

Mixing valves type TV 3S

Application

TV 3S are mixing valves made in brass for regulating heating- or cooling applications. The valves comes with knob for manual operation, but can easily - and with advantage - be motorized, for example with our controller Thermomatic EC Home. All installation examples can be reversed. The scale is graded on both sides and can also be reversed.

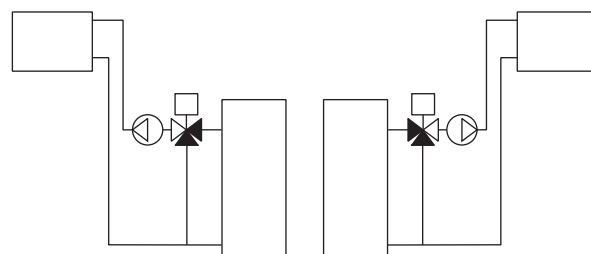
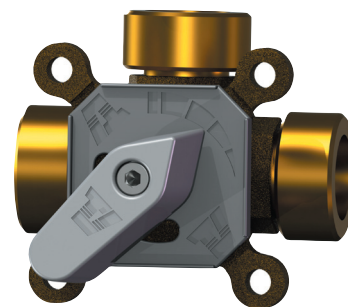
Service and maintenance

All vital parts are easily changeable.

Fitting *	Kvs **	Art. No.	Standard
R15 / ½" IT	2,5	15 025 001	X
R15 / ½" IT	4	15 040 001	X
R15 / ½" ET	2,5	15 025 002	
R15 / ½" ET	4	15 040 002	
R20 / ¾" IT	2,5	15 025 003	X
R20 / ¾" IT	4	15 040 003	X
R20 / ¾" ET	2,5	15 025 004	
R20 / ¾" ET	4	15 040 004	
R25 / 1" IT	4	15 040 005	X
R25 / 1" IT	6	15 060 005	X
R25 / 1" IT	8	15 080 005	X
R25 / 1" IT	10	15 100 005	X
R25 / 1" ET	4	15 040 006	
R25 / 1" ET	6	15 060 006	
R25 / 1" ET	8	15 080 006	
R25 / 1" ET	10	15 100 006	
Cu18	2,5	15 025 007	
Cu18	4	15 040 007	
Cu22	2,5	15 025 008	X
Cu22	4	15 040 008	X
Cu28	4	15 040 009	X
Cu28	6	15 060 009	X
Cu28	8	15 080 009	X
Cu28	10	15 100 009	X

* Pump flange R40 IT available from factory on special order. It's also possible to combine different fitting dimensions.

** Optional Kvs-value (1,6, 2,5, 4, 6, 8, 10) available for all fitting dimensions on special order.



TECHNICAL DATA

Opening angle:	90°
Pressure class:	PN 10
Medium temperature:	max. (continuously) +110°C max. (temporarily) +130°C min. 0°C
Torque (by nom. pressure):	< 3 Nm
Working pressure:	1 MPa (10 bar)
Connection:	Internal thread, EN 10226-1 External thread, ISO 228/1 Compression fit., EN 1254-2

Materials

Valve housing and slide: Brass, CW 614N
Axis and bearing: Brass, CW 614N
O-rings: EPDM Peroxide 281



With pump flange

by  **Termoventiler AB**

Dimensioning

Heating system (radiators or underfloor heating):

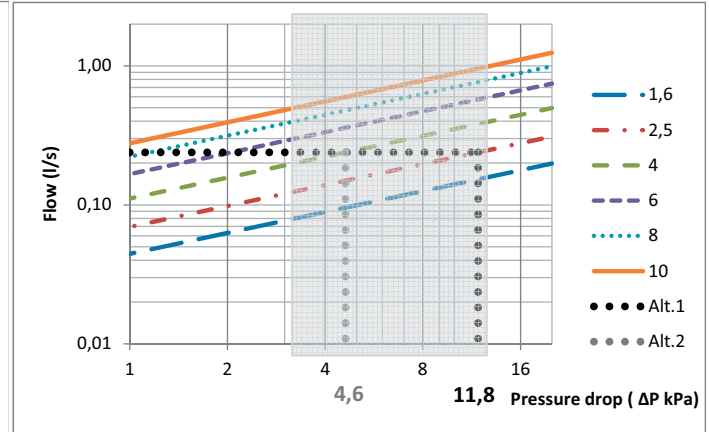
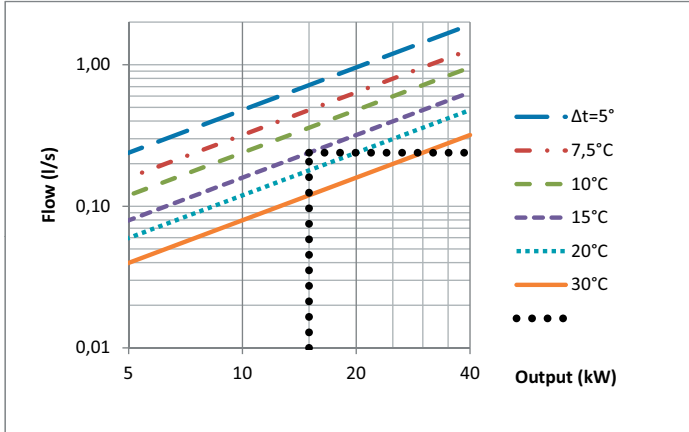
Start in the left diagram below; Assume the output needs of the system (eg. 15 kW) and go vertically to Δt (= temperature difference between supply temperature and return temperature, eg. 15°C). Continue horizontally to the shaded area (pressure drop 3–15 kPa) in the right diagram and choose the smaller alternative (eg. Kvs 2,5). Choose primarily the alternative with lowest Kvs-value.

Kvs (capacity value) = m³/h by 1 bar

Temperature difference (supply-return):

Radiator system = 15°C (eg. 60–45°C)

Underfloor heating = 5°C (eg. 35–30°C)



Cu	A	B	C	D
22	41	80	60	
28	41	82	60	
IT				
R15	42	84	60	
R20	42	84	60	
R25	42	84	60	
ET				
R25	40	80	60	44

Cu = Compression fitting
 IT = Internal thread
 ET = External thread

