# resideo





# Centra Linear Valve DE/DI

2-Way Linear Valves - External/Internal Threaded

#### **APPLICATION**

Single seated control or shut-off 2-way linear valve for:

- hot water
- chilled water
- saturated steam (for valves with stainless steel plug)
- superheated steam (for valves with stainless steel plug)

in heating, ventilation, air conditioning systems and open circuits.

Operated by

• electric linear actuators series ML64... and ML74...

#### **SPECIAL FEATURES**

- Brass body with external threaded end connections (type DE)
- Brass body with internal threaded end connections (type DI)
- Low seat leakage rate
- · Self-adjusting packing
- Accurate positioning to ensure state-of-the-art temperature control
- Constant total flow throughout full plug travel

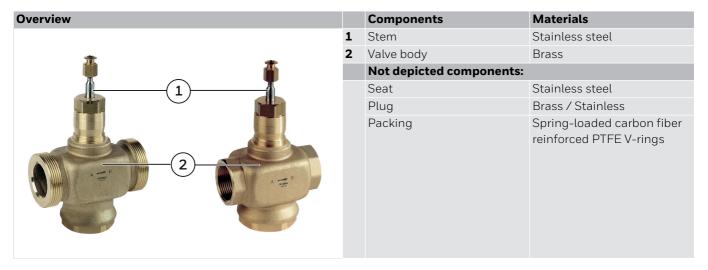


#### **TECHNICAL DATA**

Media

Wicaia				
Medium:	Water or glycol-water mixture, according to VDI 2035			
<b>Operating temperature</b>	s and operating pressure			
2 to 120 °C:	max. 1600 kPa			
120 to 170 °C:	max. 1490 kPa			
Max. temperature differential in alternating hot/cold water use:	60 K			
Connection/Sizes				
Pipe connection:	Internal threading as per ISO 228 External threading as per DIN 2999			
Specifications				
Action:	Stem up to close			
Nominal pressure rating:	PN16			
Flow characteristic:	Equal percentage			
Rangeability:	50:1			
Leakage rate:	≤0.05% of k <sub>vs</sub>			
Stroke:	20 mm			

#### **CONSTRUCTION**



#### **INSTALLATION GUIDELINES**

#### **Setup requirements**

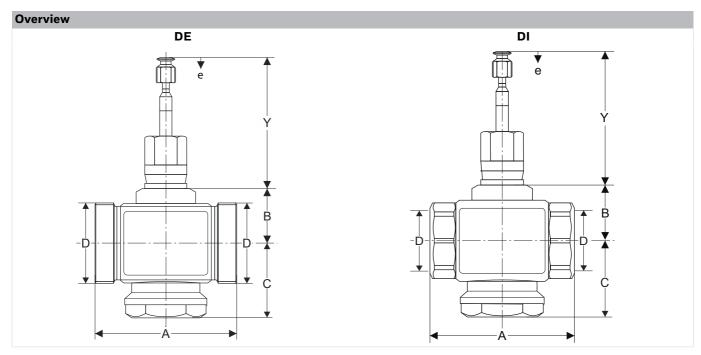
- Do not install valve with stem below the horizontal
- Fluid flow must correspond with the arrow direction on the valve body
- The installation of a strainer is strongly recommended

#### **TECHNICAL CHARACTERISTICS**

#### Close off pressure ratings in kPa

Actuator				Valve	Size		
Model	Force	DN15	DN20	DN25	DN32	DN40	DN50
ML6420, ML6425 ML7420, ML7425	600 N	1600 kPa	1000 kPa	1000 kPa	700 kPa	460 kPa	260 kPa
ML6421, ML7421	1800 N	-	-	1600 kPa	1600 kPa	1300 kPa	850 kPa

#### **DIMENSIONS**



DN	D	Α	В	С	Stem up	Stroke			
DIV		^			Y	е			
	DE								
15	$\mathrm{G}1^1/_8$ "	80	40	55					
20	G 1 <sup>1</sup> / <sub>4</sub> "	90	40	55					
25	$G 1^{1}/_{2}$ "	110	40	55	89	20			
32	G 2"	120	40	55	69	20			
40	G 2 <sup>1</sup> / <sub>4</sub> "	130	40	60					
50	G 2 <sup>3</sup> /4"	150	40	65					
			DI						
15	Rp <sup>1</sup> / <sub>2</sub> "	83	40	55					
20	Rp <sup>3</sup> /4"	83	40	55					
25	Rp 1"	103	40	55	89	20			
32	Rp 1 <sup>1</sup> / <sub>4</sub> "	106	40	55		20			
40	$Rp 1^{1}/_{2}$ "	120	40	66.5					
50	Rp 2"	134	40	66.5					

Note: All dimensions in mm unless stated otherwise.

#### **ORDERING INFORMATION**

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

#### Naming key linear valves

D	I	15	В	0.63	SS
2-way valve	Type of thread	DN (mm)	PN (bar)	K <sub>VS</sub> -value	Special
D = 2-way valve	E = External I = Internal	15 20 25 32 40 50	B = 16	0.63 1 1.6 2.5 4 6.3 10 16 25 40	SS = Stainless plug

#### **Options**

## Valve with external threads (DE)

DN	k <sub>vs</sub> -value	Connection	Nominal pressure	Description	OSNo.
15	0.63			2-way valve, ext. threat, DN15, PN16, kvs 0.63	DE15B0.63
15	1			2-way valve, ext. threat, DN15, PN16, kvs 1.0	DE15B1.0
15	1.6			2-way valve, ext. threat, DN15, PN16, kvs 1.6	DE15B1.6
15	2.5			2-way valve, ext. threat, DN15, PN16, kvs 2.5	DE15B2.5
15	4.0	External	PN16	2-way valve, ext. threat, DN15, PN16, kvs 4.0	DE15B4.0
20	6.3	thread	PINIO	2-way valve, ext. threat, DN20, PN16, kvs 6.3	DE20B6.3
25	10			2-way valve, ext. threat, DN25, PN16, kvs 10	DE25B10
32	16			2-way valve, ext. threat, DN32, PN16, kvs 16	DE32B16
40	25			2-way valve, ext. threat, DN40, PN16, kvs 25	DE40B25
50	40			2-way valve, ext. threat, DN50, PN16, kvs 40	DE50B40

### Valve with internal threads (DI)

DN	k <sub>vs</sub> -value	Connection	Nominal pressure	Description	OSNo.
15	0.63			2-way valve, int. threat, DN15, PN16, kvs 0.63	DI15B0.63
15	1			2-way valve, int. threat, DN15, PN16, kvs 1.0	DI15B1.0
15	1.6			2-way valve, int. threat, DN15, PN16, kvs 1.6	DI15B1.6
15	2.5			2-way valve, int. threat, DN15, PN16, kvs 2.5	DI15B2.5
15	4.0			2-way valve, int. threat, DN15, PN16, kvs 4.0	DI15B4.0
20	6.3			2-way valve, int. threat, DN20, PN16, kvs 6.3	DI20B6.3
25	10			2-way valve, int. threat, DN25, PN16, kvs 10	DI25B10
32	16			2-way valve, int. threat, DN32, PN16, kvs 16	DI32B16
40	25			2-way valve, int. threat, DN40, PN16, kvs 25	DI40B25
50	40			2-way valve, int. threat, DN50, PN16, kvs 40	DI50B40
15	0.63			2-way valve, int. threat, DN15, PN16, kvs 0.63, stainless plug	DI15B0.63SS
15	1			2-way valve, int. threat, DN15, PN16, kvs 1.0, stainless plug	DI15B1.0SS
15	1.6	Internal thread	PN16	2-way valve, int. threat, DN15, PN16, kvs 1.6, stainless plug	DI15B1.6SS
15	2.5			2-way valve, int. threat, DN15, PN16, kvs 2.5, stainless plug	DI15B2.5SS
15	4.0			2-way valve, int. threat, DN15, PN16, kvs 4.0, stainless plug	DI15B4.0SS
20	6.3			2-way valve, int. threat, DN20, PN16, kvs 6.3, stainless plug	DI20B6.3SS
25	10			2-way valve, int. threat, DN25, PN16, kvs 10, stainless plug	DI25B10SS
32	16			2-way valve, int. threat, DN32, PN16, kvs 16, stainless plug	DI32B16SS
40	25			2-way valve, int. threat, DN40, PN16, kvs 25, stainless plug	DI40B25SS
50	40			2-way valve, int. threat, DN50, PN16, kvs 40, stainless plug	DI50B40SS

#### Accessories

	Descriptio	n	Voltage	Runtime	Part No.
	ML6420A	Actuator: 3-point / floating			
		20 mm effective stroke, 600N	230 V AC	60 s	ML6420A3015
				30 s	ML6420A3031
			24 V AC	60 s	ML6420A3007
				30 s	ML6420A3023
	ML7420A	Actuator: modulating 0/2 10			
		20 mm effective stroke, 600N	24 V AC	60 s	ML7420A6009
				30 s	ML7420A6017
	ML6421	Actuator: 3-point / floating			
	WILUTZI	20 mm effective stroke, 1800N	230 \/ \C	114 s	ML6421A3013
		20 mm enective stroke, 1000N	230 V AC	1145	WIL0421A3013
	ML7421	Actuator: modulating 0/2 10	0 V		
		20 mm effective stroke, 1800N	24 V AC	114 s	ML7421A3004
No.					
	ML6425	Actuator: 3-point / floating (s			
		20 mm effective stroke, 600N,		108 s	ML6425A3014
		spring return direct	24 V AC		ML6425A3006
		20 mm effective stroke, 600N,			ML6425B3021
		spring return reverse	24 V AC		ML6425B3005
No.	141 7/05				
	ML7425	Actuator: modulating 0/2 10			N. 1. 2. 05 N. 00 C. 2
		20 mm effective stroke, 600N	24 V AC	108 s	ML7425A6008
		20 mm effective stroke, 600N,			ML7425B6007
		spring return reverse			
el-					

# Only for DE

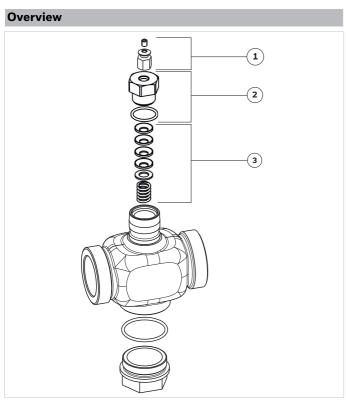
	Description		Dimension		Part No.
	ASV-CS-xx-I-F	Flat connection set			
Ţ <b>[</b>	consisting of  • 1 union nut	DN15	a: G 1 <sup>1</sup> / <sub>8</sub> " c: G <sup>1</sup> / <sub>2</sub> "	ASV-CS-15-I-F	
e H		<ul><li>1 tailpiece</li><li>1 gasket</li></ul>	DN20	a: G 1 <sup>1</sup> / <sub>4</sub> " c: G <sup>3</sup> / <sub>4</sub> "	ASV-CS-20-I-F
		1 gasket	DN25	a: G 1 <sup>1</sup> / <sub>2</sub> " c: G 1"	ASV-CS-25-I-F
			DN32	a: G 2 c: G 1 <sup>1</sup> / <sub>4</sub> "	ASV-CS-32-I-F
			DN40	a: G 2 <sup>1</sup> / <sub>4</sub> " c: G 1 <sup>1</sup> / <sub>2</sub> "	ASV-CS-40-I-F
			DN50	a: G 2 <sup>3</sup> / <sub>4</sub> " c: G 2"	ASV-CS-50-I-F

#### Naming key accessories

ASV	-CS	-15	-I	-F
Accessories and spares for valves	Connection Set	Type	Type of thread	
ASV = Accessories and spares for valves	CS = Connection Set	15 20 25 32 40 50	I = Internal Thread	F = Flat Sealing

DN	Description	OS-No.
DN15	Connection set type 13, DN15, internal thread, flat	ASV-CS-15-I-F
DN20	Connection set type 13, DN20, internal thread, flat	ASV-CS-20-I-F
DN25	Connection set type 13, DN25, internal thread, flat	ASV-CS-25-I-F
DN32	Connection set type 13, DN32, internal thread, flat	ASV-CS-32-I-F
DN40	Connection set type 13, DN40, internal thread, flat	ASV-CS-40-I-F
DN50	Connection set type 13, DN50, internal thread, flat	ASV-CS-50-I-F

#### **Spare Parts**



	Description	Dimension	Part No.
1	Stem button assy		
		DN15 - DN50	ASV-SBA-1
2	Packing nut		
		DN15 - DN50	ASV-PN-7
3	Packing		
		DN15 - DN50	ASV-PAC-2

#### Naming key spare parts

ASV	-SBA	-1
Accessories and spares for valves	Range	Type
ASV = Accessories and spares for valves	PAC = Packing, complete	1
	PN = Packing, nut	2
	SBA = Stem button assy	7



Strandvejen 42 • Saksild • 8300 Odder 86 62 63 64 • <a href="https://www.automatikcentret.dk">www.automatikcentret.dk</a>

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