

KNV680 Safety mixer installation and maintenance

Area of application

KNV680 should be used to secure tempered water in emergency/eye showers.

(Picture A)

Installation

Installation must be done by a person who has industry authorization to do installation. Rinse the pipes clean, turn off the pressure and empty the pipes of water.

Installation according to current laws.

Picture ABC

Important! See the pictures ABC

- Safety mixer recommended use (Picture B)
- Safety mixer installation correctly to minimize damage.(Picture C)

Operation

The safety mixer's heat is set between 22-28 degrees Celsius.

To prevent burns, the KNV680 (anti-scald) has built-in safety that protects the user from burns. The protection is activated if the hot water temperature rises or if the cold water flow is closed.

The KNV680 works even if the hot water flow is restricted or closed.

The built-in safety device starts to operate if the hot water pressure exceeds more than 0.5 bar. If this happens, the KNV680 provides more cold water.

Operation and maintenance

Normally no maintenance is required but some wear may occur. Gaskets (O-rings), sensor element and the mixer sealing plug are easy to replace.

See picture D for spare parts for KNV680.

Warning!! Before repairing the safety mixer, turn off the water!

Hard water can cause limescale deposits which can cause sluggishness in the moving parts of the safety mixer. Cleaning the moving parts of the mixer will help restore full function of the safety mixer.

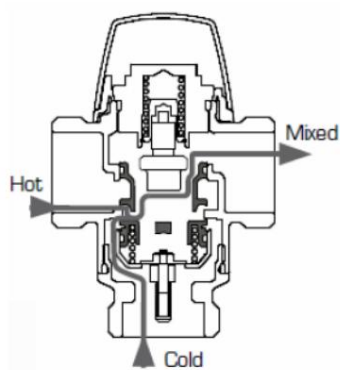
It may be necessary to clean the outlet or replace the thermostat.

Cleaning the mixer / or replacing parts, turn off the KV/VV flow.

- 1) See picture D. Remove the cover picture (1) and the parts picture (2–5)
- 2) Clean all internal parts of limescale deposits and any other dirt.
- 3) Clean all parts at the same time.
- 4) Reassemble the safety mixer. **Only silicone grease may be used.**

NOTE: KNV680 always provides cold water if the hot water flow is restricted. Always take into account all applicable laws and regulations.

Flow direction



Temperature and pressure

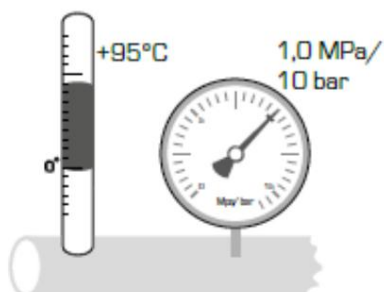
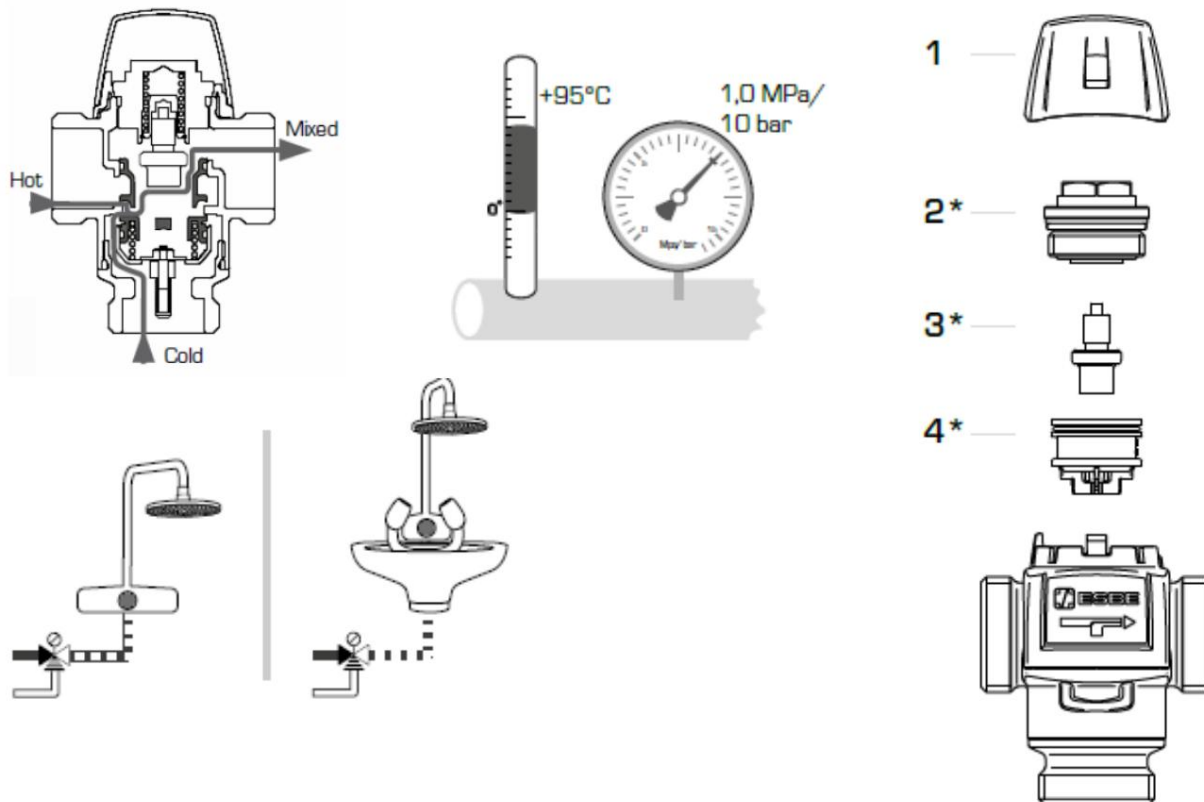
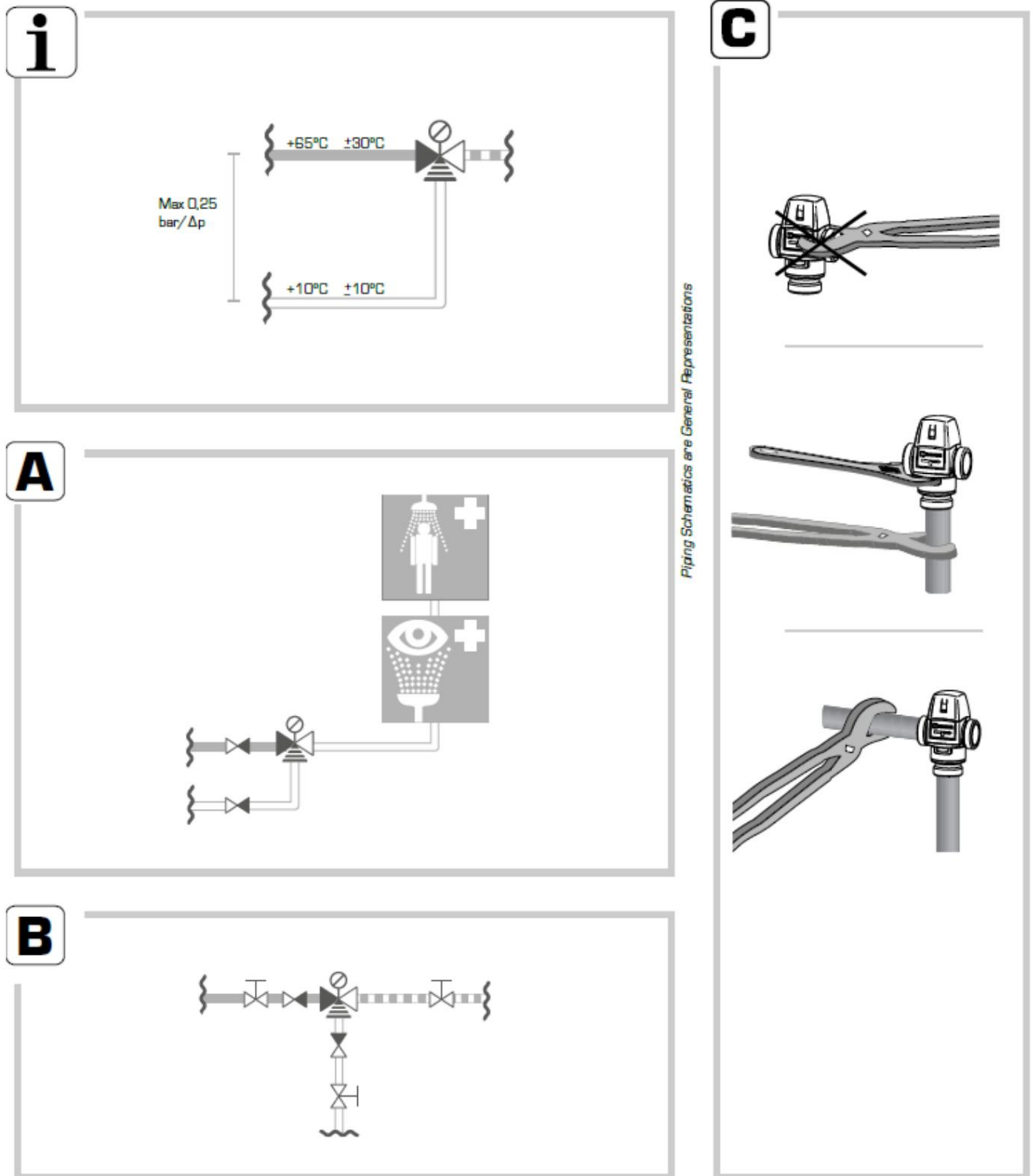


Figure D: Disassembling the mixer



* Spareparts

Picture ABC



KNV680 Thermostatic safety mixer for safety-and eye showers

The mixing valve is supplied with a set of connectors with non-return valves, which are installed on site. The inlet pipe dimensioning according to minimum flow of 130 l/min.

- Safety mixer temperature can be set 22-28 °C.
- Antiskald function protects the user if cold water is interrupted
- When hot water is interrupted, the cold flow continues with bypass function

TECHNICAL INFO

Flow capacity: Kvs 4,8	Width: A=84 mm + connectors 2 X 40 mm
Connectors: R1" male thread	Height: B+C=122 mm + connector 1 X 40 mm
Connector distance: 164 mm	Depth: D=56 mm



CAPACITY DIAGRAM KNV680

