Range 62
DIN STANDARD

DIN valves and accessories

Model 62413 Check valve, plain end/male end NBR gaskets - 316L stainless steel

Specifications

Dimensions: DN25 to DN100
Connections: to be welded/threaded according to DIN 405
Max. operating pressure: 10 bar
Temperature: -10°C to +90°C
Material: 316L stainless steel
NBR gaskets

ISO 9001 BUREAU VERITAS Certification

CE

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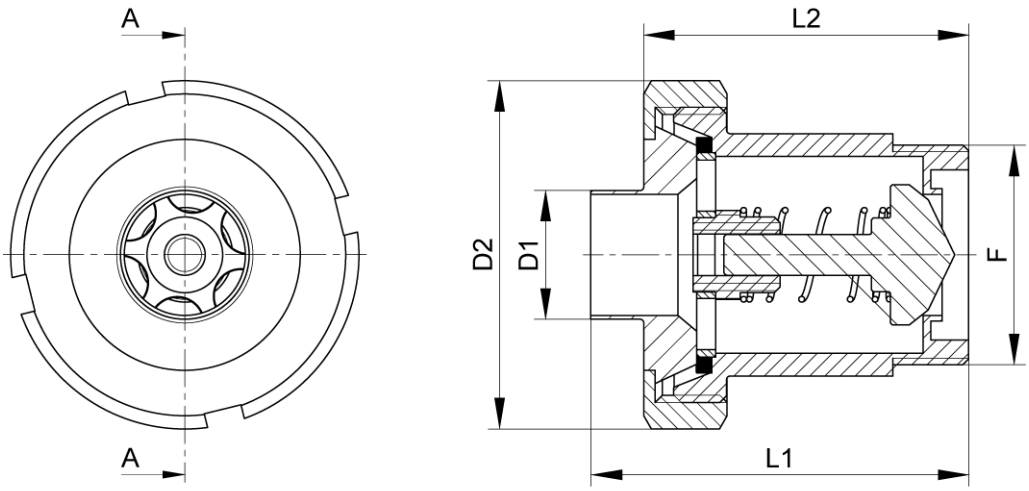

COUPE A-A

DN (mm)	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	F (mm)	Weight (kg)	Part number SS 316L
25	28	70	80	68	52x1/6"	1.25	**662413-25**
32	34	92	96	82	58x1/6"	1.45	**662413-32**
40	40	92	96	82	65x1/6"	1.70	**662413-40**
50	52	112	104	88	78x1/6"	2.70	**662413-50**
65	70	127	122	98	95x1/6"	4.90	**662413-65**
80	85	148	159	136	110x1/4"	7.70	**662413-80**
100	104	179	165	142	130x1/4"	9.50	**662413-100**

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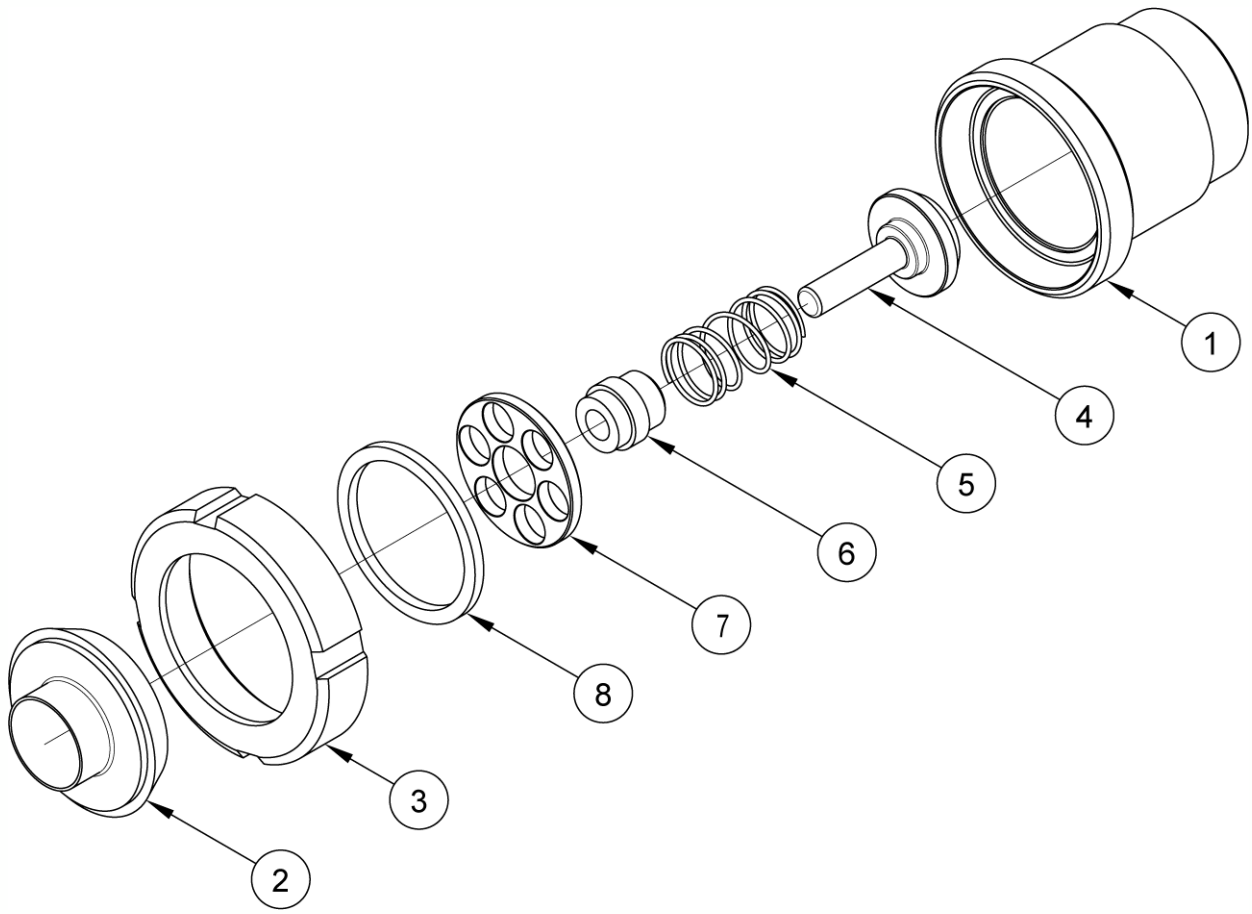

N°	Part Name	Material
1	LOWER BODY	AISI 316L
2	UPPER BODY	AISI 316L
3	NUT	AISI 316L
4	CHECK VALVE	AISI 316L
5	SPRING	AISI 302
6	SUPPORT RING	PTFE
7	FLANGE WITH HOLES	AISI 316L
8	HALF RING GASKET	NBR

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Assembly and maintenance instructions

Installation

When you install the check valve make sure that the arrow on it is pointing in the direction in which fluids will pass through it.

You can install it vertically with fluids moving upwards or downwards. The opening pressure will change depending on how you install the valve and its dimension.

DN (mm)	Downwards flow Opening pressure (bar)	Upwards flow Opening pressure (bar)
25	0.142	0.155
32	0.154	0.170
40	0.127	0.145
50	0.037	0.050
65	0.051	0.063
80	0.040	0.056

To make sure that the check valve can work optimally:

You must install the check valve sufficiently far away from any zones of turbulence generated by the piping (elbows, reductions, etc.) or by any another apparatus (pumps, etc.). You can do this by installing straight pipes (that are each at least 4 to 5 times longer than the check valve's DN) in front of and behind the check valve.

Check that there is enough space and there are enough valves to isolate this section so that you can carry out maintenance operations where you are planning to install the check valve.

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

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

How to install the non-return check valve (with welding)

Welding must be carried out by qualified personnel.

You must disassemble the check valve to avoid damaging its gaskets during welding.
Disassemble the check valve before you weld its two body parts to avoid damaging the gaskets.

Clean the installation so that there are no foreign bodies in the piping.
Check that the check valve can move smoothly.

Pressure test the installation according to the relevant standards, but do not exceed the check valve's specifications.

Maintenance

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

Depending on the fluid passing through the valve, you may need to change the gasket regularly.

You may need to change the check valve due to 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/installation of the check valve must be carried out by personnel who are qualified and trained for this type of intervention.

Warning: Before you work on the check valve, check that the installation has been stopped and that the piping is empty and is not pressurised.
Warning: If the check valve is used with fluids that have a temperature above 60°C then people could burn themselves if they touch it.
Warning: Beware of hazardous materials - follow the instructions provided by the suppliers.

Unscrew the DIN nut **3**.
Separate the two body parts (**1** and **2**) of the check valve in order to remove the gasket **8**, the flange with holes **7**, the PTFE support ring **6**, the spring **5** and the check valve **4**.
Clean and inspect all of the parts of the check valve. Replace any worn parts. You are strongly advised to replace any sealing parts (gasket **8** and support ring **6**) that have been disassembled.

Follow the disassembly steps in reverse to reassemble the check valve.
Pressure test the check valve and check the check valve's movement before you put the installation back into service.

Standards and compliance

- This valve complies with 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.