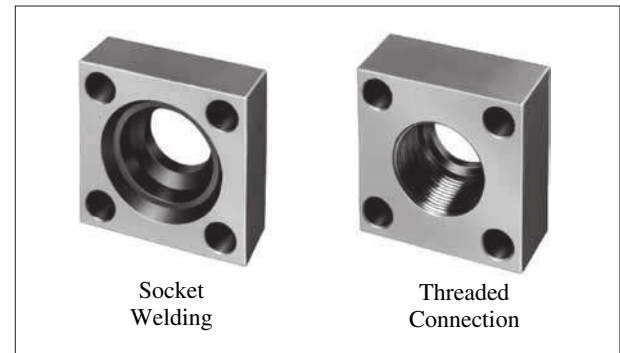


“F3” Series Pipe Flange Kits

Specifications

- Max. Operating Pressure...25 MPa (3630 PSI)



Model Number Designation

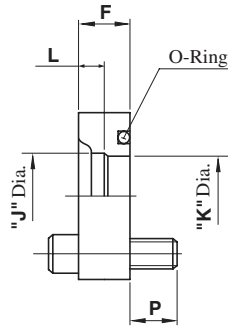
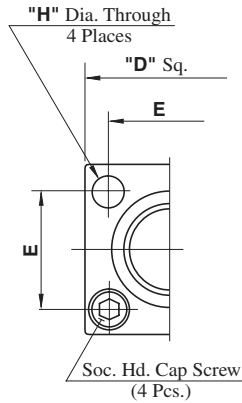
F-	F3	-03W	-A	-N	-11	*
Material of Seal	Series Number	Flange Size	Type of Pipe Connection	O-Ring & Bolts	Design Number	Design [*] Standards
None: Standard NBR (Buna N) Seal F: FPM (Viton) Seal (For Synthetic fluids)	F3	03W, 03, 06V 06W, 06, 10W 10, 16W, 16 24W, 24	A: Pipe Socket Welding	None: With O-Ring and Mounting Bolts	11	None: Japanese Standard "JIS" & European Design Standard
		03W, 03, 06W 06, 10W, 10 16W, 16, 24W 24	C: Block Type	N: No O-Ring and Mounting Bolts		90: N. American Design Standard
		03W, 03, 06V 06W, 06, 10W 10, 16W, 16 24W, 24	B: Threaded Connection	None: With O-Ring and Mounting Bolts	11	None: Japanese Standard "JIS"
		03W, 03, 06W 06, 10W, 10 16W, 16, 24W 24		N: No O-Ring and Mounting Bolts		80: European Design Standard 90: N. American Design Standard

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

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

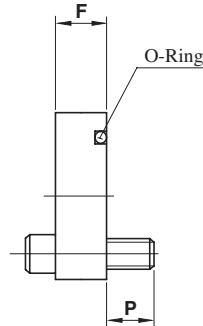
■ Pipe Socket Welding

F3-*-A*-11/1190

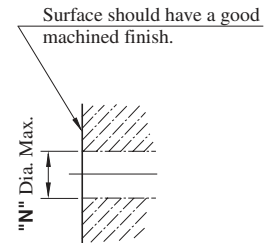


■ Block Type

F3-*-C*-11/1190



Customer's Mounting Surface



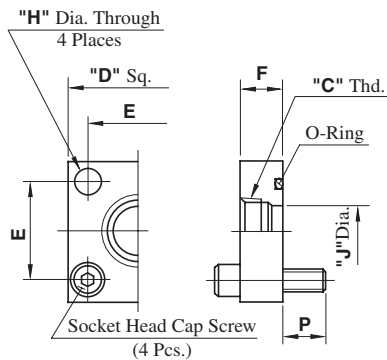
Kit Numbers	Piping Size	Dimensions mm (Inches)									O-Ring	Socket Head Cap Screw	Approx.* Mass kg (lbs.)
		D	E	F	H	J	K	L	N	P			
F3-03W-*-11	1/4	54 (2.13)	36 (1.42)	21 (.83)	11 (.43)	14.3 (.56)	11 (.43)	8 (.31)	15 (.59)	14 (.55)	SO-NB-G25	M10 × 35 Lg.	0.5 (1.1)
F3-03W-*-1190										17.1 (.67)		3/8-16UNC × 1-1/2 Lg.	
F3-03-*-11	3/8	54 (2.13)	36 (1.42)	21 (.83)	11 (.43)	17.8 (.70)	12.5 (.49)	9 (.35)	15 (.59)	14 (.55)		M10 × 35 Lg.	
F3-03-*-1190										17.1 (.67)		3/8-16UNC × 1-1/2 Lg.	
F3-06V-*-11	3/8	58 (2.28)	40 (1.57)	21 (.83)	11 (.43)	17.8 (.70)	12.5 (.49)	9 (.35)	20 (.79)	14 (.55)	SO-NB-G30	M10 × 35 Lg.	0.8 (1.8)
F3-06W-*-11	1/2					22.2 (.87)	16 (.63)	11 (.43)		14 (.55)		M10 × 35 Lg.	
F3-06W-*-1190										17.1 (.67)		3/8-16UNC × 1-1/2 Lg.	
F3-06-*-11	3/4					27.7 (1.09)	20 (.79)	12 (.47)		14 (.55)		M10 × 35 Lg.	
F3-06-*-1190					17.1 (.67)	3/8-16UNC × 1-1/2 Lg.							
F3-10W-*-11	1	76 (2.99)	56 (2.20)	27 (1.06)	13.5 (.53)	34.5 (1.36)	25 (.98)	14 (.55)	31.5 (1.24)	18 (.71)	SO-NB-G40	M12 × 45 Lg.	1.4 (3.1)
F3-10W-*-1190										17.5 (.69)		1/2-13UNC × 1-3/4 Lg.	
F3-10-*-11	1-1/4					43.2 (1.70)	31.5 (1.24)	16 (.63)		18 (.71)		M12 × 45 Lg.	
F3-10-*-1190										17.5 (.69)		1/2-13UNC × 1-3/4 Lg.	
F3-16W-*-11	1-1/2	100 (3.94)	73 (2.87)	35 (1.38)	17.5 (.69)	49.1 (1.93)	37.5 (1.48)	18 (.71)	50 (1.97)	25 (.98)	SO-NB-G60	M16 × 60 Lg.	2.7 (6.0)
F3-16W-*-1190										22.1 (.87)		8/5-11UNC × 2-1/4 Lg.	
F3-16-*-11	2					61.1 (2.41)	47.5 (1.87)	20 (.79)		25 (.98)		M16 × 60 Lg.	
F3-16-*-1190										22.1 (.87)		8/5-11UNC × 2-1/4 Lg.	
F3-24W-*-11	2-1/2	140 (5.51)	103 (4.06)	44 (1.73)	24 (.94)	77.1 (3.04)	60 (2.36)	22 (.87)	75 (2.95)	36 (1.42)	SO-NB-G85	M22 × 80 Lg.	5.8 (12.8)
F3-24W-*-1190										38.6 (1.52)		7/8-9UNC × 3-1/4 Lg.	
F3-24-*-11	3					90.0 (3.54)	71 (2.80)	25 (.98)		36 (1.42)		M22 × 80 Lg.	
F3-24-*-1190										38.6 (1.52)		7/8-9UNC × 3-1/4 Lg.	

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

Threaded Connection

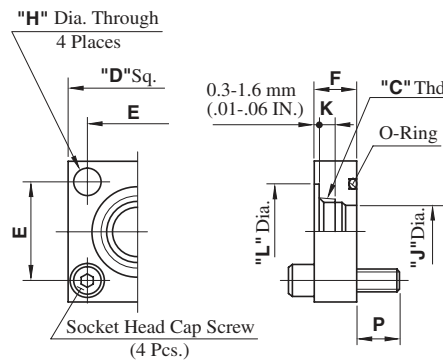
Japanese Standard "JIS" & N. American Design Standard

F3-*-B*-11/1190

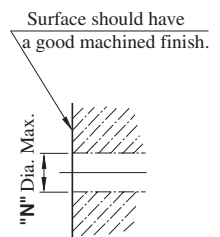


European Design Standard

F3-*-B*-1180



Customer's Mounting Surface



Piping Size:
03W to 10

Piping Size:
16W to 24

Kit Numbers	Piping Size "C" Thd.	Dimensions mm (Inches)									O-Ring	Socket Head Cap Screw	Approx. Mass kg (lbs.)
		D	E	F	H	J	K	L	N	P			
F3-03W-B*-11	Rc 1/4	54 (2.13)	36 (1.42)	21 (.83)	11 (.43)	11 (.43)	—	—	15 (.59)	14 (.55)	SO-NB-G25	M10 × 35 Lg.	0.5 (1.1)
F3-03W-B*-1180	1/4 BSPF					11.5 (.45)	12 (.47)	21 (.83)		17.1 (.67)		3/8-16UNC × 1-1/2 Lg.	
F3-03W-B*-1190	1/4 NPT					11 (.43)	—	—		14 (.55)		M10 × 35 Lg.	
F3-03-B*-11	Rc 3/8					15 (.59)	14 (.55)	24.3 (.96)		17.1 (.67)		3/8-16UNC × 1-1/2 Lg.	
F3-03-B*-1180	3/8 BSPF					14 (.55)	—	—		—		—	
F3-03-B*-1190	3/8 NPT					—	—	—		—		—	
F3-06V-B*-11	Rc 3/8	58 (2.28)	40 (1.57)	21 (.83)	11 (.43)	14 (.55)	—	—	20 (.79)	14 (.55)	SO-NB-G30	M10 × 35 Lg.	0.8 (1.8)
F3-06W-B*-11	Rc 1/2					17.5 (.69)	—	—		14 (.55)		M10 × 35 Lg.	
F3-06W-B*-1180	1/2 BSPF					19 (.75)	17 (.67)	29 (1.14)		17.1 (.67)		3/8-16UNC × 1-1/2 Lg.	
F3-06W-B*-1190	1/2 NPT					17.5 (.69)	—	—		13 (.51)		M10 × 40 Lg.	
F3-06-B*-11	Rc 3/4					24.5 (.96)	20 (.79)	35.5 (1.40)		17.5 (.69)		3/8-16UNC × 1-3/4 Lg.	
F3-06-B*-1180	3/4 BSPF					23 (.91)	—	—		—		—	
F3-10W-B*-11	Rc 1	76 (2.99)	56 (2.20)	27 (1.06)	13.5 (.53)	29 (1.14)	—	—	31.5 (1.24)	18 (.71)	SO-NB-G40	M12 × 45 Lg.	1.4 (3.1)
F3-10W-B*-1180	1 BSPF					30.5 (1.20)	21 (.83)	43.5 (1.71)		17.5 (.69)		1/2-13UNC × 1-3/4 Lg.	
F3-10W-B*-1190	1 NPT					29 (1.14)	—	—		15 (.59)		M12 × 50 Lg.	
F3-10-B*-11	Rc 1-1/4					31.5 (1.24)	22 (.87)	53 (2.09)		15.8 (.62)		1/2-13UNC × 2 Lg.	
F3-10-B*-1180	1-1/4 BSPF					—	—	—		—		—	
F3-10-B*-1190	1-1/4 NPT					—	—	—		—		—	
F3-16W-B*-11	Rc 1-1/2	100 (3.94)	73 (2.87)	35 (1.28)	17.5 (.69)	43.5 (1.71)	—	—	50 (1.97)	25 (.98)	SO-NB-G60	M16 × 60 Lg.	2.7 (6.0)
F3-16W-B*-1180	1-1/2 BSPF					45 (1.77)	22 (.87)	—		28.5 (1.12)		5/8-11UNC × 2-1/2 Lg.	
F3-16W-B*-1190	1-1/2 NPT					43.5 (1.71)	—	—		21 (.83)		M16 × 60 Lg.	
F3-16-B*-11	Rc 2					47.5 (1.87)	22 (.87)	—		24.5 (.96)		5/8-11UNC × 2-1/2 Lg.	
F3-16-B*-1180	2 BSPF					—	—	—		—		—	
F3-16-B*-1190	2 NPT					—	—	—		—		—	
F3-24W-B*-11	Rc 2-1/2	140 (5.51)	103 (4.06)	44 (1.73)	24 (.94)	70 (2.76)	—	—	75 (2.95)	36 (1.42)	SO-NB-G85	M22 × 80 Lg.	5.8 (12.8)
F3-24W-B*-1180	2-1/2 BSPF					72.5 (2.85)	20 (.79)	—		38.6 (1.52)		7/8-9UNC × 3-1/4 Lg.	
F3-24W-B*-1190	2-1/2 NPT					70 (2.76)	—	—		31 (1.22)		M22 × 80 Lg.	
F3-24-B*-11	Rc 3					71 (2.80)	20 (.79)	—		33.6 (1.32)		7/8-9UNC × 3-1/4 Lg.	
F3-24-B*-1180	3 BSPF					—	—	—		—		—	
F3-24-B*-1190	3 NPT					—	—	—		—		—	

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