

ROTARY MOTORIZED VALVES  
**MIXING VALVE**  
**SERIES 5MG**



Internal thread

5MG, DN 25–32, brass, PN 10. Internal thread connection.

**OPERATION**

The ESBE series 5MG is a compact mixing valve with five ports. It is made of brass for use in heating installations.

Series 5MG is normally equipped with a knob for manual operation and is also suitable for automatic control. This is a simple operation when using the ESBE actuator 92P4 or 95-270M (article number 1255 04 00, 1205 33 00), or controllers series 90C.

Series 5MG is available in dimensions DN 25–32 with internal thread.

The scale is graded on both sides and can be turned, allowing a choice of mounting positions. Operation angle = 270°.

**FUNCTION**

When used as mixing valve it has four inlets to be connected so that they draw heat from different layers in a storage tank or from different heat sources.

When used as a diverting valve it has four outlets to be connected so that they feed different layers in a storage tank.

**SERVICE AND MAINTENANCE**

All major parts are replaceable. The shaft seal consist of two o-rings, one of which can be replaced without the need for draining down the system or dismantling the valve. However, before doing so, the system must be depressurized.

**INSTALLATION EXAMPLES**

All the examples of installations can be reversed. The valve position plate is graded on both sides and should at the installation be fitted in the correct position as shown in the instruction for installation.

**VALVE 5MG DESIGNED FOR**

- Heating
- Comfort cooling
- Potable water
- Floor heating
- Solar heating
- Ventilation
- Zone
- District hot water
- District heating
- District cooling

**SUITABLE ACTUATORS**

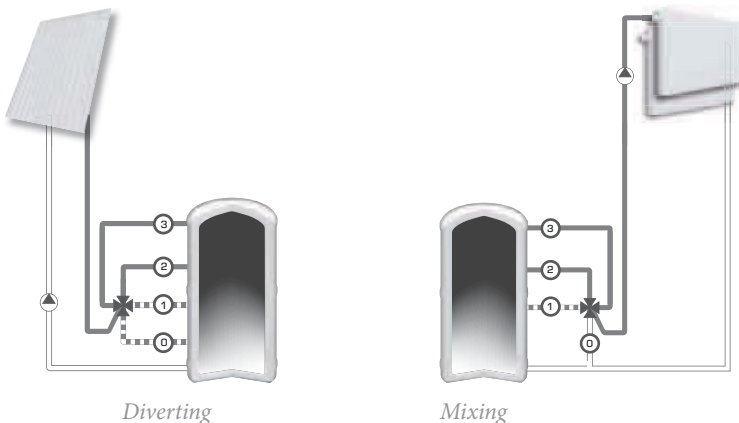
The valve series 5MG may most easily be fitted with ESBE actuators:

- Series 90, type 92P4 and 95-270M
- Series 90C

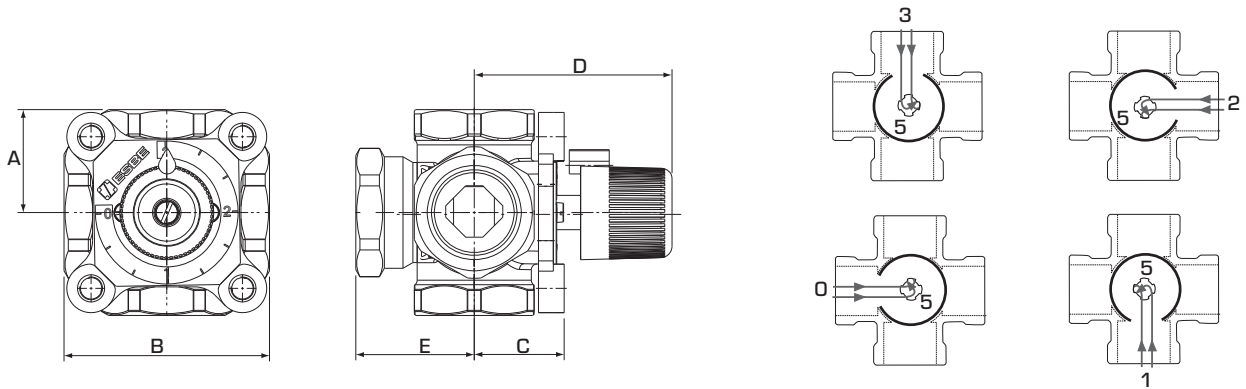
**TECHNICAL DATA**

Pressure class: \_\_\_\_\_ PN 10  
 Media temperature: \_\_\_\_\_ max. +130°C  
 \_\_\_\_\_ min. -10°C  
 Differential pressure drop: \_\_\_\_\_ max. 100 kPa  
 Torque: \_\_\_\_\_ max. 3Nm  
 Leakrate in % of flow: \_\_\_\_\_ see table  
 Rangeability Kv/Kv<sup>min</sup>: \_\_\_\_\_ 100  
 Connections: \_\_\_\_\_ Internal thread, EN 10226-1

Material  
 Valve body, spindle and slide: \_\_\_\_\_ Brass CW 614N  
 Bushing: \_\_\_\_\_ Plastic  
 Cover plate: \_\_\_\_\_ Zinc  
 O-rings: \_\_\_\_\_ EPDM



# MIXING VALVE SERIES 5MG



The flat-sided spindle top  
(as well as the indicator of the knob)  
points towards the opening in the sleeve.

## SERIES 5MG, INTERNAL THREAD

Art. No.	Reference	DN	Kvs*	Connection	A	B	C	D	E	Weight [kg]	Leakrate in % of flow**
1100 52 00	5MG 25	25	8	Rp 1"	36	72	32	70	41	0.9	0.3
1100 53 00	5MG 32	32	18	Rp 1 1/4"	44	88	38	77	47	1.2	0.2

\* Kvs-value in m<sup>3</sup>/h at a pressure drop of 1 bar. See also flow chart on page 32. \*\* Differential pressure 50 kPa