

Pressure Transmitter Accessories

Instrument Valves & Manifolds

- Full line of block & bleed valves and manifolds covering standard, power (ASME B31.1) and gas metering application
- Economical block & bleed valves for gauge pressure
- 2-valve manifolds for traditional style pressure transmitter
- 3-valve manifolds for differential pressure and multivariable transmitter
- 5-valve manifolds for differential pressure and multivariable transmitter



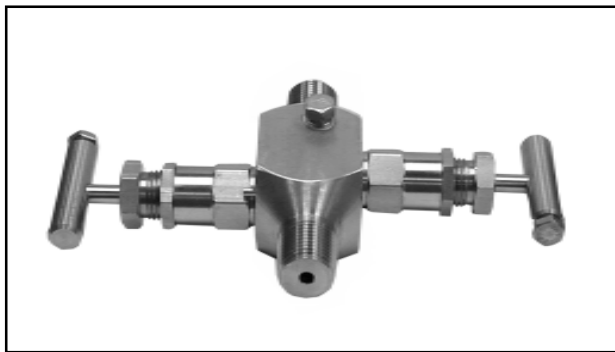
Accessories
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Block & Bleed Valve - HG35 / PG35

**For use with - ABB 614EA/614EG
ABB 624EA/624EG**

The HG35 with a male inlet by male outlet, meets the application requirements for a block and bleed valve without the need for a close nipple when connecting to a female port on a gauge or absolute pressure transmitter.

Note:
Use Model PG35 when customer requires a Power (ASME B31.1) block & bleed valve



Material	Conns	Packing	Rating
S/S	MNPT X MNPT	T	1
		G	2

* Process x Instrument

Ratings: For all manifolds except HM77

- Teflon Packing
- 6980 psig @ 100 F
4800 psig @ 450 F
- Grafoil Packing
- 6980 psig @ 100 F
3525 psig @ 1000 F

- HM77
- 1500 psig @ 100 F
500 psig @ 200 F

2-Valve Manifold - HM50 / PM50

**For use with - ABB 611EA/611EG
ABB 621EA/621EG**

HM50: a single flanged gauge or absolute pressure manifold that incorporates a primary block valve, a bleed valve and a secondary shutoff valve into a single valve assembly. The secondary shutoff and bleed valve also allows the transmitter to be removed or bled without requiring additional valving. The HM50 provides separate instrument bleed and a calibration entry port to allow for fast, accessible zeroing and calibration of transmitter. With the installation of a tube fitting/capa or a quick connect coupling, zeroing and calibration can be performed without a wrench with a substantial reduction in the time required to perform this procedure. The HM50 features a threaded inlet and flanged outlet, allowing the transmitter to bolt directly to the manifold. This design results in quick installation and allows a technician to remove the transmitter for service without disassembling the associated piping.

Note:
Use Model PM50 when customer requires a Power (ASME B31.1) manifold.



Material	Conns	Packing	Rating
S/S	FNPT X Flange	T	1
		G	2

* Process x Instrument

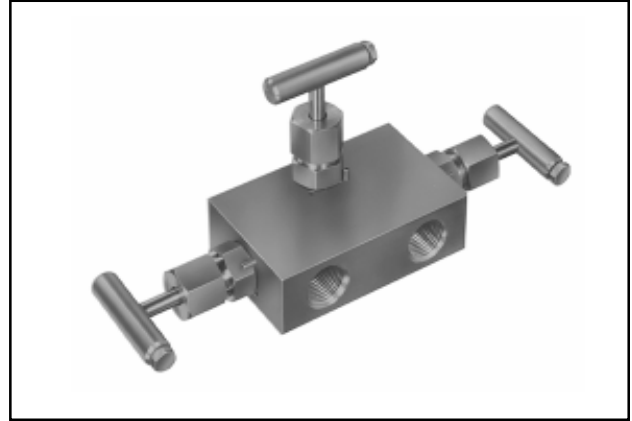
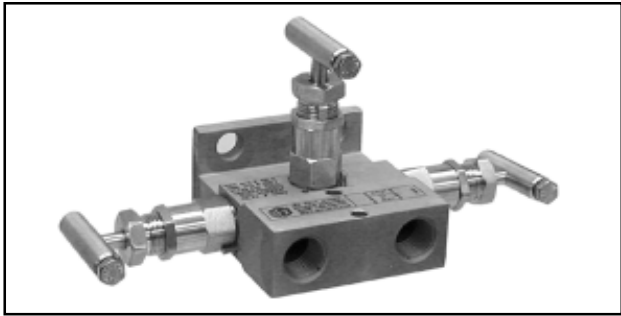
Packing Code

T = Teflon
G = Grafoil
Use Grafoil if process temperature exceeds 450°F (232°C)

**3-Valve Manifold - HM53 / HM54 / HM45
PM53 / PM54 / PM45**

**For use with - 621ED/621EE
611ED/2000T**

HM53 Single Flanged Three Valve Manifold: Of importance in this design is the inclusion of a single mounting flange that allows the transmitter to bolt directly to the manifold which eliminates the piping of excess tubing and nipples. A mounting kit may also be specified to allow for installation to a pipe stand.



*Note:
When customer requires manifolds to meet power (ASME B31.1) use models PM53, PM54, PM45 or PM76. These models come standard with grafoil packing.*

HM54 Double Flanged Three Valve Manifold: For compact, close-coupled installations, the manifold bolts directly to the instrument and can be mated directly to the orifice flange using futbol flanges and short nipples. For remote installation, tube adapters are used with the futbol, making the installation similar to the HM53.

Material	Model	Conns	Packing	Rating *
S.S.	HM53	FNPT X Flange	T	1
			G	2
	HM54	Flange X Flange	T	1
			G	2
	HM45	FNPT X FNPT	T	1
			G	2

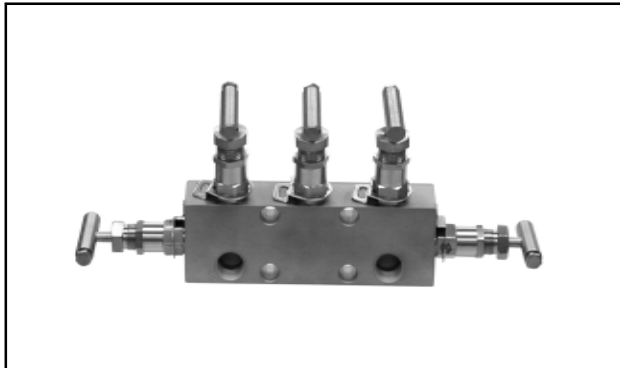
Three valve manifolds perform the block, equalizing and vent requirements of differential pressure applications by providing one compact valve assembly.

HM45 In-Line Three Valve Manifold: Connections are 1/2" NPT on industry standard 2-1/8" center-to-center dimensions.

* See Page 2 for rating

5-valve Manifold - HM76/PM76

The HM76 and PM76 are designed with two isolation valves, one test valve, and two test/purge valves. Designed for direct mounting to transmitter by unique wafer design. The compact design eliminates the requirement for additional tubing or piping from manifold to transmitter.



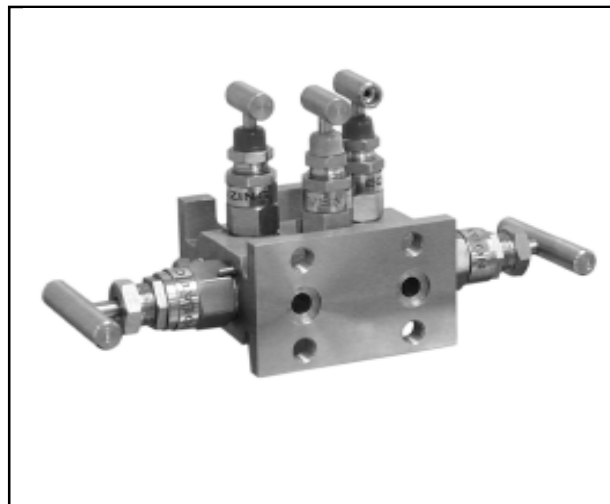
The PM76 come standard with Grafoil packing and is used when customer requires a power (ASME B31.1) manifold.

Material	Conns	Packing	Rating *
S/S	FNPT X Flange	T	1
		G	2

Metering Manifolds - HM77

The HM77 Five Valve Manifold combines two shutoff valves, two equalizing valves, and a vent/calibration valve in a single, compact assembly. The double equalizing arrangement isures against measurement error that can occur from equalizer leakage between high and low pressure connections, making the HM77 ideal for custody transfer applications.

When expensive liquid or gas changes ownership, precise measurement is critical. The smallest leakage from the high side of the manifold to the low side of the manifold can lead to lost revenue due to inaccurate measurement. Therefore, when dealing with custody transfer or other critical flows, a five valve manifold should be used to achieve more accurate measurement. A 3/8" bore reduces pulsation induced spikes to the transmitter. Note: This manifold is designed with soft seats and teflon packing. See rating below.



Material	Conns	Packing	Rating *
SS	FNPT X Flange	T	3
	Flange X Flange		

See Page 2 for rating code

Manifold & Valve Product Designator

Base Model Number					U				4					
	01	02	03	04	05	06	07	08	09	10	11	12	13	14
Base Model Number ¹														
STANDARD	H	M	5	0										
	H	G	3	5										
	H	M	4	5										
	H	M	5	3										
	H	M	5	4										
	H	M	7	6										
	H	M	7	7										
POWER	P	M	5	0										
	P	G	3	5										
	P	M	4	5										
	P	M	5	0										
	P	M	5	3										
	P	M	5	4										
	P	M	7	6										
Seat (Hard Seat is standard except for HM77)														
Hard						1								
Soft (HM77 only)						2								
Body Material (Consult Factory for other material)														
Stainless Steel						U								
Inlet (Process) Size														
1/2"							3							
Flange							9							
Inlet Connection Type														
MNPT (HG35 & PG35 only)								1						
FNPT								3						
Flange (HM54 & PM54 only)								9						
Outlet (Transmitter) Size														
1/2"									3					
Flange									9					
Outlet Connection Type														
FNPT										1				
MNPT (HG35 & PG35 Only)										7				
Flange										9				
Stem / Tip														
316 SS NRT											4			
Seat Material (Consult Factory for soft seat options)														
Integral / Hard												1		
Soft (HM77 only)												2		
Packing														
Teflon													2	
Grafoil													3	
Mounting Kit (Optional)														
Carbon Steel - Part #10052-014-S1Z1														1
Stainless Steel - Part # 10052-014-T1														H
None														-
Instruction Manual (One copy supplied with order at no charge)														

Notes:

1. Power valves meet the requirements of ASME B31.1 and are usually required on Cogeneration or Power Plant projects

NOTES

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