

LINEAR MOTORIZED VALVES

CONTROL VALVE PN16 SERIES VLA121/VLA221 AND VLA131

ESBE control valves series VLA121/VLA221 and VLA131 are 2-way and 3-way internal threaded valves for PN16, DN 15-50.



Internal thread PN16 Internal thread PN16, pressure-balanced plug Internal thread PN16

MEDIA

These valves can handle the following types of media:

- Hot and cold water.
 - Water with antifreeze additives such as glycol.
- If the valve is used for media at temperatures below 0°C (32°F), it should be equipped with a stem heater in order to prevent ice formation on the valve stem.

OPTION

Adaptor kit _____ Siemens SQX, Art. No. 2600 07 00

CONTROL VALVE DESIGNED FOR

- Heating
- Comfort Cooling
- Potable water
- Floor heating
- Solar heating
- Ventilation
- Zone
- District Hot Water
- District Heating
- District Cooling

SUITABLE ACTUATORS

The control valve series VLA121/VLA221 and VLA131 may most easily be fitted with ESBE actuators:

- Series ALA200
- Series ALB140
- Series ALD100
- Series ALD200

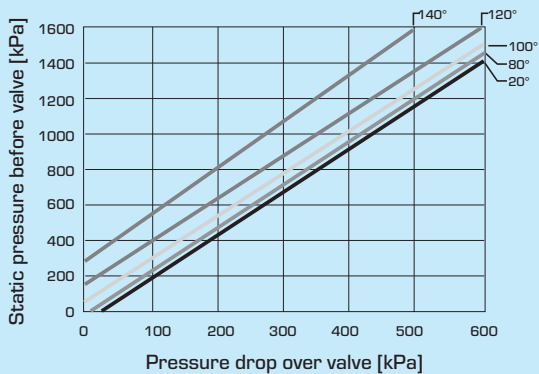
TECHNICAL DATA

Type: _____ 2- and 3-way plug valve
 Pressure class: _____ PN 16
 Flow characteristic A-AB: _____ EGM
 Flow characteristic B-AB: _____ Complementary
 Stroke: _____ 20 mm
 Rangeability Kv/Kv^{min}: _____ see table
 Leakrate A-AB: _____ Tight sealing
 Leakrate B-AB: _____ Tight sealing
 ΔP_{max}: _____ see tables pages 170-176
 Media temperature: _____ max. +130°C
 _____ min. -20°C
 Connection: _____ Internal thread, EN 10226-1

Material

Body: _____ Nodular iron EN-JS 1030
 Stem: _____ Stainless steel SS 2346
 Plug: _____ Brass CW602N
 Seat: _____ Nodular iron EN-JS 1030
 Blind plug: _____ Brass CW602N
 Seat seal: _____ EPDM
 Packing box seal: _____ PTFE/EPDM

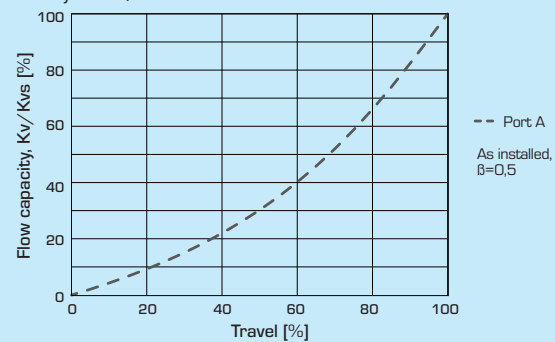
PED 97/23/EC, article 3.3



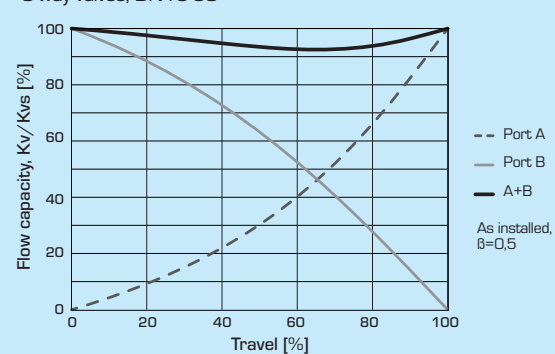
Pressure drop limit where cavitation might occur. Is dependent of valve inlet pressure and temperature of water.

VALVE CHARACTERISTICS

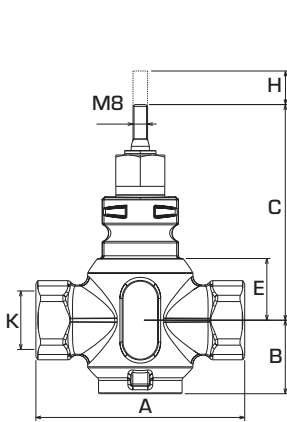
2-way valves, DN15-50



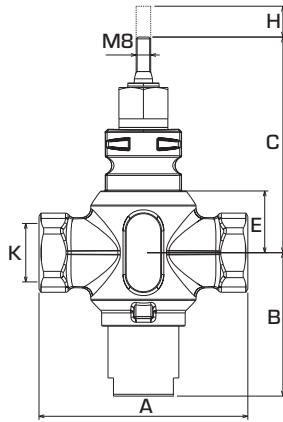
3-way valves, DN15-50



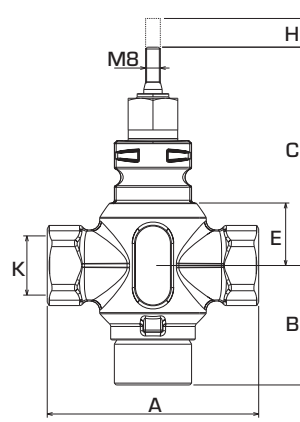
CONTROL VALVE PN16 SERIES VLA121/VLA221 AND VLA131



VLA121



VLA221



VLA131

2-WAY CONTROL VALVE SERIES VLA121

Art. No.	Reference	DN	Kvs *	A	B	C	E	H	K	Rangeability Kv/Kv ^{min}	Weight [kg]
2115 01 00	VLA121	15	1.6	85	38	108	24	20	Rp 1/2"	>50	1.0
2115 02 00			2.5								
2115 03 00			4								
2115 04 00	VLA121	20	6.3	100	40	115	30	20	Rp 3/4"	>50	1.2
2115 05 00	VLA121	25	10	115	40	119	34	20	Rp 1"	>50	1.3
2115 06 00	VLA121	32	16	130	41	120	35	20	Rp 1 1/4"	>50	1.8
2115 07 00	VLA121	40	25	150	50	128	42	20	Rp 1 1/2"	>50	2.7
2115 08 00	VLA121	50	38	180	59	138	53	20	Rp 2"	>50	4.2

2-WAY CONTROL VALVE SERIES VLA221 WITH PRESSURE BALANCED PLUG

Art. No.	Reference	DN	Kvs *	A	B	C	E	H	K	Rangeability Kv/Kv ^{min}	Weight [kg]
2115 17 00	VLA221	25	10	115	79	119	34	20	Rp 1"	>50	1.7
2115 18 00	VLA221	32	16	130	70	120	35	20	Rp 1 1/4"	>50	2.2
2115 19 00	VLA221	40	25	150	74	128	42	20	Rp 1 1/2"	>50	3.1
2115 20 00	VLA221	50	38	180	84	138	53	20	Rp 2"	>50	4.5

3-WAY CONTROL VALVES SERIES VLA131

Art. No.	Reference	DN	Kvs *	A	B	C	E	H	K	Rangeability Kv/Kv ^{min}	Weight [kg]
2115 09 00	VLA131	15	1.6	85	58	108	24	20	Rp 1/2"	>50	1.1
2115 10 00			2.5								
2115 11 00			4								
2115 12 00	VLA131	20	6.3	100	61	115	30	20	Rp 3/4"	>50	1.3
2115 13 00	VLA131	25	10	115	65	119	34	20	Rp 1"	>50	1.5
2115 14 00	VLA131	32	16	130	70	120	35	20	Rp 1 1/4"	>50	2.1
2115 15 00	VLA131	40	25	150	74	128	42	20	Rp 1 1/2"	>50	3.0
2115 16 00	VLA131	50	38	180	90	138	53	20	Rp 2"	>50	4.7

* Kvs-value in m³/h at a pressure drop of 1 bar.