

4. Globe Valves

VG310R 15-50B

The Venta VG310R 15-50B is a range of compact precision bronze globe valves, suitable for a wide range of fluid control applications, including heating, cooling, air handling and domestic hot water systems. The VG310R 15-50B series works reliably under a wide variety of conditions, including fluids with high glycol concentrations and very high temperature bands.

The valve utilizes precision plugs for improved rangeability and fine fluid control on small opening degrees. Soft seating provides an ultra tight close off performance against energy seepage.



Specifications

Design	3-way plug valve, stem up closed
Pressure class	PN 16
Flow characteristic	Equal percentage modified
Stroke	11 mm
Rangeability (Kvs/Kv _{min.})	>100
ΔPm	400 kPa, water
Max. temperature of medium	138 °C
Min. temperature of medium	-7 °C

Max. glycol concentration	60%
Connections	Internal pipe thread Rp
Main Construction Materials	
Body	Bronze
Stem	Stainless steel 316
Plug	Brass CW602N
Sealing	PTFE for 15 and 20 mm units. EPDM for others.
Seat	Bronze
Standard packing box	Brass with PTFE and EPDM Chevrons
Slotted Stem Adapter	RoHS compliant Zinc-plated Steel

VG310R 15-50B						Max Close-off Pressure (kPa)			
						with MG350C		with MG600C (-SR) actuator	
Part Number ^a	Type Designation	DN	Connection	Kvs	Rangeability	Class IV-S1 ≤0.005%	IV1 ≤0.01%	Class IV-S1 ≤0.005%	Class IV ≤0.01%
VG310R-15B05	VG310R-15B 1.6T SU00	15	Rp 1/2	1.6	>100	1000	1500	1600	1600
VG310R-15B07	VG310R-15B 2.5T SU00			2.5					
VG310R-15B08	VG310R-15B 4T SU00			4.0					
VG310R-20B	VG310R-20B 6.3T SU00	20	Rp 3/4	6.3		800	930		1600
VG310R-25B	VG310R-25B 10E SU00	25	Rp 1	10		380	460	1100	1200
VG310R-32B	VG310R-32B 17E SU00	32	Rp 1½	17		250	290	600	700
VG310R-40B	VG310R-40B 24E SU00	40	Rp 1½	24		100	170	350	450
VG310R-50B	VG310R-50B 35E SU00	50	Rp 2	35		55	69	90	240

a. Valves designed for direct connection onto compact Forta actuators, type MG600C, MG600C-SR. For all other Forta actuators, stem extension, code AV-823 is required. It is not possible to drive this valve with the M700 or MV15B actuator.

Replacement Bonnet, Packing Gland: YBA-689-C