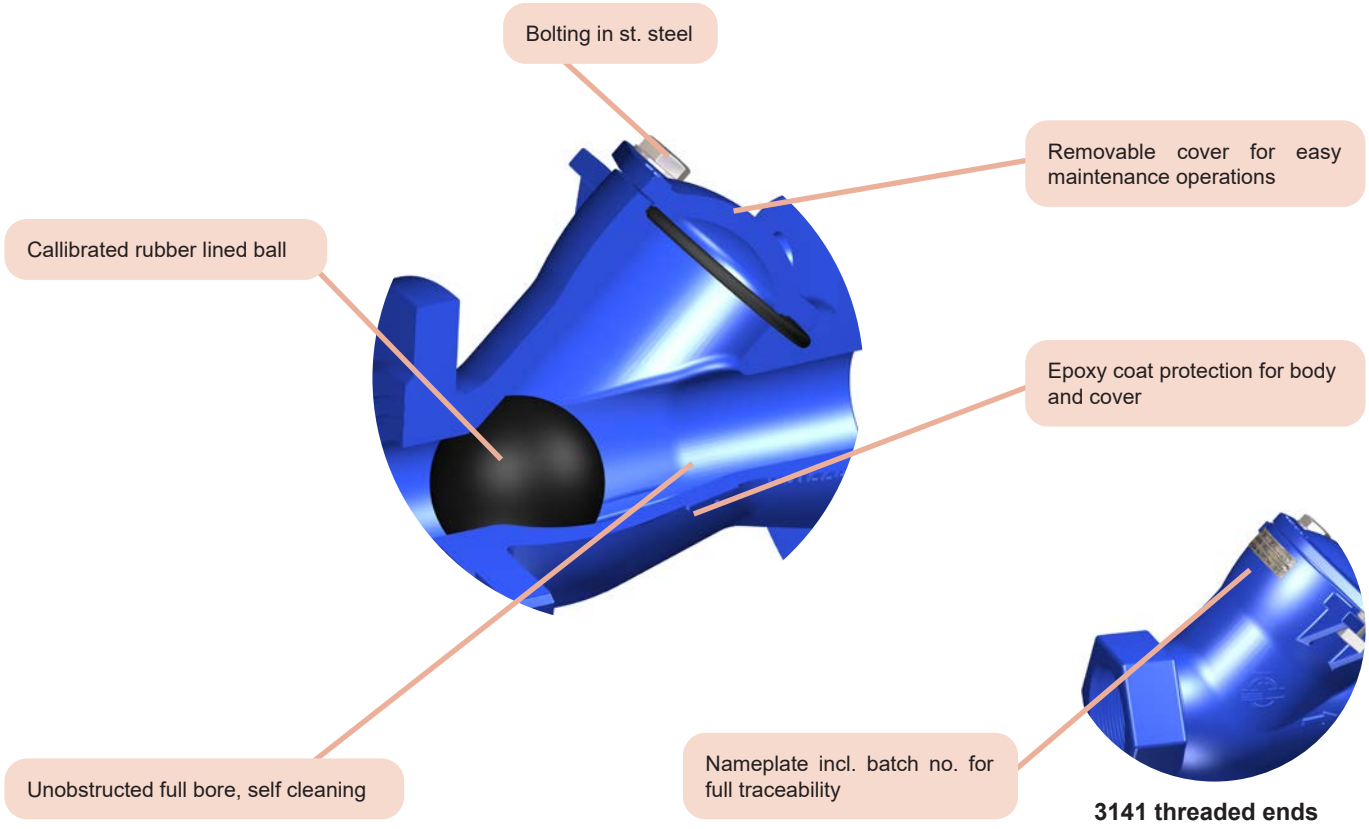
Design Attributes

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.



3141 threaded ends

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:
-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

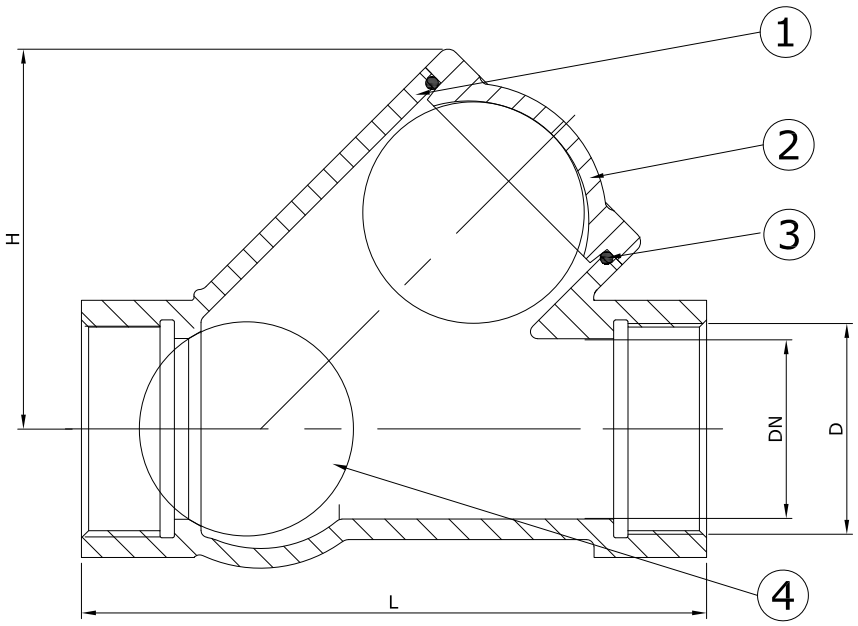
Fresh water and neutral liquids of group 2*, acc. to Directive 2014/68/EU Annex II table 9 up to category I
Table 9: PS 16 bar DN32-150 (Art.4-Parr.3)
PS 10 bar DN200-300 (Art.4-Parr.3)
TS: -10/80ºC (ball NBR) ; -10/120ºC (ball EPDM)
Questions referring to chemical resistance, please consult us
**Classification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

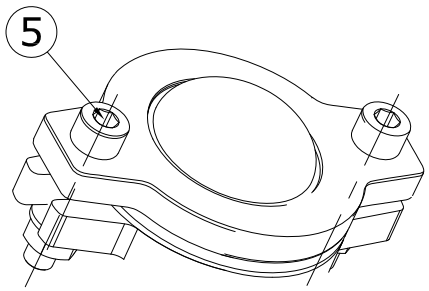
Options

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

TYPE 3141

Main Parts and Materials





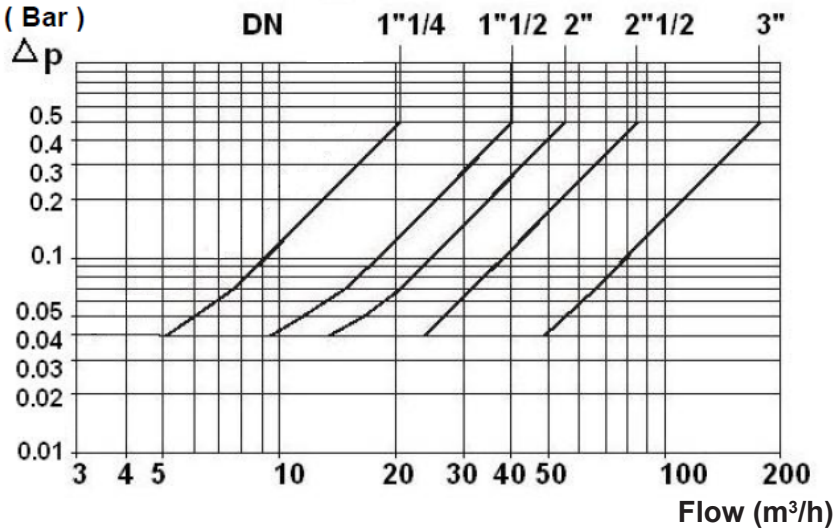
Nº	PART	MATERIAL
1	BODY	Ductile iron EN-JS1050 (GGG50)
2	COVER	Ductile iron EN-JS1050 (GGG50)
3	GASKET	NBR (3141NBR) / EPDM (3141EPDM)
4	BALL	Steel NBR (3141NBR)-EPDM (3141EPDM) Coated
5	BOLTING	St. steel A2

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