



Fiberglass Flume Liners

Montana flumes are a modified form of the popular Parshall flume. Where the Parshall flume has an hourglass shape (when viewed from above), Montana flumes shorten the flume by removing the throat and discharge sections of the flume – leaving only the constricting approach of the Parshall to produce a differential head related to the flow rate. Due to the lack of a throat and discharge section, Montana flumes can only be used where free, unimpeded discharge occurs at all flow rates.

Typical Montana Flume Applications Include

Irrigation (water usage and runoff)
 Hydrological studies (springs, streams, rivers and storm water runoff)
 Industrial pretreatment
 Select municipal treatment uses



Advantages Of The Montana Flume Include

Use the same discharge tables and equations as same sized Parshall flume
 Accurate to +/- 3-5%
 Self-cleaning capacity
 Wide operating range
 Minimal head loss (about ¼ of that of a similarly sized weir)
 Available in standard sizes for flows from 1.4 -275,541 GPM



Optional Features

Inlet end adapters for pipe or flange connections
 Staff gauges in tenths / hundredths of a foot or centimeter increments
 Flow meter mounts, including:

- Ultrasonic sensor mounting brackets
- Bubble tubes
- Submerged probe cavities
- Stilling wells (attached, detached, and connection only)

 Parameter sensor mounts, including:

- Removable sample tubes
- Probe wells
- Removable probe holders

 FRP grating and flat plate flume covers

