

# Cartridge Globe Valves

## V5852; V5862 Two-way Cartridge Globe Valves



Two-way Cartridge Globe Valves control hot and/or chilled water for VAV terminal units, fan coil units, small reheaters and recoolers in electric/electronic temperature control systems. Used with the M6410 3-position floating Non-Spring Return Valve Actuator and the M7410 selectable 0 to 10 Vdc or 2 to 10 Vdc Non-Spring Return Actuator. The 1/2" and 3/4" valves are compatible with the M6435 floating Spring Return Actuator, the M7435 selectable 0 to 10 Vdc or 2 to 10 Vdc Spring Return Actuator, and the MP958 Pneumatic Actuator. Larger valves (1" through 1-1/2") are pressure balanced, which results in higher close-off pressures.

- Long stroke allows wider range of control
- Soft valve seat provides low leakage rate
- Inserts for 1/2 in. and 3/4 in. valves are changeable without draining valve when used with an insert replacement tool
- Brass body and Stainless Steel stem
- Threaded plastic cover/manual handle allows manual operation
- Easily installed in areas where space is limited

**Valve Type:** Cartridge Globe Valve

**Body Pattern:** Two-way

**Controlled Medium:** Chilled or hot water with up to 50% Glycol; not for use with steam or fuels

**Leakage Rating:**

1/2 in. and 3/4 in. valves: ANSI Class IV (0.01% of Cv maximum)

1 in., 1 1/4 in., 1 1/2 in. valves: ANSI Class III (less than 0.02% of Cv)

**Maximum Safe Operating Pressure:** 235 psi (1620 kPa)

**Ambient Temperature Range:** 36 F to 230 F (2 C to 110 C)

**Stem Travel:** 1/4 in. (6.4 mm)

**Actuation:** Must be purchased separately

**Materials**

**(Body):** Brass

**(Stem):** Stainless Steel

**(Seat):** Brass

**(Cartridge):** Brass

**(Plug/Ball/Disc):** Brass

### Replacement Parts:

**0902812**-Replacement Insert for 1/2" V5852/V5862, 0.19 Cv  
Interchangeable with 0902809 or 090210

**0902814**-Replacement Insert for 3/4" V5852/V5862, 2.9 Cv  
Interchangeable with 0902815

**0902815**-Replacement Insert for 3/4" V5852/V5862, 4.9 Cv  
Interchangeable with 0902814

**0903827**-Replacement Packing for 1" V5862/63

**0903828**-Replacement Packing for 1-1/4" V5862/63

**0903829**-Replacement Packing for 1-1/2" V5862/63

### Accessories:

**0902807**-Replacement Insert for 1/2" V5852/V5862, 1.9Cv  
Interchangeable with 0902808

**0902808**-Replacement Insert for 1/2" V5852/V5862, 1.2 Cv  
Interchangeable with 0902807

**0902809**-Replacement Insert for 1/2" V5852/V5862, 0.74 Cv  
Interchangeable with 0902810 or 090212

**0902810**-Replacement Insert for 1/2" V5852/V5862, 0.47 Cv  
Interchangeable with 0902809 or 090212

**0903827**-Replacement Packing for 1" V5862/63

Product Number	Valve Size		Flow Capacity		Flow Characteristic	Connec-tion Type	Valve Action	Maximum Close-off Pressure		Used With
	(inch)	DN	(Cv)	(Kv)				(psi)	(kPa)	
V5852A2007	1/2 in.	DN15	0.19 Cv	0.16 kvs	Equal Percentage	Sweat (Female)	Stem down to close	232 psi	1600 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2015	1/2 in.	DN15	0.29 Cv	0.25 kvs	Equal Percentage	Sweat (Female)	Stem down to close	232 psi	1600 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5852A2023	1/2 in.	DN15	0.47 Cv	0.41 kvs	Equal Percentage	Sweat (Female)	Stem down to close	232 psi	1600 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2031	1/2 in.	DN15	0.7 Cv	0.6 kvs	Equal Percentage	Sweat (Female)	Stem down to close	232 psi	1600 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5852A2049	1/2 in.	DN15	1.2 Cv	1.0 kvs	Equal Percentage	Sweat (Female)	Stem down to close	174 psi	1200 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2056	1/2 in.	DN15	1.9 Cv	1.6 kvs	Equal Percentage	Sweat (Female)	Stem down to close	174 psi	1200 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5852A2064	3/4 in.	DN20	2.9 Cv	2.5 kvs	Equal Percentage	Sweat (Female)	Stem down to close	58 psi	400 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5852A2072	3/4 in.	DN20	4.9 Cv	4.2 kvs	Equal Percentage	Sweat (Female)	Stem down to close	58 psi	400 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5862A2005	1/2 in.	DN15	0.19 Cv	0.16 kvs	Equal Percentage	Female NPT	Stem down to close	232 psi	1600 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5862A2013	1/2 in.	DN15	0.29 Cv	0.25 kvs	Equal Percentage	Female NPT	Stem down to close	232 psi	1600 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958