

V5853; V5863 Three-way Cartridge Globe Valves



Three-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 also 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.

- 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: Three-way
Connection Type: Sweat (Female)
Controlled Medium: Chilled or hot water with up to 50% Glycol; not for use with steam or fuels
Leakage Rating:
 ANSI Class IV (0.01% of Cv maximum)
 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:

- 0902821**-Replacement Insert for 1/2" V5853/V5863, 0.29 Cv
 Interchangeable with 0902822 or 0902823 or 0902824
0902822-Replacement Insert for 1/2" V5853/V5863, 0.47 Cv
 Interchangeable with 0902821 or 0902823 or 0902824
0902823-Replacement Insert for 1/2" V5853/V5863, 0.74 Cv
 Interchangeable with 0902821 or 0902822 or 0902824
0902824-Replacement Insert for 1/2" V5853/V5863, 1.2 Cv
 Interchangeable with 0902821 or 0902822 or 0902823
0902825-Replacement Insert for 1/2" V5853/V5863, 1.9 Cv
 Interchangeable with 0902827
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

Product Number	Valve Size		Flow Capacity		Flow Characteristic	Con-nection Type	Valve Action	Maximum Close-off Pressure		Used With
	(inch)	DN	(Cv)	(Kv)				(psi)	(kPa)	
V5853A1008	3/4 in.	DN20	2.9 Cv	2.5 kvs	Equal Percentage	Sweat (Female)	Stem up to close	34 psi	234 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001
V5853A1016	3/4 in.	DN20	4.9 Cv	4.2 kvs	Equal Percentage	Sweat (Female)	Stem up to close	34 psi	234 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001
V5853A2006	1/2 in.	DN15	0.29 Cv	0.25 kvs	Equal Percentage	Sweat (Female)	Stem up to close	116 psi	800 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2014	1/2 in.	DN15	0.47 Cv	0.41 kvs	Equal Percentage	Sweat (Female)	Stem up to close	116 psi	800 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5853A2022	1/2 in.	DN15	0.74 Cv	0.64 kvs	Equal Percentage	Sweat (Female)	Stem up to close	36 psi	248 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2030	1/2 in.	DN15	1.2 Cv	1.0 kvs	Equal Percentage	Sweat (Female)	Stem up to close	36 psi	248 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5853A2048	1/2 in.	DN15	1.9 Cv	1.6 kvs	Equal Percentage	Sweat (Female)	Stem up to close	34 psi	234 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5853A2055	3/4 in.	DN20	2.9 Cv	2.5 kvs	Equal Percentage	Sweat (Female)	Stem up to close	7.25 psi	50 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5853A2063	3/4 in.	DN20	4.9 Cv	4.2 kvs	Equal Percentage	Sweat (Female)	Stem up to close	7.25 psi	50 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A1006	3/4 in.	DN20	2.9 Cv	2.5 kvs	Equal Percentage	Female NPT	Stem up to close	34 psi	234 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001
V5863A1014	3/4 in.	DN20	4.9 Cv	4.2 kvs	Equal Percentage	Female NPT	Stem up to close	34 psi	234 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001

Cartridge Globe Valves

Product Number	Valve Size		Flow Capacity		Flow Characteristic	Connection Type	Valve Action	Maximum Close-off Pressure		Used With
	(inch)	DN	(Cv)	(Kv)				(psi)	(kPa)	
V5863A2004	1/2 in.	DN15	0.29 Cv	0.25 kvs	Equal Percentage	Female NPT	Stem up to close	116 psi	800 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5863A2012	1/2 in.	DN15	0.47 Cv	0.41 kvs	Equal Percentage	Female NPT	Stem up to close	116 psi	800 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2020	1/2 in.	DN15	0.74 Cv	0.64 kvs	Equal Percentage	Female NPT	Stem up to close	36 psi	248 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5863A2038	1/2 in.	DN15	1.2 Cv	1.0 kvs	Equal Percentage	Female NPT	Stem up to close	36 psi	248 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2046	1/2 in.	DN15	1.9 Cv	1.6 kvs	Equal Percentage	Female NPT	Stem up to close	34 psi	234 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5863A2053	3/4 in.	DN20	2.9 Cv	2.5 kvs	Equal Percentage	Female NPT	Stem up to close	7.25 psi	50 kPa	M6410A1029; M7410F1000; M6435A1004; M7435F1001; MP958
V5863A2061	3/4 in.	DN20	4.9 Cv	4.2 kvs	Equal Percentage	Female NPT	Stem up to close	7.25 psi	50 kPa	M6410A1029; M6435A1004; M7410F1000; M7435F1001; MP958
V5863A3002	1 in.	DN25	5.5 Cv	4.8 kvs	Linear	Female NPT	Stem up to close port A to AB	232 psi	1600 kPa	M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3010	1 in.	DN25	7.8 Cv	6.7 kvs	Linear	Female NPT	Stem up to close port A to AB	232 psi	1600 kPa	M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3028	1 in.	DN25	11.0 Cv	9.5 kvs	Linear	Female NPT	Stem up to close port A to AB	232 psi	1600 kPa	M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3036	1 1/4 in.	DN32	18 Cv	15.6 kvs	Linear	Female NPT	Stem up to close port A to AB	174 psi	1200 kPa	M6410A3017; M7410F3006; M6435A3000; M7435F3007
V5863A3044	1 1/2 in.	DN40	25 Cv	21.6 kvs	Linear	Female NPT	Stem up to close port A to AB	145 psi	1000 kPa	M6410A3017; M7410F3006; M6435A3000; M7435F3007

Cartridge Globe Valve Accessories

Product Number	Description	Used With
WV108B	Brush Tool for Valve Cleaning 1/2" and 3/4" V5852/V5853/V5862/V5863	V5862; V5853; V5852; V5863
WV108M	Insert Replacement Tool for 1/2" and 3/4" V5852/V5853/V5862/V5863	V5853; V5862; V5852; V5863