



**Honeywell Globe Valves provide
precise control for any application**

QUALITY

For more than 50 years, Honeywell has provided a legacy of globe valves with the most precise control for any application. The current families of globe valves and actuators provide the rangeability and close off needed to keep the tightest control of your environment.



THREADED GLOBE VALVES AND ACTUATORS

Actuator Features	Actuator Number									
	ML6425A3022	ML6425B3013	ML7425A3013	ML7425B3012	ML6420A3049	ML6420A3056	ML7420A3055	ML7420A3063	ML6421A1017	ML7421A1032
Stem force (lbf)	135	135	135	135	135	135	135	135	405	405
Spring return in 12 sec. (Valve stem direction on power failure)	Down	Up	Down	Up						
Stroke (in.)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
0 - 10, 2 - 10 Vdc Control			●	●			●	●		●
Floating Control	●	●			●	●			●	
Timing (sec.)	90	90	90	90	60	30	60	30	95	95

Threaded Globe Valve Specifications																	
ANSI Body Class 150, 3/4" Stroke, Semi-Red Brass Body, PTFE Packing Materials																	
Valve Size	Cv	Flow ^a	Action	Trim Materials	Valve Number	Valve/Actuator Close-off Ratings (PSI) ^b											
2-Way	1/2"	0.73	Equal %	Direct	Brass Plug Stainless Steel Seat	V5011N1008	230	230	230	230	230	230	230				
	1/2"	1.16	Equal %	Direct		V5011N1016	230	230	230	230	230	230	230	230			
	1/2"	1.85	Equal %	Direct		V5011N1024	230	230	230	230	230	230	230	230			
	1/2"	2.9	Equal %	Direct		V5011N1032	230	230	230	230	230	230	230	230			
	1/2"	4.7	Equal %	Direct		V5011N1040	230	230	230	230	230	230	230	230			
	3/4"	7.3	Equal %	Direct		V5011N1057	230	230	230	230	230	230	230	230			
	1"	11.7	Equal %	Direct		V5011N1065	163	163	163	163	163	163	163	163	230	230	
	1 1/4"	18.7	Equal %	Direct		V5011N1073	104	104	104	104	104	104	104	104	230	230	
	1 1/2"	29.3	Equal %	Direct		V5011N1081	67	67	67	67	67	67	67	67	230	230	
	2"	46.8	Equal %	Direct		V5011N1099	37	37	37	37	37	37	37	37	126	126	
	2 1/2"	63	Equal %	Direct		Brass Plug and Seat	V5011F1105	28	28	28	28	28	28	28	28	100	100
	3"	100	Equal %	Direct			V5011F1113	16	16	16	16	16	16	16	16	61	61
	1/2"	0.73	Linear	Direct	V5011N2006		100	100	100	100	100	100	100	100			
	1/2"	1.16	Linear	Direct	Stainless Steel Plug and Seat	V5011N2014	100	100	100	100	100	100	100	100			
	1/2"	1.85	Linear	Direct		V5011N2022	100	100	100	100	100	100	100	100			
	1/2"	2.9	Linear	Direct		V5011N2030	100	100	100	100	100	100	100	100			
	1/2"	4.7	Linear	Direct		V5011N2048	100	100	100	100	100	100	100	100			
	3/4"	7.3	Linear	Direct		V5011N2055	100	100	100	100	100	100	100	100			
	1"	11.7	Linear	Direct		V5011N2063	100	100	100	100	100	100	100	100	100	100	
	1 1/4"	18.7	Linear	Direct		V5011N2071	100	100	100	100	100	100	100	100	100	100	
	1 1/2"	29.3	Linear	Direct		V5011N2089	67	67	67	67	67	67	67	67	67	100	100
	2"	46.8	Linear	Direct		V5011N2097	37	37	37	37	37	37	37	37	37	100	100
	2 1/2"	63	Linear	Direct		Brass Plug and Seat	V5011G1111	28	28	28	28	28	28	28	28	100	100
	3"	100	Linear	Direct			V5011G1129	16	16	16	16	16	16	16	16	61	61
1/2"	2.9	Equal %	Reverse	Brass Plug Stainless Steel Seat			V5011N3004	230	230	230	230	230	230	230	230		
1/2"	4.7	Equal %	Reverse		V5011N3012	230	230	230	230	230	230	230	230				
3/4"	7.3	Equal %	Reverse	Brass Plug and Integral Brass Seat	V5011N3020	230	230	230	230	230	230	230	230				
1"	11.7	Equal %	Reverse		V5011N3038	163	163	163	163	163	163	163	163	230	230		
1 1/4"	18.7	Equal %	Reverse		V5011N3046	104	104	104	104	104	104	104	104	230	230		
3-Way	1/2"	2.9	Equal %	Mixing	Brass Plug Stainless Steel Seat	V5013N1030	230	230	230	230	230	230	230				
	1/2"	4.7	Equal %	Mixing		V5013N1048	230	230	230	230	230	230	230	230			
	3/4"	7.3	Equal %	Mixing	Brass Plug and Seat	V5013N1055	230	230	230	230	230	230	230				
	1"	11.7	Equal %	Mixing		V5013N1063	163	163	163	163	163	163	163	163	230	230	
	1/4"	18.7	Equal %	Mixing		V5013N1071	104	104	104	104	104	104	104	104	230	230	
	1 1/2"	29.3	Equal %	Mixing		V5013N1089	67	67	67	67	67	67	67	67	230	230	
	2"	46.8	Equal %	Mixing		V5013N1097	37	37	37	37	37	37	37	37	126	126	

^a Use linear flow characteristic for steam service applications.

^b Blank spaces indicate combinations not recommended, because lower force actuators meet maximum close-off ratings specified by the valve body.

Globe Valve & Electronic Actuator Guide Specifications

1. GLOBE VALVE (LINEAR) ELECTRONIC ACTUATORS

- a) Direct coupled linear valve actuators shall be supplied by Honeywell. Actuators shall be UL and CSA listed, meet CE requirements, and be manufactured under ISO 9001 International Quality Control Standards.
- b) Linear electronic actuators shall mount directly to the bonnet of the valve, and connect to the valve stem without requiring adjustments, linkages, brackets, or adapters. Once mounted, a U-bolt must be used to secure the actuator to the valve collar. Single point, bolt, or single screw actuator type fastening techniques are not acceptable.
- c) Linear actuators shall be floating control with controllers that provide a switched or floating single pole double throw output, or modulating control actuators that provide a selectable analog output of 0 – 10 Vdc and 2 – 10 Vdc in one model.
- d) Optional auxiliary switches shall be available.
- e) Linear actuators shall have an ambient temperature rating of 14°F to 122°F and storage rating of -40°F to 158°F.
- f) Linear actuator will operate at 24 Vac (+10%, -15%) and 60Hz.
- g) Maximum power consumption shall equal 6 VA for ML6420, 7 VA for ML7420, 11 VA for ML6421, 12 VA for ML7421, 11 VA for ML6425, and 12 VA for ML7425.

2. GLOBE VALVES

- a) Globe valves shall be supplied by Honeywell. Valves shall be manufactured under ISO 9001 International Quality Control Standards.
- b) Globe valves shall have a Canadian registration number (CRN).
- c) Globe valves will be used for chilled or hot water, steam, or glycol solutions up to 50%.
- d) Valves shall have a nominal rangeability of 50:1 or better.
- e) Valves shall be designed for equal percentage flow characteristics with water and linear flow characteristics with steam applications.

A. Threaded

- a) Threaded globe valves 1/2" through 3" shall have brass bodies rated at ANSI Class 150.
- b) Valves shall have metal-to-metal seats, stainless-steel stems, and replaceable spring-loaded Teflon packings.

B. Flanged

- a) Two-way and three-way flanged globe valves 2-1/2" to 6" shall have cast iron bodies rated for ANSI Class 125 or 250.
- b) Valves shall allow for steam inlet pressures up to 100 psig and water inlet pressures up to 175 and 400 psig, on ANSI 125 and 250, respectively.

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