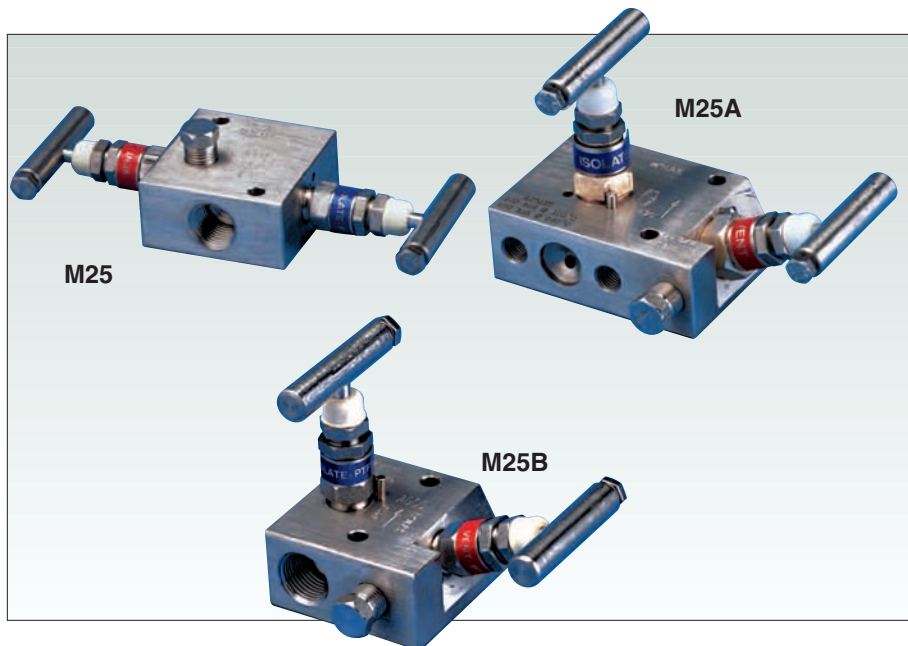


Static Pressure Manifolds – M25, M25A, M25B, M251 and M251B

Product Overview

The M25, M25A, M25B, M251 and M251B are versatile two-valve manifolds with a variety of inlet and outlet connections. Lightweight and with compact dimensions, M25/M251 manifolds enable isolation, calibration and venting in single unit.

Especially designed for use with pressure transmitter, gauges and switches, the versatile M25 two-valve manifold combines an isolation valve and vent/calibrate valve in a single unit. Process connections are either threaded or flanged. Instrument connections are available threaded with either NPT, BSP Tr or BSF threads. M25 has a threaded 1/4-inch vent/calibrate port, fitted with a plug as standard. Suitable for pressures up to 10,000 psig [689 barg] (for M251) and temperatures of up to 1000°F [538°C]. The M25/M251s are available with standard, high pressure or high temperature valve bonnets.



Applications

- Static pressure instrument mounting to threaded connection. (M25, M251 M25B and M251B)
- Gauge/instrument isolation.
- Vent or calibrate to separate threaded port.
- Liquid and vapor service.
- Static pressure instrument mounted to flanged/futbol process connection. (M25A)

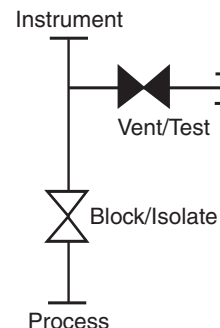
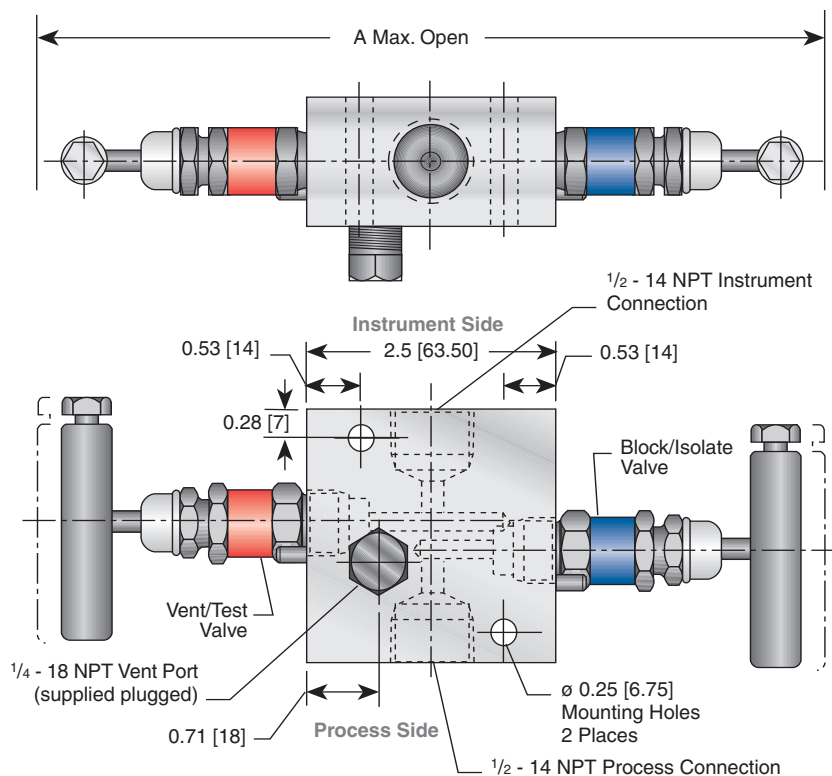
- **Teflon® or GRAFOIL® packing below stem threads** prevents lubricant washout and thread corrosion.
- **Back seat stem** prevents stem blowout or accidental removal while in operation.
- **Threaded vent ports** allows vent to be safely piped away, supplied plugged as standard.
- **Manifold mounting**, all manifolds are supplied with mounting holes as standard to enable pipe bracket mounting.

Features and Benefits

- **Remote mounting compact design** requires a minimum of space for operation and installation with fewer potential leak points.
- **Installation costs reduced** by manifolding the valves, thereby eliminating several components essential for 'piping-up.'
- **Ball end stem** is free-swiveling which ensures perfect alignment, providing repetitive bubble-tight shutoff and long life.

Static Pressure Manifolds – M25 and M251 Specifications

M25 and M251 Dimensions, inches [mm] Female x Flange – Front Vent



Dimensions, inches [mm]

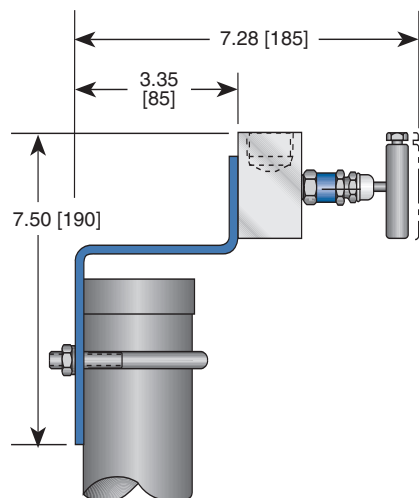
Packing	A
Teflon®	7.87 [200]
GRAFOIL®	8.98 [228]

Notes

1. Approximate valve weight: 2.2 lb [1.0 kg].
0.187-inch [4.8 mm] diameter orifice.
Valve C_v 0.52 maximum.
2. The M25 and M251 are supplied as standard with two 0.26-inch [6.7 mm] diameter mounting holes.

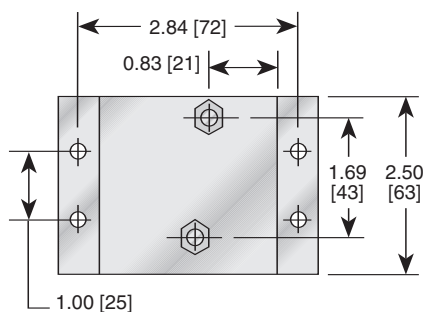
AGCO Mount MB51

The AGCO Mount principle is to mount the manifold not the instrument enabling easier loop installation and lower on-going maintenance costs. M25A, M25B and M251B are available with an MB51 AGCO Mount suitable for 2-inch NB pipe stand. Supplied in zinc plated CS as standard.



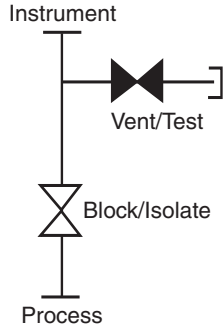
Wall Mounting Bracket BM3

A wall mounting bracket is available suitable for M25A, M25B, M251B.



Static Pressure Manifolds – M25A Specifications

M25A Dimensions, inches [mm] Flanged x Threaded (Bottom Vent)

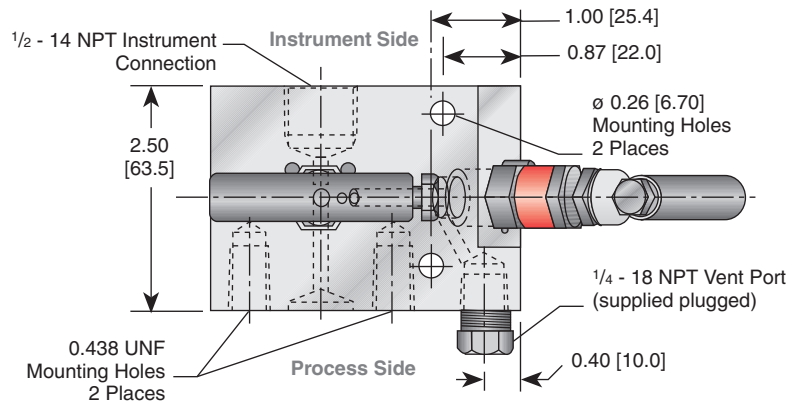
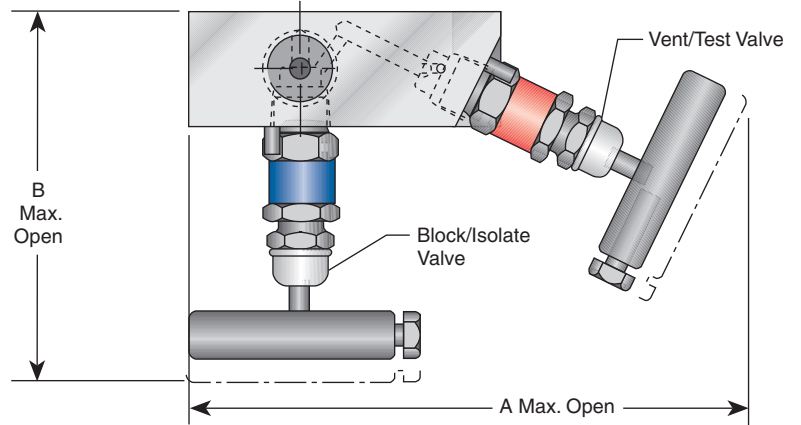


Dimensions, inches [mm]

Packing	A	B
Teflon®	6.26 [159]	3.95 [100]
GRAFOIL®	6.70 [170]	4.57 [116]

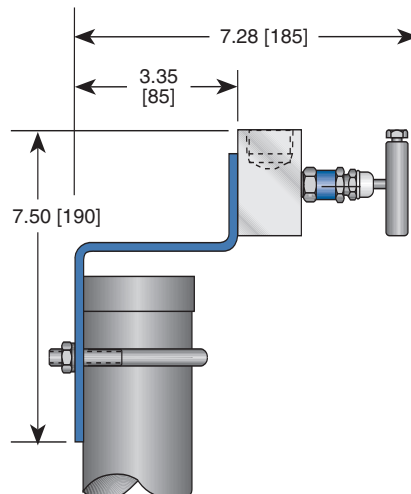
Notes

1. Approximate valve weight: 3.3 lb [1.5 kg].
0.187-inch [4.8 mm] diameter orifice.
Valve C_v 0.52 maximum.
2. The M25A is supplied as standard with two
0.26-inch [6.7 mm] diameter mounting holes.



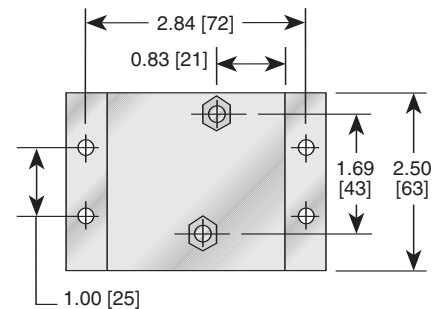
AGCO Mount MB51

The AGCO Mount principle is to mount the manifold not the instrument enabling easier loop installation and lower on-going maintenance costs. M25A, M25B and M251B are available with an MB51 AGCO Mount suitable for 2-inch NB pipe stand. Supplied in zinc plated CS as standard.



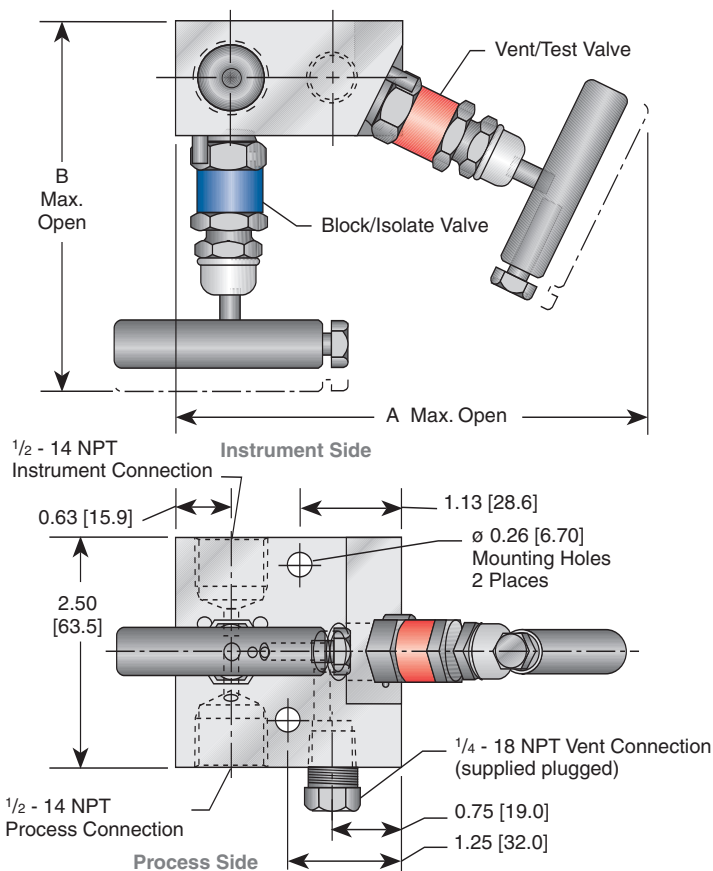
Wall Mounting Bracket BM3

A wall mounting bracket is available suitable for M25A, M25B, M251B.



Static Pressure Manifolds – M25B and M251B Specifications

M25B and M251B Dimensions, inches [mm] Threaded x Threaded (Bottom Vent)

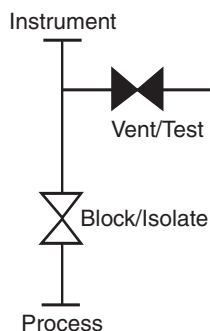


Dimensions, inches [mm]

Packing	A	B
Teflon®	5.38 [134]	3.95 [100]
GRAFOIL®	5.71 [145]	4.57 [116]

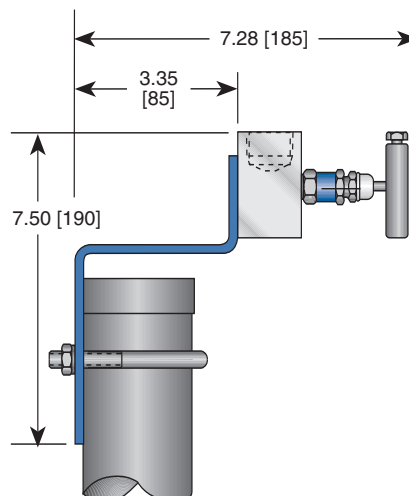
Notes

1. Approximate valve weight: 2.2 lb [1.0 kg].
0.187-inch [4.8 mm] diameter orifice.
Valve C_v 0.52 maximum.
2. The M25B and M251B are supplied as standard with two 0.26-inch [6.7 mm] diameter mounting holes.



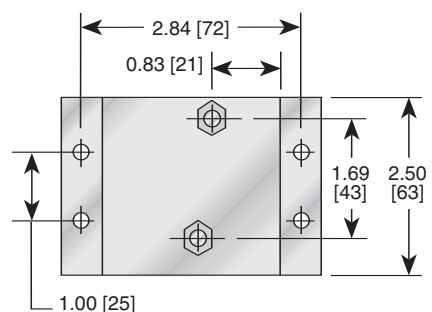
AGCO Mount MB51

The AGCO Mount principle is to mount the manifold not the instrument enabling easier loop installation and lower on-going maintenance costs. M25A, M25B and M251B are available with an MB51 AGCO Mount suitable for 2-inch NB pipe stand. Supplied in zinc plated CS as standard.



Wall Mounting Bracket BM3

A wall mounting bracket is available suitable for M25A, M25B, M251B.



Static Pressure Manifolds – M25, M25A, M25B, M251 and M251B Specifications

Notes

1. Threaded connection: vent supplied with blanking plug as standard.
2. Approximate valve weight: 3.3 lb [1.5 kg]. 0.187-inch [4.8 mm] diameter orifice. Valve C_v 0.52 maximum.
3. For CS valves with GRAFOIL® packing body and bonnet material is A105. For CS valves non-wetted parts are all CS.
4. SG (Sour Gas) meets the requirements of NACE MR0175/ISO 15156-3 Corrigendum 2 (for Chloride conditions \leq 50 mg/l [ppm]) and NACE MR0103-2005.
5. SG3 (Sour Gas) meets the requirements of NACE MR0175/ISO 15156-3 Corrigendum 2 (for Chloride conditions $>$ 50 mg/l [ppm]).

Valve Bonnet Identification

Dust Cap Coding: The valve bonnet dust caps are color coded to identify the gland packing/stem.

- White:* Standard bonnet assembly Teflon® packing.
- Blue:* High pressure bonnet assembly Teflon® packing.
- Green:* Sour Gas service Teflon® packing.

Connections¹

Standard Connections

Process and instrument M25, M251 M25B and M251B:

Threaded 1/2-inch NPT to ANSI/ASME B1.20.1.

M25A has a flanged inlet connection.

Vent Threaded 1/4-inch NPT to ANSI/ASME B1.20.1.

Other Connections

Threaded BSP Tr to BS21
BSP F to BS2779

Please consult the factory for availability.

Special Severe Service Materials

Duplex UNS S31803

6MO UNS S31254

Hastelloy® C276

Incoloy® 825

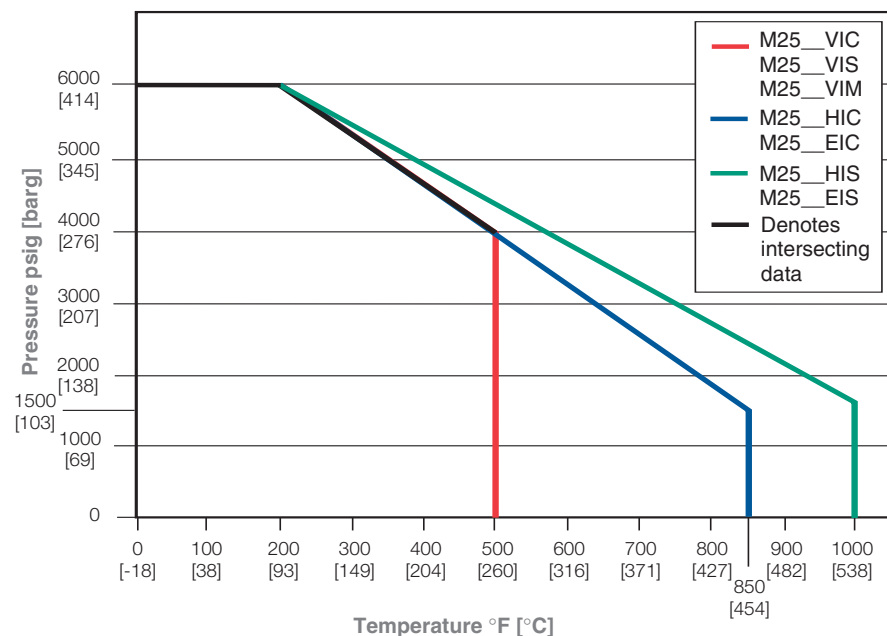
CS, SS and Monel® valves are suitable for most process applications, however for severe service, M25/M251 valves are also available in the above exotic materials. For any other material requirements, please consult the factory.

Standard Materials

Valve ²	Body	Bonnet	Stem	Ball Seat
CS ³	A108	A108	303 SS	17-4PH
SS	316 SS	316 SS	316 SS	316 SS
Monel®	Monel® 400	Monel® 400	Monel® 400	Monel® K500
SG ⁴	316 SS	316 SS	Monel® 400	Monel® K500
SG ⁵	Hastelloy® C276	Hastelloy® C276	Hastelloy® C276	Elgiloy®

Static Pressure Manifolds – M25, M25A, M25B, M251 and M251B Specifications

Pressure vs. Temperature - M25, M25A and M25B

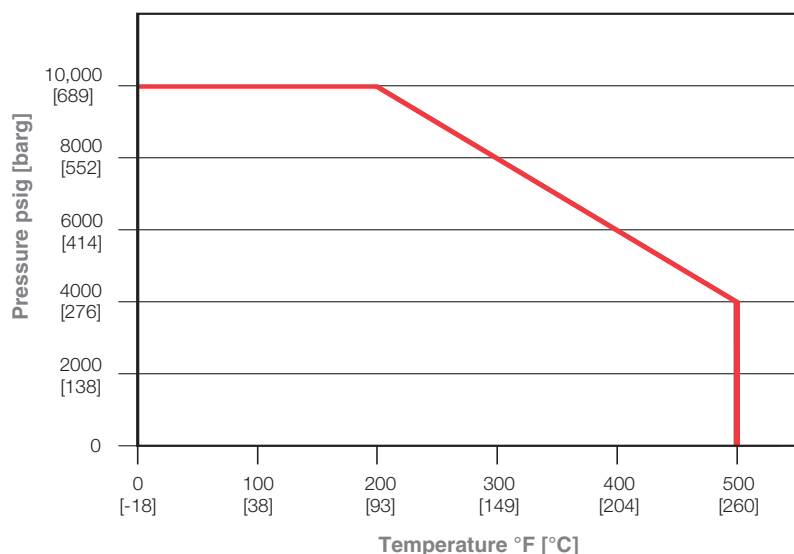


Pressure and Temperature Ratings
– M25, M25A and M25B

Valve	Teflon® Bonnet (standard)
CS, SS and Monel®	6000 psig @ 200°F [414 barg @ 93°C] 4000 psig @ 500°F [276 barg @ 260°C]

Valve	High Temperature
CS	6000 psig @ 200°F [414 barg @ 93°C] 1500 psig @ 850°F [103 barg @ 454°C]
SS	6000 psig @ 200°F [414 barg @ 93°C] 1500 psig @ 1000°F [103 barg @ 538°C]

Pressure vs. Temperature - M251 and M251B



Pressure and Temperature Ratings
– M251 and M251B

Valve	High Temperature
SS	10,000 psig @ 200°F [689 barg @ 93°C] 4000 psig @ 500°F [276 barg @ 260°C]

Static Pressure Manifolds – M25, M25A and M25B Specifications

Ordering Information

	M25A	V	I	S	-4	-SG
Valve Type						
M25	– Threaded x Threaded (front vent)					
M25A	– Flanged x Threaded (bottom vent)					
M25B	– Threaded x Threaded (bottom vent)					
Packing						
V	– Teflon® (patented protected)					
H	– GRAFOIL®					
E	– Low Emissions Graphite					
Seat						
I	– Integral					
Body Material						
C	– CS					
S	– SS					
M	– Monel®					
J	– Hastelloy®					
Process Connections						
M25A – Inlet x Outlet						
4	– Flanged x 1/2-inch FNPT					
M25/M25B – Inlet x Outlet						
2	– 1/4-inch FNPT x 1/4-inch FNPT					
4	– 1/2-inch FNPT x 1/2-inch FNPT					

Options

- AL – Arctic Lubricant (low temperature service -70°F) - not available for CS valves
- AT – Tamper-proof Bonnet
- BL – Bonnet Lock Device (Accessories, page 154)
- BM3 – Wall Mounting Bracket (M25A, M25B and M251B only)
- K – Key for -AT
- LAT – Lockable Tamper-proof Bonnet
- MB51– AGCO Mount Kit for 2-inch pipe stand mounting (page 38)
- OC – Cleaned for oxygen service
- PD – Padlock for -LAT
- SG – (Sour Gas) meets the requirements of NACE MR0175/ISO 15156-3 Corrigendum 2 (for Chloride conditions ≤ 50 mg/l [ppm]) and NACE MR0103-2005 (SS valves only)
- SG3 – (Sour Gas) meets the requirements of NACE MR0175/ISO 15156-3 Corrigendum 2 (for Chloride conditions > 50 mg/l [ppm])
- ST – Stellite Ball Ended Stem
- SP – Special Requirements - please specify

Static Pressure Manifolds – M251 and M251B Specifications

Ordering Information

	M251	V	I	S	-4	-SG
Valve Type						
M251	– Threaded x Threaded (front vent)					
M251B	– Threaded x Threaded (bottom vent)					
Packing						
V	– Teflon® (patented protected)					
Seat						
I	– Integral					
Body Material						
C	– CS					
S	– SS					
M	– Monel®					
J	– Hastelloy®					
Process Connections (Inlet x Outlet)						
2	– 1/4-inch FNPT x 1/4-inch FNPT					
4	– 1/2-inch FNPT x 1/2-inch FNPT					
Options						

- AL – Arctic Lubricant (low temperature service -70°F) - not available for CS valves
- AT – Tamper-proof Bonnet
- BL – Bonnet Lock Device (Accessories, page 154)
- BM3 – Wall Mounting Bracket (M251B only)
- K – Key for -AT
- LAT – Lockable Tamper-proof Bonnet
- MB51 – AGCO Mount Kit for 2-inch pipe stand mounting (page 38)
- OC – Cleaned for oxygen service
- PD – Padlock for -LAT
- SG – (Sour Gas) meets the requirements of NACE MR0175/ISO 15156-3 Corrigendum 2 (for Chloride conditions ≤ 50 mg/l [ppm]) and NACE MR0103-2005 (SS valves only)
- SG3 – (Sour Gas) meets the requirements of NACE MR0175/ISO 15156-3 Corrigendum 2 (for Chloride conditions > 50 mg/l [ppm])
- ST – Stellite Ball Ended Stem
- SP – Special Requirements - please specify