

V100 series



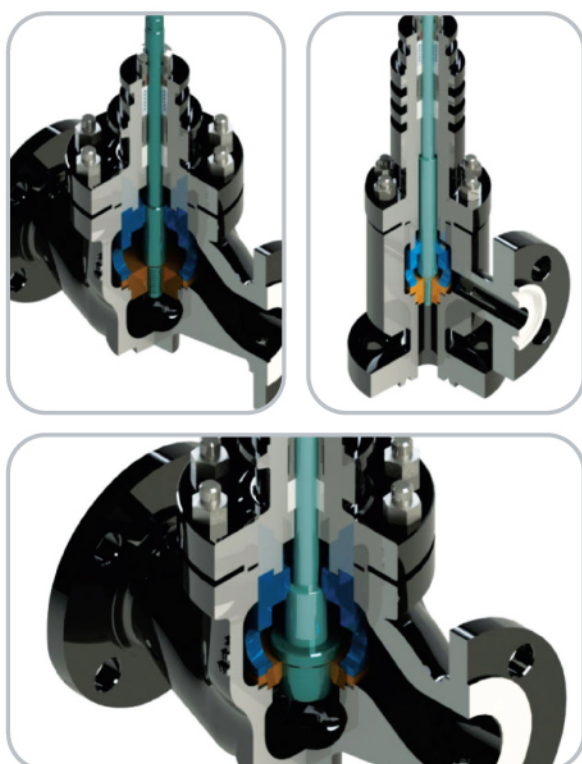
Unbalance Type Globe Control Valve

V100 Series

The V100 series single seated valve is developed for wide variety application on liquids, steam and gases. The construction of this range of valves is of a simple form but it has a design which in itself allows specialised applications. The V100 series valve provides reliable performance and cost effectiveness that will surely satisfy your control requirements.

Standard Body Specification

Basic Design Standard : ANSI B 16.34



Body Style	Straight way (2way Globe), Angle Type
Bonnet	Plain (Standard) Fin & Extension Bellows Seal Long Extension (Cryogenic Service)
Size Range	1/2" to 6" (DN15...DN150)
Pressure Rating	ANSI 150Lb 2500Lb JIS 10K to 180K PN20 to PN420
Operating Pressure Range	Up to 4000 psi (g) Up to 280 Kg/cm ² (g)
Operating Temperature Range	-58°F to +1,050°F -50°C to +565°C Option : -320°F to +1,562°F -192°C to +850°C
End Connection	Socket Weld - ANSI B16.11 Butt Weld - ANSI B 16.25 FF/RF/RTJ Flange - ANSI B16.5 Option JIS Flange, DIN Flange, NPT/PT Screw
Materials	Carbon Steel (WCB, WCC, A105) Chrome-moly Steel (WC6, WC9, C12A, F11, F22, F91) Stainless Steel (CF8, CF8M, CF3, CF3M, F304, F304L, F310, F316L) Duplex Stainless Steel, Monel, Al Bronz, Inconel 625 Hastelloy B/C, Other Alloy
Actuator	Pneumatic Diaphragm Pneumatic Cylinder Electric Motorized Electro-Hydraulic

V100 series

Performance

- High Flow Capacity.
- Tight Shutoff.
- Excellent flow control rangeability.

Design Flexibility

- Inherently characterized trim offered in equal % linear and quick opening.
- Multi trim sizes available
- Full range of body and trim material options.
- Full rationalized and interchangeable features.
- Full range of bonnet and packing designs to suit various temperatures and fluids.

Design Integrity

- Quick changed trim for Easy Maintenance.
- Large diameter stems for stable Operation.
- Heavy duty top guiding with no bottom guide to obstruct seat bore and potentially trap debris.

Standard Trim Specification

Unbalanced Plug Type Quick Changed Trim

Size Range	1/8" to 6" (3mm... 150mm)
Trim Style	P-Port (Parabolic Contoured Plug) Micro Flow Split Plug Multi-Step (Cascade) Cage Window Low-Noise Drilled Hole Cage (1/2/3-Stage) Anti-Cavitation Channel Cage (1/2/3-Stage) Labyrinth Disk Stack Hybrid Trim (Dick Stac + Drill Hole Cage)
Plug Guide Method	Top Guide Cage Guide
Flow Direction	Gas, Steam : Flow to Open Liquid : Flow to Close
Cv Range	0.002 to 400
Flow Characteristic	Liner, Equal %, Modified Equal %, Quick Open
Seat Leakage	FCI-70.2 Standard : ANSI Class IV Option : ANSI Class V ANSI Class VI (Soft Seat) MSS-SP61 (On-OFF)
Materials	316 SS, 316 SS + Stellite #6 Hardend 410 SS/440C SS 17-4PH, F22 (Nitride treatment), F51 Inconel 718, XM19 Solid Tungsten Carbided Etc..

