Válvula Termostática Autoactuada L1S



TECHNICAL DATA

Materials:	
- Valve body	Gun metal RG 5
- Components	Stainless steel
- Gasket	Reinz AFM34
Nominal pressure	PN 16
Seating	Single seated
Flow characteristic	Quadratic
Leakage rate	≤ 0.05% of Kvs
Regulating capability	Kvs/Kvr > 25
Internal connection threads	ISO 7/1
Single seated and tight closing	

Subject to change without notice.

APPLICATIONS

Control valves type L1S are designed for regulating low, medium and high pressure hot water, steam and lubricating oils with thermostats, pneumatic or electric actuators. The valves are installed combined with temperature or pressure differential regulators in control systems for heating of domestic premises, district heating, industrial processes or marine installations. They can also be used in cooling applications when used with an electric actuator.

DESIGN

The valve components - spindle, seat and cone - are made of stainless steel. The valve body is made of gun metal RG 5. The thread for the actuator connection is G1B ISO 228. The valve is single seated. The leakage rate is less than 0.05% of the full flow (according to VDI/VDE 2174).

FUNCTION

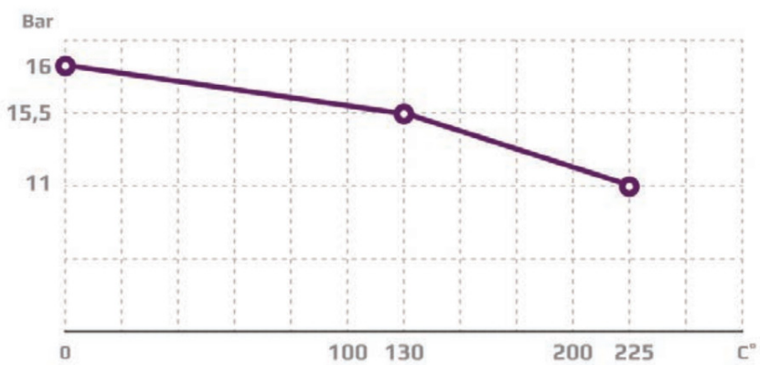
Without the actuator being connected, the valve is held in open position by means of a spring. With pressure on the spindle the valve will close. In connection with thermostats, pneumatic or electric actuators, the valve will close at rising temperatures. For cooling circuits the valve can be used in conjunction with a reverse acting electric actuator. Alternatively a reverse acting valve can be used with our self-acting thermostats. The quadratic characteristic will not cease, until the flow has dropped below 4% of the full flow.

FEATURES

- Simple design secures reliable controls and reduces costly downtime.
- Location of the pack box in the actuator makes the valve service friendly.
- Reliable and secure due to internal parts of stainless steel.
- Low leakage rate reduces the risk of overheating

PRESSURE/TEMPERATURE DIAGRAM

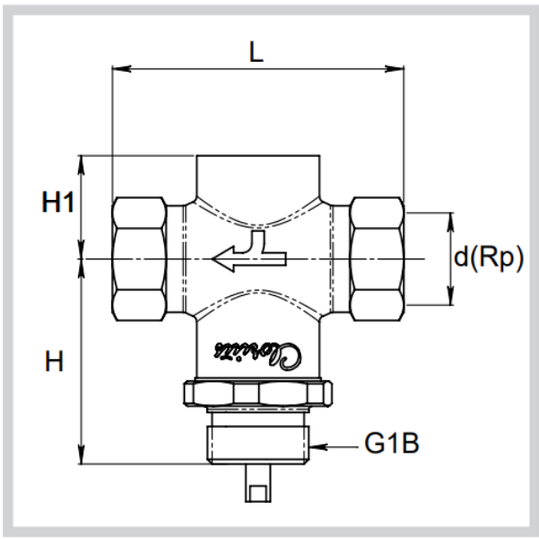
According to DIN 2401



MOUNTING

The valve can be installed with vertical as well as horizontal spindles. For valve temperatures of max. 170 ºC, the thermostat/ actuator can be fitted below or above the valve. For valve mounted with thermostats in media temperatures above 170 ºC, a cooling unit has to be applied with connection downwards (please refer to data sheet for thermostat accessories). For electric actuators a high temperature adaptor must be used (please refer to datasheets for the electric actuators).

DIMENSION SKETCH



Type	L (mm)	H (mm)	H1 (mm)	d
15/6 L1S	85	65	20	Rp ½
15/9 L1S	85	65	20	Rp ½
15/12 L1S	85	65	20	Rp ½
15 L1S	85	65	26	Rp ½
20 L1S	95	67	32	Rp ¾

SPECIFICATIONS

Type	Connection threads	DN (mm)	Opening (mm)	k_{vs}-value m^3/h	Lifting height (mm)	Weight (kg)
15/6 L1S	Rp ½	15	6	0.45	6	0.7
15/9 L1S	Rp ½	15	9	0.95	6	0.7
15/12 L1S	Rp ½	15	12	1.7	6	0.7
15 L1S	Rp ½	15	15	2.75	6	0.7
20 L1S	Rp ¾	20	20	5.00	7	0.8