2-way Control Valve type L1SB

Gun Metal, PN 16, DN 15 - 32 mm

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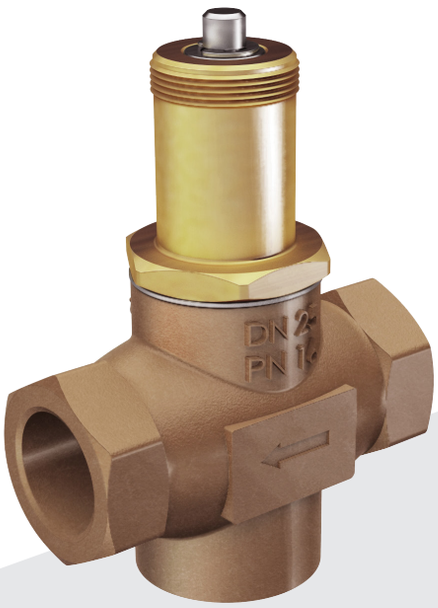


TECHNICAL DATA

Materials:

- Valve body	Gun metal RG 5
- Components	Stainless steel
- O-ring	FPM, 75 SHOREA
- 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
Pressure balanced control valve	

APPLICATIONS

Balanced control valves type L1SB are designed for regulation of hot water, steam and lubricating liquids. The valves are installed combined with our self-acting thermostats, pressure differential regulators, pneumatic or electric valve actuators for regulation in central heating plants, industrial plants, industrial processes or marine installations. Balanced valves are used in installations where the system pressure necessitates a closing force greater than available in the actuator programme for a standard single seated valve, and where the leakage rate for a double-seated valve is unacceptable.

DESIGN

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

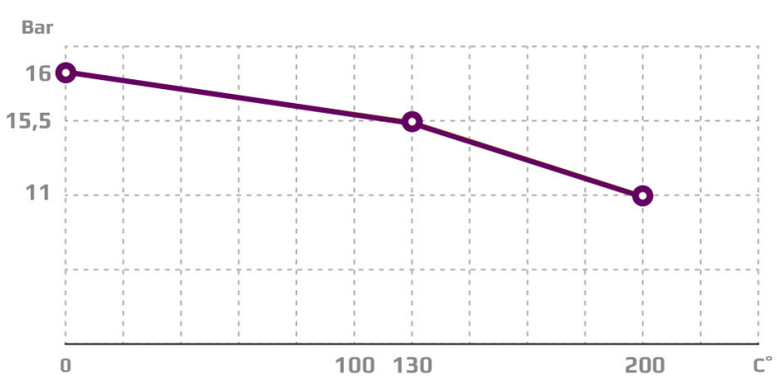
FUNCTION

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 our thermostats the valves will close at rising temperatures. In connection with our pneumatic or electric valve actuators the valves will either close or open depending on the application. 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

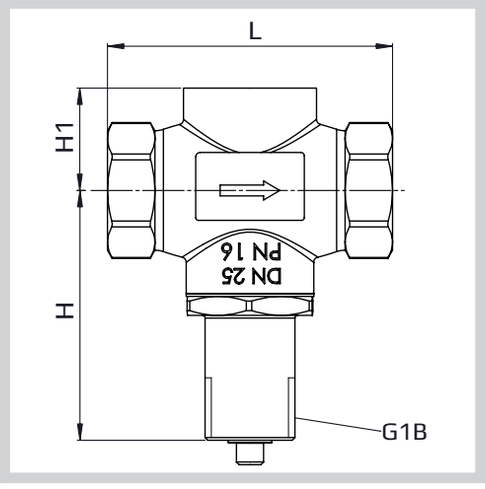


Subject to change without notice.

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)
15 L1SB	85	86	30
20 L1SB	95	94	35
25 L1SB	105	92	40
32 L1SB	138	94	54

SPECIFICATIONS

Type	Connection threads	DN (mm)	Opening (mm)	k_{vs}-value m^3/h	Lifting height (mm)	Weight (kg)
15 L1SB	Rp ½	15	15	2.75	6	1.0
20 L1SB	Rp ¾	20	20	5	6.5	1.3
25 L1SB	Rp 1	25	25	7.5	7	1.6
32 L1SB	Rp 1¼	32	32	12.5	8	2.9