

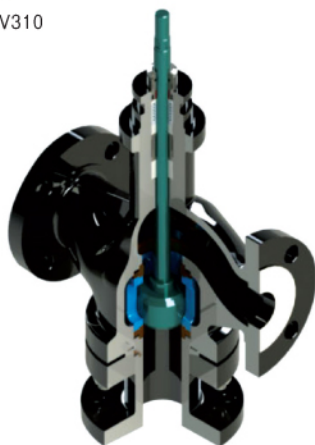
V300 series



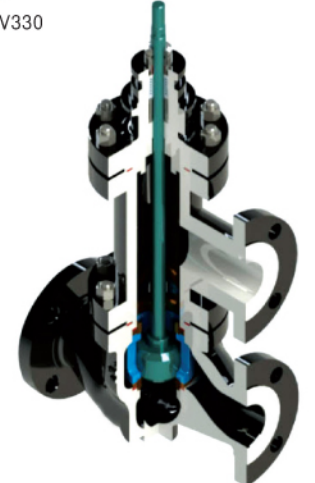
Three Way Globe Control Valves

V300 Series

V310



V330



The V300 series valve is a three-way design of valve for use on blending two separate flows, by having two inlets and a common outlet port, or diverting a flow into two proportional parts by having one common inlet and two outlet ports.

This range of valves has been designed in three forms designated V310, V320 and V330, the V310 and V330 conventional type is to provide an economic solution for all mixing and selected diverting services. V320 balanced trim is specially designed for high duty diverting service applications.

Standard Body Specification

Basic Design Standard : ANSI B 16.34

	V310 Series	V330 Series
Body Style	Bottom Flanged 3Way	Top Flanged 3Way
Bonnet	Plain (Built in)	Plain (Standard), Fin & Extension, Bellows Seal
Size Range	Mixing 1" to 12" (DN25-DN300) Diverting 1" to 4" (DN25-DN100)	
Pressure Rating	ANSI 150Lb TO 300Lb (JISN 10K to 20K)	
Oper. Press Range	Up to 300 psi (g) (20 Kg/cm ² (g))	
Ope. Temp. Range	-58°F to +1,050°F (-50°C to +565°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	
Materials	Carbon Steel (WCB, WCC), Chrome-moly Steel (WC6, WC9) Stainless Steel (CF8, CF8M, CF3, CF3M), Hastelloy B/C, Other Alloy	
Actuator	Pneumatic Diaphragm, Pneumatic Cylinder Electric Motorized, Electro-Hydraulic	
Trim Style	V-Port, Window Cage, Drilled Hole Cage	
Plug Guide Method	Gage Guide	
Cv Range	Up to 1800	
Flow Characteristic	Linear, Equal %, Modified Equal %, Quick Open	
Materials	Carbon Steel (WCB, WCC), Chrome-moly Steel (WC6, WC9) Stainless Steel (CF8, CF8M, CF3, CF3M), Hastelloy B/C, Other Alloy	
Actuator	Pneumatic Diaphragm, Pneumatic Cylinder Electric Motorized, Electro-Hydraulic	

V300 series

Features

- **High capacity**

Broad and streamlined fluid passage can pass larger amount of fluid than other three-way valves of the same size.

- **Stable Operation**

Port and cage guiding makes the operation of the plug stable regardless of plug travel.

- **Durability**

Rugged structure and smooth operation guarantee a long maintenance-free service life.

Flexibility

Various body and trim types provide design versatility for your needs.

- **V310 Series**

This configuration features an unbalanced plug for simple maintenance and economical installation. Designed with two side and one bottom pipeline connections.

- **V320 Series**

This configuration uses a balanced plug design, to minimize the actuator forces and provide stable control in large valve sizes with pneumatic actuators.

The quick change trim with the plug accessible from the bonnet allows for easy maintenance. Designed with two side and one bottom pipeline connections.

- **V330 Series**

This design combines an unbalanced plug with a Top-Entry Quick Change Trim. Designed with two side and one top side pipeline connections.



Standard Trim Specification

V320 Series Balanced Plug Type Diverting 3Way Valve



V320 Series	
Body Style	Bottom Flanged 3Way
Bonnet	Plain (Standard), Fin & Extension, Bellows Seal
Size Range	3" to 12" (DN80-DN300)
Pressure Rating	ANSI 150Lb TO 600Lb (JISN 10K to 40K)
Oper. Press Range	Up to 900 psi (g) (63 Kg/cm ² (g))
Ope. Temp. Range	-58°F to +1,050°F (-50°C to +565°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
Materials	Carbon Steel (WCB, WCC), Chrome-moly Steel (WC6, WC9) Stainless Steel (CF8, CF8M, CF3, CF3M), Hastelloy B/C, Other Alloy
Actuator	Pneumatic Diaphragm, Pneumatic Cylinder Electric Motorized, Electro-Hydraulic
Trim Style	Window Cage, Drilled Hole Cage
Plug Guide Method	Cage Guide
Cv Range	Up to 1500
Flow Characteristic	Linear, Equal %, Modified Equal %, Quick Open
Seat Leakage	FCI-70.2, Standard : ANSI Class IV Option : ANSI Class V, VI (Soft Seat), MSS-SP61
Materials	316 SS, 316 SS + Stellite #6, Hardend 410 SS/440C SS 17-4PH, F22 (Nitride treatment), F51