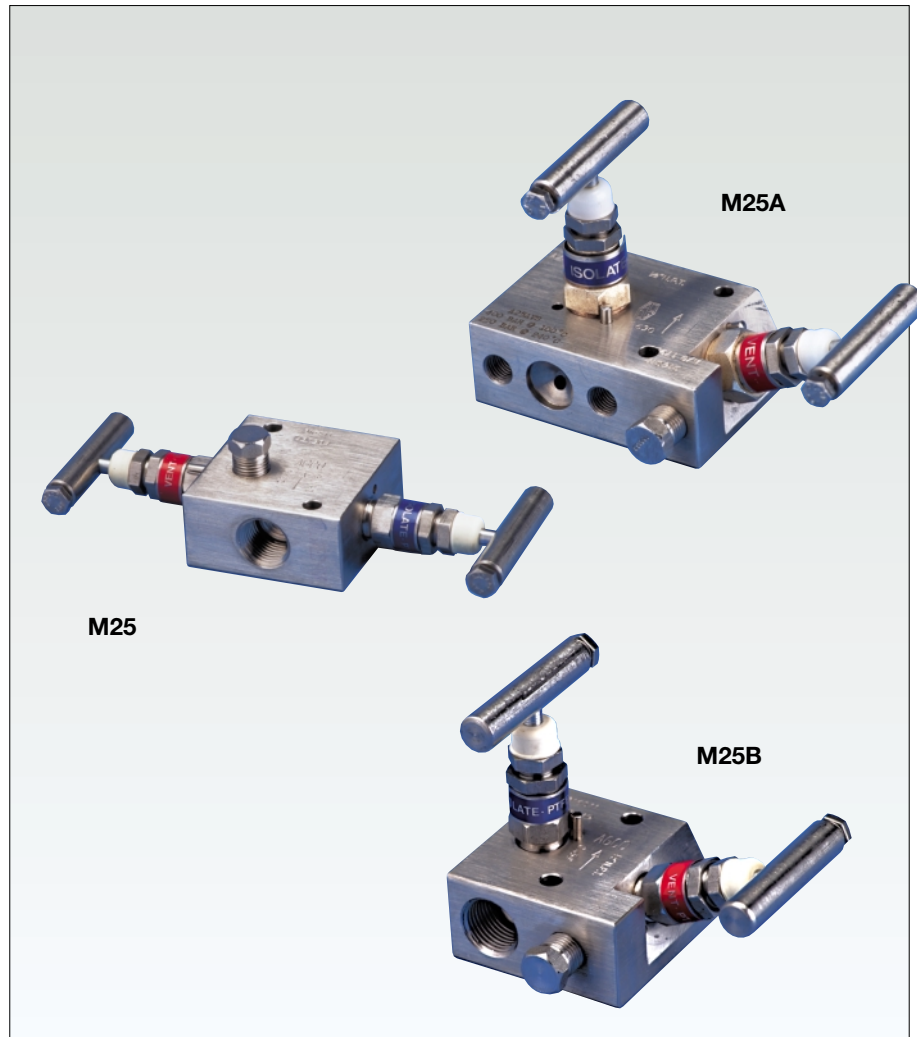


### Features and Benefits

- **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.
- **Teflon® or GRAFOIL® Packing below stem threads** prevents lubricant washout and thread corrosion.
- **Back seat stem** prevents stem blow-out 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.

### Product Overview

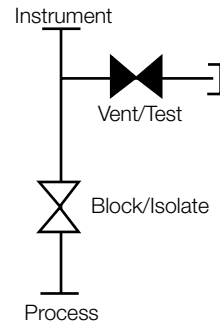
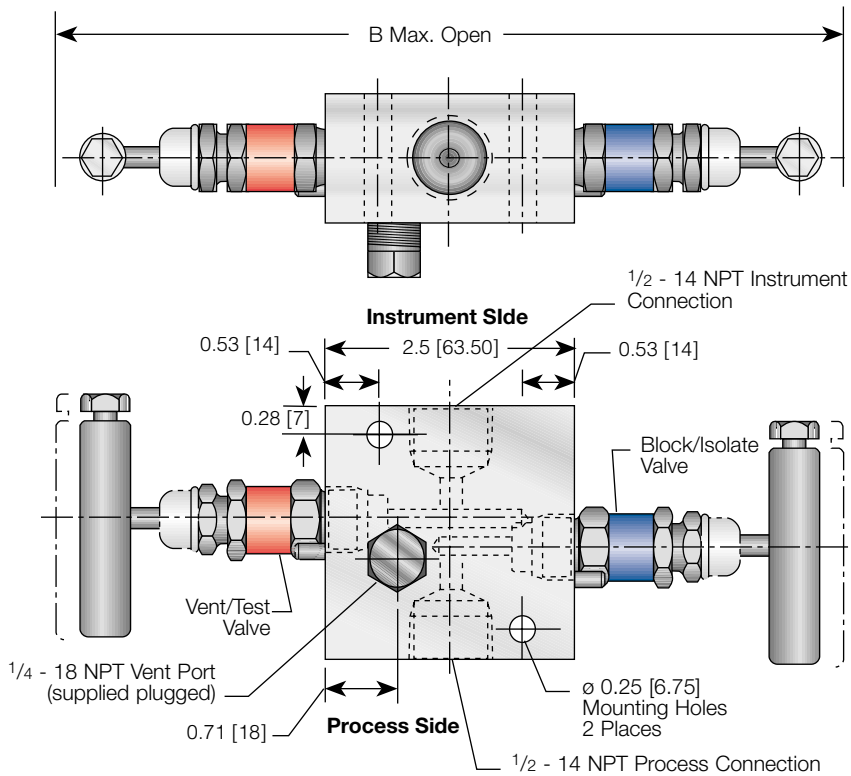
The M25, M25A, M25B, M251 and M251B are versatile two-valve manifolds with a variety of inlet and outlet connections. Lightweight and with compact dimensions, M25/M251 manifolds enable isolation, calibration and venting in single unit. Especially designed for use with pressure transmitter, gauges and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

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



#### Dimensions, inches [mm]

##### Packing A

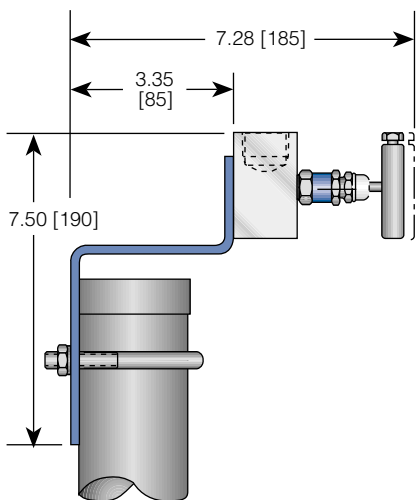
Teflon®	7.87 [200]
GRAFOIL®	8.98 [228]

#### 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.

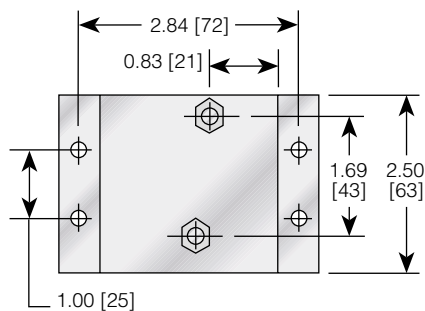
#### AGCO Mount MB51

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 pipestand. Supplied in zinc plated CS as standard.

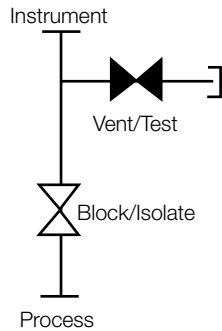


#### Wall Mounting Bracket BM3

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



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

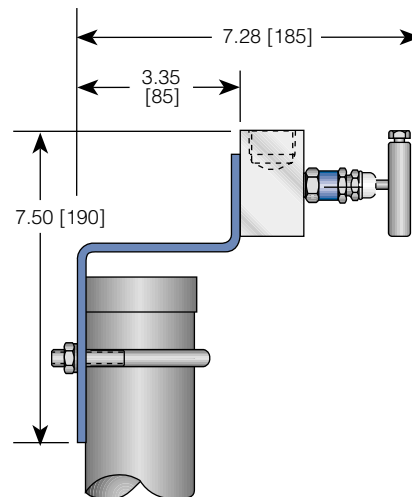


#### Dimensions, inches [mm]

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

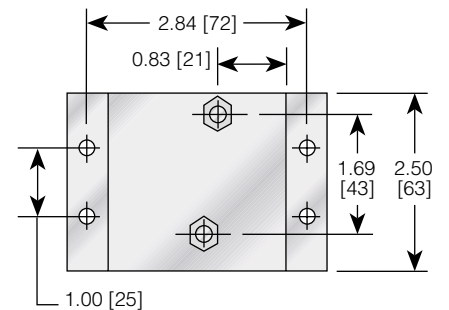
#### AGCO Mount MB51

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 pipestand. Supplied in zinc plated CS as standard.



#### Wall Mounting Bracket BM3

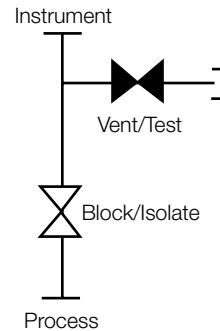
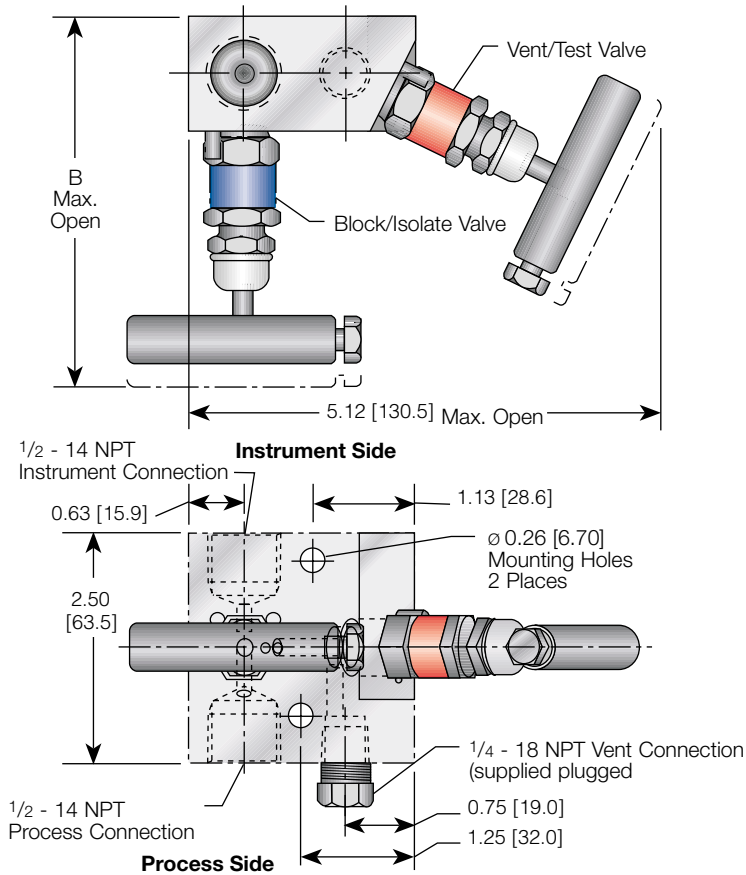
A wall mounting bracket is available suitable for M25A, M25B, M251B.



#### 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.

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

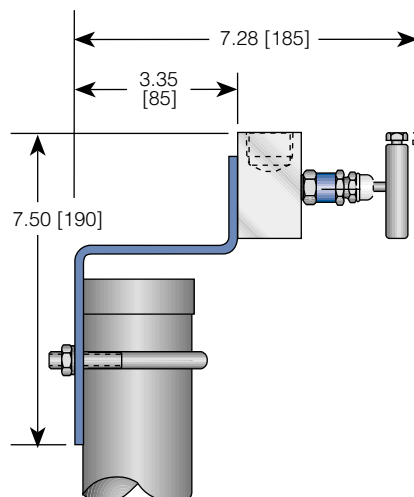


Dimensions, inches [mm]

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

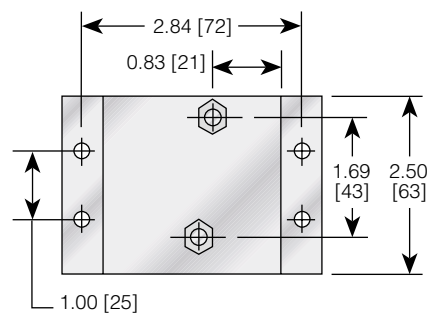
#### AGCO Mount MB51

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 pipestand. Supplied in zinc plated CS as standard.



#### Wall Mounting Bracket BM3

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



#### 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.

**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® packin

**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.

**Connections**

**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.

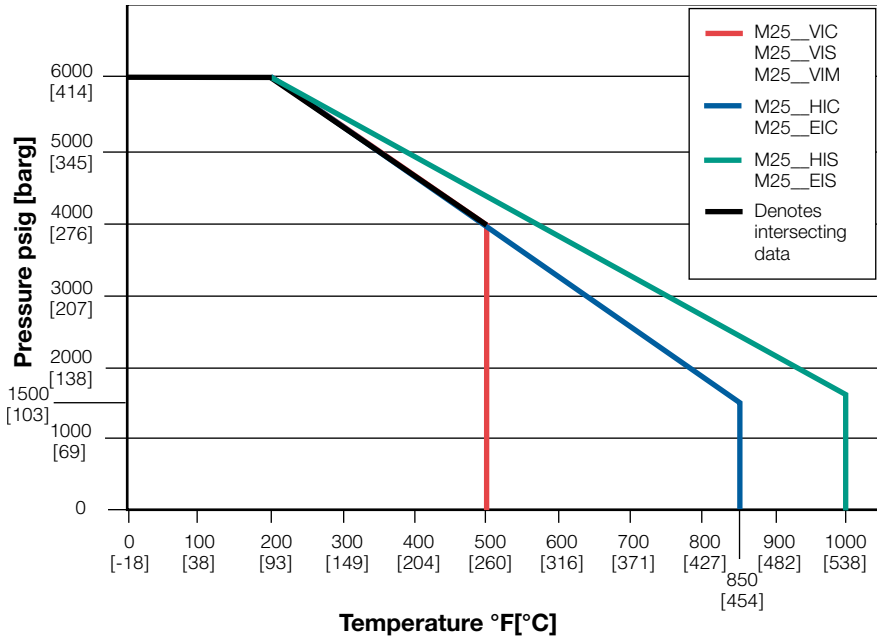
**Standard Materials**

<b>Valve<sup>2</sup></b>	<b>Body</b>	<b>Bonnet</b>	<b>Stem</b>	<b>Ball Seat</b>
CS <sup>1</sup>	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 <sup>1</sup>	316 SS	316 SS	Monel® 400	Monel® K500

**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<sub>v</sub> 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. For SS, SG (Sour Gas meets the requirements of NACE MR0175-latest revision) and Monel® valves non-wetted parts are all austenitic SS.

**Pressure vs. Temperature - M25, M25A and M25B**



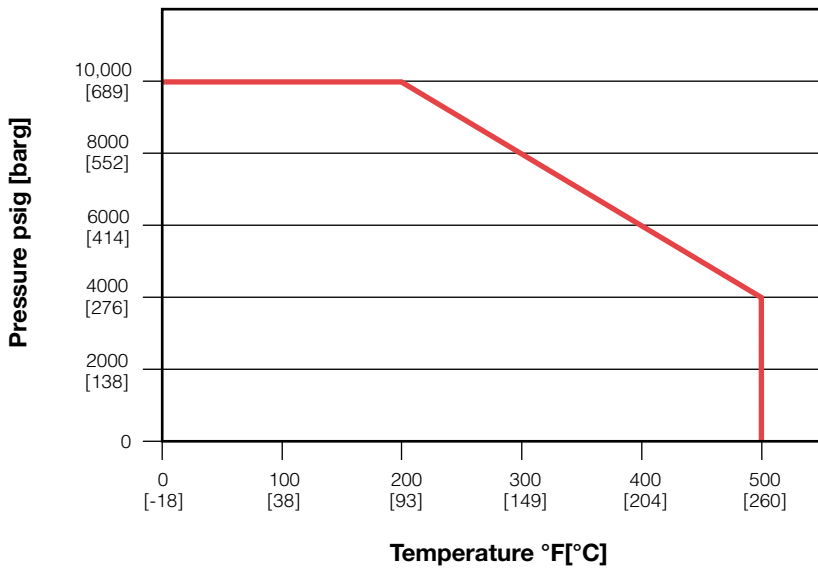
**Pressure and Temperature Ratings**

**- M25, M25A and M25B**

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

**Ordering Information**

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

**Options**

- BL Bonnet Lock Device (Accessories, page 146)
- K Key for TP
- MB3 Wall Mounting Bracket (M25A, M25B and M251B only)
- MB51 AGCO Mount 2NB pipestand
- OC Cleaned for Oxygen Service.
- PD Padlock for TPL
- SG Sour Gas meets the requirements of NACE MR0175-latest revision. (SS valves only)
- ST Stellite Ball Ended Stem
- TP Tamper Proof Bonnet
- TPL Lockable Tamper Proof Bonnet
- SP Special Requirements - please specify

### Ordering Information

	M251	V	I	S	-4	-SG
<b>Valve Type</b>						
M251 – Threaded x Threaded (front vent)						
M251B – Threaded x Threaded (bottom vent)						
<b>Packing</b>						
V – Teflon® (patented protected)						
<b>Seat</b>						
I – Integral						
<b>Body Material</b>						
C – CS						
S – SS						
M – Monel®						
<b>Process Connections (Inlet x Outlet)</b>						
2 – 1/4-inch FNPT x 1/4-inch FNPT						
4 – 1/2-inch FNPT x 1/2-inch FNPT						
<b>Options</b>						
-BL Bonnet Lock Device (Accessories, page 146)						
-K Key for TP						
-MB3 Wall Mounting Bracket (M251B only)						
-MB51 AGCO Mount 2NB pipestand						
-OC Cleaned for Oxygen Service.						
-PD Padlock for TPL						
-SG Sour Gas meets the requirements of NACE MR0175-latest revision.(SS valves only)						
-ST Stellite Ball Ended Stem						
-TP Tamper Proof Bonnet						
-TPL Lockable Tamper Proof Bonnet						
-SP Special Requirements - please specify						