

# Parshall Flume

ISO 9826 COMPLIANT

3.81

## General

In accordance with ISO 9826, Parshall flumes are designed for measurement of volumetric flow rate in rectangular channels with gravity flow. The flumes are made of stainless steel and enable measurements within the range specified on the back.

For Parshall flumes, measurements in a low range will be encumbered with significant errors.

Conditions for obtaining accuracy with the flume can be reached by maintaining a specific gradient and minimum inlet and outlet channel length.

The flume is embedded in concrete in a rectangular channel with subcritical flow. The ultrasonic sensor measures the actual liquid level.

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.

Sensor must be installed according to table on back.

## Features

- Often applied in waste water applications for measuring continuous flow and storm flow
- Often mounted in wells, where only a few adjustments for installation are needed
- Made of stainless steel 304.

## Applications

- Inlet wastewater for treatment plants.
- Final effluent water from treatment plants.
- Storm flow.
- Industrial wastewater.



## DATASHEET

EN 3.81 PARSHALL FLUME DATASHEET 1911

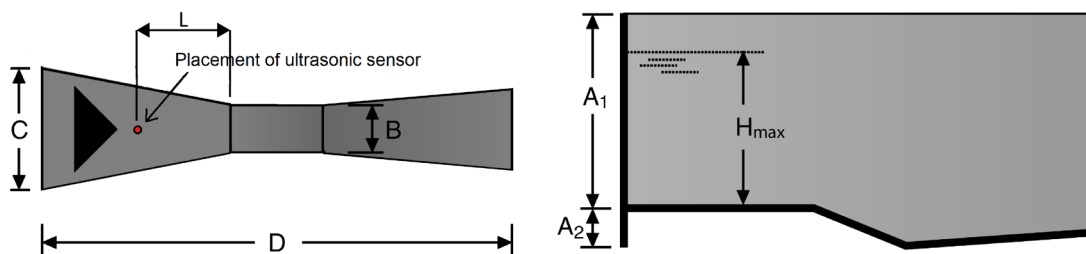
**mjk**  
a xylem brand

# Parshall Flume

## Specifications

Parshall flume	
Material	Steel 304
pH range	3-12 pH
Temperature range	-20...+60° C; for short periods up to 90° C

## Dimensions



## Accessories



## Order numbers

Order number	Item name	Size [inch]	Q min-max [m³/h]	H max [cm]	A1 [cm]	A2 [cm]	B [cm]	C [cm]	D [cm]	L [cm]
170010	Parshall flume 1" 1-20m³/h	1"	1-20	21	24,8	2,86	2,54	16,75	63,5	24,2
170011	Parshall flume 2" 2-48m³/h	2"	2-48	24	28,6	4,28	5,08	21,35	77,5	27,6
170012	Parshall flume 3" 3-151m³/h	3"	3-151	33	49,2	5,71	7,62	25,88	91,5	31,1
170013	Parshall flume 6" 5-470m³/h	6"	5-470	45	69,6	11,43	15,24	39,69	152,4	41,4
170014	Parshall flume 9" 9-907m³/h	9"	9-907	61	87,6	11,43	22,86	57,47	162,6	58,8
170015	Parshall flume 12" 11-1640m³/h	12"	11-1640	76	99,06	22,9	30,48	84,46	286,7	91,4
170016	Parshall flume 18" 15-2509m³/h	18"	15-2509	76	99,06	22,9	45,7	102,6	294,3	96,5
170017	Parshall flume 24" 43-3373m³/h	24"	43-3373	76	99,06	22,9	61	120,7	301,9	101,6
170018	Parshall flume 36" 61-5137m³/h	36"	61-5137	76	99,06	22,9	91,4	157,2	316,9	111,8
170019	Parshall flume 60" 162-9000m³/h	60"	162-9000	76	99,06	22,9	152,4	230,2	346,7	132,1

## 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"