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ANDERSON GREENWOOD
INSTRUMENTATION PRODUCTS

Anderson Greenwood offer the complete range of instrument valve product.

Anderson Greenwood supply the ideal valve for each application, be it simple isolation or manifolds for pressure, flow and level measurement instruments.

In addition to its comprehensive range of standard valves and manifolds, Anderson Greenwood has also developed a number of products for primary isolation applications.

With the Keyblok double block and bleed integral manifolds, Anderson Greenwood has overcome the weight and space restrictions associated with many of these traditional installations compared with traditional piping valves.

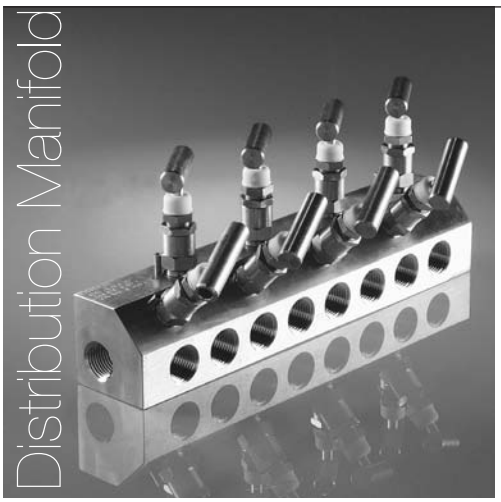
Continuing along the line of meeting space savings, the Monoflange manifold is designed to mount directly to process flanges, providing maximum safety and minimum vibration. The Monoflange also combines compactness with easy access in the field since its versatile design allows for horizontal or vertical mounting.

Anderson Greenwood hand valve and gauge valves include multi-port and block and bleed styles suitable for gauge isolation, calibration and venting with a choice of either globe pattern or through-bore designs.
A wide choice of end connections and comprehensive range of standard gauge accessories allows complete flexibility for individual installations.

Specifications

Materials: CS, SS, Duplex and other exotic materials
Seats: Metal (globe and plug)
Soft (globe and plug)
Standard Orifice Size: 3 mm (1/8") to 16 mm (5/8").
Pressure (max): 690 barg (10,000 psig)
Temperature (max): 538°C (1,000°F)

Anderson Greenwood



Distribution Manifolds designed to distribute air for panel and cabinet instrumentation and can easily be wall or pipestand mounted.

Distribution manifolds are available with either with needle valve with hard seats or ball valve designs.

Needle valves are suitable for pressures up to 414 barg (6000 psig) while ball valves are suitable for pressures up to 138 barg (2000 psig).

The manifold has 15 (1/2") to 25 (1") NPT end connections as standard and comes with the option of 8 (1/4"), 10 (3/8") or 15 (1/2") NPT outlets.

Distribution manifolds are available with any number of bonnet/outlet connections up to 12 way.

Anderson Greenwood has the largest and most innovative range of static and differential pressure manifolds available for every kind of instrument.

These include conventional two, three and five valve manifolds as well as purpose designed manifolds for special applications.

Available in direct or remote mount, these manifolds are suitable for all instruments from a pressure gauge to pressure transmitters.

Integral manifolds are those uniquely connected to the transmitter of a specific manufacturers' model and cannot be used on a different transmitter brand. Manifolds are manufactured to specifically suite Rosemount(TM) Transmitter Models 3051, 2024 and 3095.

The SaddleMount™ system is designed for close coupling DP transmitters to orifice flange unions. The system can be used on DP measurement for gas, liquids and steam. The SaddleMount™ is totally self draining and can be mounted horizontally or vertically. The system features a straight through 10 mm [3/8"] bore directly from the orifice taps to the transmitter sensing module which reduces pulsation induced error. Pulsation error is one of the leading causes of inaccurate transmitter measurement. The system allows mounting of traditional DP or co-planer style (Rosemount 3051) DP transmitters with a choice of 3 or 5 valve instrument manifolds for power, process or natural gas measurement. The system does not require impulse lines, thereby considerably reducing installation and maintenance costs.

The Modular Mounting System for instrument impulse line installations has been developed in conjunction with Shell International (SIPM) and has particular applications in the petrochemical and refining industries. Based on a standard mounting plate, it allows components to be either pre-assembled in the workshop or assembled at a later stage, providing maximum flexibility without compromising quality and safety.
The Modular Mounting System has a full range of manifolds for differential pressure, pressure and gauge applications and accessories including GRP enclosures, heating blocks, seal pots, purge blocks and test connection boxes.

KEYBLOK LARGE BORE

The Keyblok Large Bore is an innovative range of two piece Primary Isolation double block and bleed valves. With sizes up to 80 mm (3") and pressures up to Class 1500 the design offers double the safety of a single isolate valve but does this within the same face to face dimension. The large bore design is ideal for dirty service where blockage is of concern and for vessel measurement/diaphragm seal/flow type applications.

KEYBLOK

The range of primary isolation double block and bleed valves meets both instrument and piping engineers' specifications, offering significant savings on space, weight, installation and cost. Suitable for line isolation, sample connectors and chemical injection service, Keyblok manifolds use ball valves, outside screw and yoke (OS&Y) bonnets and threaded bonnet instrument valves, and are available with a full range of threaded and flanged connections up to API 10K. Bore size range is 10 mm to 19 mm.

MONOFLANGE

The Monoflange manifolds can be mounted directly onto vertical or horizontal flanged connections, allowing a gauge to be kept in an upright position. Suitable for both primary isolation (double block and bleed) and instrument (block and bleed, block) duties, the Monoflange provides isolation, venting and instrument mounting in a single compact unit. The designs incorporate safety features that limit vibration and reduce the overall height of a gauge installation. Bore size is 5 mm.

ROOT VALVE

Root Valves are an integrally forged one-piece double block and bleed assembly for primary isolation of pressure take-offs where the valve is either screwed or welded directly into the vessel or process pipe without the need for a flanged connection. Instruments may be directly mounted to the valve outlet or alternatively remotely mounted with gauge lines/impulse pipe work. Bore size range is 5 mm to 10 mm.

PRIMARY ISOLATION VALVE Applications

All Anderson Greenwood Instrumentation Products Primary Isolation Valves are designed to comply with the following code requirements:

- ANSI/ASME B16.34 Material wall thickness
- ANSI/ASME B16.5 Flange dimensions
- ANSI/ASME 8 Design procedures and materials
- ANSI/ASME B1.20.1 National pipe threads
- API 607/BS6755 Fire tested

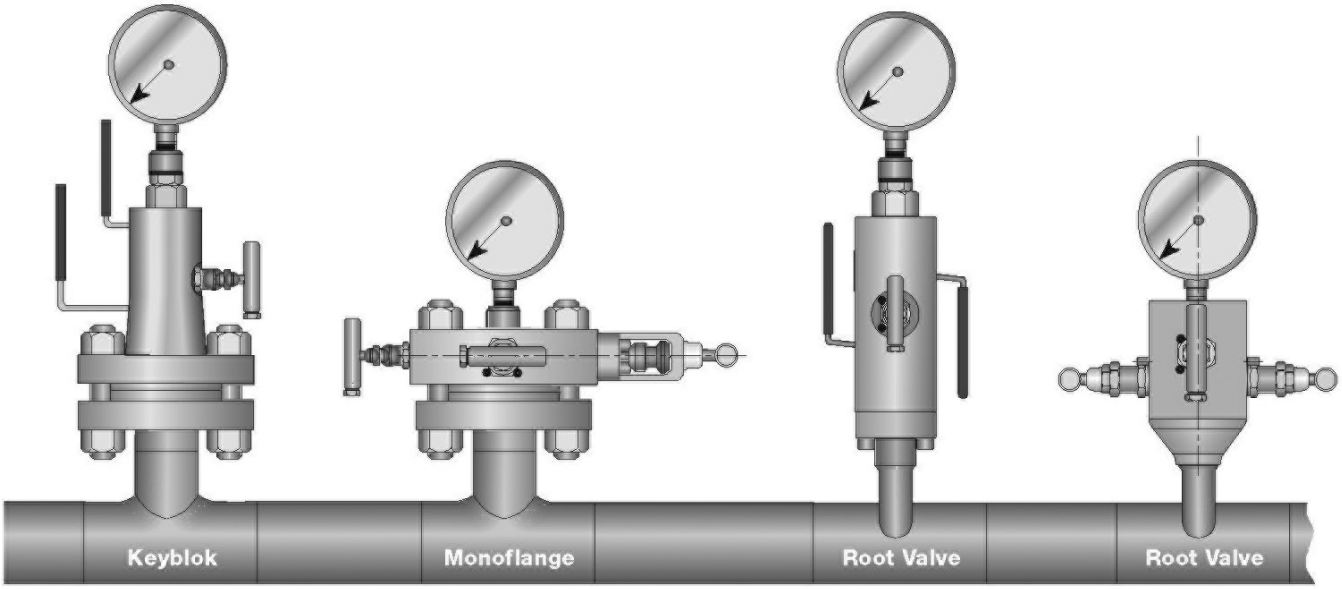
Applications

- Double block and bleed instrument isolation
- Gauge isolation
- Instrument drain
- Chemical injection connection
- Sample connections
- Chemical seat instrument isolation
- Piping/instrument interface
- Direct mounting of instruments
- Remote mounting of instruments

Advantages

Advantages gained by installing Anderson Greenwood Instrumentation Products Keyblok and Monoflange Primary Isolation Valves, based on a typical ANSI 25 mm (1"), Class 1500 one-piece integrally forged valve:

- Reduced weight – 7.0kg (15.4lb)
- Reduced height – 250.0 mm (10 inches)
- Reduced leakage points
- Reduced effect of system vibration
- Supporting brackets are not required
- Reduced bending moment acting on the vessel branch fitting weld
- Reduced installation cost
- Reduced gaskets and bolting



KEYBLOK

- Ball and Globe Style Needle Valves
- Flanged and Threaded Connections
- Integrally Forged Body

MONOFLANGE

- Globe Style Needle Valves
- Flanged and Threaded Connections
- Slimline Integrally Forged Body

ROOT VALVE

- Ball or Globe Style Needle Valves
- Welded or Threaded Connections
- Integrally Forged Body

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PIPELINE PRODUCTS

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