

Centra

ZR

4-way Mixing Valve, PN6

Application

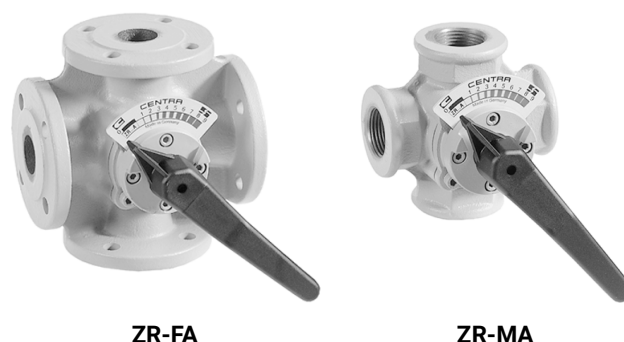
The Centra ZR rotary valves provide water temperature control in heating and air conditioning applications.

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.

Special Features

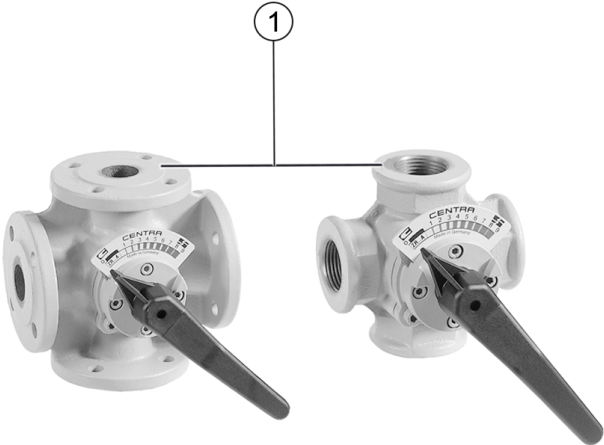
- Cast iron body with flanged end connections (type FA) or with internal threaded end connections (type MA)
- Chrome-plated plug for long life
- Optimized characteristic for supply water temperature control
- Protected against corrosion
- Reliable mounting for electrical actuators
- Clear position indicator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



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, (DN200: 2...110 °C) non-condensing
Specifications	
Leakage rate:	1% of kvs
Connections:	Internal threads (type MA) or flange (type FA) according to DIN EN 1092-2
Angle of rotation:	90 °
Flange:	according to DIN 2531
Packing:	Double O-ring sealing
Flow characteristic:	equal percentage

Construction

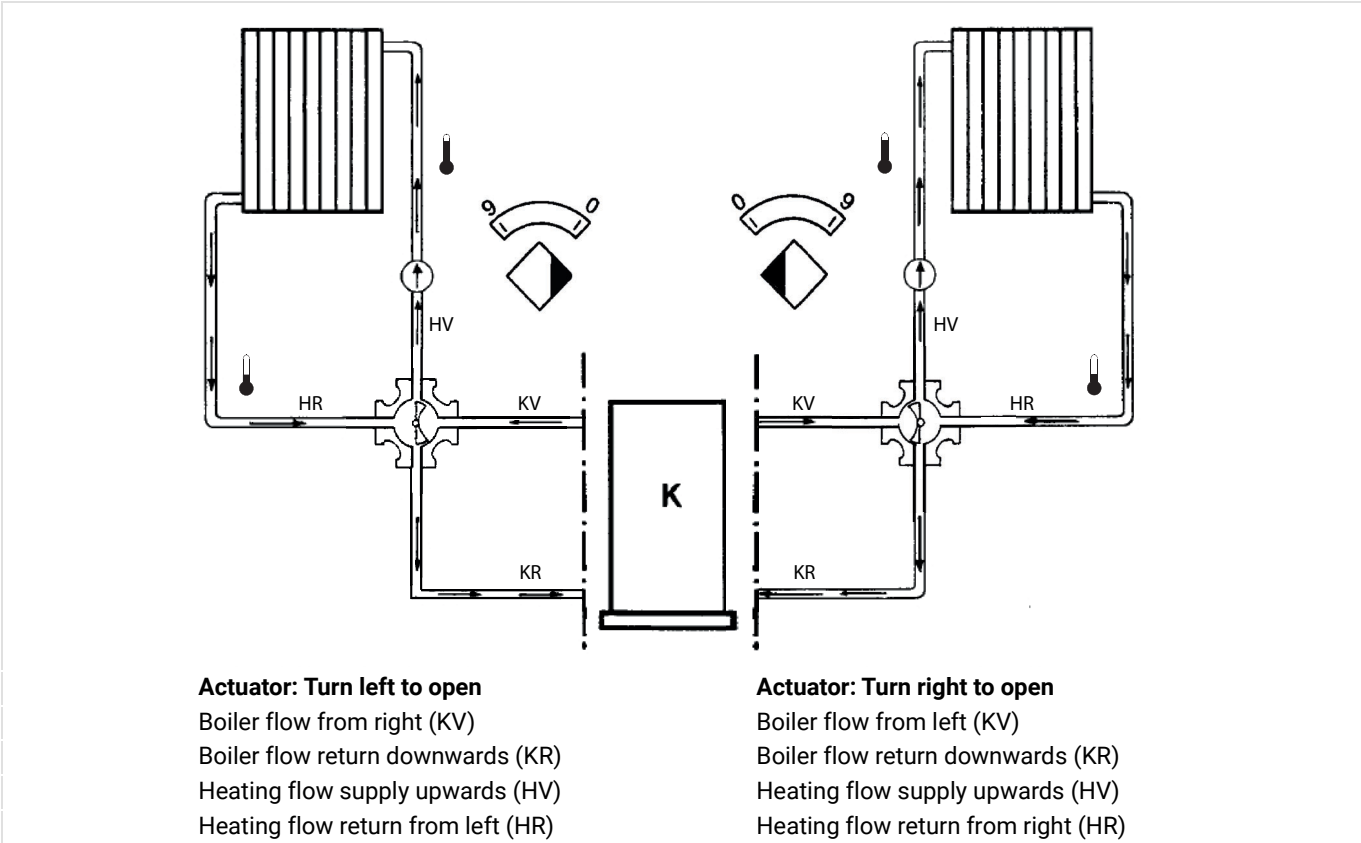
Overview	Components	Materials
	1 Housing	Cast iron
	Not depicted components:	
	Inner parts	Chrome-plated cast iron

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 ZR has special control characteristics.

Installation Guidelines

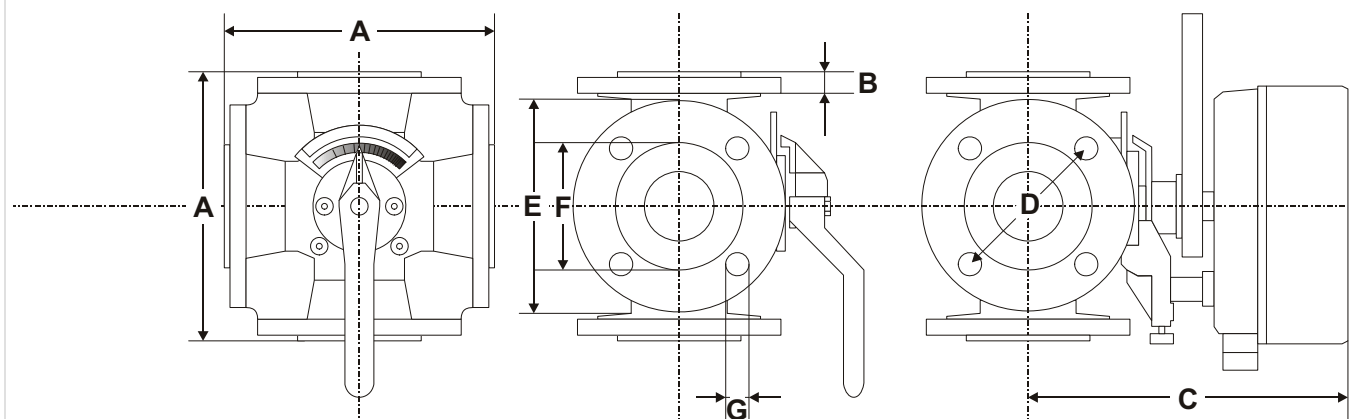
Installation Example



Dimensions

ZR-FA

Overview

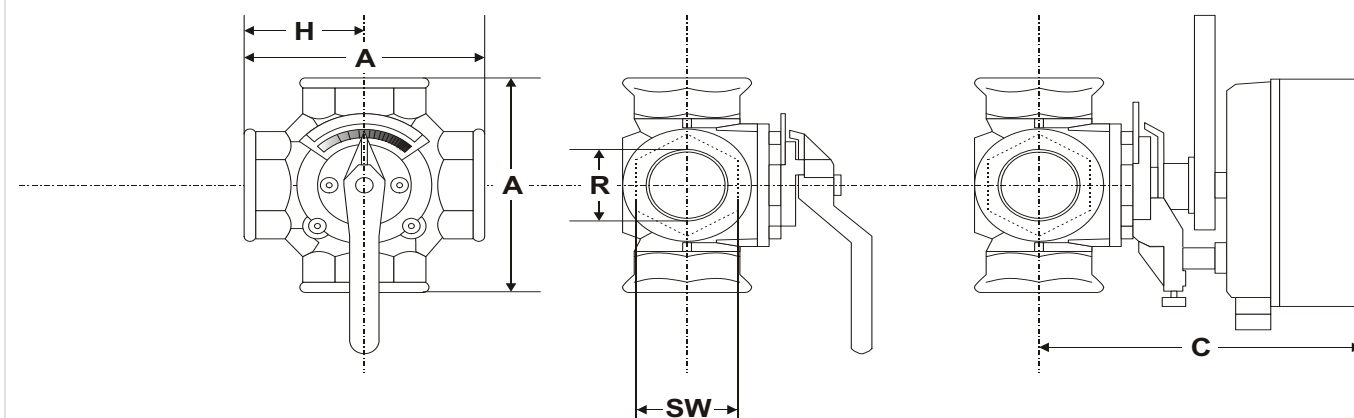


DN	A	B	C	D	E	F	z x G	Net weight	Item No.
25	150	15	179	75	100	60	4x11	4.8 kg	ZR25FA
32	160	16	188	90	120	70	4x14	7.6 kg	ZR32FA
40	170	16	188	100	130	80	4x14	8.5 kg	ZR40FA
50	190	16	202	110	140	90	4x14	11.0 kg	ZR50FA
65	210	16	219	130	160	110	4x14	14.4 kg	ZR65FA
80	250	18	219	150	190	128	4x18	24.3 kg	ZR80FA
100	270	18	240	170	210	148	4x18	32.9 kg	ZR100FA
125	310	18	267	200	240	178	8x18	49.0 kg	ZR125FA
150	330	20	274	225	265	202	8x18	57.0 kg	ZR150FA
200	390	22	314	280	320	258	8x18	84.0 kg	ZR200FA

Note: All dimensions in mm unless stated otherwise.

ZR-MA

Overview



DN	A	C	SW	H	R	Net weight	Item No.
15	110	179	41	55	1/2"	2.4 kg	ZR15MA
20	110	179	46	55	3/4"	2.5 kg	ZR20MA
25	115	179	50	58	1"	2.6 kg	ZR25MA
32	140	188	60	70	1 1/4"	4.3 kg	ZR32MA
40	150	188	65	75	1 1/2"	4.5 kg	ZR40MA

Note: All dimensions in mm unless stated otherwise.

Ordering Information

Options

DN	kvs (m³/h)	Δp max. (kPa)	Nominal torque (Nm)	Item No.	
				Internal thread	Flange
15	4.0	100	20	ZR15MA	–
20	6.3	100	20	ZR20MA	–
25	10	100	20	ZR25MA	ZR25FA
32	16	100	20	ZR32MA	ZR32FA
40	25	100	20	ZR40MA	ZR40FA
50	40	100	20	–	ZR50FA
65	63	100	20	–	ZR65FA
80	100	100	30	–	ZR80FA
100	160	80	30	–	ZR100FA
125	250	50	30	–	ZR125FA
150	400	40	30	–	ZR150FA
200	630	30	40	–	ZR200FA

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 ZR, 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 - DN20	030000110
		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
	16	Mounting bracket	
			030000302
	17	Coupling	
			030000526
	18	Adjusting lever	
			030000518

* Numbers of components depending on size

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