ALCO HI-TEK THREE PIECE BOLTED VALVES

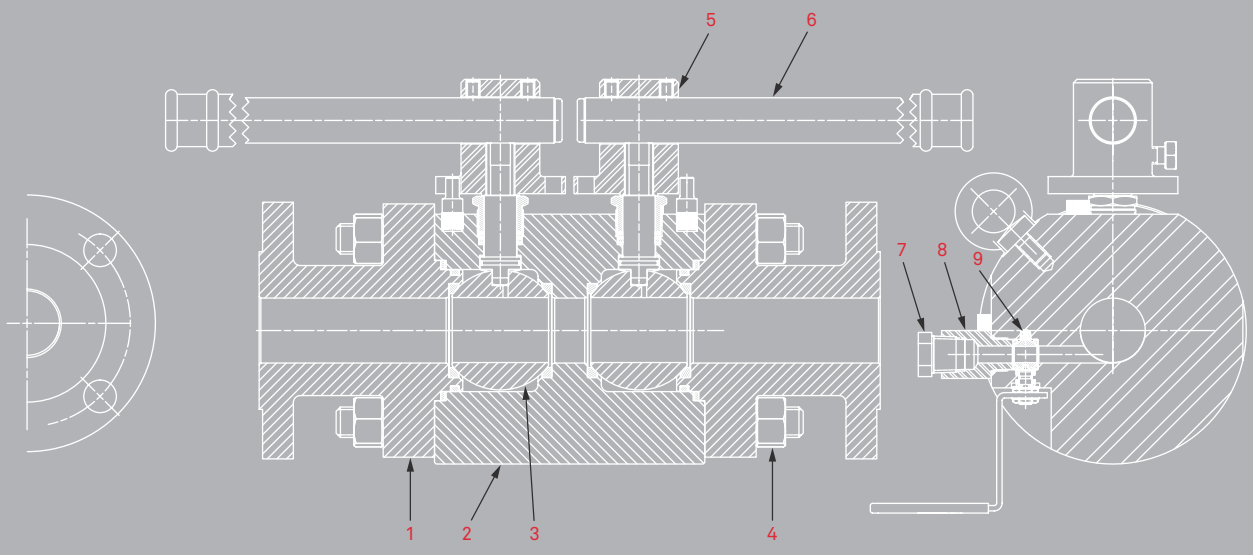
Y Series Flange x Flange 3 Piece

Technical Spec

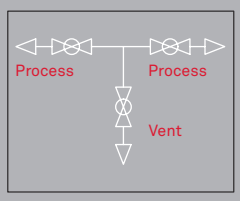
Double block and bleed 3 piece flange by flange valve manifold utilising a soft seat design, with flange to body connection for superior, bubble tight sealing capabilities at both high pressures and temperatures.

The FVY type valve offers a Ball, Ball, Ball configuration. Interchangeable flange options make this valve highly customisable for applications that include changes in piping configurations. This series offers working pressures of up to ASME B16.5 class 2500 with a maximum working temperature of up to 200ºC.

Valve Construction



1. Bolt on Flange
2. Valve Body
3. Isolation Ball Valve
4. Fasteners
5. Handle Boss
6. Handle Tube
7. Blank Plug
8. Vent Connector
9. Venting T-Port Ball Valve



Flow Diagram

Options

Flange/Inlet †	Outlet †	Vented Port Thread †	Vent Port †	Needle Valve
Raised Face	Raised Face	NPT	Plugged	Standard Needle
Flat Face	Flat Face	BSPP	Unplugged	Anti Tamper Needle
Ring Type Joint	Ring Type Joint	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" - 3" †

Compliance
NACE MR - 01 - 75

Flow Direction
Bi-directional

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

— Standard configuration body with interchangeable process connections

— Option of flanged, threaded and butt-welded connections others available

— Bore sizes from 10mm up to 250mm

— Pressure rated up to ASME B16.5 class 2500 and API 6A 10,000 psi

— Double block and bleed configuration

— Lockable and Anti-tamper devices available

— Materials available include: ASTM A182 F316 Stainless Steel, ASTM A182 F51/55 Duplex & Super Duplex, and ASTM B564 UNS N06625 Inconel

— Fire safe design

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