

V02 Series Monoflange

Features

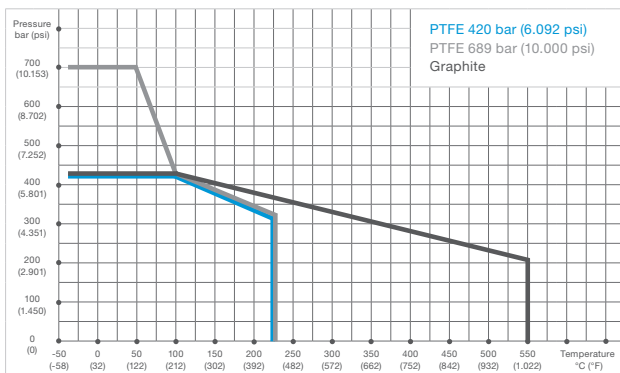
- A variety of styles:
 - Block and bleed, screwed bonnet design (MN)
 - Double block and bleed, OS&Y bolted bonnet design (MG)
 - Block and bleed, OS&Y bolted bonnet design (MD)
- 316L Stainless steel construction
- Anti-tamper head units

Typical Uses

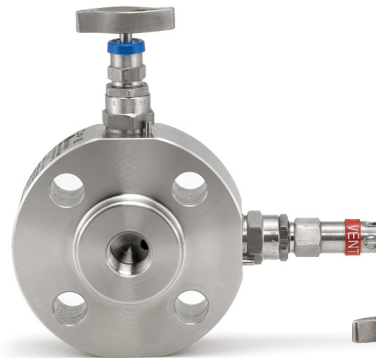
- Oil & Gas Industry
 - Upstream: Onshore/offshore production
 - Midstream: Transport, storage and natural gas compression
 - Downstream: Refineries & petrochemical industries
- Chemical Industry
- Power Plants
 - Conventional power plants
 - Nuclear power plants
 - Flue gas desulfurization plants

Specifications

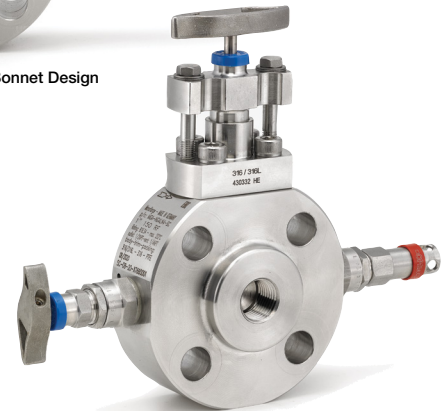
Flanged Process Connection:	½"-3" Raised face, Ring Joint
Instrument Connection:	½ NPT Female
Construction:	316L Stainless steel
Max. Pressure Rating for valve head:	6092 psi at 428 °F (420 bar at 220 °C) more details, check chart below 10,000 psi (OPT.) for instrument type
Max. Temperature Rating for valve head:	
PTFE	450 °F (232°C)
Graphite	1,022 °F (550°C)
Oxygen service	392 °F (200°C)
Min. Temperature Rating for valve head:	
PTFE	-40 °F (-40 °C)
Graphite	-40 °F (-40 °C)



Pressure and Temperature ratings are for valve head units only. ASME B16.5 should be adhered to for all flange pressure and temperature ratings.



Block and Bleed Screwed Bonnet Design
MN Monoflange



Double Block and Bleed
OS&Y Bolted Bonnet Design
MG Monoflange

Key Benefits

- PTFE Packing (other materials available upon request)
- Non-rotating needle tip with blowout protection
- Supplied with wetted parts according to NACE MR0175/MR0103 (CD-5 Certificate)
- Material traceability reports available per EN 10204 3.1

Components	Material
Wetted	
Body	316L Stainless steel
Needle	316L Stainless steel
Packing	PTFE
Bonnet	316 Stainless steel
Pipe plug	316L Stainless steel
Non-Wetted	
Valve stem	316L Stainless steel
T-handle	316 Stainless steel
Lock nut	316 Stainless steel
Gland	316 Stainless steel

Contact Us

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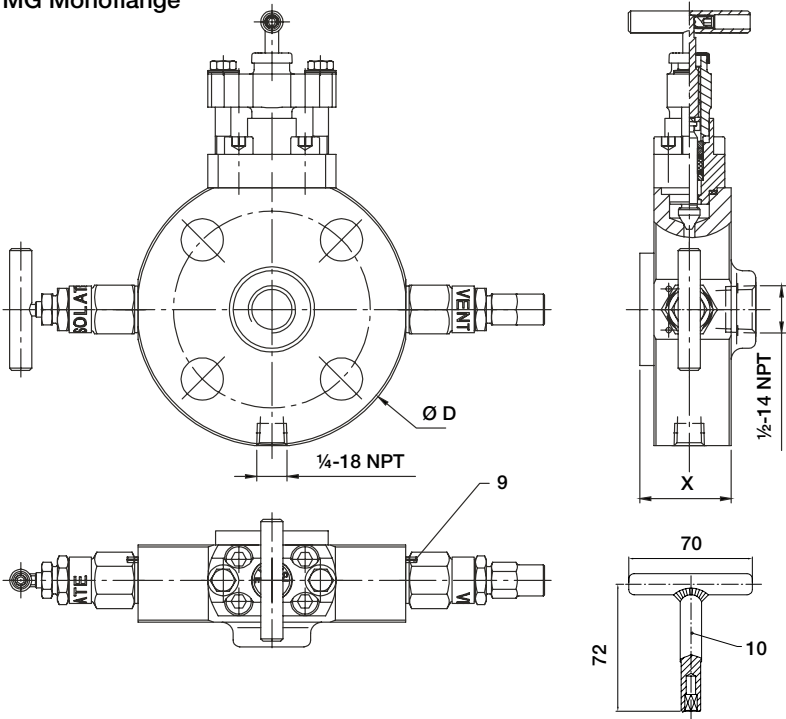
V02 Series Monoflange

Ordering Code	Example:	MD	V02	50	150	RF	SS	50	X2G
Monoflange Model									
MD - Block and Bleed (OS&Y Bolted Bonnet Design)		MD							
MG - Double Block and Bleed (OS&Y Bolted Bonnet Design)									
MN - Block and Bleed (Screwed Bonnet Design)									
Series Code									
V02 - Valve			V02						
Flange Connection									
50 - ½"				50					
75 - ¾"									
10 - 1"									
15 - 1½"									
20 - 2"									
30 - 3"									
Flange Rating (see ASME B16.5 for pressure/temperature ratings)									
150 - ASME 150					150				
300 - ASME 300									
600 - ASME 600									
900 - ASME 900									
1500 - ASME 1500									
2500 - ASME 2500									
Flange Type									
RF - Raised Face						RF			
RJ - Ring Joint									
Material (other materials available upon request)									
SS - 316L Stainless Steel							SS		
Instrument Connection									
50 - ½ NPT Female								50	
Options (if choosing an option(s) must include an "X")									
Tags									
NH - Stainless steel tag wired to valve									X _ _
Testing/Certificates									
HY - Pneumatic/hydrostatic testing									
MQ - Positive material identification									
C3 - Material traceability report per EN 10204.2004 3.1									
1H - Pneumatic/Hydrostatic testing of assemblies									
Special Cleaning									
6B - Cleaned for gaseous oxygen service									
Other									
P7 - Compliance with power piping ASME B31.1									
2G - Graphite bonnet for high temperatures									2G
3G - High pressure construction rated to 10,000 psi									
Assembly Codes									
Q5 - Instrument Assembly: Instrument/Accessory/Valve									
5G - Valve attached to instrument									
Certification (miscellaneous charges not included within model code)									
CD-5 - Certificate according to NACE for Oilfields MR0175/ISO 15156-2009 and for Refineries MR0103-2010									

V02 Series Monoflange

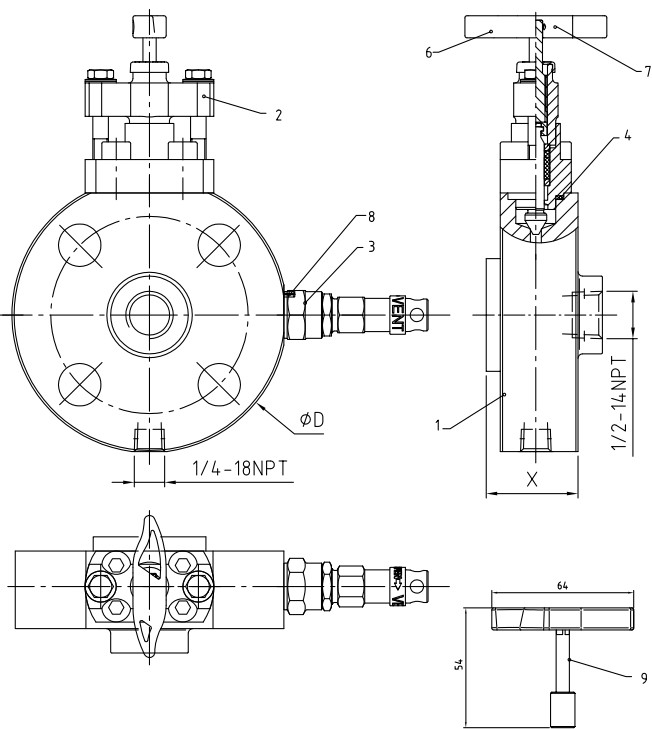
Dimensions in () are Millimeters
Drawings are for reference only, consult Ashcroft for specific dimensional drawings.

Double Block and Bleed OS&Y Bolted Bonnet Design MG Monoflange



MG Dimension Table		
Flange Type	D	X
1/2 150RF	3.88 (98.6)	1.44 (36.6)
1/2 300RF	3.88 (98.6)	1.44 (36.6)
1/2 600RF	3.88 (98.6)	1.63 (41.4)
1/2 900RF	4.75 (120.7)	1.63 (41.4)
1/2 1500RF	4.75 (120.7)	1.63 (41.4)
1/2 2500RF	5.25 (133.4)	1.63 (41.4)

Block and Bleed OS&Y Bolted Bonnet Design MD Monoflange

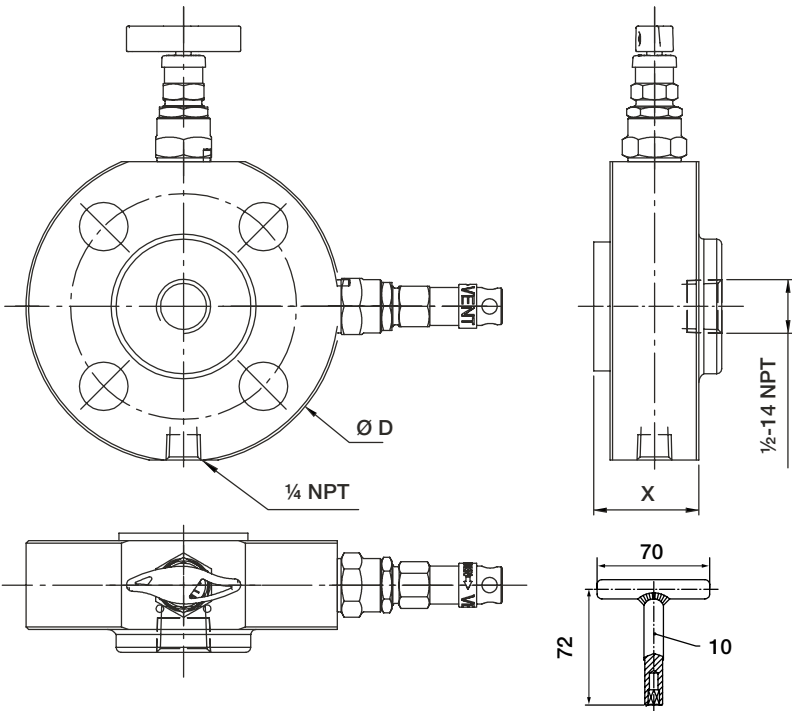


MD Dimension Table		
Flange Type	D	X
1/2 150RF	3.88 (98.6)	1.44 (36.6)
1/2 300RF	3.88 (98.6)	1.44 (36.6)
1/2 600RF	3.88 (98.6)	1.63 (41.4)
1/2 900RF	4.75 (120.7)	1.63 (41.4)
1/2 1500RF	4.75 (120.7)	1.63 (41.4)
1/2 2500RF	5.25 (133.4)	1.63 (41.4)

V02 Series Monoflange

Dimensions in () are Millimeters
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Block and Bleed Screwed Design
MN Monoflange



MN Dimension Table		
Flange Type	D	X
1/2 150RF	3.50 (88.9)	1.32 (33.6)
1/2 300RF	3.75 (95.3)	1.32 (33.6)
1/2 600RF	3.75 (95.3)	1.51 (38.4)
1/2 900RF	4.75 (120.7)	1.51 (38.4)
1/2 1500RF	4.75 (120.7)	1.51 (38.4)
1/2 2500RF	5.25 (133.4)	1.51 (38.4)