

CLVT2W, CLVT3W (PN16)

PRODUCT DATA



GENERAL

These two-port and three-port valves are used for control of hot or chilled water in heating, ventilation, and air conditioning systems and can be operated by electric linear actuators such as CLLA20-xxxxx6 and CLLA20-xxxxx18.

FEATURES

- Brass body with external threaded end connections.
- Low seat leakage rate.
- Self-adjusting packing.
- Accurate positioning to ensure state-of-the-art temperature control.
- Easy mounting of electric linear actuators.
- Constant total flow throughout entire plug travel.

SPECIFICATIONS

Action	
CLVT2W	Stem down to close port A-AB
CLVT3W	Stem up to close port A-AB
Nominal pressure rating	PN16
Flow characteristic	
CLVT2W	Equal %
CLVT3W	Equal %: port A-AB, linear: port B-AB
Rangeability	50:1
Leakage rate	≤0.05% of k_{VS}
Stroke	20 mm
Valve body	
Pipe connections	External threading as per ISO228
Material	Brass
Dimensions	See Fig. 1.
Seat	
CLVT2W	Stainless steel
CLVT3W	DN15: Stainless steel DN20...50: body integrated
Plug	Brass
Stem	Stainless steel
Packing	Spring-loaded carbon-fiber reinforced PTFE V-rings
Medium temperature and max. pressure	
	2 ... 120 °C; max. 1600 kPa
	2 ... 170 °C; max. 1490 kPa
Medium temperature and max. pressure	
	60 K

SIZES AND FLOW CAPACITIES

Table 1. Sizes and flow capacities

order number	valve size	k _{vs}
CLVT2W0.6P16	DN15	0.6
CLVT2W1.0P16	DN15	1.0
CLVT2W1.6P16	DN15	1.6
CLVT2W2.5P16	DN15	2.5
CLVT2W4.0P16	DN15	4.0
CLVT2W6.3P16	DN20	6.3
CLVT2W10P16	DN25	10
CLVT2W16P16	DN32	16
CLVT2W25P16	DN40	25
CLVT2W40P16	DN50	40
CLVT3W2.5P16	DN15	2.5
CLVT3W4.0P16	DN15	4.0
CLVT3W6.3P16	DN20	6.3
CLVT3W10P16	DN25	10
CLVT3W16P16	DN32	16
CLVT3W25P16	DN40	25
CLVT3W40P16	DN50	40

INSTALLATION

- Water should meet VDI 2035 requirements.
- Do not install valve with stem below the horizontal.
- Fluid flow must correspond with the arrow direction on the valve body.
- The installation of a strainer is strongly recommended.
- The valve should be installed as stress-free as possible.

ACTUATOR DIMENSIONS

For actuator dimensions, please refer to:

CLLA20-10NSR6/SU6/SD6	EN0Z-0930GE51
CLLA20-10NSR18, CLLA38-10NSR18	EN0Z-0931GE51
CLLA20-24NSR6/SD6, /-230NSR6/SD6	EN0Z-0932GE51
CLLA20/38-24/-230NSR18	EN0Z-0933GE51
CLLA20-10/-230/-24	EN0Z-0936GE51

DIMENSIONS

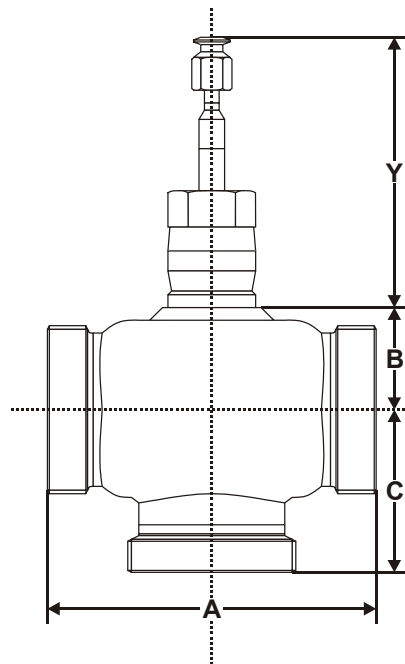


Fig. 1. CLVT2W, CLVT3W, dimensions (in mm)

Table 2. CLVT2W, CLVT3W, dimensions (in mm)

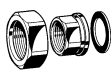
valve size	A	B	C (CLVT3W, only)	Y	
				CLVT3W	CLVT2W
DN15	80	40	55	89 (stem down)	107 (stem up)
DN20	90				
DN25	110				
DN32	120				
DN40	130				
DN50	150				
			60		
			65		

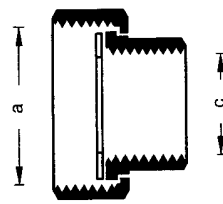
Table 3. Close-off pressure ratings of actuators (in kPa)

actuator		valve size					
model	force	DN15	DN20	DN25	DN32	DN40	DN50
CLLA20-xxxxx6	600 N	1600	1600	1000	700	460	260
CLLA20-xxxxx18	1800 N	--	--	1600	1600	1500	850

ACCESSORIES

CLVT2W 2-port valves require two internal thread connection sets. CLVT3W 3-port valves require three internal thread connection sets.

connection	pipe size	DN	order number	connection set		description
internal thread	G 1/2"	15	AC-15TF			consisting of 1 union nut, 1 tailpiece, and 1 gasket
	G 3/4"	20	AC-20TF			
	G 1"	25	AC-25TF			
	G 1-1/4"	32	AC-32TF			
	G 1-1/2"	40	AC-40TF			
	G 2"	50	AC-50TF			

dimensions of connection sets			order number
	a	c	
	G 1-1/8" G 1-1/4" G 1-1/2" G 2" G 2-1/4" G 2-3/4"	G 1/2" G 3/4" G 1" G 1-1/4" G 1-1/2" G 2"	AC-15TF AC-20TF AC-25TF AC-32TF AC-40TF AC-50TF

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