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

ART. 437 NORVA LW

DN 50–500
PN 10/16

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

ON DEMAND

POSSIBLE ADDITIONS

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

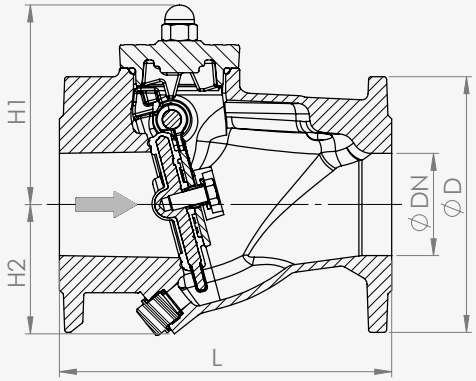
SPARE PARTS

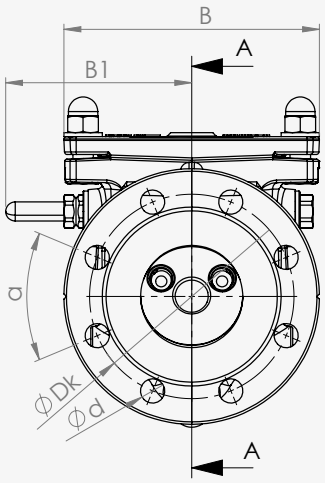
- Set 1: EPDM/NBR rubberized disk, O-ring for bonnet, bearings
- Set 2: EPDM/NBR O-ring for bonnet, gasket for plug screw

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

SECTION A-A





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	Version for low differential closing pressure (< 0,2 bar)
Body	EN GJS-400-15 (GGG-40)			
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 ¾"	DN 40-300 Stainless steel A2		DN 40-300 A4	
Bypass 1½"	DN 350-500 Brass CW614N		DN 350-500 Bronze	
Epoxy coating	Min. 250 µm		Min. 300 µm	