
No Designation = Buna Nitrile.  
 V = Viton.



# 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

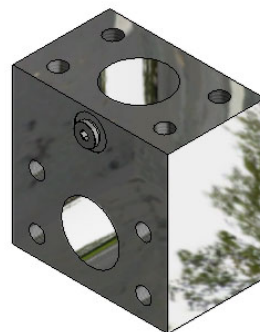
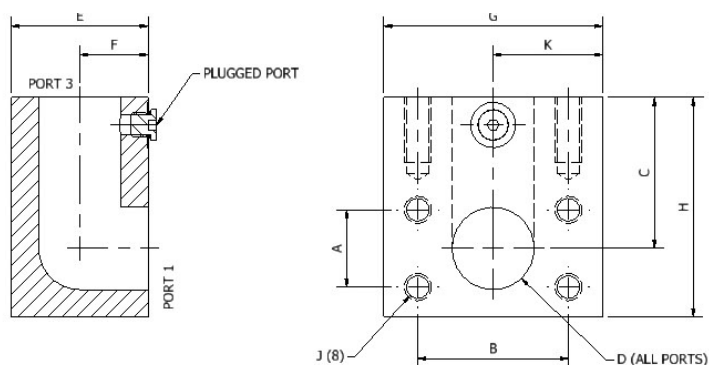
Flange Option

\* Insert Material

^ Insert O-Ring Type

# 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:

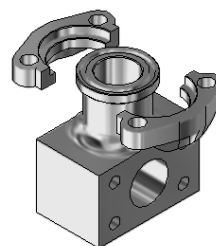
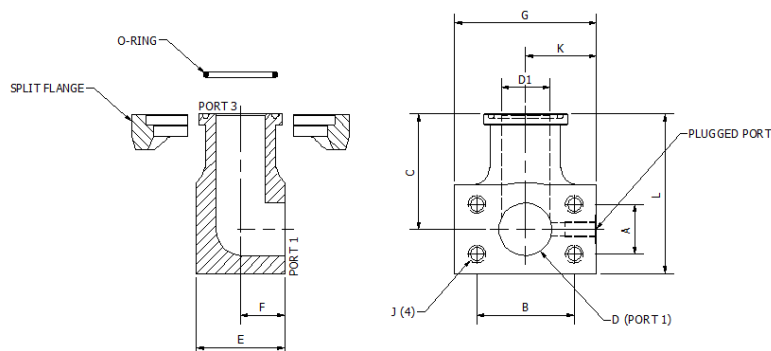
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.  
SS = Stainless Steel, Type 316.

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

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

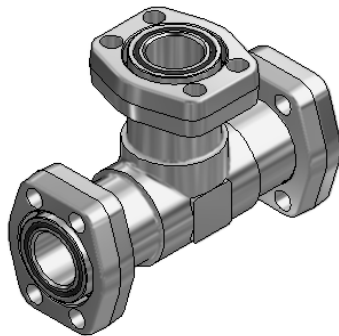
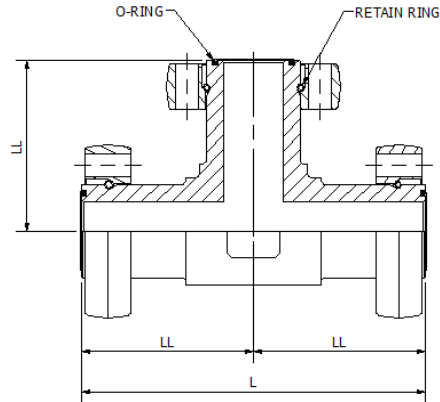
Valves, Ball and Check

G57

# 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.

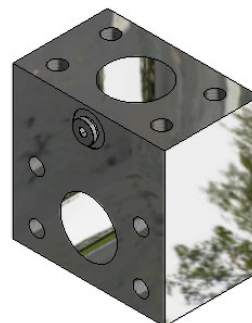
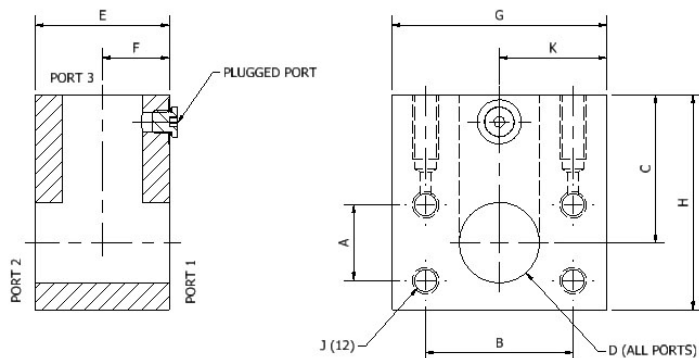
**^ O-Ring Type:**

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.

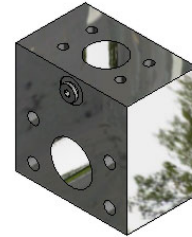
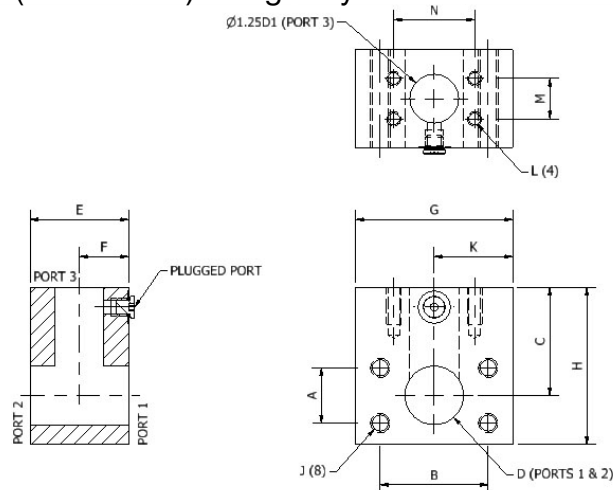
SS = Stainless Steel, Type 316.

Ordering Example: BT34-200-SS

\* Insert Material

# 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<br>(run x<br>branch) | Tee<br>Part Number | Dimensions (in) |      |      |      |      |      |      |      |      |      |      |      | Thread 1<br>UNC-2B | Thread 2<br>UNC-2B | WT<br>lbs (kg) | Working<br>Pressure<br>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.

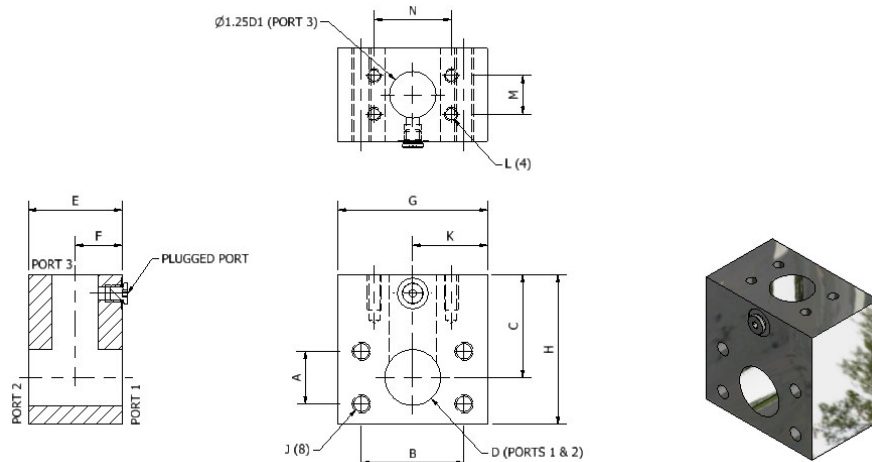
SS = Stainless Steel, Type 316.

Ordering Example: BTR34-200x050-SS

\* Insert Material

# 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<br>(run x<br>branch) | Block Tee<br>Part Number | Dimensions (mm) |       |      |      |      |       |      |       |       |      |      |      | Thread 1   | Thread 2   | WT<br>lbs (kg) | Working<br>Pressure<br>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.

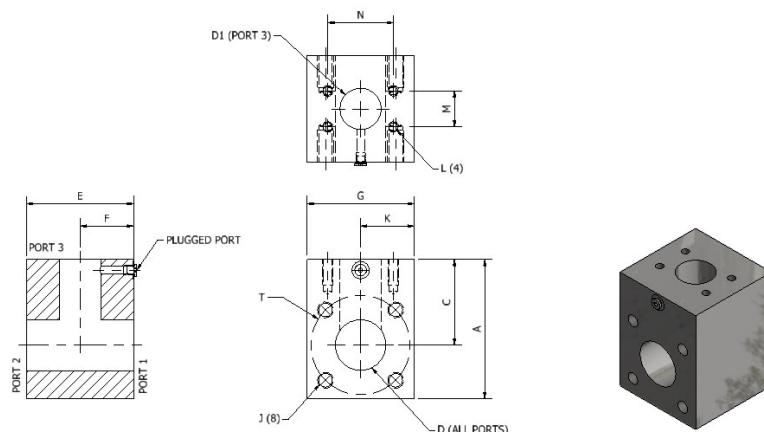
3D step models available upon request

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<br>(run x<br>branch) | Block Tee<br>Part Number | Dimensions (in) |      |      |      |      |      |      |      |      |      |      | Thread 1<br>UNC-2B | Thread 2<br>UNC-2B | WT<br>lbs (kg) | Working<br>Pressure<br>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<br>(run x<br>branch) | Block Tee<br>Part Number | Dimensions (mm) |       |      |      |       |      |       |       |      |      |      | Thread 1   | Thread 2   | WT<br>lbs (kg) | Working<br>Pressure<br>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.

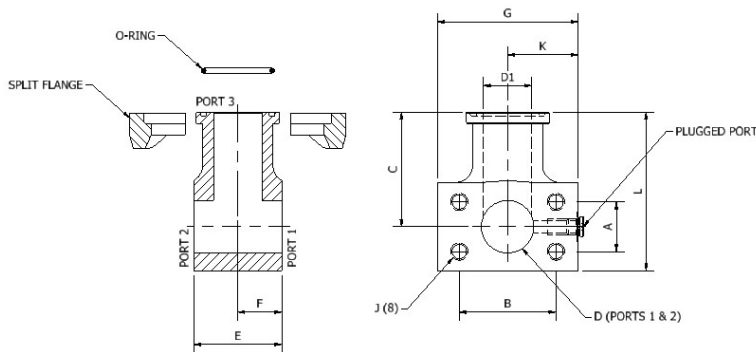
Ordering Example: BTR7-34-250x200-SS

\* 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 \_\_\_\_\_

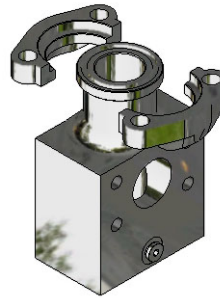
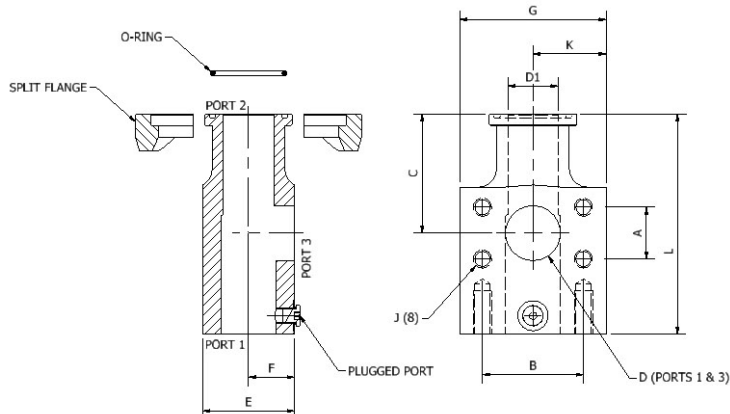
^ Insert O-Ring Type \_\_\_\_\_

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 \_\_\_\_\_

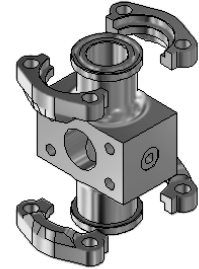
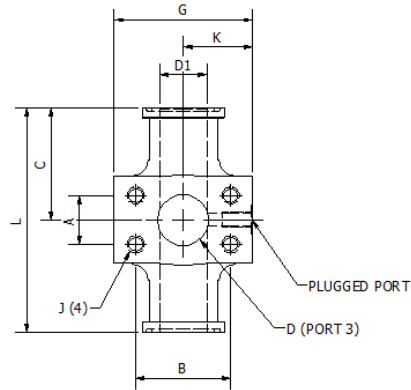
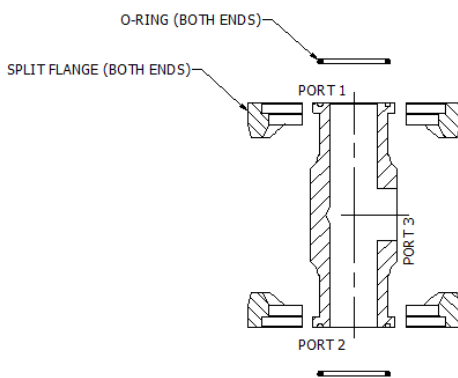
# SAE 3000 PSI Split Flange Tee

## 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

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

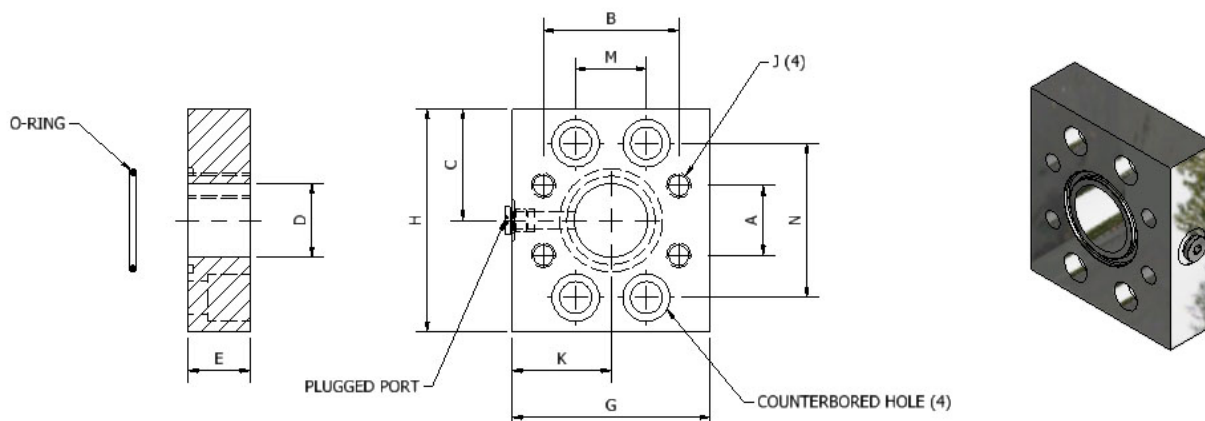
Clamp Supports - Heavy Series

Valves, Ball and Check

G65

# 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.

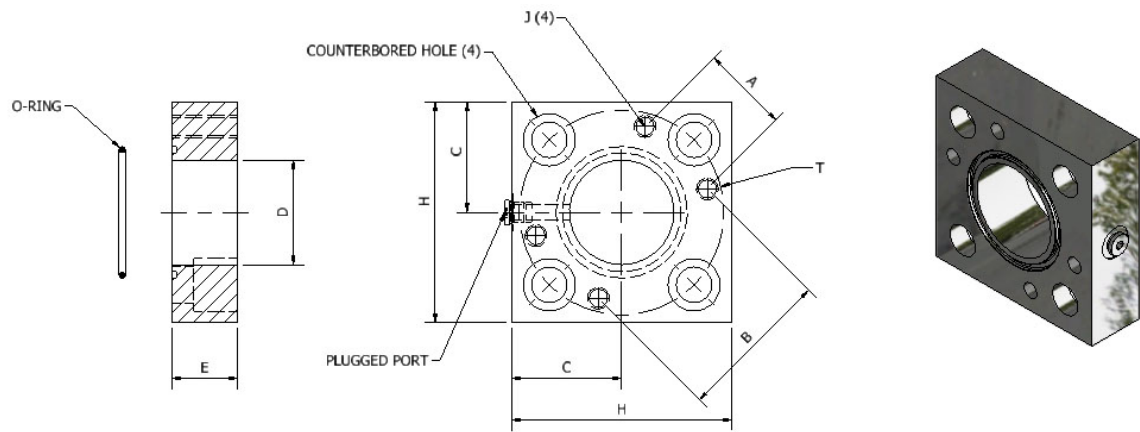
Ordering Example: TP06-34-200-SS-V

\* 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.

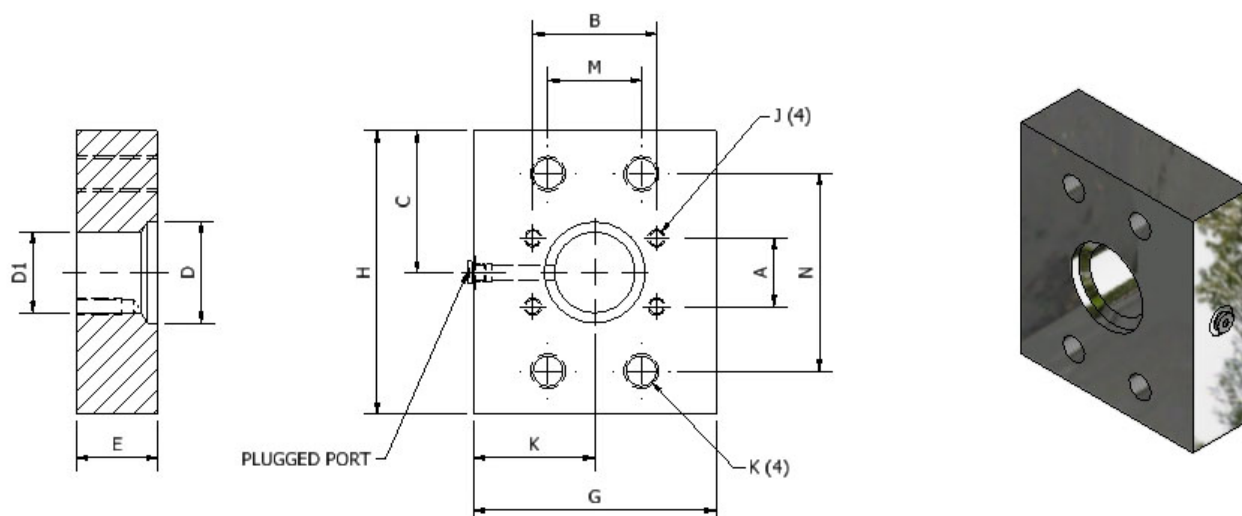
**^ O-Ring Type:**  
Standard, No Designation = Buna Nitrile.  
V = Viton.

Ordering Example: TP07-34-250-SS-V  
\* Insert Material \_\_\_\_\_  
^ Insert O-Ring Type \_\_\_\_\_

3D step models available upon request

# 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<br>(SAE Code 62 x<br>SAE Code 61) | Reducer<br>Part Number | Dimensions (in) |      |      |      |      |      |      |      |      |      |      | Thread 1<br>UNC-2B | Thread 2<br>UNC-2B | WT<br>lbs (kg) | Working<br>Pressure<br>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<br>(ISO 6162-2 x<br>ISO 6162-1) | Reducer<br>Part Number | Dimensions (mm) |      |      |      |      |      |       |       |      |      |      | Thread 1   | Thread 2   | WT<br>lbs (kg) | Working<br>Pressure<br>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:

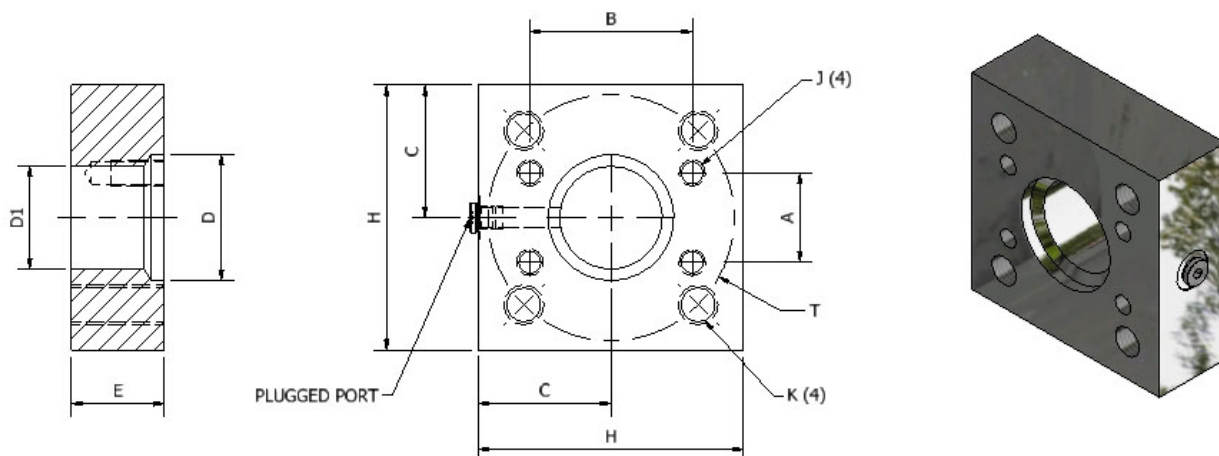
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.  
SS = Stainless Steel, Type 316.

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<br>(ISO 6164 x<br>SAE Code 61) | Reducer<br>Part Number | Dimensions (in) |      |      |      |      |      |      |      | Thread 1<br>UNC-2B | Thread 2<br>UNC-2B | WT<br>lbs (kg) | Working<br>Pressure<br>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<br>(ISO 6164 x<br>ISO 6162-1) | Reducer<br>Part Number | Dimensions (mm) |      |       |      |      |      |      |       | Thread<br>1 | Thread<br>2 | WT<br>lbs (kg) | Working<br>Pressure<br>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

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

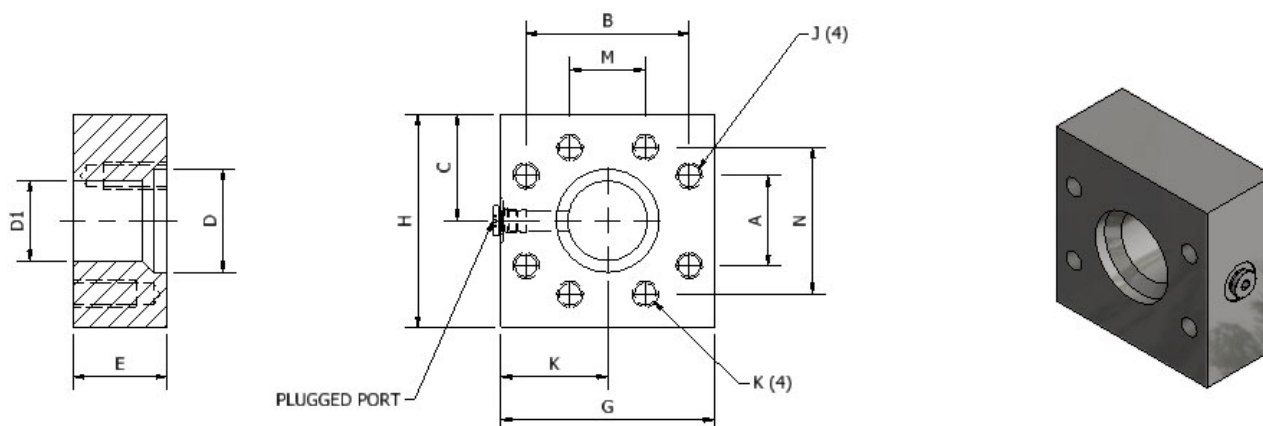
Clamp  
Supports -  
Heavy Series

Valves, Ball  
and Check

G69

# 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<br>UNC-2B | Thread 2<br>UNC-2B | WT<br>lbs (kg) | Working<br>Pressure<br>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:

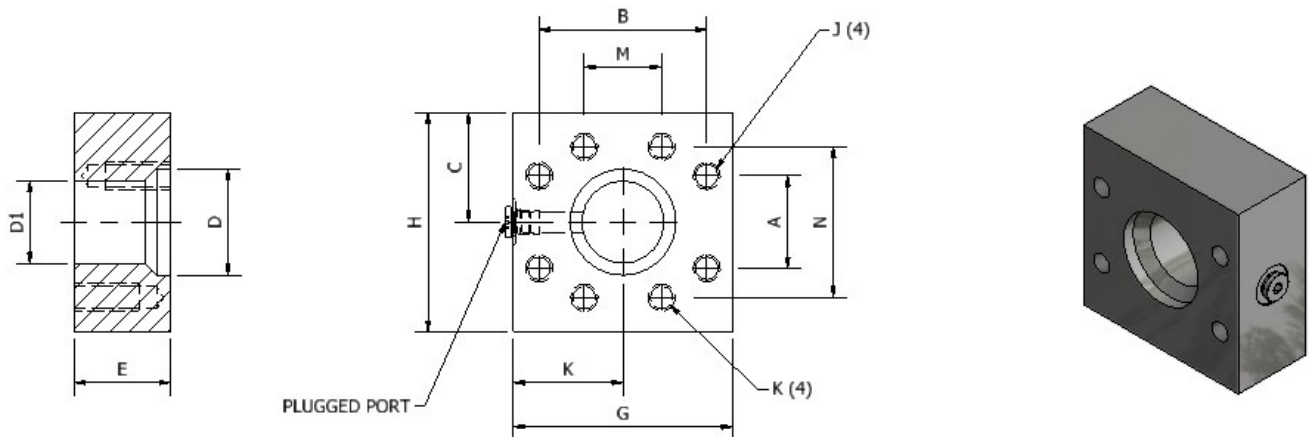
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.  
SS = Stainless Steel, Type 316.

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:

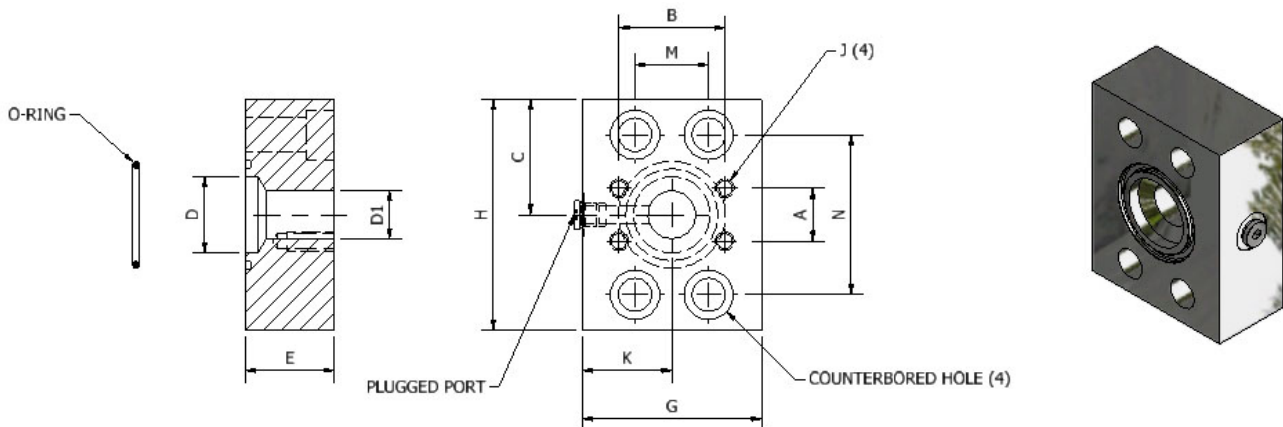
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.  
SS = Stainless Steel, Type 316.

Ordering Example: TPRM34-200x125-SS

\* Insert Material \_\_\_\_\_

# 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<br>(SAE Code<br>62 x SAE<br>Code 61) | Reducer<br>Part Number | Dimensions (in) |      |      |      |      |      |      |      |      |      |      | C'T<br>Bore<br>Bolt | Thread<br>UNC-2B | O-Ring<br>(Buna)<br>Part<br>Number | WT<br>lbs (kg) | Working<br>Pressure<br>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<br>(ISO 6162-2 x<br>ISO 6162-1) | Reducer<br>Part Number | Dimensions (mm) |      |      |      |      |      |       |       |      |      |      | C'T<br>Bore<br>Bolt | Thread     | O-Ring<br>(Buna)<br>Part<br>Number | WT<br>lbs (kg) | Working<br>Pressure<br>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

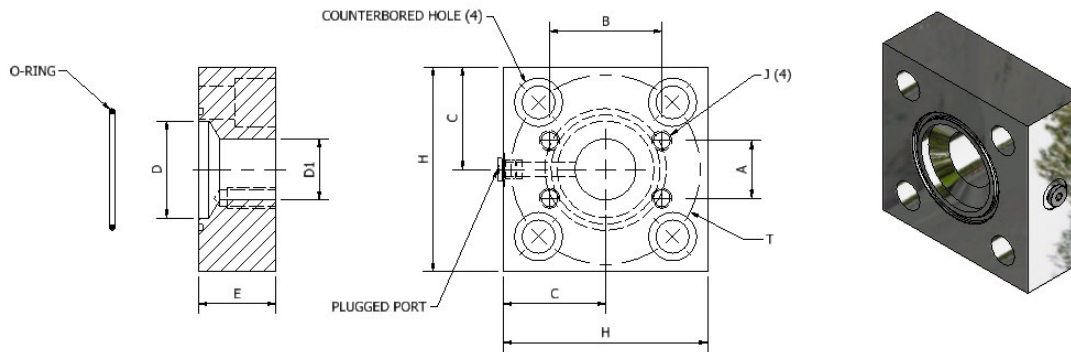
\* Insert Material \_\_\_\_\_

^ 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<br>(ISO 6164 x<br>SAE Code 61) | Reducer<br>Part Number | Dimensions (in) |      |      |      |      |      |      |      | C'T<br>Bore<br>Bolt | Thread<br>UNC-2B | O-Ring<br>(Buna)<br>Part<br>Number | WT<br>lbs (kg) | Working<br>Pressure<br>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<br>(ISO 6164 x<br>6162-1) | Reducer<br>Part Number | Dimensions (mm) |      |       |      |      |      |      |       | C'T<br>Bore<br>Bolt | Thread     | O-Ring<br>(Buna)<br>Part<br>Number | WT<br>lbs (kg) | Working<br>Pressure<br>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

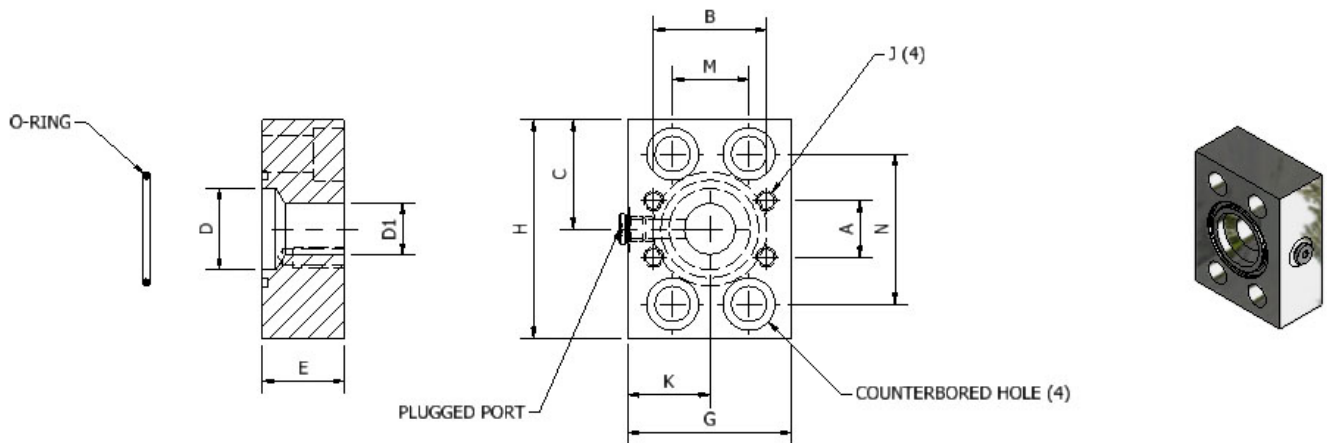
\* Insert Material

^ Insert O-Ring Type

3D step models available upon request

# 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.

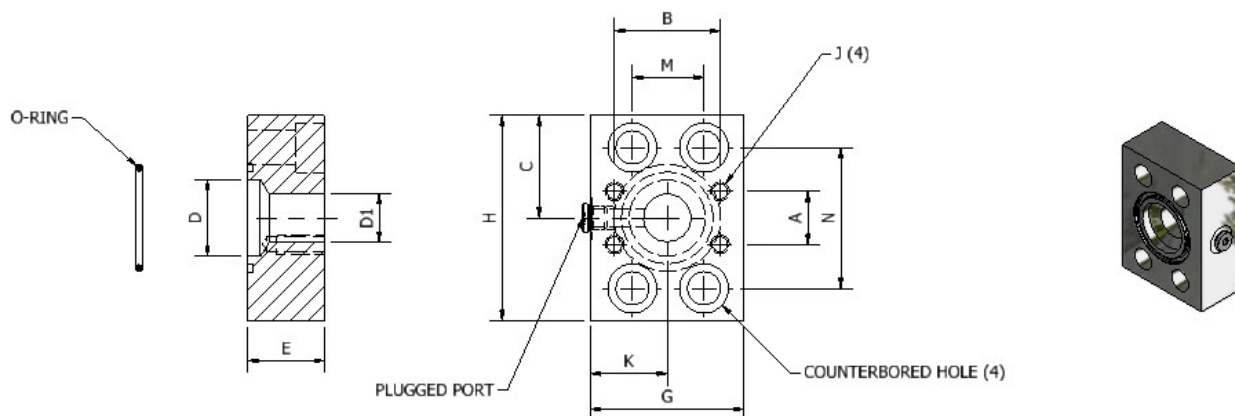
Ordering Example: TPRO34-200x150-SS-V

\* 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

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

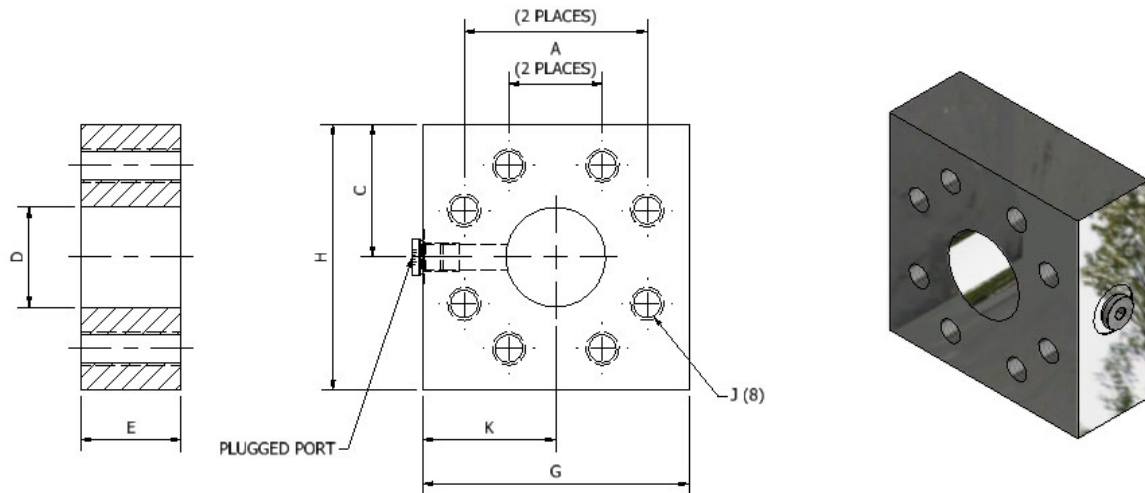
Clamp Supports - Heavy Series

Valves, Ball and Check

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:

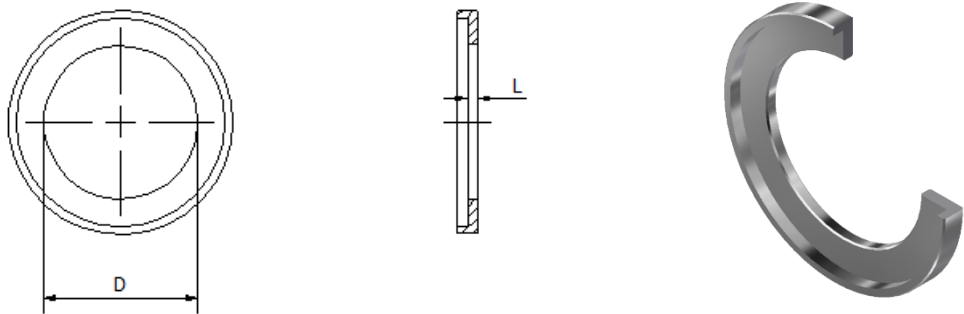
Standard, No Designation = All Carbon Steel, Zinc Nickel Plated.  
SS = Stainless Steel, Type 316.

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) |

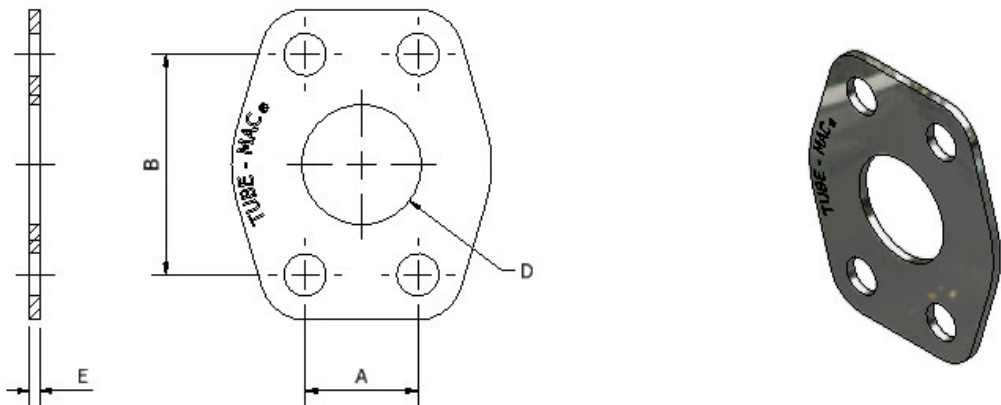
**\* Materials:** Standard, No Designation = Carbon Steel, Zinc Nickel Plated.  
SS = Stainless Steel, Type 316.

Ordering Example: OCP-200-SS  
\* Insert Material \_\_\_\_\_

3D step models available upon request

# SAE 3000 PSI Connector Plate

SAE J518 Code 61 (ISO 6162-1)

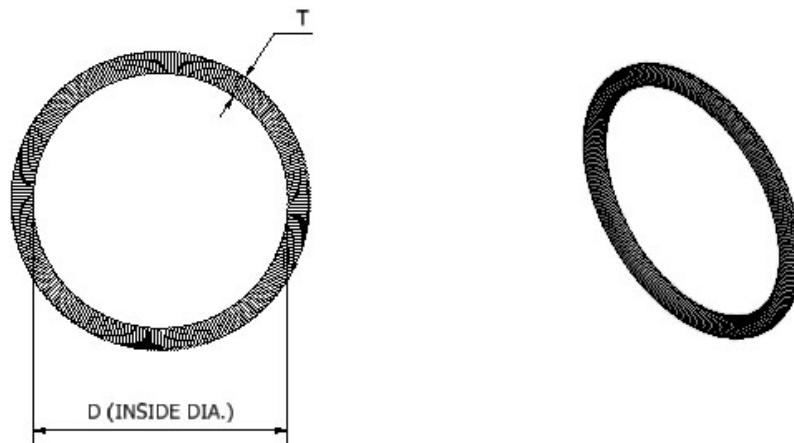


| CP - Connector Plate |             |                       |              |              |             |                |
|----------------------|-------------|-----------------------|--------------|--------------|-------------|----------------|
| Size                 | Part Number | Dimensions<br>in (mm) |              |              |             | WT<br>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

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

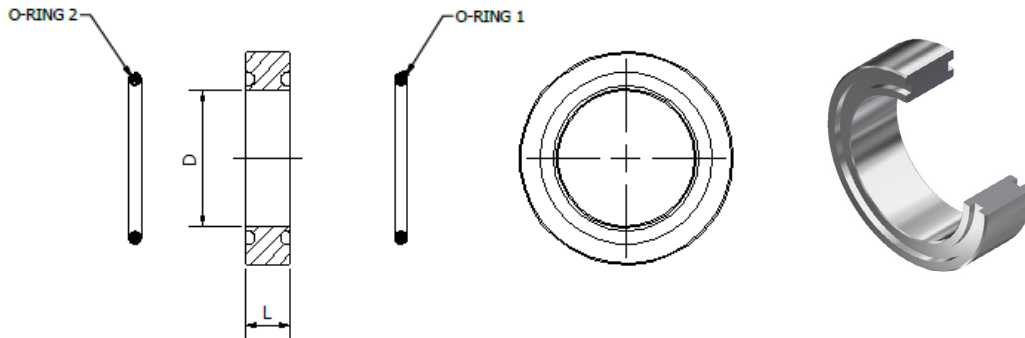
Clamp Supports - Heavy Series

Valves, Ball and Check

G79

# 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<br>in (mm) |             | O-Rings<br>1&2<br>(Buna)<br>Part Number | WT<br>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<br>in (mm) |             | O-Rings<br>1&2<br>(Buna)<br>Part Number | WT<br>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

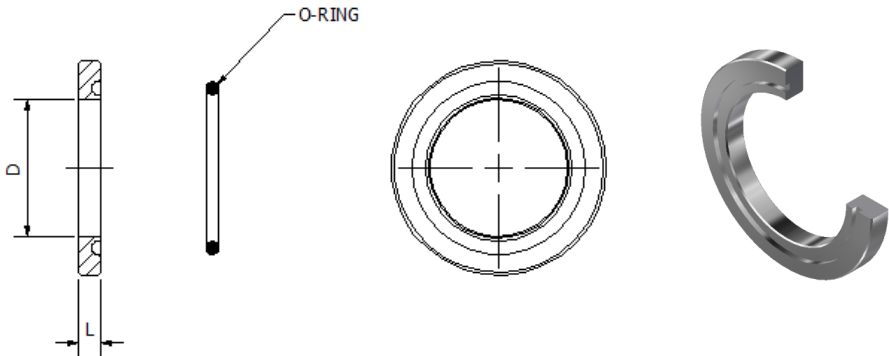
\* Insert Material

^ 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.

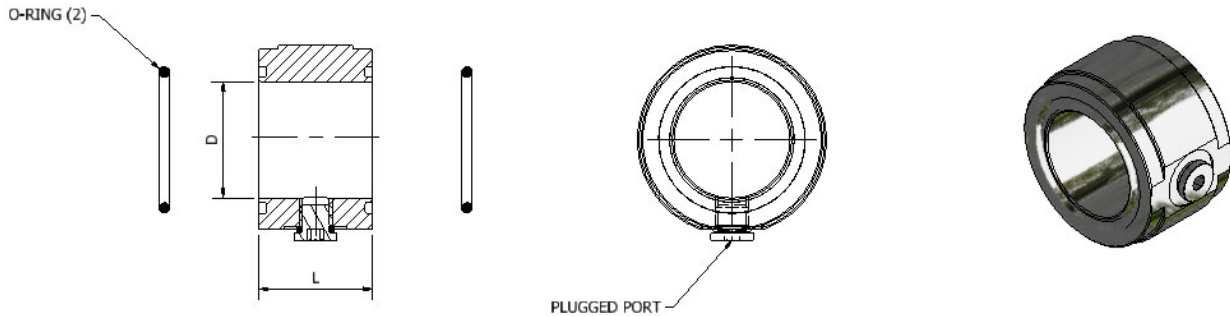
Ordering Example: OSH-200-SS-V

\* 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.

### ^ O-Ring Type:

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

Ordering Example: OSP-200-SS-V

\* Insert Material

^ Insert O-Ring Type

## 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.

### ^ O-Ring Type:

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

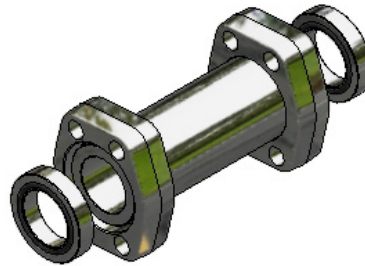
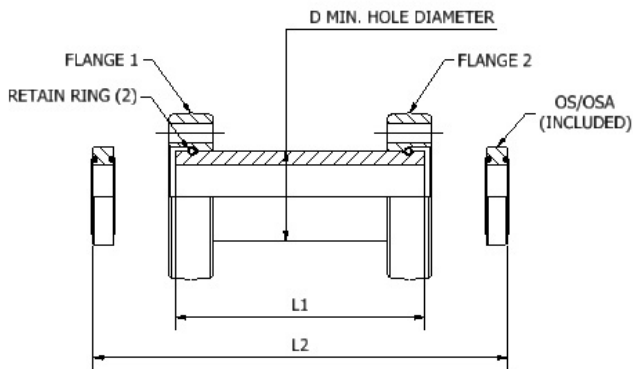
Ordering Example: OSPM-200-SS-V

\* Insert Material

^ Insert O-Ring Type

# 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

Flange 1 Option \_\_\_\_\_

Flange 2 Option \_\_\_\_\_

\* Insert Material \_\_\_\_\_

^ Insert O-Ring Type \_\_\_\_\_

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

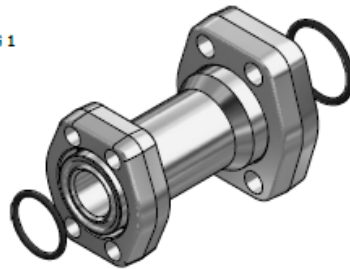
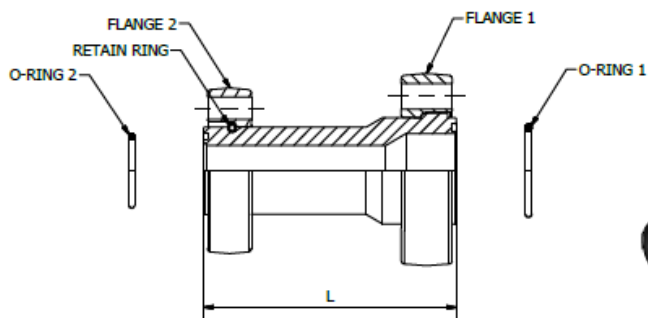
Clamp Supports - Heavy Series

Valves, Ball and Check

G83

# 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

Flange 1 Option \_\_\_\_\_

Flange 2 Option \_\_\_\_\_

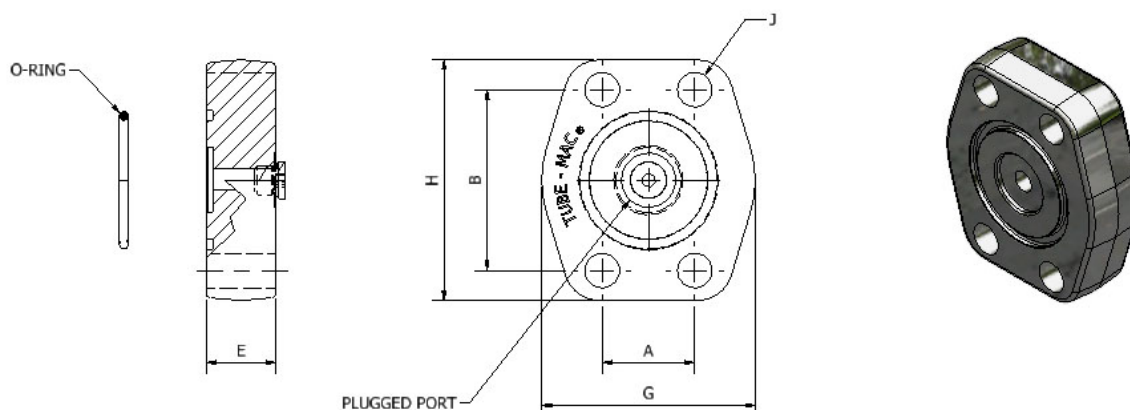
\* Insert Material \_\_\_\_\_

^ Insert O-Ring Type \_\_\_\_\_

# SAE 3000 PSI Blanking Flange

## O-Ring Face with Clearance Holes

SAE J518 Code 61 (ISO 6162-1)



### BFO34 – 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

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

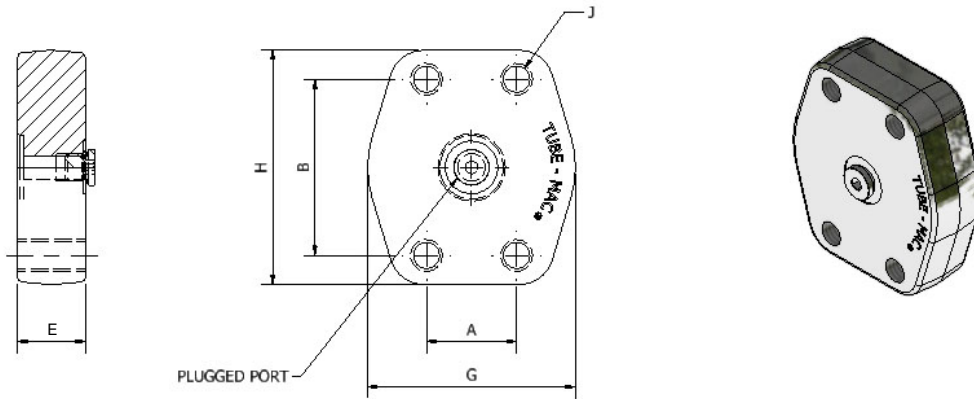
Valves, Ball and Check

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

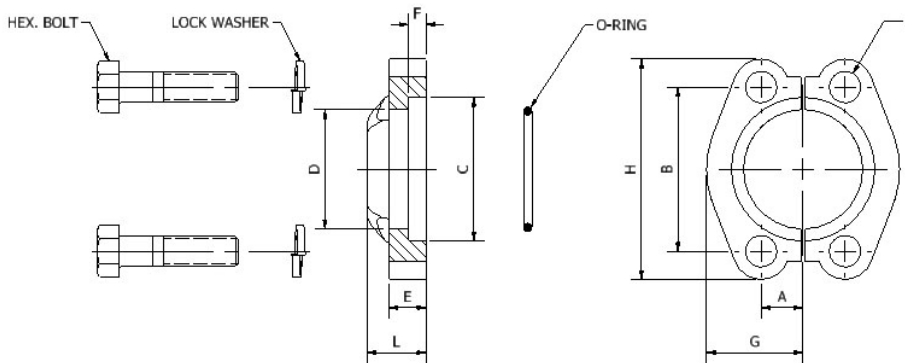
\* Insert Material

# 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

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

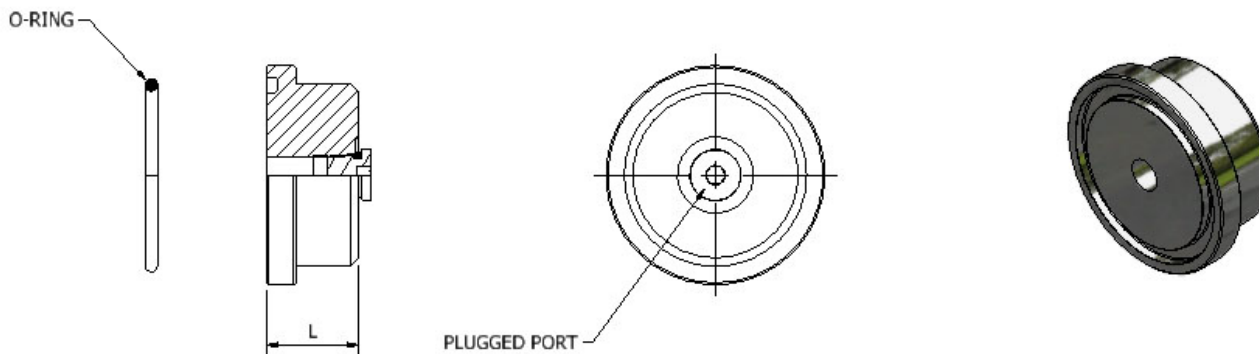
Clamp Supports - Heavy Series

Valves, Ball and Check

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# 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.

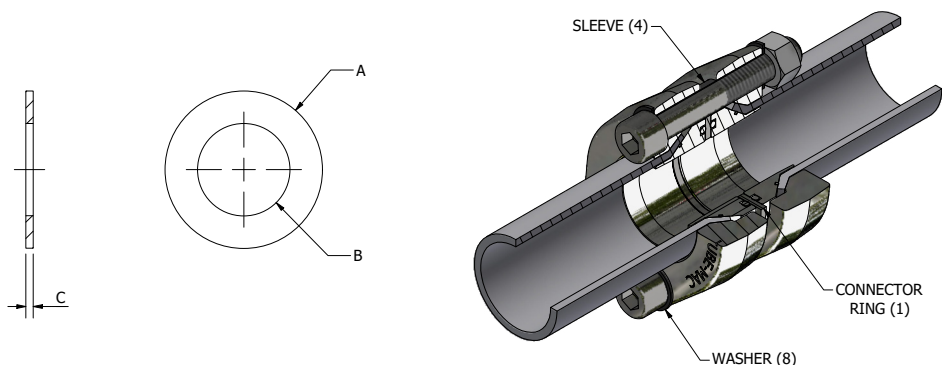
V = Viton.

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)



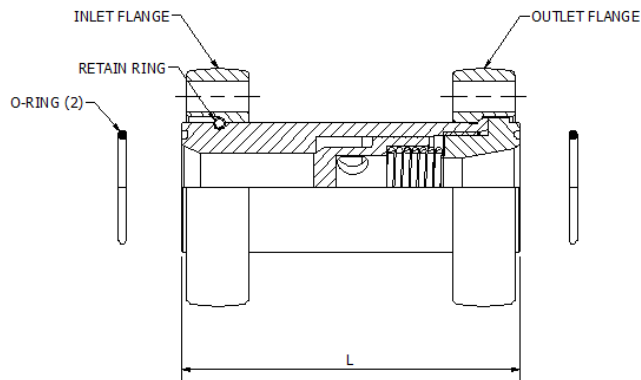
- Complete Set Includes:
- One (1) Non-Conductive Plate
  - Four (4) Sleeves for Bolts
  - Eight (8) Washers for Bolts

| NCCR – Non-Conductive Connector Plate |             |                    |              |             |                |
|---------------------------------------|-------------|--------------------|--------------|-------------|----------------|
| Size                                  | Part Number | Dimensions in (mm) |              |             | WT<br>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

# 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)

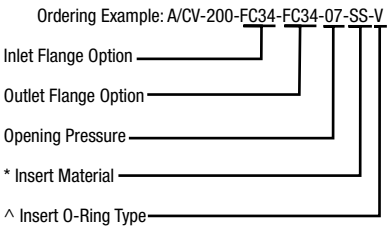
| CV Check Valve<br>Complete with Buna O-Rings (Standard) |                                  |                       |                                   |                            |                          |                             |                                  |
|---------------------------------------------------------|----------------------------------|-----------------------|-----------------------------------|----------------------------|--------------------------|-----------------------------|----------------------------------|
| Size                                                    | Complete Assembly<br>Part Number | Dimensions<br>in (mm) | O-Ring 1<br>(Buna)<br>Part Number | Assembly<br>WT<br>lbs (kg) | Body Only<br>Part Number | Body Only<br>WT<br>lbs (kg) | Working<br>Pressure<br>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)  |

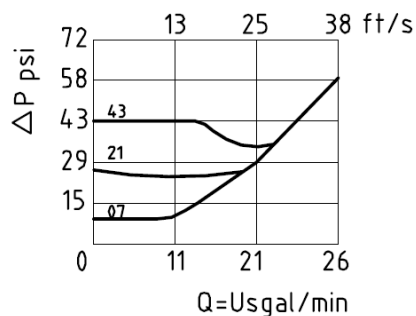


# SAE 3000 PSI Check Valve Retain Ring Flange Style

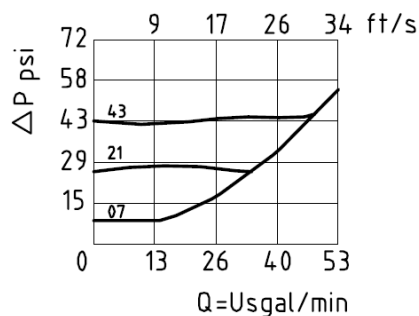
SAE J518 Code 61 (ISO 6162-1)

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

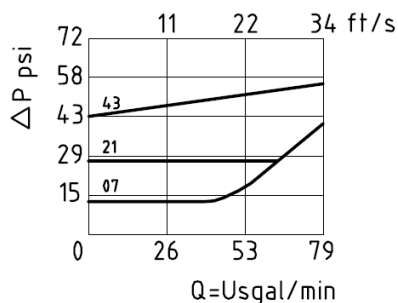
**3/4"**



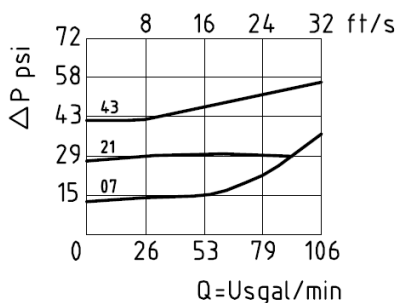
**1"**



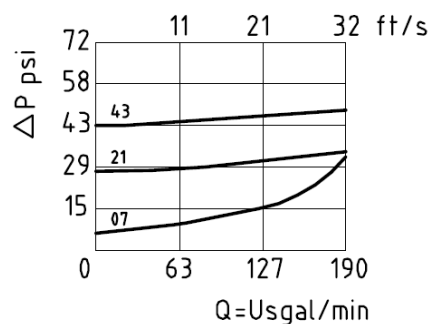
**1-1/4"**



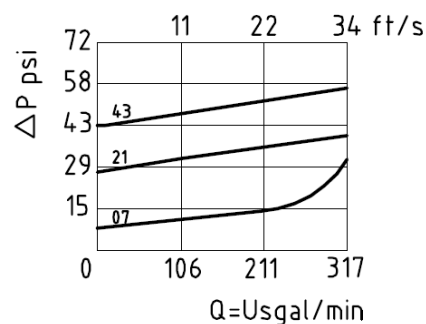
**1-1/2"**



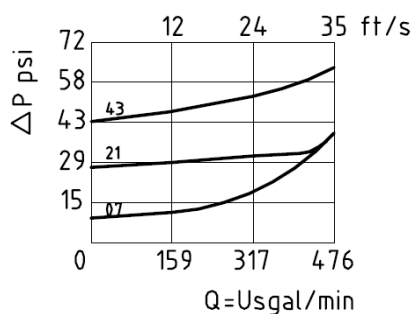
**2"**



**2-1/2"**



**3"**



3D step models available upon request

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

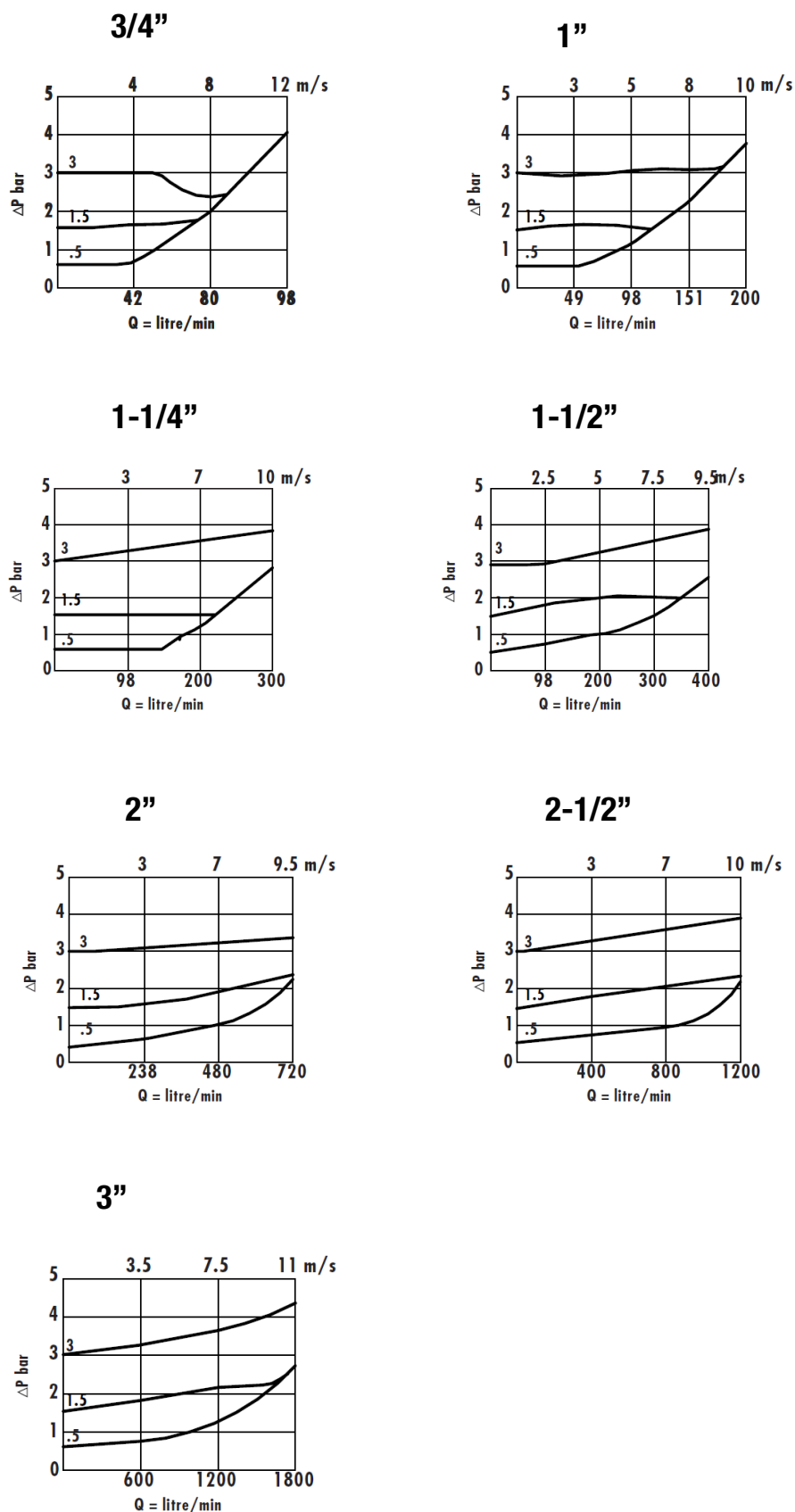
Valves, Ball  
and Check

G91

# 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

## Notes

SAE 3000,  
210 bar