# **VB-7263 Precision Globe Valves**



#### Globe Valves

VB-7263 series single seat, stem up to close, two-way valves control water from 20 to 340°F (-7 to 171°C) or saturated saturated steam to 340°F (171°C) max. in heating or air conditioning systems. These valves have stainless steel trim with a PTFE disc. They are used for two-position or proportional control applications. Valve assemblies may be purchased from the factory or purchased separately, requiring an actuator and linkage.



- RoHS compliant product.
- High rangeability provides fine, accurate control for more efficient, responsive and comfortable regulation.
- Tight sealing with ultra low energy leakage on shutoff for improved system efficiency.



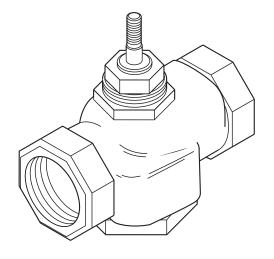
 Danger: Do not use for combustible gas applications. The VB-7263 series valves are not rated for combustible gas applications, and if used in these applications, gas leaks and explosions could result.



# [Venta] VB-7263 Precision Globe Valves

## **Specifications**

Action			Stem Up Closed				
Sizes			1/2" to 2"				
ANSI Pressure Class			250 (up to 400 psig below 150° F)				
ANSI Seat	t Leakage		Designed to ANSI V up to 35 psi (241 kPa), ANSI IV up to 87 psi				
			(600kPa) with long term seat leakage dependent on proper water condi-				
			tioning and maintenance of the water system <sup>d</sup>				
Control M	edia		20 to 340° F (-7 to 171° C) water (up to 60% glycol/water solution), low				
Temperature			pressurized, treated steam				
Allowable ΔP for Water <sup>b</sup>			87 psi (600 kPa) Max for normal life. <sup>a</sup>				
Maximum inlet pressure			100 psig (690 kPa)				
saturated	steam						
Max ΔP for sizing, saturated			80% of inlet pressure up to 15 psig and 42% of absolute (gage pressure				
steam <sup>b</sup>			plus 14.7) inlet pressure above 15 psig inlet				
	t close-off,	satu-	Inlet pressure (actuator must be rated to provide close-off pressure)				
rated steam <sup>b</sup>			RoHS Compliant PED CRN				
Listings/Certifications			RoHS Compliant, PED, CRN				
Body Patt	1		NPT Threaded				
Valve	Cv	Kvs <sup>b</sup>	Rangeability	Valve Body Part Number			
Size			Greater than				
1/2"	0.1	0.09	13 to 1	VB-7263-0-4-31			
	0.22	0.19	18 to 1	VB-7263-0-4-33			
	0.4	0.35	100 to 1	VB-7263-0-4-01			
	0.75	0.65	100 to 1	VB-7263-0-4-34			
	1	0.87	100 to 1	VB-7263-0-4-36			
	1.3	1.1	100 to 1	VB-7263-0-4-02			
	1.8	1.6	100 to 1	VB-7263-0-4-28			
	2.2	1.9	100 to 1	VB-7263-0-4-03			
	2.9	2.5	100 to 1	VB-7263-0-4-30			
	3.25	2.8	100 to 1	VB-7263-0-4-39			
	4.4	3.8	100 to 1	VB-7263-0-4-04			
3/4"	5.5	4.8	100 to 1	VB-7263-0-4-05			
	6.3	5.4	100 to 1	VB-7263-0-4-41			
	7.5	6.5	100 to 1	VB-7263-0-4-06			
1"	8.2	7.1	100 to 1	VB-7263-0-4-51			
	9	7.8	100 to 1	VB-7263-0-4-52			
	10	8.7	100 to 1	VB-7263-0-4-07			
	12	10	100 to 1	VB-7263-0-4-08			
1-1/4"	14	12	100 to 1	VB-7263-0-4-61			
	16	14	100 to 1	VB-7263-0-4-62			
	18	16	100 to 1	VB-7263-0-4-63			
	20	17	100 to 1	VB-7263-0-4-09			
1-1/2"	22	19	100 to 1	VB-7263-0-4-71			
	24	21	100 to 1	VB-7263-0-4-72			
	28	24	100 to 1	VB-7263-0-4-10			
2"	31	27	100 to 1	VB-7263-0-4-81			
	34	29	100 to 1	VB-7263-0-4-82			
40 35			100 to 1	VB-7263-0-4-11			
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Materials					
Body	Bronze				
Seat	316 Stainless Steel				
Stem	316 Stainless Steel				
Plug	316 Stainless Steel				
Packing	Spring-Loaded TFE/EPDM				
Disc	PTFE				

#### Notes:

- a. To minimize noise, ensure the flow rate in the piping is less than three meters (10ft)/second and the differential pressure is less than 35 psi (241 kpa). Operating within the cavitation zone or an operating differential pressure above 35 psi (241 kpa) may result in noise and internal valve damage.
- b. Maximum recommended differential pressure in open position. Do not exceed recommended differential pressure (pressure drop), as integrity of parts may be affected. Exceeding maximum recommended differential pressure voids product warranty.
- c. kv = m3/h ( $\Delta P = 100 kPa$ ) Cv = kvs x 1.156
- d. Requires properly conditioned water per EN-205 Water System Guideline, F-26080. Actuator close off force recommendations must be observed to meet ANSI Class V.

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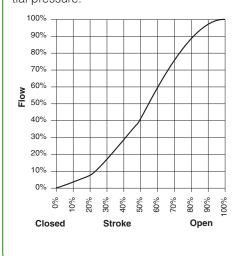
### Normal Position of Valve Actuator Assembly

Actuator Series c Actuat		Required Valve Linkage	Normal Position		
Mx51-710x-xxx	Electric	None	Normally Closed		
Mx51-720x-xxx		None	Normally Closed		
M900AR-xx-VB		None	Normally Closed		
M900AE-xx-VB		None	Normally Open		
M900AR-xx		AV-821	Normally Closed		
M900AE-xx		AV-821	Normally Open		
MA-521X		AV-7600ª	Normally Closed		
MK-2690	Pneumatic	AV-7400	Normally Closed		
MK-46x1		AV-401	Normally Closed		
MK-66x1		AV-430	Normally Closed		
MP-521x	Electric	AV-7600 <sup>a</sup>	Normally Closed		
MP-541x		AV-7600 & AV-601	Normally Closed		
MPR-561x			Normally Closed		
MP-551X			Normally Closed		
Mx-223x3, Mx-23xx3		None	None		
M400A-xx-VB, M800A-xx-VB, M1500A-xx-VB		None	None		
M400A-xx, M800A-xx, M1500A-xx		AV-821	None		
DuraDrive Damper Actuators b		AV-611 for 1/2" to 1-1/4" Valves	Normally Closed, Normally Open, or none		
DuraDrive Damper Actuators b		AV-602 for 1" to 2" Valves	Normally Closed, Normally Open, or none		

a. High ambient temperatures with high media temperatures in the valve may require the use of the AV-601 in addition to the AV-7600.

#### Flow Characteristics

All valves have modified linear flow characteristics. That is, the flow rate is nominally proportional to the valve plug lift, at a constant differential pressure.

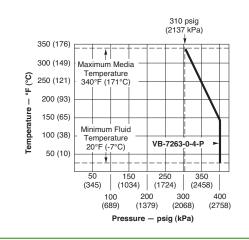


# Temperature Pressure Ratings

Consult the appropriate valve linkage general instruction sheet for the effect of valve body ambient temperatures on specific actuators. Ratings conform with published values and disclaimer.

VB-7263-0-x-P (Cast Bronze Body)

Standards: Pressure to ANSI B16.15 Class 250 with 400 psig up to 150°F decreasing to 310 psig at 340°F



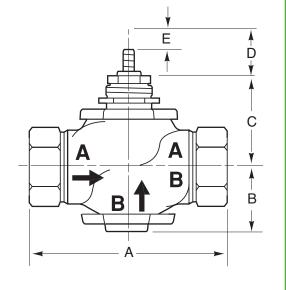
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 $b.\ Refer to the \ Left Superioral Instructions, F-27410 \ and \ the \ AV-602 \ General Instructions, F-26914 \ for compatible actuator information.$ 

c. See selection guides for application and close-off ratings.

### VB-7263-0-4-P,

Valve	Valve	Dimensions in Inches (mm)				
Port Code (P)	Size	А	В	С	D*	Е
01, 02, 03, 04, 28, 30, 31, 33, 34, 36, 39	1/2"	3-1/16 (78)	1-1/4 (32)	1-11/16 (43)	3/4 (19)	7-16 (11)
05, 06, 41	3/4"	3-5/8 (92)				
07, 08, 51, 52	1"	4-5/8 (118)	1-3/4 (45)	1-3/4 (45)		
09, 61, 62, 63	1-1/4"			2 (51)		
10, 71, 72	1-1/2"	5-3/8 (137)	1-13/16 (49)	2-1/16 (54)		
11, 81, 82	2"	6-1/8 (156)	2-1/16 (53)	2-3/16 (56)		



### **Additional Information**



For more information, download these documents from our website.

- CA-28 Control Valve Sizing, F-13755
- Valve Selection Chart Water, F-11080
- Valve Selection Chart Saturated steam, F-11366
- VB-7000 Installation Instructions, F-27651
- EN-205, Water System Guidelines Engineering Information, F-26080

 $Specifications \, are \, nominal \, and \, subject \, to \, change \, without \, notice.$ 

<sup>\*</sup> Stem down