



Double Block and Bleed with Ultra-Low Emission options

Catalog 4190-FP

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Flanged Products

Monoflange (MF) manifolds

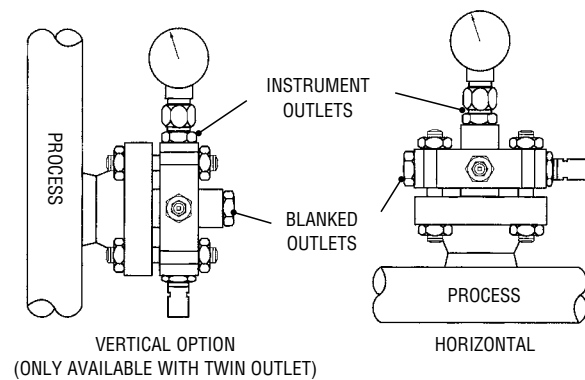
Purpose

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. Suitable for Ultra-Low Emission requirements.



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
- Available to meet ISO 15848, Class A



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.

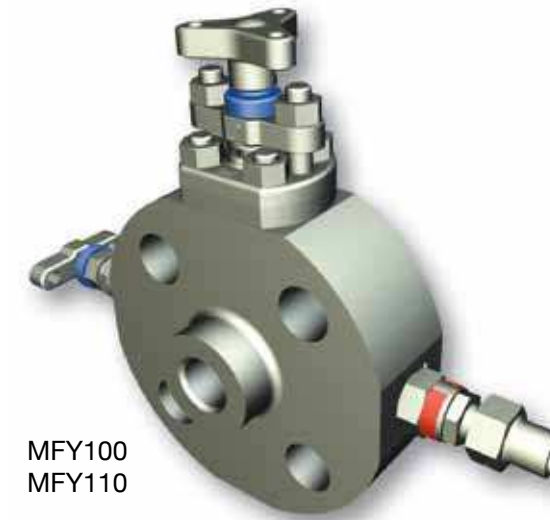
Installation of the instrument which require remote positioning will be interconnected using conventional tube and fittings, whilst NPT taper threads are accepted as a standard their use involves some form of thread sealant which adds to the complication of instrument performance through contamination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

Flanged Products

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
- Available with various non-threaded connections, please contact us



MFY100
MFY110



MFY140



MFH100
MFH110

Standard specification:

Outlet - 1/2 FNPT
Vent - plugged 1/4 FNPT
Seat - metal to metal
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	MFH100		Block bleed block 1st Isolate: O.S.&Y. 2nd Isolate: Needle Vent: Needle	MFY100
	Block block bleed 1st Isolate: Needle 2nd Isolate: Needle Vent: Needle	MFH110		Block block bleed 1st Isolate: O.S.&Y. 2nd Isolate: Needle Vent: Needle	MFY110
	Block & bleed 1st Isolate: Needle Vent: Needle	MFH120		Block & bleed 1st Isolate: O.S.&Y. Vent: Needle	MFY120
	Block & bleed 1st Isolate: Needle Vent: Needle	MFH130		Block & bleed 1st Isolate: O.S.&Y. Vent: Needle	MFY130
	Double block 1st Isolate: Needle 2nd Isolate: Needle	MFH140		Double block 1st Isolate: O.S.&Y. 2nd Isolate: Needle	MFY140
	Single block 1st Isolate: Needle	MFH150		Single block 1st Isolate: O.S.&Y.	MFY150

◆ For dual outlets specify MF*105. ▲ For dual outlets specify MF*115.
For flange to flange variants replace MF*1** with MF*2**.
For bleed port only specify MF*160.
Please note vent valve is not anti-tamper as standard.

Flanged Products

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/F55
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 20		*136 = 150/300/600
*1/2 flange size only		

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.

7. Valve handle operating options
A* Anti tamper
L* Padlock handle locking
R* Regulating tip (H series needle valve only)
Y* O.S.&Y. valves
* Insert valve number 1 = primary, 2 = secondary, 3 = vent, 4 = all. Padlocks not supplied

8. Condition
F Firesafe design (primary only - O.S.&Y. needle valve)
N NACE
Combine designators as required
Please Note:
Certification requirements and customer specifications MUST be provided at enquiry and order stage.

IMPORTANT NOTES

⚠ When selecting products for specific applications users should refer to our notice at the bottom of page 27.

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.

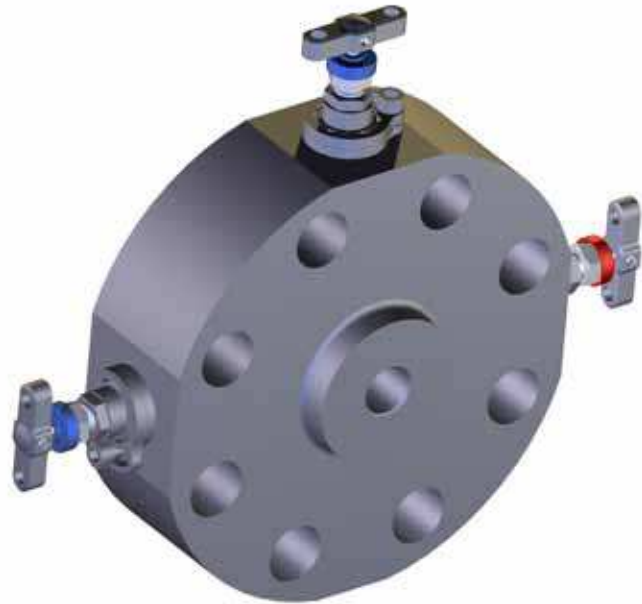
For API flange requirements full details must be specified separately.

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.

Monoflange manifolds compliant with ANSI B31.1

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

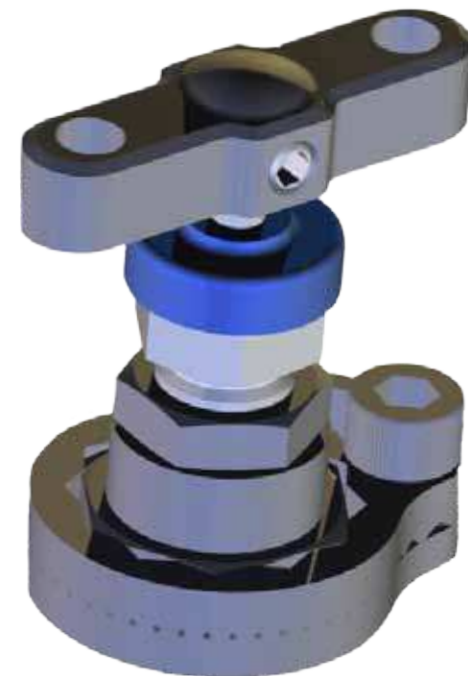
- Strong construction produced from one piece grain flow controlled forged body
- Various flow and valve configurations available allowing true flexibility to meet all customer requirements
- Variety of flange sizes and outlet connections
- Incorporation of HPP series needle valve technology
- 4mm Needle 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.

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Monoflange features

- 1/2 to 2 N.B. Flanges (15 to 50 DN)
- ANSI B16.5 150 to 2500 flange class
- 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
- Instrument connections A-LOK inverted available
- Raised face and ring type joint flange face styles
- One-piece forged construction flange as standard
- Graphite packing to meet full pressure/temperature requirements of ANSI B31.1 materials
- Pressure boundary designs calculated to ANSI B31.1
- 4:1 Factor of Safety

- Heat code traceable material to EN10204.3.1
- Bubble tight shut off valve seats 17-4 PH tips standard
- 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
- Available with various non-threaded connections, please contact us

Standard specification:

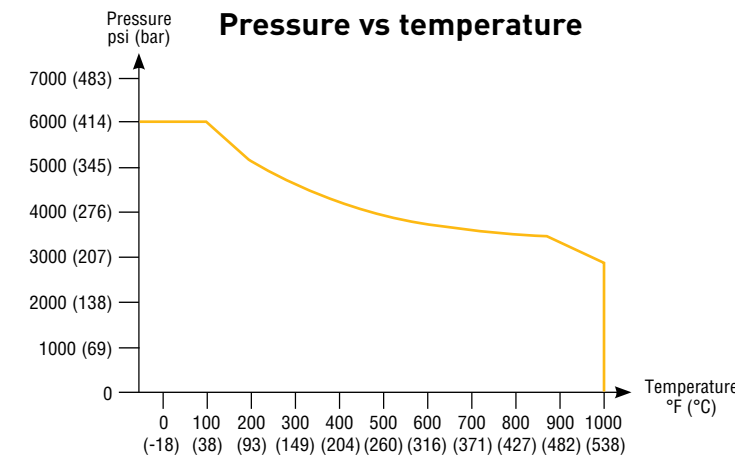
Outlet - 1/2 FNPT
Vent - plugged 1/4 FNPT
Seat - metal to metal
Packing - PTFE

Features

- All valves are graphite packed for high temperature service
- Non rotating, hard stem tip with metal to metal seating for bubble tight shut-off
- Back seat design
- Blow-out proof stem
- Pressures & temperatures in accordance with ASME class 2500
- Patented Tru-Lok safety bonnet locking device prevents accidental removal
- Standard orifice 4mm (Cv 0.35)

Specific pressure / temperature performance

316 SS 6000 psig @ 100 F (414 bar @ 38 C)
2915 psig @ 1000 F (201 bar @ 538 C)



⚠ When selecting products for specific applications users should refer to our notice below.

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

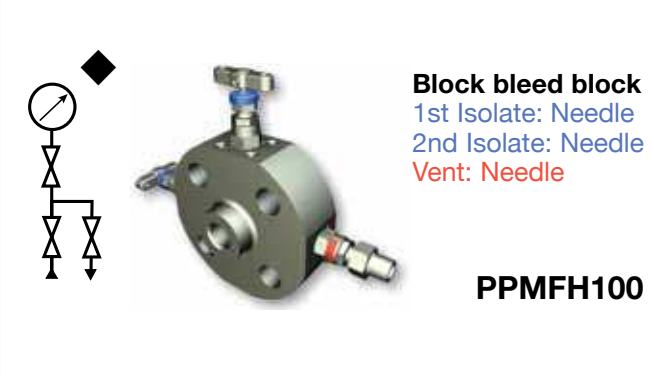





Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any Order accepted by Parker Hannifin will be subject to our terms and conditions of sale, copy available on request.

Flanged Products

ANSI B31.1 compliant manifold selection and part number construction - made easy

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

 <p>Block bleed block 1st Isolate: Needle 2nd Isolate: Needle Vent: Needle</p> <p>PPMFH100</p>	 <p>Block & bleed 1st Isolate: Needle Vent: Needle</p> <p>PPMFH130</p>
 <p>Block block bleed 1st Isolate: Needle 2nd Isolate: Needle Vent: Needle</p> <p>PPMFH110</p>	 <p>Double block 1st Isolate: Needle 2nd Isolate: Needle</p> <p>PPMFH140</p>
 <p>Block & bleed 1st Isolate: Needle Vent: Needle</p> <p>PPMFH120</p>	 <p>Single block 1st Isolate: Needle</p> <p>PPMFH150</p>

◆ For dual outlets specify PPMFH105. ▲ For dual outlets specify PPMFH115.
For flange to flange variants replace PPMFH1** with PPMFH2**.
For bleed port only specify PPMFH160.
Please note vent valve is not anti-tamper as standard.



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Flanged Products

Example PPMFH100 B 32T2500 3 A3 N

- 1. Monoflange part number**
Insert from page 14
- 2. Material**
A Carbon Steel ASTM A105
B Stainless Steel ASTM A182-F316
G Hastelloy C-276
H Low Temp. C. St. ASTM A350 LF2
- 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 20		136 = 150/300/600
*1/2 flange size only		
- 4. Outlet style (1/2" FNPT is standard NO part designator needed)**

Size	Connection Style
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6 = 3/8	M = Male NPT Thread
8 = 1/2	A = A-LOK (inverted only)
M6 = 6mm	G = Swivel gauge
M10 = 10mm	adaptor 1/2
M12 = 12mm	NPTF (fitted)
- 5. Plugged vent (1/4" FNPT is standard NO part designator needed)**

Size
V6 = 3/8 FNPT
V8 = 1/2 FNPT
- 6. Valve packing**
3 Graphoil (standard)
- 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
- 8. Condition**
N NACE
Combine designators as required
Please Note: Certification requirements and customer specifications MUST be provided at enquiry and order stage.

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IMPORTANT NOTES

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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.

Part number example PPMFH100B32T25003A3 Monoflange - Double Block and Bleed - Block (Needle) Bleed (Needle) Block (Needle) (PPMFH100) - 316 St. St. construction (B) - 2 Pipe flange, Ring type joint, class 2500 (32T2500) - 1/2 female NPT outlet - 1/4 Female NPT vent - Graphite Packing (3) Anti-tamper vent (A3) metal seated 17-4PH st.st. tips.