2-Way Electric Globe Valve Assemblies

Valve Size (inches)	Cv	Close-off Pressure (psi)	Maximum Allowable DiffPressure (psi)	Actuators - Electric Non-Spring Return 24 Vac			
Stem up, Normally Open				**Actuator Description**	**Manual Override**	**Floating**	**Proportional**
2 1/2"	56	125	35	Forta 337 lbf 	Yes	VU-8213-686-5-12	VU-8213-686-5-12
3"	85	125	35		Yes	VU-8213-686-5-13	VU-8213-686-5-13
4"	145	125	35		Yes	VU-8213-686-5-14	VU-8213-686-5-14
5"	240	125	35		Yes	VU-8213-686-5-15	VU-8213-686-5-15
6"	370	125	35		Yes	VU-8213-686-5-16	VU-8213-686-5-16
6"	370	125	35	SmartX with linkage 300 lb-in 	Yes	VF-8213-516-5-16	VS-8213-516-5-16
Stem up, Normally Closed			**Actuator**		**Manual Override**	**Floating**	**Proportional**
2 1/2"	56	125	35	Forta 337 lbf 	Yes	VU-8213-686-5-12	VU-8213-686-5-12
3"	85	125	35		Yes	VU-8213-686-5-13	VU-8213-686-5-13
4"	145	125	35		Yes	VU-8213-686-5-14	VU-8213-686-5-14
5"	240	125	35		Yes	VU-8213-686-5-15	VU-8213-686-5-15
6"	370	125	35		Yes	VU-8213-686-5-16	VU-8213-686-5-16
6"	370	125	35	SmartX with linkage 300 lb-in 	Yes	VF-8223-516-5-16	VS-8223-516-5-16

2-Way Pneumatic Globe Valve Assemblies

Valve Size (inches)	Cv	Close-off Pressure (psi)	Maximum Allowable DiffPressure (psi)	Actuators - Pneumatic Spring Return 24 Vac		
Stem up, Normally Open with positive positioner				**Actuator Description**	**Floating**	**Proportional**
2 1/2"	56	125	35	50 sq. ft. area with linkage 1" nominal stroke 	VK-8213-602-5-12	VK4-8213-602-5-12
3"	85	125	35		VK-8213-602-5-13	VK4-8213-602-5-13
4"	145	125	35		VK-8213-602-5-14	VK4-8213-602-5-14
5"	240	125	35		VK-8213-602-5-15	VK4-8213-602-5-15
6"	370	125	35	50 sq. ft. area with linkage 1-3/4" nominal stroke 	Not available	VK4-8213-652-5-16
Stem up, Normally Closed with positive positioner			**Actuator**		**Floating**	**Proportional**
2 1/2"	56	125	35	50 sq. ft. area with linkage 1" nominal stroke 	VK-8223-602-5-12	VK4-8223-602-5-12
3"	85	125	35		VK-8223-602-5-13	VK4-8223-602-5-13
4"	145	125	35		VK-8223-602-5-14	VK4-8223-602-5-14
5"	240	125	35		VK-8223-602-5-15	VK4-8223-602-5-15
6"	370	125	35	50 sq. ft. area with linkage 1-3/4" nominal stroke 	Not available	VK4-8223-652-5-16

Flanged Globe Valves

VB-8000



North America (USA): +1 888 444 1311
Europe, Middle East & Africa (Sweden): +46 10 478 2000
Asia Pacific (Singapore): +65 6484 7877
product.support@schneider-electric.com
www.schneider-electric.com

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2-Way Electric Globe Valve Assemblies

Valve Size (inches)	Cv	Close-off Pressure (psi)	Maximum Allowable Diff Pressure (psi)	Actuators - Electric Spring Return 24 Vac				
Stem up, Normally Open				**Actuator Description**	**Manual Override**	**2-position**	**Floating**	**Proportional**
2 1/2"	56	125	35	SmartX Linear Direct Coupled (no separate linkage) 220 lbf min.	Yes	VA-8213-596-5-12	VF-8213-596-5-12	VS-8213-596-5-12
3"	85	125	35		Yes	VA-8213-596-5-13	VF-8213-596-5-13	VS-8213-596-5-13
4"	145	125	35		Yes	VA-8213-596-5-14	VF-8213-596-5-14	VS-8213-596-5-14
5"	240	125	35		Yes	VA-8213-596-5-15	VF-8213-596-5-15	VS-8213-596-5-15
6"	370				Yes	Not available	Not available	Not available
6"	370	125	22	SmartX with linkage 133 lb-in	Yes	VA-8213-556-5-16	VF-8213-556-5-16	VS-8213-556-5-16
2 1/2"	56	125	35	SmartX with linkage 150 lb-in NEMA 4	No	VA-8213-576-5-12	VF-8213-576-5-12	VS-8213-576-5-12
3"	85	125	35		No	VA-8213-576-5-13	VF-8213-576-5-13	VS-8213-576-5-13
4"	145	125	35		No	VA-8213-576-5-14	VF-8213-576-5-14	VS-8213-576-5-14
5"	240	125	35		No	VA-8213-576-5-15	VF-8213-576-5-15	VS-8213-576-5-15
6"	370	125	25		No	VA-8213-576-5-16	VF-8213-576-5-16	VS-8213-576-5-16
Stem up, Normally Closed				**Actuator Description**	**Manual Override**	**2-position**	**Floating**	**Proportional**
2 1/2"	56	125	35	SmartX Linear Direct Coupled (no separate linkage) 220 lbf min.	Yes	VA-8223-596-5-12	VF-8223-596-5-12	VS-8223-596-5-12
3"	85	125	35		Yes	VA-8223-596-5-13	VF-8223-596-5-13	VS-8223-596-5-13
4"	145	125	35		Yes	VA-8223-596-5-14	VF-8223-596-5-14	VS-8223-596-5-14
5"	240	125	35		Yes	VA-8223-596-5-15	VF-8223-596-5-15	VS-8223-596-5-15
6"	370				Yes	Not available	Not available	Not available
6"	370	125	22	SmartX with linkage 133 lb-in	Yes	VA-8223-556-5-16	VF-8223-556-5-16	VS-8223-556-5-16
2 1/2"	56	125	35	SmartX with linkage 150 lb-in NEMA 4	No	VA-8223-576-5-12	VF-8223-576-5-12	VS-8223-576-5-12
3"	85	125	35		No	VA-8223-576-5-13	VF-8223-576-5-13	VS-8223-576-5-13
4"	145	125	35		No	VA-8223-576-5-14	VF-8223-576-5-14	VS-8223-576-5-14
5"	240	125	35		No	VA-8223-576-5-15	VF-8223-576-5-15	VS-8223-576-5-15
6"	370	125	25		No	VA-8223-576-5-16	VF-8223-576-5-16	VS-8223-576-5-16

3-Way Electric Globe Valve Assemblies

Valve Size (inches)	Cv	Close-off Pressure (psi)	Maximum Allowable DiffPressure (psi)	Actuators - Electric Spring Return 24 Vac				
Mixing or Diverting				**Actuator Description**	**Manual Override**	**2-position**	**Floating**	**Proportional**
2 1/2"	Mix: 85 Divert: A-port: 95 B-port: 115	35	35	SmartX Linear Direct Coupled (no separate linkage) 220 lbf min.	Yes	VA-8303-596-5-12	VF-8303-596-5-12	VS-8303-596-5-12
3"	Mix: 110 Divert: A-port: 110 B-port: 120	35	35		Yes	VA-8303-596-5-13	VF-8303-596-5-13	VS-8303-596-5-13
4"	190	35	35		Yes	VA-8303-596-5-14	VF-8303-596-5-14	VS-8303-596-5-14
5"	290	35	35		Yes	VA-8303-596-5-15	VF-8303-596-5-15	VS-8303-596-5-15
6"	500					Not available	Not available	Not available
6"	500	35	Mix: 15 Divert: 11	SmartX with linkage 133 lb-in	Yes	VA-8303-556-5-16	VF-8303-556-5-16	VS-8303-556-5-16
2 1/2"	Mix: 85 Diverting: A-port: 95 B-port: 115	35	35	SmartX with linkage 150 lb-in NEMA 4	No	VA-8303-576-5-12	VF-8303-576-5-12	VS-8303-576-5-12
3"	Mix: 110 Diverting: A-port: 110 B-port: 120	35	35		No	VA-8303-576-5-13	VF-8303-576-5-13	VS-8303-576-5-13
4"	190	35	35		No	VA-8303-576-5-14	VF-8303-576-5-14	VS-8303-576-5-14
5"	290	35	Mix: 35 Divert: 31		No	VA-8303-576-5-15	VF-8303-576-5-15	VS-8303-576-5-15
6"	500	35	Mix: 16 Divert: 12		No	VA-8303-576-5-16	VF-8303-576-5-16	VS-8303-576-5-16

3-Way Electric Globe Valve Assemblies

Valve Size (inches)	Cv	Close-off Pressure (psi)	Maximum Allowable DiffPressure (psi)	Actuators - Electric Non-Spring Return 24 Vac			
Mixing or Diverting				**Actuator Description**	**Manual Override**	**Floating**	**Proportional**
2 1/2"	Mix: 85 Diverting: A-port: 95 B-port: 115	35	35	Forta 337 lbf	Yes	VU-8303-686-5-12	VU-8303-686-5-12
3"	Mix: 110 Diverting: A-port: 110 B-port: 120	35	35		Yes	VU-8303-686-5-13	VU-8303-686-5-13
4"	190	35	35		Yes	VU-8303-686-5-14	VU-8303-686-5-14
5"	290	35	35		Yes	VU-8303-686-5-15	VU-8303-686-5-15
6"	500	35	35		Yes	VU-8303-686-5-16	VU-8303-686-5-16
6"	500	35	Mix: 32 Divert: 28	SmartX with linkage 300 lb-in	Yes	VF-8303-516-5-16	VS-8303-516-5-16

3-Way Pneumatic Globe Valve Assemblies

Valve Size (inches)	Cv	Close-off Pressure (psi)	Maximum Allowable DiffPressure (psi)	Actuators - Pneumatic Spring Return 24 Vac		
Mixing or Diverting				**Actuator Description**	**Without Positive Positioner**	**With Positive Positioner**
2 1/2"	Mix: 85 Diverting: A-port: 95 B-port: 115	35	35	50 sq. ft. area with linkage 1" nominal stroke	VK-8303-602-5-12	VK4-8303-602-5-12
3"	Mix: 110 Diverting: A-port: 110 B-port: 120	35	35		VK-8303-602-5-13	VK4-8303-602-5-13
4"	190	35	35		VK-8303-602-5-14	VK4-8303-602-5-14
5"	290	35	35		VK-8303-602-5-15	VK4-8303-602-5-15
6"	370	35	35	50 sq. ft. area with linkage 1-3/4" nominal stroke	Not available	VK4-8303-652-5-16

2-Way Globe Valve Bodies

Valve Size (inches)	Cv	Part Number	Valve Size (inches)	Cv	Part Number
Stem up, Normally Open			**Stem up, Normally Closed**		
2 1/2"	56	VB-8213-0-5-12	2 1/2"	56	VB-8223-0-5-12
3"	85	VB-8213-0-5-13	3"	85	VB-8223-0-5-13
4"	145	VB-8213-0-5-14	4"	145	VB-8223-0-5-14
5"	240	VB-8213-0-5-15	5"	240	VB-8223-0-5-15
6"	370	VB-8213-0-5-16	6"	370	VB-8223-0-5-16

3-Way Globe Valve Bodies

Valve Size (inches)	Mixing Cv	Diverting Cv	Part Number
Mixing or Diverting			
2 1/2"	80	A-port: 95 B-port: 115	VB-8303-0-5-12
3"	110	A-port: 110 B-port: 120	VB-8303-0-5-13
4"	190	190	VB-8303-0-5-14
5"	290	290	VB-8303-0-5-15
6"	500	500	VB-8303-0-5-16

Related Literature

F-27193 General Instructions VB-8213 Series 2-1/2" to 6" 125 PSI Flanged Step Up Open Valves
F-27194 General Instructions VB-8223 Series 2-1/2" to 6" 125 PSI Flanged Step Up Closed Valves
F-27197 General Instructions VB-8303 Series 2-1/2" to 6" 125 PSI Flanged Mixing/Diverting Valves
F-27199 Selection Guide VX-8XXX-XXX-S-X Series, VB 8XX3 Series
F-27368-1 Sales Brochure, Flanged Globe Valve with Balanced Plug Technology

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