ALCO HI-TEK TOP HAT VALVES

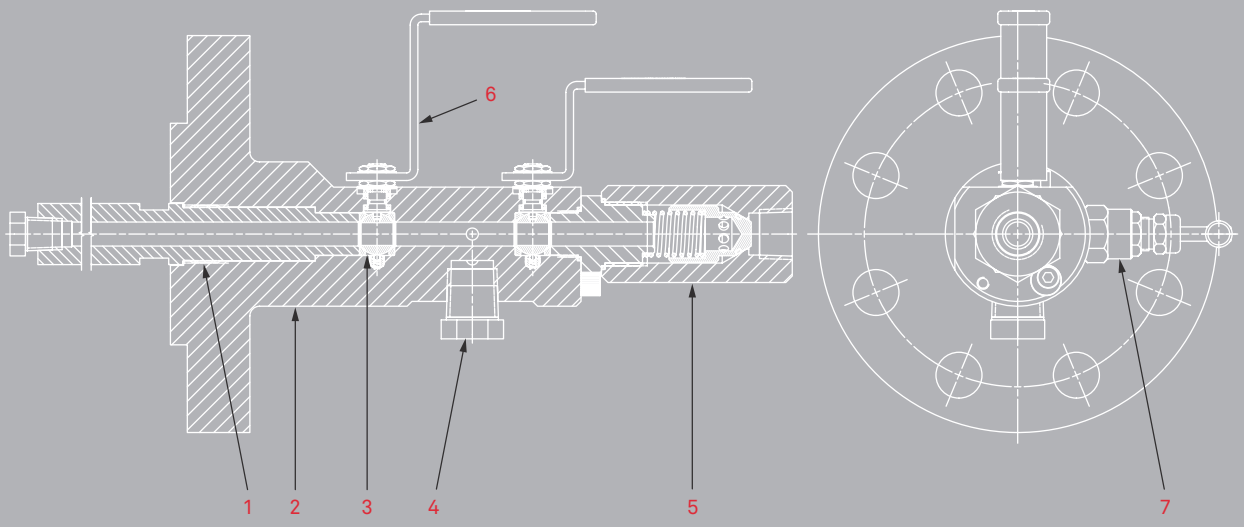
V Series Injection Flange x Screw

Technical Spec

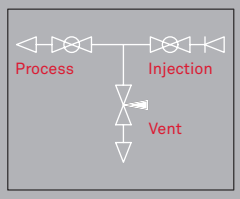
Double/Single block and bleed single flanged valve manifold utilising soft seated ball valves and a metal seated needle valve with bonnet to body connection for superior, bubble tight sealing capabilities at both extreme pressures and temperatures.

The SVI type valve offers a Ball, Needle, Ball configuration (Other configurations are available also). An injection quill is also attached to the flanged end of the valve making it the outlet, a Check Valve is generally included at the threaded end/inlet. This series offers working pressures of up to ASME class 2500 with a maximum working temperature of 200°C.

Valve Construction



1. Injection Quill (Plugged)
2. Valve Body
3. Isolation Ball Valve
4. Blank Plug
5. Check Valve
6. Valve Handle
7. Screwed Needle Valve



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 > 200°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.

— 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

— Seperate shut off for vent to prevent unwanted loss of process medium

— Venting Plug available for Vent Port

— Positive no slack stem action

— OS&Y valves available alongside standard Needle valves to cater for all customer needs

— Pressure rated up to ASME B16.5 Class 2500

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.

Non-Destructive Testing/Examination Options

– DPI
– MPI
– Ultrasonic
– Hardness Testing
– Radiography