

Description

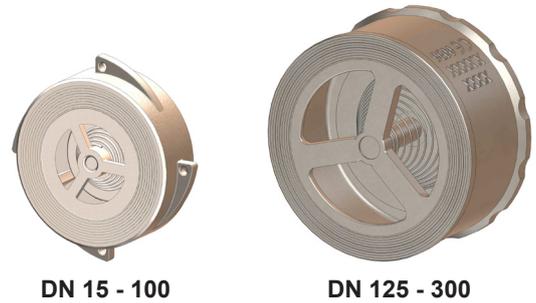
Disco check valves are suitable for liquids and gases in the industrial range as well as in systems where much higher demands are made on the material. Not suitable for media with solid components.

Product features

- Max. working pressure 40 bar
- Rating DN 15-100 PN 6 up to 40, ANSI 150 + 300
DN 125-300 PN 10 up to 40, ANSI 150
other ratings on request
- Temperature range DN 15-300 max. 400°C acc. to materials
- Face to face dimension DIN EN 558-1, series 49

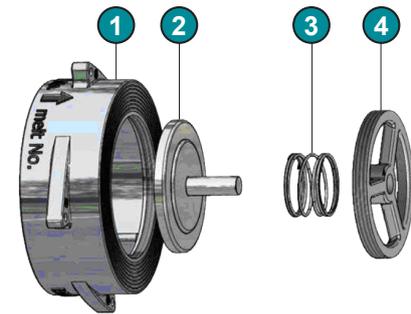


The disco check valves 932 meet the safety requirements of the pressure Equipments Directive 2014/68/EU (PED) appendix 1 for fluids of the groups 1 and 2.



DN 15 - 100

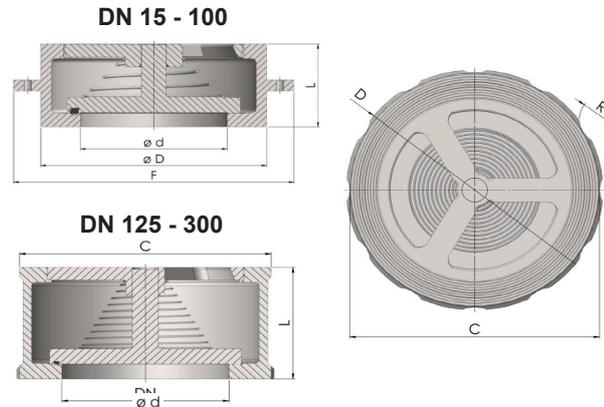
DN 125 - 300



Construction

1	Body
2	Disc
3	Spring
4	Spring retainer

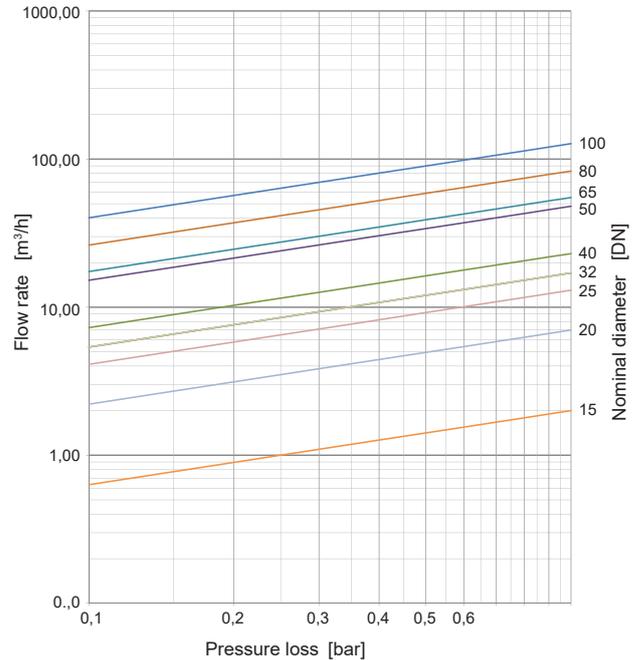
Dimensions



PN 10/16/25, ANSI 150					
DN	Ø d	Ø D	F	L	[Kg]
15	15	43	57	16	0,1
20	19	53	72	19	0,2
25	25	63	79	22	0,3
32	32	75	92	28	0,6
40	38	80	97	31,5	0,6
50	47	95	113	40	1,1
65	63	115	137	46	1,7
80	77	131	154	50	2,4
100	97,5	150	186	60	3,9

DN	Ø d	PN 10/16			PN 25		PN 40/ANSI 150		L
		C	D	R	C	R	D	D	
125	118,5	194	194	-	194	-	194	194	90
150	141	220	220	-	220	-	220	220	106
200	190	275	280	11	286	30	294	280	140
250	229	331	340	11	344	33	356	340	145
300	280	380	386	11	404	33	421	404	160

Pressure loss diagram



DN [mm]	kv [m³/h]	opening pressure [mbar]			without spring	
		↔	↑	↓	↑	↓
15	4	20	24	16	4	
20	7	20	25	15	5	
25	10	20	25	15	5	
32	17	20	26	14	6	
40	24	20	27	13	7	
50	37	20	28	12	8	
65	61	20	29	11	9	
80	74	20	30	10	10	
100	115	20	33	7	13	
125	201	30	46	14	16	
150	286	30	47	13	17	
200	553	30	51	9	21	
250	643	40	64	16	24	
300	867	40	68	12	38	

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Type code

DCV932	100	. 6	6	-	4C0	. 4C0	. T	-	FF
①	②	③	④	⑤	⑥	⑦	⑧		

① Type	DCV932	Disco check valves						
② Nominal Diameter	015-300	mm						
③ Working pressure	6	see table below max. operating temperature / pressure						
④ Rating	6	PN 6/10/16/25/40, ANSI B16.5 Cl.150/300					DN 15-100	
	6	PN 10/16/25/40, ANSI 150					DN 125-300	
⑤ + ⑥ Execution		Body	Disc	Spring retainer	Spring	Max. working pressure		
	5F0.5F0	Alu-Bronze CC333G (2.0975)	Alu-Bronze CC333G (2.0975)	Alu-Bronze CC333G (2.0975)	Hastelloy C4 (2.4610)	40 bar	DN 25-100	
	5F0.4U0	Alu-Bronze CC333G (2.0975)	Stainless steel 1.4408, A 351 CF8MC	Stainless steel 1.4408, A 351 CF8MC	Stainless steel 1.4408, 1.4571, AISI 316 Ti	40 bar		
	4W0.4W0	Superduplex 1.4469, A 890 Grade 5A	Superduplex 1.4469, A 890 Grade 5A	Superduplex 1.4469, A 890 Grade 5A	Hastelloy C4 (2.4610)	40 bar	DN 25-300	
	4W0.4C0	Superduplex 1.4469, A 890 Grade 5A	Stainless steel 1.4408, A 351 CF8MC	Stainless steel 1.4408, A 351 CF8MC	Stainless steel 1.4408, 1.4571, AISI 316 Ti	40 bar		
	4C0.4C0	Stainless steel 1.4408, AISI 316	Stainless steel 1.4408, AISI 316	Stainless steel 1.4408, AISI 316	Stainless steel 1.4571, AISI 316 Ti	40 bar		
	3HZ.4C0	Steel 1.0619, zinc plated, A 216 WCB	Stainless steel 1.4408, AISI 316	Stainless steel 1.4408, AISI 316	Stainless steel 1.4571, AISI 316 Ti	40 bar		
⑦ Seal	N	NBR					-30°C + 90°C	
	E	EPDM					-65°C + 150°C	
	V	FKM					-15°C + 200°C	
	T	PTFE					-196°C + 250°C	
	M	metal seated (without seal)					-196°C + 400°C	Temperatures depend on materials
⑧ Options	FF	Grease-free						
	-	LABS-free, seals with FDA certifications, etc.						

Other materials and executions on request !

Max. operating temperature / pressure

Temperature / Pressure	20 °C	100 °C	150 °C	200 °C	250 °C	300 °C	400 °C	Max. operating temperature
5F0.5F0	40 bar	N/A	350 °C					
5F0.4U0	40 bar	39,8 bar	N/A	350 °C				
4W0.4W0	40 bar	N/A	N/A	250 °C				
4W0.4C0	40 bar	N/A	N/A	250 °C				
4C0.4C0	40 bar	39,8 bar	36,3 bar	400 °C				
3HZ.4C0	40 bar	40 bar	40 bar	38,6	35,1	31,9 bar	28,6 bar	400 °C

Operating instructions

Appropriate use in accordance to designed capabilities:

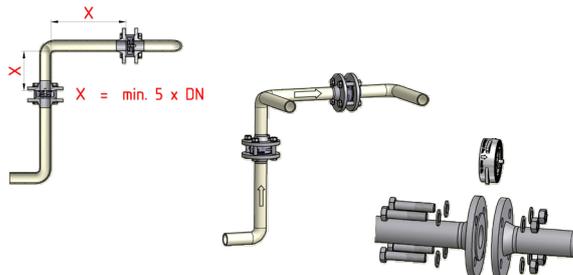
DCV 932 disco check valves are designed to block media on one side of the pipe within allowable pressure and temperature limits and to be installed in a pipe system only. They have only to be used on fluids, to which the material and the seals are resistant. They are not suitable for fluids with solid content.

Storage:

Disco check valves have to be transported in their original packaging and to be stored in a clean location. They include sealing elements consisting of organic material, that reacts to environmental effects. Therefore, they have to be stored in a place, which has also to be kept as cool, dry and dark as possible. The front and back sides of the disco check valves must not be mechanically damaged.

Installation:

- Possible damages to the disco check valves and o-rings have to be checked prior to installation. Check if the valve can be moved. Damaged parts must not be installed.
- Make sure that only those disco check valves are installed, that meet the operational requirements regarding pressure category, chemical resistance, connection and dimensions.
- Make sure to install a minimum of 5 x nominal diameter of straight pipeline upstream and downstream the valve.
- Do not install the valves directly onto a pump flange.
- Avoid pulsation and pressure impact.
- Watch flow direction (see arrow on the plate) !
- Centre perfectly the valve body between the flange screws (up to DN 100).
- Tighten the flange screws crosswise regarding the torque required (up to DN 100).



Special risks:

Before the swing check valve is being removed, pressure has to be completely taken off the plant to avoid media escaping from the pipe. Fluid being left in the pipe must be drained off. Fluid, which has remained in the valve and comes out during removal, is to be collected. If hazardous fluids or gases are left in the valves, the safety measurements required must be taken.

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