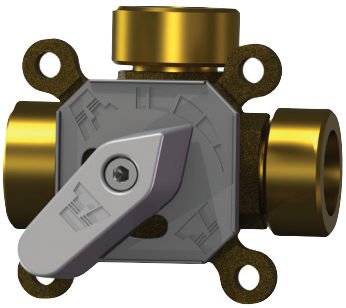
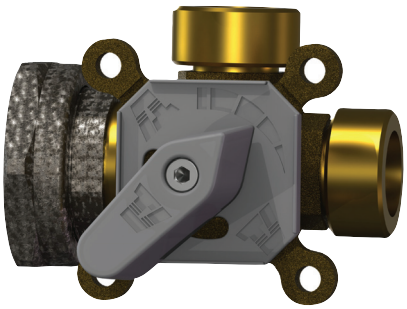
Mixing valves TV 3S

3-way mixing valve





TV 3S are 3-way brass mixing valves for control of heating or cooling applications.

The valves are fitted with a wheel for manual mixing but can easily – and with advantage – be motorised, e.g. with our Thermomatic controls.
All of the connection examples can be reversed.
The scale is graded on both sides, and can also be reversed. All important parts can easily be replaced.

Our mixing valves can be supplied with the following connections and Kvs values.

Connections:
R15 / ½" Rp and G
R20 / ¾" Rp and G
R25 / 1" Rp and G
Cu22
Cu28

Kvs values:
2,5 / 4 / 6 / 8 / 10

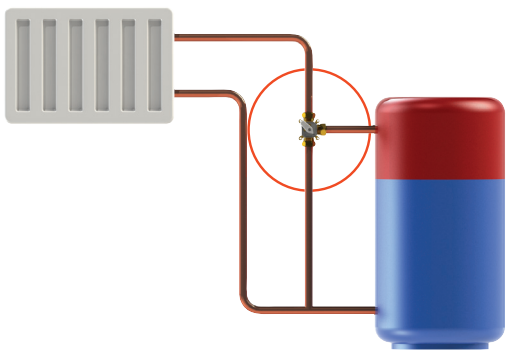
Pump flange R40 / 1 ½" Rp can be pre-fitted on special order. It is also possible to combine different connection dimensions.

Technical data

Turning angle:	90°
Pressure class:	PN 10
Media temperature:	max. (continual) +110°C
	max. (temporary) +130°C
	min. 0°C
Torque (at nominal pressure):	
	< 3 Nm
Operating pressure:	1 MPa (10 bar)
Connections:	Rp (internal thread), EN 10226-1
	G (external thread), ISO 228/1
	Cu (compression fit), EN 1254-2

Materials

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

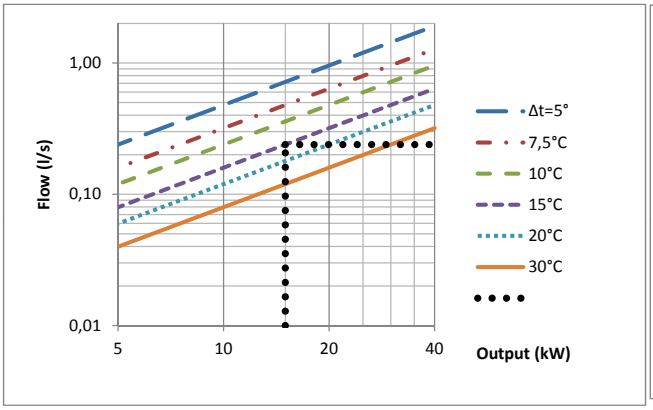


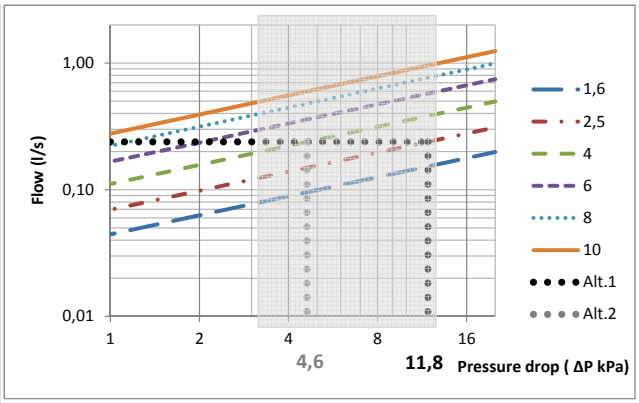
Dimensioning

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 horisontally 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):

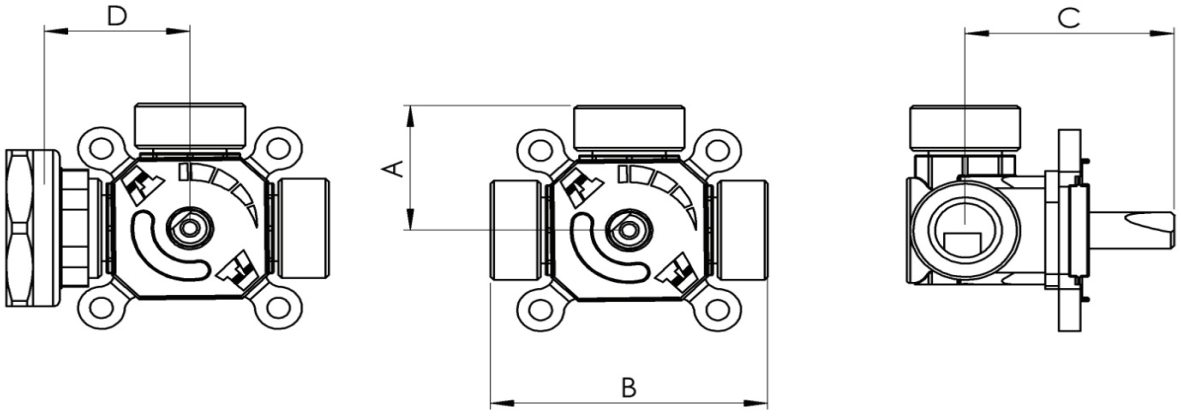
Radiator system = 15°C (eg. 60–45°C)
Underfloor heating = 5°C (eg. 35–30°C)





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



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