

VGL*SM* 2/3way GLOBE VALVES MODULATING ELECTRIC ACTUATOR 120°C

2way and 3-way globe valves with modulating electric actuator. Suitable for cold and warm water systems. Standard temperature range +5...+120°C.

Body valve model:

- VGL2B*** PN16 2-way valve. RG5 red casting brass housing and seat, stainless steel closing element and stem, EPDM o-ring seal stem. External thread according to ISO 228 pipe connections. Fluid temperature: +5...120°C (-10°C with optional stem heating)
- Flow characteristic: equal percentage (VDI/VDE 2173) $n(gl) = 3$, optimised in the opening range
Leakage rate max. 0.05% of the kvs value
- VGL3B*** PN16 3-way valve. Features as model 2-way
- Flow characteristic: A - AB: equal percentage (VDI/VDE 2173) $n(gl) = 3$, optimised in the opening range,
Bypass B - AB: linear (VDI/VDE 2173)
Leakage rate: A – AB= III (DIN EN 1349 e DIN EN 60534-4)
Bypass B – AB: max. 1% of the kvs value
- VGL2N*** PN16 2-way valve. EN-JL1040 (GG25), with protective paint housing, GG25 seat, stainless steel closing element and stem, EPDM o-ring seal stem. Flanged ISO 7005-2 PN16. Fluid temperature fluido: +5...120°C (-10°C with optional stem heating)
- Flow characteristic: equal percentage (VDI/VDE 2173) $n(gl) = 3$, optimised in the opening range
Leakage rate max. 0.05% of the kvs value
- VGL3N*** PN16 3-way valve. Features as model 3-way VGL2N*
- Flow characteristic: A - AB: equal percentage (VDI/VDE 2173) $n(gl) = 3$, optimised in the opening range,
Bypass B - AB: linear (VDI/VDE 2173)
Leakage rate: Control path A - AB: max. 0.05% of the kvs value,
Bypass B - AB: max. 1% of the kvs value



DESCRIPTIONS

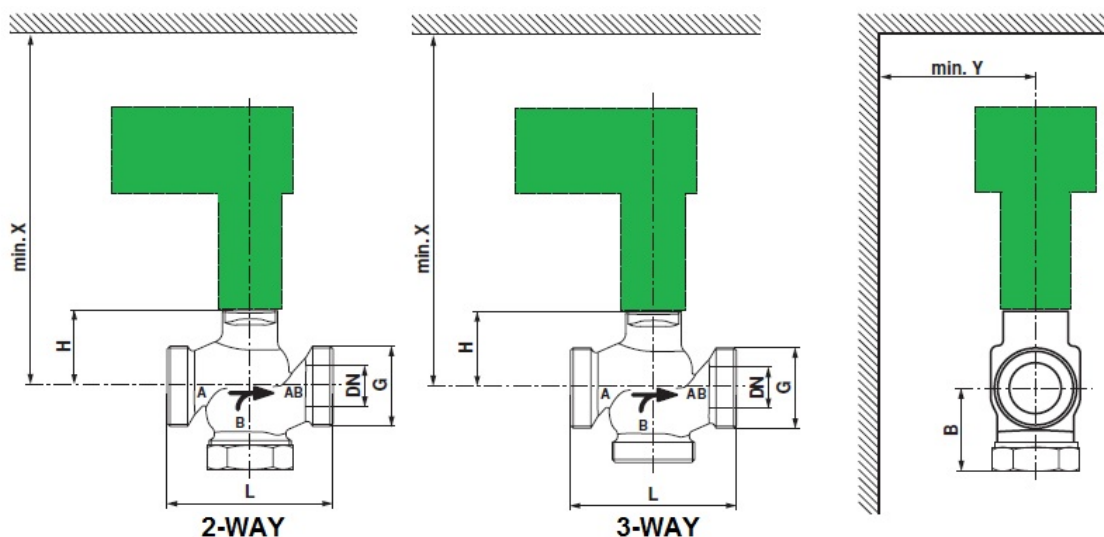
DN 15...50 PN16 Valves						Modulating Electric Actuators		
DN	Kvs m3/h	Body valve codes				SMLV24A $\Delta P_s(dP_{max})$ kPa	SMNV24A $\Delta P_s(dP_{max})$ kPa	SMSV24A $\Delta P_s(dP_{max})$ kPa
		2 WAY	3 WAY	2 WAY	3 WAY			
DN15	0,63	VGL2B411	VGL3B511	VGL2N611	VGL3N711	1300 (400)	1600 (400)	1600 (400)
DN15	1	VGL2B412	VGL3B512	VGL2N612	VGL3N712			
DN15	1,6	VGL2B413	VGL3B513	VGL2N613	VGL3N713			
DN15	2,5	VGL2B414	VGL3B514	VGL2N614	VGL3N714			
DN15	4	VGL2B415	VGL3B515	VGL2N615	VGL3N715			
DN20	6,3	VGL2B420	VGL3B520	VGL2N620	VGL3N720	900 (400)	1600 (400)	1600 (400)
DN25	10	VGL2B425	VGL3B525	VGL2N625	VGL3N725	500 (400)	1300 (400)	1600 (400)
DN32	16	VGL2B432	VGL3B532	VGL2N632	VGL3N732	350 (350)	1000 (400)	1600 (400)
DN40	25	VGL2B440	VGL3B540	VGL2N640	VGL3N740	150 (150)	500 (400)	900 (400)
DN50	40	VGL2B450	VGL3B550	VGL2N650	VGL3N750	70 (70)	300 (300)	550 (400)
DN 65...150 PN16 Valves		SMEV24A	SMRV24A					
DN		65	80	100	125	150		
2 way - flanged		VGL2N665	VGL2N680	VGL2N6100	-	-		
3 way - flanged		VGL3N765	VGL3N780	VGL3N7100	VGL3N7125	VGL3N7150		
KVs m3/h		63	100	145	220	320		
ΔP_s (Close valve) KPA		550	700	450	290	190		
Δp_{max} (Open valve) KPA		400	400	400	290	190		



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DIMENSIONS



2way and 3-way thread valves dimensions								
DN mm. G			2 way	3 way			2 way	3 way
	L	H	B mm	B mm	X	Y	Body valve approx weight kg.	
15- G1 1/8"	80	46	65	55	290	100	1.2	1.1
20- G1 1/4"	90	46	65	55	290	100	1.2	1.2
25- G1 1/2"	110	52	66	55	300	100	1.3	1.4
32- G 2"	120	56	67	55	300	100	1.6	2
40- G2 1/4"	130	65	72	60	310	100	2.2	2.5
50- G2 3/4"	150	65	75	65	310	100	2.8	3.6

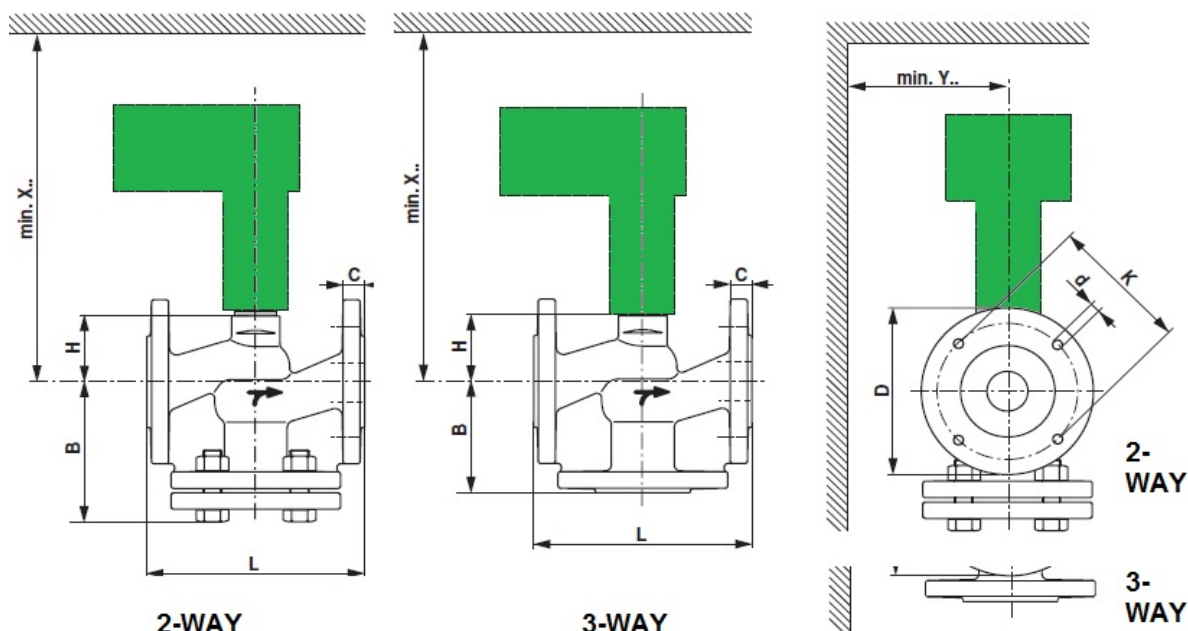
- 1) Thread globe valve
- 2) Electronic control
- 3) Temperature probe (or pressure, level, flow, etc..)



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DIMENSIONS



2-way and 3-way flanged valves dimensions (mm) - DN 15...50 PN16

DN mm.			2 way		3 way			
	LxHxD	KxC	B mm	Body valve approx weight kg.	B	Body valve approx weight kg.	X	Y
15	130x46x95	65x14	89	4.2	65	2.6	290	100
20	150x46x105	75x16	96	5.3	70	4	290	100
25	160x52x115	85x16	101	6.8	75	5	300	100
32	180x56x140	100x18	123	9.9	95	7.5	310	100
40	200x64x150	110x18	128	12.3	100	9.5	310	100
50	230x64x165	125x20	130	16.2	100	12.4	310	100

2-way and 3-way flanged valves dimensions (mm) - DN 65...150 PN16

DN mm.			2 way		3 way			
	LxHxD	KxC	B mm	Body valve approx weight kg.	B	Body valve approx weight kg.	X	Y
65	290x100x185	145x20	150	24	120	19.2	450	150
80	310x110x200	160x22	162	30	130	24	360	150
100	350x125x220	180x24	182	41	150	34	480	150
125	400x281x250	210x26	-	-	200	57	640	150
150	480x343x285	240x26	-	-	210	88	710	150



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MODULATING ELECTRIC ACTUATORS TECHNICAL SPECIFICATIONS

Actuators	SMLV24A	SMNV24A	SMSV24A	SMEV24A	SMRV24A
Power supply	24 V ac/dc				
Control Modulating	2/10 Vdc (4-20 mA)				
Nominal stroke mm	15	20	20	40	40
Actuating force motor	500 N	1000 N	1500 N	2500 N	4500 N
Actuating time	150	150	150	150	150
Protection class	IP 54	IP 54	IP 54	IP 54	IP 54
Power consumption	5,5W-10VA	3W-5VA	3W-5VA	3W-5VA	6W-10VA
Weight Kg.	1,8	1,5	1,5	1,5	2,9

OPTIONS

Actuating time 35 sec

X	X	X	X	-
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On request: Emergency setting position function

Datasheet 12_047en



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