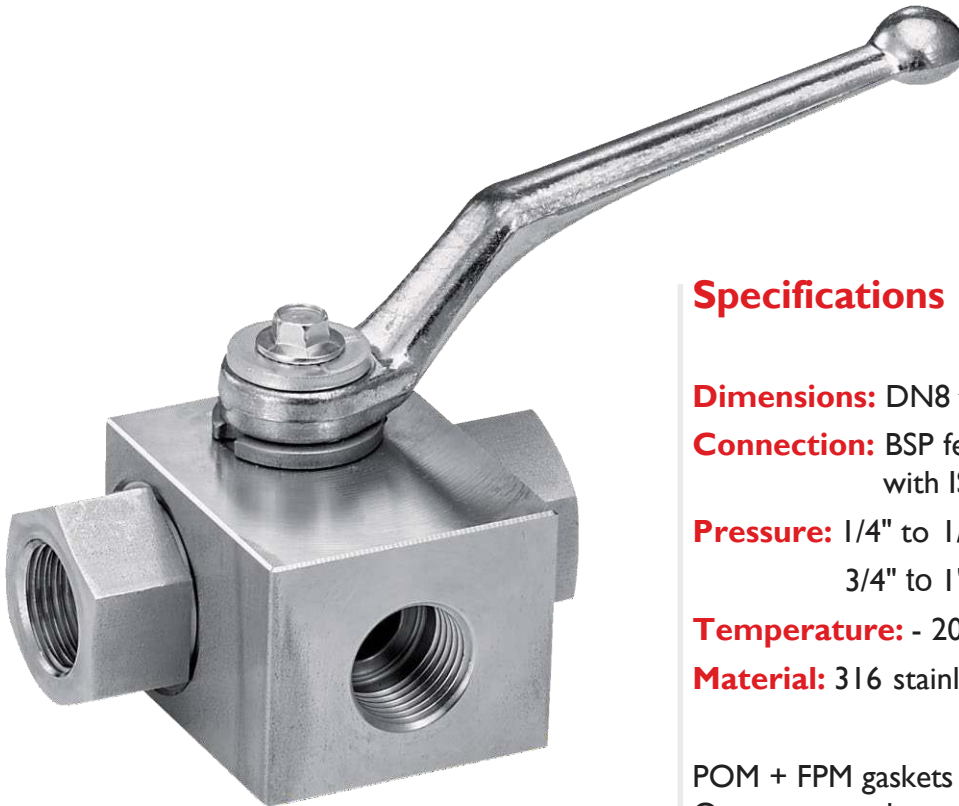


Ball valves

Model 58533 **3-way high pressure ball valve BSP female threaded - 316 stainless steel**
L-shaped bore



Specifications

Dimensions: DN8 to DN25 (1/4" to 1")

Connection: BSP female thread in accordance with ISO 228-1

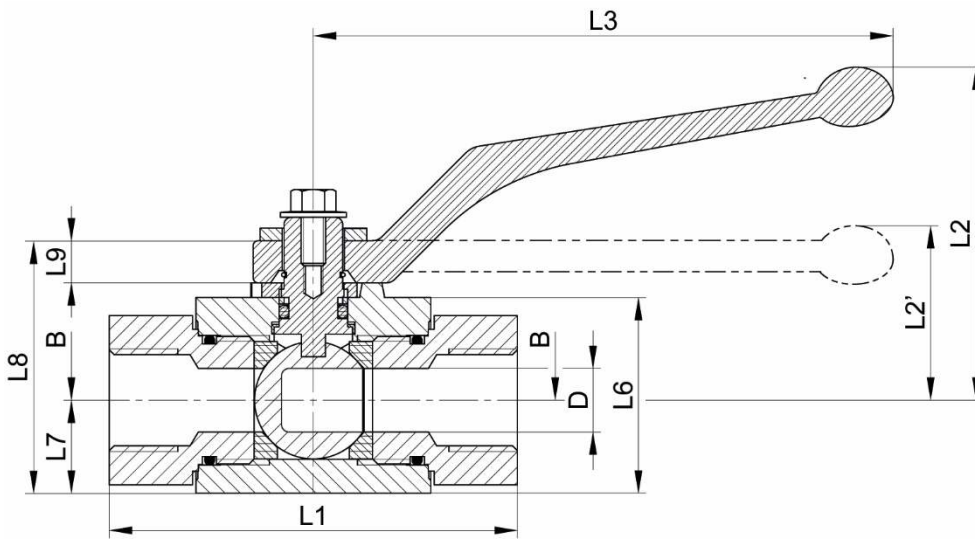
Pressure: 1/4" to 1/2" - PN500
3/4" to 1" - PN315

Temperature: - 20°C to +100°C

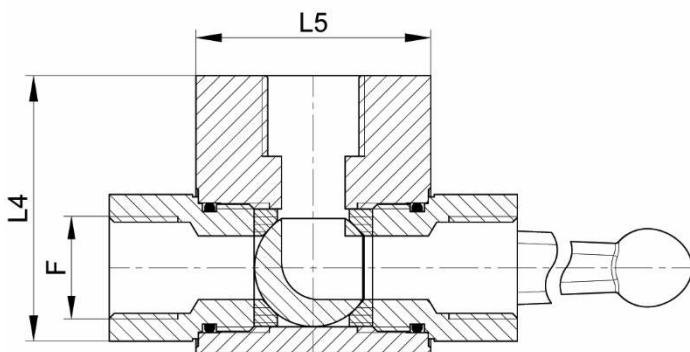
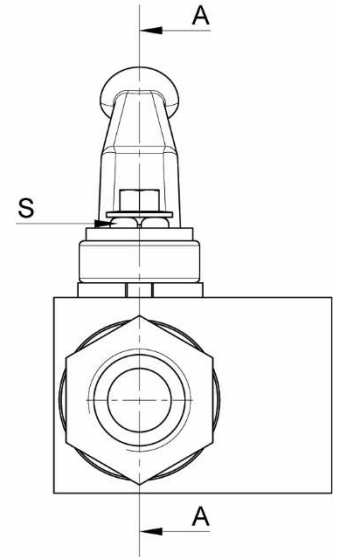
Material: 316 stainless steel

POM + FPM gaskets

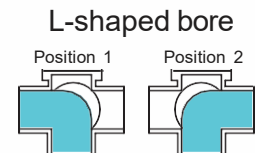
On request: other materials, version that can be motorised



A-A Cross Section



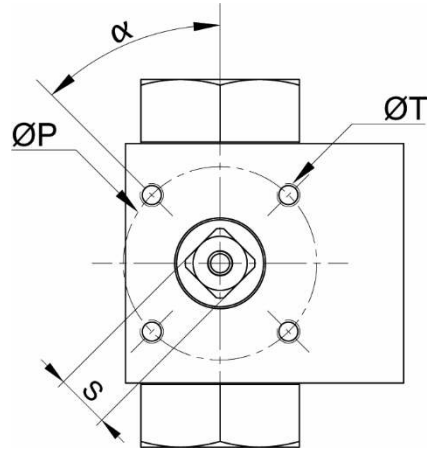
B-B Cross Section



DN (mm)	NB (inches)	D (mm)	F (inches)	L1 (mm)	L2 (mm)	L2' (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	S (mm)	Weight (kg)	Part number
8	1/4"	6	1/4"	69	69	-	117	34.5	40	33	13.5	47	11	9	0.40	458533-8
10	3/8"	10	3/8"	72	70	-	117	36	43	38	17.5	52	11	9	0.60	458533-10
15	1/2"	13	1/2"	83	71	-	117	39.5	48	40	19	54	11	9	0.90	458533-15
20	3/4"	20	3/4"	95	-	56*	200	47.5	62	57	24.5	75	14	14	1.50	458533-20
25	1"	25	1"	113	-	59*	200	56.5	66	65	29.5	83	14	14	2.20	458533-25

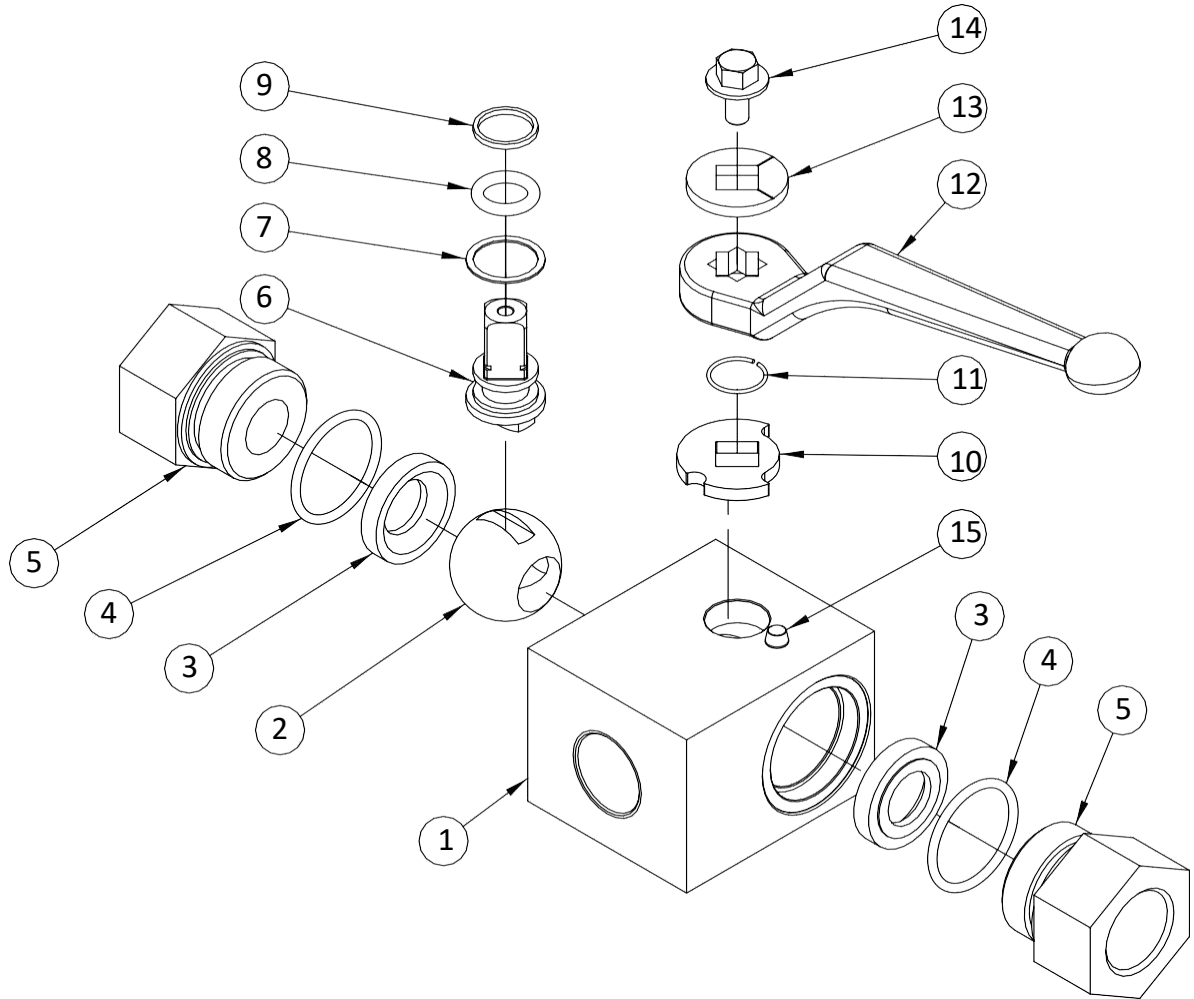
* flat handle

Model **58533M**: Version without a handle that can be motorised



DN (mm)	ISO mounting plate	S (mm)	ØP (mm)	ØT (mm)	α (°)
8	F03*	9	36	M5	30*
10	F03	9	36	M5	45
15	F03	9	36	M5	45
20	F05	14	50	M6	45
25	F05	14	50	M6	45

*30° does not correspond to the ISO 5211 standard



N°	Part Name	Material
1	BODY	SS316
2	BALL	SS316
3	SEAT RING	POM
4	O-RING	FPM
5	FLANGE (FEMALE THREADED END)	SS316
6	SHAFT	SS316
7	STAINLESS STEEL RING (SHAFT)	SS316
8	O-RING (SHAFT)	PTFE
9	ANTI EXTRUSION BACK UP RING (SHAFT)	SS316
10	HANDLE STOP WASHER	SS316
11	RETAINING RING	SS316
12	HANDLE	ALUMINUM
13	HANDLE WASHER	SS316
14	SCREW (HANDLE)	SS316
15	STOP PIN	SS316

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Technical information, illustrations and photographs are provided for information only, they are not contractual. Some may vary according to the tolerances accepted in the profession and the applicable standards. All instructions for use, disassembly and maintenance are recommendations only. These could also vary depending on product usage conditions, its installation environment and purchaser requirements – of which the purchaser alone is responsible for their definition.

Assembly and maintenance instructions

Installation

You can install the valve in any position. However, check that there is enough space to move the valve's handle where you are planning to install the valve.

Check that the installation is clean and free from foreign bodies that could damage the valve.

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 female threaded ends:

You must not use the valve's body or handle when you are tightening the assembly (this could damage the valve).

You must use a flat gasket that is suitable for the working conditions (BSP ISO 228-1) to make sure the threaded connections are sealed correctly.

Clean the installation leaving the valve open so that there are no foreign bodies between the ball and the body. Check the valve is operating correctly.

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

Maintenance

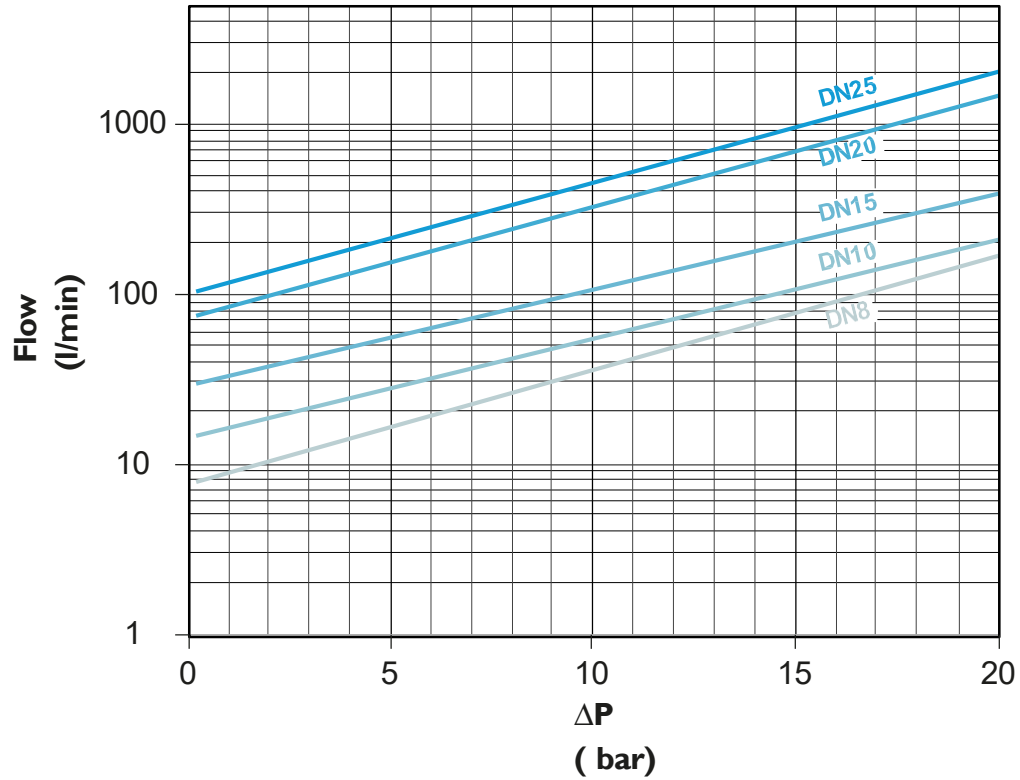
The valve does not require any specific maintenance if it is used in normal operating conditions.

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.

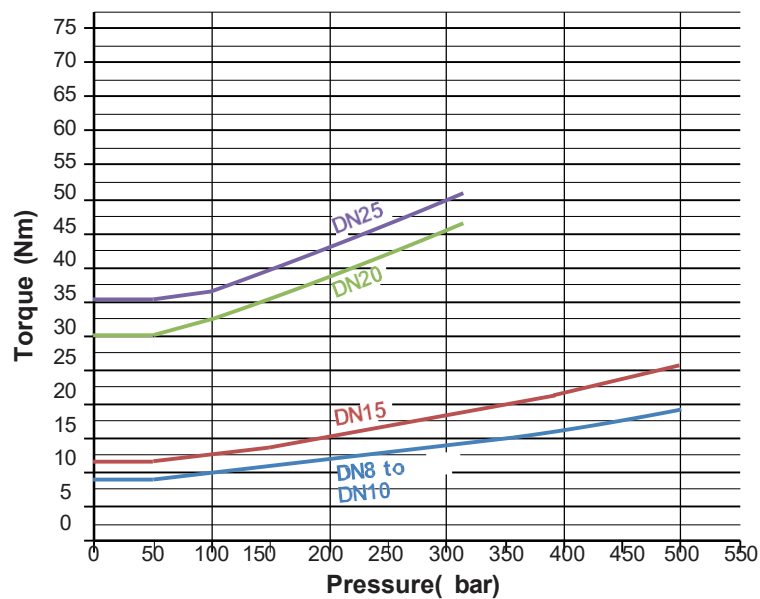
You may need to change some of the valve's parts due to unusual wear and tear, or if a fluid has damaged the valve and caused a leak or malfunction.

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

Flow coefficient



Operating torque



Assembly / Disassembly

The maintenance and removal/installation 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 valve.

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

Remove the valve and the flanges **5**.

Remove the o-rings **4** and the seat rings **3**.

Close the valve to remove the ball **2**. Check the condition of the ball's surface. You must replace it at the same time as the seat rings **3** if it is scratched or damaged.

If you need to replace the shaft's sealing, remove the parts from the upper part of the valve in the following order: screw **14**, handle washer **13**, handle **12**, retaining ring **11** and handle stop washer **10**. Push the shaft **6** towards the inside of the body **1** in order to remove it, and remove the o-ring **8** and the anti extrusion back up ring **9** (be careful you do not scratch the shaft).

Clean and inspect all of the parts of the valve. Replace any worn parts. You are strongly advised to replace all the shaft's sealing parts (gaskets and PTFE packing) if it has been disassembled, as well as the ball's POM seat rings and FPM o-rings.

Follow the disassembly steps in reverse order to reassemble the valve.

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

Standards and compliance

- Connection: BSP female thread in accordance with EN ISO 228-1
- Leak testing according to EN 12266 / API 598
- This valve complies with European Pressure Equipment Directive (PED) 2014/68/EU (formerly 97/23/EC)