

# SWING CHECK VALVE

## 1 CHARACTERISTICS AND BENEFITS

- Flanged swing check valve for complete and quick closing of the return flow in pipelines
- Simple construction
- Double lifetime due to turnable disc (up to DN 300)
- Design with flexible rubber disc neck
- Quick installation
- Easy maintenance - no removal from the pipeline
- Low pressure loss due to fullbore type
- Complete closing even at small pressure difference <0,5 bar
- 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 colour coating in RAL 5005

## ART. 435 NORVA, V2

DN 50–500  
PN 10/16



## 2 STANDARDS

- Non-return valves manufactured and tested acc. to EN 1074-3 (water supply valves)
- Flanges acc. to EN 1092-2 PN 10/16
- Resilient seated acc. to EN 16767
- 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)

### ON DEMAND

#### POSSIBLE ADDITIONS

- Manometer connections
- Lifting device
- PN 6 flanges

#### SPARE PARTS SETS

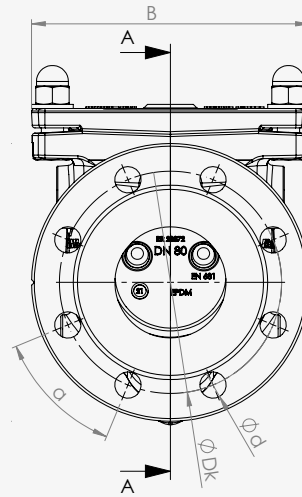
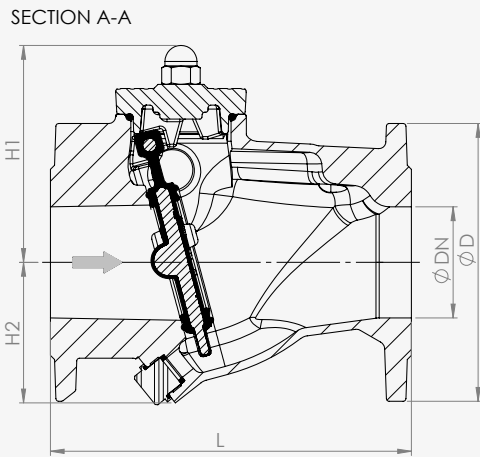
- Set 1: EPDM/NBR rubberised disk, O-ring for bonnet
- Set 2: EPDM/NBR O-ring for bonnet, gasket for plug screw

## 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 the DM 174 for Italian market

PN	10	16
<b>Max. operating pressure</b> [bar]	10	16
<b>Max. operating temperature for neutral liquids</b> [°C]	50	50
<b>Shell strength and tightness:</b> test with water; rate A [bar]	15	24
<b>Seat tightness:</b> 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
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 use in salt water	Version for low differential closing pressure (< 0.2 bar)
Body	EN GJS-400-15 (GGG-40)				
Body seat	---			Bronze	Brass CW614N
Bonnet	EN GJS-400-15 (GGG-40)				
Bonnet seal	EPDM	NBR	NBR		
Disc	EN GJS-400-15 / EPDM	NBR	NBR		
Shaft	W. Nr. 1.4301		1.4571	1.4571	
Bonnet bolts	Stainless steel A2		Stainless steel A4	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 powder coating	Min. 250 µm		Min. 300 µm	Min. 300 µm	