

BALL VALVE

AL 17-39M

3-way valve

Description

AL 17-39M is a 3-way stainless full bore steel ball valve with mounting plate according to ISO 5211. Various flow directions with L-ball or T-ball. Manual with hand lever and locking device or optional with direct mounted actuator. Unique stem seal for long and reliable operation.

Applications: 3-way mixing and directional valve for neutral to aggressive liquids and gases. The valve has four seals, which provides more choices of flow directions, but is not intended as a shut-off valve for higher differential pressures. Contact us for more information.

Type:	AL 17-39ML - L-ball AL 17-39MT - T-ball
Marking:	The valve is marked AL 17-39
Dimension:	DN 8-50
Connection:	Thread
Pressure class:	PN 63
Pressure:	Maximum 63 bar / 55 bar.
Temperature:	-20° - +200°C (see pressure/temp.diagramme)

Stem seal

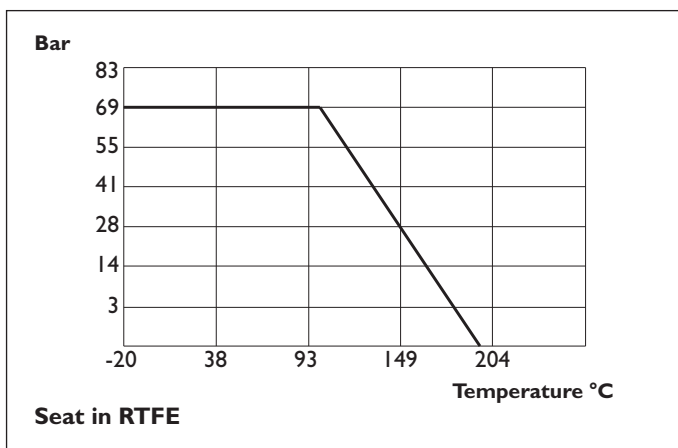
Stem seal is designed for long, reliable operation even at a larger number of controls. The seal consists of a combination of:

- Stem seal in RPTFE with a 45 degree bevel.
- O-ring in Viton.
- V-seals in Chevron V-ring PTFE x 3 pcs.
- Gland in SS 2343
- Spring washers, Belleville washers for continuous engagement of the box.
- Stem, polished for best seal.

Approvals

- CE/PED 2014/68/EU
- ATEX 2014/34/EU
- TÜF CE/PED documentation from Transworld Steel Enterprise.
- TA Luft

Pressure / Temperature



Installation

The valve can be installed in horizontal and vertical lines. The valve is maintenance free but should be operated at regular intervals depending on the installation.

Optional

- NPT thread
- Electric actuator
- Pneumatic actuator

Actuator sizing

Media clean water 20°C and 16 bar, safety factor 30%. Supply air 6 bar.

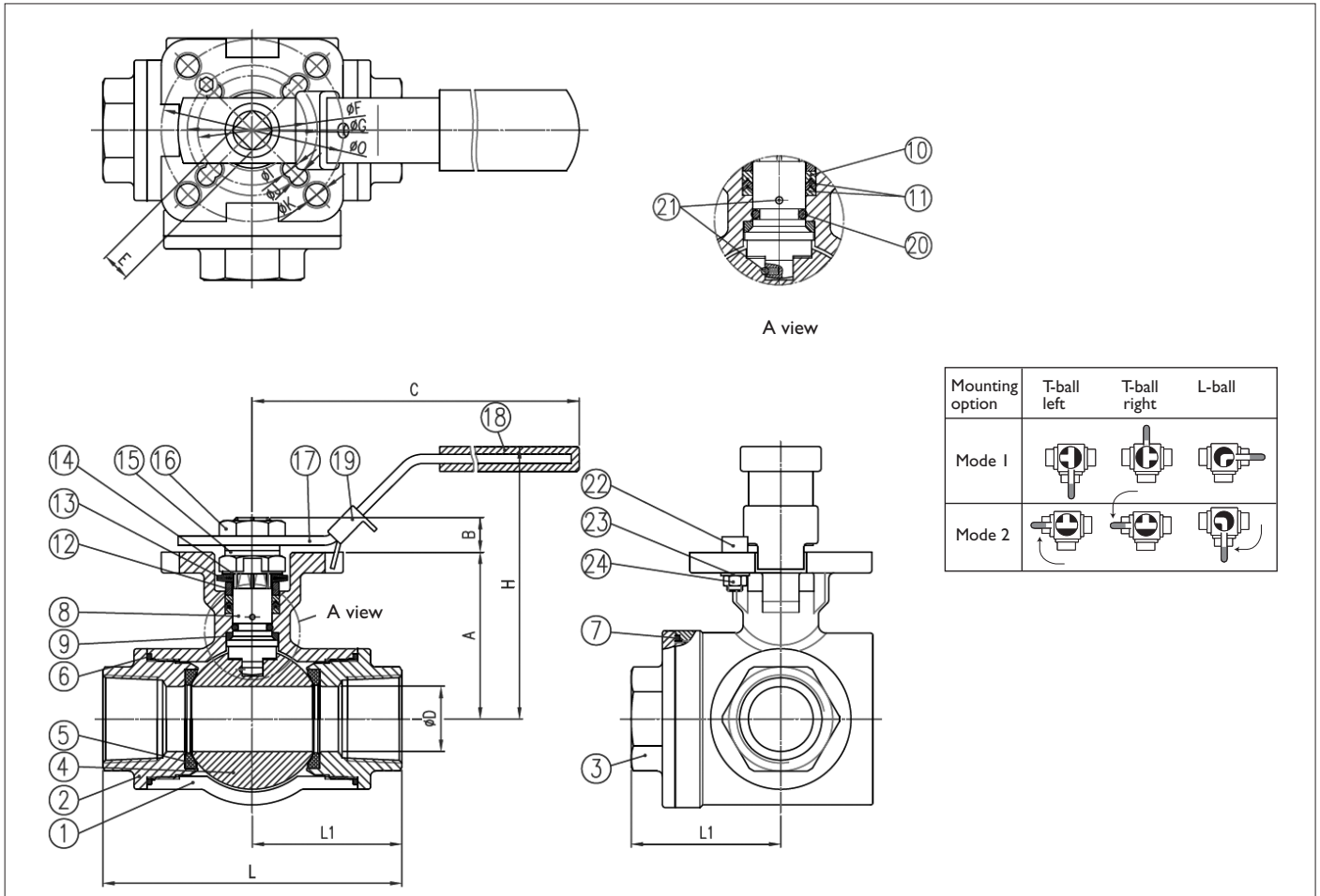
Valve DN	Torque Nm	AL 77		AL 78	AL 79	
		DA	SR	Electr.	DA	SR
8	9	210-DA	210-SR	003	045U-DA	051U-SR
10	9	210-DA	210-SR	003	045U-DA	051U-SR
15	12	210-DA	210-SR	003	045U-DA	101U-SR
20	17	210-DA	220-SR	003	101U-DA	201U-SR
25	40	220-DA	230-SR	005	201U-DA	251U-SR
32	46	220-DA	230-SR	005	201U-DA	251U-SR
40	56	230-DA	230-SR	006	251U-DA	301U-SR
50	103	230-DA	240-SR	015	251U-DA	351U-SR

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Material specification / Dimensions



DN	A	B	C	ØD	E	ØF	ØG	ØO	H	ØI	ØJ	ØK	L	LI	ISO 521 I	Weight, kg
8	38,1	9	140	11	9	36	42	-	75	6	6	-	72	36	F03/F04	0,7
10	38,1	9	140	12,5	9	36	42	-	75	6	6	-	72	36	F03/F04	0,7
15	43,9	9	151	15	9	36	42	50	88	6,5	7	-	83	41,5	F03/F04/F05	0,9
20	54,2	10,5	166	20	11	42	50	-	93	6	7	-	99	49,5	F04/F05	1,5
25	64,1	10,5	183	25	11	42	50	70	109	6,5	7	9	112	56	F04/F05/F07	2,2
32	78,5	13,5	216	32	14	50	70	-	128	7,5	9	-	125	62,5	F05/F07	3,3
40	94,9	18,5	263	38	17	70	102	-	154	10	12	-	149	74,5	F07/F10	5,3
50	101,6	19,5	313	50	17	70	102	-	161	10	12	-	174	87	F07/F10	9,5

Pos	No	Part	Material
1	1	Body	CF8M
2	2	End cap	CF8M
3	1	End cap	CF8M
4	1	Ball	SS 316
5	4	Seat	RTFE
6	2	Packing	PTFE
7	1	Packing	PTFE
8	1	Stem	SS 316
9	1	Seat	RTFE
10	1	Stem seal	RTFE
11	*	Stem seal	PTFE
12	1	Gland	SS 304

Pos	No	Part	Material
13	2	Belleville washer	SS 301
14	1	Lock saddle	SS 304
15	1	Stem washer	SS 304
16	2	Nut hand lever	SS 304
17	1	Hand lever	SS 304
18	1	Plastic cover hand lever	Vinyl
19	1	Locking device	SS 304
20	1	O-ring	Viton
21	2	Antistatic device	SS 316
22	1	Stop pin	SS 304
23	1	Washer	SS 304
24	1	Nut	SS 304

* DN 8-10: 1 pcs DN 15-32: 2 pcs DN 40-50: 3 pcs



Telephone +46 10 455 97 00 • sales@axel-larsson.se • www.axel-larsson.se

STOCKHOLM | GÖTEBORG | MOTALA | FALUN | UMEÅ

Head Office: Truckvägen 12, P.O. Box 805, SE-194 28 Upplands Väsby (Stockholm), Sweden.