

# Centra DRG

## 3-way Mixing Valve

### Application

The Centra DRG 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 DRG 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 GFLA)
- Cast iron body with internal threaded end connections (type GMLA)
- 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



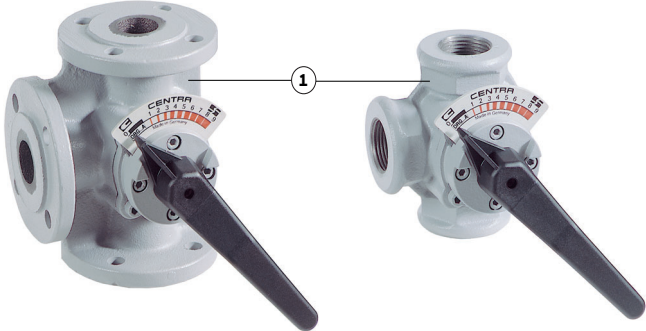
**DR-GFLA**

**DR-GMLA**

### Technical Data

|                                  |                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal static pressure:         | 6 bar, 600 kPa                                                                                                                                   |
| Max. pressure drop:              | depending on type (see chapter "Ordering Information")                                                                                           |
| Leakage rate:                    | 1% of kvs                                                                                                                                        |
| Ports:                           | Internal threads / flange in accordance with DIN EN 1092-2 depending on type (see chapter "Ordering Information")                                |
| Angle of rotation:               | 90 °C                                                                                                                                            |
| Internal threads:                | 8 windings long                                                                                                                                  |
| Packing:                         | Double o-ring sealing                                                                                                                            |
| Medium:                          | Heating water according to VDI 2035 (oxygen concentration less than 0.2 g/m <sup>3</sup> , pH 8...9.5), glycol-water mixtures (max. 50 % glycol) |
| Water temperatures in the valve: | 2 to 130 °C, non-condensing                                                                                                                      |
| Weight:                          | depend on type (see chapter "Dimensions")                                                                                                        |
| Flow characteristic:             | equal percentage                                                                                                                                 |

Construction

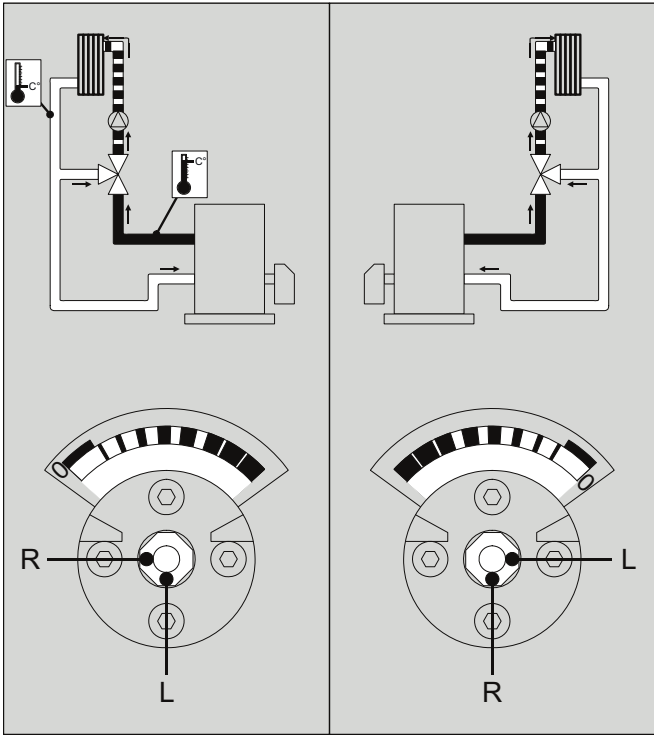
| Overview                                                                         | Components                      | Materials               |
|----------------------------------------------------------------------------------|---------------------------------|-------------------------|
|  | 1 Housing                       | Cast iron               |
|                                                                                  | <b>Not depicted components:</b> |                         |
|                                                                                  | 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 DRG has special control characteristics.

Installation Guidelines

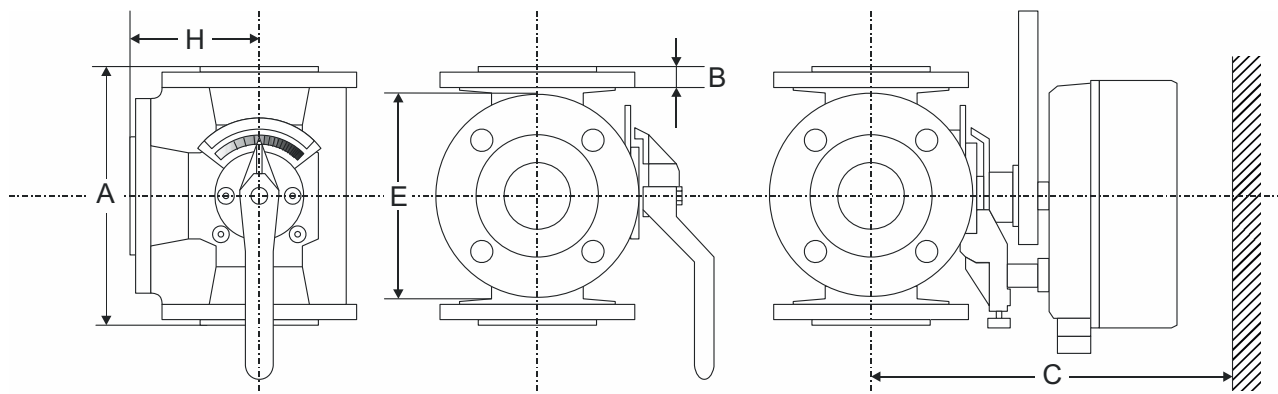
Installation Example



## Dimensions

### DR-GFLA

#### Overview

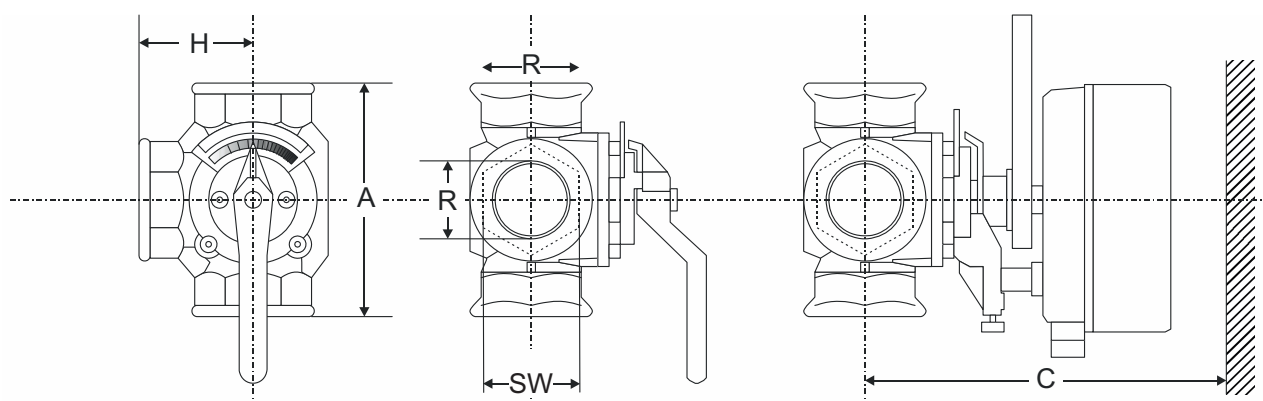


| DN  | A   | B  | C   | E   | H   | Net weight | Item No.   |
|-----|-----|----|-----|-----|-----|------------|------------|
| 20  | 140 | 15 | 230 | 90  | 70  | 3.5 kg     | DR20GFLA   |
| 25  | 150 | 15 | 230 | 100 | 75  | 4.0 kg     | DR25GFLA   |
| 32  | 160 | 17 | 240 | 120 | 80  | 6.6 kg     | DR32GFLA   |
| 40  | 170 | 16 | 240 | 130 | 85  | 7.1 kg     | DR40GFLA   |
| 50  | 190 | 16 | 250 | 140 | 95  | 9.8 kg     | DR50GFLA   |
| 65  | 210 | 16 | 270 | 160 | 105 | 12.3 kg    | DR65GFLA   |
| 80  | 250 | 18 | 270 | 190 | 125 | 21.4 kg    | DR80GFLA   |
| 100 | 270 | 18 | 290 | 210 | 135 | 26.5 kg    | DR100GFLA  |
| 125 | 310 | 20 | 320 | 240 | 155 | 42.0 kg    | DR125GFLA  |
| 150 | 330 | 20 | 325 | 264 | 165 | 49.0 kg    | DR150GFLA  |
| 200 | 390 | 22 | 365 | 320 | 195 | 78.0 kg    | DR200GFLA1 |
| 200 | 390 | 22 | 365 | 320 | 195 | 78.0 kg    | DR200GFLA  |

Note: All dimensions in mm unless stated otherwise.

### DR-GMLA

#### Overview



| DN | A   | C   | SW | H  | R      | Net weight | Item No.   |
|----|-----|-----|----|----|--------|------------|------------|
| 15 | 110 | 230 | 41 | 55 | 1/2"   | 2.2 kg     | DR15-2GMLA |
| 15 | 110 | 230 | 41 | 55 | 1/2"   | 2.2 kg     | DR15GMLA   |
| 20 | 110 | 230 | 46 | 55 | 3/4"   | 2.3 kg     | DR20GMLA   |
| 25 | 115 | 230 | 50 | 58 | 1"     | 2.4 kg     | DR25GMLA   |
| 32 | 140 | 240 | 60 | 70 | 1 1/4" | 4.1 kg     | DR32GMLA   |
| 40 | 150 | 240 | 65 | 75 | 1 1/2" | 4.3 kg     | DR40GMLA   |

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     |
| DN 15  | 2.0        | 100          | 10                  | DR15-2GMLA      | -          |
| DN 15  | 4.0        | 100          | 10                  | DR15GMLA        | -          |
| DN 20  | 6.3        | 100          | 10                  | DR20GMLA        | DR20GFLA   |
| DN 25  | 10         | 100          | 10                  | DR25GMLA        | DR25GFLA   |
| DN 32  | 16         | 100          | 10                  | DR32GMLA        | DR32GFLA   |
| DN 40  | 25         | 100          | 20                  | DR40GMLA        | DR40GFLA   |
| DN 50  | 40         | 100          | 20                  | -               | DR50GFLA   |
| DN 65  | 63         | 100          | 20                  | -               | DR65GFLA   |
| DN 80  | 100        | 100          | 30                  | -               | DR80GFLA   |
| DN 100 | 160        | 100          | 30                  | -               | DR100GFLA  |
| DN 125 | 250        | 70           | 30                  | -               | DR125GFLA  |
| DN 150 | 630        | 50           | 30                  | -               | DR150GFLA  |
| DN 200 | 1000       | 50           | 40                  | -               | DR200GFLA1 |
| DN 200 | 1600       | 50           | 40                  | -               | DR200GFLA  |

### Accessories

#### Overview associated actuators

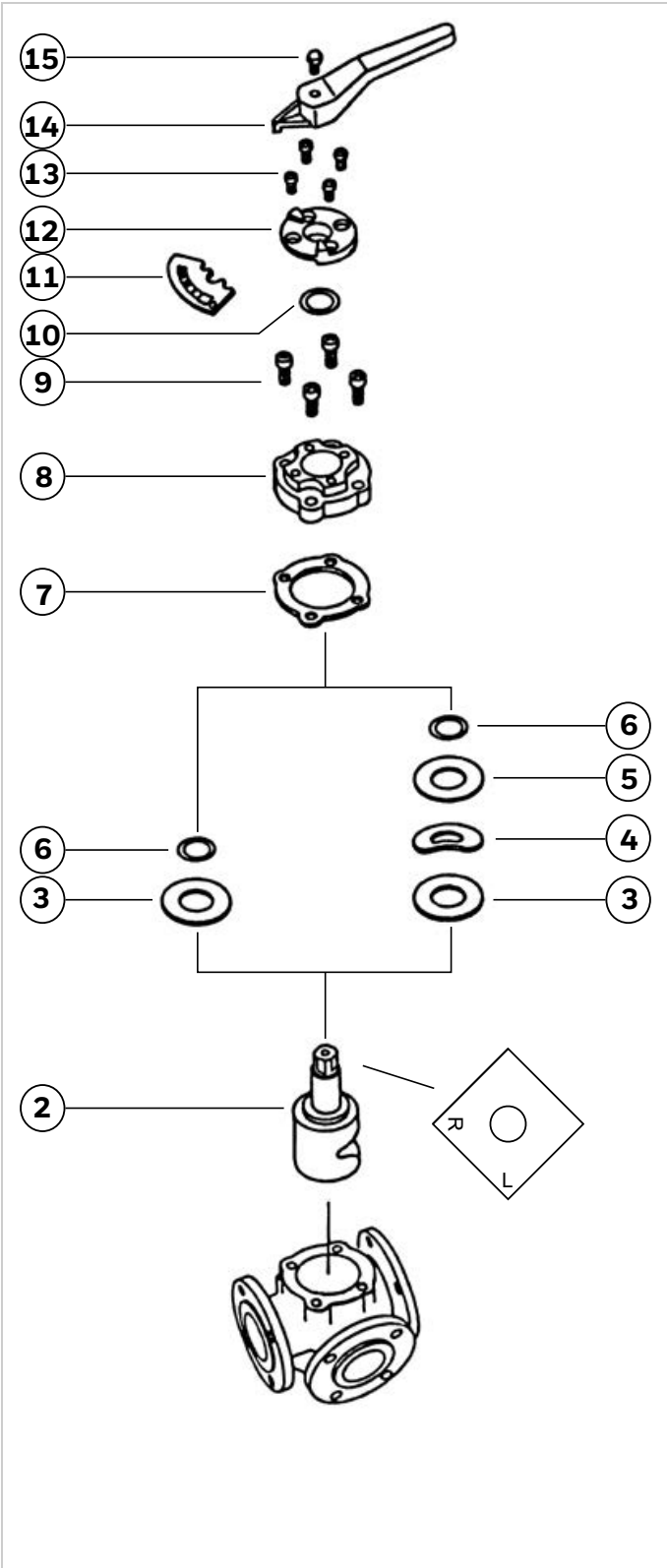
| Operation              | Control signal          |                                  |                                      |
|------------------------|-------------------------|----------------------------------|--------------------------------------|
|                        | 230 V AC, Floating      | 24 V AC, Floating                | 24 V AC/DC 0/2...10V                 |
| Floating or Modulating | VMM20<br>VMM30<br>VMM40 | VMM20-24<br>VMM30-24<br>VMM40-24 | VRM10N<br>VRM20N<br>VRM30N<br>VRM40N |

|                                                                                     | Description |                                                                                 | Torque (Nm) | Voltage    | Item No.  |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------|-------------|------------|-----------|
|                                                                                     | VMM         | Actuator: 3-point (floating)<br>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<br>rotating, 90° | 10          | 24 V AC/DC | VRM10N    |
|                                                                                     |             |                                                                                 | 20          |            | VRM20N    |
|                                                                                     |             |                                                                                 | 30          |            | VRM30N    |
|                                                                                     |             |                                                                                 | 40          |            | VRM40N    |
|                                                                                     |             |                                                                                 |             |            |           |

Spare Parts

Rotary valve DRG, 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 <sub>VS</sub> 2.5) | 030000404 |
|                                     |                                                       | DN15 (k <sub>VS</sub> 4.0) | 030000099 |
|                                     |                                                       | DN20                       | 030000099 |
|                                     |                                                       | DN25                       | 030000121 |
|                                     |                                                       | DN32 - DN40                | 030000100 |
|                                     |                                                       | DN50                       | 030000101 |
|                                     |                                                       | DN65                       | 030000102 |
|                                     |                                                       | DN80                       | 030000103 |
|                                     |                                                       | DN100                      | 030000104 |
|                                     |                                                       | DN125                      | 030000387 |
|                                     |                                                       | DN150                      | 030000389 |
|                                     |                                                       | DN200                      | 030000496 |
| 14, 15                              | Rotary lever                                          |                            |           |
|                                     |                                                       | DN15 - DN65                | 030000115 |
|                                     |                                                       | DN80 - DN200               | 030000098 |
| 11                                  | Scale                                                 |                            |           |
|                                     |                                                       | DN15 - DN65                | 030000117 |
|                                     |                                                       | DN80 - DN125               | 030000123 |
| 16                                  | Mounting bracket                                      |                            |           |
|                                     |                                                       |                            | 030000302 |
| 17                                  | Adjusting lever for DR-, ZR-, DRU-, DRR mixing valves |                            |           |
|                                     |                                                       |                            | 030000518 |
| 18                                  | Coupling for DR-, DRG-, ZR- mixing valve              |                            |           |
|                                     |                                                       |                            | 030000526 |

\* Numbers of components depending on size

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