Design Attributes

Non return valves are self acting flow pressure devices that prevent the back flow to the pressurized side of the system. Flex Swing Check Valves are devised for sewage water, waste and treatment where suspended particles might damage conventional metal seat rings. The seating flap is entirely rubber coated what combined to the valve body seat less design facilitates this feature. Also the inclined bore design favours the flow and improves the flow characteristic while minimizing the pressure drop. The internal and external EPOXI valve body coating prevents surface deterioration and extends the valve life span.

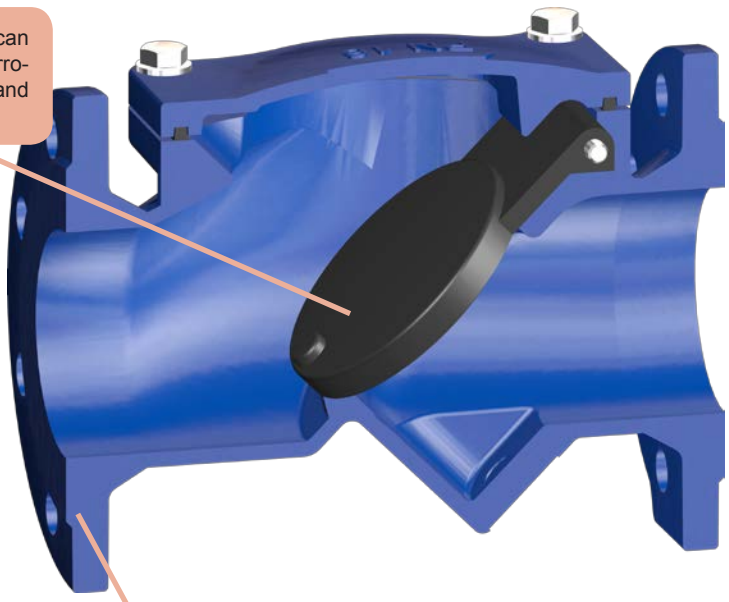
Nameplate incl. batch no. for full traceability

Optimized design, reliable tightness, excellent performance

The internal parts can easily be reached and replaced in line without special tools

When there is no medium flowing in the horizontal pipeline, the disc can automatically return to the close position by gravity

The rubber lined on disc can resist microorganism corrosion, copper pollution and ozone corrosion



Inner and outer epoxi paint coat to extend the valve life span in aggressive media

Codification

5	1	0	7	A	E	1	6	0	0	0	1	0	0

5 1 0 7 : Identifies Flex Swing Check Valve

FTF Design	
0	EN 558-1 series 48 (DIN 3202-F6)
A	ASME B16.10 (Class125) / AWWA C508

Liner & Gasket Material	
N	NBR lined disc and gasket
E	EPDM lined disc and gasket

16	Nominal pressure (PN16)
10	Nominal pressure (PN10)

Size in Nominal Diameter (DN)	
050	DN50
100	DN100

Main Features

Valve design: EN 12516
Nominal pressure: 5107_16 - PN16 (DN50-800); 5107_10 - PN10 (DN200-800)
Face to face design: 51070 - EN 558-1 series 48 (DIN 3202-F6) up to DN600, EN 558-1 series 10 for DN700 onwards
5107A - ASME B16.10 (Class125) / AWWA C508
Valve end connections: Flanged to EN 1092-2 type 21 type B PN10 (5107_ _10) or PN16 (5107_ _16)
(*valves DN65 with 4 holes as accepted variant in standard)*
Marking: EN 19
Pressure Tests: EN 12266-1 (51070); AWWA C508 (5107A)
Seat leakage rate: Rate A (full seat tightness)
Inside and outside epoxy coating protection blue color similar to RAL5005. Min. average thickness 250 microns
Product compliant with Directive 2014/68/EU on Pressure Equipment (PED)

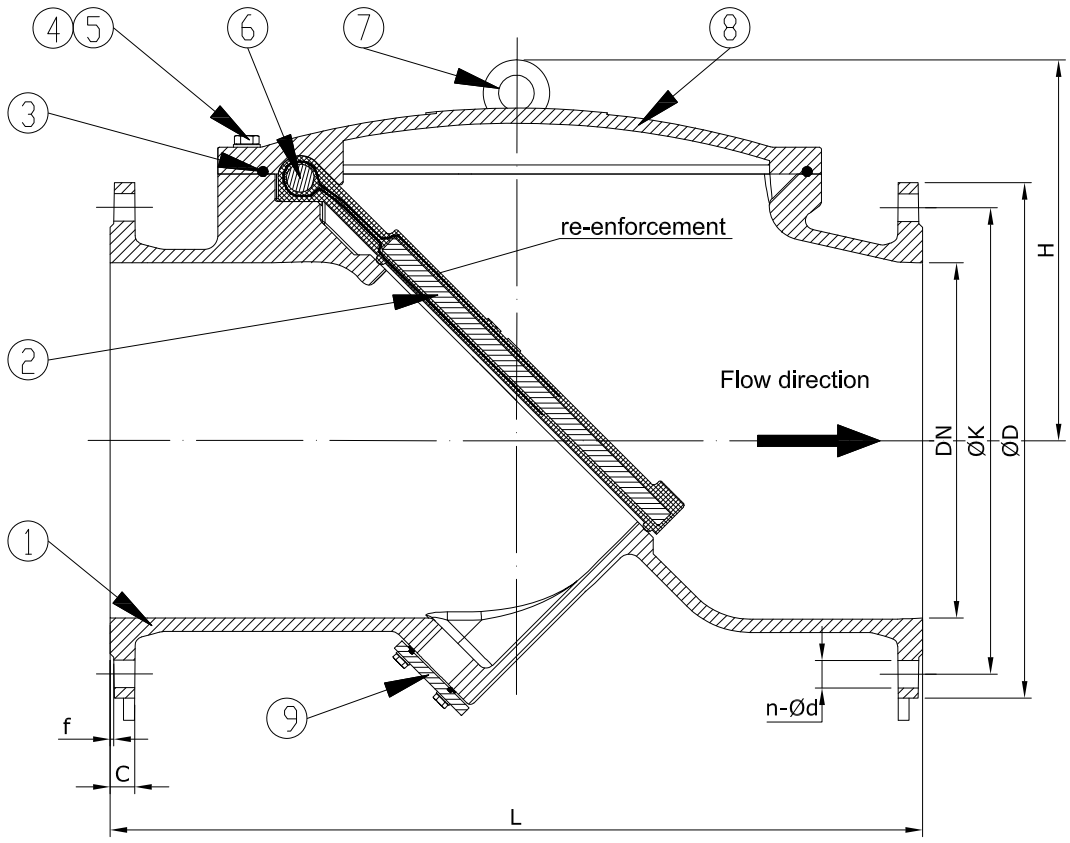
Main Duties / Limits of use

Fresh water and neutral liquids of group 2*, acc. to Directive 2014/68/EU, Annex II table 9 up to category I
Table 9: PS 16 bar DN50-DN600 (Art.4-Parr.3 DN50-DN300)
PS 10 bar DN200-DN600 (Art.4-Parr.3)
TS: -10/80ºC (NBR disc) ; -10/110ºC (EPDM disc)
Questions referring to chemical resistance, please consult us
**Classification of fluids (group 2) acc. to Directive 2014/68/EU, Article 13*

Options

Other designs and approvals. Please consult us.

Main Parts and Materials



Nº	PART	MATERIAL
1	BODY	Ductile Iron EN-JS1050 (GGG50)
2	DISC	EPDM/NBR +WCB
3	BONNET GASKET	EPDM/NBR
4	BOLTS	A2-70
5	WASHERS	A2-70
6	PIN	SS420
7*	EYEBOLT	Galvanized carbon steel
8	BONNET	Ductile Iron EN-JS1050 (GGG50)
9**	COVER	Ductile Iron EN-JS1050 (GGG50)

*For DN200 onwards

**For DN250 onwards

Dimensions in mm subject to manufacturing tolerance / Weights in kg

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

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

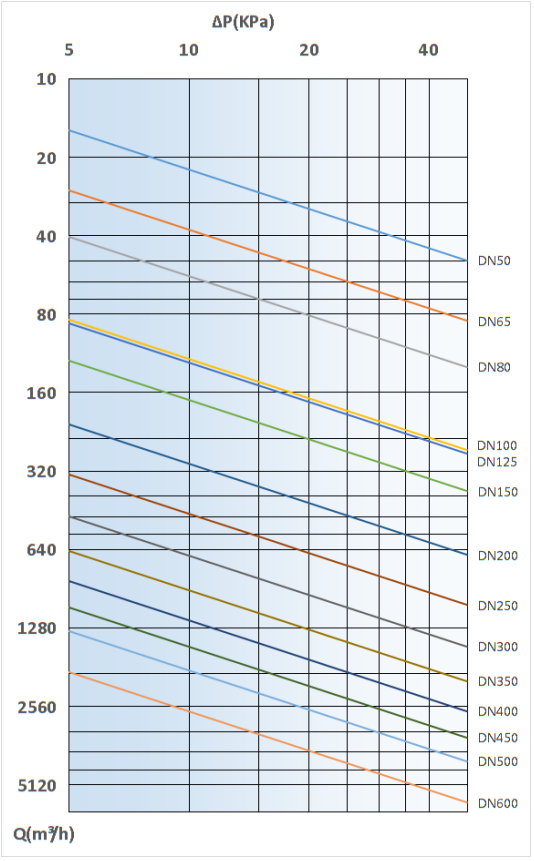
Parámetros principales

DN		mm	50	65	80	100	125	150	200	250
		inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"
	L		200	240	260	300	350	400	500	600
	H		86	100	114	114	140	155	234	294
	f		3	3	3	3	3	3	3	3
PN10		ØD	165	185	200	220	250	285	340	395
		C	19	19	19	19	19	19	20	22
		ØK	125	145	160	180	210	240	295	350
		n-Ød	4-Ø19	4-Ø19	8-Ø19	8-Ø19	8-Ø19	8-Ø23	8-Ø23	12-Ø23
PN16		ØD	165	185	200	220	250	285	340	405
		C	19	19	19	19	19	19	20	22
		ØK	125	145	160	180	210	240	295	355
		n-Ød	4-Ø19	4-Ø19	8-Ø19	8-Ø19	8-Ø19	8-Ø23	12-Ø23	12-Ø28
	Approx. Weight (kg)		7,5	10	13,8	20	28	31,4	70,4	95

DN		mm	300	350	400	450	500	600	700	800
		inch	12"	14"	16"	18"	20"	24"	28"	32"
	L		700	800	900	1000	1100	1300	1448	1676
	H		330	-	-	-	-	-	-	-
	f		4	4	4	4	4	5	5	5
PN10		ØD	445	505	565	615	670	780	895	1015
		C	24,5	24,5	24,5	25,5	26,5	30	32,5	35
		ØK	400	460	515	565	620	725	840	950
		n-Ød	12-Ø23	16-Ø23	16-Ø28	20-Ø28	20-Ø28	20-Ø31	24-Ø31	24-Ø34
PN16		ØD	460	520	580	640	715	840	910	1025
		C	24,5	26,5	28	30	31,5	36	39,5	43
		ØK	410	470	525	585	650	770	840	950
		n-Ød	12-Ø28	16-Ø28	16-Ø31	20-Ø31	20-Ø34	20-Ø37	24-Ø37	24-Ø41
	Approx. Weight (kg)		172	-	-	-	-	-	-	-

Dimensions in mm subject to manufacturing tolerance / Weights in kg

Pressure drop diagram



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