

# Check Valves Type ABS



Non-return valves of cast iron or plastic, for horizontal or vertical discharge lines in accordance with EN 12050-4.

## Ball Check Valves

Sulzer ball check valves are designed for use in drainage and sewer mains. The unique design of a ball check valve allows free movement of the ball and at the same time a good seal. In operation, the ball moves so that the entire pipe cross-section is free.

Ball check valves are self-cleaning. Deposits on the ball which may form while it is in the closed position are removed by the rolling movement of the ball as it moves from the closed to the open position.

The ball recess chamber has a removable cover which allows for internal inspection without the need to remove the valve from the discharge line.

When fitting to horizontal discharge lines the ball recess chamber must be positioned above the horizontal axis of the valve.

**Sizes:** G 1¼", G 1½", G 2", G 2½" (with internal thread).

DN 80, DN 100, DN 150 (with drilled flange connection).

**Rated pressure:** 10 bar



## Flap Check Valves

The Sulzer flap check valve is a synthetic non-return valve for use in drainage and wastewater mains. Its two-piece design features a single disc seal that operates on a moulded rubber hinge, and when open makes the total diameter of the pipe available for the passage of the medium. This results in a minimal pressure drop and avoids deposits or blockage. Venting of the pipe can be achieved by removing the plug screw.

**Sizes:** G 1¼", G 1½"/ G 2" (with internal thread).

G 1½"/ G 2" converts between sizes by fitting/removal of threaded inserts (tool and inserts included).

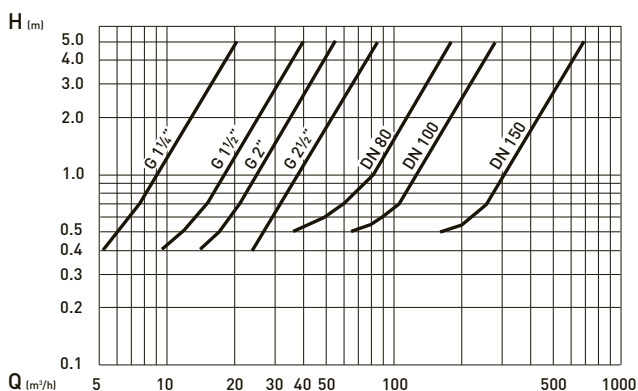
**Rated pressure:** 4 bar

**Water test pressure:** 6 bar

## Features

- Silent shut-off and effective sealing.
- No flutter of the flap in the case of long pipelines (flap valve).
- Self-cleaning effect due to the ball movement (ball valve).
- No wearing parts.
- Venting device (selected valves).
- Vertical or horizontal installation.
- Minimum head losses.
- Full pipe cross-section.
- Maximum operating temperature 60 °C.

## Head Losses



H = Total head. Q = Discharge volume.

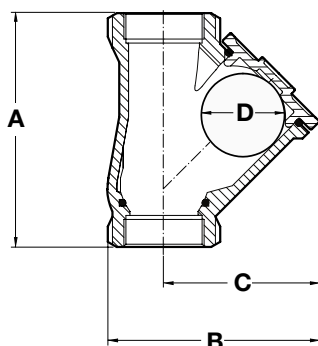
## Materials

Description	Material	
<b>Ball valves</b>	Housing	Cast iron EN-GJL-250
	Ball (G 1¼" - G 2½")	Phenolic resin
	Ball (DN 80 - DN 150)	NBR with hollow aluminium core
	Fasteners	Stainless steel
<b>Flap valve G 1¼"</b>	Seal	NBR
	Housing	PA
	Flap seal	NBR
<b>Flap valve G 1½" &amp; G 2"</b>	Plug screw M12	PA
	Fasteners	Stainless steel
	Housing	PA
	Flap seal	NBR
<b>Flap valve G 1½" &amp; G 2"</b>	Plug screw	PA
	Fasteners	Stainless steel

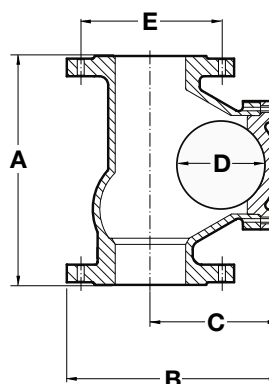
## Dimensions and Weights

Type	Size	Dimensions [mm]					Weight [kg]
		A	B	C	D	E	
Ball valve threaded	G 1¼"	141	128	67	50	-	2.2
	G 1½"	150	136	72	53	-	2.8
	G 2"	175	159	85	62	-	3.9
	G 2½"	214	190	100	75	-	6.5
Ball valve flange (drilled)	DN 80	260	248	146	112	160	15.0
	DN 100	300	286	194	130	180	25.0
	DN 150	400	381	240	172	240	46.0
Flap valve threaded	G 1¼"	90	86	-	-	-	0.2
Flap valve threaded	G 1½" / G 2"	150	125	-	-	-	0.7

## Ball Check Valves

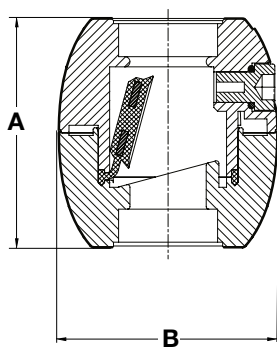


G 1¼" - G 2½"

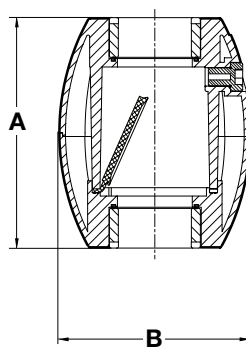


DN 80 - DN 150

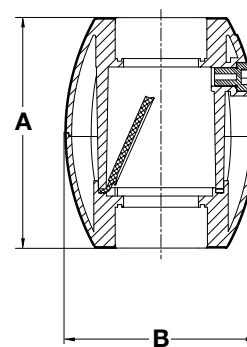
## Flap Check Valves



G 1¼"



G 1½"



G 2"