

Centra DR

3-way Mixing Valve angled flow, PN6

Application

The Centra DR rotary valves provide water temperature control in heating and air conditioning applications.

These valves are designed for accurate mixing control of supply water temperature in heating and air conditioning systems.

Its sturdy construction ensures a long and reliable operating life when used in combination with VMM and VRM-N actuators.

The Centra DR rotary valves are installed so that both inlets flow through the rotary valve at an angle. The supply and return flow can be interchanged.

Special Features

- Cast iron body with flanged end connections (type FA) or with internal threaded end connections (type MA)
- Chrome-plated plug for long life
- Optimized characteristic for supply water temperature control
- Protected against corrosion and blocking
- Reliable mounting for electrical actuators
- Clear position indicator
- Wide range of flow rates with suitable actuators



Technical Data

Media	
Medium:	Water with max. 50 % glycol according to VDI 2035
Pressure values	
Nominal static pressure:	6 bar, 600 kPa
Operating temperatures	
Water temperatures in the valve:	2 to 130 °C, non-condensing
Specifications	
Leakage rate:	1% of kvs
Connections:	Internal threads (type MA) or flange (type FA) in accordance with DIN EN 1092-2
Angle of rotation:	90 °
Packing:	Double o-ring sealing
Flow characteristic:	equal percentage

Construction

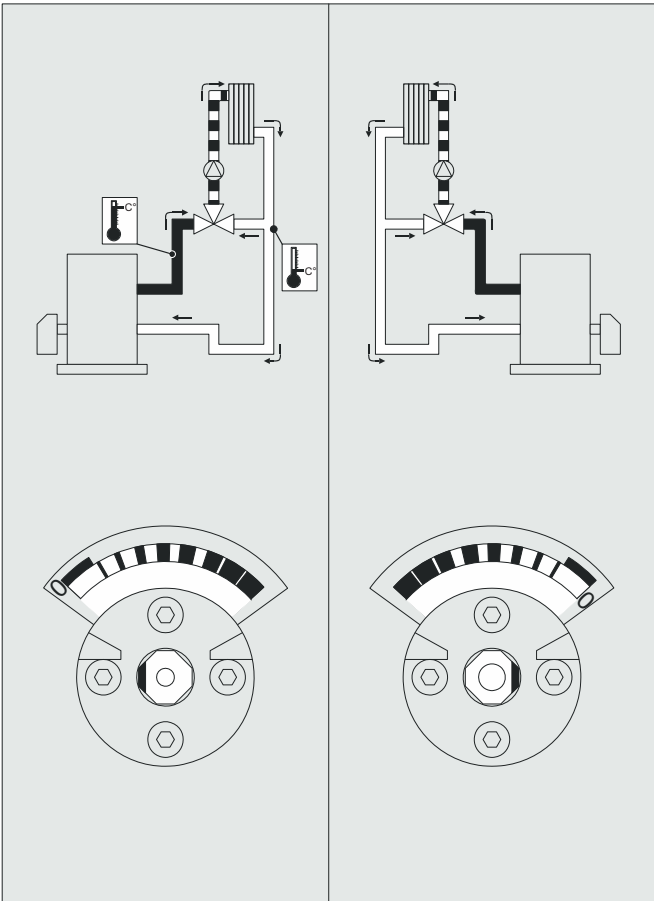
Overview	Components	Materials
	1 Housing	Cast iron
	Not depicted components:	
	Inner parts	Chrome-plated cast iron

Method of Operation

The valve controls a mixing water temperature with a rotating plug. The plug adjusts the water flow of two inputs with two control curves. The required flow water temperature is reached by adding a proportion of return water to the boiler hot water. For optimum control performance, the DR has special control characteristics.

Installation Guidelines

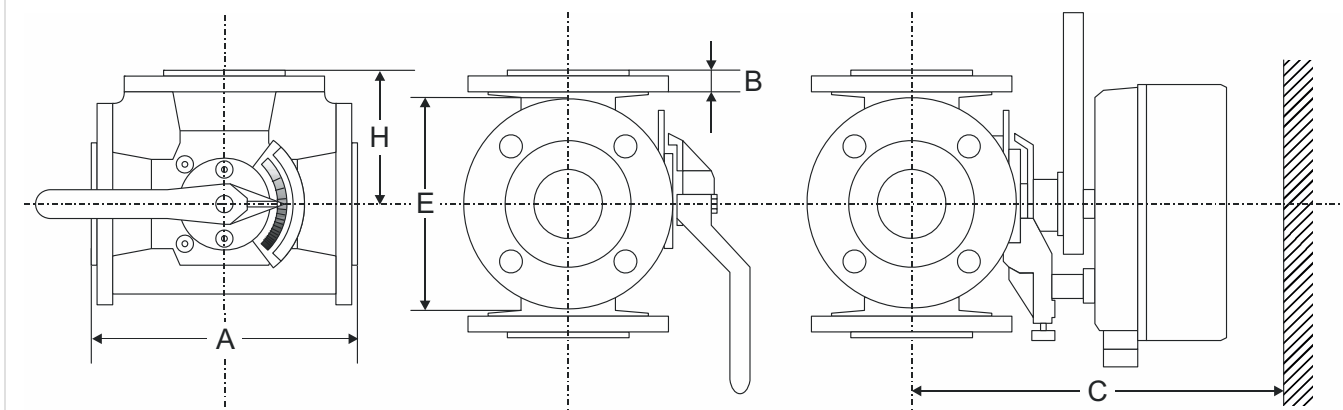
Installation Example



Dimensions

DR-FA

Overview

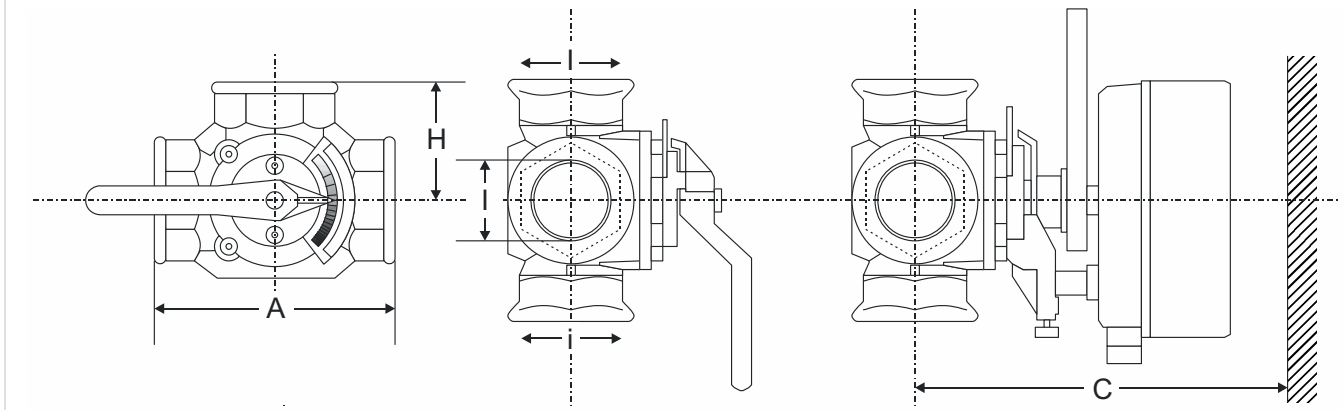


DN	A	B	C	E	H	Net weight	Item No.
40	170	16	240	130	85	7.1 kg	DR40FA
50	190	16	250	140	95	9.8 kg	DR50FA
65	210	16	270	160	105	12.3 kg	DR65FA
80	250	18	270	190	125	21.4 kg	DR80FA
100	270	18	290	210	135	26.5 kg	DR100FA
125	310	20	320	240	155	42.0 kg	DR125FA
150	330	20	325	264	165	49.0 kg	DR150FA
200	390	22	365	320	195	78.0 kg	DR200FA

Note: All dimensions in mm unless stated otherwise.

DR-MA

Overview



DN	A	C	Wrench size	H	I	Net weight	Item No.
15	110	230	41	55	R 1/2 in.	2.2 kg	DR15MA
20	110	230	46	55	R 3/4 in.	2.3 kg	DR20MA
25	115	230	50	58	R 1 in.	2.4 kg	DR25MA
32	140	240	60	70	R 1 1/4 in.	4.1 kg	DR32MA
40	150	240	65	75	R 1 1/2 in.	4.3 kg	DR40MA

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.

Options

DN	kvs [m³/h]	Δp max [kPa]	Nominal torque [Nm]	Item Number	
				Internal thread	Flange
15	4.0	100	10	DR15MA	-
20	6.3	100	10	DR20MA	-
25	10	100	10	DR25MA	-
32	16	100	10	DR32MA	-
40	25	100	20	DR40MA	DR40FA
50	40	100	20	-	DR50FA
65	63	100	20	-	DR65FA
80	100	100	30	-	DR80FA
100	160	100	30	-	DR100FA
125	250	70	30	-	DR125FA
150	630	50	30	-	DR150FA
200	1600	50	40	-	DR200FA

Accessories

	Description	Torque (Nm)	Voltage	Item No.
	VMM Actuator: 3-point (floating)			
	rotating, 90°	20	230 V AC	VMM20
		20	24 V AC	VMM20-24
		30	230 V AC	VMM30
		30	24 V AC	VMM30-24
		40	230 V AC	VMM40
		40	24 V AC	VMM40-24
		40	230 V AC	VMM40F
		40	24 V AC	VMM40-24F
	VRM-N Actuator: 0/2 - 10 V / modulating, 3-Point (floating), 2-Point			
	rotating, 90°	10	24 V AC/DC	VRM10N
		20		VRM20N
		30		VRM30N
		40		VRM40N

Spare Parts

Rotary valve DR, from 1988 onwards

Overview	Description	Dimension	Item No.
	3, 4, 5, 6, 7, 10	Seal kit* complete	
		DN15 - DN40	019001030
		DN50 - DN65	019001040
		DN80 - DN100	019001050
		DN125 - DN200	019001060
	12, 13	O-ring cover with screws	
			030000114
	10	O-ring	
			071099535
	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	Valve cover* with o-ring and screws	
		DN15 - DN25	030000105
		DN32 - DN40	030000106
		DN50 - DN65	030000107
		DN80 - DN100	030000108
		DN125 - DN200	030000392
	2	Rotary plug	
		DN15 (k _{vs} 4.0)	030000110
		DN20	030000110
		DN25	030000111
		DN32	030000112
		DN40	030000113
		DN50	030000162
		DN65	030000164
		DN80	030000165
		DN100	030000168
		DN125	030000388
	14, 15	Rotary lever	
		DN15 - DN65	030000115
		DN80 - DN200	030000098
	11	Scale	
		DN15 - DN65	030000117
		DN80 - DN125	030000123

* Numbers of components depending on size

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