

Application:

The Oventrop double regulating and commissioning valves with flow display “Hycoflow VTB” are installed in the risers of heating and cooling systems with closed circuits (e.g. central heating systems, earth probes, underfloor heating systems, fan coil units, chilled ceilings and fan convectors) and serve to achieve a hydronic balance between the various circuits of the system. The set volume flow can be directly read off and the riser can be isolated with the help of the ball valve (position “0”). The pipework has to be flushed thoroughly before installation of the double regulating and commissioning valve. The installation of an Oventrop “Y” type strainer, item no. 11210.. is recommended.

Technical data:

Max. operating temperature t_s : 100 °C
 Min. operating temperature t_s : 0 °C
 Max. operating pressure ps: 10 bar (1000 kPa) (PN 10)
 Fluid: Water or water and ethylene/propylene mixtures (max. 50%),
 pH value 6.5 – 10

Materials:

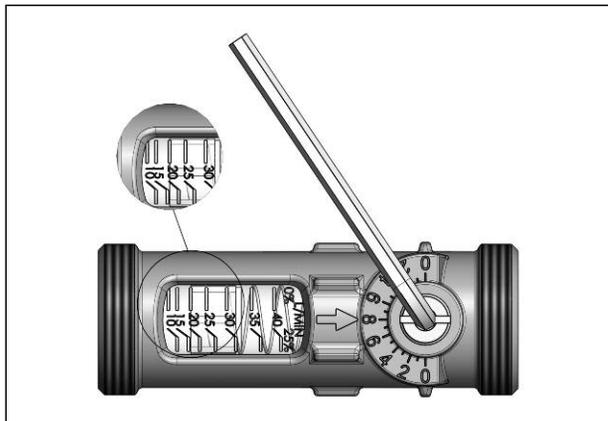
Brass body, viewing window and inner parts made of high-performance polymer, seals made of EPDM and PTFE.

Function:

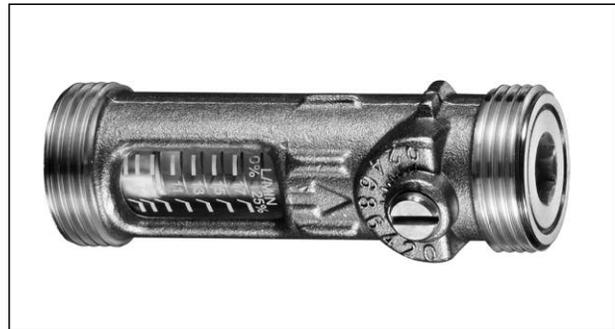
The double regulating and commissioning valve “Hycoflow VTB” featuring an infinitely adjustable ball valve and a flow display is used for hydronic balancing and the isolation of risers or earth probes.

Setting of the volume flow:

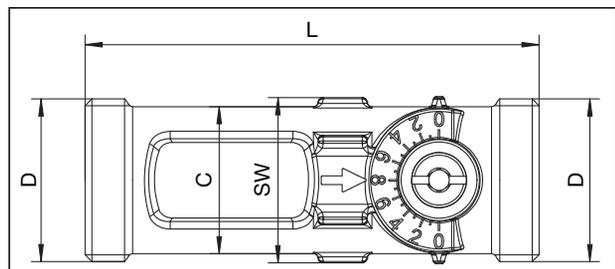
Setting of the volume flow at the double regulating and commissioning valve with flow display “Hycoflow VTB” is carried out with the help of a slot screwdriver or, as illustrated, a 4 mm Allen key (DN 25, DN 32). The set volume flow is displayed at the viewing window and can be directly read off. The scale is divided into two sections: one for water (%) and one for a 25 % water and glycol mixture (25 %). The volume flow is read off at the lower edge of the float. The illustration shows a volume flow of 20 l of water per hour or approx. 16 l of water and glycol mixture per hour.



Setting of the volume flow



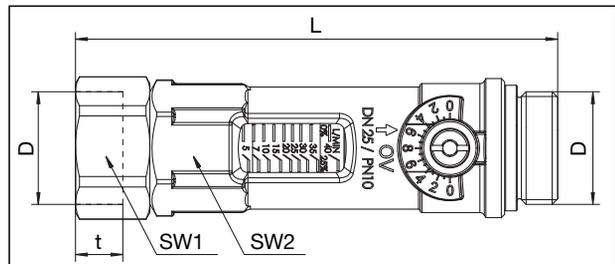
“Hycoflow VTB”



Item no.:	L	D	C	SW*	Flow range [l/min.]	k_{vs}
1060906	80	G 3/4	23	23	4-17	3.0
1060908	93	G 1	23	30	10-40	8.3
1060910	109	G 1 1/4	23	36	20-70	13.7

Dimensions

*SW = spanner size



Item no.:	L	D	SW1*	SW2*	Flow range [l/min.]	k_{vs}
1060925	143	G 1	38	36	5-40	5.5

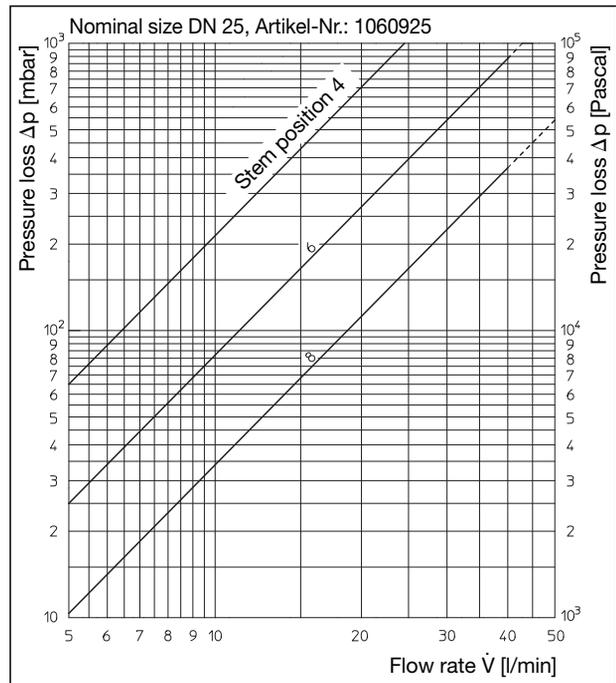
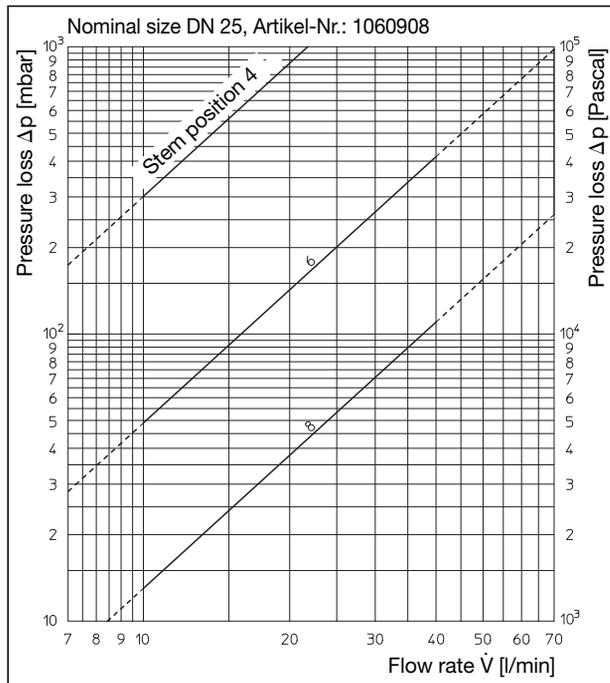
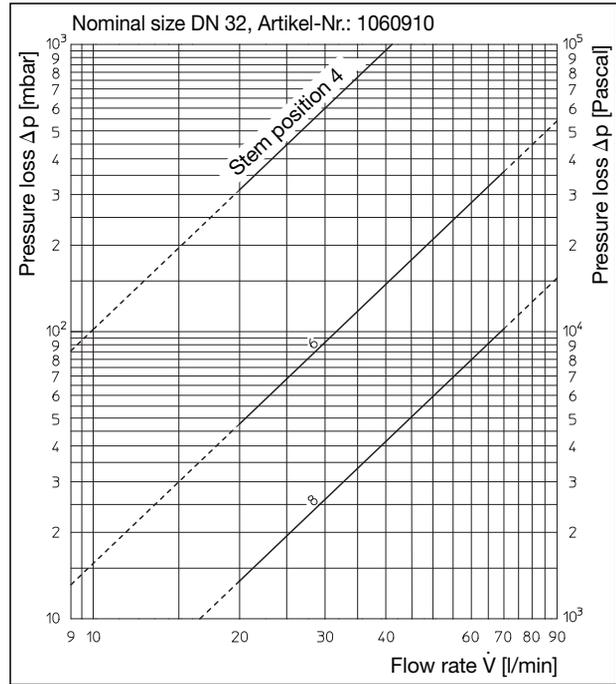
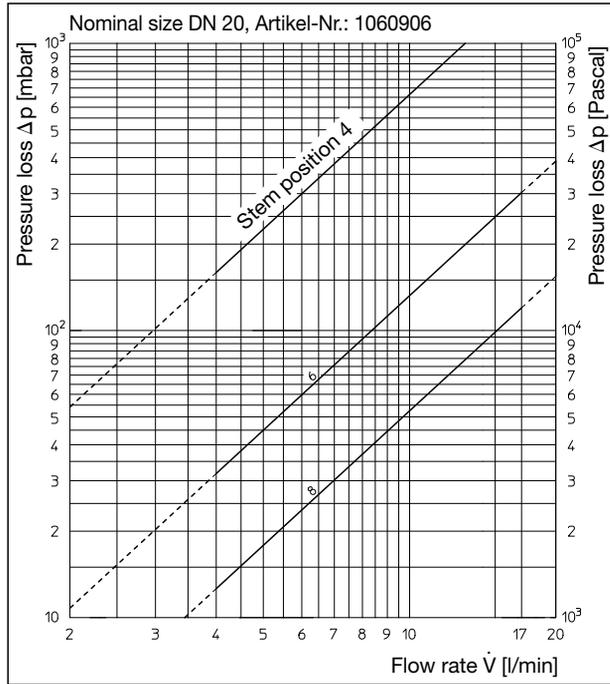
Dimensions

*SW = spanner size

Installation:

- The direction of flow has to conform to the direction of the arrow on the valve body.
- The valve can be installed in any position.
- Do not use any greasing agents or oils for the installation, as these can destroy the seals.
- Any dirt particles or grease or oil residues must be flushed out before the valve is installed.
- Any tension which could be transferred through the pipework must be avoided.
- When choosing the operating fluid, the latest technical status has to be considered (e.g. VDI 2035).
- The correction factors of the manufacturers of the antifreeze liquid have to be considered when setting the volume flow.
- After installation, check all installation points for leaks.

Flow charts for double regulating and commissioning valves “Hycoflow VTB”:



Correction factors for mixtures of water and glycol

When antifreeze liquids are added to the heating water, the values given in the chart must be multiplied by the correction factor f.

OVENTROP GmbH & Co. KG
 Paul-Oventrop-Straße 1
 D-59939 Olsberg, Germany
 Telephone +49(0)2962 82-0
 Fax +49(0)2962 82-450
 E-Mail mail@oventrop.de
 Internet www.oventrop.de

For an overview of our global presence visit www.oventrop.de

Subject to technical modification without notice.

Product range 3
 ti 309-EN/10/MW
 Edition 2015

