ALCO HI-TEK MONOFLANGE VALVES

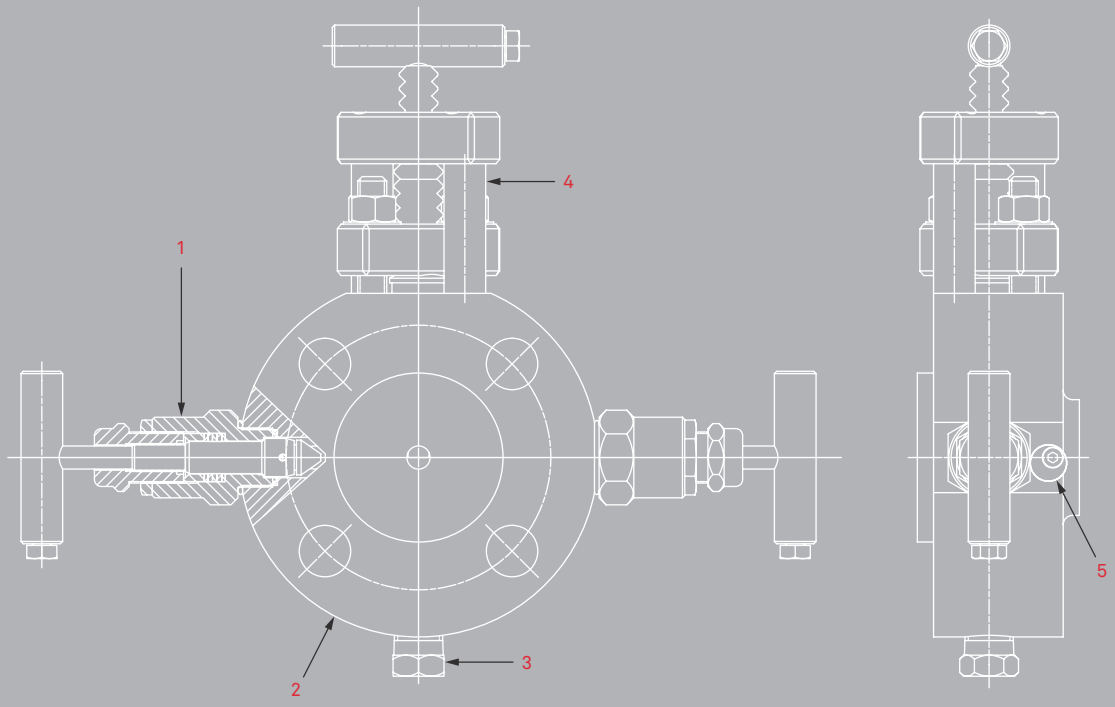
Ø10mm Bore SMF Monoflange Flange x Screw

Technical Spec

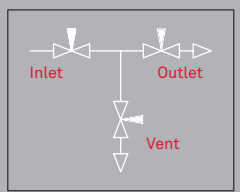
Double block and bleed monoflange valve with flanged inlet, and threaded outlet and vent connections utilising metal to metal seat and bonnet to body connection for superior, bubble tight sealing capabilities at both extreme pressures and temperatures.

The 10SMF type valve offers a Needle, Needle, Needle configuration as well as an OS&Y Needle, Needle, Needle configuration to suit all needs. The unique anti-vibration cam locking device at body bonnet connection is for extra safety. This series offers working pressures of up to ASME class 2500 with a maximum working temperature of 472°C.

Valve Construction



1. Screwed Needle Valve
2. Single Flanged Monoflange Body
3. Blank Plug
4. OS&Y Needle Valve
5. Locking Cam Device



Flow Diagram

Options

Flange/Inlet †	Outlet †	Vented Port Thread †	Vent Port †	Needle Valve
Raised Face	NPT	NPT	Plugged	Standard Needle
Flat Face	BSPP	BSPP	Unplugged	Anti-Tamper Needle
Ring Type Joint	BSPT	BSPT	Safety Vent Plug	OS&Y Needle
				Lockable OS&Y Needle

† Other options can be supplied upon request.

Design Features

Temp. Range
-46°C > 472°C †

Pressure Rating
ASME Class 150 - 2500

Flange Sizes
ASME B16.5 1/2" - 2" †

Compliance
NACE MR - 01 - 75

Material Traceability
Major Components

Flow Direction
Uni-directional

Servicing Kits
Available

† Actual maximum working temperature is dependent on valve service conditions; please contact for more information.

- Bubble tight metal to metal seat for positive shut off
- Two piece non-rotating hardened tip for first time seal and long service life
- Pressure responsive multi-ring / piston packing for compression and pressure dynamic sealing
- PEEK body bonnet seal for high pressure and high temperature
- Actuating threads are above packing to prevent contamination by the process medium
- Unique bonnet locking cam. No accidental removal of head unit, or loosening due to vibration
- Positive no slack stem action
- Seperate shut off for vent to prevent unwanted loss of process medium
- Any combination of Vent/Outlet sizes and types available on request
- Raised Face, Flat Face and Ring Type Joint connection options available
- Venting Plug available for Vent Port

Pressure Testing

All our Valves are tested thoroughly. We offer a wide range of testing options due to our variety of in-house testing equipment. Standard Hydro-body, Hydro-seat and Gas seat testing is carried out to API 598 and API 6A, with permissible leakage to ISO 5208. However other standards can be adhered to should it be required, including but not limited to PR2, ISO 15848, MESC SPE 77/300 and MESC SPE 77/312. Please speak to our Sales team with regards to your testing requirements and we will be happy to advise.