

CHECK VALVE SERIES VCA100



ESBE check valves are designed for lowest possible pressure drop combined with a low opening pressure.

OPERATION

ESBE check valve series VCA is constructed for a low pressure reduction combined with low opening pressure. The valve's function is independent of position with the lowest opening pressure in a vertical pipe with the flow from above.

The valve is intended for internal use in pipes 15x1 or 22x1.

MEDIA

Maximum 50% glycol for freezing protection and oxygen absorbing compounds are allowed as additives. As both the viscosity and the thermal conduction are affected when glycol is added to the system water, this fact has to be considered when dimensioning the valve.

A good rule is to choose one size higher Kv-value when 30 - 50% glycol is added. A lower concentration of glycol may be disregarded.

TECHNICAL DATA

Max. working temperature: _____ 110°C

Material

Body - DN15: _____ Dezincification resistant brass, DZR*

- DN 20: _ Dezincification resistant brass, DZR*/Copper

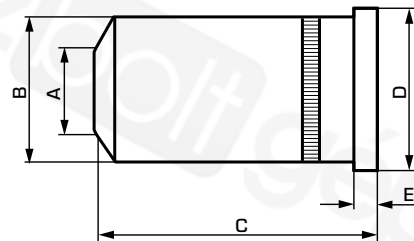
Plug: _____ Dezincification resistant brass, DZR*

Spring resort: _____ Plastic

Spring: _____ Stainless steel

O-ring: _____ EPDM

* Suitable for drinking water applications



SERIES VCA100

| Art. No. | Reference | DN | Kvs* | A | B | C | D | E | Opening pressure [kPa] | | | Weight [kg] |
|------------|-----------|----|------|------|------|------|------|-----|------------------------|-----|-----|-------------|
| | | | | | | | | | ↑ | → | ↓ | |
| 3650 01 00 | VCA100 | 15 | 1.5 | 8.0 | 12.8 | 27.0 | 14.5 | 2.0 | 4.0 | 3.8 | 3.5 | 0.01 |
| 3650 04 00 | | 20 | 4.0 | 12.0 | 19.8 | 30.0 | 21.5 | | 2.5 | 2.3 | 2.0 | 0.02 |

*Kvs-value m³/h at a pressure drop of 1 bar.