

Fiberglass

# Palmer-Bowlus Flume



## APPLICATIONS

- Sanitary Sewer Flow Monitoring
- Stormwater Flow Measurement
- Combined Sewer Overflow (CSO) Monitoring
- Wastewater Treatment Monitoring
- Industrial Wastewater Discharge
- Lift Station Flow Measurement
- Interceptor Sewer Monitoring
- Inflow & Infiltration (I&I) Studies



## PRODUCT DESCRIPTION

The Palmer-Bowlus metering flume is used to measure water and wastewater flow in open channels or non-pressurized pipelines. It is typically installed in “U”-shaped channels fed by pipelines such as storm drains and sanitary sewers, requiring minimal modification to circular conduits.

### Key Features of Palmer-Bowlus Flumes

- Low head loss design minimizes impact on upstream flow conditions
- Minimal flow restriction compared to other metering devices
- Smooth interior surfaces reduce debris buildup and maintenance requirements
- Compatible with ultrasonic, radar, and level-based flow measurement systems
- Available in a variety of standard sizes to fit existing pipe diameters

**Available in both insert-type and cut-back configurations.**

## BENEFITS

**Retrofit Friendly** – Installs in existing pipes and manholes.

**Low Head Loss** – Minimizes upstream flow restrictions.

**Accurate Flow Measurement** – Designed for partially full pipe applications.

**Corrosion-Resistant Fiberglass** – Lightweight, durable, and long-lasting.

Size	Min. Flow Range	Max. Flow Range
4 in	1.9367 GPM	54.453 GPM
6 in	2.7191 GPM	132.44 GPM
8 in	3.4247 GPM	309.67 GPM
10 in	4.1417 GPM	502.36 GPM
12 in	7.3465 GPM	752.40 GPM
15 in	12.079 GPM	1,385.0 GPM
18 in	22.662 GPM	2,071.0 GPM
21 in	30.028 GPM	3,160.9 GPM
24 in	43.002 GPM	4,248.3 GPM
27 in	56.427 GPM	5,873.5 GPM
30 in	58.750 GPM	7,413.6 GPM
36 in	110.43 GPM	7,754.70 GPM
42 in	174.71 GPM	17,206 GPM
48 in	238.72 GPM	24,031 GPM

PRODUCT PHOTOS



CUSTOMIZATIONS AND OPTIONS

- **Staff Gauge:** available in various widths and markings, including flow data
- **Stilling Well:** integral or remote; 6", 8", 10", or 12" ID, with or without plug
- **Bubbler Tube:** stainless steel, 1/4" ID, integral to flume
- **Sampler Tube:** stainless steel, 3/8" ID, integral to flume
- **Inlet & Outlet End Connection:** integral or removable
- **Pipe Connection:** neoprene boot or ANSI pipe flange connection
- **Special Chemical Resistant Fabrication:** pH range of 1-14
- **Ultrasonic Transducer Bracket:** vertically adjustable
- **pH Sensor Cavity:** fabricated to fit most sensors
- **Wing Walls & Bulkheads:** custom fabricated to match channel width
- **Nesting Options:** standard or special designs
- **Energy Absorption Racks:** fixed or removable
- **Standard or Special Depths:** including surge boxes
- **Enclosed Flumes:** for odor control
- **Flume Covers:** grating, fiber sheeting, clear polycarbonate



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