

SWING CHECK VALVE

1 CHARACTERISTICS AND BENEFITS

- Flanged swing check valve for complete and quick closing of the return flow in pipelines
- Simple construction, quick installation
- Easy maintenance - no removal from the pipeline and easy disassembly of cover and disc
- Low pressure loss due to fullbore type
- Complete closing even at small pressure difference < 0,5 bar
- An additional built-in shaft allows the fitting of a lever and weight to close the return flow more quickly
- DN 350–500 with relief valve (bypass)
- Horizontal and vertical installation possible
- Area of application at a flow of up to 4 m/s; recommended 0.5–2.5 m/s
- Internal and external Epoxy color coating in RAL 5005

2 STANDARDS

- Non-return valves manufactured and tested acc. to EN 1074-3 (water supply valves)
- Resilient seated acc. to EN 16767
- Flanges acc. to EN 1092-2 PN 10/16
- Installation length acc. to EN 558-1, series 48
- Final strength and tightness test acc. to EN 12266-1
- Fullbore type acc. to EN 736-3:2008; 3.3.1.
- Corrosion protection acc. to DIN 30677-2 and EN 14901
- Sealing elements for drinking water acc. to EN 681
- Microbiological suitability acc. to EN 16421 (W270)

3 APPROVALS

- UBA, W270, ACS WRAS, Belgaqua for EPDM sealing elements and Epoxy coating
- GSK – RAL GZ-662/2 for corrosion protection
- EAC for the Russian market
- EMI for the Hungarian market
- VIK for the Croatian market
- Conformity for potable water acc. to DM 174 for the Italian market

Fig.423/422 Hebel und Gewicht

DN 50–500
PN 10/16



Lifting device available on demand. Plug screw in basic version.

ON DEMAND

POSSIBLE ADDITIONS

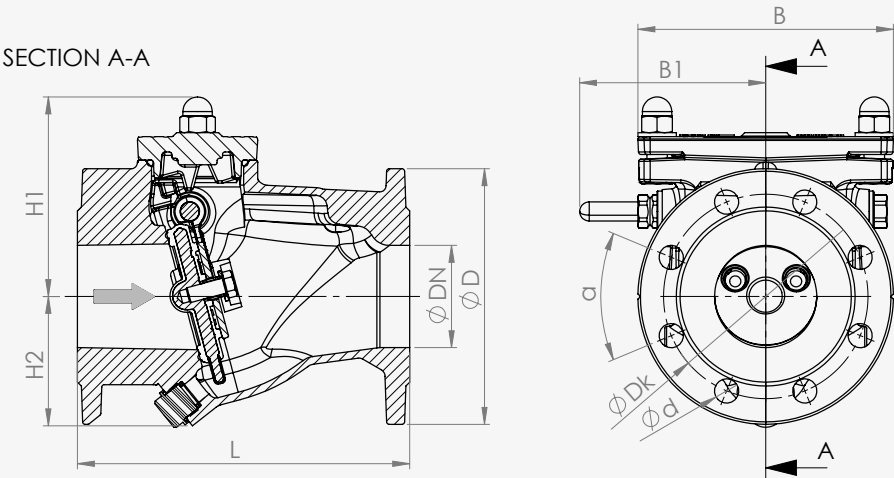
- Manometer connections
- Lever & weight, guard
- Lifting device
- PN 6 flanges

SPARE PARTS

- Set 1: EPDM/NBR rubberized disk, O-ring for bonnet, bearings
- Set 2: EPDM/NBR O-ring for bonnet, gasket for plug screw

PN	10	16
Max. operating pressure [bar]	10	16
Max. operating temperature for neutral liquids [°C]	50	50
Shell strength and tightness: test with water; rate A [bar]	15	24
Sealing element tightness: test with water; rate A [bar]	11	17,6

TECHNICAL DRAWINGS



DATA

DN	50	65	80	100	125	150	200	250	300	350	400	500
D [mm]	165	185	200	220	250	285	340	400	455	520	580	715
L [mm]	200	240	260	300	350	400	500	600	700	800	900	1100
B [mm]	165	185	200	225	305	340	400	470	505	585	660	770
B1 [mm]	125	130	130	140	180	220	245	290	310	370	455	465
H1 [mm]	140	150	155	180	220	240	295	335	350	427	461	530
H2 [mm]	90	100	105	115	140	155	190	235	255	345	372	424
d PN10/PN16 [mm]	19	19	19	19	19	23	23	23/28	23/28	23/28	28/31	28/34
Dk PN10 [mm]	125	145	160	180	210	240	295	350	400	460	515	620
Dk PN16 [mm]								355	410	470	525	650
No. of bolts PN10/PN16	4	4	8	8	8	8	8/12	12	12	16	16	20
Weight approx. [kg]	12	15	19	25	40	60	90	130	150	300	425	618

MATERIALS

	BASIC VERSION	SPECIAL VERSIONS ON DEMAND (differences from basic version)	
	EPDM for potable water	NBR for waste water	Reinforced corrosion protection for waste water
Body	EN GJS-400-15 (GGG-40)	Version for low differential closing pressure (< 0,2 bar)	
Body seat	---	Brass CW614N	
Bonnet	EN GJS-400-15 (GGG-40)		
Bonnet seal	EPDM	NBR	NBR
Arm	W. No 1.0038		
Disc	EN GJS-400-15 / EPDM	NBR	NBR
Shaft	W.Nr. 1.4021	W. No 1.4571	W. No 1.4571
Bonnet bolts	Stainless steel A2	Stainless steel A4	
Plug screw 3/4"	DN 40-300 Stainless steel A2	DN 40-300 A4	
Bypass 1 1/2"	DN 350-500 Brass CW614N	DN 350-500 Bronze	
Epoxy coating	Min. 250 µm	Min. 300 µm	

Note: The product can be used only for the application range and manner defined in the datasheet and accompanying operation instructions. We reserve the right to make technical changes and use similar or higher quality materials. Drawings and data are non-binding.