

Parshall, Palmer Bowlus, and "H" Flumes

Primary Devices for Open Channel Flow Measurement



Description

Global Water's Parshall, Palmer Bowlus, and "H" Flumes are constructed of high quality polyester resin and fiberglass. These flumes are durable, highly accurate, and easy to install.

These primary device flumes constrict an open channel's flow either horizontally, vertically, or both horizontally and vertically. Once the flow is backed up behind the flume's constriction, there is a defined relationship between the upstream water level and the open channel flow through the constriction. This relationship can be determined either by an equation or a look-up table.

Global Water's three standard molded flumes include:

- The *Parshall* flume, which constricts primarily horizontally, and is design for rectangular or trapezoidal channels.
- The *Palmer-Bowlus*, which constricts the flow vertically and horizontally and can be molded to be inserted into an existing half-round pipe.
- "*H*" flumes, which attach to the ends of pipes where the water is free-falling.

Diagrams of these flumes, dimensions, and flow data are available on Global Water's website at www.globalw.com.

Features

- High quality polyester resin and fiber-glass materials
- Highly durable and accurate
- Easy to install

Applications

Parshall Flume: Ideal for rectangular channels, including many irrigation, environmental, and industrial channels.

Palmer Bowlus: Ideal for monitoring sewer flow, effluent, influent, and other flows in round channels such as pipes.

"H" Flume: Ideal for measuring runoff from small agricultural wetlands, feedlots, infiltration areas, as well as flows in streams and sewage systems.

Ordering & Options

Flumes*

Order No.	Flume Type	Size
01-006	Parshall	1"W
01-007	Parshall	2"W
01-008	Parshall	3"W
01-009	Parshall	6"W
01-010	Parshall	9"W
01-011	Parshall	12"W
01-012	Parshall	18"W
01-014	Palmer-Bowlus	4"D
01-015	Palmer-Bowlus	6"D
01-016	Palmer-Bowlus	8"D
01-027	"H"	0.5"H
01-028	"H"	0.75"H
01-029	"H"	1.0"H

* Larger sizes are available, please call for more information. Please contact Global Water regarding your selection. Diagrams and dimension/flow data for all flumes are at www.globalw.com.

Accessories

Order No.	Description
Flume-SW8	Attached 8" Stilling Well
Flume-SWP2	2" Stilling Well Port
Flume-SG	Staff Gauge
Flume-BT	Bubbler Tube
Flume-WW	Wingwalls (pair)
Flume-SW2	2" Stilling Well
Flume-CAC	Concrete Anchor Clips



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