

Palmer Bowlus Flume

3.82

ISO 4359 COMPLIANT

General

Palmer Bowlus flumes are designed for installation in partly full circular pipes with gravity flow and unpressurized lines in accordance with ISO 4359.

These flumes provide a close relation between liquid level and flow rate in a duct or a pipeline.

The ultrasonic sensor measures the actual liquid level.

The flume requires a straight of minimum $25 \times \text{DN}$ upstream to achieve laminar flow and max 2% gravitation in the pipe system.

Sensors must be installed $\text{DN}/2$ before bottom profile (L, see illustration on the back).

For prefabricated flumes, an extended bracket for ultrasonic sensors is available. The sensor bracket is made of stainless steel. In places, where it is not possible to use the extended sensor bracket, the standard MJK bracket for ultrasonic sensors can be used.

Features

- Connection to standard pipeline dimensions.
- Delivered as complete channel sections ensuring the best possible measuring accuracy.
- Many applied in wastewater applications for measuring continuous flow and storm flow.
- Often mounted in wells, where only a few adjustments for installation are needed.
- Simple form keeps the flume clean.
- Made in PVC.

Applications

- Wastewater for measuring continuous flow.
- Storm flow.



DATASHEET

EN 3.82 PALMER BOWLUS FLUME DATASHEET 1911

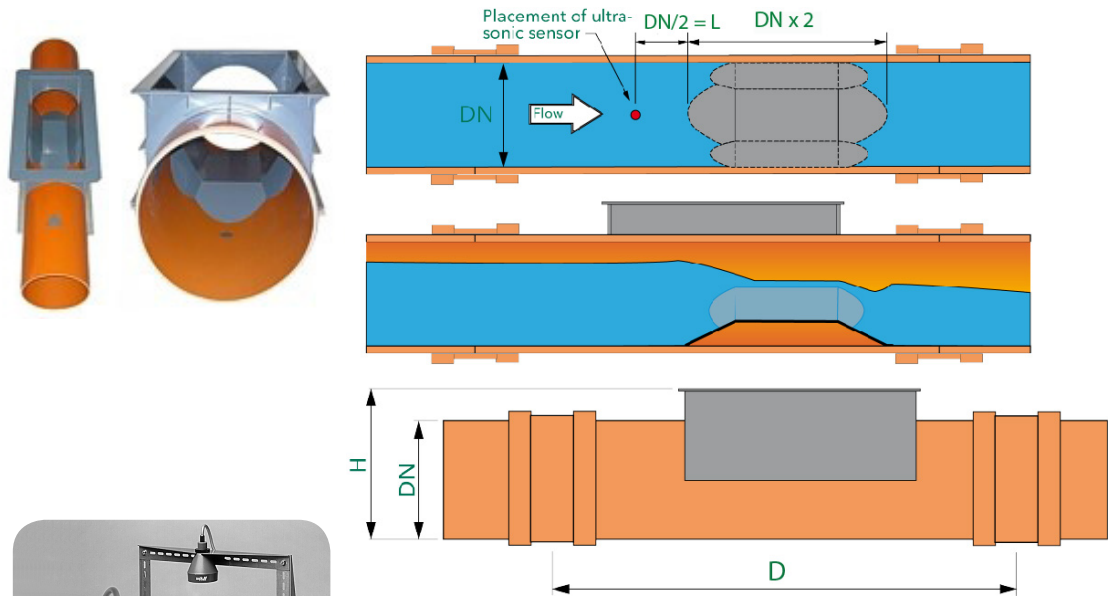
mjk
a xylem brand

Palmer Bowlus Flume

Specifications

Palmer Bowlus Flume	
Material	PVC
pH range	3 - 10 pH
Temperature range	-20...+30° C

Dimensions



Accessories



Order numbers

Order number	Item name	DN [mm]	Size [inch]	Q nom [m³/h]	Q min-max [m³/h]	H [mm]	D [mm]	L [mm]
170090	Palmer & Bowlus flume, DN100, 12 m³/h	100	4"	12	2,5-12	155	800	50
170091	Palmer & Bowlus flume, DN160, 45 m³/h	160	6"	45	9-45	210	800	80
170092	Palmer & Bowlus flume, DN200, 70 m³/h	200	8"	70	14-70	250	1190	100
170093	Palmer & Bowlus flume, DN250, 100 m³/h	250	10"	100	22- 10	305	1190	125
170094	Palmer & Bowlus flume, DN315, 220 m³/h	315	12"	220	40-200	368	1400	157,5
170095	Palmer & Bowlus flume, DN400, 450 m³/h	400	15"	450	65-325	450	1500	200
170096	Palmer & Bowlus flume, DN500, 730 m³/h	500	20"	730	145-730	550	1700	250
170097	Palmer & Bowlus flume, DN630, 980 m³/h	630	24"	980	220-1100	685	2000	315
170098	Palmer & Bowlus flume, DN800, 1700 m³/h	800	30"	1700	350-1750	860	2600	400
170099	Palmer & Bowlus flume, DN1000, 4380 m³/h	1000	40"	4380	875-4380	1050	3500	500

Order numbers

Accessories

Order number	Item name
200219	Sensor bracket, short 120 mm
200220	Sensor bracket, standard, 325 mm
200230	Sensor bracket for flume max. width 550 mm / 21.6"
200235	Sensor bracket for flume max. width 950 mm / 37.4"