

# Bypass mixing valve size 1 1/4"

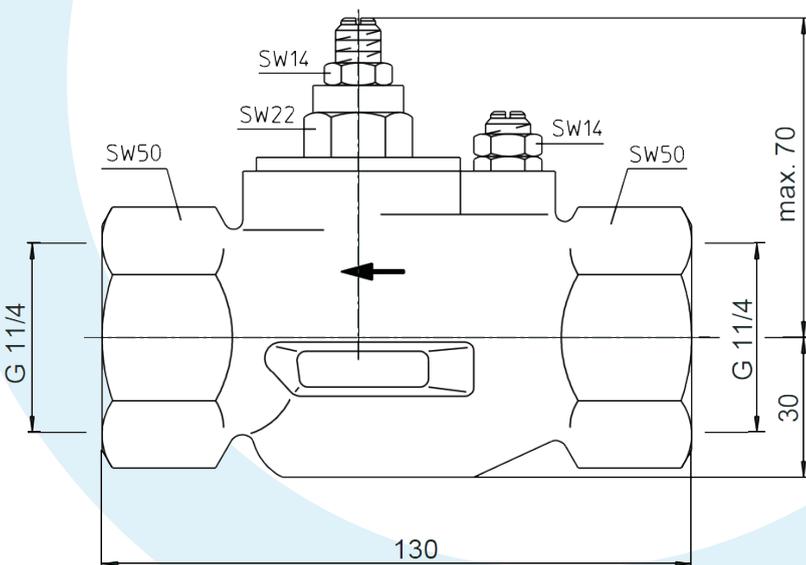
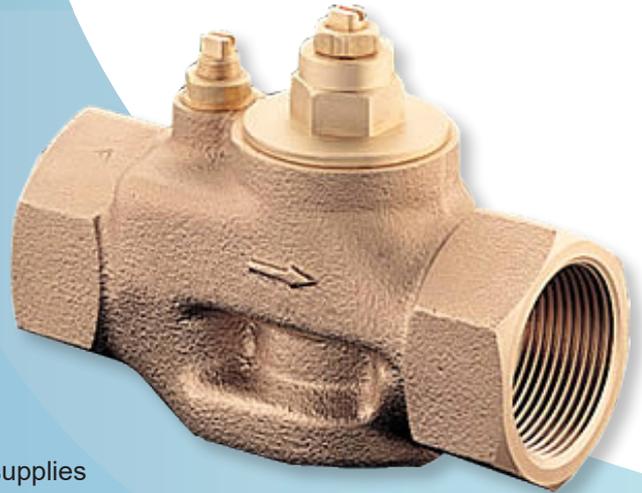


ION EXCHANGE

MOUNTING ACCESSORIES

BYPASS MIXING VALVE 1 1/4"

- 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 water is only set once, during installation. If the hardness of the untreated water changes significantly (e.g. 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 exceptionally corrosion-resistant bronze according to DIN 1705 standard. All other components are made of brass, plastic and stainless steel. The soft seal is made of a special buna N composition.



\*SW : spanner size

## APPLICATIONS

Potable water softening installations PN 10 for industry, trade and domestic use.

Max. water temperature 90 °C.

Observe minimum flow rate.

# Bypass mixing valve 1 1/4"

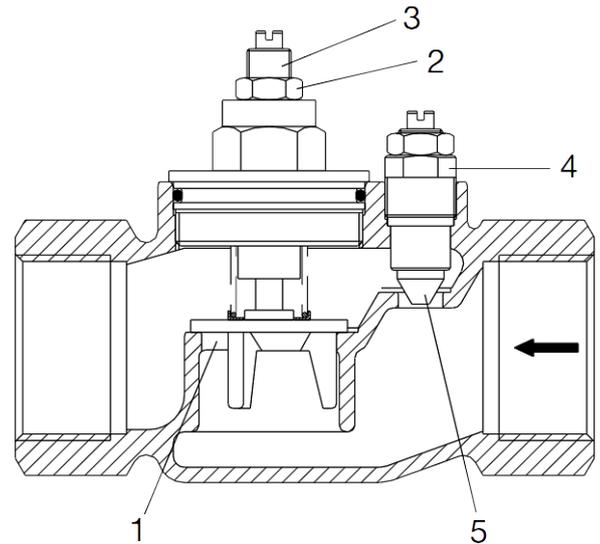
## FUNCTION

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 on the bypass mixing valve and the proportion of mixing is maintained irrespective of consumption.

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

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.



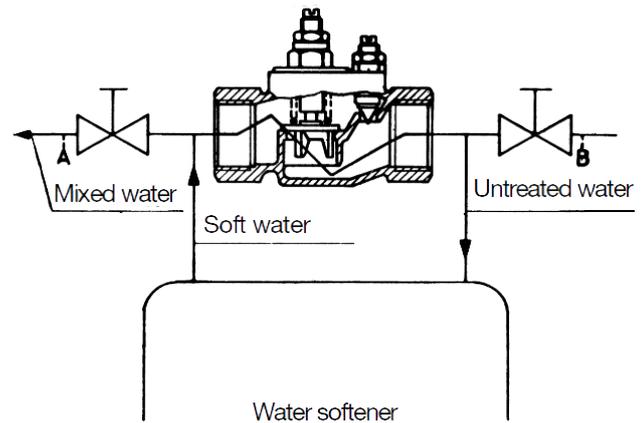
## SETTING

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

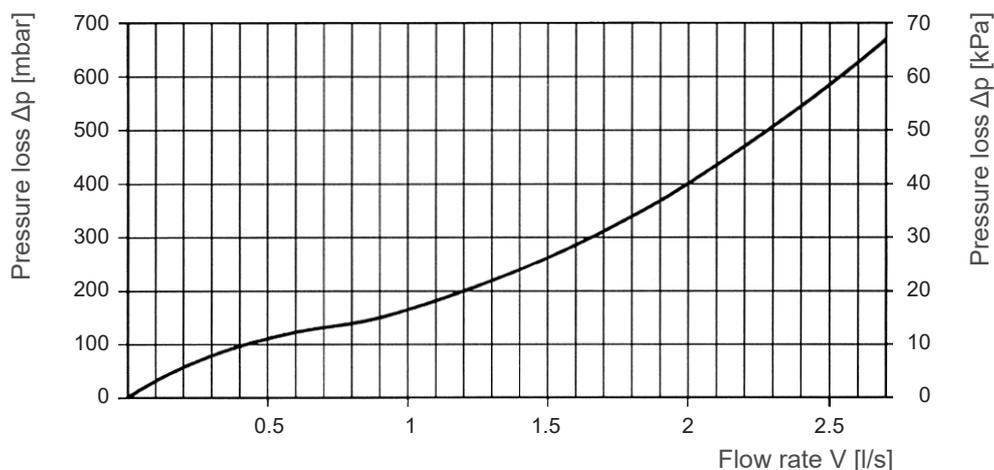
First of all, the main valve (1) is closed by loosening the counternut (2) and screwing the stem (3) into the body until stop. After having unscrewed the counternut (4), the bypass valve (5) is adjusted in such a way that the desired water hardness is reached. This is set with 10 - 20% of the max. water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

## Example of installation



## PRESSURE LOSS DEPENDING ON THE FLOW RATE



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