

3-way Control Valve type L3F

Gun metal, PN 10, DN 65 – 150 mm

0-2.2.08-K

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APPLICATIONS

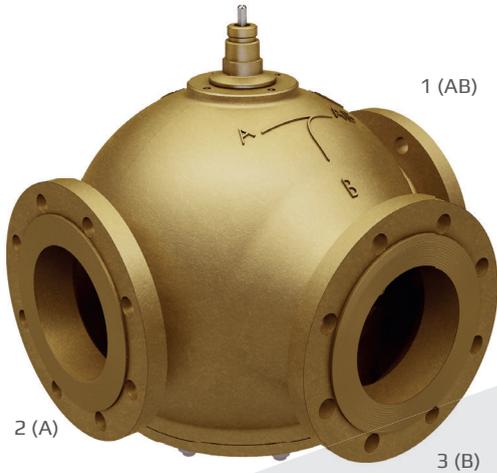
Control valves type L3F are designed for regulating hot water - and cold and hot sea water. The valves are used in connection with one of our temperature regulators in control systems for industrial processes or marine installations.

DESIGN

The valve components - valve body, seats, cone and spindle - are made of sea water resistant materials with connection flanges drilled according to DIN 86021. The connection thread for the actuator is G1B.

FUNCTION

Without an actuator being installed, connection 2-1 is fully open and connection 3-1 completely closed, by means of a spring. By increasing pressure on the spindle, the opening of the ports changes proportionally to the travel of the spindle, and when the spindle is pressed to the bottom, connection 3-1 is fully open and connection 2-1 completely closed.



TECHNICAL DATA

Materials:

- Valve body	CuSn10
- Seats, cone, spindle	CuAl10Fe5Ni5
- O-ring	90 NBR
- Gasket	Reinz-AFM34
Nominal pressure	PN 10
Seating	2 balanced seats
Flow characteristic	Almost linear
Leakage rate	≤ 0.5% of Kvs
Regulating capability	Kvs/Kvr > 25
Flanges drilled according to	DIN 86021

Important note

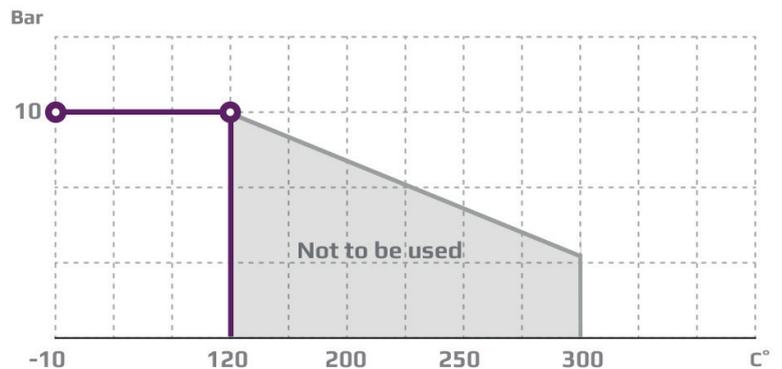
In case the valves are applied as diverting valves, the pressure drop will increase by 35% and the Kvs-value will decrease by 14% as against mixing valves.

FEATURES

- Sea water resistant
- Simple design secures reliable controls and reduces costly downtime.
- Can be used for both mixing and diverting

PRESSURE/TEMPERATURE DIAGRAM

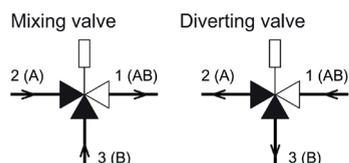
According to DIN 2401



Subject to change without notice.

PORT NUMBERING

The ports of valves type L3F are marked with the letters AB, A and B.



Port 1(AB)
Port 2(A)
Port 3(B)

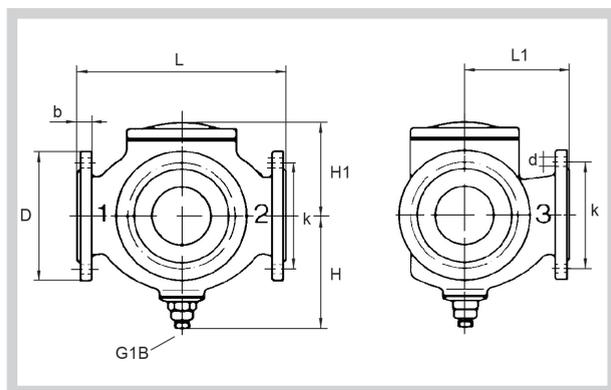
common port always open
closes at load on spindle
opens at load on spindle



MOUNTING

The valves can be installed with vertical as well as horizontal spindles. The valves must be mounted in a way that the actuator will be exposed to a minimum of moisture and unnecessary vibrations.

DIMENSION SKETCH



Type	L (mm)	L1 (mm)	H (mm)	H1 (mm)	D (dia.) (mm)	b (mm)	k (dia.) (mm)	d mm dia. (number)
65 L3F	240	120	175	120	185	20	145	18x(4)
80 L3F	310	155	180	127	200	22	160	18x(8)
100 L3F	350	175	195	145	220	22	180	18x(8)
125 L3F	400	240	245	180	250	24	210	18x(8)
150 L3F	480	270	280	189	285	24	240	22x(8)

SPECIFICATIONS

Type	Flange connection DN in mm	Opening mm	Mixing valve k_{vs} -value m^3/h	Diverting valve k_{vs} -value m^3/h	Lifting height mm	Weight kg
65 L3F	65	65	50	43	10.5	22.5
80 L3F	80	80	80	69	11	40
100 L3F	100	100	125	108	13	55
125 L3F	125	125	215	185	18	91
150 L3F	150	150	310	267	21	131