

# Cartridge Globe Valves



**Precise Control, Small Size**

**Honeywell**

# V58 Valves

## Quick Selection Guide

For over 50 years Honeywell has been manufacturing a premium VAV terminal unit. Honeywell's compact size and replacement capabilities make it ideal for VAV terminal units, fan coil units, small reheaters and recoolers.

### Common Features

- Maximum Static Pressure 235 psi
- Long stroke allows for a wider range of control
- Soft valve seat provides low leakage rate
- Insert replacement tool allows for the valve insert to be changed without having to drain the system. (1/2 to 3/4 inch only)
- Brass body and Stainless Steel stem
- Threaded plastic cover/manual handle allows manual operation
- Easily installed in areas where space is limited
- Leakage rate: less than 0.02% of Cv

Actuator O.S. Number	Flow	
	M6410A1029	M6435A1004
<b>Power Supply</b>	24 Vac	24 Vac
<b>24 Vac</b>	50/60 Hz	50/60 Hz
<b>Stem Force</b>	40.5 lb. [180 N]	40.5 lb. [180 N]
<b>Control</b>	2-Position SPDT	SPDT
	SPDT	SPDT
	Floating	•
	0(2)-10 Vdc	•
	4-20 mA (500 Ω resistor)	
	Pneumatic Spring Range	
<b>Fail-Safe Action</b>	Stay in Place	Stem up, 10 sec.
<b>Reversible Operation</b>	By wiring change	By wiring change
<b>Stroke timing (60 Hz)</b>	125 seconds	50 Seconds
<b>Manual Override</b> (Use valve dust cap)	•	•
<b>Position Indicator</b>	•	•
<b>Conduit Connection</b>	•	•
<b>Plenum Cable</b>	•	•
<b>Corrosion Resistant</b>	•	•



2-way

Valve Size (inches)	Flow Capacity (Cv) / [kvs]	Pipe Connection Type	Flow Characteristic	Valve Closes	Valve O.S. Number		
1/2 in.	0.19 [0.16]	NPT (internal thread)	Equal%	Stem Down <sup>2</sup>	V5862A2005	232	232
	0.19 [0.16]	Sweat			V5852A2007	232	232
	0.29 [0.25]	NPT (internal thread)			V5862A2013	232	232
	0.29 [0.25]	Sweat			V5852A2015	232	232
	0.47 [0.40]	NPT (internal thread)			V5862A2021	232	232
	0.47 [0.40]	Sweat			V5852A2023	232	232
	0.74 [0.63]	NPT (internal thread)			V5862A2039	232	232
	0.74 [0.63]	Sweat			V5852A2031	232	232
	1.2 [1.0]	NPT (internal thread)			V5862A2047	174	174
	1.2 [1.0]	Sweat			V5852A2049	174	174
	1.9 [1.6]	NPT (internal thread)			V5862A2054	174	174
	1.9 [1.6]	Sweat			V5852A2056	174	174
3/4 in.	2.9 [2.5]	NPT (internal thread)	Equal%	Stem Down <sup>2</sup>	V5862A2062	58	58
	2.9 [2.5]	Sweat			V5852A2064	58	58
	4.9 [4.2]	NPT (internal thread)			V5862A2070	58	58
	4.9 [4.2]	Sweat			V5852A2072	58	58
1 in.	5.5 [4.7]	NPT (internal thread)	Linear	Stem Up	V5862A3003		
	7.8 [6.7]				V5862A3011		
	11 [9.4]				V5862A3029		
1-1/4 in.	18 [15.4]				V5862A3037		
1-1/2 in.	25 [21.4]				V5862A3045		



3-way

Valve Size (inches)	Flow Capacity (Cv) <sup>1</sup> / [kvs]	Pipe Connection Type	Flow Characteristic	Valve Closes	Valve O.S. Number			
1/2 in.	0.29 [0.25]	NPT (internal thread)	A-AB Equal%, B-AB Linear	Stem Up	V5863A2004	116	116	
	0.29 [0.25]	Sweat			V5853A2006	116	116	
	0.47 [0.40]	NPT (internal thread)			V5863A2012	116	116	
	0.47 [0.40]	Sweat			V5853A2014	116	116	
	0.74 [0.63]	NPT (internal thread)			V5863A2020	36	36	
	0.74 [0.63]	Sweat			V5853A2022	36	36	
	1.2 [1.0]	NPT (internal thread)			V5863A2038	36	36	
	1.2 [1.0]	Sweat			V5853A2030	36	36	
	1.9 [1.6]	NPT (internal thread)			V5863A2046	34	34	
	1.9 [1.6]	Sweat			V5853A2048	34	34	
	2.9 [2.5]	NPT (internal thread)			V5863A1006	34	34	
	2.9 [2.5]	Sweat			V5853A1008	34	34	
3/4 in.	4.9 [4.2]	NPT (internal thread)	A-AB Equal%, B-AB Linear	Stem Up	V5863A1014	34	34	
	4.9 [4.2]	Sweat			V5853A1016	34	34	
	2.9 [2.5]	NPT (internal thread)			V5863A2053	7.25	7.25	
	2.9 [2.5]	Sweat			V5853A2055	7.25	7.25	
	4.9 [4.2]	NPT (internal thread)			V5863A2061	7.25	7.25	
	4.9 [4.2]	Sweat			V5853A2063	7.25	7.25	
	5.5 [4.7]	NPT (internal thread)			Linear	V5863A3002		
	7.8 [6.7]					V5863A3010		
11 [9.4]	V5863A3028							
1-1/4 in.	18 [15.4]				V5863A3036			
1-1/2 in.	25 [21.4]				V5863A3044			

Notes: Maximum coil-bypass pressure difference is 7 psi when used with electric actuators.

<sup>1</sup> B port Cv is 20% less

<sup>2</sup> Fail safe position for 1/2" and 3/4" 2-way is Normally Open with Mx435 and MP958 spring return actuators. All other valves fail safe closed.

<sup>3</sup> Insert determines Cv for 1/2" and 3/4" bodies. Grouped inserts are interchangeable.

Our line of Cartridge Globe Valves (V58 family).  
 The perfect valve to control hot and/or chilled water  
 systems in electric/electronic temperature control systems.

## Electrically and Pneumatically-Actuated Cartridge Globe Valves

Electric		Modulating				Pneumatic		
M6410A3017	M6435A3000	M7410F1000	M7435F1001	M7410F3006	M7435F3007	MP958A1009	MP958A1017	MP958A1025
24 Vac	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac			
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz			
67.5 lb [300 N]	90 lb [400 N]	40.5 lb. [180 N]	40.5 lb. [180 N]	67.5 lb [300 N]	90 lb [400 N]			
SPDT	SPDT							
•	•							
		•	•	•	•			
		•	•	•	•			
						2-5 psi	3-10 psi	8-11 psi
Stay in Place	Stem up, 10 sec.	Stay in Place	Stem up, 10 sec.	Stay in Place	Stem up, 10 sec.			
By wiring change	By wiring change	By DIP switch	By DIP switch	By DIP switch	By DIP switch			
125 seconds	50 Seconds	125 seconds	50 Seconds	125 seconds	50 Seconds			
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•			
•	•	•	•	•	•			
•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•
<b>2-way Valves Close-Off</b>								
		232	232			232	232	232
		232	232			232	232	232
		232	232			232	232	232
		232	232			232	232	232
		232	232			232	232	232
		232	232			232	232	232
		232	232			232	232	232
		174	174			174	174	174
		174	174			174	174	174
		174	174			174	174	174
		174	174			174	174	174
		58	58			58	58	58
		58	58			58	58	58
		58	58			58	58	58
		58	58			58	58	58
232	232			232	232			
232	232			232	232			
232	232			232	232			
174	174			174	174			
145	145			145	145			
<b>3-way Valves Close-Off</b>								
		116	116			116	116	116
		116	116			116	116	116
		116	116			116	116	116
		116	116			116	116	116
		36	36			36	36	36
		36	36			36	36	36
		36	36			36	36	36
		36	36			36	36	36
		34	34			34	34	34
		34	34			34	34	34
		34	34					
		34	34					
		34	34					
		34	34					
		7.25	7.25			7.25	7.25	7.25
		7.25	7.25			7.25	7.25	7.25
		7.25	7.25			7.25	7.25	7.25
		7.25	7.25			7.25	7.25	7.25
232	232			232	232			
232	232			232	232			
232	232			232	232			
174	174			174	174			
145	145			145	145			

Replacement Insert<sup>3</sup>

Replacement Insert<sup>3</sup>

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