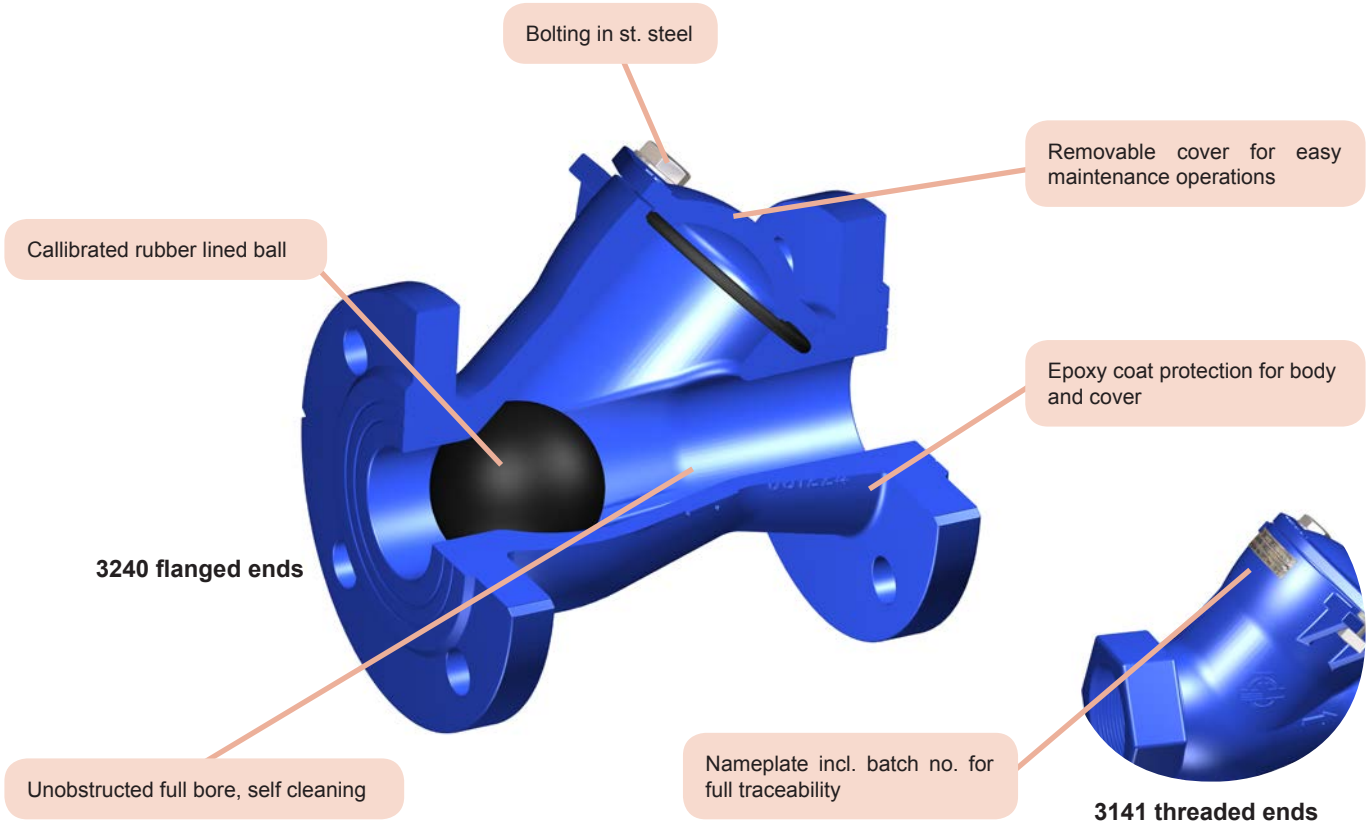
Design Attributes

Ball Check Valves are devices for preventing the reverse of flow in a piping system. The fluid pushes a ball from the valve inlet allowing the flow to pass. When no flow, the ball falls down by gravity thus blocking the medium at the valve inlet. Valves are provided with epoxy protection against environmental or media aggression. They are offered in both threaded and flanged versions. With a simple design, they are an effective solution to handle clean and waste water, with full seat tightness, being one of the preferred choices when sediments are present.



Main Features

Valve design: EN 12334, EN 12516
Nominal Pressure: PN16 (DN32-150); PN10 (DN200-300)
Face to face length: Fig. 3240: EN 558 S48 (DIN 3202 F6) - Fig. 3141: acc. to manufacturer standard
Valve end connections:
-3240: Flanged to EN 1092-2 type 21/B, PN10/16 (DN50-150) - PN10 (DN200-300)*
(*valves DN65 with 4 holes as accepted variant in standard*)
-3141: Female threaded ends to ISO 228-1 (DIN 259-BSPP)
Marking: EN 19. *See arrow on body for normal flow direction*
Pressure Tests: EN 12266-1
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

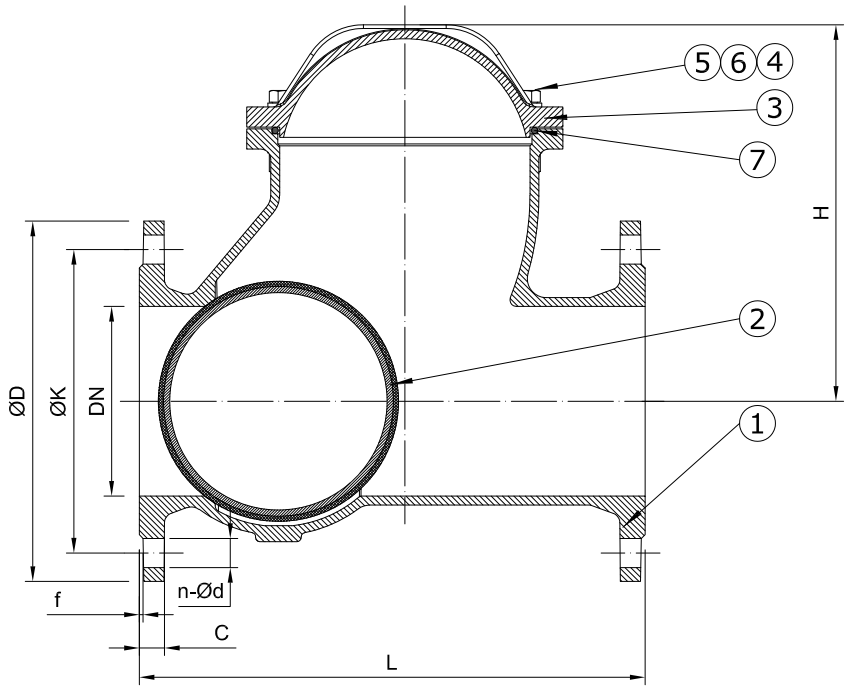
Fresh water and neutral liquids of group 2*, acc. to Directive 2014/68/EU Annex II table 9 up to category I
Table 9: PS 16 bar DN32-150 (Art.4-Parr.3)
PS 10 bar DN200-300 (Art.4-Parr.3)
TS: -10/80ºC (ball NBR) ; -10/120ºC (ball EPDM)
Questions referring to chemical resistance, please consult us
**Classification of fluids (group 2) acc. to Directive 2014/68/EU, Article 13*

Options

Drinking water approval & compliance with EN 1074-3, other designs and approvals. Please consult us.

TYPE 3240

Main Parts and Materials



Nº	PART	MATERIAL
1	BODY	Ductile iron EN-JS1050 (GGG50)
2	BALL	Ductile iron GGG50 Coated: NBR (3240NBR) / EPDM (3240EPDM)
3	COVER	Ductile iron EN-JS1050 (GGG50)
4	BOLT	St. steel A2
5	WASHER	St. steel A2
6	NUT	St. steel A2
7	O-RING	NBR (3240NBR) / EPDM (3240EPDM)

Main Valve Parameters

DN	mm	50	65	80	100	125	150	200	250	300
	inch	2	2-1/2	3	4	5	6	8	10	12
ØD		165	185	200	220	250	285	340	400	455
ØK		125	145	160	180	210	240	295	355	400
C		19	19	19	19	19	19	20	22	24,5
f		3	3	3	3	3	3	3	3	4
n-Ød		4-Ø19	4-Ø19	8-Ø19	8-Ø19	8-Ø19	8-Ø23	8-Ø23	12-Ø23	12-Ø23
L		200	240	260	300	350	400	500	600	700
H		100	125	155	190	245	300	375	455	535
Approx. Weight		8	13	14	21	37	42	80	121	200

Dimensions in mm subject to manufacturing tolerance / Weights in kg

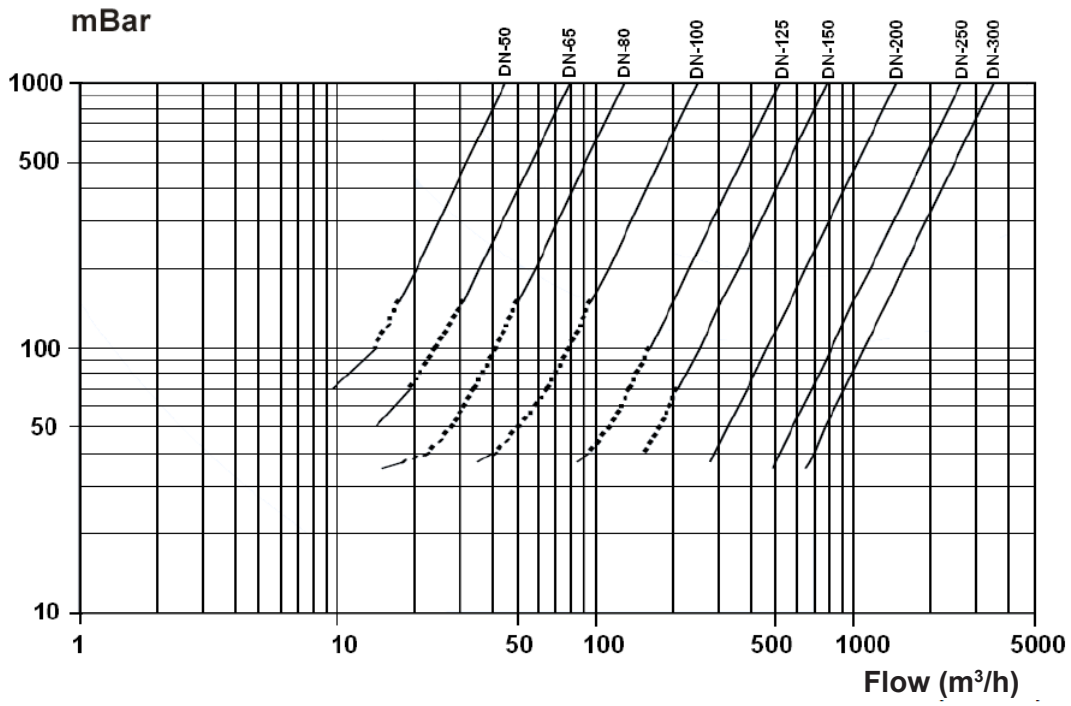
Information / restriction of technical rules need to be observed!
Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

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

TYPE 3240

Main Valve Parameters

Head Loss Diagram



Flow Coefficient Kvs (m³/h)

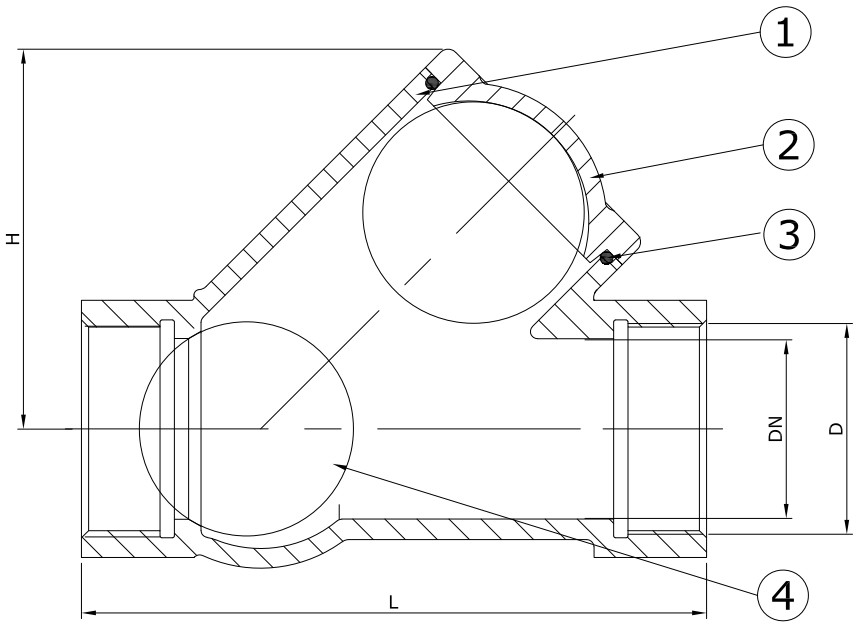
DN	50	65	80	100	125	150	200	250	300
Kvs	81	130	255	400	645	970	2000	3050	4150

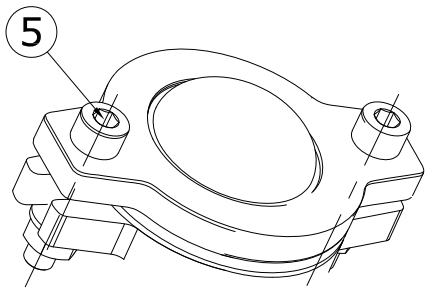
Information / restriction of technical rules need to be observed!
Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

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

TYPE 3141

Main Parts and Materials





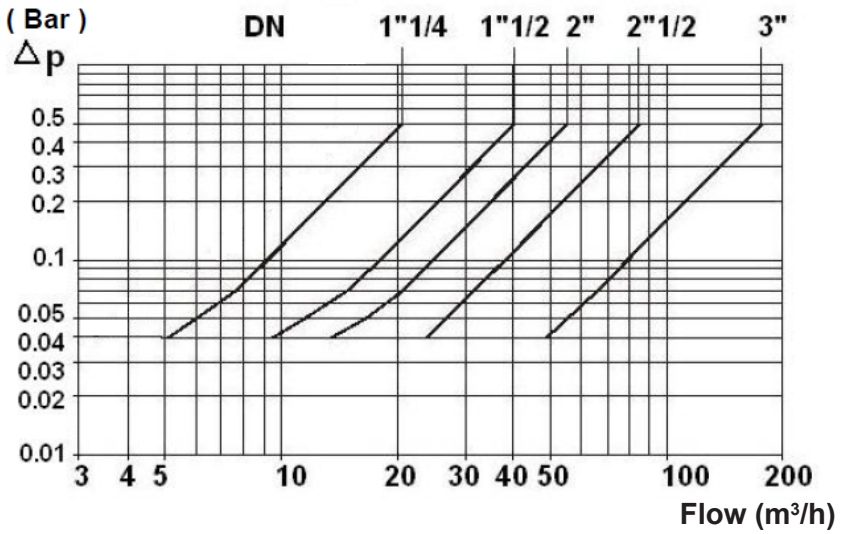
Nº	PART	MATERIAL
1	BODY	Ductile iron EN-JS1050 (GGG50)
2	COVER	Ductile iron EN-JS1050 (GGG50)
3	GASKET	NBR (3141NBR) / EPDM (3141EPDM)
4	BALL	Steel NBR (3141NBR)-EPDM (3141EPDM) Coated
5	BOLTING	St. steel A2

Main Valve Parameters

SIZE/MEDIDA	NPS	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
	DN	25	32	40	50	65	80
L		115	130	150	180	203	254
H		60	75	95	110	136	210
Approx. Weight		2	2	2,5	3	5	7,5

Dimensions in mm subject to manufacturing tolerance / Weights in kg

Head Loss Diagram



Flow Coefficient Kvs (m³/h)

DN	1-1/4"	1-1/2"	2"	2-1/2"	3"
Kvs	29	57	78	120	250

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