

Adapters

These adapters mount the paddle wheel flow meter to pipes of various sizes and schedules.

Guidelines

Most difficulties with flow meters are traceable to improper mountings and/or improper pipe sizing. Paddle wheel flow meters rely on the momentum or movement of water to spin the paddle and keep it free of debris, sediment and air bubbles. Reduced accuracy and fouling problems are typical when pipes are over sized and flow rates are not within the recommend range. Pipes must remain full of water at all flow rates. This is especially critical when monitoring downward flows on vertical runs.



Pipe Mounted Adapter (photo at left)

This system offers the simplest installation procedure and is cost effective for pipes 4" in diameter and smaller. These 13" pipe sections are available in sizes ranging from 1/2" to 4". The smaller sizes are only offered in schedule 80. Installation consists of removing a section of the existing pipe, coupling in the Pipe Mounted Adapter, allowing the glue to dry and restoring the flow.

<i>Pipe Size</i>	<i>Flow Range (GPM)</i>	<i>Available in</i>
1/2"	0.6 – 15	Schedule 80*
3/4"	2 – 30	Schedule 80*
1"	5 – 55	Schedule 80*
1 1/2"	10 – 125	Schedule 40 & 80
2"	15 – 200	Schedule 40 & 80
3"	40 – 450	Schedule 40 & 80
4"	70 – 800	Schedule 40 & 80

*Use schedule 80 adapters for schedule 40 applications.



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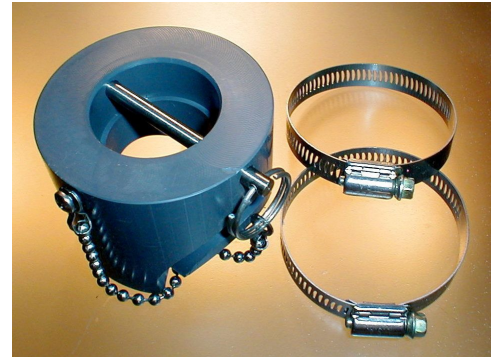
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Saddle Mounted Adapter

(pictured below)

These adapters mount directly to the existing plumbing. The adapter and pipe are cleaned and coated with either PVC cement or silicon sealer, then using the stainless steel clamps, the adapter is secured to the pipe. Next, the adapter is used as a guide, and 1 ½" hole saw is used to bore through the pipe. These adapters will only accommodate schedule 40 and schedule 80 pipe; other pipes will require a custom-machined adapter. (See section below)

<i>Pipe Size</i>	<i>Flow Range (GPM)</i>	<i>Available in</i>
1 ½"	10 – 125	Schedule 40 & 80
2"	15– 200	Schedule 40 & 80
3"	40 – 450	Schedule 40 & 80
4"	70 – 800	Schedule 40 & 80
6"	120 – 1800	Schedule 40 & 80
8"	250 – 3200	Schedule 40 & 80



Custom Saddle Adapters

Adapters can be custom machined for pipes with smooth outer surfaces. In order to machine the adapters, the outside diameter and wall thickness of the pipe are required. The accuracy of the meter is greatly affected by the depth the paddle wheel is placed in the flow; therefore, wall thickness of the pipe must be accurate to within 0.010".

Plugs

PVC plugs allow the meter to be removed for cleaning or servicing.



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