

SMS Ball valves

Model 61368 2-way ball valve with ISO mounting plate, plain ends - 304 or 316L stainless steel



Specifications

Dimensions: DN25 to DN104 (1" to 4")

Connections: to be welded

Operating pressure: PN16

Temperature: -20°C to +90°C

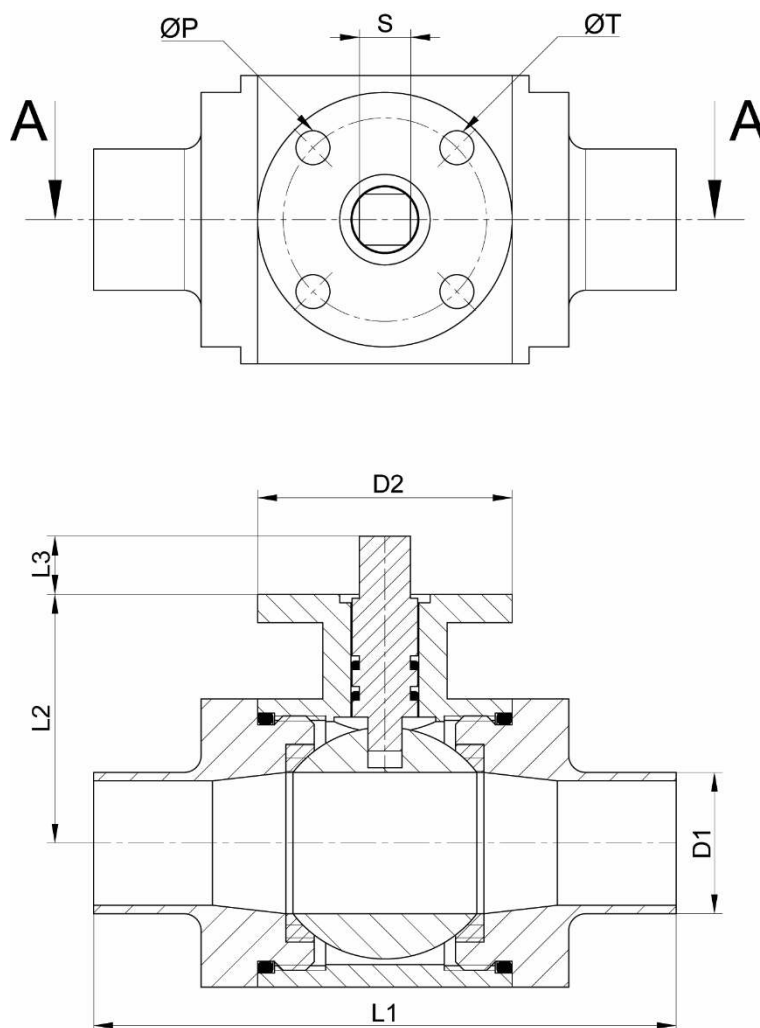
Material: 304 or 316L stainless steel
(for the parts in contact with the fluid)

PTFE and NBR gaskets as standard



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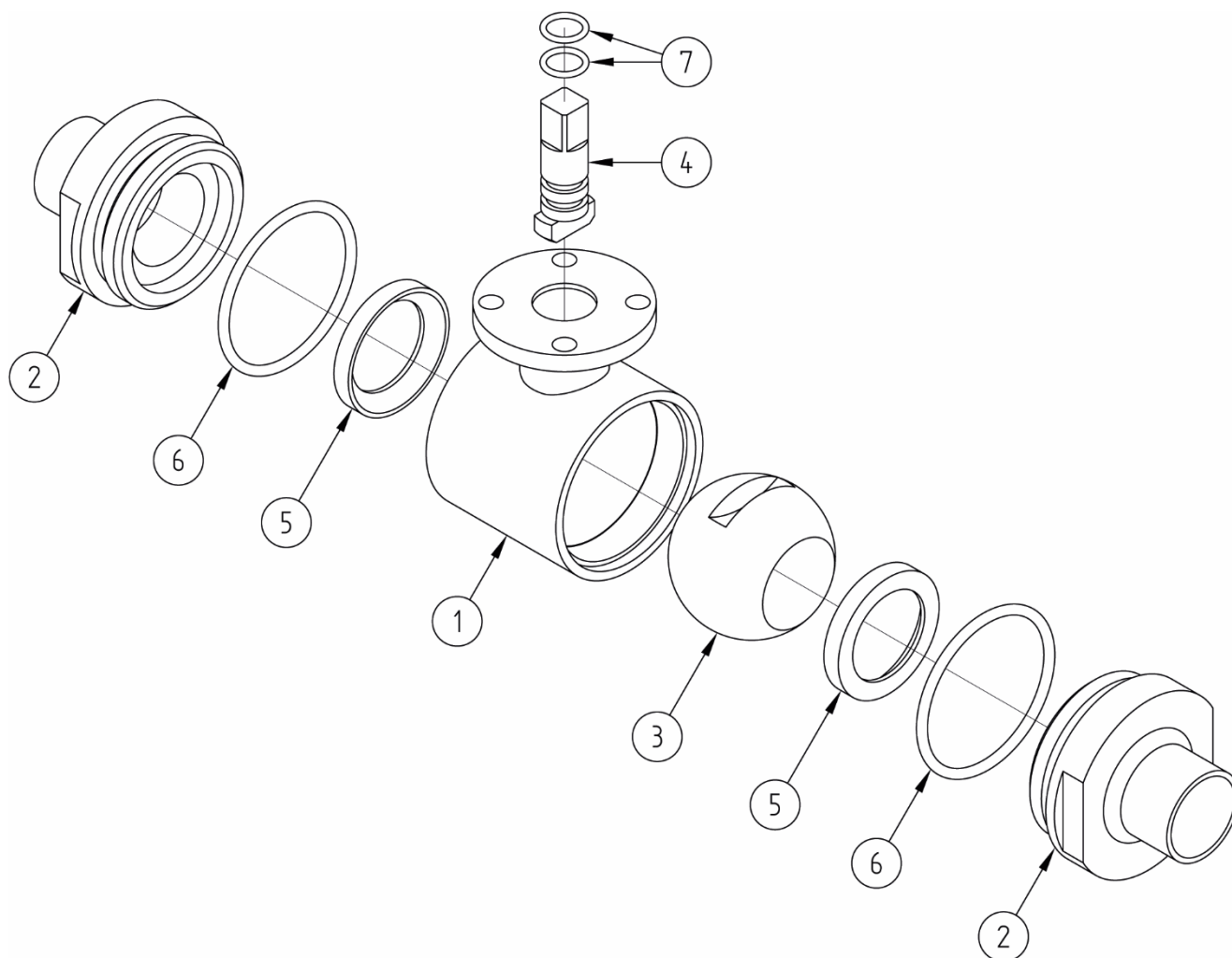
A-A Cross Section

DN (mm)	NB (inches)	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	ISO mounting plate	S (mm)	ØP (mm)	ØT (mm)	Weight (kg)	Part number SS 304	Part number SS 316L
25	1"	25	45	103	44.5	10	F03	9	36	6	0.90	261368-25	661368-25
38	1 1/2"	38	64	131	60.5	12	F05	11	50	6.5	1.10	261368-38	661368-38
51	2"	51	64	138	68	12	F05	11	50	6.5	1.90	261368-51	661368-51
63	2 1/2"	63.5	85	150	90.5	16	F07	14	70	6.5	3.80	261368-63	661368-63
76	3"	76.1	85	181	95	16	F07	14	70	9	5.20	261368-76	661368-76
104	4"	104	85	206	112	19	F07	17	70	9	8.60	261368-104	661368-104
DN (mm)	NB (inches)	Pneumatic motor		Electric motor									
		Spring return	Double-Acting type	50835	50840	50844							
25	1"	VP50	VP50	UMA35	ER20	-							
38	1 1/2"	VP75	VP63	UMA35	ER35X	VR45							
51	2"	VP75	VP75	UMC10	ER60	VR75							
63	2 1/2"	VP88	VP88	UMC10	ER100	VS100							
76	3"	VP125	VP100	UMC15	-	VS150							
104	4"	VP125	VP100	UMC15	-	VS150							

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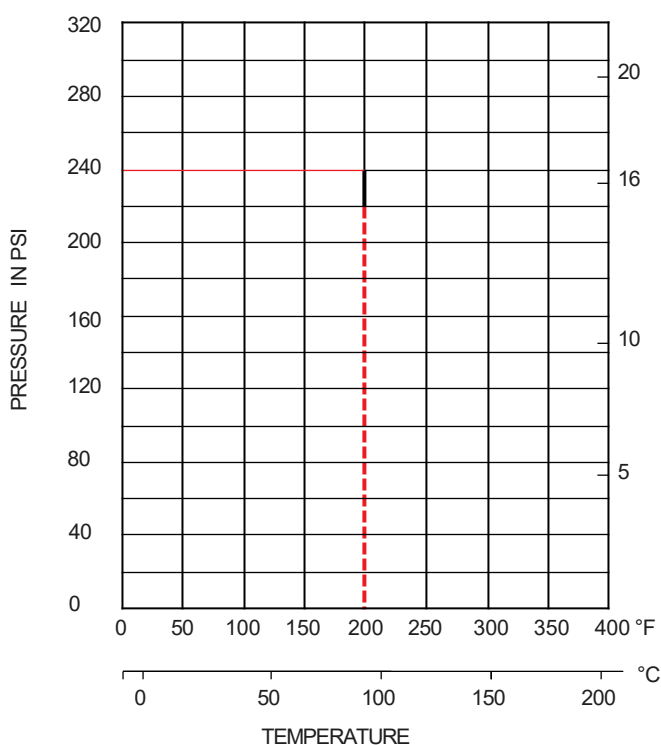


N°	Part Name	Material	Quantity
1	BODY	AISI 304 / AISI 316	1
2	PLAIN END FLANGE	AISI 304 / AISI 316	2
3	BALL	AISI 304 / AISI 316	1
4	SHAFT	AISI 304 / AISI 316	1
5	SEAT	PTFE	2
6	GASKET (END FLANGE/BODY)	NBR	2
7	GASKET (SHAFT/BODY)	NBR	2

Use

Pressure and temperature

For pressure/temperature ratings, see the graph below.



Warning: If the ball valve is used with fluids that have a temperature above 60°C then people could burn themselves if they touch the ball valve.

Fluids

This valve is suitable for non-abrasive and non-coagulable fluids, as long as the fluids are chemically compatible with the valve parts that they can come into contact with.

Assembly and maintenance instructions

Installation

You can install the valve in any position. However, check that all fluids can flow through it freely.

Check that all piping is perfectly aligned and that the piping support structure is dimensioned so that the valve is not subject to any external stresses. The piping support structure must only support the pipes, not the valve.

How to install a valve with plain ends:

Welding must be carried out by qualified personnel.

You do not need to disassemble the valve to weld it to the piping.

However, you must avoid overheating the plain end flanges, as this would damage the gaskets between the flanges and the valve body (part **6**).

Clean the installation and check that the equipment is clean and free from foreign bodies that could damage the valve.

Pressure test the installation according to the relevant standards (e.g. EN 12266-1), but do not exceed the valve's specifications.

Maintenance

The valve does not require any specific maintenance if it is used in normal operating conditions.

If the valve is never opened or closed during normal operation then you should regularly open and close the valve to check that it is still working correctly.

You may need to change some of the valve's parts due to unusual wear and tear, or if a fluid has damaged the valve and caused a leak or malfunction.

If this is the case see the "Assembly / Disassembly" section below.

Assembly / Disassembly

The maintenance and removal/reassembly of the valve must be carried out by personnel who are qualified and trained for this type of intervention.



Warning: Before you work on the valve, check that the installation has been stopped and that the piping is empty and is not pressurised.

Warning: If the ball valve is used with fluids that have a temperature above 60°C then people could burn themselves if they touch the ball valve.

Warning: Beware of hazardous materials - follow the instructions provided by the suppliers.

Close the valve.

Unscrew the two plain end flanges **2** and remove the two seat parts **5**.

Push on the ball **3** to extract it.

Press the shaft **4**, to remove it from the body.

Replace the worn gaskets (parts **5,6** and **7**)

Pressure test the valve and check that it can be opened and closed before you put the installation back into service.

Standards and compliance

- This valve complies with the European Pressure Equipment Directive (PED) 2014/68/EU Article 4 paragraph 3 (formerly 97/23/EC Article 3 paragraph 3)
- This valve complies with EC Directive 1935/2004