Application:

Oventrop bypass isolating valve for potable water softening installations PN 10 for industry, trade and domestic use. Max. water temperature 90 °C.

Description:

The bypass isolating valves are used as combined units for water softeners with integrated bypass mixing valve. They feature 2 valves (1 and 2) which allow for the isolation of the inlet and outlet of the softener so that it may be removed for maintenance or similar work. During this time, untreated water is supplied via the bypass valve. Contrary to item no. 6105108, the bypass isolating valve item no. 6105008 is equipped with a bypass valve (3) preventing unauthorized opening of the valve which can only be operated with the help of a socket spanner instead of a handwheel.

The bypass isolating valves are equipped with an extraction valve which allows for water to be drawn for the determination of water hardness. Moreover, the valves possess a G ½ plugged orifice for the connection of a discharge valve allowing untreated water to be drawn (e.g. for the garden). Both valves may be connected to either side of the bypass isolating valves.

The body and the inner parts are made of brass and the soft seal is made of a special buna N composition.

Advantages:

Compact unit combining all functions required for the connection a water softener with integrated bypass mixing valve.

Models:	Item no.:
Bypass isolating valve PN 10, Rp 1 F x F, G 1 M x M Bypass valve in lockshield configuration	6105008
Bypass isolating valve PN 10, Rp 1 F x F, G 1 M x M Bypass valve with handwheel	6105108

k_V values:

Valves 1 and 2 closed, valve 3 open:
Item no.: 6105008 k_V value = 7.2
Item no.: 6105108 k_V value = 6.4

Valves 1 and 2 open, valve 3 closed:
Item no.: 6105008 k_V value = 8.8
Item no.: 6105108 k_V value = 8.8

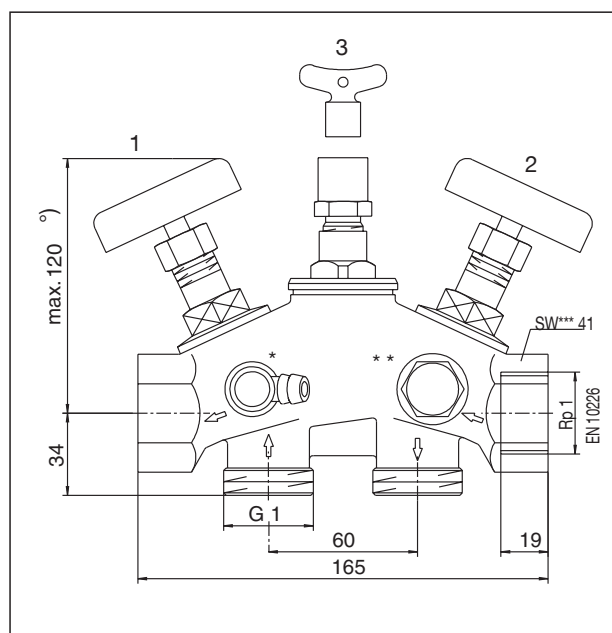The k_V value is the volume flow in m³/h with a pressure drop of 1 bar.

Calculation of the flow rate (example):

$$Q = k_V \times \sqrt{\Delta p}$$

$k_V = 8.8$ $\Delta p = 0{,}1$ bar $Q = 8.8 \times \sqrt{0.1}$ m³/h $= 2.78$ m³/h

Dimensions

* Extraction valve for the determination of the water hardness
** Plugged orifice G ½ for the connection of a discharge valve
*** SW = Spanner size
°) Bypass valve with handwheel: max. 132 mm

Accessories:

Bonnet, flat sealing
Item no.: 6109551

Bonnet with O-ring
Brass
Item no.: 6109552

Coupling
DN 25 G 1¼ x R 1
Item no.: 6100508

S-type coupling
DN 20 G 1¼ x G ¾
Item no.: 6100606

DN 25 G 1¼ x G 1
Item no.: 6100608

Flexible hose
WA-NIRO, 600 mm long
DN 25 G 1¼ (collar nut) x G 1 (M)
Item no.: 6100851

DN 25 G 1 (collar nut)   x G 1 (M)
Item no.: 6105751

Subject to technical modifications without notice.

Product range 8
ti 38-EN/10/MW
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