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.

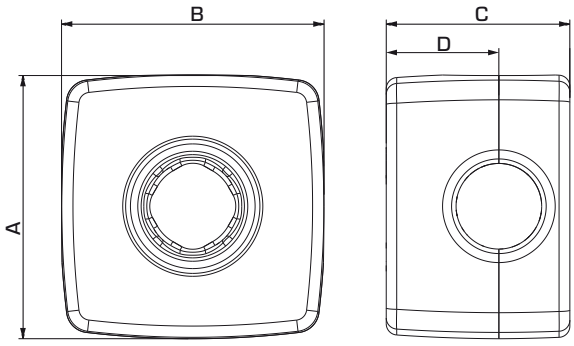
The insulation shell is designed according to EnEV2009 and offers a tight seal around the valve to avoid air-circulation and risk of heat losses. For example; a system with 30 mm thick insulation will reduce the heat losses by 65% compared to an uninsulated system.

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

## SUITABLE MIXING VALVES

The insulation shell series VRI100 suits ESBE rotary valves:

- ● Series VRG100
- ● Series VRG200
- ● Series VRG300
- ● 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 |
|---|---|---|---|---|---|---|---|
| 1610 38 00 | VRI111 | 15/20 | 95 | 95 | 72 | 40 | |
| 1610 39 00 | VRI111 | 25 | 117 | 117 | 84 | 50 | |
| 1610 40 00 | VRI111 | 32 | 120 | 120 | 92 | 55 | |
| 1610 41 00 | VRI111 | 40 | 160 | 160 | 114 | 70 | |


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