



SMS valves and accessories

Model 61413 Check valve, male ends EPDM gaskets - 316L stainless steel



Specifications

Dimensions: DN25 to DN104 (1" to 4") Connections: SMS thread in accordance with DIN 405 Max. operating pressure: 10 bar Temperature: -20°C to +130°C Material: 316L stainless steel EPDM gaskets FKM gaskets on request

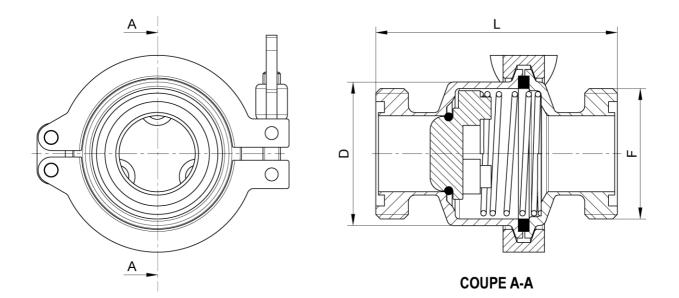


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Technical information, illustrations and photographs are provided for information only, they are not contractual. Some may vary according to the tolerances accepted in the profession and the applicable standards. All instructions for use, disassembly 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.







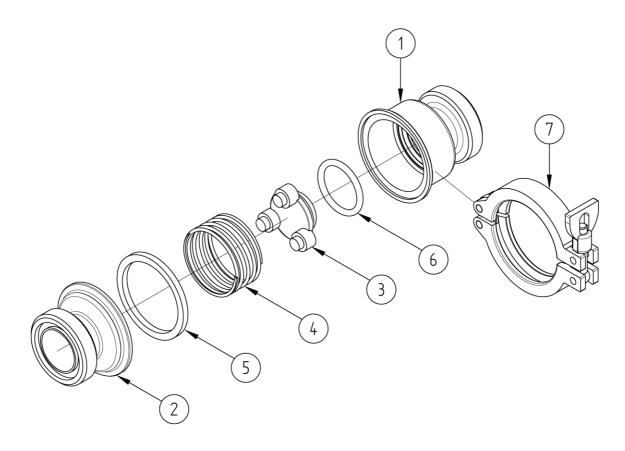
DN (mm)	NB (inches)	D (mm)	F (mm)	L (mm)	Opening pressure (mbar)	Weight (kg)	Part number SS 316L
25	1"	40	40x1/6"	93	112	0.65	661413-25SG
38	1''1/2	66	60x1/6"	111	70	1.42	661413-38SG
51	2"	83	70x1/6"	122.5	22	2.09	661413-51SG
63	2''1/2	96	85x1/6"	133	22	2.64	661413-63SG
76	3"	120	98x1/6"	137.5	48	3.60	661413-76SG
104	4"	152	125x1/4"	215	-	8.87	661413-104

Fluid flow velocity	Pressure drop (mbar)					
(m/s)	DN38	DN51	DN63	DN76		
1.5	180	90	160	100		
2.5	280	200	195	200		

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N°	Part Name	Material	
1	LOWER BODY	AISI 316L	
2	UPPER BODY	AISI 316L	
3*	CHECK VALVE	AISI 316L	
4*	SPRING	AISI 316L	
5	FLAT GASKET	EPDM OR FKM	
6	O-RING	EPDM OR FKM	
7	CLAMP COLLAR**	304L STAINLESS STEEL	

*For DN38 to DN76 valves, the spring is held onto the check valve by spot welds. **Nut for DN104

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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 (for fluids moving upwards) or horizontally.

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 value is not subject to any external stresses. The piping support structure must only support the pipes, not the check value.

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.





61413-B V1021

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 clamp 7.

Separate the upper and lower parts (1 and 2) of the check value in order to remove the gaskets 5 and 6, the spring 4 and the check value 3.

Clean and inspect all of the parts of the check valve. Replace any worn parts. You are strongly advised to replace any sealing parts 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.





DN (mm)	NB (inches)	N°	Part number	Material
	1"	2	JPL46365E	EPDM
25		2	JPL46365V	FKM
		3	RCA25	AISI 316L
		4	PCAR025	AISI 316L
		5	JTO12E	EPDM
		5	JTO12V	FKM
	1''1/2	2	JPL715605E	EPDM
		2	JPL715605V	FKM
		3	RCA38	AISI 316L
38		4	PCAR038	AISI 316L
		5	JTO21E	EPDM
		5	JTO21V	FKM
	2"	2	JPL845725E	EPDM
		2	JPL845725V	FKM
		3	RCA51	AISI 316L
51		4	PCAR051	AISI 316L
		5	JTO28E	EPDM
		5	JTO28V	FKM
	2"1/2	2	JPL100905E	EPDM
		2	JPL100905V	FKM
		3	RCA63	AISI 316L
63		4	PCAR063	AISI 316L
		5	JTO32E	EPDM
		5	JTO32V	FKM
	3"	2	JPL1241145E	EPDM
		2	JPL1241145V	FKM
		3	RCA38	AISI 316L
76		4	PCAR038	AISI 316L
		5	JTO36E	EPDM
		5	JTO36V	FKM

Please contact us for details for the DN104 valve.

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).

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• This valve complies with EC Directive 1935/2004.

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