2-way Control Valve type L2SR

Gun metal, PN 16, DN 40 – 50 mm, 2 seats, Reverse acting

0-2.2.06-L

APPLICATIONS

Valves type L2SR are mainly intended for control of cooling water, sea water and lubricating liquids. The valves are used in conjunction with temperature- or pressure differential regulators in industrial processes or marine installations - especially in control systems for cooling. As the reverse acting valves are held in closed position by means of a built-in spring, the max. differential pressure, Δp_L, against which a valve can close depends on the spring and when opening the valve, the actuator has to overcome the spring force.

DESIGN

The valve body, seats and cone – are made of gun metal RG 5 and the stem of stainless steel – the valve body with threaded ends according to ISO 7-1. The thread for the actuator connection is G1B. The valves are double-seated. The leakage rate is less than 0.5% of the full flow (according to VDI/VDE 2174).

FUNCTION
REVERSE ACTING

Without an actuator being connected, the valve is held in closed position by means of a spring. With pressure on the spindle the valve opens. In connection with thermostats, pneumatic or electric valve actuators. The valves act as “cooling” valves, i.e. they open at rising temperatures.

FEATURES

- Simple design secures reliable controls and reduces costly downtime.
- Location of the pack box in the actuator makes the valve service friendly.

TECHNICAL DATA

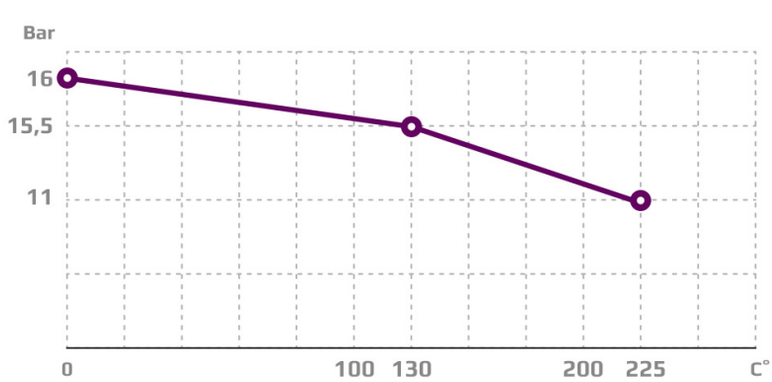
Materials:

- Valve body	Gun metal RG 5 W.No. 2.1086
- Stem	Stainless steel W.No. 1.4436
- O-ring	70 NBR
- Gasket	Reinz-AFM34
Nominal pressure	PN 16
Seating	Double seated
Flow characteristic	Linear
Leakage rate	≤ 0.5% of Kvs
Regulating capability	Kvs/Kvr > 25
Connection threads	ISO 7-1

Reverse acting (normally closed)
For cooling water and lubricants

PRESSURE/TEMPERATURE DIAGRAM

According to DIN 2401

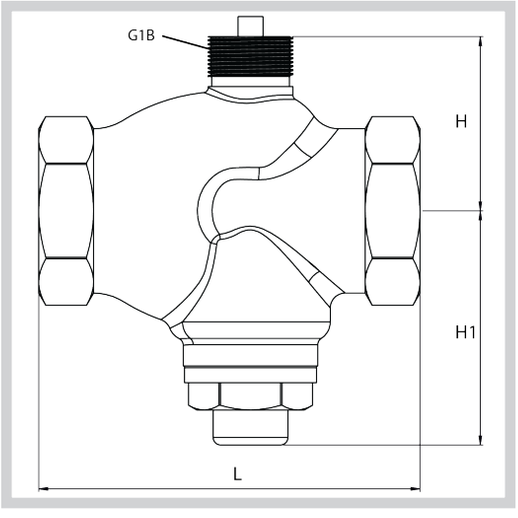


Subject to change without notice.

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)
40 L2SR	129	65	90
50 L2SR	153	70	94

SPECIFICATIONS

Type	Connection R_p	Opening dia. Mm	k_{vs}-value m^3/h	Rated travel mm	Max. Δp_L bar	Actuator Force N	Corresp. p_{1max} bar	Weight kg
40 L2SR	1½''	40	20.00	8	2.7	400	16.0	3.0
50 L2SR	2''	50	30.00	9	1.8	400	16.0	4.0