

Design Attributes

Wafer Swing Check Valves are devices for preventing the reverse of flow in a piping system, by means of its articulated disc. These valves are featured as an extremely light, compact and economic option. With a simple design, they are mainly used in hvac and industrial auxiliary applications, with significant savings in space and investment costs for installation.



Main Features

Valve design: EN 12516
 Nominal pressure: PN16
 Valve end connections: Wafer, Between flanges EN 1092 PN10/16
 Marking: EN 19. *See arrow in label for normal flow direction*
 Pressure Tests: EN 12266-1
 Seat leakage rate: Rate A (full seat tightness)
 Product compliant with Directive 2014/68/EU on Pressure Equipment (PED)

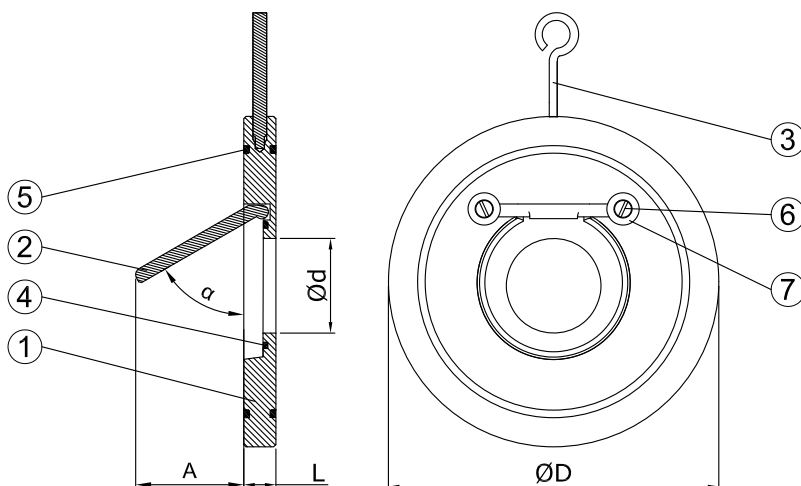
Main Duties / Limits of use

Fresh clean water and neutral liquids of group 2*, acc. to Directive 2014/68/EU, Annex II table 9 up to category I
 Table 9: PN16 DN32-600 (Art.4-Parr.3 DN32-DN300)
 TS: -10/80°C (NBR seat); -10/110°C (EPDM seat); -10/150°C (VITON seat / PTFE seat)
 Questions referring to chemical resistance, please consult us
 *Classification of fluids (group 2) acc. to Directive 2014/68/EU, Article 13

Options

Spring loaded disc, other sealings, higher temperatures, other designs and approvals. Please consult us

Main Parts and Materials



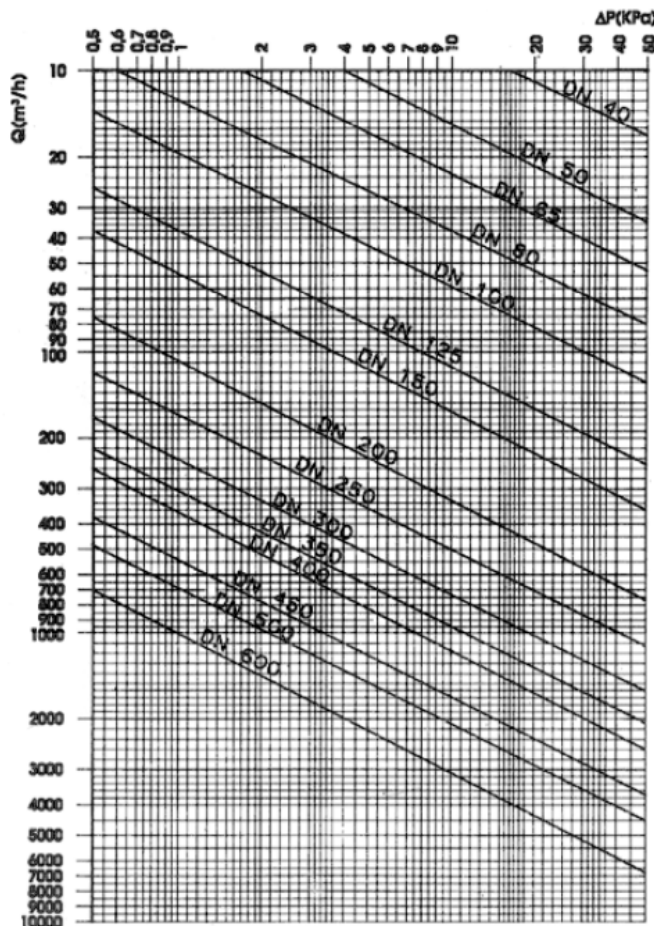
Nº	PART	MATERIAL
1	BODY	CVCC Steel A216 WCB - Cr plated
		CVII St. steel A351 CF8M
2	DISC	CVCC Steel A216 WCB - Cr plated
		CVII St. steel A351 CF8M
3	EYE BOLT	CVCC Steel - Cr Plated
		CVII St. steel A351 CF8M
4	SEAT O-RING	NBR (CV_N) / EPDM (CV_E) / VITON (CV_V)
5	FACE O-RING	NBR (CV_N) / EPDM (CV_E) / VITON (CV_V)
6	RETAINER SCREW	CVCC Steel - Cr plated
		CVII St. steel A351 CF8M
7	DISC BEARING	CVCC Steel - Cr plated
		CVII St. steel A351 CF8M

Main Valve Parameters

DN	mm	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		14	14	14	14	14	18	18	20	22	26	32	36	41	50	56	56
A		22,5	28	38	51	62,5	77,5	96	118	159	194,5	241	272	326	374,5	417	495,5
α		65°	65°	65°	65°	65°	65°	65°	65°	65°	65°	65°	65°	65°	65°	65°	65°
ØD		85	94	109	129	144	164	194	220	275	330	380	440	491	541	596	697
Ød		18	22	32	40	54	70	92	112	154	192	227	270	315	359	410	490
Approx. Weight (kg)		0,6	0,7	0,9	1,2	1,5	2,5	3,5	4,7	7,6	13	21	33	48	63	88	130

Dimensions in mm subject to manufacturing tolerance

Pressure Drop Diagram



Information / restriction of technical rules need to be observed!
Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

Opening Pressures

DN	32	40	50	65	80
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ΔP_c for horizontal flow - 0 0 0 0

DN	32	40	50	65	80
ΔP_c^{up} for vertical upward flow	-	16	16	15	15

Pressure in mbar

DN	100	125	150	200	250
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ΔP_c for horizontal flow 0 0 0 0 0

DN	100	125	150	200	250
ΔP_c^{up} for vertical upward flow	13	12	15	20	20

Pressure in mbar

DN	300	350	400	450	500	600
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ΔP_c for horizontal flow 0 0 0 0 0 0

DN	300	350	400	450	500	600
ΔP_c^{up} for vertical upward flow	23	25	27	24	35	34

Pressure in mbar

The engineer, designing a system or a plant, is responsible for the selection of the correct valve
Product suitability must be verified, contact manufacturer for information