2-way Control Valves type L2S
Gun Metal, PN 16, DN 20 – 50 mm

Characteristics

- Nominal pressure PN 16
- Regulating capability $\frac{k_{vs}}{k_{vr}} > 25$
- Double seated
- Linear characteristic

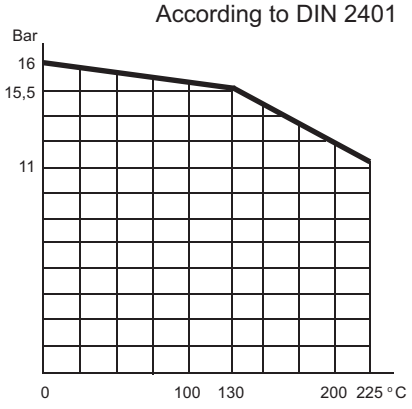
Applications

Control valves type L2S are designed for regulation of hot water and lubricating oils.
The valves are installed combined with one of our self-acting thermostats, pressure differential regulators or valve motors for regulation in central heating plants, industrial plants, industrial processes or marine installations.

Dimensioning

For sizing of control valves and selection of actuators please see "Quick Choice" leaflet no. 9.0.00.

Pressure/Temperature Diagram
According to DIN 2401



Design

The valve body, seats and cone are made of gun metal RG 5. The stem is made of brass.
The thread for the actuator connection is G1B ISO 228.
The valves are double seated and designed for tight closure.The leakage rate is less than 0.5% 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.

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 or electronic actuators, the valves will close at rising temperatures. For cooling circuits a reverse acting valve can be used.
The linear characteristic will not cease, until the flow has dropped below 4% of the full flow.

Technical Data

Materials:	
- valve body	Gun metal RG 5
- components	Gun metal RG 5
- stem	Brass
Nominal pressure	PN 16
Seating	Double seated
Valve characteristic	Linear
Leakage	≤ 0.5% of k_{vs}
Temperature range	See pressure/temperature diagram
Mounting	See page 2
Internal connection threads	ISO 7/1

Specifications

Type	Connection threads	DN mm	Opening mm	k_{vs}-value m^3/h	Lifting height mm	Weight kg
20 L2S	Rp ¾	20	20	5	4	1
25 L2S	Rp 1	25	25	7.5	5	1
32 L2S	Rp 1¼	32	32	12.5	6	1.6
40 L2S	Rp 1½	40	40	20	8	2.9
50 L2S	Rp 2	50	50	30	9	3.8

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 m^3/h through the fully open valve by a constant differential pressure, Δp_V, of 1 bar.

Mounting

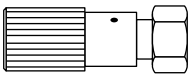
The valves can be installed with vertical as well as horizontal spindles. For valve temperatures of max. 170ºC, the thermostat/actuator can be fitted below or above the valve. For valve temperatures above 170ºC, a cooling unit of type KS 4 has to be applied with connection downwards.

Strainer

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

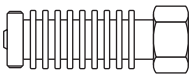
Accessories

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. 170ºC).

Cooling Unit KS-4



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

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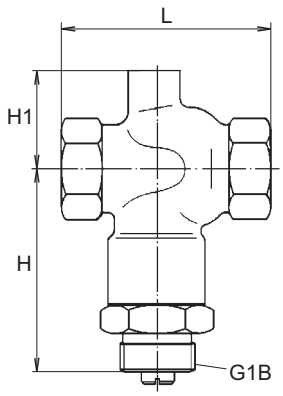
Dimension Sketch



Type	L mm	H mm	H1 mm
20 L2S	90	82	48
25 L2S	100	80	53
32 L2S	113	82	58
40 L2S	129	118	68
50 L2S	153	122	71

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