

## SADDLES

Midwest Instruments & Controls, LLC, manufactures saddles that either “clamp” to your existing pipe or are factory “bonded” to a nominal 13” section of pipe.

Please note that saddles are specific to pipe size and schedule; for example, a saddle for a 3" schedule 40 pipe will not work on a 3" schedule 80 pipe. Meter heads, whether pipe mounted or detached display, can be field programmed to any saddle size.

### Bonded Saddles:

Bonded saddles are factory adhered to a 13” section of pipe. Installation requires the removal of a section of the existing pipe and coupling in the replacement pipe section with the pre-mounted saddle. Once the pipe connections are completed and the adhesive has cured, normal flow can be restored. Bonded saddle pipe sections are available in sizes ranging from ½” to 4”. Pipe sizes ½”, ¾”, and 1” are offered in schedule 80 only. Schedule 40 and 80 pipes share the same outside diameter, allowing our schedule 80 pipe sections to be connected directly into existing schedule 40 piping systems.

### Clamped Saddles:

Clamped saddles mount directly onto existing pipe systems without removing a pipe section. The pipe surface and saddle are cleaned, and PVC cement or silicone sealant is applied to the saddle and pipe. The saddle is secured to the pipe using the included stainless steel hose clamps. Once installed and cured, the saddle serves as drilled guide. A 1½” hole saw (not included) is used to bore the opening through the pipe.

### Custom Clamped Saddles:

Custom clamped saddles can be machined to match the dimensions of your existing pipe. A pipe with a smooth outer surface is required for proper sealing and installation. To manufacture the saddle, we require the outside diameter and wall thickness of the pipe. Because the depth of the paddle wheel within the flow stream directly affects meter performance, accurate pipe measurements are important. Wall thickness should be known within  $\pm 0.010$ ". These saddles mount and install in the same manner as the standard clamped saddle described above. Custom saddles are made to order. Please call 715-456-3977 to discuss your application.

## Bonded Saddles

<b>Pipe Size</b>	<b>Flow rate (Gallons/min)</b>	<b>Availability</b>
1/2"	0.5 – 15	Schedule 80
3/4"	2 – 30	Schedule 80
1"	5 – 50	Schedule 80
1 1/2"	10 – 200	Schedule 80 & 40
2"	15 – 200	Schedule 80 & 40
3"	40 – 400	Schedule 80 & 40
4"	70 – 800	Schedule 80 & 40

## Clamped Saddles

<b>Pipe Size</b>	<b>Flow rate (Gallons/min)</b>	<b>Availability</b>
2"	15 – 200	Schedule 40 & 80
3"	40 – 400	Schedule 40 & 80
4"	70 – 800	Schedule 40 & 80
6"	120 – 1700	Schedule 40 & 80
8"	250 – 3200	Schedule 40 & 80