

Centra DF-C

2-Way Flanged Linear Valve PN 25 - Pressure Balanced

Application

These single-seated valves are used for modulating control of hot/chilled water or steam in heating, ventilating and air conditioning systems.

They are designed especially for use in high differential pressure applications.

Because of the pressure-balanced plug, the close-off pressure is equal to the system pressure.

The valves, depending on stroke, can be operated by linear actuators series MLLYD060/MLHFD060, MLLYD180/MLHYD180, MLLYE180/MLHYE180, ML6425... and ML7425...

In combination with actuators ML6425A/ML7425A the DF-C-SV safety linear valves are approved according DIN EN 14597 and marked with CE0035 e.g. for district heating application.

Special Features

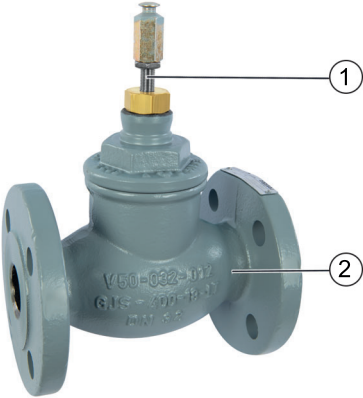
- Pressure-balanced plug
- Nodular iron body with flanged end connections
- Low seat leakage rate
- Metal-to-metal seating for long life span
- Self-adjusting packing
- Accurate positioning to ensure state-of-the-art temperature control
- Direct-coupled electric for easy mounting
- Special versions are approved according to DIN EN 14597 in combination with dedicated actuators



Technical Data

Medium		
Medium:	Water with max. 50 % glycol according to VDI 2035	
Operating temperatures and operating pressure		
DN 15 - DN 125:	2...120 °C:	max. 2500 kPa
	120...160 °C:	max. 2250 kPa
	160...200 °C:	max. 2000 kPa
Maximum temperature differential in alternating hot/cold water use:	60 K	
Connection/Sizes		
Connection:	Flanged per ISO 7005-2 Nodular iron (GGG40.3)	
Specifications		
Action:	Stem down to close	
Nominal pressure rating:	PN 25	
Flow characteristic:	Equal percentage	
Rangeability:	50:1	
Leakage rate:	≤0.05 % of k_{VS} (DN 15 - DN 80)	
	≤0.1 % of k_{VS} (DN 100 - DN 125)	
Stroke:	20 mm (DN 15 - DN 80)	
	38 mm (DN 100 - DN 125)	
Packaging:	Spring-loaded PTFE cone rings	

Construction

Overview		Components	Materials
	1	Stem	Stainless steel
	2	Valve body	Nodular iron (GGG40.3), Flanged per ISO 7005-2
	Not depicted components:		
		Seat	Stainless steel
		Plug	Stainless steel, skirt-guided

Installation Guidelines

Setup requirements

- 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 has to be installed stress-free
- Water hammer have to be avoided

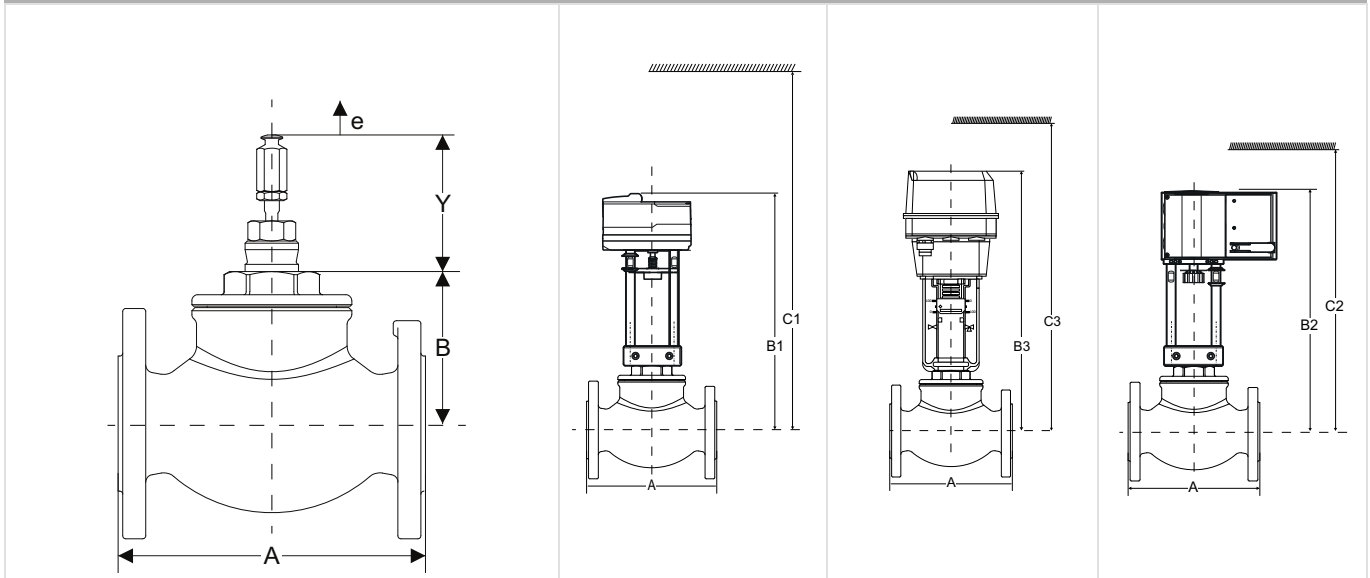
Technical Characteristics

Close off pressure ratings in kPa

Actuator		Valve Size									
Model	Force	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125
MLLYD060, MLHFD060, ML6425A/B, ML7425A/B	600 N	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	-	-
MLLYD180, MLHYD180	1800 N	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	2500 kPa	-	-
MLLYE180, MLHYE180	1800 N	-	-	-	-	-	-	-	-	2500 kPa	2500 kPa

Dimensions

Overview



DN	A	B	Adjustment dimension (Valve in closed position)	Stroke	MLLYD060, MLHFD060		ML6425, ML7425		MLLYD180, MLHYD180			
					Y	e	B1	C1	B3	C3	B2	C2
DN 15	130	95	89	20	363	513	380	460	415	445		
DN 20	150				363	513	380	460	415	445		
DN 25	160				363	513	380	460	415	445		
DN 32	180	99			367	517	385	465	419	449		
DN 40	200				367	517	385	465	419	449		
DN 50	230				101	369	519	385	465	421	451	
DN 65	290	106			374	524	390	470	426	456		
DN 80	310	150			418	568	435	515	470	500		
											MLLYE180, MLHYE180	
DN 100	350	150			133	38	-	-	-	-	516	546
DN 125	400	156	-	-			-	-	522	552		

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.

Naming key linear valves

D	F	15	C	0.4	-SV
Type of valve	Type of thread	DN	PN	k _{VS} -value	Special (optional)
D = 2-way valve	F = Flanged	15	C = 25	0.4	SV = Safety valve
		20		0.63	
		25		1.0	
		32		1.6	
		40		2.5	
		50		4.0	
		65		6.3	
		80		10	
		100		16	
		125		25	
				40	
				63	
				100	
				160	
				250	

2-Way Linear Valve - Flanged

DN	k _{VS} -value	Connection	Nominal pressure	Description	Item No.
DN 15	0.4	flanged	PN 25	2-way valve, flanged, DN 15, PN 25, k _{VS} 0.4, nodular iron	DF15C0.4
DN 15	1.6	flanged	PN 25	2-way valve, flanged, DN 15, PN 25, k _{VS} 1.6, nodular iron	DF15C1.6
DN 15	4.0	flanged	PN 25	2-way valve, flanged, DN 15, PN 25, k _{VS} 4.0, nodular iron	DF15C4.0
DN 20	6.3	flanged	PN 25	2-way valve, flanged, DN 20, PN 25, k _{VS} 6.3, nodular iron	DF20C6.3
DN 25	10	flanged	PN 25	2-way valve, flanged, DN 25, PN 25, k _{VS} 10, nodular iron	DF25C10
DN 32	16	flanged	PN 25	2-way valve, flanged, DN 32, PN 25, k _{VS} 16, nodular iron	DF32C16
DN 40	25	flanged	PN 25	2-way valve, flanged, DN 40, PN 25, k _{VS} 25, nodular iron	DF40C25
DN 50	40	flanged	PN 25	2-way valve, flanged, DN 50, PN 25, k _{VS} 40, nodular iron	DF50C40
DN 65	63	flanged	PN 25	2-way valve, flanged, DN 65, PN 25, k _{VS} 63, nodular iron	DF65C63
DN 80	100	flanged	PN 25	2-way valve, flanged, DN 80, PN 25, k _{VS} 100, nodular iron	DF80C100
DN 100	160	flanged	PN 25	2-way valve, flanged, DN 100, PN 25, k _{VS} 160, nodular iron	DF100C160
DN 125	250	flanged	PN 25	2-way valve, flanged, DN 125, PN 25, k _{VS} 250, nodular iron	DF125C250

2-Way Linear Valves - Flanged - Safety Valves according to DIN EN 14597

DN	k _{VS} -value	Connection	Nominal pressure	Description	Item No.
DN 15	0.4	flanged	PN 25	2-way valve, flanged, DN15, PN 25, k _{VS} 0.4, nodular iron, SV	DF15C0.4-SV
DN 15	0.63	flanged	PN 25	2-way valve, flanged, DN15, PN 25, k _{VS} 0.63, nodular iron, SV	DF15C0.63-SV
DN 15	1.0	flanged	PN 25	2-way valve, flanged, DN15, PN 25, k _{VS} 1.0, nodular iron, SV	DF15C1.0-SV
DN 15	1.6	flanged	PN 25	2-way valve, flanged, DN15, PN 25, k _{VS} 1.6, nodular iron, SV	DF15C1.6-SV
DN 15	2.5	flanged	PN 25	2-way valve, flanged, DN15, PN 25, k _{VS} 2.5, nodular iron, SV	DF15C2.5-SV
DN 15	4.0	flanged	PN 25	2-way valve, flanged, DN15, PN 25, k _{VS} 4.0, nodular iron, SV	DF15C4.0-SV
DN 20	6.3	flanged	PN 25	2-way valve, flanged, DN20, PN 25, k _{VS} 6.3, nodular iron, SV	DF20C6.3-SV
DN 25	10	flanged	PN 25	2-way valve, flanged, DN25, PN 25, k _{VS} 10, nodular iron, SV	DF25C10-SV
DN 32	16	flanged	PN 25	2-way valve, flanged, DN32, PN 25, k _{VS} 16, nodular iron, SV	DF32C16-SV
DN 40	25	flanged	PN 25	2-way valve, flanged, DN40, PN 25, k _{VS} 25, nodular iron, SV	DF40C25-SV
DN 50	40	flanged	PN 25	2-way valve, flanged, DN50, PN 25, k _{VS} 40, nodular iron, SV	DF50C40-SV
DN 65	63	flanged	PN 25	2-way valve, flanged, DN65, PN 25, k _{VS} 63, nodular iron, SV	DF65C63-SV
DN 80	100	flanged	PN 25	2-way valve, flanged, DN80, PN 25, k _{VS} 100, nodular iron, SV	DF80C100-SV

Note: Safety valves according to DIN EN 14597 only to be used in combination with the linear actuators ML6425A3014, ML6425A3006 and ML7425A6008.

Accessories

Overview associated actuators

Valve stroke	Actuator	Power supply	Control signal
20 mm	ML6425A/B	230 V AC or 24 V AC power supply	3-point
	ML7425A/B	24 V AC power supply	0 - 10 V
	MLHFD060	230 V AC power supply	3-point, 2-point
	MLLYD060	24 V AC/DC power supply	0 - 10 V or 3-point, 2-point
	MLHYD180	230 V AC power supply	
	MLLYD180	24 V AC/DC power supply	
38 mm	MLLYE180	24 V AC/DC power supply	
	MLHYE180	230 V AC power supply	

	Description	Voltage	Runtime	Item No.
	MLLYD060 Actuator: 20 mm stroke, 600 N, 0-10 V (modulating), 3-point (floating), 2-point			
		24 V AC/DC	80 s (120 s)	MLLYD060-00
	MLHFD060 Actuator: 20 mm stroke, 600 N, 3-point (floating), 2-point			
		230 V AC	120 s (240 s)	MLHFD060-00
	ML6425 Spring-return actuator: 20 mm stroke, 600 N, 3-point, floating			
	Spring return extends	230 V AC	108 s	ML6425A3014
		24 V AC		ML6425A3006
	Spring return retract	230 V AC		ML6425B3021
		24 V AC		ML6425B3005
	ML7425 Spring-return actuator: 20 mm stroke, 600 N, 0/2 ... 10 V, modulating			
	Spring return extends	24 V AC	108 s	ML7425A6008
	Spring return retract			ML7425B6007
	MLLYD180 Actuator: 20 mm stroke, 1800 N, 0-10 V (modulating), 3-point (floating), 2-point			
		24 V AC/DC	120 s (80 s, 40 s)	MLLYD180-00
	MLHYD180 Actuator: 20 mm stroke, 1800 N, 0-10 V (modulating), 3-point (floating), 2-point			
		230 V AC	120 s (80 s, 40 s)	MLHYD180-00
	MLLYE180 Actuator: 38 mm stroke, 1800 N, 0-10 V (modulating), 3-point (floating), 2-point			
		24 V AC/DC	228 s (152 s, 76 s)	MLLYE180-00
	MLHYE180 Actuator: 38 mm stroke, 1800 N, 0-10 V (modulating), 3-point (floating), 2-point			
		230 V AC	228 s (152 s, 76 s)	MLHYE180-00

Spare Parts

Naming key spare parts

ASV	-PA	-4	-25
Accessories and spares for valves	Range	Type	k _{VS} -value
ASV = Accessories and spares for valves	OR = O-ring for linear valves	1	25
	PA = Plug assembly	2	40
	PAC = Packing, complete	3	63
	PN = Packing, nut	4	100
	SBA = Stem button assy	5	160
		6	250

Overview	Description	Dimension	Item No.
	1 Stem button assy		
		DN 15 - DN 125	ASV-SBA-2
	2 Packing nut		
		DN 15 - DN 80	ASV-PN-5
		DN 100 - DN 125	ASV-PN-6
	3 Packing		
		DN 15 - DN 80	ASV-PAC-5
		DN 100 - DN 125	ASV-PAC-6
	4 O-rings		
	10 pcs.	DN 40	ASV-OR-1
	10 pcs.	DN 50	ASV-OR-2
	5 pcs.	DN 65	ASV-OR-3
	5 pcs.	DN 80 - DN 100	ASV-OR-4
	5 pcs.	DN125	ASV-OR-5
	5 Plug assembly		
		DN 40, k _{VS} 25	ASV-PA-1-25
		DN 50, k _{VS} 40	ASV-PA-1-40
		DN 65, k _{VS} 63	ASV-PA-1-63
		DN 80, k _{VS} 100	ASV-PA-1-100

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Subject to change. EN0H-1783GE23 R0726
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