

V200 series



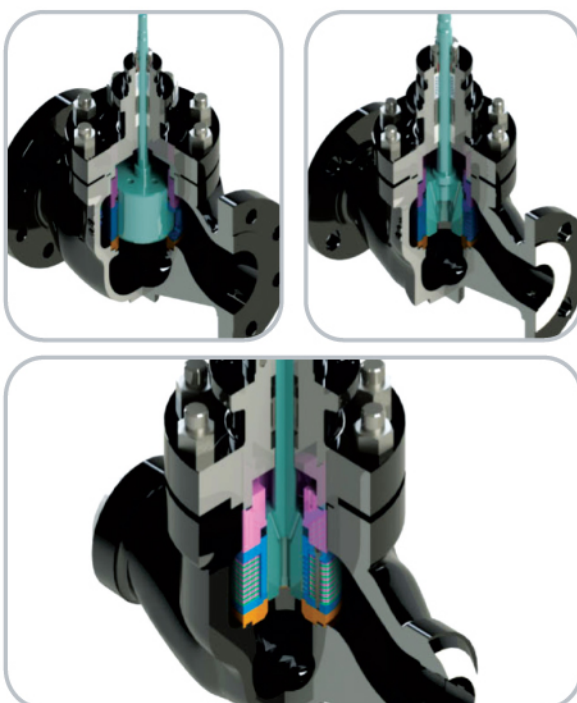
Balance Type Globe Control Valve

V200 Series

The V200 series cage-guided valve is specially designed using the most recent refinements in control valve technology. It is used to control a wide variety of relatively clean liquids and gases at high-pressure differentials. The design of the V200 series valve have a quick change design so it guarantees convenient repair and easy replacement of trim.

Standard Body Specification

Basic Design Standard : ANSI B 16.34



Body Style	Stright way (2way Globe)
Bonnet	Plain (Standard), Fin & Extension, Bellows Seal Long Extension (Cryogenic Service)
Size Range	1/2" to 24" (DN40...DN600)
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

V200 series

Performance

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

Design Flexibility

- A Simple cage change is all that is required to change between reduced and full-sized trims or between linear and equal % characteristics.
- Large variation of trim designs from single stage cage to multiple stage low noise/anti-cavitation trim designs.
- 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.
- Cage-guided construction reduces plug vibration and provides stable performance throughout travel.

Standard Trim Specification

Unbalanced Plug Type Quick Changed Trim

Size Range	1/2" to 24" (40mm... 6000mm)
Trim Style	P-Port (Parabolic Contoured Plug) 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	Cage Guide
Flow Direction	Gas, Steam : Flow to Open Liquid : Flow to Close
Cv Range	12 to 6800
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 Carbide Etc..
Balance Seal	O-Ring (EPDM, Viton) +5°C to +80°C U Seal (RTFE + 316SS) - 194°C to +230°C Graph-Lock Seal (Graphite + inconel) Up to +580°C

