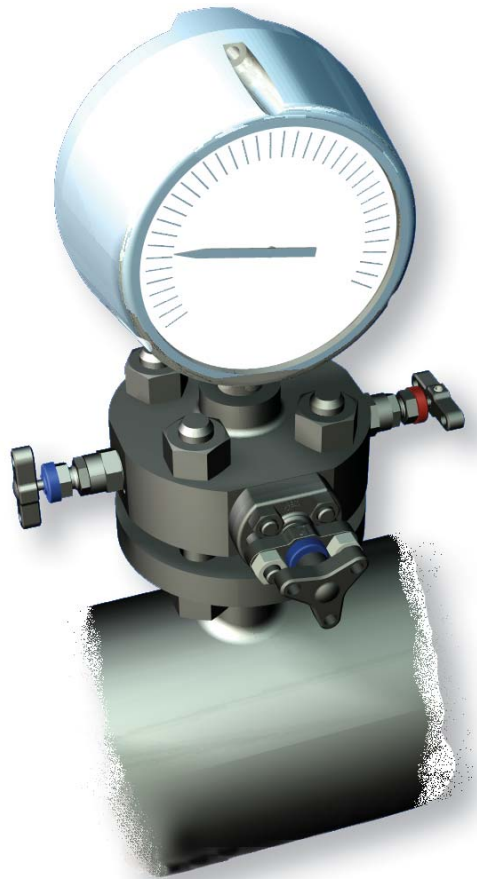


Flanged Products

Monoflange (MF) manifolds

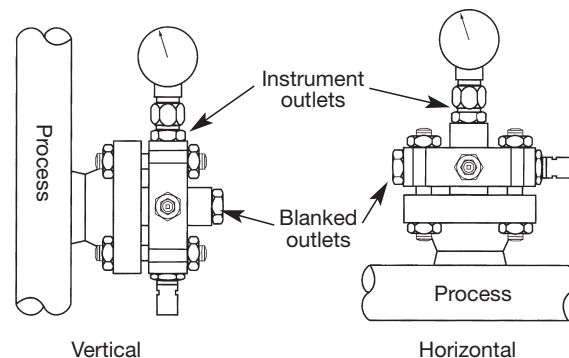
Purpose

This manifold range is designed to replace conventional multiple-valve installations currently in use for interface with pressure measuring systems. By combining customer specified valves into a single manifold, the number of leak paths is considerably reduced and the mass of the system is lowered reducing the stresses from loading and vibration. The result of which substantially improves installation and operational safety factors. Reduction in leakage path connections together with a one-piece solution also provides positive installation cost savings.



Key advantages of Parker Monoflanges

- Strong construction produced from one piece grain flow controlled forged body.
- Various flow and valve configurations available allowing true flexibility to meet all customer requirements.
- Variety of flange sizes and outlet connections.
- Standard materials of Carbon Steel A105, Low Temperature Carbon Steel A350 LF2, Stainless Steel A182-F316 and Duplex Stainless Steel A182-F51.
- Optional materials include Super Duplex, Monel, Hastelloy, 6Mo, Incoloy 625.
- Incorporation of standard “H” series needle valve technology and state of the art O.S.&Y. design.
- 4mm Needle valve orifice.
- Ergonomically designed operating handles with low torque function.
- Full range of customer retro fit handle options.
- User friendly part number and specification construction system.
- Customised designs welcome.

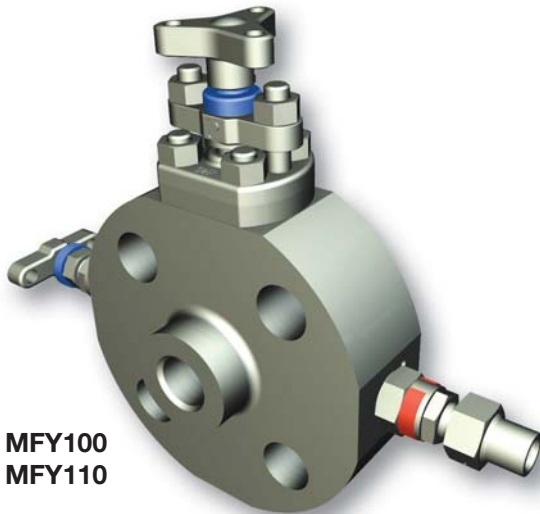


Instrument outlet connections

One of the unique features Parker can offer users which can further enhance safety factors is the incorporation of single or twin ferrule compression fittings as an integral part of the outlet connection.

Installation of the instrument which require remote positioning will be interconnected using conventional tube and fittings, whilst NPT taper threads are accepted as a standard their use involves some form of thread sealant which adds to the complication of instrument performance through contamination within the system.

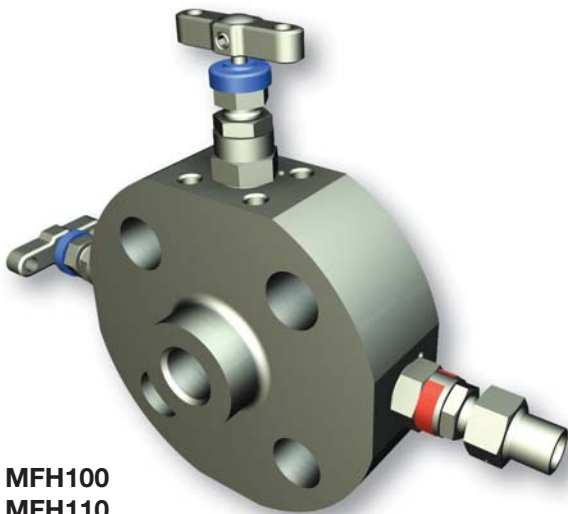
Avoiding these taper thread connections wherever possible reduces this contaminant risk and Parker, being a leading manufacturer of compression type of fittings (which requires no sealant mediums), can incorporate them in the outlet connection, totally eliminating the contamination risk.



MFY100
MFY110



MFY140



MFH100
MFH110

Monoflange features

- 1/2" to 2" N.B. Flanges (15 to 50 DN).
- ANSI B16.5 150 to 2500 flange class and API 10,000.
- 1/2-14 NPT (female) standard outlet.
- 1/4-18 NPT (female) standard vent.
- Variety of optional end connection sizes and thread forms including tube connections 1/2"/12mm diameter.
- Standard materials of construction: Stainless steel ASTM A182 F316/F316L, Carbon steel ASTM A350 LF2/A105, Duplex ASTM A182 F51.
- Optional materials include Super Duplex, Monel, Hastelloy, 6Mo, Incoloy.
- Combined needle and O.S.&Y. valves available.
- Instrument connections A-LOK® inverted available.
- Raised face and ring type joint flange face styles.
- One-piece forged construction flange as standard.
- H needle design with retro fit handle options.
- Optional fire safe designed (and tested) to meet BS6755 part 2/API 607.
- Pressure boundary designs calculated to ASME VIII Div. 1 and verified by testing.
- 4:1 Factor of Safety.
- Heat code traceable material to EN10204.3.1.
- Bubble tight shut off valve seats 17-4 PH tips standard.
- Optional PEEK tips available.
- Colour coded functional valves.
- Optional locking and anti tamper devices for all valve types available.
- NACE MR 0175/ISO 15156 compliant material available on request.
- Permanent marked body with full order and specification details.

Standard specification:

Outlet - 1/2" FNPT
Vent - plugged 1/4" FNPT
Seat - metal/metal St. St.
Packing - PTFE

Flanged Products

Monoflange (MF) manifold selection and part number construction - made easy

Select the style of Monoflange from the choice of arrangements below noting the complete **MF reference**. If the style or arrangement is not shown below please provide full description and specification.

		Block bleed block 1st Isolate: Needle 2nd Isolate: Needle Vent: Needle			Block bleed block 1st Isolate: O.S.&Y. 2nd Isolate: Needle Vent: Needle
		Block block bleed 1st Isolate: Needle 2nd Isolate: Needle Vent: Needle			Block block bleed 1st Isolate: O.S.&Y. 2nd Isolate: Needle Vent: Needle
		Block & bleed 1st Isolate: Needle Vent: Needle			Block & bleed 1st Isolate: O.S.&Y. Vent: Needle
		Block & bleed 1st Isolate: Needle Vent: Needle			Block & bleed 1st Isolate: O.S.&Y. Vent: Needle
		Double block 1st Isolate: Needle 2nd Isolate: Needle			Double block 1st Isolate: O.S.&Y. 2nd Isolate: Needle.
		Single block 1st Isolate: Needle			Single block 1st Isolate: O.S.&Y.

▲ For dual outlets specify MFH105, MFH115, MFY105, MFY115

Other flow path options: MF*160 Bleed only, MF*200 Flange to flange design,

MFY102 O.S.&Y. Primary and secondary isolate, MFY117 O.S.&Y. All round and dual outlet. Please note vent valve is not anti-tamper as std.

Example MFY100 B 32T2500 A3 F

1. Monoflange part number
Insert from page 10

2. Material

- A Carbon Steel ASTM A105
- B Stainless Steel ASTM A182-F316
- D Monel M400
- E Duplex ASTM A182-F51
- F Super Duplex ASTM A182-F53
- G Hastelloy C-276
- H Low Temp. C. St. ASTM A350 LF2
- K 6Mo
- M Inconel 625

3. Flange details

Flange Size	Flange Face Style	Flange Class
8 = 1/2"	F = Raised Face Spiral	150 = 150
12 = 3/4"	T = Ring Type Joint	300 = 300
16 = 1"		600 = 600
24 = 1 1/2"		900 = 900
32 = 2"		1500 = 1500
API } specify separately		2500 = 2500
DIN } see page 16		* 136 = 150/300/600
*1/2" flange size only		

8. Certification & condition

- F Firesafe design and certified (primary only - O.S.&Y. needle valve)
- H Heat code certificates to EN10204.3.1.B
- N NACE
Combine designators as required

7. Valve handle operating options

- A* Anti tamper
 - L* Padlock handle locking
 - R* Regulating tip ("H" series needle valve only)
- * Insert valve number 1 = primary, 2 = secondary, 3 = vent, 4 = all.
Padlocks not supplied

4. Outlet style (1/2" FNPT is standard NO part designator needed)

Size	Connection Style
4 = 1/4"	F = Female NPT Thread
6 = 3/8"	M = Male NPT Thread
8 = 1/2"	A = A-LOK® (inverted only)
M6 = 6mm	G = Swivel gauge adaptor 1/2" NPTF (fitted)
M10 = 10mm	
M12 = 12mm	

5. Plugged vent (1/4" FNPT is standard NO part designator needed)

Size
V6 = 3/8" FNPT
V8 = 1/2" FNPT

6. Valve packing and seat materials

- * PTFE Packing
 - * Needle tip 17-4PH St. St.
 - 3 Graphoil (fitted as standard when fire safe design is specified)
 - PN PEEK Needle tip all valves (non fire safe only)
- * fitted as standard no part NO designator required.

⚠ When selecting products for specific applications users should refer to our notice at the bottom of page 19.

IMPORTANT NOTES

All non wetted parts will be supplied in standard stainless steel for exotic materials. For carbon steel construction trim materials will be supplied in stainless steel.

Ring type joints (T) CANNOT be supplied for 1/2" & 3/4" class 150 flanges.

St. St. grades 302 and 304 are NOT used in the construction of any of these products.

For customer specific options not covered here engineering will allocate a part number at quotation stage.

Certification requirements and customer specifications MUST be provided at enquiry and order stage.

For API flange requirements full details must be specified separately.

Part number example MFY100B32T2500A3F Monoflange - Double Block and Bleed - Block (O.S.&Y.) Bleed (Needle) Block (Needle) (MFY100) - 316 St. St. construction (B) - 2" Pipe flange, Ring type joint, class 2500 (32T2500) - 1/2" female NPT outlet - 1/4" Female NPT vent - Anti-tamper vent (A3) - Firesafe design and certified (F), valves fitted with PTFE packing, metal seated 17-4PH st.st. tips.