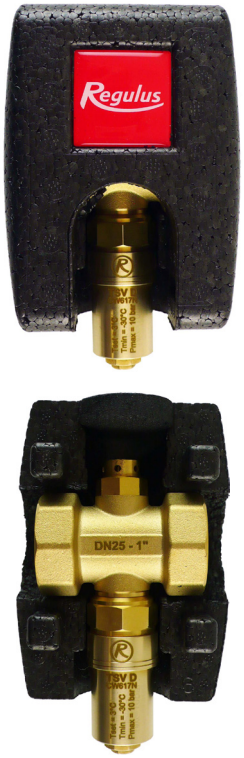
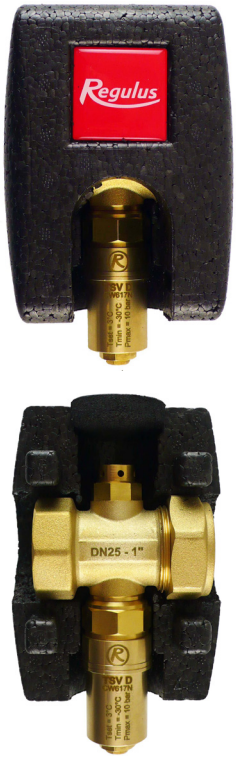
DATA SHEET

TSV D Thermostatic Antifreeze Valve

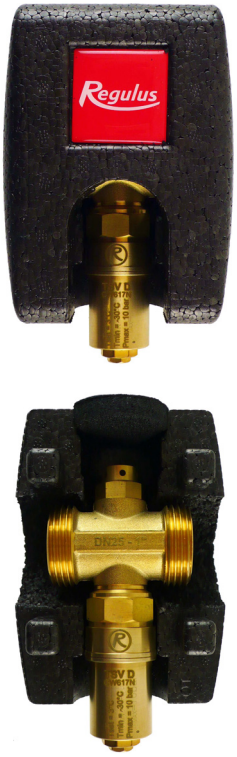
TSV D 1"F



TSV D Cu28 x 1"F



TSV D 1"M



TSV D 1"FM

TSV D 5/4"FM

R E G U L U S spol. s r. o. Czech Republic
Do Koutů 1897/3, 143 00 Praha 4
Tel.: +420 241 765 191
Fax: +420 241 763 976
E-mail: sales@regulus.eu
Web: www.regulus.eu

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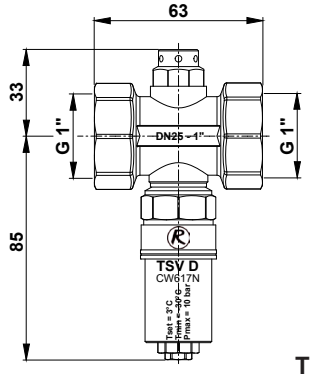
TSV D Thermostatic Antifreeze Valve

Main Features	
Description	The valve acts primarily as a protection of a heat pump against freezing in case of a power cut. When the heating circuit temperature drops below 3 °C, the thermostatic element opens and the thermostatic valve starts draining cold water slowly from the piping. Warmer water from the building's heating circuit expansion vessel will gradually start flowing into the piping, ensuring that the fluid in the heat pump does not freeze and so its components do not get damaged. If the power cut lasts for too long, the heat pump gets drained completely. When the heating circuit fluid temperature is above 3 °C, the valve is closed.
Working fluid	Water.
Installation	The valve shall be mounted in outdoor piping close to the heat pump, in a vertical position, with the air admittance valve upwards, at least 20 cm above ground. The piping must be sloped towards the valve on both sides and must not have P-traps or other obstacles preventing the free flow of fluid. The valve is supplied with insulation that ensures its proper function and minimizes heat loss. The valve must not get additional insulation to avoid losing its functionality.

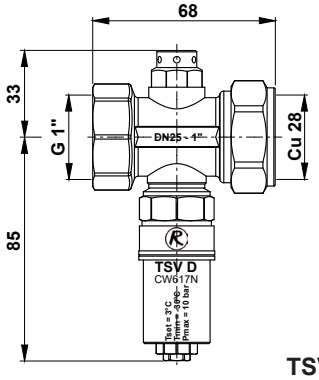
Materials	
Valve housing and connecting fittings	brass CW617N
Springs	stainless steel
Seal	EPDM

Technical Data

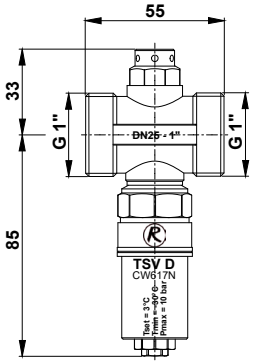
TSV D 1"F



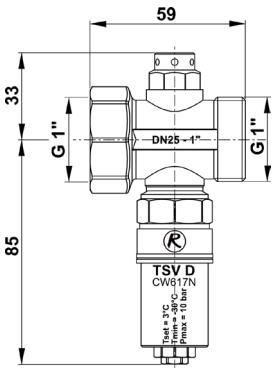
TSV D Cu28 x 1"F



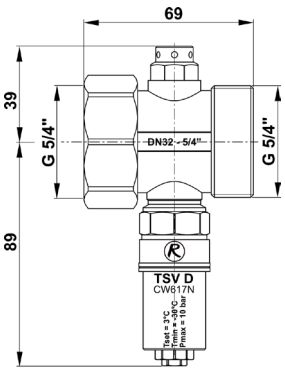
TSV D 1"M



TSV D 1"FM



TSV D 5/4"FM



Code	21965	21966	21640	22270	22269
Connection	G 1"F	Cu 28 mm – G 1"F	G 1"M	G 1" FM	G 5/4" FM
Max. working pressure [bar]	10	10	10	10	10
Ambient temperature [°C]	–30 to 60	–30 to 60	–30 to 60	–30 to 60	–30 to 60
Working fluid temperature [°C]	0 to 95	0 to 95	0 to 95	0 to 95	0 to 95
Opening temperature [°C]	2	2	2	2	2
Closing temperature [°C]	3	3	3	3	3
Kvs in straight direction [m³/h]	37	37	34	34	81
Weight [kg]	0.39	0.42	0.36	0.38	0.53

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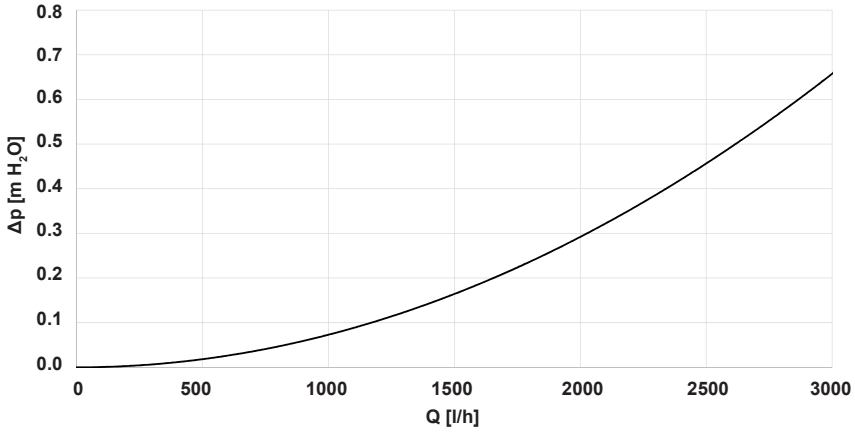
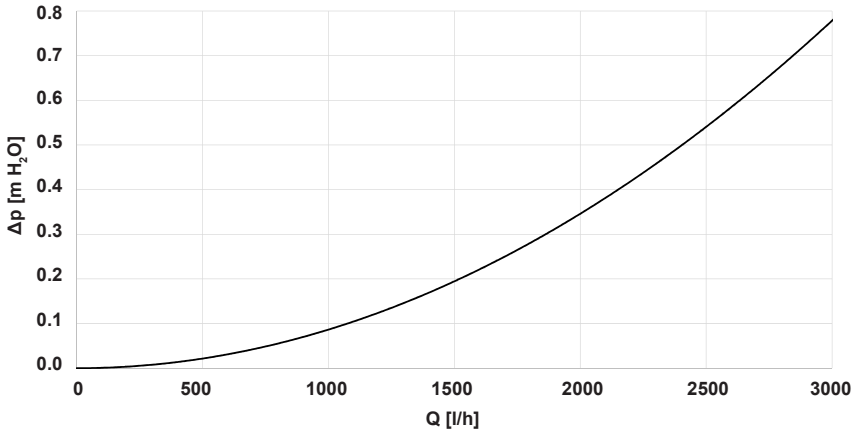
Pressure drop diagram

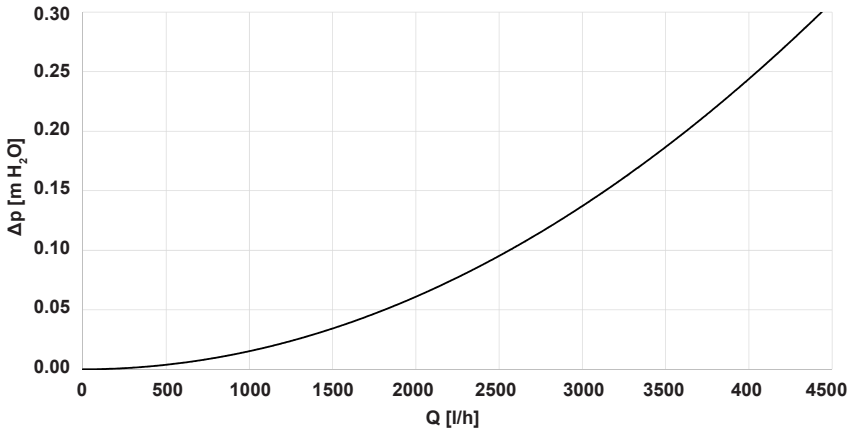
TSV D 1"F – code 21965, 21966



TSV D 1"M – code 21640, 22270



TSV D 5/4"FM – code 21269



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