

# VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators

## Description

VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators control hot or chilled water or 38 psig saturated steam.

Refer to the *VG7000 Series Bronze Control Valves Product Bulletin (LIT-977140)* for important product application information.

- fluid temperature: 35 to 284°F (2 to 140°C), 38 psig saturated steam
- valve body static pressure rating: ANSI Class 250
- factory or field assembly
- for optional V-9502-90 Positioner, add a **P** to the end of the code number (not available with enclosed spring actuator)



**V-3000-8012 Pneumatic Actuator  
Mounted on VG7441 Brass Globe Valve**

## Features

- rugged actuator die-cast enclosure, fits VG7000 Series valves 1/2 through 2 in.
- effective diaphragm area: 8 sq. in.
- controls: hot or chilled water, 38 psig saturated steam
- valve trim: brass
- maximum supply air pressure: 25 psig (172 kPa)

## Repair Information

If the VG7000 Series Globe Valve fails to operate within its specifications, replace the valve body, actuator, or entire assembly. For replacement parts, contact the nearest Johnson Controls® representative.

## Selection Charts

### VG7000 Series Valve Assemblies with V-3000-8012 Exposed Pneumatic Actuators (Part 1 of 3)

Actuator Code Number		V-3000-8012							
Mounting Kit	1/2 and 3/4 in.		VG7000-1001		VG7000-1002		VG7000-1003		
	1 and 1-1/4 in.		VG7000-1004		VG7000-1005		VG7000-1006		
	1-1/2 and 2 in.		VG7000-1007		VG7000-1008		VG7000-1009		
Spring Range			3 to 6 psig			4 to 8 psig		9 to 13 psig	
Valve Code Number	Size, in.	Cv	Closeoff psig	Code Number	Closeoff psig	Code Number	Closeoff psig	Code Number	
<b>Two-Way Normally Open — NPT End Connections (To specify a factory-mounted pneumatic positioner, add a P to the end of the code number.)</b>									
VG7241CT	1/2	0.73	365	VG7241CT+3008B	339	VG7241CT+3008D	191	VG7241CT+3008E	
VG7241ET	1/2	1.8	365	VG7241ET+3008B	339	VG7241ET+3008D	191	VG7241ET+3008E	
VG7241GT	1/2	4.6	225	VG7241GT+3008B	192	VG7241GT+3008D	108	VG7241GT+3008E	
VG7241LT	3/4	7.3	144	VG7241LT+3008B	122	VG7241LT+3008D	69	VG7241LT+3008E	
VG7241NT	1	11.6	90	VG7241NT+3008B	76	VG7241NT+3008D	42	VG7241NT+3008E	
VG7241PT	1-1/4	18.5	55	VG7241PT+3008B	47	VG7241PT+3008D	26	VG7241PT+3008E	
VG7241RT	1-1/2	28.9	35	VG7241RT+3008B	30	VG7241RT+3008D	16	VG7241RT+3008E	
VG7241ST	2	46.2	22	VG7241ST+3008B	19	VG7241ST+3008D	11	VG7241ST+3008E	
<b>Two-Way Normally Closed — NPT End Connections (To specify a factory-mounted pneumatic positioner, add a P to the end of the code number.)</b>									
VG7441CT	1/2	0.73	100	VG7441CT+3008B	142	VG7441CT+3008D	348	VG7441CT+3008E	
VG7441ET	1/2	1.8	100	VG7441ET+3008B	142	VG7441ET+3008D	348	VG7441ET+3008E	
VG7441GT	1/2	4.6	49	VG7441GT+3008B	68	VG7441GT+3008D	168	VG7441GT+3008E	
VG7441LT	3/4	7.3	29	VG7441LT+3008B	41	VG7441LT+3008D	100	VG7441LT+3008E	
VG7441NT	1	11.6	17	VG7441NT+3008B	25	VG7441NT+3008D	65	VG7441NT+3008E	
VG7441PT	1-1/4	18.5	10	VG7441PT+3008B	14	VG7441PT+3008D	37	VG7441PT+3008E	
VG7441RT	1-1/2	28.9	6	VG7441RT+3008B	9	VG7441RT+3008D	23	VG7441RT+3008E	
VG7441ST	2	46.2	4	VG7441ST+3008B	6	VG7441ST+3008D	14	VG7441ST+3008E	
<b>Three-Way Mixing — NPT End Connections (To specify a factory-mounted pneumatic positioner, add a P to the end of the code number.)</b>									
VG7842CT	1/2	0.73	365/100	VG7842CT+3008B	339/142	VG7842CT+3008D	191/348	VG7842CT+3008E	
VG7842ET	1/2	1.8	365/100	VG7842ET+3008B	339/142	VG7842ET+3008D	191/348	VG7842ET+3008E	
VG7842GT	1/2	4.6	225/49	VG7842GT+3008B	192/68	VG7842GT+3008D	108/168	VG7842GT+3008E	
VG7842LT	3/4	7.3	144/29	VG7842LT+3008B	122/41	VG7842LT+3008D	69/100	VG7842LT+3008E	
VG7842NT	1	11.6	90/17	VG7842NT+3008B	76/25	VG7842NT+3008D	42/65	VG7842NT+3008E	
VG7842PT	1-1/4	18.5	55/10	VG7842PT+3008B	47/14	VG7842PT+3008D	26/37	VG7842PT+3008E	
VG7842RT	1-1/2	28.9	35/6	VG7842RT+3008B	30/9	VG7842RT+3008D	16/23	VG7842RT+3008E	
VG7842ST	2	46.2	22/4	VG7842ST+3008B	19/6	VG7842ST+3008D	11/14	VG7842ST+3008E	

## VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators (Continued)

### VG7000 Series Valve Assemblies with V-3000-8012 Exposed Pneumatic Actuators (Part 2 of 3)

Actuator Code Number			V-3000-8012						
Mounting Kit	1/2 and 3/4 in.		VG7000-1001		VG7000-1002		VG7000-1003		
	1 and 1-1/4 in.		VG7000-1004		VG7000-1005		VG7000-1006		
	1-1/2 and 2 in.		VG7000-1007		VG7000-1008		VG7000-1009		
Spring Range			3 to 6 psig			4 to 8 psig		9 to 13 psig	
Valve Code Number	Size, in.	Cv	Closeoff psig	Code Number	Closeoff psig	Code Number	Closeoff psig	Code Number	
<b>Two-Way Normally Open — Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7281CT	1/2	0.73	365	VG7281CT+3008B	339	VG7281CT+3008D	191	VG7281CT+3008E	
VG7281ET	1/2	1.8	365	VG7281ET+3008B	339	VG7281ET+3008D	191	VG7281ET+3008E	
VG7281GT	1/2	4.6	225	VG7281GT+3008B	192	VG7281GT+3008D	108	VG7281GT+3008E	
VG7281LT	3/4	7.3	144	VG7281LT+3008B	122	VG7281LT+3008D	69	VG7281LT+3008E	
VG7281NT	1	11.6	90	VG7281NT+3008B	76	VG7281NT+3008D	42	VG7281NT+3008E	
VG7281PT	1-1/4	18.5	55	VG7281PT+3008B	47	VG7281PT+3008D	26	VG7281PT+3008E	
VG7281RT	1-1/2	28.9	35	VG7281RT+3008B	30	VG7281RT+3008D	16	VG7281RT+3008E	
VG7281ST	2	46.2	22	VG7281ST+3008B	19	VG7281ST+3008D	11	VG7281ST+3008E	
<b>Two-Way Normally Closed — Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7481CT	1/2	0.73	100	VG7481CT+3008B	142	VG7481CT+3008D	348	VG7481CT+3008E	
VG7481ET	1/2	1.8	100	VG7481ET+3008B	142	VG7481ET+3008D	348	VG7481ET+3008E	
VG7481GT	1/2	4.6	49	VG7481GT+3008B	68	VG7481GT+3008D	168	VG7481GT+3008E	
VG7481LT	3/4	7.3	29	VG7481LT+3008B	41	VG7481LT+3008D	100	VG7481LT+3008E	
VG7481NT	1	11.6	17	VG7481NT+3008B	25	VG7481NT+3008D	65	VG7481NT+3008E	
VG7481PT	1-1/4	18.5	10	VG7481PT+3008B	14	VG7481PT+3008D	37	VG7481PT+3008E	
VG7481RT	1-1/2	28.9	6	VG7481RT+3008B	9	VG7481RT+3008D	23	VG7481RT+3008E	
VG7481ST	2	46.2	4	VG7481ST+3008B	6	VG7481ST+3008D	14	VG7481ST+3008E	
<b>Three-Way Mixing — Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7882CT	1/2	0.73	365/100	VG7882CT+3008B	339/142	VG7882CT+3008D	191/348	VG7882CT+3008E	
VG7882ET	1/2	1.8	365/100	VG7882ET+3008B	339/142	VG7882ET+3008D	191/348	VG7882ET+3008E	
VG7882GT	1/2	4.6	225/49	VG7882GT+3008B	192/68	VG7882GT+3008D	108/168	VG7882GT+3008E	
VG7882LT	3/4	7.3	144/29	VG7882LT+3008B	122/41	VG7882LT+3008D	69/100	VG7882LT+3008E	
VG7882NT	1	11.6	90/17	VG7882NT+3008B	76/25	VG7882NT+3008D	42/65	VG7882NT+3008E	
VG7882PT	1-1/4	18.5	55/10	VG7882PT+3008B	47/14	VG7882PT+3008D	26/37	VG7882PT+3008E	
VG7882RT	1-1/2	28.9	35/6	VG7882RT+3008B	30/9	VG7882RT+3008D	16/23	VG7882RT+3008E	
VG7882ST	2	46.2	22/4	VG7882ST+3008B	19/6	VG7882ST+3008D	11/14	VG7882ST+3008E	
<b>Two-Way Normally Open — 3/8 in. Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7271CT	1/2	0.73	365	VG7271CT+3008B	339	VG7271CT+3008D	191	VG7271CT+3008E	
VG7271ET	1/2	1.8	365	VG7271ET+3008B	339	VG7271ET+3008D	191	VG7271ET+3008E	
VG7271GT	1/2	4.6	225	VG7271GT+3008B	192	VG7271GT+3008D	108	VG7271GT+3008E	
<b>Two-Way Normally Closed — 3/8 in. Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7471CT	1/2	0.73	100	VG7471CT+3008B	142	VG7471CT+3008D	348	VG7471CT+3008E	
VG7471ET	1/2	1.8	100	VG7471ET+3008B	142	VG7471ET+3008D	348	VG7471ET+3008E	
VG7471GT	1/2	4.6	49	VG7471GT+3008B	68	VG7471GT+3008D	168	VG7471GT+3008E	
<b>Three-Way Mixing — 3/8 in. Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7872CT	1/2	0.73	365/100	VG7872CT+3008B	339/142	VG7872CT+3008D	191/348	VG7872CT+3008E	
VG7872ET	1/2	1.8	365/100	VG7872ET+3008B	339/142	VG7872ET+3008D	191/348	VG7872ET+3008E	
VG7872GT	1/2	4.6	225/49	VG7872GT+3008B	192/68	VG7872GT+3008D	108/168	VG7872GT+3008E	
<b>Two-Way Normally Open — 3/4 in. Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7291CT	1/2	0.73	365	VG7291CT+3008B	339	VG7291CT+3008D	191	VG7291CT+3008E	
VG7291ET	1/2	1.8	365	VG7291ET+3008B	339	VG7291ET+3008D	191	VG7291ET+3008E	
VG7291GT	1/2	4.6	225	VG7291GT+3008B	192	VG7291GT+3008D	108	VG7291GT+3008E	
<b>Two-Way Normally Closed — 3/4 in. Union Sweat End Connections (To specify a factory-mounted pneumatic postioner, add a P to the end of the code number.)</b>									
VG7491CT	1/2	0.73	100	VG7491CT+3008B	142	VG7491CT+3008D	348	VG7491CT+3008E	
VG7491ET	1/2	1.8	100	VG7491ET+3008B	142	VG7491ET+3008D	348	VG7491ET+3008E	
VG7491GT	1/2	4.6	49	VG7491GT+3008B	68	VG7491GT+3008D	168	VG7491GT+3008E	

## VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators (Continued)

### VG7000 Series Valve Assemblies with V-3000-8012 Exposed Pneumatic Actuators (Part 3 of 3)

Actuator Code Number		V-3000-8012						
Mounting Kit	1/2 and 3/4 in.	VG7000-1001			VG7000-1002		VG7000-1003	
	1 and 1-1/4 in.	VG7000-1004			VG7000-1005		VG7000-1006	
	1-1/2 and 2 in.	VG7000-1007			VG7000-1008		VG7000-1009	
Spring Range		3 to 6 psig			4 to 8 psig		9 to 13 psig	
Valve Code Number	Size, in.	Cv	Closeoff psig	Code Number	Closeoff psig	Code Number	Closeoff psig	Code Number
<b>Three-Way Mixing — 3/4 in. Union Sweat End Connections (To specify a factory-mounted pneumatic positioner, add a P to the end of the code number.)</b>								
VG7892CT	1/2	0.73	365/100	VG7892CT+3008B	339/142	VG7892CT+3008D	191/348	VG7892CT+3008E
VG7892ET	1/2	1.8	365/100	VG7892ET+3008B	339/142	VG7892ET+3008D	191/348	VG7892ET+3008E
VG7892GT	1/2	4.6	225/49	VG7892GT+3008B	192/68	VG7892GT+3008D	108/168	VG7892GT+3008E
<b>Two-Way Normally Open — Union Globe End Connections (No Positioner Option Available)</b>								
VG7251CT	1/2	0.73	365	VG7251CT+3008B	339	VG7251CT+3008D	191	VG7251CT+3008E
VG7251ET	1/2	1.8	365	VG7251ET+3008B	339	VG7251ET+3008D	191	VG7251ET+3008E
VG7251GT	1/2	4.6	225	VG7251GT+3008B	192	VG7251GT+3008D	108	VG7251GT+3008E
VG7251LT	3/4	7.3	144	VG7251LT+3008B	122	VG7251LT+3008D	69	VG7251LT+3008E
VG7251NT	1	11.6	90	VG7251NT+3008B	76	VG7251NT+3008D	42	VG7251NT+3008E
VG7251PT	1-1/4	18.5	55	VG7251PT+3008B	47	VG7251PT+3008D	26	VG7251PT+3008E
VG7251RT	1-1/2	28.9	35	VG7251RT+3008B	30	VG7251RT+3008D	16	VG7251RT+3008E
<b>Two-Way Normally Closed — Union Globe End Connections (No Positioner Option Available)</b>								
VG7451CT	1/2	0.73	100	VG7451CT+3008B	142	VG7451CT+3008D	348	VG7451CT+3008E
VG7451ET	1/2	1.8	100	VG7451ET+3008B	142	VG7451ET+3008D	348	VG7451ET+3008E
VG7451GT	1/2	4.6	49	VG7451GT+3008B	68	VG7451GT+3008D	168	VG7451GT+3008E
<b>Two-Way Normally Open — Union Angle End Connections (No Positioner Option Available)</b>								
VG7551CT	1/2	0.73	365	VG7551CT+3008B	339	VG7551CT+3008D	191	VG7551CT+3008E
VG7551ET	1/2	1.8	365	VG7551ET+3008B	339	VG7551ET+3008D	191	VG7551ET+3008E
VG7551GT	1/2	4.6	225	VG7551GT+3008B	192	VG7551GT+3008D	108	VG7551GT+3008E
VG7551LT	3/4	7.3	144	VG7551LT+3008B	122	VG7551LT+3008D	69	VG7551LT+3008E
VG7551NT	1	11.6	90	VG7551NT+3008B	76	VG7551NT+3008D	42	VG7551NT+3008E
VG7551PT	1-1/4	18.5	55	VG7551PT+3008B	47	VG7551PT+3008D	26	VG7551PT+3008E
VG7551RT	1-1/2	28.9	35	VG7551RT+3008B	30	VG7551RT+3008D	16	VG7551RT+3008E

### VG7000 Series Valve Assemblies with V-3000-8003 Enclosed Pneumatic Actuators (Part 1 of 3)

Actuator Code Number		V-3000-8003						
Mounting Kit	1/2 and 3/4 in.	VG7000-1001			VG7000-1002		VG7000-1003	
	1 and 1-1/4 in.	VG7000-1004			VG7000-1005		VG7000-1006	
	1-1/2 and 2 in.	VG7000-1007			VG7000-1008		VG7000-1009	
Spring Range		3 to 6 psig			4 to 8 psig		9 to 13 psig	
Valve Code Number	Size, in.	Cv	Closeoff psig	Code Number	Closeoff psig	Code Number	Closeoff psig	Code Number
<b>Two-Way Normally Open — NPT End Connections</b>								
VG7241CT	1/2	0.73	365	VG7241CT+3003B	339	VG7241CT+3003D	191	VG7241CT+3003E
VG7241ET	1/2	1.8	365	VG7241ET+3003B	339	VG7241ET+3003D	191	VG7241ET+3003E
VG7241GT	1/2	4.6	225	VG7241GT+3003B	192	VG7241GT+3003D	108	VG7241GT+3003E
VG7241LT	3/4	7.3	144	VG7241LT+3003B	122	VG7241LT+3003D	69	VG7241LT+3003E
VG7241NT	1	11.6	90	VG7241NT+3003B	76	VG7241NT+3003D	42	VG7241NT+3003E
VG7241PT	1-1/4	18.5	55	VG7241PT+3003B	47	VG7241PT+3003D	26	VG7241PT+3003E
VG7241RT	1-1/2	28.9	35	VG7241RT+3003B	30	VG7241RT+3003D	16	VG7241RT+3003E
VG7241ST	2	46.2	22	VG7241ST+3003B	19	VG7241ST+3003D	11	VG7241ST+3003E
<b>Two-Way Normally Closed — NPT End Connections</b>								
VG7441CT	1/2	0.73	100	VG7441CT+3003B	142	VG7441CT+3003D	348	VG7441CT+3003E
VG7441ET	1/2	1.8	100	VG7441ET+3003B	142	VG7441ET+3003D	348	VG7441ET+3003E
VG7441GT	1/2	4.6	49	VG7441GT+3003B	68	VG7441GT+3003D	168	VG7441GT+3003E
VG7441LT	3/4	7.3	29	VG7441LT+3003B	41	VG7441LT+3003D	100	VG7441LT+3003E
VG7441NT	1	11.6	17	VG7441NT+3003B	25	VG7441NT+3003D	65	VG7441NT+3003E
VG7441PT	1-1/4	18.5	10	VG7441PT+3003B	14	VG7441PT+3003D	37	VG7441PT+3003E
VG7441RT	1-1/2	28.9	6	VG7441RT+3003B	9	VG7441RT+3003D	23	VG7441RT+3003E
VG7441ST	2	46.2	4	VG7441ST+3003B	6	VG7441ST+3003D	14	VG7441ST+3003E

## VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators (Continued)

### VG7000 Series Valve Assemblies with V-3000-8003 Enclosed Pneumatic Actuators (Part 2 of 3)

Actuator Code Number			V-3000-8003						
Mounting Kit	1/2 and 3/4 in.		VG7000-1001		VG7000-1002		VG7000-1003		
	1 and 1-1/4 in.		VG7000-1004		VG7000-1005		VG7000-1006		
	1-1/2 and 2 in.		VG7000-1007		VG7000-1008		VG7000-1009		
Spring Range			3 to 6 psig			4 to 8 psig		9 to 13 psig	
Valve Code Number	Size, in.	Cv	Closeoff psig	Code Number	Closeoff psig	Code Number	Closeoff psig	Code Number	
<b>Three-Way Mixing — NPT End Connections</b>									
VG7842CT	1/2	0.73	365/100	VG7842CT+3003B	339/142	VG7842CT+3003D	191/348	VG7842CT+3003E	
VG7842ET	1/2	1.8	365/100	VG7842ET+3003B	339/142	VG7842ET+3003D	191/348	VG7842ET+3003E	
VG7842GT	1/2	4.6	225/49	VG7842GT+3003B	192/68	VG7842GT+3003D	108/168	VG7842GT+3003E	
VG7842LT	3/4	7.3	144/29	VG7842LT+3003B	122/41	VG7842LT+3003D	69/100	VG7842LT+3003E	
VG7842NT	1	11.6	90/17	VG7842NT+3003B	76/25	VG7842NT+3003D	42/65	VG7842NT+3003E	
VG7842PT	1-1/4	18.5	55/10	VG7842PT+3003B	47/14	VG7842PT+3003D	26/37	VG7842PT+3003E	
VG7842RT	1-1/2	28.9	35/6	VG7842RT+3003B	30/9	VG7842RT+3003D	16/23	VG7842RT+3003E	
VG7842ST	2	46.2	22/4	VG7842ST+3003B	19/6	VG7842ST+3003D	11/14	VG7842ST+3003E	
<b>Two-Way Normally Open — Union Sweat End Connections</b>									
VG7281CT	1/2	0.73	365	VG7281CT+3003B	339	VG7281CT+3003D	191	VG7281CT+3003E	
VG7281ET	1/2	1.8	365	VG7281ET+3003B	339	VG7281ET+3003D	191	VG7281ET+3003E	
VG7281GT	1/2	4.6	225	VG7281GT+3003B	192	VG7281GT+3003D	108	VG7281GT+3003E	
VG7281LT	3/4	7.3	144	VG7281LT+3003B	122	VG7281LT+3003D	69	VG7281LT+3003E	
VG7281NT	1	11.6	90	VG7281NT+3003B	76	VG7281NT+3003D	42	VG7281NT+3003E	
VG7281PT	1-1/4	18.5	55	VG7281PT+3003B	47	VG7281PT+3003D	26	VG7281PT+3003E	
VG7281RT	1-1/2	28.9	35	VG7281RT+3003B	30	VG7281RT+3003D	16	VG7281RT+3003E	
VG7281ST	2	46.2	22	VG7281ST+3003B	19	VG7281ST+3003D	11	VG7281ST+3003E	
<b>Two-Way Normally Closed — Union Sweat End Connections</b>									
VG7481CT	1/2	0.73	100	VG7481CT+3003B	142	VG7481CT+3003D	348	VG7481CT+3003E	
VG7481ET	1/2	1.8	100	VG7481ET+3003B	142	VG7481ET+3003D	348	VG7481ET+3003E	
VG7481GT	1/2	4.6	49	VG7481GT+3003B	68	VG7481GT+3003D	168	VG7481GT+3003E	
VG7481LT	3/4	7.3	29	VG7481LT+3003B	41	VG7481LT+3003D	100	VG7481LT+3003E	
VG7481NT	1	11.6	17	VG7481NT+3003B	25	VG7481NT+3003D	65	VG7481NT+3003E	
VG7481PT	1-1/4	18.5	10	VG7481PT+3003B	14	VG7481PT+3003D	37	VG7481PT+3003E	
VG7481RT	1-1/2	28.9	6	VG7481RT+3003B	9	VG7481RT+3003D	23	VG7481RT+3003E	
VG7481ST	2	46.2	4	VG7481ST+3003B	6	VG7481ST+3003D	14	VG7481ST+3003E	
<b>Three-Way Mixing — Union Sweat End Connections</b>									
VG7882CT	1/2	0.73	365/100	VG7882CT+3003B	339/142	VG7882CT+3003D	191/348	VG7882CT+3003E	
VG7882ET	1/2	1.8	365/100	VG7882ET+3003B	339/142	VG7882ET+3003D	191/348	VG7882ET+3003E	
VG7882GT	1/2	4.6	225/49	VG7882GT+3003B	192/68	VG7882GT+3003D	108/168	VG7882GT+3003E	
VG7882LT	3/4	7.3	144/29	VG7882LT+3003B	122/41	VG7882LT+3003D	69/100	VG7882LT+3003E	
VG7882NT	1	11.6	90/17	VG7882NT+3003B	76/25	VG7882NT+3003D	42/65	VG7882NT+3003E	
VG7882PT	1-1/4	18.5	55/10	VG7882PT+3003B	47/14	VG7882PT+3003D	26/37	VG7882PT+3003E	
VG7882RT	1-1/2	28.9	35/6	VG7882RT+3003B	30/9	VG7882RT+3003D	16/23	VG7882RT+3003E	
VG7882ST	2	46.2	22/4	VG7882ST+3003B	19/6	VG7882ST+3003D	11/14	VG7882ST+3003E	
<b>Two-Way Normally Open — 3/8 in. Union Sweat End Connections</b>									
VG7271CT	1/2	0.73	365	VG7271CT+3003B	339	VG7271CT+3003D	191	VG7271CT+3003E	
VG7271ET	1/2	1.8	365	VG7271ET+3003B	339	VG7271ET+3003D	191	VG7271ET+3003E	
VG7271GT	1/2	4.6	225	VG7271GT+3003B	192	VG7271GT+3003D	108	VG7271GT+3003E	
<b>Two-Way Normally Closed — 3/8 in. Union Sweat End Connections</b>									
VG7471CT	1/2	0.73	100	VG7471CT+3003B	142	VG7471CT+3003D	348	VG7471CT+3003E	
VG7471ET	1/2	1.8	100	VG7471ET+3003B	142	VG7471ET+3003D	348	VG7471ET+3003E	
VG7471GT	1/2	4.6	49	VG7471GT+3003B	68	VG7471GT+3003D	168	VG7471GT+3003E	
<b>Three-Way Mixing — 3/8 in. Union Sweat End Connections</b>									
VG7872CT	1/2	0.73	365/100	VG7872CT+3003B	339/142	VG7872CT+3003D	191/348	VG7872CT+3003E	
VG7872ET	1/2	1.8	365/100	VG7872ET+3003B	339/142	VG7872ET+3003D	191/348	VG7872ET+3003E	
VG7872GT	1/2	4.6	225/49	VG7872GT+3003B	192/68	VG7872GT+3003D	108/168	VG7872GT+3003E	

## VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators (Continued)

### VG7000 Series Valve Assemblies with V-3000-8003 Enclosed Pneumatic Actuators (Part 3 of 3)

Actuator Code Number		V-3000-8003							
Mounting Kit	1/2 and 3/4 in.		VG7000-1001		VG7000-1002		VG7000-1003		
	1 and 1-1/4 in.		VG7000-1004		VG7000-1005		VG7000-1006		
	1-1/2 and 2 in.		VG7000-1007		VG7000-1008		VG7000-1009		
Spring Range		3 to 6 psig				4 to 8 psig		9 to 13 psig	
Valve Code Number	Size, in.	Cv	Closeoff psig	Code Number	Closeoff psig	Code Number	Closeoff psig	Code Number	
<b>Two-Way Normally Open — 3/4 in. Union Sweat End Connections</b>									
VG7291CT	1/2	0.73	365	VG7291CT+3003B	339	VG7291CT+3003D	191	VG7291CT+3003E	
VG7291ET	1/2	1.8	365	VG7291ET+3003B	339	VG7291ET+3003D	191	VG7291ET+3003E	
VG7291GT	1/2	4.6	225	VG7291GT+3003B	192	VG7291GT+3003D	108	VG7291GT+3003E	
<b>Two-Way Normally Closed — 3/4 in. Union Sweat End Connections</b>									
VG7491CT	1/2	0.73	100	VG7491CT+3003B	142	VG7491CT+3003D	348	VG7491CT+3003E	
VG7491ET	1/2	1.8	100	VG7491ET+3003B	142	VG7491ET+3003D	348	VG7491ET+3003E	
VG7491GT	1/2	4.6	49	VG7491GT+3003B	68	VG7491GT+3003D	168	VG7491GT+3003E	
<b>Three-Way Mixing — 3/4 in. Union Sweat End Connections</b>									
VG7892CT	1/2	0.73	365/100	VG7892CT+3003B	339/142	VG7892CT+3003D	191/348	VG7892CT+3003E	
VG7892ET	1/2	1.8	365/100	VG7892ET+3003B	339/142	VG7892ET+3003D	191/348	VG7892ET+3003E	
VG7892GT	1/2	4.6	225/49	VG7892GT+3003B	192/68	VG7892GT+3003D	108/168	VG7892GT+3003E	
<b>Two-Way Normally Open — Union Globe End Connections</b>									
VG7251CT	1/2	0.73	365	VG7251CT+3003B	339	VG7251CT+3003D	191	VG7251CT+3003E	
VG7251ET	1/2	1.8	365	VG7251ET+3003B	339	VG7251ET+3003D	191	VG7251ET+3003E	
VG7251GT	1/2	4.6	225	VG7251GT+3003B	192	VG7251GT+3003D	108	VG7251GT+3003E	
VG7251LT	3/4	7.3	144	VG7251LT+3003B	122	VG7251LT+3003D	69	VG7251LT+3003E	
VG7251NT	1	11.6	90	VG7251NT+3003B	76	VG7251NT+3003D	42	VG7251NT+3003E	
VG7251PT	1-1/4	18.5	55	VG7251PT+3003B	47	VG7251PT+3003D	26	VG7251PT+3003E	
VG7251RT	1-1/2	28.9	35	VG7251RT+3003B	30	VG7251RT+3003D	16	VG7251RT+3003E	
<b>Two-Way Normally Closed — Union Globe End Connections</b>									
VG7451CT	1/2	0.73	100	VG7451CT+3003B	142	VG7451CT+3003D	348	VG7451CT+3003E	
VG7451ET	1/2	1.8	100	VG7451ET+3003B	142	VG7451ET+3003D	348	VG7451ET+3003E	
VG7451GT	1/2	4.6	49	VG7451GT+3003B	68	VG7451GT+3003D	168	VG7451GT+3003E	
<b>Two-Way Normally Open — Union Angle End Connections</b>									
VG7551CT	1/2	0.73	365	VG7551CT+3003B	339	VG7551CT+3003D	191	VG7551CT+3003E	
VG7551ET	1/2	1.8	365	VG7551ET+3003B	339	VG7551ET+3003D	191	VG7551ET+3003E	
VG7551GT	1/2	4.6	225	VG7551GT+3003B	192	VG7551GT+3003D	108	VG7551GT+3003E	
VG7551LT	3/4	7.3	144	VG7551LT+3003B	122	VG7551LT+3003D	69	VG7551LT+3003E	
VG7551NT	1	11.6	90	VG7551NT+3003B	76	VG7551NT+3003D	42	VG7551NT+3003E	
VG7551PT	1-1/4	18.5	55	VG7551PT+3003B	47	VG7551PT+3003D	26	VG7551PT+3003E	
VG7551RT	1-1/2	28.9	35	VG7551RT+3003B	30	VG7551RT+3003D	16	VG7551RT+3003E	

## VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators (Continued)

### Technical Specifications

VG7000 Series Brass Trim Globe Valves with V-3000 Pneumatic Actuators		
<b>Service<sup>1</sup></b>		Hot Water, Chilled Water, 50/50 Glycol Solutions, and Steam for HVAC Systems
<b>Fluid Temperature Limits</b>	<b>Water</b>	35 to 248°F (2 to 120°C) for V-3000-8003 35 to 284°F (2 to 140°C) for V-3000-8011
	<b>Steam</b>	38 psig (262 kPa) Saturated Steam
<b>Maximum Allowable Pressure/Temperature</b>	<b>Water</b>	400 psig (2,756 kPa) up to 150°F (66°C) Decreasing to 365 psig (2,515 kPa) at 248°F (120°C)
	<b>Steam</b>	38 psig (262 kPa) Saturated Steam at 284°F (140°C)
<b>Valve Body Pressure/Temperature Rating</b>		Meets Requirements of ANSI B16.15, Class 250
<b>Maximum Recommended Operating Pressure Drop</b>	<b>Water</b>	35 psig (241 kPa) for 1/2 through 1-1/4 in. Valves 30 psig (207 kPa) for 1-1/2 and 2 in. Valves
	<b>Steam</b>	15 psig (103 kPa)
<b>Flow Characteristics</b>	<b>Two-Way Valves</b>	Equal Percentage
	<b>Three-Way Valves</b>	Linear Flow Characteristics
<b>Rangeability<sup>2</sup></b>		> 25:1 According to EN60534-2-4 for the 1/2 in. Size, Cv 0.73, Valve Bodies > 100:1 According to EN60534-2-4 for All Other Valves
<b>Leakage</b>		0.01% of Maximum Flow per ANSI/FCI 70-2, Class 4
<b>Actuator Ambient Operating Temperature Limits</b>		-20 to 150°F (-29 to 66°C)
<b>Maximum Actuator Supply Pressure</b>		25 psig (172 kPa) Maximum
<b>Materials</b>	<b>Body</b>	Cast Bronze
	<b>Bonnet</b>	Brass
	<b>Stem</b>	Stainless Steel
	<b>Plug</b>	Brass
	<b>Seat</b>	Brass against Molded Elastomeric Disk
	<b>Packing</b>	Self-Adjusting Ethylene Propylene Rubber (EPR) Ring Pack U-Cups
<b>Compliance</b>	<b>Canada</b>	CRN: 0C1099.9087YTN

1. Refer to the VDI 2035 Guideline for recommended proper water treatment.

2. Rangeability is defined as the ratio of maximum controllable flow to minimum controllable flow.