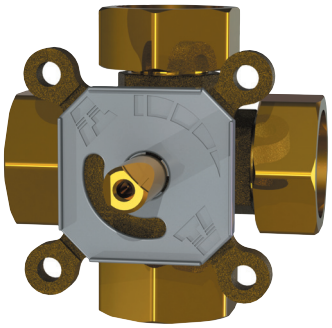
Mixing valves type TV 4BIV

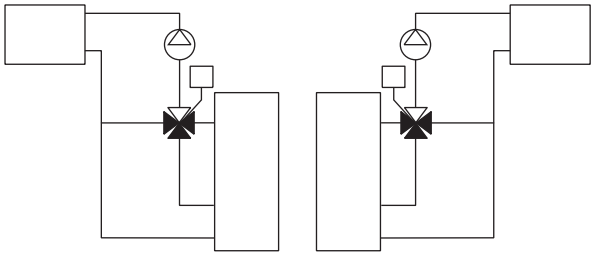
Application

TV 4BIV 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 controllers Thermomatic EC Home or CC. 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.





**Other connection examples available*

Fitting*	Kvs	Art. No	Standard
R15 / ½" IG	4	15 040 101	
R15 / ½" IG	6	15 060 101	
R15 / ½" UG	4	15 040 102	
R15 / ½" UG	6	15 060 102	
R20 / ¾" IG	4	15 040 103	
R20 / ¾" IG	6	15 060 103	
R20 / ¾" UG	4	15 040 104	
R20 / ¾" UG	6	15 060 104	
R25 / 1" IG	4	15 040 105	
R25 / 1" IG	6	15 060 105	
R25 / 1" UG	4	15 040 106	
R25 / 1" UG	6	15 060 106	
Cu22	4	15 040 108	X
Cu22	6	15 060 108	X
Cu28	4	15 040 109	
Cu28	6	15 060 109	

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

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

by Termoventiler AB

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Dimensioning

Heating system (radiators or underfloor heating):

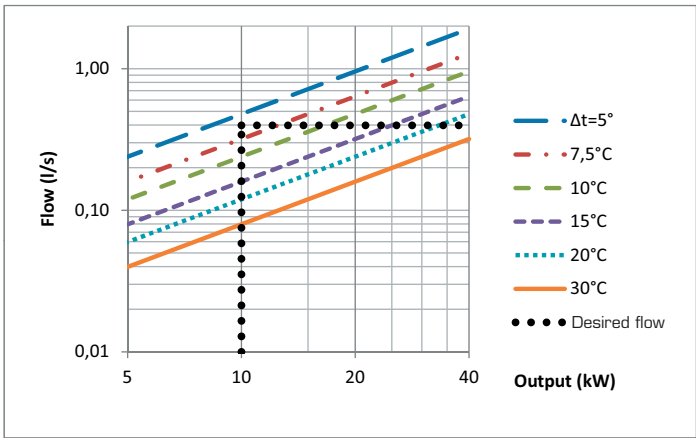
Start in the left diagram below; Assume the output needs of the system (eg. 10 kW) and go vertically to desired Δt (= temperature difference between supply temperature and return temperature, eg. 6°C). Continue horisontally to the shaded area (pressure drop 3–15 kPa) in the right diagram and choose the smaller alternative (eg. Kvs 4). Choose primarily the alternative with lowest Kvs-value.

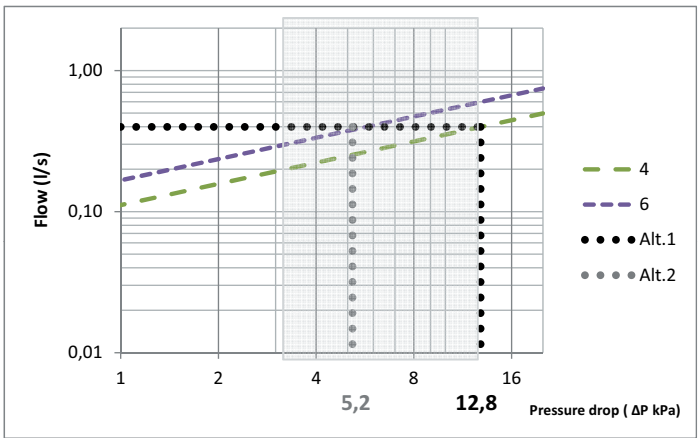
Kvs (capacity value) = m^3/h by 1 bar

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