



#### Application:

Oventrop bypass mixing valve DN 32, G 1 1/4, for potable water softening installations PN 10 for industry, trade and domestic use. Max. water temperature 90 °C, ACS certified.

#### Description:

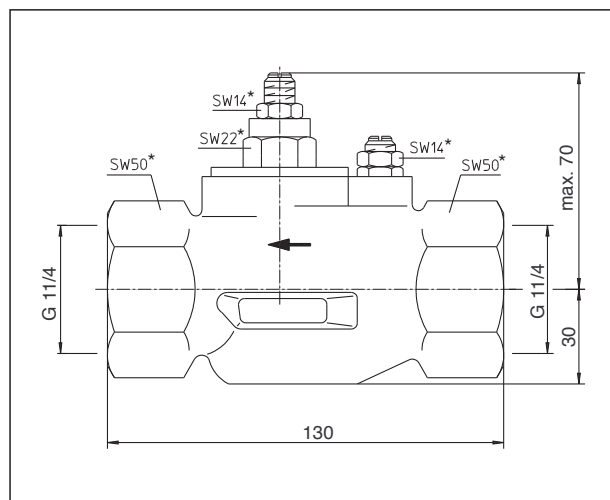
Bypass mixing valves are automatic mixing valves for potable water softening installations. The model described here was especially designed for installations with higher water consumption. The bypass mixing valve is installed in the bypass pipe.

Once it has been set, the bypass mixing valve automatically maintains the hardness of the mixed water irrespective of consumption and pressure variations. The hardness of the mixed water is only set once, during installation. If the hardness of the untreated water changes significantly (e.g. if the water authority supplies a different type of water), it is of course necessary to readjust not only the water softener but also the bypass mixing valve.

The body of the bypass mixing valve is made of corrosion resistant brass according to DIN 50930-6. All other components are made of brass, plastic and stainless steel. The soft seal is made a special buna N composition.

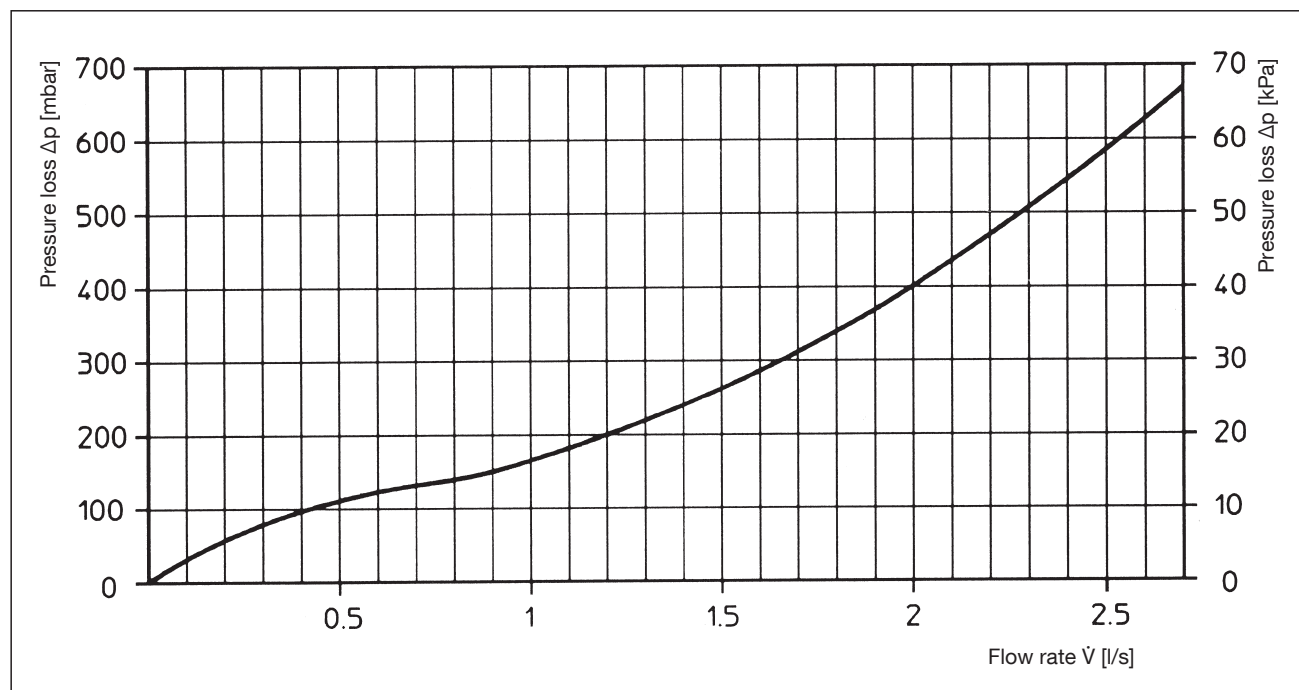
The valve does not feature a dead zone.

Item no.: 6102010



Dimensions

\*SW = Spanner size



Pressure loss of the valve depending on the flow rate

**Function:**

The bypass mixing valve is installed in the bypass pipe of the water softener with the untreated water flowing in the direction of the arrow on the valve body.

This untreated water is mixed in the proportion required with the soft water flowing from the water softener. The required quantity of untreated water is set at the bypass mixing valve and the proportion of mixing is maintained irrespective of consumption.

In case of low water consumption, only a certain quantity of untreated water (depending on the setting) is added to the soft water via the bypass valve (5).

In case of increased consumption, the pressure loss of the water softener causes a differential pressure opening the valve disc (1). Depending on the setting, a larger or smaller quantity of untreated water is added to the soft water.

**Setting:**

The setting of the required hardness (normally 8.5° dH - German hardness) requires an adjustment which has to be carried out under working conditions as follows:

First of all, the main valve (1) is closed by loosening the counternut (2) and by screwing the stem (3) into the body until stop. After having unscrewed the counternut (4), the bypass valve (5) is adjusted in such a way that the required water hardness is reached. This is set with 10 - 20 % of the max. water consumption and locked by tightening the counternut (4).

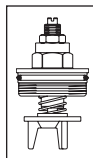
Finally, at the maximum consumption, the main valve (1) is opened by turning the stem (3) to the left until the required water hardness is reached again. Setting is locked by tightening the counternut (2).

**Note:**

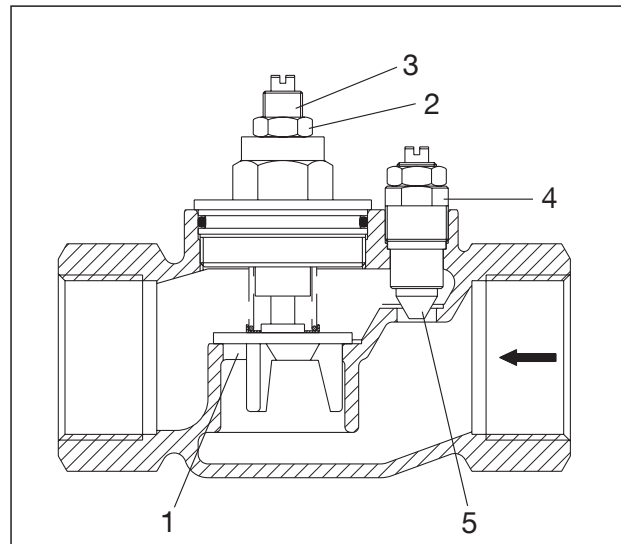
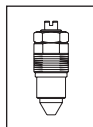
Oventrop also offers a DN 25 bypass mixing valve suitable for the direct connection to automatic water softeners. A separate technical data sheet is available for this model.

**Accessories:**

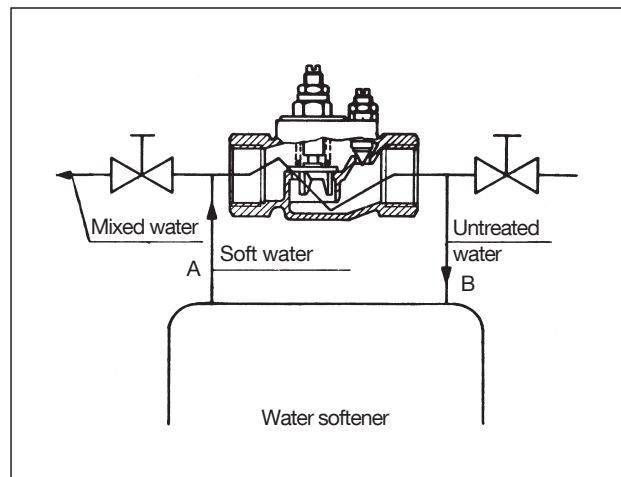
Brass regulating bonnet for setting of higher flow rates (bonnet with adjustment spindle, regulating insert and spring)  
Item no.: 6102053



Brass valve insert for setting of low flow rates  
Item no.: 6102051



Cut illustration



Installation example:

Do not draw any water from the circuit between points A and B (except for water sampling).