Ball Valve

PROFIN VT2L

Type Series Booklet

Legal information/Copyright

Type Series Booklet PROFIN VT2L

Contents

Ball Valves

Two-piece Ball Valves

PROFIN VT2L

Main applications

- Building services
- Industrial plants
- Water
- Air-conditioning systems
- Condensate transport
- Cooling circuits
- Fire-fighting systems
- General irrigation systems
- Pressure boosting
- Snow-making systems
- Swimming pools
- Washing plants
- Water supply systems

Fluids handled

- Condensate
- Cooling water
- Corrosive fluids
- Drinking water
- Fire-fighting water
- Lubricants
- Oil
- River water, lake water and groundwater
- Service water
- Wash water

Operating data

Operating properties

Characteristic	Value
Nominal pressure	PN 40
Nominal size	8 - 80
Nominal size [inch]	¼ - 3
Max. permissible pressure [bar]	40
Min. permissible temperature [°C]	≥ -20
Max. permissible temperature [°C]	≤ +150

Selection as per pressure/temperature ratings (⇨ Page 5)

Valve body materials

Overview of available materials

Material	Material number	Temperature limit
ASTM A351 CF8M	1.4408	≤ 150 °C

Design details

Design

- Two-piece ball valve
- Full bore
- Locking lever
- Threaded ends, BSP DIN EN 10226-1/ISO 7-1
- Blowout-proof shaft
- Anti-static design
- Design to ASME B16.34
- Solid ball

Product benefits

- Added safety by blowout-proof shaft
- Valve can be locked in open or closed position.
- Anti-static design prevents electrostatic charging during operation.

Product information

Product information as per Regulation No. 1907/2006 (REACH)

For information as per chemicals Regulation (EC) No. 1907/2006 (REACH), see http://www.ksb.com/reach.

Purchase order specifications

Please specify the following information in all enquiries or purchase orders:

1. Type
2. Nominal pressure
3. Nominal size
4. Operating pressure
5. Differential pressure
6. Operating temperature
7. Fluid handled
8. Pipe connection
9. Reference number

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Pressure/temperature ratings

Permissible operating pressures [bar] (to ASME B16.34)

PN	Material	[°C]										
		-20 to 100	105	110	115	120	125	130	135	140	145	150
40	ASTM A 351 CF8M	40	36	32	28	24	20	16	12	8	4	0

Materials

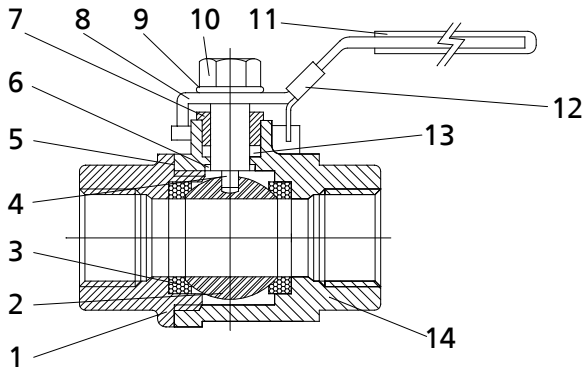

Fig. 1: Sectional drawing

Parts list

Part No.	Description	Material	Material number	Note
1	End cap	ASTM A 351 CF8M	1.4408	-
2	Ball	ASTM A 351 CF8M	1.4408	-
3	Seat	RTFE	-	Standard
		PTFE	-	Variant
4	Shaft	AISI 316	-	-
5	Joint ring	PTFE	-	-
6	Thrust washer	PTFE	-	-
7	Gland nut	AISI 304	-	-
8	Lever	AISI 304	-	-
9	Washer	AISI 304	-	-
10	Shaft nut	AISI 304	-	-
11	Plastic sleeve	PVC	-	-
12	Locking device	-	-	-
13	Shaft packing	PTFE	-	-
14	Body	ASTM A 351 CF8M	1.4408	-

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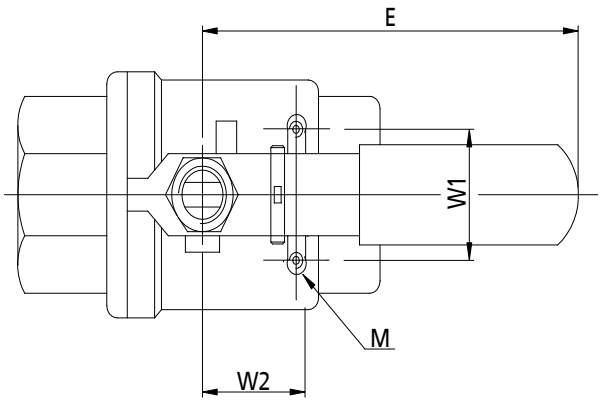
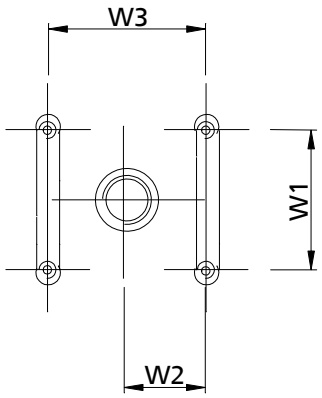
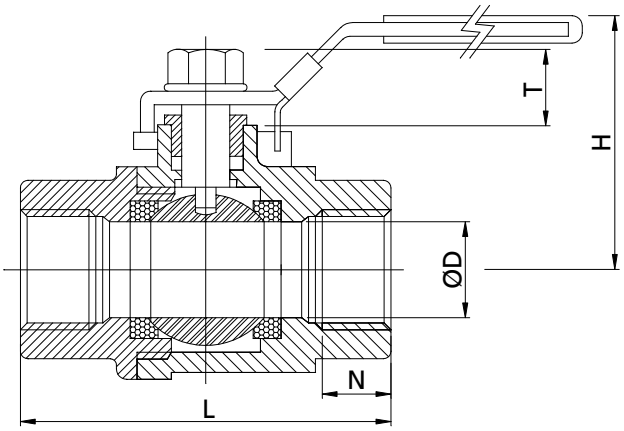
Dimensions and weights



DN 8 - 40



DN 50 - 80



DN 8 - 80

Fig. 2: Dimensions

Dimensions and weights

PN	DN	ØD	L	H	E	W1	W2	W3	M	N	T	[kg]
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
40	8	12,5	50	48	106	28,5	13,0	-	10-24 UNC	10,5	23,0	0,23
	10	12,5	60	48	106	28,5	13,0	-	10-24 UNC	16,0	23,0	0,27
	15	15,0	75	54	106	28,5	13,0	-	10-24 UNC	18,0	28,0	0,34
	20	20,0	80	61	132	34,5	23,0	-	10-24 UNC	18,0	29,5	0,44
	25	25,0	90	71	152	34,5	23,0	-	1/4-20 UNC	24,0	33,0	0,78
	32	32,0	110	75	152	37,5	25,4	-	1/4-20 UNC	27,0	33,0	1,2
	40	38,0	120	91	193	37,5	25,4	-	1/4-20 UNC	26,0	36,0	1,65
	50	50,0	140	100	193	38,0	25,4	50	1/4-20 UNC	30,0	35,0	2,78
	65	65,0	185	142	260	55,0	35,5	71	1/4-20 UNC	40,0	57,0	5,4
	80	76,2	205	142	260	55,0	35,5	71	1/4-20 UNC	41,0	57,0	7,88

Mating dimensions as per standard

Face-to-face lengths: See table
Threaded ends: BSP DIN EN 10226-1/ISO 7/1

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