



ISO 9001 : 2008 | PED 97/23/EC

**Aptek Instrumentation Pvt. Ltd.**

[www.aptekengineers.com](http://www.aptekengineers.com)

**Instrumentation Valves, Fittings & Accessories**

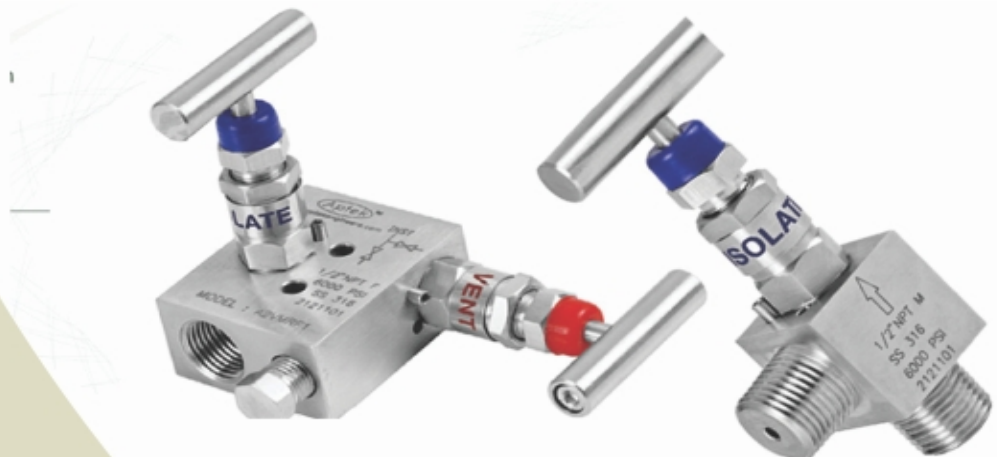
## 02 About us

Aptek Instrumentation Pvt. Ltd. is an ISO 9001 : 2008 company manufacturing a wide range of Instrumentation valves, tube fittings, various Instrumentation accessories..

The company started on a very small scale in 1995, is now having latest manufacturing & testing facility. The company is located in Ahmedabad a top industrial center & rapidly growing metro of India.

As we say "PERFORMANCE UNDER PRESSURE" our products perform really well, not only under pressure but also under different conditions & applications. As a result "APTEK" is now a preferred brand for many reputed OEM's, consultants, Agents, Trading houses & end users globally.

Our Main products are 2,3,5 manifold Valves, Low, High Pressure Ball Valves, Instrumentation Ball Valves, Monoflange instrumentation valves, Needle Valves, Gauge Valves, Instrumentation Tube Fittings, Instrumentation Pipe Fittings, Pressure Gauge Accessories, Thermowells, pressure gauge, Gauge bleed valve, Gauge vent valve, Multi port Gauge valve, Forged Body Gauge valve etc.



## ANV 1

These needle valves are an ideal option for isolating or throttling applications. The self centering, non rotating stem ensures perfect seating. The rigid design gives repetitive bubble tight shut off, easy

Standard Specifications :-

End connection : NPT / BSPP / BSPT Maximum working pressure : 413 bar / 6000 PSI at 1000 C (see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel MOC in accordance with NACE MR0175 is available on request. Monel, Inconel, Hastelloy, Duplex steel are also available on request. Gland packing : PTFE / Graphite



## ANV 2

These valves provide economical & reliable option for isolation & throttling applications. The bonnet assembly has a compact design with one piece rotating stem which is V tipped for accurate flow control.

Standard Specifications :-

End connection : NPT / BSPP / BSPT Maximum working pressure : 413 bar / 6000 PSI at 1000 C (see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel MOC in accordance with NACE MR0175 is available on request. Monel, Inconel, Hastelloy, Duplex steel are also available on request. Gland packing : PTFE / Graphite



## ANV 3

These valves provide angular end connections of 90 degree for specific application. The other design features for this applications are similar to type ANV 1

Standard Specifications :-

End connection : NPT / BSPP / BSPT Maximum working pressure : 413 bar / 6000 PSI at 1000 C (see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel MOC in accordance with NACE MR0175 is available on request. Monel, Inconel, Hastelloy, Duplex steel are also available on request. Gland packing : PTFE / Graphite



## ANV 4

These valves are designed for high pressure applications.

These valves are also used in high pressure testing equipments. Other design features are similar to ANV 1

Standard Specifications :-

End connection : NPT / BSPP / BSPT Maximum working pressure : 690 bar / 10,000 PSI at 1000 C (see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel MOC in accordance with NACE MR0175 is available on request. Monel, Inconel, Hastelloy, Duplex steel are also available on request. Gland packing : PTFE / Graphite



## AGV 1 Gauge Bleed Valve

These valves are designed for safe installations of Pressure gauges. The suitable model can be selected for isolation, calibration or drain purpose

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel MOC in accordance with NACE MR0175 is available on request Monel, Inconel, Hastelloy, Duplex steel are also available on request. Gland packing : PTFE / Graphite End connections : 1/2" NPT / G 1/2 / 1/2" BSPT



## AGV 2 Gauge Vent Valve

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel MOC in accordance with NACE MR0175 is available on request Monel, Inconel, Hastelloy, Duplex steel are also available on request. Gland packing : PTFE / Graphite End connections : 1/2" NPT / G 1/2 / 1/2" BSPT





## AGV 3 Multiport Gauge Valves

Standard Specifications :-

Maximum working pressure : 413 bar/6000 PSI at 1000 C (see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel MOC in accordance with NACE MR0175 is available on request. Monel, Inconel, Hastelloy, Duplex steel are also available on request. Gland packing : PTFE / Graphite Inlet : 1/2" or 3/4" NPT male or 1/2" NPT Female Outlet : 1/2" NPT F x 3.



## AGV 4 Forged Body Gauge Valve

These valves are specially designed in accordance with DIN 16270. The body is forged in union bonnet pattern. The G 1/2 connection provides swivel female outlet for suitable positioning of Pressure gauge. Bleed screw is provided for Vent.

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications) Material : 316 SS / 316L SS / 304 SS / Carbon steel / Brass Gland packing : PTFE / Graphite



## 2 Valve Manifold - Remote Mounting

These manifolds are having one Isolation valve of 1/2" connection & one drain valve of 1/4" or 1/2" connection. The outlet of drain valve can be used for calibration. Compact unit saves space, reduces number of joints resulting in cost reduction. These manifolds are used with Pressure gauges, switches or transmitters. Different models are available as shown below.

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications)

Material : 316 SS / 316L SS / 304 SS / Carbon steel

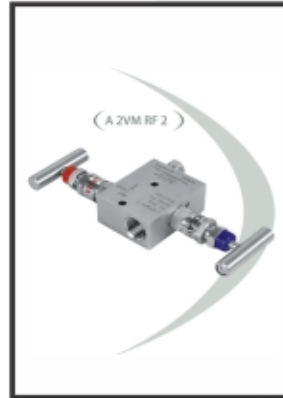
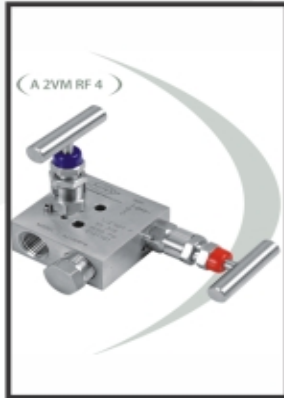
MOC in accordance with NACE MR0175 is available on request.

Gland packing : PTFE / Graphite

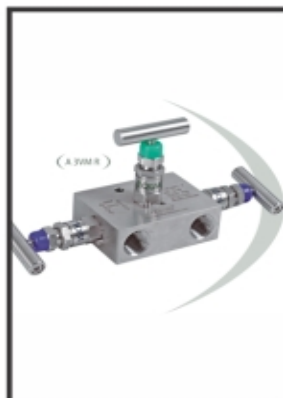
Standard process connection : 1/2" NPT F

Standard instruments connection : 1/2" NPT F

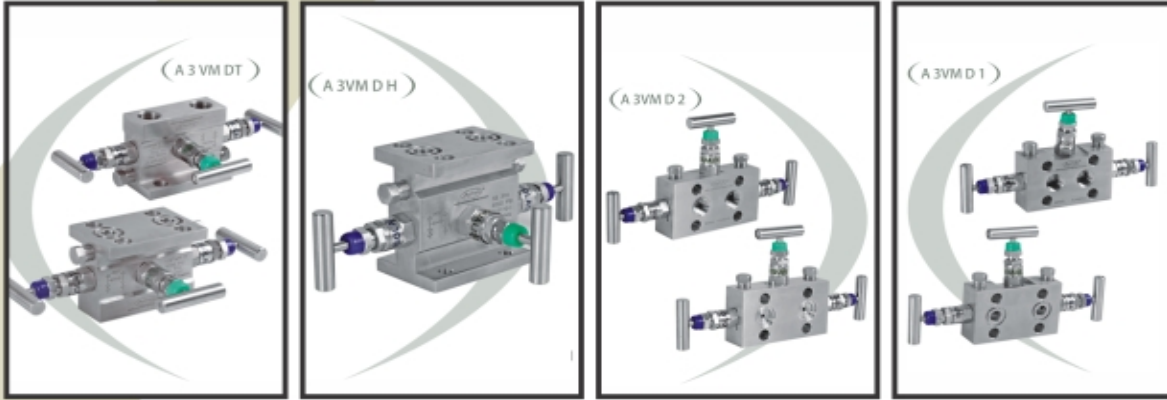
Drain : 1/4" NPT F ( supplied with 1/4" NPT blind plug)



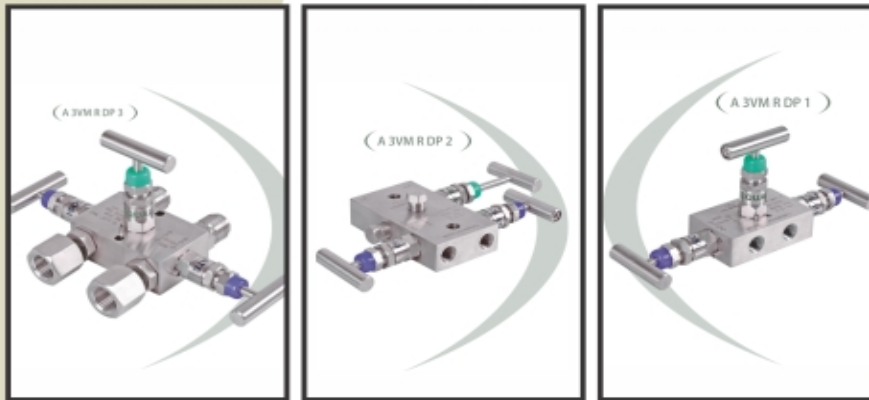
## 2 Valve Manifold - Direct Mounting



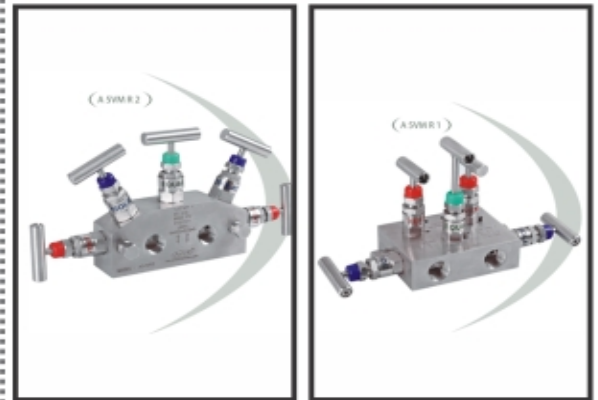
## 3 Valve Manifold - Direct Mounting



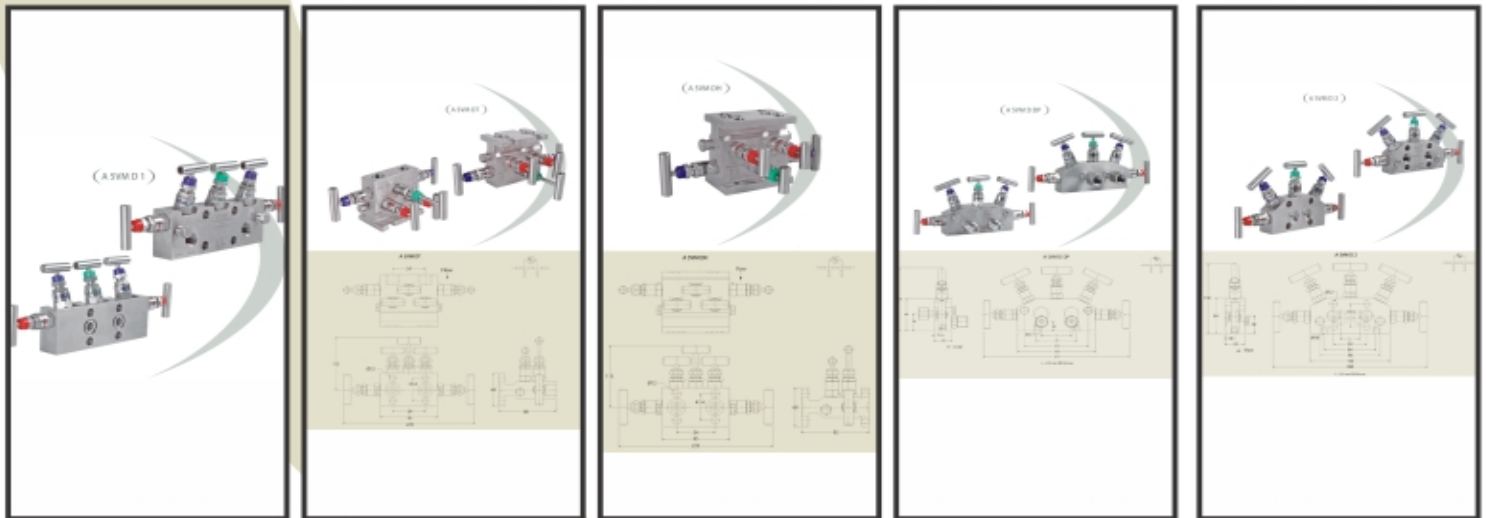
## Special Manifolds for DP Gauges



## 5 Valve Manifold - Remote Mounting



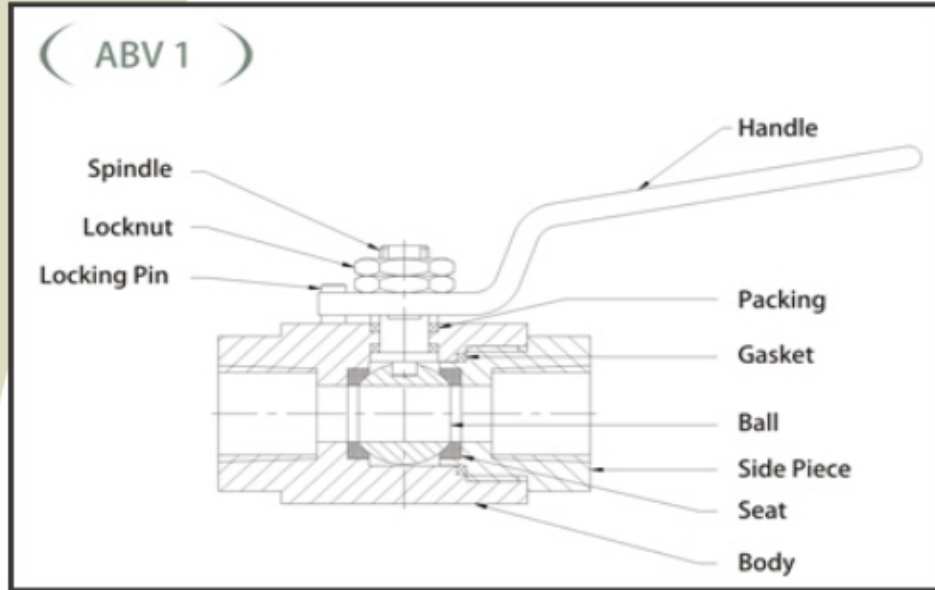
## 5 Valve Manifolds - Direct Mounting



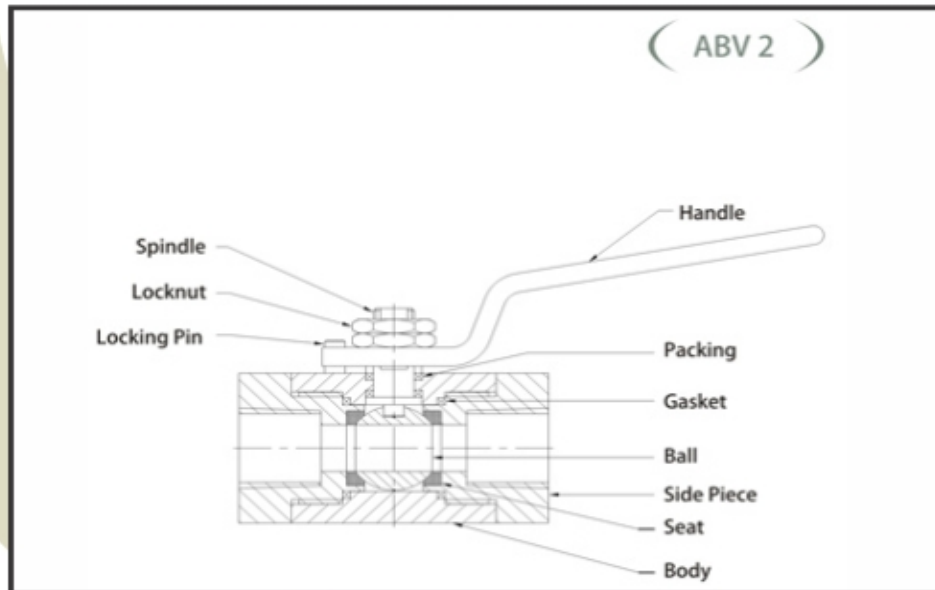


## Low Pressure Ball Valve

Aptek offers 2 types of ball valves for low pressure & high pressure applications



## High Pressure Ball Valve



### Low Pressure Ball Valve

This valves are safe, reliable & economical option for low pressure application.

Standard Specifications :-

Size : 1/4" to 1" End connections : Screwed (NPT / BSPP / BSPT), Socket weld,

Compression tube fitting ends

Material : CS, 316 SS, 304 SS, 316 L SS

Special materials are also available on request

Maximum working pressure : 1500 PSI at 1000 C

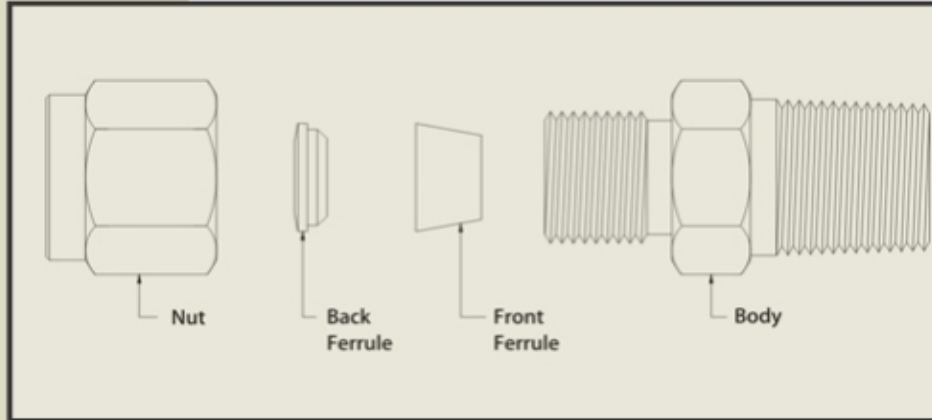
See pressure temperature chart for high temperature applications



### High Pressure Ball Valves



Aptek instrument tube fittings are used for leak proof, torque free seal in different instrumentation & process tubing connections. These products eliminate costly & hazardous leakages.



### Pressure & Temperature rating for Instrumentation Fittings.

Maximum allowable working pressure for fractional size tubing (value in PSI)

Maximum allowable working pressure for metric size tubing (value in bar)

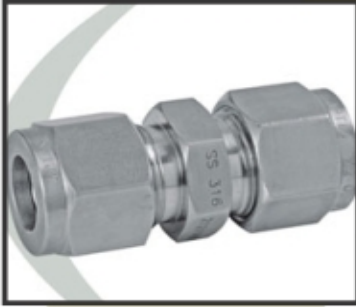
### Male Connector



### Female Connector



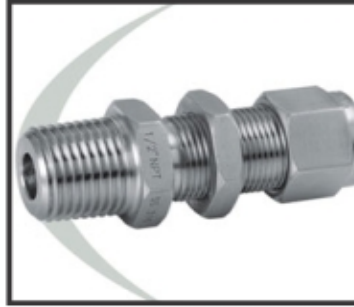
Equal Union



Unequal Union



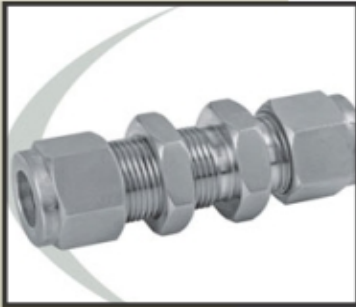
Bulkhead Male Connector



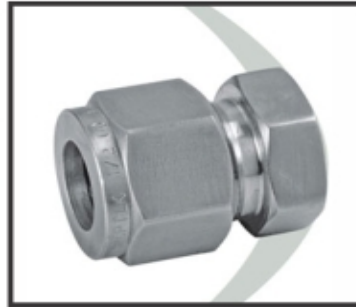
Bulkhead Female Connector



Bulkhead Union



Cap



Plug



Union Elbow



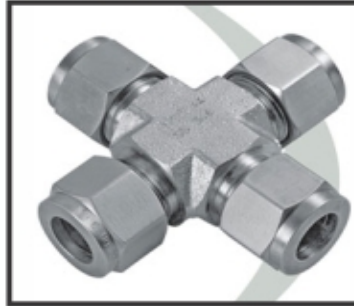
Male Elbow



Female Elbow



Equal Union Cross



Union Tee



Male Branch Tee



Male Run Tee





**Hex Nipple**



**Long Pipe Nipple**



**Hex Reducing Nipple**



**Close Nipple**



**Coupling**



**Reducing Coupling**



**Adapter**



**Reducing Adapter**



**Gauge Adapter**



**Reducing Bushing**



**Pipe Plug**



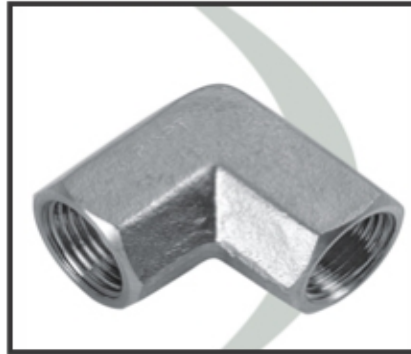
**Pipe Cap**



**Cross**



**Female Elbow**



**Male Elbow**



**Street Elbow**



**Reducing Street Elbow**



**Female Tee**



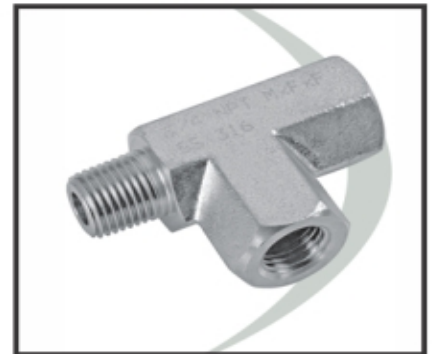
**Male Tee**



**Branch Tee**



**Street Tee**



## Gauge Cocks

This cocks are use with the pressure gauge for isolation and drain purpose.

Standard Specification :-

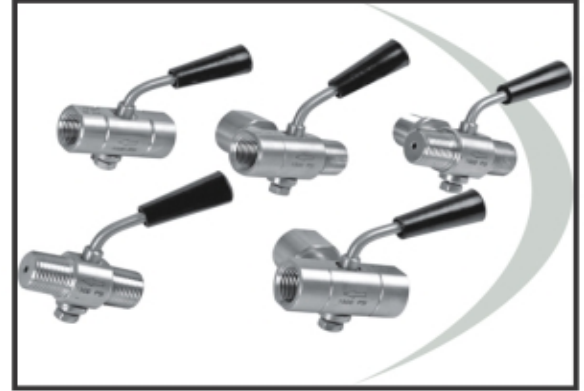
Size : 1/4" to 1/2"

End Connections : NTP / BSPP / BSPT

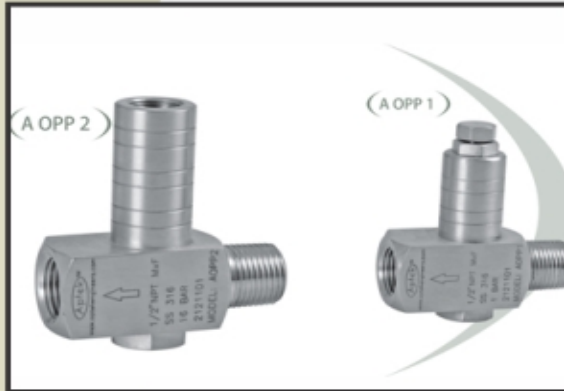
Material : 316 SS / 316L SS / 304 SS / Brass

Seal : PTFE

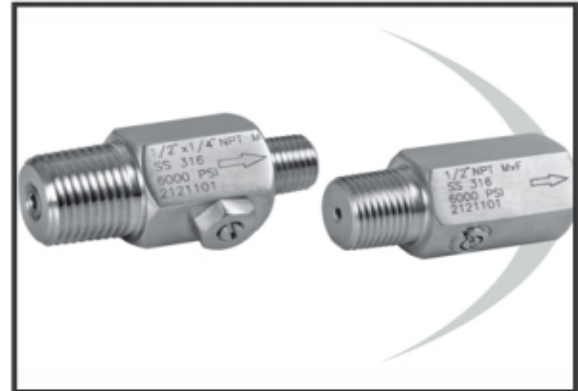
Maximum working pressure : 1500 PSI



## Over Pressure Protectors



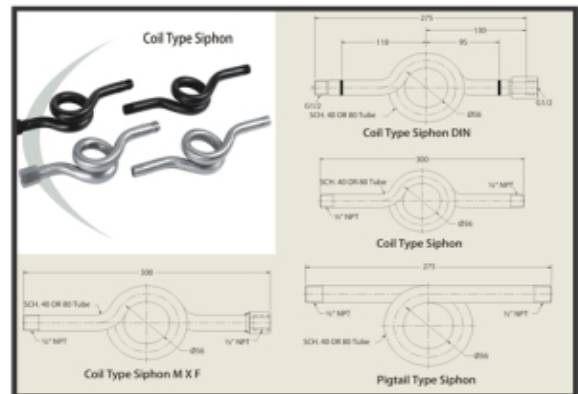
## Pressure Gauge Snubbers



## Pressure Gauge Swivel Adapter



## Pressure Gauge Siphon



### Thermowells

With the help of variable orifice, these gauge snubbers protect pressure gauges by reducing fluctuations.

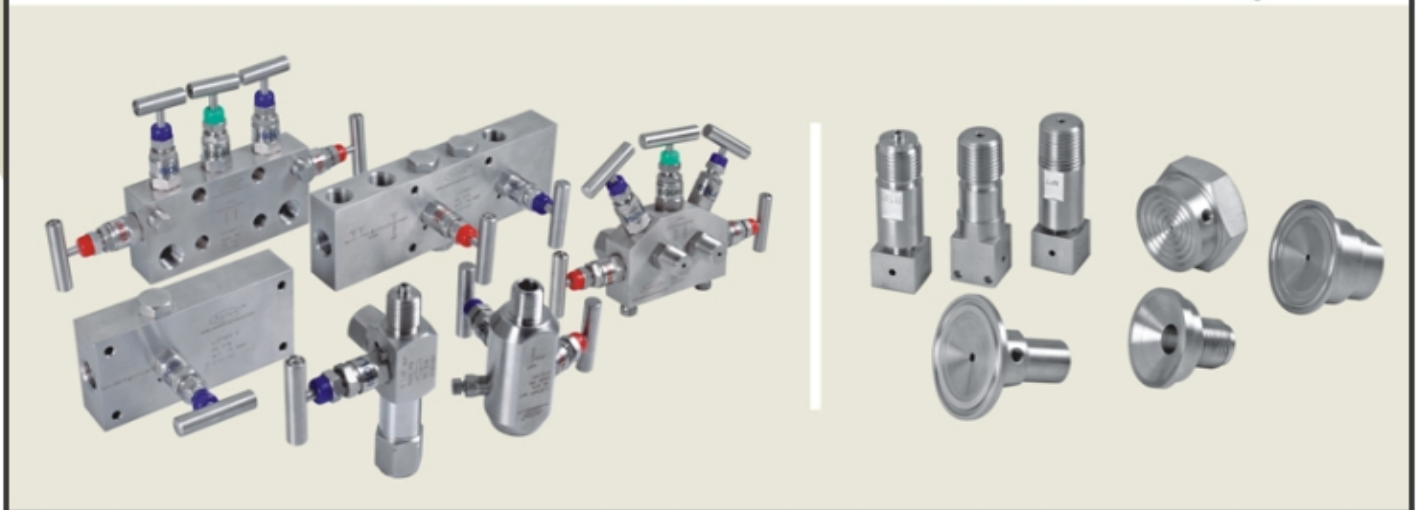
Material :- 316 SS / 304 SS / 316L SS or any special material



Thermowell - Screwed Bar Stock

### Customized Valves and Manifolds

### Components





### 2 Valve Manifold - Remote Mounting

These manifolds are having one Isolation valve of 1/2" connection & one drain valve of 1/4" or 1/2" connection. The outlet of drain valve can be used for calibration. Compact unit saves space, reduces number of joints resulting in cost reduction. These manifolds are used with Pressure gauges, switches or transmitters. Different models are available as shown below.

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications)

Material : 316 SS / 316L SS / 304 SS / Carbon steel

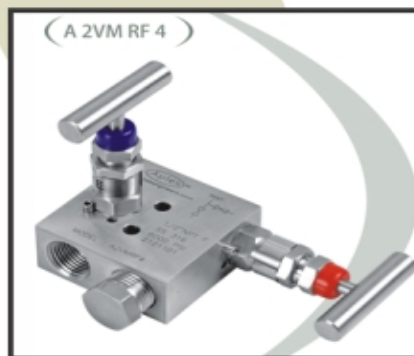
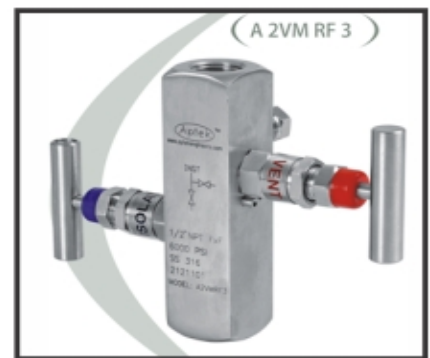
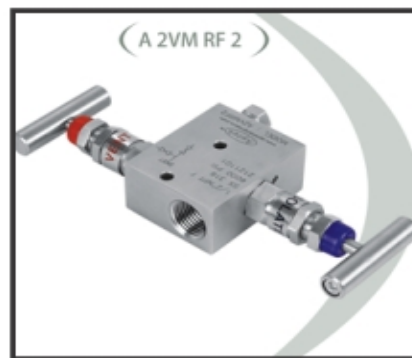
MOC in accordance with NACE MR0175 is available on request.

Gland packing : PTFE / Graphite

Standard process connection : 1/2" NPT F

Standard instruments connection : 1/2" NPT F

Drain : 1/4" NPT F ( supplied with 1/4" NPT blind plug)



### 2 Valve Manifold - Direct Mounting

These manifolds provide a direct mounting feature with isolation & drain/calibration in a single unit. These type of manifolds can be directly mounted on the static pressure transmitter to eliminate several parts & joints. Different models available as shown below.

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications)

Material : 316 SS / 316L SS / 304 SS / Carbon steel

MOC in accordance with NACE MR0175 is available on request.

Monel, Inconel, Hastelloy, Duplex steel are also available on request.

Gland packing : PTFE / Graphite

Standard process connection : 1/2" NPT F

Standard instruments connection: Flanged

Drain : 1/4" NPT F (supplied with 1/4" NPT blind plug)



### 3 Valve Manifold - Remote Mounting

These manifolds are generally used in differential pressure application with Pressure gauges, Pressure switches & pressure transmitters. Two isolation valves & one equalizing valve is provided.

The standard connections are 1/2" NPTF.

The drain connection of 1/4" NPT is provided as an option.

The different models are available as mentioned below.

Standard Specifications :-

Maximum working pressure : 413 bar/6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications)

Material : 316 SS / 316L SS / 304 SS / Carbon steel

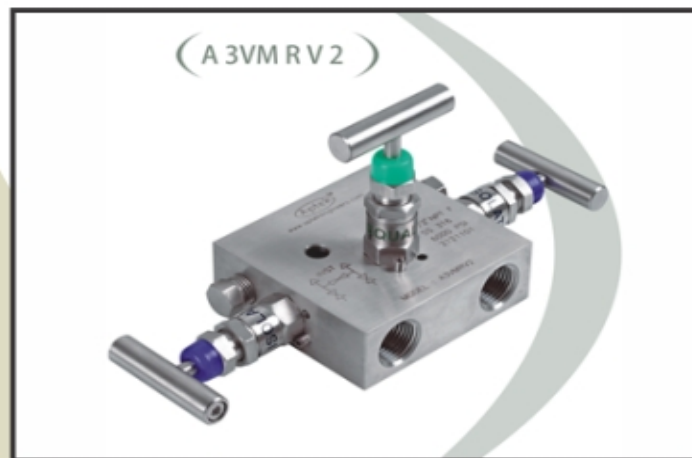
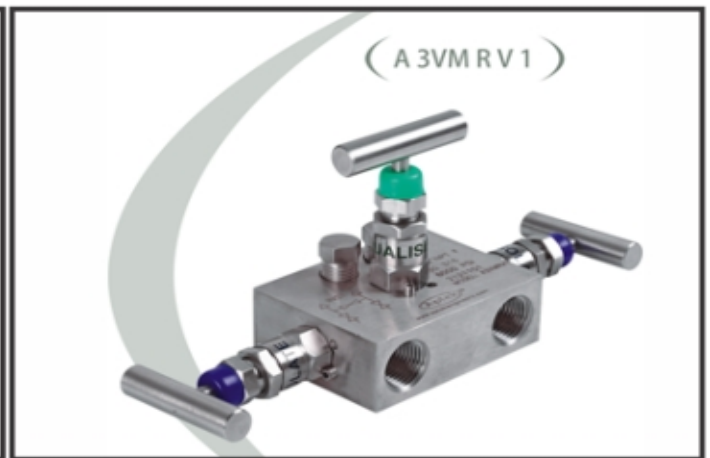
MOC in accordance with NACE MR0175 is available on request.

Monel, Inconel, Hastelloy, Duplex steel are also available on request.

Gland packing : PTFE / Graphite

Standard process connection : 1/2" NPT F

standard Instrument connection : 1/2" NPT F



### 3 Valve Manifold - Direct Mounting

These manifold can be directly mounted on the transmitter having 54 mm or 32 mm center to center connections. The inlet is either 1/2" NPT F or flanged. Two isolation valves & one equalizer valve is provided along with 1/4" NPT F drain as an option. These valves are mainly used with Dp transmitters. Different options are available as shown.

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications)

Material : 316 SS / 316L SS / 304 SS / Carbon steel

MOC in accordance with NACE MR0175 is available on request.

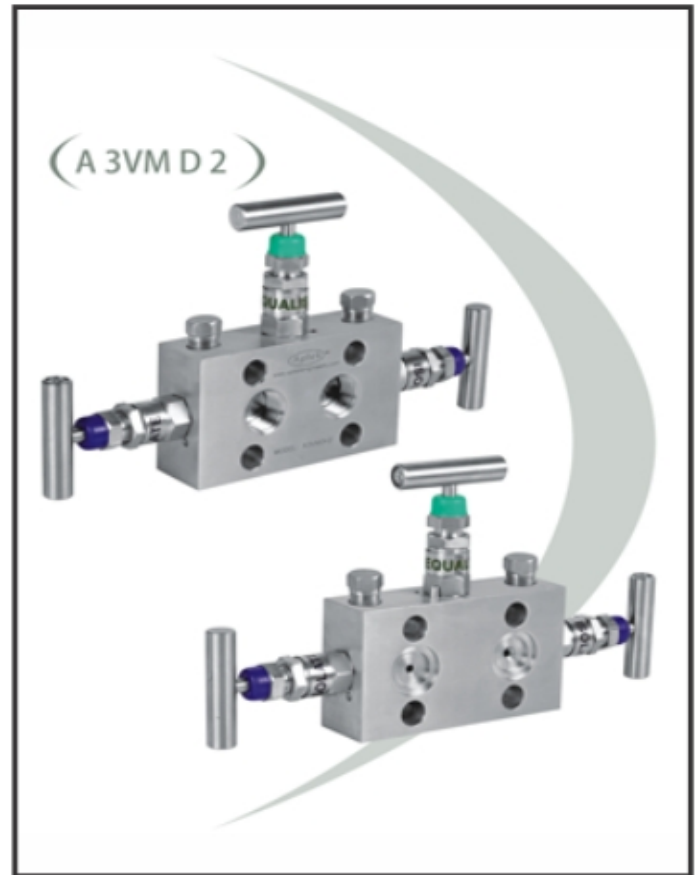
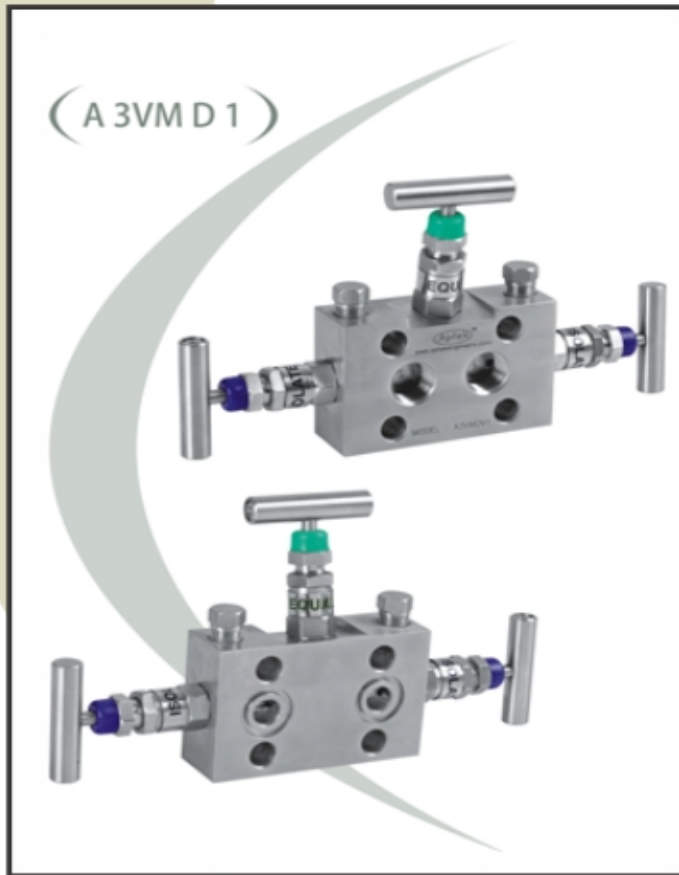
Monel, Inconel, Hastelloy, Duplex steel are also available on request.

Gland packing : PTFE / Graphite

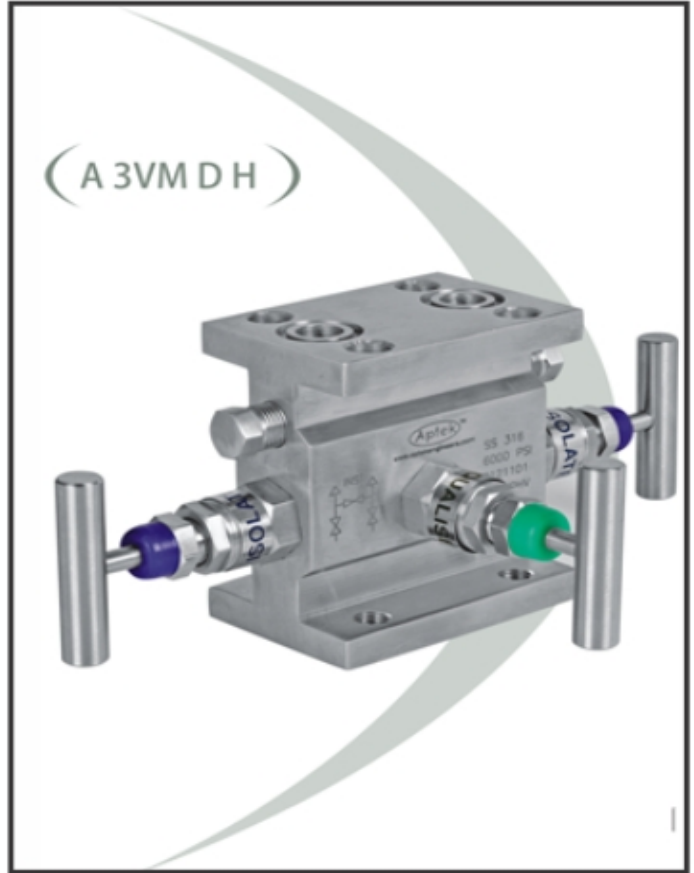
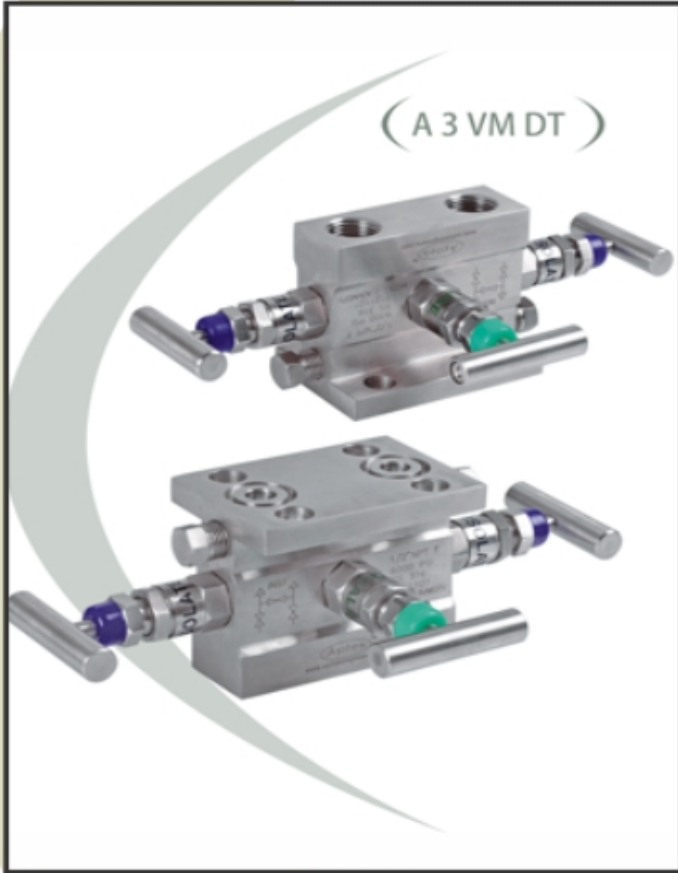
Standard process connection : 1/2" NPT F

standard Instrument connection : Flanged

Drain : 1/4" NPT F (supplied with 1/4" NPT blind plug)







### Special Manifolds for DP Gauges

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications)

Material : 316 SS / 316L SS / 304 SS / Carbon steel

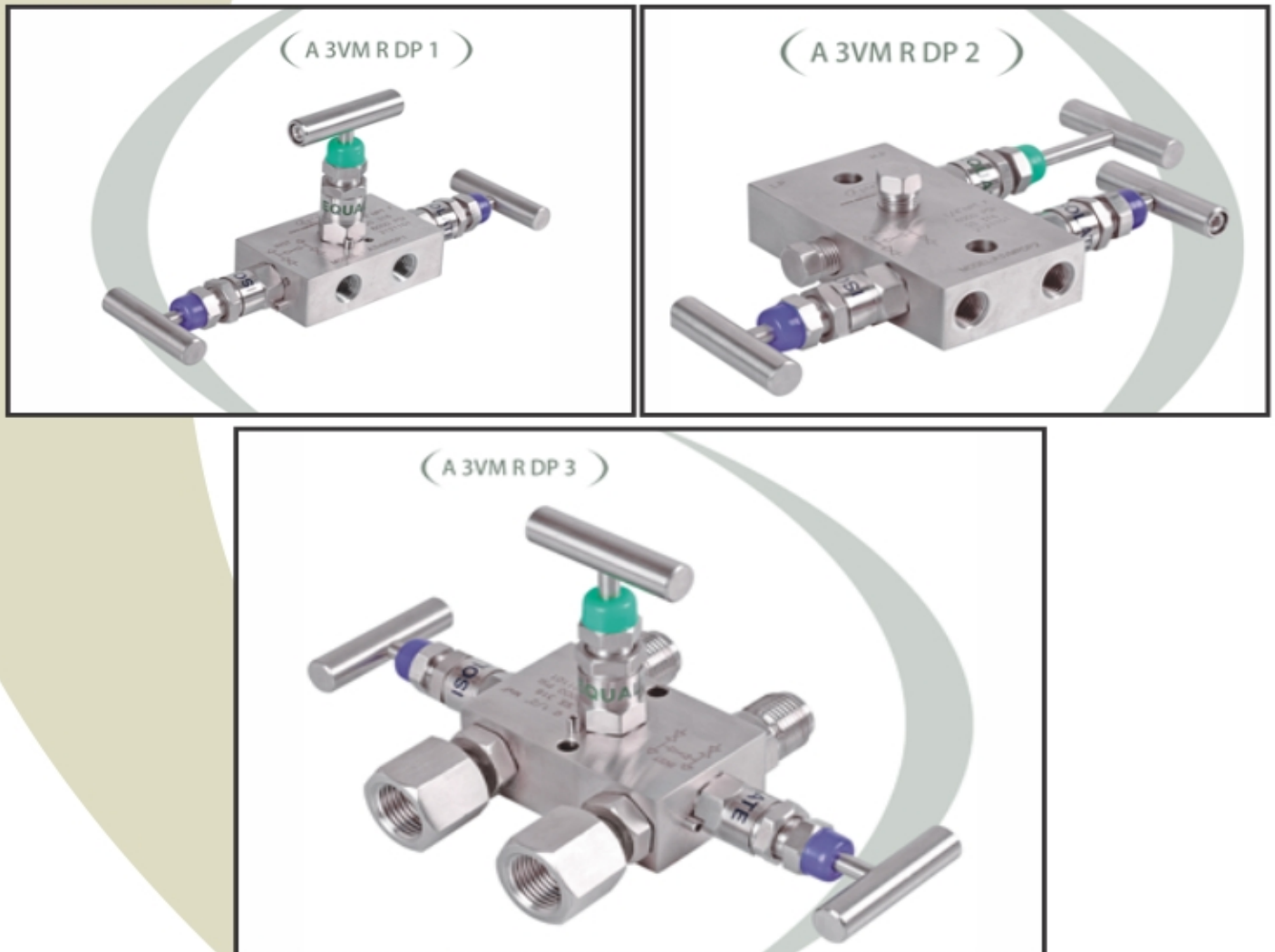
MOC in accordance with NACE MR0175 is available on request.

Monel, Inconel, Hastelloy, Duplex steel are also available on request.

Gland packing : PTFE / Graphite

Standard process connection : 1/4" NPT F

Standard Instrument connection : 1/4" NPT F



### 5 Valve Manifold - Remote Mounting

These manifolds are designed for remote mounting on instruments using threaded instrument & process connections. These valves are having two isolation, one equalizer & two drain/calibration valves. The standard process & instrument connections are 1/2" NPT F & the drain connections are 1/4" NPT F. The blanking plugs are provided. The instruments connections are positioned at 54 mm center distance but can also be used for other center distances with the help of screwed fittings. Different models are available as shown below.

Standard Specifications :-

Maximum working pressure : 413 bar / 6000 PSI at 1000 C

(see pressure temperature chart on Page No. 4 for higher temperature applications)

Material : 316 SS / 316L SS / 304 SS / Carbon steel

MOC in accordance with NACE MR0175 is available on request.

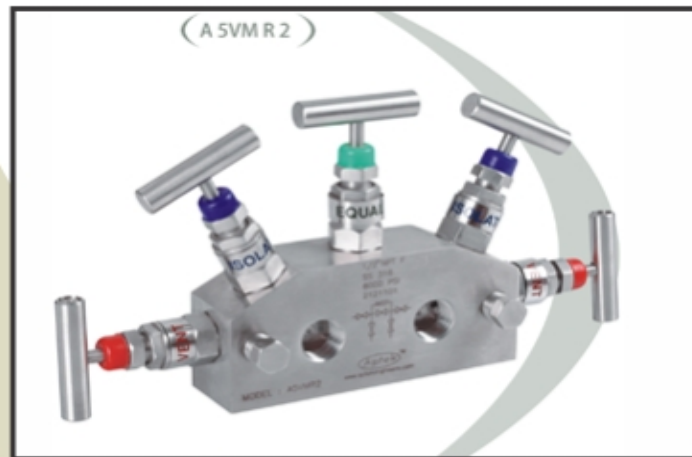
Monel, Inconel, Hastelloy, Duplex steel are also available on request.

Gland packing : PTFE / Graphite

Standard process connection : 1/2" NPT F

Standard Instrument connection : 1/2" NPT F

Drain : 1/4" NPT F



Contact us



## **Aptek Instrumentation Pvt. Ltd.**

Plot No. 175/1/1, Phase - I, Opp. MBH Pumps, Nr. Ingersoll Rand, G.I.D.C.,  
Naroda, Ahmedabad - 382 330, Gujarat, [INDIA].

Phone:- +91-79-2284 3333, 22840081 / Telefax:- +91-79-40080282

Unit:- 2 C-1/B-45, Phase - I, Opp. Cello Godown,  
Nr. GEB, GIDC Vapi Dist. Valsad

Telefax :- 0260-2410952

Email:- [marketing@aptekengineers.com](mailto:marketing@aptekengineers.com) [aptekengineers@gmail.com](mailto:aptekengineers@gmail.com)  
[www.aptekengineers.com](http://www.aptekengineers.com)