

Control Valves

Series VL10

DESCRIPTION

The VL10 single seated control valves are equipped of two-way body with in-line straight connections. The VL10 valves has been designed to assure an accurate control in any process condition. Their wide application ranges allows to use the VL10 with the most common process fluids such as water, superheated water, steam, air gas and other fluids.

DESIGN FEATURES

From DN15 to DN100
 Tight shutoff : leakage Class VI
 CEI EN 60534-6-1 clamp Std (ex.IEC534)
 V-Ring double packing

STD BODY & TRIM MATERIALS COMBINATION

Valve Body :
 Spheroidal graphite cast iron: EN-GJS-400-18 (EN-JS1025)
 Bonnet: ASTM A105
 Trim: ASTM A213 Type 304

PARTS

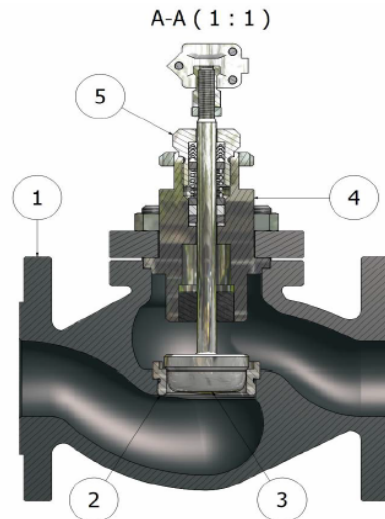
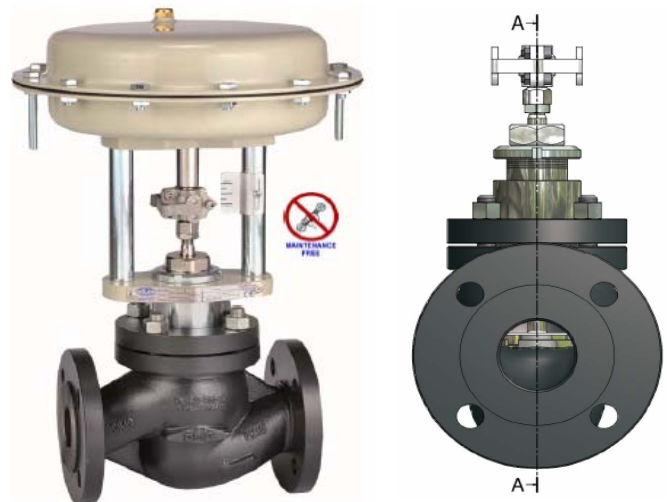
- 1- Body Valve
- 3- Soft Seal Plug
- 2- Seat Ring
- 4- Bonnet
- 5- Packing

VALVE BODY CHARACTERISTICS

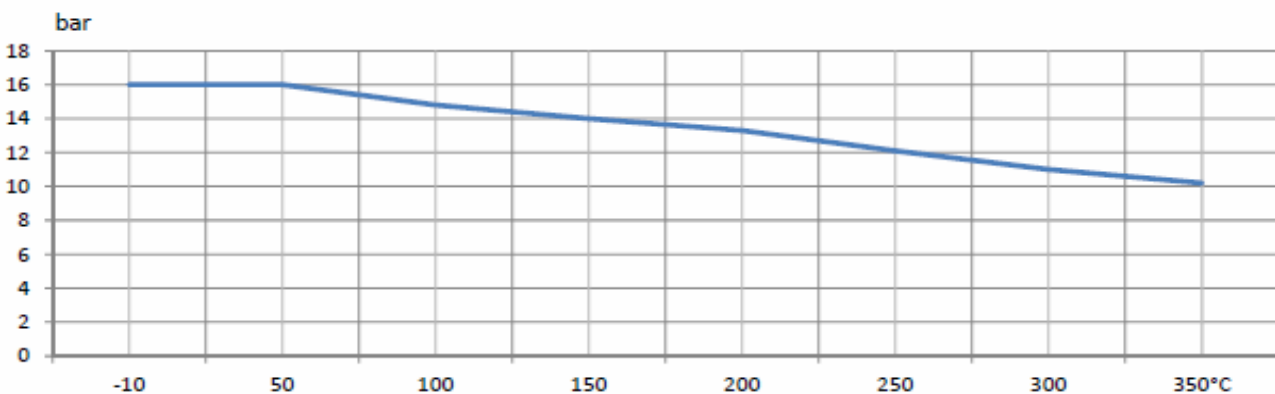
Style	Top Entry, single seated, globe valve
SIZES	from DN15 to DN100
PRESSURE RATING	PN16
BODY FACE TO FACE	In accordance with EN 558-1
DIMENSIONS	
FLANGES CONNECTIONS	EN 1092-2

STD. ANTICORROSIVE TREATMENTS

Valve Body	<ul style="list-style-type: none"> • Manganese Phosphating • ASTM F1137 • Fund bicomponent anticorrosive acrylic at high resistance • Finish with bicomponent aliphatic acrylic enamel RAL 7021
Bonnet	<ul style="list-style-type: none"> • Electrolytic zinc coatings • Fe/Zn 8 c1A UNI ISO 4520



Temperature Application Limits
 -10÷350°C



CONTROL PNEUMATIC ACTUATOR

MAXIMUM ADMISSIBLE PRESSURE DROPS IN BAR (Fluid Open)

The pressure drop values		CONTROL SIGNAL (psi)	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
AL23	3÷15		21	18	12	8	4	3	-	-	-
	6÷18		26	22	17	10	5	4	-	-	-
	6÷30		60	28	25	15	8	6	-	-	-
	15÷60		80	60	56	33	17	12	-	-	-
AL28	3÷15		35	30	26	15	9	6	-	-	-
	6÷18		45	40	30	19	12	8	-	-	-
	6÷30		60	55	47	26	16	12	-	-	-
	15÷60		99	90	75	56	38	23	-	-	-
AL34 / AL35	3÷15		65	65	55	23	18	16	4	3	1
	6÷18		85	85	65	35	18	15	7	5	3
	6÷30		99	99	85	45	25	16	8	6	3
	15÷60		-	-	-	65	45	29	13	11	6
AL43 / AL44	3÷15		-	-	-	-	40	26	8	6	4
	6÷18		-	-	-	-	45	28	10	8	5
	6÷30		-	-	-	-	45	28	12	10	6
	15÷60		-	-	-	-	85	70	37	27	17

cl.VI	Soft seal- Class VI* - CEI EN 60534-4
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The pressure drop values must be used within the body rating limit

TYPE	diaphragm type - multispring	
CONTROL SIGNAL	3÷15 psi	15÷60 psi
	6÷18 psi	
	6÷30 psi	
MAX AIR SUPPLY PRESSURE	50 psi (3,5 bar)	87 psi (6 bar)
AMBIENT TEMPERATURE	-20÷70°C	
ACTUATOR CASING MATERIAL	Carbon Steel Fe410.1 Finish powder coat polyesrer RAL 7032	
DIAPHRAGM MATERIAL	NBR70	
YOKE MATERIAL	Pillar Type in Carbon Steel and Ductil Iron	
PNEUMATIC CONNECTIONS	1/4"NPT-F	

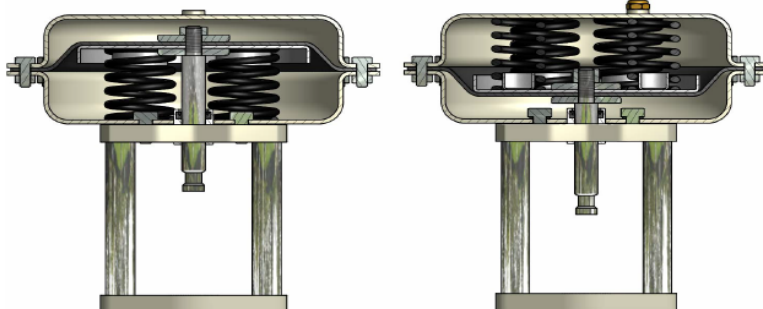


Fig.1

Fig.2

DIRECT ACTION : Air to Close (Fig.1)
REVERSE ACTION : Air to Open (Fig.2)

ACCESSORIES

Alarm contacts	4-20 mA Position feedback
Elettropneumatic positioner	Air filter regulator
Pneumatic positioner	Top mounted handwheel
SMART positioner	Solenoid valves
I/P Converter	Lock-Up pneumatic device

DIMENSIONS

DN	A (mm)	B (mm)	Nr. Holes	C (mm)
DN 15	130	47,5	4	126
DN 20	150	52,5	4	128
DN 25	160	57,5	4	129
DN 32	180	70	4	129
DN 40	200	75	4	128
DN 50	230	82,5	4	128
DN 65	290	92,5	4	165
DN 80	310	100	8	187
DN 100	350	110	8	184

ACTUATOR (mm)			
TYPE	Ø D	E	F
AL23	230	245	110
AL28	275	253	110
AL34 / AL35	335	276	150
AL43 / AL44	430	303	300

