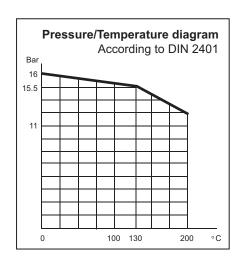
Characteristics

- Nominal pressure PN 16
- Regulating capability kvs > 25
- Single seated, balanced
- · Quadratic characteristic

Applications

Control valves type L1SB are designed for regulation of hot water, steam and lubricating oils.

The valves are installed combined with our self-acting thermostats, pressure differential regulators or valve motors for regulation in central heating plants, industrial plants, industrial processes or marine installations.



Design

The valve components - spindle, seats 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. balanced. The leakage rate is less than 0.05% of the full flow (according to VDI/ VDE 2174).

Quality assurance

All valves are manufactured under an ISO 9001 certification, and are pressure and leakage tested before shipment.



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 valve motors 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.



Technical data

Materials:

Gun metal RG 5 - valve body Stainless steel - components Nominal pressure Seating Valve characteristic

Leakage Temperature range

PN 16 Single seated Quadratic \leq 0.05% of k_{vs} See pressure/ temperature diagram

Mounting See page 2 Internal connection threads

ISO 7/1

Specifications											
Туре	Connection threads	DN mm	Opening mm	. 0 45		Weight kg					
20 L1SB	Rp ¾	20	20	5	6.5	1.3					
25 L1SB	Rp 1	25	25	7.5	7	1.6					

Subject to change without notice.



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Definition of k_{vs}-value

The k_{vs} -value is identical to the IEC flow coefficient k_v and defined as the water flow rate in m³/h through the fully open valve by a constant differential pressure, Δp_v , of 1 bar.

Mounting

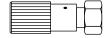
For valve temperatures of max. 170°C, the thermostat/actuator can be fitted below or above the valve. For valve temperatures above 170°C, a cooling unit of type KS 4 has to be applied and the thermostat/actuator must be fitted below the valve.

Strainer

It is recommended to use a strainer in front of the control valve if the liquid contains suspended particles.

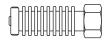
Accessories

Manual Adjusting Device



The device has a built-in stuffing box. For sealing and manual operation of valves when an actuator has not been fitted, e.g. during periods of construction (max. 170°C).

Cooling Unit KS-4



Cooling unit protecting the stuffing box of the motor/thermostat. To be applied at valve temperatures between 170°C and 250°C.

Type L H H1 mm mm mm mm 20 L1SB 95 94 35

Dimensioning

Turna	Water / Steam		Thermostats		Valve motors	Pressure differential controllers		
Type			V2	V4	VB/VBA	TD66-4	TD66-8	
DN 20	Water:	$\Delta p_L^{}$ & max. $p_1^{}$	bar	7.5	16	16	16	16
	Steam:	∆p _L & max. p ₁	bar	6.5				
DN 25	Water:	∆p _L & max. p ₁	bar	6				
	Steam:	∆p _L & max. p ₁	bar	5				

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25 L1SB



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