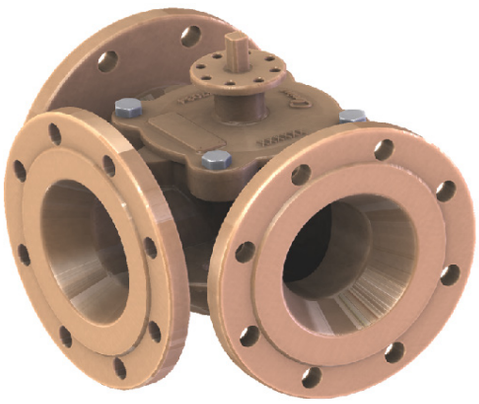
3-way Control Valve type L3FMT-ULLM Ultra Low Leakage (Middle)

Bronze, PN10, DN125 - DN 250 mm

0-2.6.22-B



APPLICATIONS

Control valve type L3FMT-ULLM is a three-way control valve with a slide for quarter turn operation designed for regulating of sea water, lubricating oil and other liquid media. The valves are designed for use in conjunction with industrial processes, district heating and marine installations with large water or lubricating oil volumes:

- Engine Jacket Cooling Water System
- Lubricating Oil Cooling
- Central Cooling Water System, etc.

The valves are designed for use in conjunction with electric actuator type CAR-H with handle for manual operation or for use in conjunction with a pneumatic actuator type VT.

DESIGN

The valve body is made of bronze and the slide is made of alu. bronze.
The valve flanges are drilled according to EN 1092-2.
Option: JIS B 2210 5K/10K and ANSI class 150.

FUNCTION

The slide is firmly connected with the motor spindle. When the slide is in the one outer position by turning the spindle, connection A-AB is fully open and connection B-AB is fully closed. In the other outer position connection A-AB is fully closed and connection B-AB is fully open.
In the intermediate positions the opening degrees change proportionally.
The valve has a small tolerance between body and slide.
PTFE sealing element and O-ring are mounted in the slider groove to minimize leakage.

This section to be read together with sketches page 2 this data sheet.

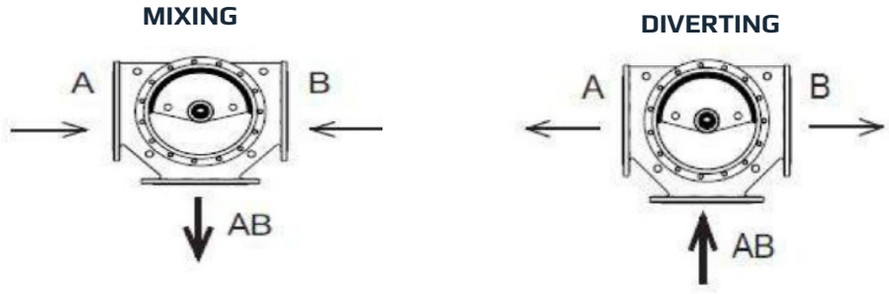
TECHNICAL DATA

Materials:	
- Valve body	Bronze CuSn10Zn2
- Slide	Alu. bronze CuAl10Fe5Ni5
- Sealing element and O-ring	Silicone/PTFE
Flow characteristic	Almost linear
Leakage rate	ANSI class IV/EN 1349 < 0.01%
Flanges	EN 1092-2 PN 10
- Option	JIS B 2210 5K/10K ANSI class 150
Max. pressure Δp, against which the valve can close	5 bar
Nominal pressure	PN 10
Design temperature	120°C
Optional temperature	150°C

FEATURES

- **Simple design secures reliable controls and reduces costly downtime**
- **Ultra Low Leakage rate secures energy savings - Best in class**
- **Most compact valve on the market**
- **Full flexibility on port orientation**
- **Sea water resistant**

PORT NUMBERING: AB-MIDDLE



MOUNTING

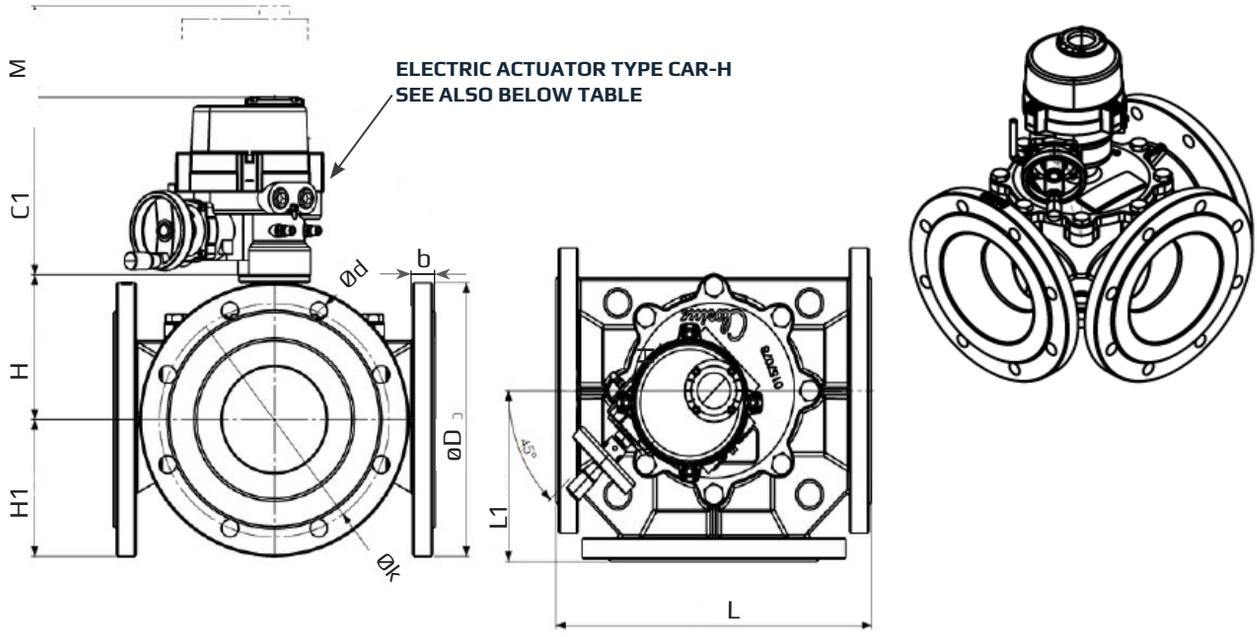
The valve connections are marked A, B and AB. The slide is operating between A and B. Check slide position before installation in the pipe. The slide position is marked on the top of the shaft. The valves can be installed with vertical as well as horizontal spindles. The valves must be mounted in a way that the valve actuator will be exposed to a minimum of moisture and unnecessary vibrations.

3-way Control Valve type L3FMT- ULLM Ultra Low Leakage (Middle)

Bronze, PN10, DN125 - DN 250 mm

0-2.6.22-B

DIMENSION SKETCH



SPECIFICATIONS - TABLE 1 (read this together with table on page 4)

Type	L (mm)	L1 (mm)	H (mm)	H1 (mm)	b (mm)	C1 (mm)	M (mm)	Electric Actuator Type CAR-H
125 L3FMT-ULLM	330	165	140	ØD/2	24	223	110	CAR-H 006/010
125 L3FMT-ULLM JIS5K	320	160	140	ØD/2	19	223	110	CAR-H 006/010
200 L3FMT-ULLM	410	205	182	ØD/2	28,4	261	150	CAR-H 016
250 L3FMT-ULLM	480	240	202	ØD/2	31	261	150	CAR-H -020

ØD/2 - Depends on flange type (see also table 2)

SPECIFICATIONS TABLE 2

Flange connections	EN 1092-2			ANSI Class 150			JIS B 2210 5K			JIS B 2210 10K		
	D (dia.) (mm)	**k** (dia.) (mm)	**d** mm dia. (number)	**D** (dia.) (mm)	**k** (dia.) (mm)	**d** mm dia. (number)	**D** (dia.) (mm)	**k** (dia.) (mm)	**d** mm dia. (number)	**D** (dia.) (mm)	**k** (dia.) (mm)	**d** mm dia. (number)
DN125	250	210	19x(8)	255	216	22x(8)	235	200	19x(8)	250	210	23x(8)
DN200	343	295	22x(8)	343	298	22x(8)	320	280	23x(8)	330	290	23x(12)
DN250	405	350	23x(12)	405	362	25x(12)	385	345	23x(12)	400	355	25x(12)

SPECIFICATIONS - TABLE 3

Type	Flange connection	KvS m3/h	Torque Nm	*Weight kg
DN125	125	179	40	45
DN200	200	550	120	88
DN250	250	830	150	126

Torque calculated at max **Δ** P for: DN125 - 200 - 5 Bar

NOTE: KvS is max. KvS value

***Weight is estimated.**