

Stewarts

Range of flanged manifolds have been developed to reduce installation time and set up costs, reduce the space and number of components required for a multi valve configuration, and to ultimately lower the number of potential leak paths in the system.

The manifolds with integral flange are designed as such to be installed directly onto your process equipment or into your piping system where ASME/ANSI integral flanges are present or are included as standard fittings. The manifolds are suitable for and can be configured depending on your system requirements, uses may include; direct attachment of instrumentation, reduction and sampling junctions or use as branching components.

Flanged manifolds can be configured with various valve types, and number of valves to suit the application. Configurations include Single and Double Block Bleed, Ball/Needle/Ball, Needle/Rising Plug, Vent valves or Bleed plugs and also Auxiliary equipment pipe connections. A block/bleed configuration may be used for example where it is necessary to stop fluid/gas flow downstream from the manifold, this part of the system is then bled in order to carry out maintenance, repair or replacement. The Stewarts flanged manifold can also be in the form of a dual flange (cartridge), with a standard length as per ASME B16.5, this is equal to the face to face dimension of conventional single ball valves; this design lends itself to ease of installation without the need to rework piping of older systems when replacing and/or retrofitting.

Flanged manifolds, used in installations in accordance with ASME/ANSI standards, feature all metal sealing in the valve seat where needle valves are present with metal to metal seal at the bonnet to body interface. Various materials are available for the seats/seals in both the ball and rising plug valves, to suit the fluid/gas temperature and composition.

We manufacture in a full range of materials, flange types and ratings as well as offering a choice of outlet type and size. Further options are available when purchasing with Stewarts pressure gauges.

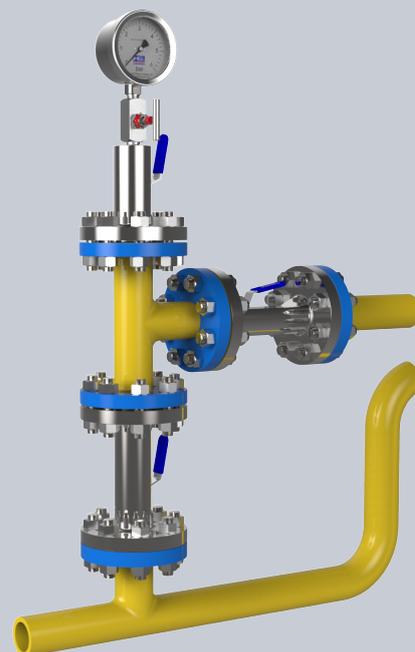
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Flanged Manifolds

Gauge fitted with Stewarts **SWIVEMAS®** connection



Traditional Hookup



Flanged Manifolds

CONSTRUCTION

Machined from a single piece of 'grain flow controlled' forging, the resulting final assembled part incorporates the valve heads and outlet connections.

Trace code etched on body with material certificates available for all wetted parts on request.

Configurations

BVP – Double Block and Bleed Valve, flange/thread – 9.6mm bore primary/secondary Ball Valves, Needle (vent) valve with plugged port.

BVQ – Double Block and Bleed Valve, flange/flange - 9.6mm bore primary/secondary Ball Valves, Needle (vent) valve with plugged port.

Inlet

The flanged process connection can be made to suit any International size or rating including, but not restricted to:

* ASME B16.5 & EN1092-1 Flanges from 1/2" to 2" in ratings from 150 to 2500 lbs in RF, and RTJ flange face styles

* API 6A Flanges up to 2-1/16", 3000, 5000 & 10,000 lbs

Vent

1/4" NPT female vent as standard, others available upon request.

Outlet

Flanged connection as inlet or screwed female connection (1/2" NPT standard)

Integral SWIVEMAS® connections to Stewarts Pressure Gauge (On BVP Model)

Pressure Rating

Rated as per Flange Standard.

NACE (Optional)

All body & wetted parts materials (grades used) comply with the requirements of NACE MR 0175 / ISO15156.

It is the responsibility of the designer of the process system to ensure the correct material is selected.

NORSOK (Optional)

All NORSOK M-630 materials sourced from NORSOK M-650 approved mills on request.

Fire safe (Optional)

On request, valves can be fire safe constructed compliant with

- BS 6755 Pt 2. / ISO 10497 (Max 6000 psi)
- API 6FA
- API 607

Other standards are available.

Note:- SWIVEMAS® connection conforms to ISO14000 / 14001

APPLICATIONS

- Pressure instrument take off points.
- Root isolation.
- Sampling systems, where a pipeline probe is integral with our valve.
- Chemical Injection systems, where a check valve is part of our valve assembly.
- Drains for tanks and pipes, where space is restricted.
- Wellhead instrument monitoring.
- Hydraulic power unit systems.
- Reduced vibrational stress.
- Cost savings.



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DATA SHEET REF: Flanged at a glance-REV01-14

FLANGED MANIFOLDS AT A GLANCE



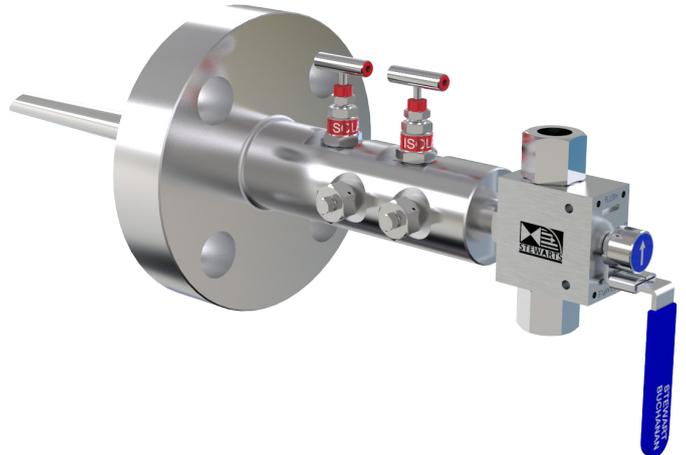
Configuration Options

Other designs on request.

9.5mm through bore with sampling quill (end piece). Primary/Secondary ball valves with OSY (outside screw and yoke) needle vent valve. Rated per flange rating to max 6000psi.



4.8mm bore with sampling quill. Primary isolate needle, secondary isolate rising plug, with 1/2" NPT captive bleed plugs and auxiliary ports; assembled and tested with 3 way switching ball valve for flushing and sampling. Rated per flange rating to max 10000psi.



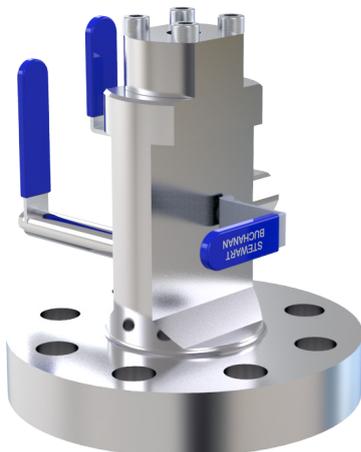
9.5mm through bore with API Flange sampling rising plug valve. Primary/Secondary ball valves and 1/2" NPT plugged needle vent valve, additional 1/2" NPT auxiliary port; assembled and tested with pressure transmitter (supplied by others) Rated per flange rating to max 10000psi..



9.5mm through bore single block and bleed. Primary ball valve with 1/4" NPT plugged needle vent valve. Rated per flange rating to max 6000psi.



9.5mm through bore double block and bleed fire safe manifold. Primary/Secondary and vent ball valves. Rated per flange rating to max 6000psi.



9.6mm bore double block and bleed manifold. Primary isolate needle, secondary isolate rising plug valve, with 1/2" NPT captive bleed plugs and auxiliary ports. Rated per flange rating to max 6000psi.



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