

# Ball Check Valve

Technical Guide W4.31

Check valves for waste water and raw water service.



11.22 | W4.31 BALL CHECK VALVE

## Applications

Waste water

Pump station

River water

## Product Attributes

Non fouling

Full bore

Horizontal or vertical installation

## Approvals/Standards

Flanges to AS 4087-B5

EN 558-1 face to face

## Quality

ISO 9001:2008 Quality  
Management Standard

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**HYNDS**water

## Features

- Full bore ductile iron body
- Higher pressure rating compared to other ball checks
- Self-cleaning sinking nitrile coated ball
- Inside and outside epoxy-coating
- Low pressure drop
- Removable bonnet for cleaning or changing the ball without disassembly out of the pipeline
- Horizontal and vertical installation in the pipeline
- Light weight design for easy installation

## Options

- Other flange connections
- Size above 500 mm available
- Various ball types including floating type ball

## Technical Data

- Size range:
  - DN50 - DN500 (Flanged)
  - DN32 - DN65 (Threaded)
- Pressure classes: PN16
- Face to face: EN-558-1 series 48 (DIN3202 F6)
- Temperature range: 10°C to +80°C
- Threaded connection: BSP
- Flange drilling: AS4087 CL16
- Leakage tests: EN 12266
- Coating: fusion bonded epoxy
- Minimum backpressure: 0.3 - 0.5bar



**TABLE 1 Series Threaded Connection**

DN	FxF	H1	ØD	Weight (kg)
32	135	72	50	2
40	145	85	60	2
50	175	100	70	3
65	200	125	90	5

**TABLE 2 Material specifications and parts list**

No	Description	Material
1	Body	Ductile Iron
2	Bonnet	Ductile Iron
3	Ball	Steel & NBR (standard) Steel & EPDM (optional)
4	Bonnet Gasket	NBR (standard) EPDM (optional)
5	Bolts	Stainless Steel

**TABLE 3 Series Flanged Connection**

DN	FxF	b	h1	ØD	ØD1	ØD2	n-Ød1	Weight (kg)
50	200	19	100	165	125	90	4-18	6.5
65	240	19	125	185	145	103	4-18	11
80	260	19	136	200	160	122	4-18	14.35
100	300	20	185	220	180	154	4-18	19.98
125	350	20	196	250	210	186	8-18	30.4
150	400	23	265	285	240	207	8-18	42.3
200	500	23	340	340	295	264	8-18	73.5
250	600	24	420	405	355	328	8-22	128
300	700	30	480	460	410	374	12-22	180
350	800	33	580	505	470	438	12-26	290
400	900	33	730	580	521	490	12-26	420
500	1100	33	900	705	641	609	16-26	580

**Note:** Dimensions (mm)

# Mounting in Pipeline

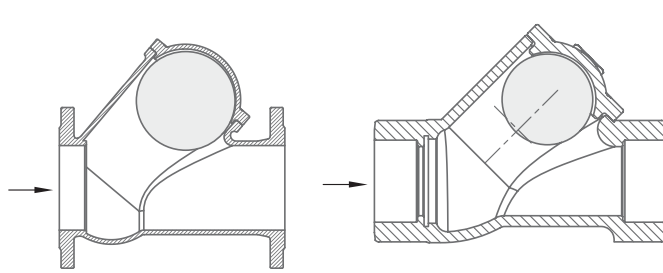


FIG. 1 Horizontal Installation

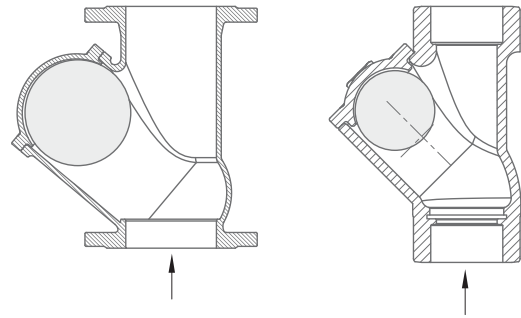


FIG. 2 Vertical installation

# Dimensional Drawing

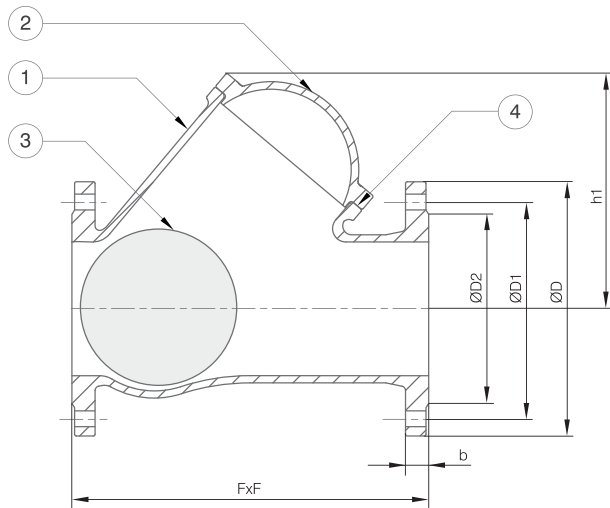


FIG. 3 Flanged connection

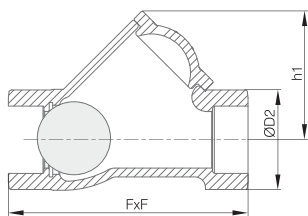
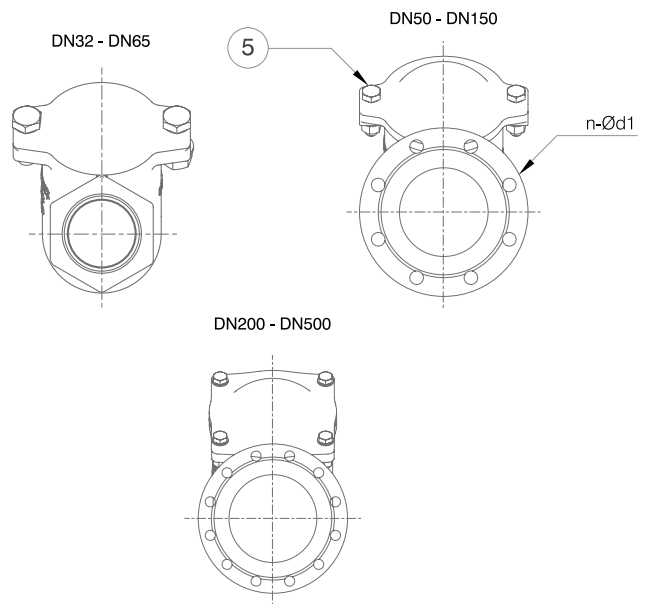


FIG. 4 Threaded connection

Factory accredited



ISO 90001:2008



CE879



ISO 90001:2000

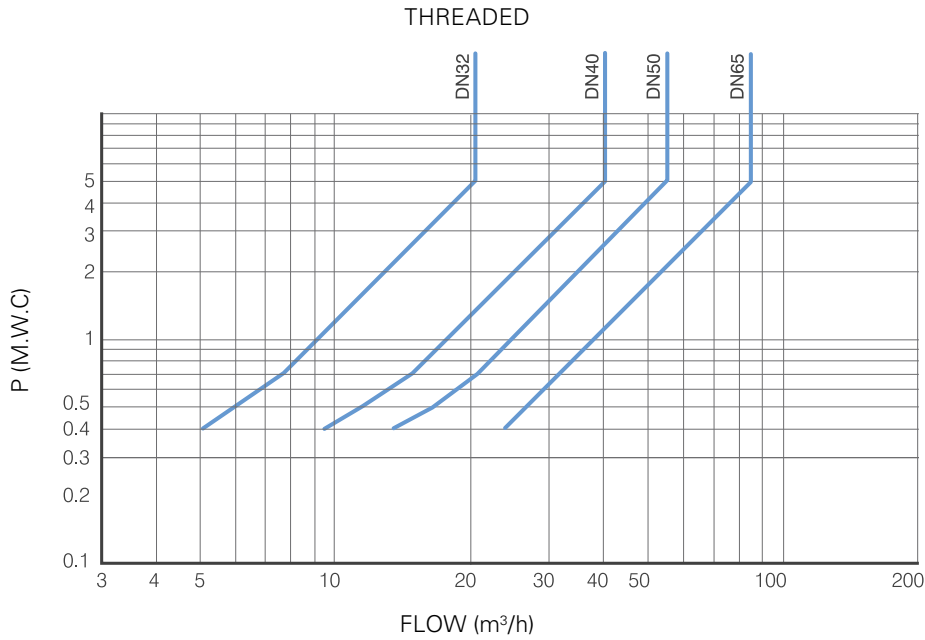
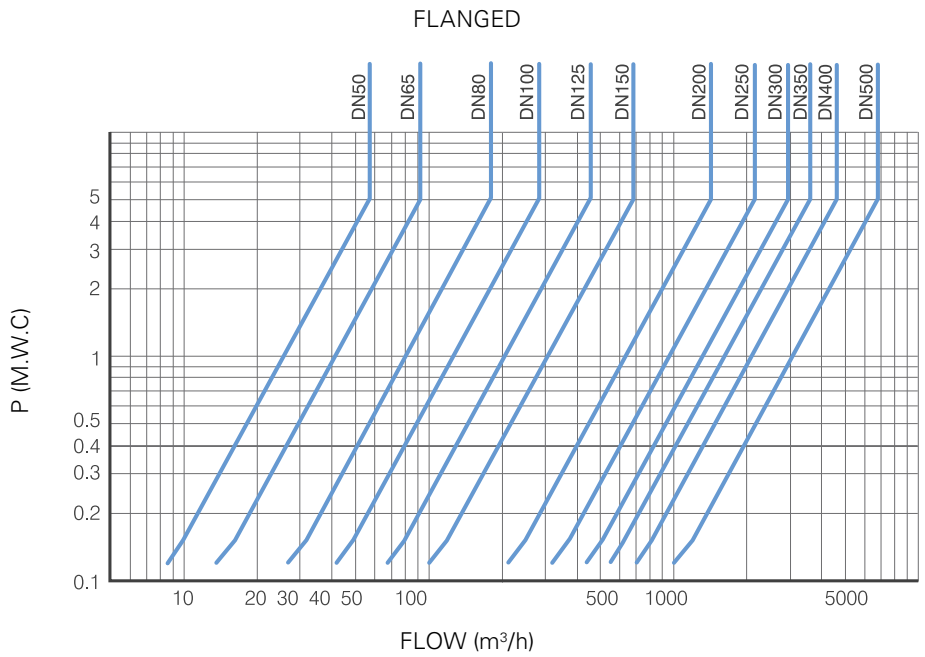


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# Pressure Drop Graph



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