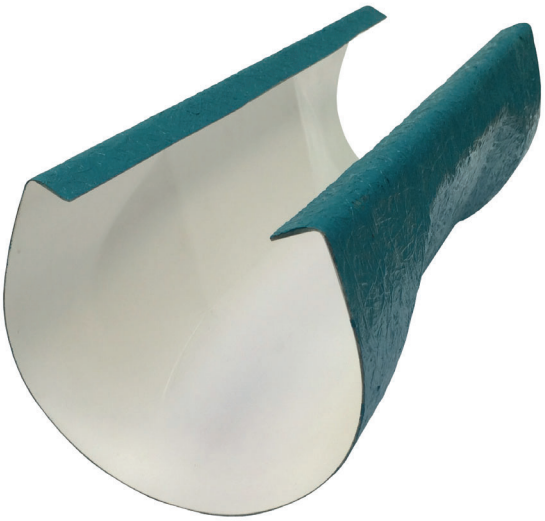


PB PALMER BOWLUS

Hydraulic modeler

For flow measurement in outflow pipe or no pressurized pipes

Direct installation in the pipe or manhole

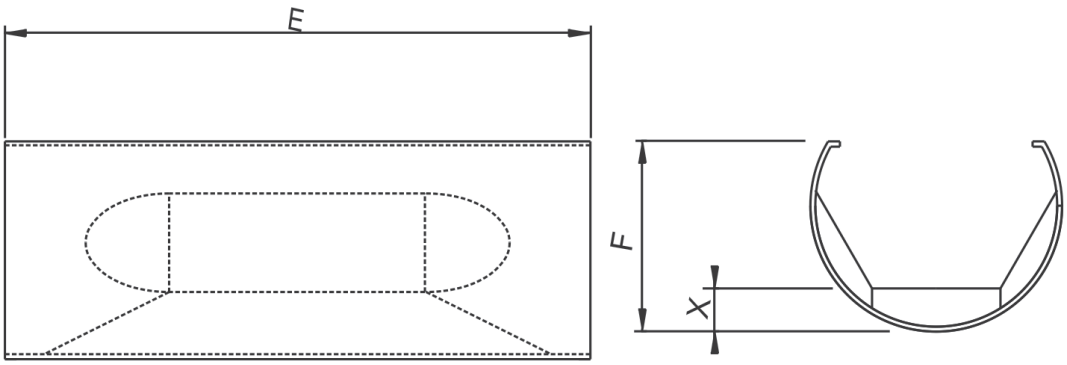
Flow rates from 0,45 m3/h to 1800m3/h

Matching Sets with all SGM-LEKTRA open channels flow measurement systems

Low cost system

Ideal to circular duct flowrate measure

Essentially a hydraulic modeler designed to increase, upstream of the restriction, the fluid head during its outflow. The Palmer-Bowlus upstream fluid head, increases or decreases in function of the fluid quantity flowing over it. The head measured by a level transmitter is then used to calculate the instantaneous flow rate value. The Palmer-Bowlus is mainly used in pipes or ducts accessible through the manholes. The easy installation, and the contained installation cost, are the reason for the applications number increasing of this system to measure the flow rate.



DN (mm)	E (mm)	F (mm)	X (mm)
100	250	75	17
150	400	132	29
200	400	125	29
250	600	208	46
300	600	200	46
350	800	262,5	58,5
400	950	340	75
450	950	335	75
500	950	325	75
600	1450	530	117
700	1450	525	117
800	1450	500	117

PB Pre-fabricated Palmer-Bowlus

Insertion installation in already in place pipes

	DN pipe (mm)	
	100	DN100 (4"); range 0,45÷6m3/h (max.8m3/h)
	150	DN150 (6"); range 0,68÷15m3/h (max. 19m3/h)
	200	DN200 (8") - with 2 spacing bars; range 1,12÷48m3/h (max. 56m3/h)
	250	DN250 (10"); range 1,29÷68m3/h (max. 76m3/h)
	300	DN300 (12") - with 2 spacing bars; range 2,27÷136m3/h (max.150m3/h)
	350	DN350 (14") - with 2 spacing bars; range 3÷161m3/h (max. 192m3/h) Wooden crate packing required (650D023A)
	400	DN400 (16"); range 2,23÷213m3/h (max. 240m3/h) Wooden crate packing required (650D015A)
	450	DN450 (18") - with 3 spacing bars; range 3,8÷330m3/h (max. 365m3/h) Wooden crate packing required (650D015A)
	500	DN500 (20") - with 3 spacing bars; range 5,34÷468m3/h (max.532m3/h) Wooden crate packing required (650D015A)
	600	DN600 (24"); range 10÷560m3/h (max. 623m3/h) Wooden crate packing required (650D014A)
	700	DN700 (28"); range 15÷1019m3/h (max. 1115m3/h) Wooden crate packing required (650D014A)
	800	DN800 (32") - with 4 spacing bars; range 18÷1672m3/h (max. 1806m3/h) Wooden crate packing required (650D014A)
	Construction materials	
	A	Fiberglass
	Z	Special
	Accessories	
	0	None
	2	PTU50/51 holder in PVC (835A027R)
	3	FLOWMETER holder in PVC (835B027R)
	4	Wall mounting bracket in SS316 for PTU50 for manhole L= 250mm (900A011A)
	9	Special