

## Description

Disco check valves are suitable for HVAC. Not suitable for media with solid components.

## Product features

- Max. working pressure 16 bar (brass)
- Rating PN 6 to 16 other ratings on request
- Face to face dimension DIN EN 558-1, series 49
- Temperature range up to 250°C according to materials
- Flange DIN EN 1092-1 B1



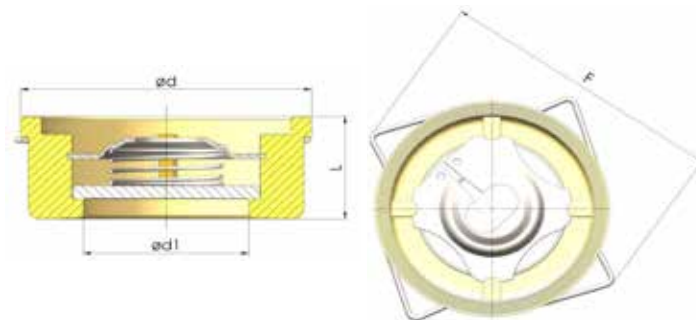
The disco check valves 931 meet the safety requirements of the pressure Equipments Directive 2014/68/EU (PED) appendix 1 for fluids of the groups 1 and 2.

## Construction

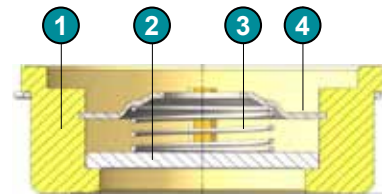
1	Body
2	Disc
3	Spring
4	Spring retainer

## Dimensions

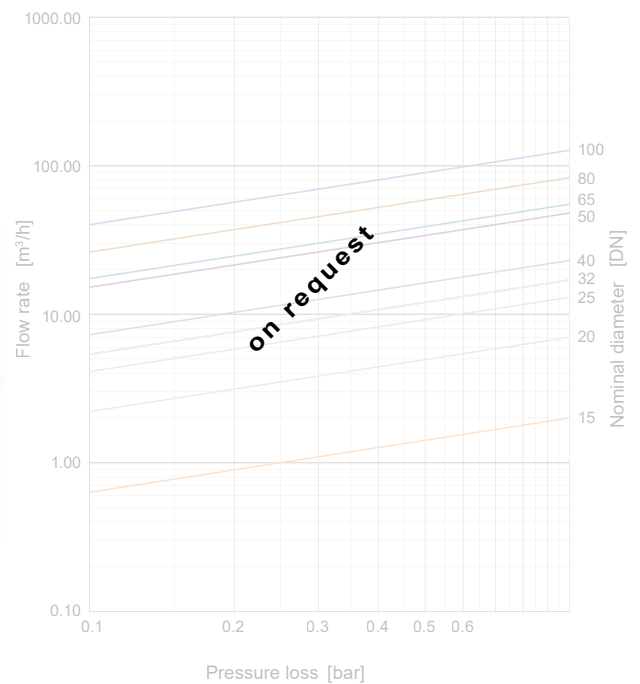
DN	ød	ød1	F	L	[kg]
15	40	15	65	16	0,1
20	47	20	76	19	0,2
25	56	25	86	22	0,3
32	72	31,5	92	28	0,5
40	82	39	107	31,5	0,7
50	95	48	123	40	1
65	115	64	148	46	1,4
80	132	74	158	50	2
100	152	89	186	60	3,3



DN [mm]	kv [m³/h]	Opening pressure [mbar]			without spring
		↔	↑	↓	↑
15	2	21	23	17	2,6
20	7	21	23	17	2,6
25	13	21	23	18,3	2,6
32	17	21	23	16,3	3,9
40	23	21	24	16,2	4
50	48	21	25	16,1	4,2
65	55	21	25	15	5,1
80	75	21	26	13,7	5,6
100	115	21	26,5	12,5	7,4



## Pressure loss diagram



## Type code

DCV931	100	.	3	6	-	5M0	.	4M0	.	E	-	xx
①	②		③	④		⑤		⑥		⑦		⑧

① Type	DCV931	Disco check valves
② Nominal Diameter	015-100	mm
③ Working pressure	3	16 bar
④ Rating	3	PN 6/10/16
⑤ Body	5M0	Brass 2.0402 (CW617N)
⑥ Disc	4M0	Stainless steel 1.4301 (AISI 304), Spring retainer stainless steel 1.4301 (AISI 304), spring stainless steel 1.4301 (AISI 304)
⑦ Seal	N	NBR -10°C ÷ 90°C
	E	EPDM -10°C ÷ 120°C
	V	FKM -10°C ÷ 200°C
	M	metal seated (without O-ring) -10°C ÷ 250°C
⑧ Options	xx	free of oil and grease
		Seal with KTW approval
		Seal with FDA approval

Other executions on request !

## 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:

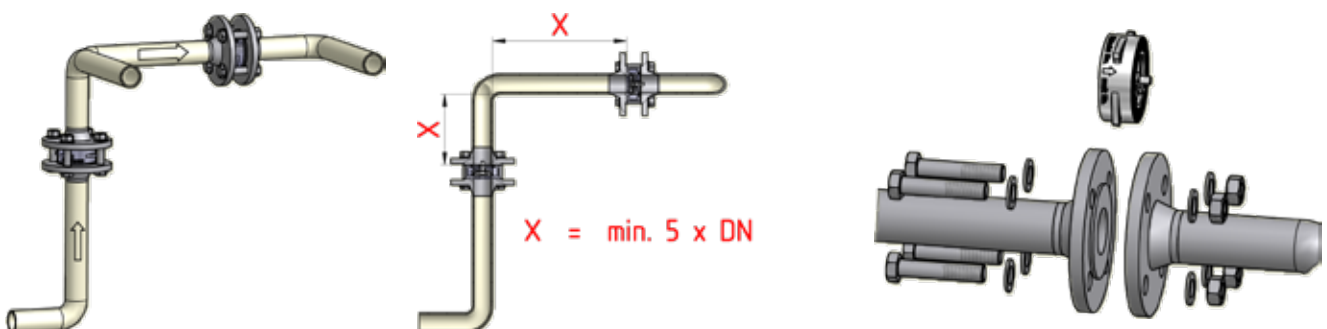
Disco check valves have to be transported in their original packaging and to be stored in a clean location. They include sealing elements consisting of organic material, that reacts to environmental effects. Therefore, they have to be stored in a place, which has also to be kept as cool, dry and dark 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.
- Tighten the flange screws crosswise regarding the torque required.

### 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.



The technical data are noncommittal and do not assure you of any properties. Please refer to our general sales conditions. Modifications without notice.  
© 2020 InterApp AG, all rights reserved