

Valves

Plant Valves

VG7000

DN15...50, PN16

VG7000 Series Bronze Control Valves are designed primarily to regulate the flow of water and steam in response to the demand of a controller in Heating, Ventilating and Air Conditioning (HVAC) systems.

These valves are available in Push-Down-To-Close (PDTC), Push-Down-To-Open (PDTO), and three-way mixing configurations. Both electric and pneumatic actuators are available for factory or field mounting.



- DN15 through DN50 bronze valves, in two-way PDTC, PDTO and three-way mixing configurations
- Wide range of electric actuators available for all valves
- Every valve tested for tight shutoff
- Uses Standard Johnson Controls U-cup Packing
- Flexible features-and-options ordering template
- Standard Bonnet and stem design
- Leakage
 - 0.01% of Maximum Flow per EN60534-4, Class IV - Brass Trim:
 - Stainless Steel Trim: 0.05% of Maximum Flow
- Inherent Flow Characteristics Equal Percentage: 2-way Valves

Linear: 3-way Valves in compliance with EN 600534

Rangeability

25:1 at 0.25...1 kvs and 100:1 at 1.6...40 kvs

In accordance with EN 60534-2-4

- Maximum Recommended Operating Pressure Drop 240 kPa for DN15 and DN32 - 200 kPa for DN40 to DN50
- Fluid Temperature Operating Limits Valves with Brass Trim:

- With V-3801 and VA-731x Actuators: 2 °C to 120 °C water /

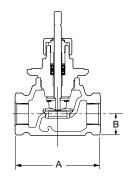
100 kPa Saturated Steam 2 °C to 140 °C water /

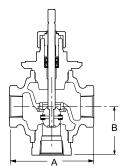
- With all other Actuators: 260 kPa Saturated Steam

2 to 170 °C / - Valves with Stainless Steel Trim:

690 kPa Saturated Steam







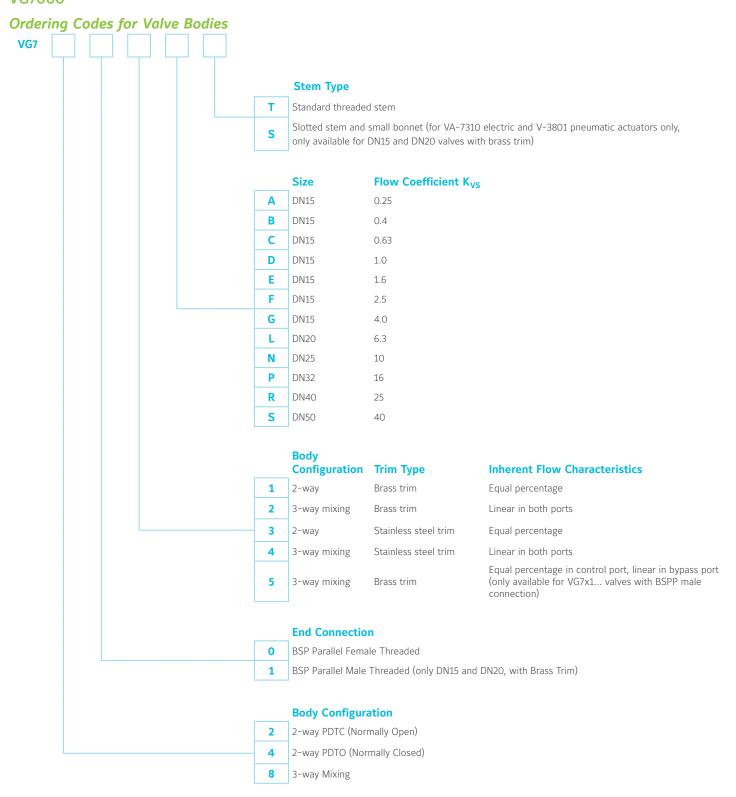
Dimensions in mm

		В		
Body Size	Α	2-way PDTC	2-way PDTO	3-way
DN15	76	21	39	46
DN20	81	24	41	54
DN25	104	29	44	65
DN32	119	34	51	70
DN40	130	55	70	85
DN50	150	53	72	95



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Maximum Close-off Pressures (in kPa), for Valves with Brass Trim and Electric Actuators

Size	VA-731x	VA-715x	VA-77xx	VA-720x	VA78xx
DN15	1600	1600			
DN15	700	1600			
DN15	400	1490			
DN20	250	950			
DN25		595		12	35
DN32		360		750	
DN40		235		480	
DN50		595 360		31	10

Maximum Close-off Pressures (in kPa), for Valves with Stainless Steel Trim and Electric Actuators

Size	VA-731x	VA-715x	VA-77xx	VA-720x	VA78xx
DN15		1600		1600	
DN15		1600		1600	
DN15		930		1600	
DN20		595		1220	
DN25		370		77	70
DN32		230		470	
DN40		145		300	
DN50		90		190	



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Maximum Close-off Pressures (in kPa), for Valves with Brass Trim and Pneumatic Actuators

	Valves	2-way PDTC or with 138 kP	r 3-way Valves a air supply			
Actuator			Spring Ra			
	Size	21 to 42	63 to 91	21 to 42	63 to 91	
	DN15	1600	1600	580	1600	
V 2004	DN15	1180	530	165	715	
V-3801	DN15	670	300	90	405	
	DN20	430	190	55	255	
	DN15	1600	1600	1430	1600	
	DN15	1600	1100	405	1450	
	DN15	1310	620	230	820	
V-3000	DN20	835	390	145	525	
	DN25	520	240	85	315	
	DN32	320	145	50	195	
	DN40	200	95	35	125	
	DN50	130	60	20	85	
V-400	DN25	1600	985	400	1275	
	DN32	1220	600	240	780	
	DN40	785	385	160	495	
	DN50	500	250	95	315	



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Maximum Close-off Pressures (in kPa), for Valves with Stainless Steel Trim and Pneumatic Actuators

	Valves	2-way PDTC or 3-way Valves 2-way PDTO or 3 with 138 kPa air supply with 0 kPa a				
Actuator		Spring Range kPa *				
	Size	21 to 42	63 to 91	21 to 42	63 to 91	
	DN15	1600	1600	1090	1600	
	DN15	1600	825	300	1085	
V-3000	DN15	980	470	170	615	
	DN20	630	295	110	395	
	DN25	385	180	60	240	
	DN32	240	110	35	145	
	DN15	1600	1600	1600	1600	
V-400	DN15	1600	1600	1345	1600	
	DN15	1600	1600	760	1600	
	DN20	1600	1175	485	1520	
	DN25	1510	740	295	960	
	DN32	925	450	185	585	
	DN40	595	290	115	370	
	DN50	380	185	75	240	

Note

^{*} The recommended spring ranges for use with a V-9502 Positioner are: 21 to 42 kPa for PDTC valves, 63 to 91 kPa for PDTO valves and 63 to 91 kPa for three way valves.