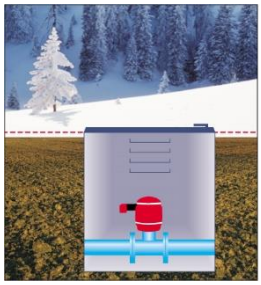
A.R.I. Aquestia

THERMO-PROTECTION
for
Combination Air Valve model D-040

General information:
The THERMO-PROTECTION is used to isolate the airvalve and the liquid inside the airvalve against different temperature levels between the pipeline and the surrounding atmosphere.
If the THERMO-PROTECTION is used as an „anti-freeze-device“ the input of thermal energy into the air valve by liquid-exchange between pipeline and air valve is compulsory.
Only by a sufficient liquid exchange an anti-freeze protection is guaranteed at low temperatures (well approved down to – 20°C).
The level of the liquid-exchange within the air valve is dependent on the flow-velocity of the pipeline on which the air valve is installed, as well as the distance between the pipeline and the body of the air valve.
The higher the flow rate in the pipeline and the closer the air valve is installed on the pipeline, the bigger the liquid-exchange and thereby the input of thermal energy into the air valve will be.
In case the THERMO-PROTECTION is insufficient to guarantee an antifreeze-protection itself, an additional heating (e.g. electrical heating/ hot wires) must be taken into account.

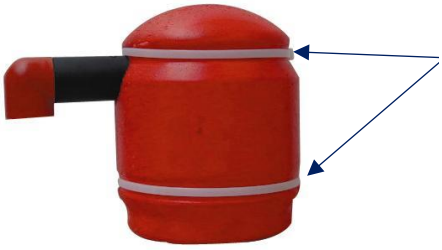
Installation:
The THERMO-PROTECTION is made from two molds that encase the D-040 (with drainage-extension!). While pressing the two molds around the body of the D-040 please assure that the male and female sealing-outlines are well fitted into another.
Finally the two molds have to be fixed to one another by cable-strips, tape, chains, O-Rings, etc. (no scope of supply!). For dismantling the THERMO-PROTECTION, just take off the a.m. fixation and pull the two molds apart.



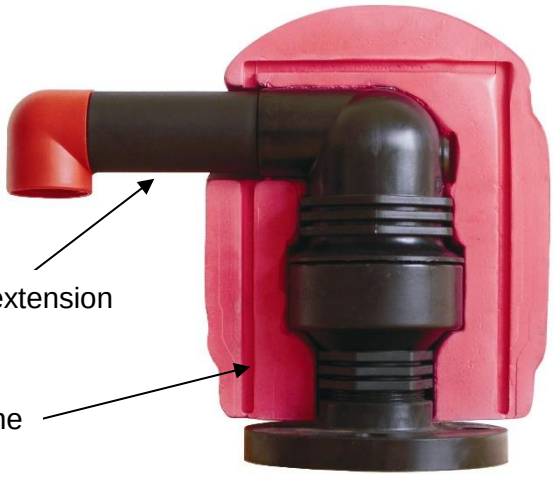
- The air valve should be installed in manhole.
- The air valve should be mounted as close as possible to the main pipe.

Material specification:

material:	foamed PU (foamed organic isolation material)
temp. range:	- 30°C <> +80 °C [-22°F <> +170°F
density:	ca. 30 kg/m³ [0.3007 lb/gal]
conductivity:	ca. 0,20 W/mK [0.1156 BTU/h·ft·°F]
flame-class:	B2



Fixation



Drainage-extension

Sealing-outline

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