

ROTARY MOTORIZED VALVES

# INSULATION SHELL SERIES VRI100

ESBE Insulation Shell Series VRI100 for insulation of ESBE valve Series VRG100, VRG200, VRG300 and VRB100. The shell is designed according to the German directive EnEv2009 and reduces heat losses with 65%, compared to an uninsulated system.

### OPERATION

The ESBE series VRI100 is the number one choice for insulation of ESBE valve Series VRG100, VRG200, VRG300 and VRB100.

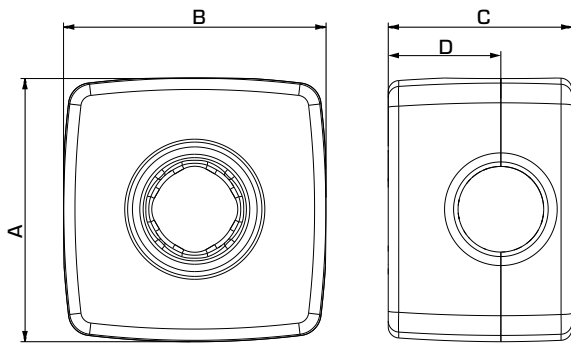
The insulation shell is designed according to EnEV2009 and offers a tight seal around the valve to avoid air-circulation and risk of heat losses. For example; a system with 30 mm thick insulation will reduce the heat losses by 65% compared to an uninsulated system.

The shell is designed with a strong self-locking function, i.e. no need for extra accessories, like tape or springs to keep the two shells together.

The insulation is designed so that any actuator is positioned outside the insulation to avoid overheating of the actuator itself.

### VERSIONS

ESBE VRI100 insulation shells are available in sizes DN15/20, DN25, DN32 and DN40 and designed for 3-way valves. If insulation of a 4-way valve is required a simple cut is needed to open the prepared 4:th opening.



VRI100



### INSULATION SHELL VRI100 DESIGNED FOR

- Heating
- Solar heating
- Potable water
- Ventilation
- Floor heating
- Zone

### SUITABLE MIXING VALVES

The insulation shell series VRI100 suits ESBE rotary valves:

- Series VRG100
- Series VRG300
- Series VRG200
- Series VRB100

### TECHNICAL DATA

Media temperature: \_\_\_\_\_ max. +130°C  
 \_\_\_\_\_ min. -20°C  
 Ambient temperature: \_\_\_\_\_ max. +130°C  
 \_\_\_\_\_ min. -20°C  
 Material: \_\_\_\_\_ EPP black 35g/l  
 λ coefficient: \_\_\_\_\_ 0,035 W/mK



EnEV2014

Line	Type of piping / fitting	Min. thickness of the insulation layer, related to a heat conductivity of 0,035 W/mK
1	Internal diameter up to 22 mm	20 mm
2	Internal diameter over 22 mm up to 35 mm	30 mm
3	Internal diameter over 35 mm up to 100 mm	same as internal diameter
4	Internal diameter over 100 mm	100 mm
5	Piping and fitting in accordance with Lines 1 to 4 in wall and ceiling openings, in the intersection area of pipelines, at line connection points, in central network distributors	½ the requirements of Lines 1 to 4
6	Central heating piping in accordance with Lines 1 to 4, which were laid after January 31, 2002 in components between heated spaces of different users	½ the requirements of Lines 1 to 4
7	Pipelines in accordance with Line 6 in the floor construction	6 mm
8	Cooling distribution and cold water pipes and fittings of air handling and air conditioning systems	6 mm

Source: EnEV2009, Appendix 1, Table 5

### SERIES VRI100

Art. No.	Reference	DN	A	B	C	D	Note
16103800	VRI111	15/20	95	95	72	40	
16103900	VRI111	25	117	117	84	50	
16104000	VRI111	32	120	120	92	55	
16104100	VRI111	40	160	160	114	70	