ORDER FORM FOR SHORT PIRO-FLOWGAGES

- CPF GH for **TOP MOUNTED** APPLICATION
- CPF GV for **SIDE MOUNTED** APPLICATION

PIPE SIZE _________

PIPE SCHEDULE □ 40 □ 80 (SCH 80 GAGES ARE NON-REFUNDABLE)

ORIENTATION ____
MUST BE A LETTER FOR CPF GH
MUST BE A NUMBER FOR CPF GV
SHORT PIRO-FLOWGAGE

Easy Installation:
1. Easily installed in horizontal and vertical pipe
2. Calibrations available in sizes 1-1/2” to 12”

Easy Operation:
1. Direct reading in Gallons Per Minute (GPM)\(^1\)
2. Gauge fully visible from both sides, as shown in picture
3. A simplified method of measuring water velocity

Durability:
1. Pressures to 250 psig
2. Scale calibrations engraved
3. All parts hard drawn brass, stainless steel and acrylic plastic
4. O-Ring Packed
5. Accurate precision instrument
6. One Moving Part

Uses for Piro-Flowgages:
1. Industrial and private water and power companies’ customer service
2. Irrigation districts to check pumps and diversion lines
3. Swimming pool pumps to indicate water flow in water treatment systems
4. Colleges for laboratory and field work
5. Water amusement parks

\(^1\) May be scaled in alternative units, such as Liters/Sec, at additional cost
INSTALLATION AND OPERATION INSTRUCTIONS

TOP MOUNTING IN HORIZONTAL PIPE (Example 1):
Drill & tap a 1/2" NPT hole on the top of the pipe. The pipe must be horizontal to receive the instrument, so that the plastic manometer stands vertically. For best results, the instrument should be located approximately 10 pipe diameters (or more) downstream of any valves, bends, ells, etc., and should have 3 or 4 pipe diameters of straight pipe downstream of the instrument. Screw the gage into the tapped hole with a wrench on the brass nut at the bottom of the plastic. **Do not put a wrench or any strain on the plexiglass.** Rotate the instrument so that the flow arrow points in the direction of flow, and so that the face of the plexiglass is parallel with the pipe. Bleed all air out of the instrument using the top valve. Take all readings from the bottom of the floater/indicator cone.

SIDE MOUNTING IN A HORIZONTAL OR VERTICAL PIPE (Examples 2 & 3):
Drill & tap a 1/2" NPT hole on the side of the pipe. Loosen the manometer screw and swivel the manometer so that the plastic will stand vertically. Re-tighten the manometer screw until the o-ring seats seal against the plastic. **Do not over-tighten.** For best results, the instrument should be located approximately 10 pipe diameters (or more) downstream of any valves, bends, ells, etc., and should have 3 or 4 pipe diameters of straight pipe downstream of the instrument. Screw the gage into the tapped hole with a wrench on the brass nut at the bottom of the swivel head. **Do not put a wrench or any strain on the plexiglass.** The flow hole must face the direction of flow, (must face upstream) and the face of the plexiglass must be orientated vertically upwards. Bleed all air out of the instrument using the top valve. Take all readings from the bottom of the floater/indicator cone.

Under no circumstances should the user try to adjust the calibration screw. Any attempt to adjust the calibration screw will void both the accuracy and warranty of the instrument.
FLOWGAGE OPERATING CAPACITIES

PIRO-VELOCITY GAUGE: 2 ft/sec to 10 ft/sec

PIRO-FLOWGAGE

<table>
<thead>
<tr>
<th>SIZE (IPS)</th>
<th>GALLONS/MINUTE</th>
</tr>
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<tbody>
<tr>
<td>1-1/2</td>
<td>10 - 70</td>
</tr>
<tr>
<td>2</td>
<td>20 - 100</td>
</tr>
<tr>
<td>2-1/2</td>
<td>30 - 150</td>
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<tr>
<td>3</td>
<td>40 - 240</td>
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<tr>
<td>4</td>
<td>100 - 400</td>
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<tr>
<td>5</td>
<td>200 - 600</td>
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<td>6</td>
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<td>8</td>
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<tr>
<td>10</td>
<td>500 - 2500</td>
</tr>
<tr>
<td>12</td>
<td>700 - 3500</td>
</tr>
</tbody>
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HIGHER CAPACITIES ARE AVAILABLE FOR AN ADDITIONAL COST.

METRIC SCALES ARE AVAILABLE AT NO ADDITIONAL CHARGE, FOR RANGES THAT ARE REPRESENTED ABOVE.  (E.G. A METER FOR NPS 6 PIPE RATED IN ENGLISH UNITS FROM 200 - 900 GPM, WILL COVER THE RANGE 760 - 3400 LITERS/MINUTE.  IT’S JUST MATH.)
COX PIRO-FLOWGAGE ORIENTATIONS FOR TOP MOUNTED FLOW INSTRUMENTS

On this sheet are shown the various orientations that the Cox Piro-Flowgage for Top Mounting can have. These are critical for proper installation and use, as the hole in the brass probe must face the flow.

To better facilitate the ordering process, we have provided orientation designations for each of the pictures shown here.

When ordering the Top Mounted Flowgage (Part Number CPFGH) please indicate an orientation number along with the pipe size.

IF NO ORIENTATION NUMBER IS REQUESTED, THE DEFAULT IS “A”
COX PIRO-FLOWGAGE ORIENTATIONS FOR SIDE MOUNTED FLOW INSTRUMENTS

On this sheet are shown the various orientations that the Cox Piro-Flowgage for Side Mounting can have. These are critical for proper installation and use, as the **hole in the brass probe must face the flow**.

To better facilitate the ordering process, we have provided orientation numbers for each of the pictures shown here.

When ordering the *Side Mounted* Flowgage (Part Number CPFGV) please indicate an orientation number along with the pipe size. **IF NO ORIENTATION NUMBER IS REQUESTED, THE DEFAULT IS #1**

Example: Vertical pipe, downward flow, gage mounted on the left hand side of the pipe: Orientation #1.

Example: Side mount on a horizontal or inclined pipe, flow moving away from the viewer, mounted on the right hand side: Orientation #7
FOR SHORT PIRO FLOWGAGES WITH SADDLES

When the Short Piro Flowgage will be inserted into the pipe using a saddle, an additional length must be added to the brass probe.

When ordering a Short Piro Flowgage, please specify if a saddle is used, and provide the “Added Length” in inches, as shown below.

If the additional length is not added to the brass probe, the flowmeter will not read accurately.