

HVAC control products **Valves**

Plant valves

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 K_{VS} and 100:1 at 1.6...40 K_{VS}

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 /

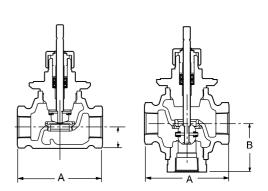
- With all other actuators:

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

260 kPa Saturated Steam - Valves with stainless steel trim: 2 to 170 °C /

690 kPa Saturated Steam





Dimensions in mm

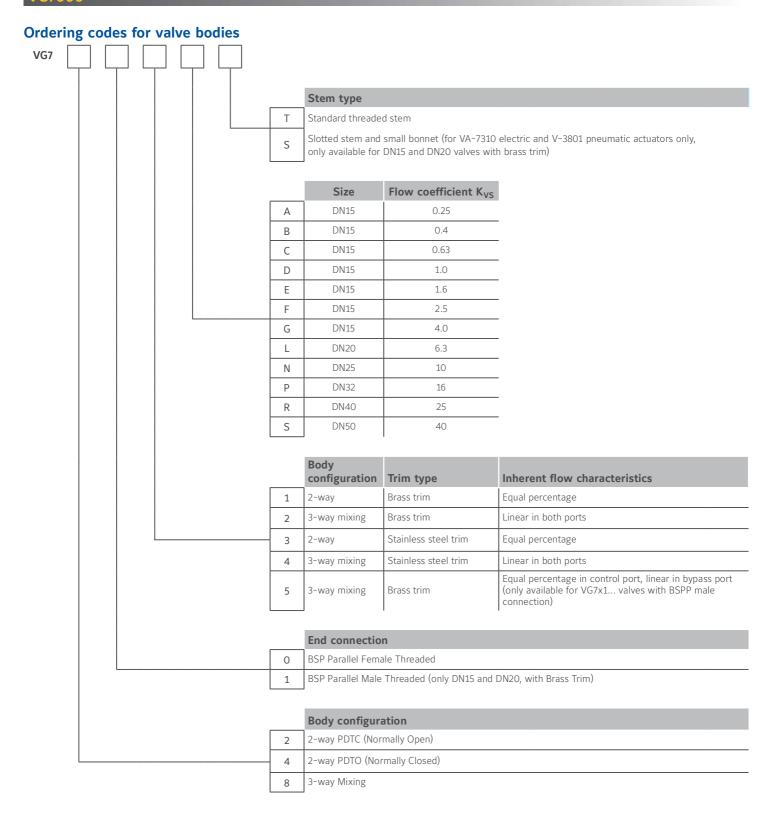
		В			
Body Size	А	2-way PDTC	2-way PDTO	3-way	
DN15	76	21	39	46	
DN20	81	24	41	54	
DN25	104	29	44	65	
DN32	119	34	51	70	
DN40	130	55	70	85	
DN50	150	53	72	95	



HVAC control products Valves

Plant valves

VG7000





HVAC control products **Valves**

Plant valves

VG7000

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		1235		
DN32		360		750		
DN40		235		235 480		
DN50		145		145 310		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		30	00
DN50		90		190	



HVAC control products **Valves**

Plant valves

VG7000

Maximum close-off pressures (in kPa), for valves with brass trim and pneumatic actuators

	Valves		r 3-way valves a air supply	2-way PDTO or 3-way valves with 0 kPa air supply		
		Spring range kPa *				
Actuator	Size	21 to 42	63 to 91	21 to 42	63 to 91	
	DN15	1600	1600	580	1600	
V-3801	DN15	1180	530	165	715	
V-2001	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 2000	DN20	835	390	145	525	
V-3000	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	



HVAC control products **Valves**

Plant valves

VG7000

Maximum close-off pressures (in kPa), for valves with stainless steel trim and pneumatic actuators

	Valves	2-way PDTC or 3-way valves with 138 kPa air supply		2-way PDTO or 3-way valves with 0 kPa air supply		
		Spring range kPa *				
Actuator	Size	21 to 42	63 to 91	21 to 42	63 to 91	
	DN15	1600	1600	1090	1600	
V-3000 -	DN15	1600	825	300	1085	
	DN15	980	470	170	615	
	DN20	630	295	110	395	
	DN25	385	180	60	240	
	DN32	240	110	35	145	
V-400 -	DN15	1600	1600	1600	1600	
	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.