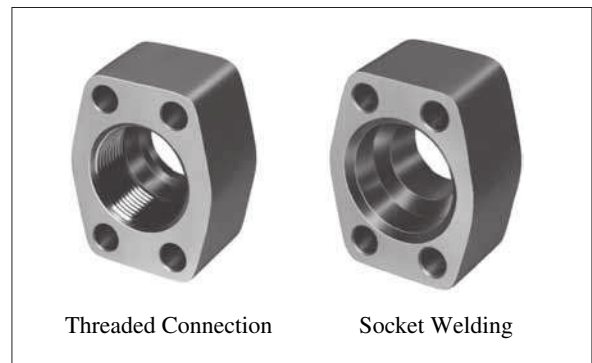


“F6” Series Pipe Flange Kits

The dimensions of the flange mounting surface are based upon SAE 4 Bolt Split Flange (High Pressure Series).

Specifications

| Model Numbers | Max. Operating Pressure MPa (PSI) | Remarks |
|----------------------|-----------------------------------|---------------------|
| F6-*A-*-10/1080/1090 | 31 (4500) | Threaded Connection |
| F6-*-B-*-10/1090 | 42 (6090) | Pipe Socket Welding |



Model Number Designation

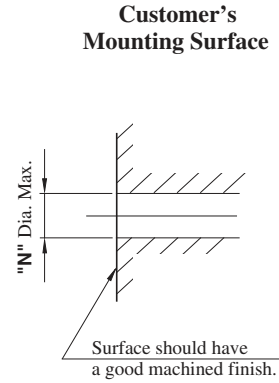
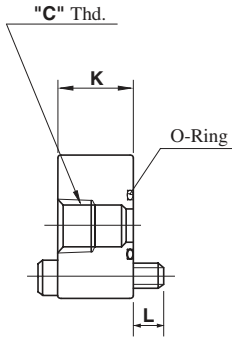
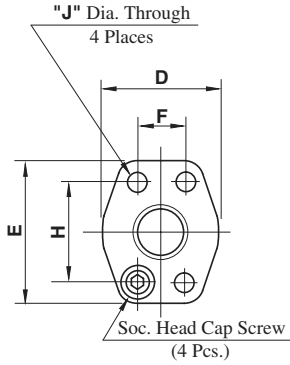
| F- | F6 | -06 | -A | -M | -10 | * | | |
|--|---------------|---|------------------------------|------------------------------|---------------|---------------------------------------|----|---|
| Material of Seal | Series Number | Flange Size | Type of Pipe Connection | Type of Mounting Bolt | Design Number | Design Standards | | |
| None: Standard NBR (Buna N) Seal F: FPM (Viton) Seal (For Synthetic Fluids) | F6 | 04W, 04 06W, 06 08W, 08 10W, 10 12W, 12 | A: Threaded Connection | M: Metric Thd. | 10 | None: Japanese Standard "JIS" | | |
| | | 04W, 04 06W, 06 08W, 08 10W, 10 12W, 12 | | M: Metric Thd. | | 80: European Design Standard | | |
| | | 04W, 04 06W, 06 08W, 08 10W, 10 12W, 12 | | U: Unified Thd. | | 90: N. American Design Standard | | |
| | | 04W, 04 06W, 06 08W, 08 10W, 10 12W, 12 | | B: Pipe Socket Welding | | M: Metric Thd. | 10 | None: Japanese Standard "JIS" & European Design Standard |
| | | 04W, 04 06W, 06 08W, 08 10W, 10 12W, 12 | | | | U: Unified Thd. | | 90: N. American Design Standard |

★ Three different design standards are available as shown below. Select the suitable design standard to your requirement.

| Type of Pipe Connection | Design Standard | Pipe Thread | Mounting Bolt (Socket Head Cap Screw) |
|-------------------------|--|-------------|---------------------------------------|
| Threaded Connection | Japanese Standard "JIS" | Rc | Metric Thd. |
| | European Design Standard | BSP.F | Metric Thd. |
| | N. American Design Standard | NPT | Unified Thd. |
| Pipe Socket Welding | Japanese Standard "JIS" & European Design Standard | — | Metric Thd. |
| | N. American Design Standard | — | Unified Thd. |

■ Threaded Connection

Japanese Standard "JIS" : F6-***-A-M-10
 N. American Design Standard : F6-***-A-U-1090



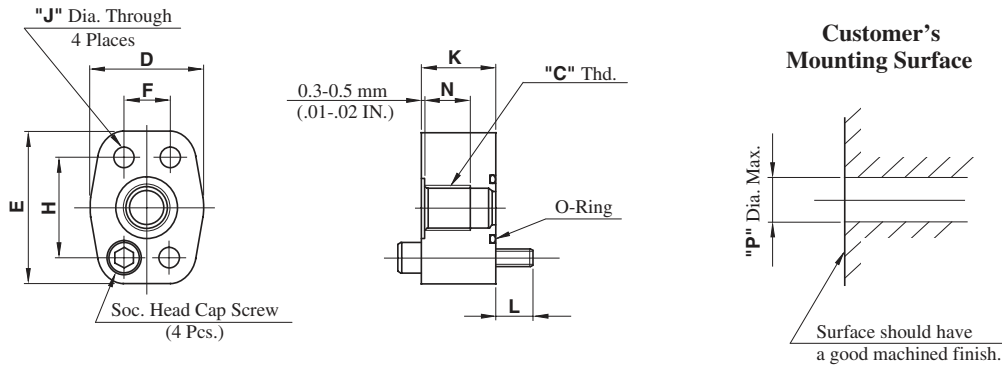
| Kit Numbers | Piping Size "C" Thd. | Dimensions mm (Inches) | | | | | | | | Socket Head Cap Screw (4 Pcs.) | O-Ring | Approx. ^{*1} Mass kg (lbs.) | Recommended ^{*2} Tightening Torque (Tolerance ±10%) Nm (IN.lbs.) |
|-----------------|----------------------|------------------------|----------------|-----------------|-----------------|----------------|----------------|----------------------|--------------|--------------------------------|-----------|--------------------------------------|---|
| | | D | E | F | H | J | K | L | N | | | | |
| F6-04W-A-M-10 | Rc 3/8 | 48 (1.89) | 56.5 (2.22) | 18.2 (.717) | 40.5 (1.594) | 8.8 (.346) | 28 (1.10) | 12 (.47) | 15 (.59) | M8 × 40 Lg | SO-NB-P22 | 0.4 (.9) | 35 (310) |
| F6-04-A-M-10 | Rc 1/2 | | | | | | | | | | | | |
| F6-04W-A-U-1090 | 3/8 NPT | | | | | | 26 (1.02) | 12.1 (.48) | | 5/16-18UNC × 1-1/2 Lg | | | |
| F6-04-A-U-1090 | 1/2 NPT | | | | | | | | | | | | |
| F6-06W-A-M-10 | Rc 1/2 | 57.5 (2.26) | 77.5 (3.05) | 23.8 (.937) | 50.8 (2.000) | 11 (.433) | 30 | 15 (.59) | 21 (.83) | M10 × 45 Lg | SO-NB-G30 | 0.9 (2.0) | 68.5 (606) |
| F6-06-A-M-10 | Rc 3/4 | | | | | | | | | | | | |
| F6-06W-A-U-1090 | 1/2 NPT | | | | | | 14.5 (.57) | 3/8-16UNC × 1-3/4 Lg | | | | | |
| F6-06-A-U-1090 | 3/4 NPT | | | | | | | | | | | | |
| F6-08W-A-M-10 | Rc 3/4 | 65 (2.56) | 81 (3.19) | 27.8 (1.094) | 57.2 (2.252) | 13.5 (.531) | 30 (1.18) | 15 (.59) | 26 (1.02) | M12 × 45 Lg. | SO-NB-G35 | 1.1 (2.4) | 118 (1044) |
| F6-08-A-M-10 | Rc 1 | | | | | | | | | | | | |
| F6-08W-A-U-1090 | 3/4 NPT | | | | | | 26.5 (1.04) | 18 (.71) | | 7/16-14UNC × 1-3/4 Lg. | | | |
| F6-08-A-U-1090 | 1 NPT | | | | | | 34 (1.34) | 16.8 (.66) | | 7/16-14UNC × 2 Lg. | | | |
| F6-10W-A-M-10 | Rc 1 | 72 (2.83) | 95 (3.74) | 31.8 (1.252) | 66.7 (2.626) | 13.5 (.531) | 34 (1.34) | 16 (.63) | 34 (1.34) | M12 × 50 Lg. | SO-NB-G40 | 1.3 (2.9) | 118 (1044) |
| F6-10-A-M-10 | Rc 1-1/4 | | | | | | | | | | | | |
| F6-10W-A-U-1090 | 1 NPT | | | | | | 34 (1.34) | 16.8 (.66) | | 1/2-13UNC × 2 Lg. | | | |
| F6-10-A-U-1090 | 1-1/4 NPT | | | | | | 39 (1.54) | 18.2 (.72) | | 1/2-13UNC × 2-1/4 Lg. | | | |
| F6-12W-A-M-10 | Rc 1-1/4 | 90 (3.54) | 113 (4.45) | 36.5 (1.437) | 79.4 (3.126) | 17.5 (.689) | 34 (1.34) | 21 (.83) | 44 (1.73) | M16 × 55 Lg. | SO-NB-G50 | 1.5 (3.3) | 287 (2540) |
| F6-12-A-M-10 | Rc 1-1/2 | | | | | | | | | | | | |
| F6-12W-A-U-1090 | 1-1/4 NPT | | | | | | 34 (1.34) | 23.2 (.91) | | 5/8-11UNC × 2-1/4 Lg. | | | |
| F6-12-A-U-1090 | 1-1/2 NPT | | | | | | 39 (1.54) | 24.5 (.96) | | 5/8-11UNC × 2-1/2 Lg. | | | |

★1. Approx. mass is the value including socket head cap screws (4 Pcs.).

★2. The values of recommended tightening torque are for socket head cap screws.

■ Threaded Connection

European Design Standard : F6- *-A-M-1080



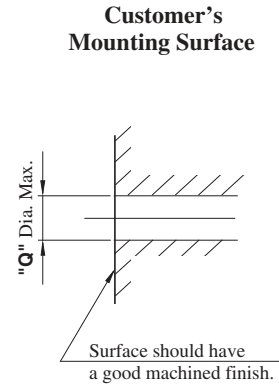
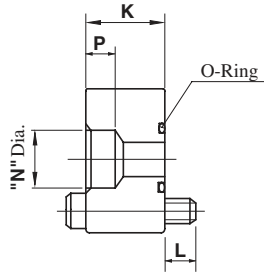
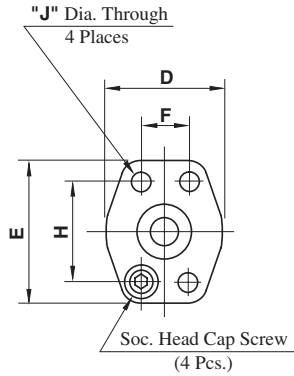
| Kit Numbers | Piping Size "C" Thd. | Dimensions mm (Inches) | | | | | | | | | | Socket Head Cap Screw (4 Pcs.) | O-Ring | Approx. Mass kg (lbs.) ^{*1} | Recommended Tightening Torque (Tolerance ±10%) Nm (IN.lbs.) ^{*2} |
|-----------------|----------------------|------------------------|----------------|-----------------|-----------------|----------------|--------------|-------------|-------------|--------------|--------------|--------------------------------|-----------|--------------------------------------|---|
| | | D | E | F | H | J | K | L | N | P | | | | | |
| F6-04W-A-M-1080 | 3/8 BSP.F | 48 (1.89) | 56.5 (2.22) | 18.2 (.717) | 40.5 (1.594) | 8.8 (.346) | 28 (1.10) | 12 (.47) | 14 (.55) | 15 (.59) | | M8 × 40 Lg. | SO-NB-P22 | 0.4 (.9) | 35 (310) |
| F6-04-A-M-1080 | 1/2 BSP.F | | | | | | | | 17 (.67) | | | | | | |
| F6-06W-A-M-1080 | 1/2 BSP.F | 57.5 (2.26) | 77.5 (3.05) | 23.8 (.937) | 50.8 (2.000) | 11 (.433) | 30 (1.18) | 15 (.59) | 17 (.67) | 21 (.83) | | M10 × 45 Lg. | SO-NB-G30 | 0.9 (2.0) | 68.5 (606) |
| F6-06-A-M-1080 | 3/4 BSP.F | | | | | | | | 20 (.79) | | | | | | |
| F6-08W-A-M-1080 | 3/4 BSP.F | 65 (2.56) | 81 (3.19) | 27.8 (1.094) | 57.2 (2.252) | 13.5 (.531) | 30 (1.18) | 15 (.59) | 20 (.79) | 26 (1.02) | | M12 × 45 Lg. | SO-NB-G35 | 1.1 (2.4) | 118 (1044) |
| F6-08-A-M-1080 | 1 BSP.F | | | | | | 34 (1.34) | 16 (.63) | 21 (.83) | | M12 × 50 Lg. | | | | |
| F6-10W-A-M-1080 | 1 BSP.F | 72 (2.83) | 95 (3.74) | 31.8 (1.252) | 66.7 (2.626) | 13.5 (.531) | 34 (1.34) | 16 (.63) | 21 (.83) | 34 (1.34) | | M12 × 50 Lg. | SO-NB-G40 | 1.3 (2.9) | 118 (1044) |
| F6-10-A-M-1080 | 1-1/4 BSP.F | | | | | | 39 (1.54) | | 22 (.87) | | M12 × 55 Lg. | | | | |
| F6-12W-A-M-1080 | 1-1/4 BSP.F | 90 (3.54) | 113 (4.45) | 36.5 (1.437) | 79.4 (3.126) | 17.5 (.689) | 34 (1.34) | 21 (.83) | 22 (.87) | 44 (1.73) | | M16 × 55 Lg. | SO-NB-G50 | 1.5 (3.3) | 287 (2540) |
| F6-12-A-M-1080 | 1-1/2 BSP.F | | | | | | 39 (1.54) | | | | M16 × 60 Lg. | | | | |

★1. Approx. mass is the value including socket head cap screws (4 Pcs.).

★2. The values of recommended tightening torque are for socket head cap screw.

■ Socket Welding

Japanese Standard "JIS" & European Design Standard : F6- *-B-M-10
 N. American Design Standard : F6- *-B-U-1090



| Kit Numbers | Piping Size | Dimensions mm (Inches) | | | | | | | | | | Socket Head Cap Screw (4 Pcs.) | O-Ring | Approx. Mass kg (lbs.) ^{*1} | Recommended Tightening Torque (Tolerance ±10%) Nm (IN.lbs.) ^{*2} | | | |
|---|-------------|------------------------|----------------|-----------------|-----------------|----------------|----------------|---------------|-----------------|-------------|--------------|--------------------------------|-----------|--------------------------------------|---|-------------|------------------------|---------------|
| | | D | E | F | H | J | K | L | N | P | Q | | | | | | | |
| F6-04W-B-M-10 ----- F6-04W-B-U-1090 | 3/8 | 48 (1.89) | 56.5 (2.22) | 18.2 (.717) | 40.5 (1.594) | 8.8 (.346) | 28 (1.10) | 12 (.47) | 17.8 (.701) | 9 (.35) | 15 (.59) | M8 × 40 Lg. | SO-NB-P22 | 0.4 (.9) | 35 (310) | | | |
| F6-04-B-M-10 ----- F6-04-B-U-1090 | | | | | | | 26 (1.02) | 12.1 (.48) | | | | 22.2 (.874) | | | | 11 (.43) | 5/16-18UNC × 1-1/2 Lg. | |
| F6-06W-B-M-10 ----- F6-06W-B-U-1090 | 1/2 | 57.5 (2.26) | 77.5 (3.05) | 23.8 (.937) | 50.8 (2.000) | 11 (.433) | 30 (1.18) | 15 (.59) | 22.2 (.874) | 11 (.43) | 21 (.83) | M10 × 45 Lg. | | | | SO-NB-G30 | 0.9 (2.0) | 68.5 (606) |
| F6-06-B-M-10 ----- F6-06-B-U-1090 | | | | | | | 14.5 (.57) | 15 (.59) | | | | 27.7 (1.091) | | | | | | |
| F6-08W-B-M-10 ----- F6-08W-B-U-1090 | 3/4 | 65 (2.56) | 81 (3.19) | 27.8 (1.094) | 57.2 (2.252) | 13.5 (.531) | 30 (1.18) | 15 (.59) | 27.7 (1.091) | 12 (.47) | 26 (1.02) | M12 × 45 Lg. | SO-NB-G35 | 1.1 (2.4) | 118 (1044) | | | |
| F6-08-B-M-10 ----- F6-08-B-U-1090 | | | | | | | 26.5 (1.04) | 18 (.71) | | | | 34.5 (1.358) | | | | | | |
| F6-10W-B-M-10 ----- F6-10W-B-U-1090 | 1 | 72 (2.83) | 95 (3.74) | 31.8 (1.252) | 66.7 (2.626) | 13.5 (.531) | 34 (1.34) | 16 (.63) | 34.5 (1.358) | 14 (.55) | 34 (1.34) | M12 × 50 Lg. | | | | SO-NB-G40 | 1.3 (2.9) | 118 (1044) |
| F6-10-B-M-10 ----- F6-10-B-U-1090 | | | | | | | 16.8 (.66) | 16 (.63) | | | | 43.2 (1.701) | | | | | | |
| F6-12W-B-M-10 ----- F6-12W-B-U-1090 | 1-1/4 | 90 (3.54) | 113 (4.45) | 36.5 (1.437) | 79.4 (3.126) | 17.5 (.689) | 34 (1.34) | 21 (.83) | 43.2 (1.701) | 16 (.63) | 44 (1.73) | M16 × 55 Lg. | SO-NB-G50 | 1.5 (3.3) | 287 (2540) | | | |
| F6-12-B-M-10 ----- F6-12-B-U-1090 | | | | | | | 23.2 (.91) | 21 (.83) | | | | 49.1 (1.933) | | | | | | |

★ 1. Approx. mass is the value including socket head cap screws (4 Pcs.).
 ★ 2. The values of recommended tightening torque are for socket head cap screws.