Tender specification:

Thermostatic radiator valve PN 16 with connection thread according to DIN EN 10226 (inlet port: female thread; outlet port: tailpipe), not suitable for steam; with infinitely adjustable presetting; valve body made of nickel plated brass, maintenance-free stem seal due to double O-ring, installation in the supply and return pipe, connection for threaded and copper pipes or composition pipe “Copipe”, connection thread M 30 x 1.5, suitable for the installation of thermostats (e.g. “Uni XH”) or actuators (e.g. electromotive actuators (0-10 V)).
The valve insert is replaceable by using the special tool “Demo-Bloc” without draining the system.

Technical data:

Max. operating temperature t_S: 120 °C

Min. operating temperature t_S: -10 °C

Max. operating pressure p_S: 16 bar

Max. differential pressure: 5 bar (bonnet pressure balanced)

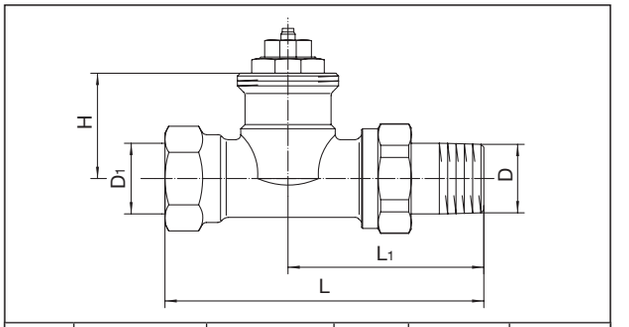
Effective control piston stroke: 3 mm

Fluids: Water or suitable ethylene/ propylene glycol water mixtures according to VDI 2035 / ÖNORM 5195 (max. glycol proportion 50 %, ph value 6.5-10). Not suitable for steam, oily and aggressive fluids.

Models:	k_V 1 K P	k_V 2 K P	k_{VS} value	**Item no.:**
Straight pattern valve				
DN 15	0.47	0.92	1.7	1187604
DN 20	0.47	0.92	2.3	1187606
DN 25	0.47	0.92	3.0	1187608
Angle pattern valve				
DN 15	0.47	0.92	3.0	1187504
DN 20	0.47	0.92	3.0	1187506

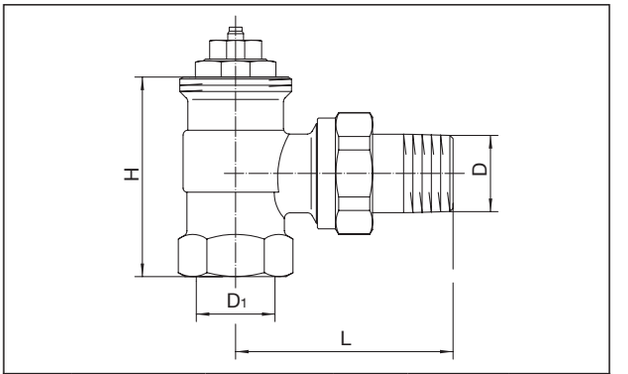
Function:
Oventrop thermostatic radiator valves “AZ V” are, amongst others, used for zone control in hot water central heating and cooling systems and serve to achieve a hydronic balance between the different zones. They can be combined with thermostats and actuators.
The balance is achieved by a reproducible presetting.
The required presetting values can be obtained from the flow charts. Presetting is carried out with the help a set for presetting for series “Hycocon HTZ”, item no. 1068585.
The valves can be installed in either the supply or the return pipe. The valve must only be installed into a clean pipework system and must only be operated with a clean unpolluted fluid. The installation of an Oventrop strainer is recommended.
The flow charts are valid for both, installation in the supply or the return pipe, provided the direction of flow conforms to the arrow on the valve body.
In cooling systems using mixtures of water and glycol, the correction factors related to the indicated chart values have to be taken into consideration. Due to the universal bonnet connection (M 30 x 1.5), the valve can be easily equipped with a thermostat (e.g. “Uni XH”) or an electrothermal or electromotive actuator. Bus-compatible actuators (KNX/EIB or LON) can also be mounted.

Valves “AZ V”



DN	D EN 10226-1	D_1 EN 10226-1	L	L_1	H
15	R ½	Rp ½	95	58	31
20	R ¾	Rp ¾	106	63	29
25	R 1	Rp 1	125	80	30

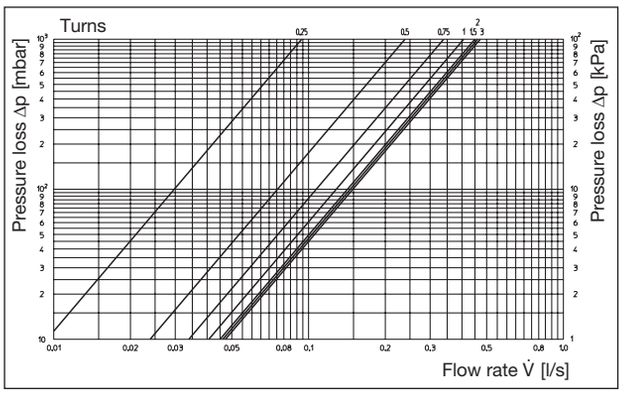
Dimensions straight pattern valve



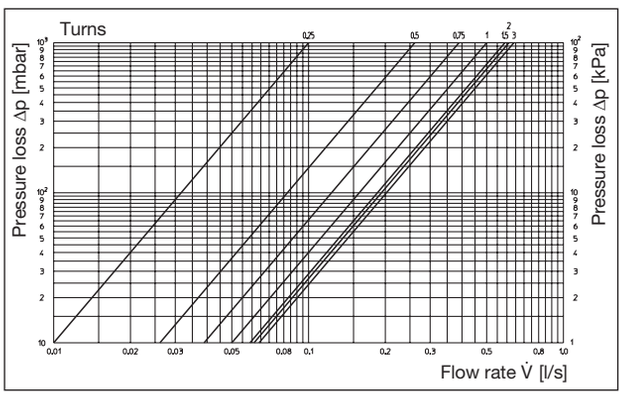
DN	D EN 10226-1	D_1 EN 10226-1	L	L_1	H
15	R ½	Rp ½	58	27	53
20	R ¾	Rp ¾	66	29	53

Dimensions angle pattern valve

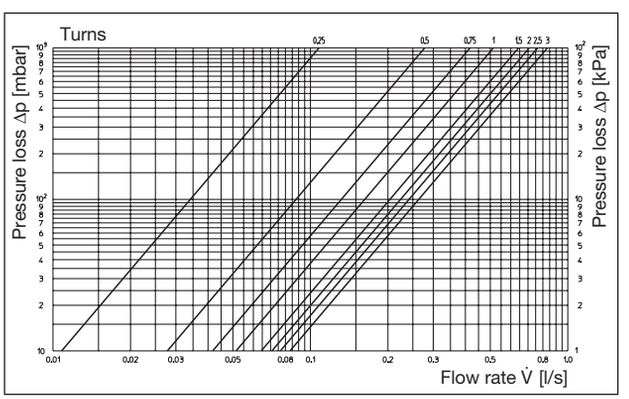
Charts:



DN 15 straight pattern



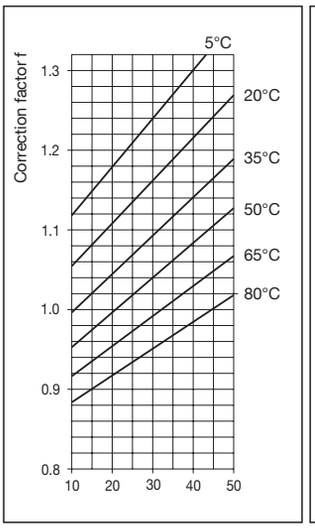
DN 20 straight pattern



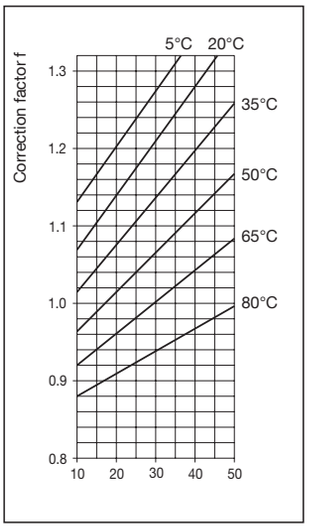
DN 15/20 angle pattern and DN 25 straight pattern

Correction factors for mixtures of water and glycol:

When adding antifreeze liquids to the heating water, the pressure loss obtained from the chart must be multiplied by the correction factor f.



Weight proportion of ethylene glycol [%]



Weight proportion of propylene glycol [%]

Subject to technical modifications without notice.

Product range 1
ti 298-EN/10/MW
Edition 2017