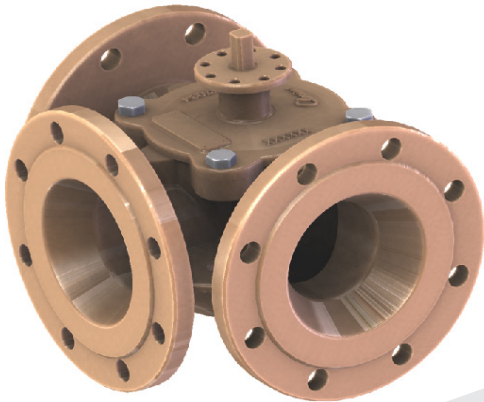


3-way Control Valve type L3FMT-ULL (Ultra Low Leakage)

Bronze, PN10, DN50 - 400mm

O-2.6.21-A



APPLICATIONS

Control valve type L3FMT-ULL 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.

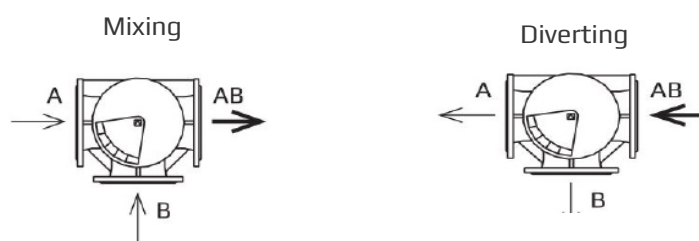
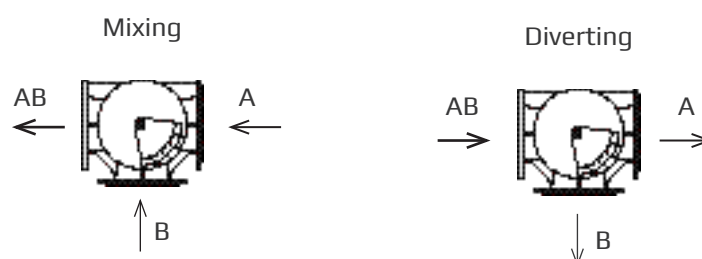
TECHNICAL DATA

Materials:	
- Valve body	Bronze
- Slide	Aluminum bronze
- 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 on AB right or AB left
- Sea water resistant

Subject to change without notice.

PORT NUMBERING: AB-RIGHT**PORT NUMBERING: AB-LEFT****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.

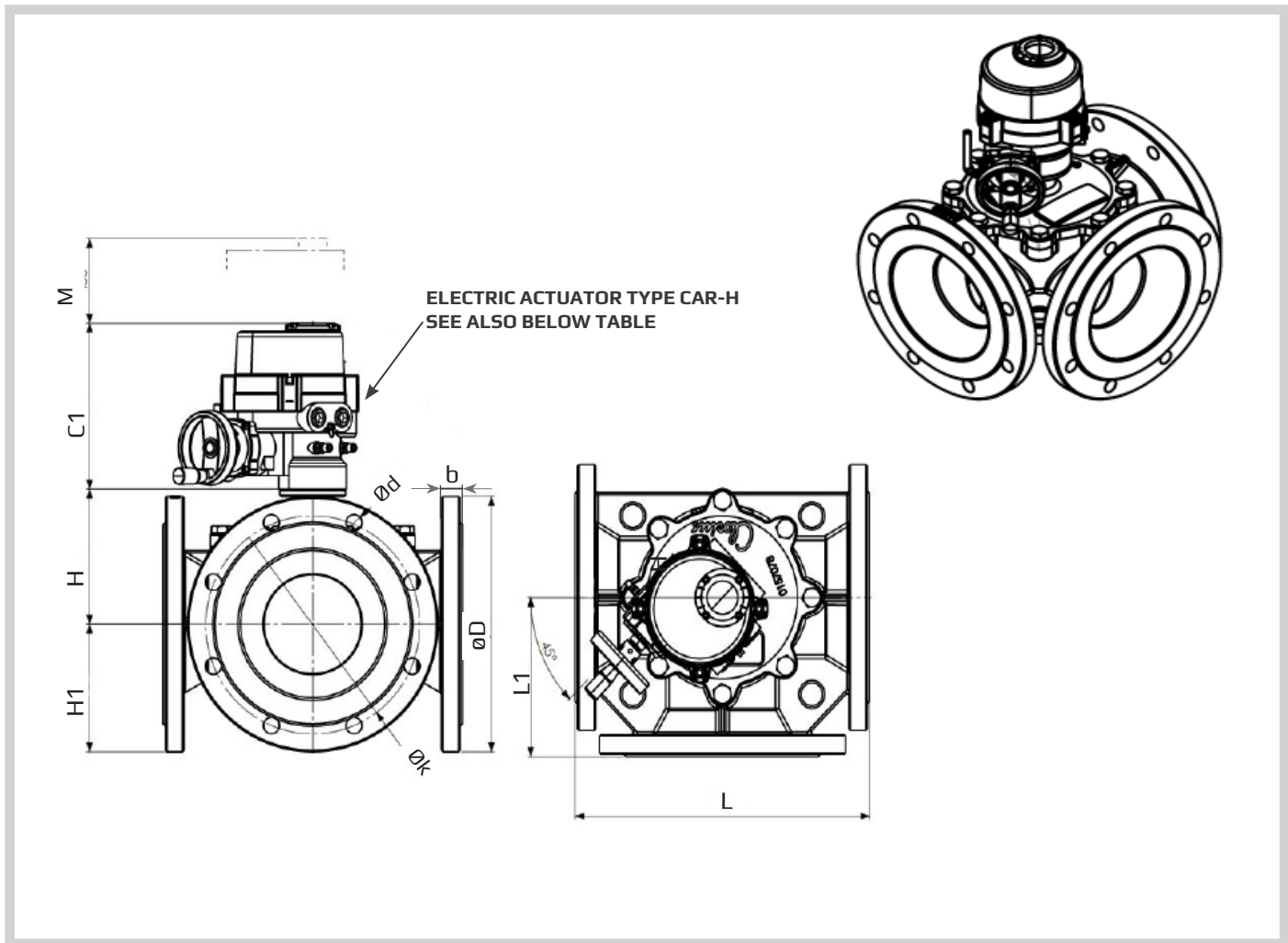
3-way Control Valve type L3FMT-ULL (Ultra Low Leakage)

Bronze, PN10, DN50 - 400mm

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DIMENSION SKETCH



To be read together with table 1 on page 4

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
50 L3FMT- ULL (HF)	254	127	115	ØD/2	19	223	110	CAR-H 006
65 L3FMT - ULL	254	127	115	ØD/2	19	223	110	CAR-H 006
65 L3FMT - ULL (HF)	254	127	126	ØD/2	19	223	110	CAR-H 006
80 L3FMT-ULL	254	127	126	ØD/2	19	223	110	CAR-H 006
80 L3FMT-ULL (HF)	254	127	131	ØD/2	19	223	110	CAR-H 006
100 L3FMT-ULL	296	148	131	ØD/2	24	223	110	CAR-H 006
100 L3FMT-ULL (HF)	296	148	140	ØD/2	24	223	110	CAR-H 006
125 L3FMT-ULL	330	165	140	ØD/2	24	223	110	CAR-H 006
150 L3FMT-ULL	356	178	149	ØD/2	25,4	223	110	CAR-H 010
200 L3FMT-ULL	410	205	182	ØD/2	28,4	261	150	CAR-H 016
250 L3FMT-ULL	480	240	202	ØD/2	31	261	150	CAR-H -016
300 L3FMT-ULL (RF)	580	290	202	ØD/2	32	261	180	CAR-H -016
300 L3FMT-ULL	560	280	237	ØD/2	32	315	180	CAR-H -035
350 L3FMT-ULL	660	330	256	ØD/2	36	315	180	CAR-H 050
400 L3FMT-ULL	720	360	278	ØD/2	38	315	180	CAR-H 080
400 L3FMT-ULL (HF)	720	360	314	ØD/2	25	352	200	CAR-H 080

RF = Reduced Flow
HF = High Flow

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

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

Bronze, PN10, DN50 - 400mm

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SPECIFICATIONS - TABLE 2	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)
DN50	165	125	19x(4)	152	121	19x(4)	130	105	15x(4)	155	120	19x(4)
DN65	185	145	19x(4)	178	140	19x(4)	155	130	15x(4)	175	140	19x(4)
DN80	200	160	19x(8)	190	152	19x(4)	180	145	19x(4)	185	150	19x(8)
DN100	220	180	19x(8)	230	191	19x(8)	200	165	19x(8)	210	175	19x(8)
DN125	250	210	19x(8)	255	216	22x(8)	235	200	19x(8)	250	210	23x(8)
DN150	285	240	23x(8)	280	241	22x(8)	265	230	19x(8)	280	240	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)
DN300	455	400	23x(12)	483	432	25x(12)	430	390	23x(12)	445	400	25x(16)
DN350	505	460	23x(16)	533	476	29x(12)	480	435	25x(12)	490	445	25x(16)
DN400	565	515	28x(16)	597	540	29x(16)	540	495	25x(16)	560	510	27x(16)

Subject to change without notice.

SPECIFICATIONS - TABLE 3

Type	Flange connection DN in mm	KvS m ³ /h**	Torque Nm For inlet P*	Weight kg
DN50 (HF)	50	67	30	19
DN65	65	67	30	22
DN65 (HF)	65	120	30	23
DN80	80	100	35	24
DN80 (HF)	80	180	35	26
DN100	100	180	38	32
DN100 (HF)	100	270	38	34
DN125	125	260	40	41
DN150	150	430	90	50
DN200	200	770	120	80
DN250	250	1.230	150	114
DN300	300	2.030	320	153
DN350	350	2.850	418	210
DN400	400	3.760	530	258
DN400 (HF)	400	5.200	650	248

*Torque calculated at max ΔP for: DN50 - DN400 - 5 Bar

**NOTE: KvS is max. KvS value

HF = High Flow