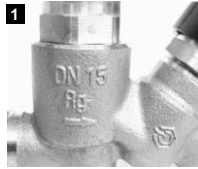


**Thermostatically controlled
circulation pump**



Installation instructions



1 Install the valve according to the flow direction arrow (1). When installing, ensure there is sufficient space to assemble and disassemble the thermal insulation shells (2).



To increase the flow rate in hydraulically unfavourable lines located at a distance from the pump, install a valve of the next largest nominal width or a circuit control valve in the last circulation line. This can be used to influence the temperature level within the entire hot water circulation system during disinfection.

Managing the settings



3 The individual control cartridges are supplied with the indicated factory settings. The throttle point is adjustable and can be locked in place between two end stops according to the imprinted temperature scale (3).

It is also possible to manually restrict the maximum flow rate according to the accompanying diagrams from a closed position using the OPEN/CLOSED spindle of a second valve seat (4).

The shut-off device can be replaced during repair by rotating the union nut to the left.



4 During routine service and maintenance work, this spindle can be used to shut off the subsequent mains supply. The line above this can be drained using a knurled hollow spindle once the insertion thermometer has been removed and the shut-off spindle closed (5). If necessary, the control cartridge which is available as a spare part can also be replaced.



5 Once the pre-adjustment has been changed or once the repair work is complete, the insulation shells must be placed back around the valve and held closed with the spiral tension spring. The valve setting values should be written on the enclosed sticker and the sticker affixed to the insulation shells when the installation is complete. This also serves as a seal.

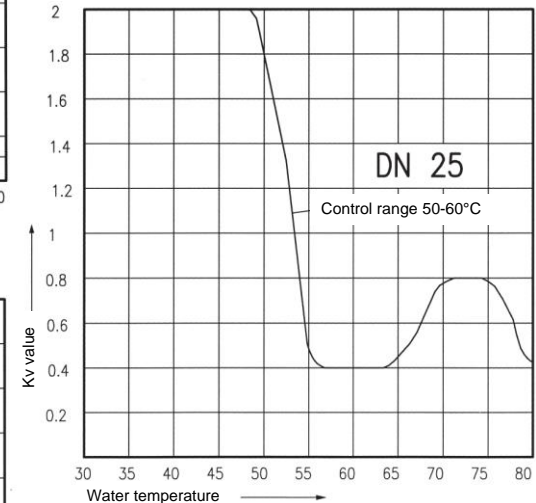
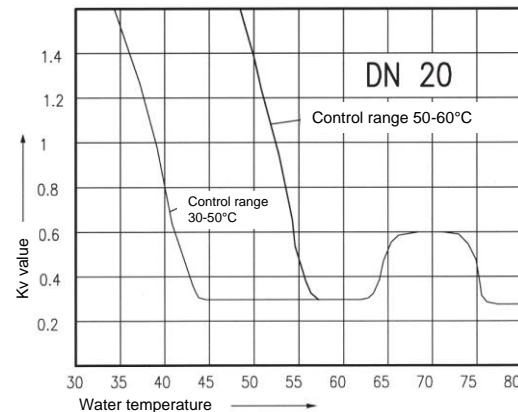
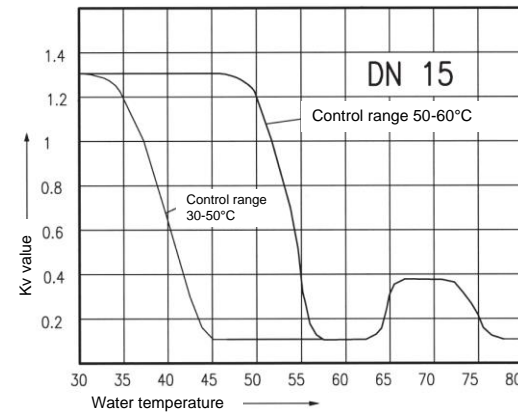
Thermal disinfection

The valve automatically increases the flow rate when the medium temperature in the thermal disinfection piece rises above 70°C (based on the factory setting). To maintain the hydraulic balance, the valve throttles back the flow rate above 75°C.

Technical data:

| | |
|---|---|
| Max. permissible operating temperature: | 90°C |
| Max. permissible operating pressure: | 16 bar |
| Nominal width: | DN15 / DN20 / DN25 |
| Model: | Coupler / Coupler or Male thread / Male thread |
| Adjustable control range: | 30°C – 50°C 50°C – 60°C |
| Factory setting: | Approx. 43°C Approx. 57°C |
| Thermal disinfection: | >65°C |

Characteristic curve for Kv value depending on the water temperature at a factory setting of 43°C or 57°C

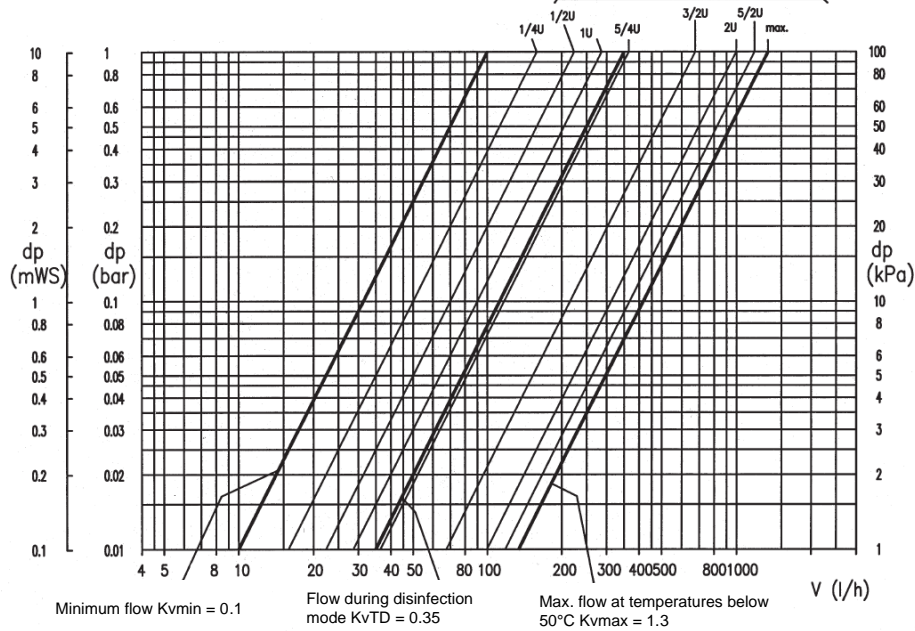


Flow diagram for circulation valve DN15

Control range 50-60°C

(according to DVGW VP554)

Max. flow values following manual adjustment via the shut-off spindle with rotation starting from the closed point.

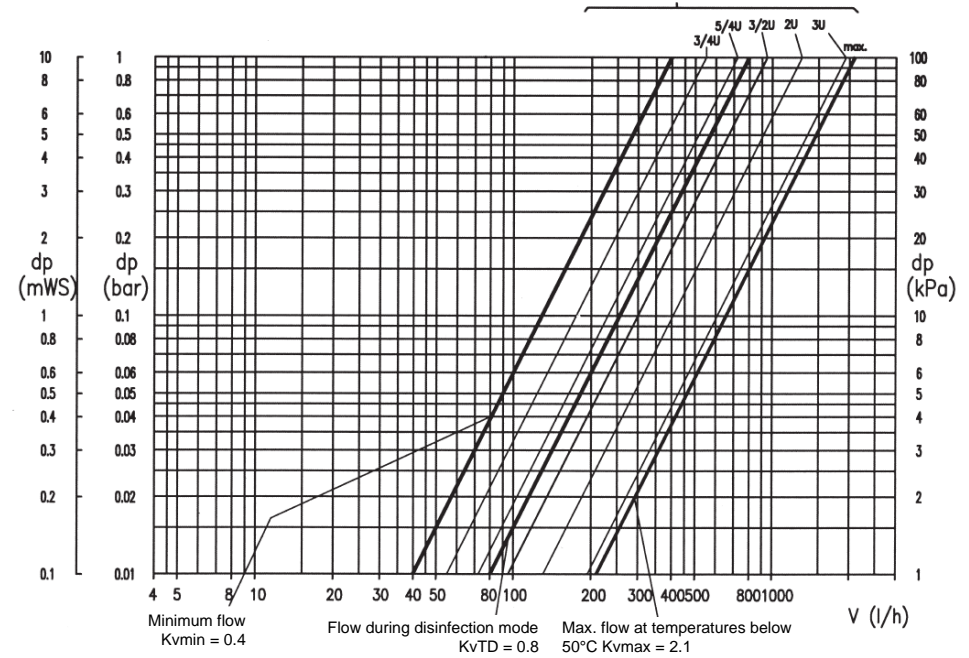


Flow diagram for circulation valve DN25

Control range 50-60°C

(according to DVGW VP554)

Max. flow values following manual adjustment via the shut-off spindle with rotation starting from the closed point.



Flow diagram for circulation valve DN20

Control range 50-60°C

(according to DVGW VP554)

Max. flow values following manual adjustment via the shut-off spindle with rotation starting from the closed point.

