PURGE ROTAMETERS

FOR ACCURATE INDICATION AND CONTROL OF GAS AND LIQUID FLOW IN LOW RANGES.
INTRODUCTION

McCrometer purge rotameters are precision-made instruments designed to accurately measure the flow of fluids and gases in small quantities. These rotameters are particularly well-suited for purging applications such as: purging orifice legs, instrument cases, pump seals and other components to prevent corrosion or slurry sedimentation. Other specialized applications include liquid level and specific gravity indication, fluid sampling and gas chromatography.

These rotameters can also be used for the measurement and control of low flows of a variety of liquids and gases. Flow capacities range from .0048 to 28.7 gph for water, and .058 to 120 scfh for air. McCrometer purge rotameters are available with flow and pressure control devices and in various designs and materials to meet specific service requirements. The Type 7340, for instance, is constructed of unplasticized KEL-F® for use with such liquids as hydrochloric acid and sodium hydroxide.

* T.M. Pennwalt Corp.

COMPLETE LINE OF LOW FLOW ROTAMETERS

SELECTION GUIDE

<table>
<thead>
<tr>
<th>ROTAMETER TYPE</th>
<th>ACCURACY</th>
<th>CAPACITY RANGE</th>
<th>SCALES VALVE</th>
<th>CONSTRUCTION TEMP.</th>
<th>NEEDLE PRES.</th>
<th>MAX.</th>
<th>MAX.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE 7050</td>
<td>±4% Standard ±2% with optional calibration</td>
<td>.0048 to 28.0</td>
<td>5” Long Decal 0-10 or optional etched, direct reading</td>
<td>Stainless Steel Body</td>
<td>Optional</td>
<td>200°F</td>
<td>300psi</td>
</tr>
<tr>
<td>TYPE 7030</td>
<td>±6% Standard ±3% with optional calibration</td>
<td>.06 to 28.7</td>
<td>3” Long Decal 0-10 or optional etched, direct reading</td>
<td>Interchangeable Glass Metering Tube</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TYPE 7010</td>
<td>±10%</td>
<td>.2 to 12.0</td>
<td>11/2” Long Decal 0-10 ref. or direct reading in gph/scfh</td>
<td>Internal Check Valve (except 7050)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TYPE 7510</td>
<td>±10%</td>
<td>.20 to 12.0</td>
<td>11/2” Long Decal 0-10 ref. or direct reading in gph/scfh</td>
<td>Anodized Aluminum Body Glass Metering Tube</td>
<td>Integral</td>
<td>200°F</td>
<td>200 psi</td>
</tr>
<tr>
<td>TYPE 7200</td>
<td>±10%</td>
<td>.025 to 12.0</td>
<td>11/2” Long Decal 0-10 ref. or direct reading in gph/scfh</td>
<td>Clear Acrylic Body Integral Metering Tube</td>
<td>Optional</td>
<td>160°F</td>
<td>100 psi</td>
</tr>
<tr>
<td>TYPE 7340</td>
<td>±10%</td>
<td>1.8 to 130.0</td>
<td>4” in any desired units of flow</td>
<td>Kel-F Body Integral Metering Tube</td>
<td>Not Available</td>
<td>200°F</td>
<td>100 psi</td>
</tr>
</tbody>
</table>

SERIES 3200 Differential Pressure Controllers available on Purge rotameters (except Type 7340) for use where pipeline pressures fluctuate (See page 7).
**TYPE 7510 ROTAMETER**

**FEATURES**
- Integral needle valve for flow control.
- Sensitive check valve protects against back flow.
- All wetted parts are stainless steel.
- Can be equipped with differential pressure controller.

**APPLICATIONS**
Type 7510 rotameters are used in purge applications, such as those described on page 2, where moderate accuracy is required. This rotameter can handle pressures of up to 200 psig and temperatures to 200°F.

**DESCRIPTION**
The Type 7510 is a compact, low cost purge rotameter with a 11/2” scale cemented directly on the meter body. The body is made of anodized aluminum and all wetted parts are made of corrosion resistant materials. The Type 7510 features an integral flow control needle valve at the inlet, and a check valve to protect against backflow.

Flow capacities range from .2 to 12 gph for water and from .37 to 50 scfh for air. Metering tubes and floats can be changed to obtain different flow capacities within this range. The Type 7510 rotameter can also be equipped with a differential pressure controller.

**SPECIFICATIONS**
- **CONNECTIONS:** 1/8”, horizontal threaded
- **RANGE:** 10 to 1, or greater
- **ACCURACY:** ±10% F.S.
- **MAXIMUM OPERATING TEMPERATURE AND PRESSURE:** 200 psig at 200°F.
- **SCALES:** Cemented directly on body in % of flow and direct reading (see “Capacities”) in units of flow.
- **FLOAT:** Ball type
- **APPROXIMATE WEIGHT:** .5 lbs.
- **MOUNTING:** Vertically, in pipeline or front panel mounted. Mounting holes on back of meter.

**MATERIALS**
- **BODY:** Anodized aluminum
- **METER TUBE:** Borosilicate glass
- **FLOAT:** Stainless steel or black glass
- **NEEDLE VALVE:** 303 stainless steel spindle and seat
- **O-RINGS:** Buna N (standard) or other materials
- **OUTLET PLUG:** 303 stainless steel
- **CHECK VALVE:** Spring loaded, 303 stainless steel seat and disc, “O”-ring seal

**TABLE 1 CAPACITIES—TYPE 7510 ROTAMETERS**

<table>
<thead>
<tr>
<th>TUBE NO.</th>
<th>TUBE SIZE</th>
<th>FLOAT †</th>
<th>SCALE</th>
<th>WATER AT 70°F (gph)</th>
<th>AIR AT 10 psig and 70°F (scfh)</th>
<th>AIR AT 14.7 psig and 70°F (scfh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/16-10-P-11/2</td>
<td>BJ-2</td>
<td>0-10</td>
<td>N/A</td>
<td>.5</td>
<td>.37</td>
</tr>
<tr>
<td>2</td>
<td>5/32-08-P-11/2</td>
<td>BP-5</td>
<td>scfh</td>
<td>21†</td>
<td>.2‡</td>
<td>.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BJ-5</td>
<td>0-10</td>
<td>2.4</td>
<td>2.4</td>
<td>1.8‡</td>
</tr>
<tr>
<td>3</td>
<td>1/4-1-P-11/2</td>
<td>BP-8</td>
<td>0-10</td>
<td>4.5</td>
<td>3.4</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BJ-8</td>
<td>0-10</td>
<td>21‡</td>
<td>16‡</td>
<td>8.5</td>
</tr>
<tr>
<td>4</td>
<td>5/32-43-P-11/2</td>
<td>BP-5</td>
<td>0-10</td>
<td>1.4</td>
<td>11</td>
<td>.9</td>
</tr>
<tr>
<td></td>
<td>(Dual Taper)</td>
<td>BJ-5</td>
<td>0-10</td>
<td>4.0</td>
<td>21‡</td>
<td>9.17</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1.1-1.8</td>
<td>1-1.1</td>
<td>.2-3</td>
<td>.1-2.5</td>
</tr>
<tr>
<td>5</td>
<td>1/4-25-P-11/2</td>
<td>BP-8</td>
<td>0-10</td>
<td>4.5</td>
<td>35</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BJ-8</td>
<td>0-10</td>
<td>12</td>
<td>65</td>
<td>50</td>
</tr>
</tbody>
</table>

*BP = Black Glass; BJ = Stainless Steel  †Maximum flow range; range is 10:1. ‡Furnished with 0-10 scale.

**DIMENSIONS**
SERIES 7000 ROTAMETER

FEATURES
• Interchangeable metering tubes and floats provide several capacity ranges for each body size
• Rugged one-piece construction and clear polycarbonate tube shield
• Integral check valve to protect against backflow (all models except 7050)
• Flute-guided tube in 3” and 5” scale sizes
• Precise flow control possible with needle valve model

APPLICATIONS
Both the Types 7010 and 7030 rotameters are primarily used in purge applications such as those described on page 2. The Type 7050 rotameter is often used for low flow applications where water, air and other fluids and gases need to be accurately measured.

DESCRIPTION
The 7000 Series consists of three models: the Type 7010 (1 1/2” scale), the 7030 (3” scale) and Type 7050 (5” scale). All Series 7000 rotameters are constructed with a one-piece stainless steel body and stainless steel internal components. Type 7030 and 7050 have flute-guided tubes for improved float stability and accuracy.

 Capacities for Series 7000 rotameters range from .0048 to 28 gph for water and .058 to 120 scfh for air. For greater capacities, see Bulletin 20-7055. Variable capacities are possible using one rotameter body through an interchangeable system of metering tubes and floats. A lock clip keeps the metering tube securely in place during use, yet permits easy removal for service. A clear polycarbonate tube shield protects the metering tubes. Decal reference or etched, direct reading scales are available for all models.

Series 7000 meters can be installed directly in pipelines or can be panel-mounted. Mounting holes are provided on the rotameter body. These units are very versatile and can be modified for a variety of applications.

SPECIFICATIONS
CONNECTIONS: 1/4”, horizontal threaded
ACCURACY: Type 7050: ±4% F.S., ±2% F.S. with optional calibration
Type 7030: ±6% F.S., ±3% F.S. with optional calibration
Type 7010: ±10% F.S.
RANGE: 10 to 1
MAXIMUM OPERATING TEMPERATURE AND PRESSURE:
300 PSIG at 200°F
SCALES: Type - decal reference or etched, direct reading in units of flow
Length - Type 7010 (1 1/2”), Type 7030 (3”), Type 7050 (5”)
FLOATS: Ball type
MOUNTING: Vertically, in pipelines, or on front or back of panel.
Mounting holes provided on back of body.

MATERIALS
BODY: One-piece, welded 316 stainless steel
TUBE SHIELD: Clear, polycarbonate plastic
METER TUBE: Borosilicate glass
FLOATS: Stainless steel, black glass, red sapphire, tantalum or tungsten carbide
NEEDLE VALVE: 316 stainless steel spindle and seat
O-RINGS: Buna N (standard), Viton A† or other materials
CHECK VALVE*: 316 stainless steel seat and disc, O-ring seal
LOCK CLIP: Stainless steel
†T.M., E.I. DuPont de Nemours

TABLE 2 DIMENSIONS—SERIES 7000 SERIES

<table>
<thead>
<tr>
<th>TYPE</th>
<th>METER SCALE (INCHES)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>WT. (LBS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-7050V</td>
<td>5</td>
<td>91/8</td>
<td>8 3/8</td>
<td>51/4</td>
<td>1932</td>
<td>1 sq.</td>
<td>25/8</td>
<td>1</td>
</tr>
<tr>
<td>20-7030V</td>
<td>3</td>
<td>61/8</td>
<td>6 1/8</td>
<td>3</td>
<td>1932</td>
<td>1 sq.</td>
<td>25/8</td>
<td>1</td>
</tr>
<tr>
<td>20-7010V</td>
<td>1 1/2</td>
<td>41/4</td>
<td>4</td>
<td>11/4</td>
<td>1932</td>
<td>1 sq.</td>
<td>25/8</td>
<td>3/4</td>
</tr>
</tbody>
</table>

* Mounting holes are 7/32 inch in diameter.
**V** designates needle valve model.
NEEDLE VALVE FOR FLOW CONTROL
An integral needle valve is available with all Series 7000 models to control flow. The valve can be used at the outlet as well as the inlet by reversing the metering tube and inverting the rotameter (when this is done, the check valve is omitted).

ALARM ROTAMETERS
Series 7000 rotameters can be equipped with a high/low limit switch for alarm applications. This device will warn of abnormally high or low flows by activating a signal device or start/stop switch. For capacities and specifications, refer to Bulletin 18A-1 on alarm rotameters (do not use table 3 below).

### TABLE 3 CAPACITIES—TYPE 7030 ROTAMETERS

<table>
<thead>
<tr>
<th>TUBE NO.</th>
<th>FLOW RANGE†</th>
<th>WATER AT 70°F</th>
<th>AIR AT 14.7 psia and 70°F (cfh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8-10-G-3</td>
<td>BP-4</td>
<td>.06</td>
<td>.06</td>
</tr>
<tr>
<td>BA-4</td>
<td>.11</td>
<td>.97</td>
<td></td>
</tr>
<tr>
<td>BJ-4</td>
<td>.25</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>BD-4</td>
<td>.50</td>
<td>2.6</td>
<td></td>
</tr>
<tr>
<td>1/8-20-G-3</td>
<td>BP-4</td>
<td>.11</td>
<td>1.1</td>
</tr>
<tr>
<td>BA-4</td>
<td>.25</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>BJ-4</td>
<td>.49</td>
<td>4.9</td>
<td></td>
</tr>
<tr>
<td>BD-4</td>
<td>1.1</td>
<td>11.1</td>
<td></td>
</tr>
<tr>
<td>5/32-42-G-3 (Dual Taper)</td>
<td>BP-5</td>
<td>.018-63</td>
<td>.063-5.0</td>
</tr>
<tr>
<td>BJ-5**</td>
<td>.082-63</td>
<td>.063-5.0</td>
<td></td>
</tr>
<tr>
<td>1/4-15-G-3</td>
<td>BP-8</td>
<td>.14</td>
<td>1.4</td>
</tr>
<tr>
<td>BA-8</td>
<td>.27</td>
<td>2.7</td>
<td></td>
</tr>
<tr>
<td>BJ-8</td>
<td>.49</td>
<td>4.9</td>
<td></td>
</tr>
<tr>
<td>BD-8</td>
<td>1.0</td>
<td>10.0</td>
<td></td>
</tr>
<tr>
<td>1/4-33-G-3</td>
<td>BP-8</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>BA-8</td>
<td>1.0</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>BJ-8</td>
<td>1.0</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>BD-8</td>
<td>1.0</td>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

†Maximum Flow Rate: Range is 10:1.
**Not available with flute-guided tubes.

### TABLE 4 CAPACITIES—TYPE 7010 ROTAMETERS

<table>
<thead>
<tr>
<th>TUBE NO.</th>
<th>TUBE SIZE</th>
<th>FLOAT **</th>
<th>SCALE</th>
<th>WATER AT 70°F (gph)</th>
<th>FLOW RANGE†</th>
<th>MAX. PRESS. DROP (INCHES W.C.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5/32-08-P-1 1/2</td>
<td>BP-5</td>
<td>0-10</td>
<td>.02</td>
<td>.5</td>
<td>50</td>
</tr>
<tr>
<td>BA-5</td>
<td>.02</td>
<td>.5</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1/4-10-P-1 1/2</td>
<td>BP-8</td>
<td>0-10</td>
<td>.10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>5/32-43-P-1 1/2 (Dual Taper)</td>
<td>BP-5</td>
<td>0-10</td>
<td>.10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>BJ-5</td>
<td>.10</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1/4-25-P-1 1/2</td>
<td>BP-8</td>
<td>0-10</td>
<td>.10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>BA-8</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

†Maximum Flow rate: range is 10:1.
**Not available with flute-guided tubes.

### TABLE 5 CAPACITIES—TYPE 7050 ROTAMETERS

<table>
<thead>
<tr>
<th>TUBE NO.</th>
<th>FLOW RANGE†</th>
<th>MAX. PRESS. DROP (INCHES W.C.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/32-06-P-5</td>
<td>.05</td>
<td>5.0</td>
</tr>
<tr>
<td>BA-9</td>
<td>.05</td>
<td>5.0</td>
</tr>
<tr>
<td>3/32-07-P-5</td>
<td>.10</td>
<td>10.0</td>
</tr>
<tr>
<td>BA-10</td>
<td>.10</td>
<td>10.0</td>
</tr>
</tbody>
</table>

†Maximum Flow Rate: Range is 10:1.
FEATURES
• Simple, low cost construction
• Needle valve available for flow control at inlet or outlet
• Clean-out plugs for easy access
• Stainless steel wetted parts
• Can be equipped with differential pressure controller

DESCRIPTION
The Model 20-7210 is a simple, low cost purge rotameter with a clear acrylic body and an integral, precision-machined metering tube. The 1 1/2” scale is hot stamped directly on the face of the meter body in scfh or gph. All internal components are made of corrosion-resistant materials.

“Kleer-Vue” rotameters also can be supplied with a needle valve for flow control or with a differential pressure controller.

Flow capacities range form .09 to 24 gph for water, and 1.0 and 110 scfh for air. These instruments can be mounted vertically in pipelines, or in front or back of a panel. An optional aluminum bezel can be supplied for flush panel mounting.

APPLICATIONS
“Kleer-Vue” rotameters are most often used for purging applications where low flows of air or water are to be measured. The flow range of each tube can be changed by changing the float material. These rotameters can operate at a maximum temperature and pressure of 160°F at 100 psig.

SPECIFICATIONS
CONNECTIONS: 1/8”, NPT female
RANGE: 10 to 1
ACCURACY: ±10% F.S. with standard calibration, ±5% F.S. with optional calibration
SCALES: 1 1/2”, hot-stamped on meter body in scfh or gph
MAXIMUM OPERATING TEMPERATURE AND PRESSURE:
160°F at 100 psig
FLOATS: Ball type
APPROXIMATE WEIGHT: .75 lbs.
MOUNTING: Vertically, directly in pipeline, or in front or back of panel with special attachments. Optional mounting accessories: Aluminum bezel for flush panel mounting; locknuts and threaded adapters for front panel mounting.

MATERIALS
BODY: Clear, acrylic plastic
METER TUBE: Precision machined directly in body
FLOATS: Black glass and 316 stainless steel
NEEDLE VALVE: 316 stainless steel spindle and seat
O-RINGS: Buna N
CLEAN-OUT PLUGS: Nylon
PIPE CONNECTIONS: 316 stainless steel or brass, nickel plated
FLOAT STOPS: 302 stainless steel

TYPE 7200 “KLEER-VUE” ROTAMETER

<table>
<thead>
<tr>
<th>TABLE 6 CAPACITIES—MODEL 20-7210</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE NO.</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

*Maximum Flow Rate; Range is 10:1.
SERIES 3200 ROTAMETER/DIFFERENTIAL REGULATOR

FEATURES
• Precise automatic operation
• Wide flow range provided by one size differential regulator
• All wetted parts are made of corrosion-resistant materials

DESCRIPTION
The Series 20-3200 Purge Rotameter/Differential Regulator is used in all types of normal purging applications where simplified automatic control of purge rate of flow is required. It is well suited for cases where main line or supply pressures vary over short periods of time. The unit eliminates the need for manual adjustment of purge flow. The Model 3200 Conoflow differential regulator can be supplied with Type 7510 Rotameter (see page 3) or Series 20-7000 Rotameters (see page 4 & 5).

The differential regulator is piped upstream of the Rotameter, with a static pressure connection from the top of the regulator to the downstream side of the Rotameter, with the underside of the regulator diaphragm in direct connection with the upstream side of the Rotameter. By using a spring to impose a fixed load equal to 3 psi static pressure, the pressure under the diaphragm (upstream) is always 3 psi greater than the outlet pressure (downstream) regardless of the actual value of these pressures. Therefore, the flow will remain constant for any given setting of the Rotameter needle valve.

APPLICATIONS
Series 20-3400 Purge Rotameter/Differential Regulators can be used for air, water or gas purging systems, either for panel or off-panel mounting using the integral bracket. They are ideal for furnaces and liquid level “bubbler” applications where varying pressures are encountered in the flow line.

SPECIFICATIONS
CONNECTIONS: 1/4" NPT inlet and outlet feedback connection in 1/8" NPT
APPROXIMATE WEIGHT: 4 lbs.
PRESSURE DROP: 3 PSI static pressure
PRESSURE RATING: 150 PSI
UPSTREAM PRESSURE RATING (MAX): 150 PSI
TEMPERATURE RATING: 200°F

MATERIALS
BODY: Brass or 316 stainless steel
BONNET: Die cast aluminum
VALVE STEM SEAT & SPRING: Stainless steel
DIAPHRAGM: Nylon inserted neoprene
SIZING PURGE ROTAMETERS

FOR WATER OR AIR SERVICE
When sizing an SK purge rotameter for water or air service, simply refer to the capacity charts in this brochure corresponding to the model you have selected. Choose tube size and float according to flow range.

FOR LIQUIDS AND GASES OTHER THAN WATER AND AIR
If the liquid to be measured has a specific gravity other than 1.0 and/or a viscosity other than 1.0 cs at operating temperature and pressure; or if the gas is not air at standard temperature and pressure (70°F and 14.7 psia)... TYPE 7050 ROTAMETER - Consult Technical Supplement 18.2 to size the rotameter, or contact McCrometer for computerized sizing and calibration.

INFORMATION REQUIRED FOR SIZING
For Liquids:
1. Viscosity in centistokes
2. Specific gravity
3. Desired flow range

For Gases:
1. Operating temperature
2. Operating pressure
3. Specific gravity
4. Desired flow range

ADDITIONAL ROTAMETERS

METAL TUBE ROTAMETERS
These rotameters are used for high-pressure or hazardous liquid and gas flows where glass tubes are not desirable. Capacities range from .64 to 371 gpm and standard accuracy is ±2% F.S. (±1% optional). These rotameters can handle pressures up to 2500 psig at 400°F. (Request Bulletin 19.)

SAFEGUARD ROTAMETERS
These general purpose glass tube rotameters are used for medium to high flows of gases and liquids. Standard accuracy is ±2% F.S. (±1% optional) and capacities range from .031 to 179 gpm. Safeguard rotameters are available in a variety of constructions to meet service service requirements. (Request Bulletin 20-5000.)

TYPE 7030, 7010 AND 7510 ROTAMETERS - Contact McCrometer for sizing and calibration data.

TYPE 7200 ROTAMETERS - Generally not used for liquid or gases other than water and air.

TYPES 20-9300 INDICATING ALARM OR TRANSMITTING ROTAMETERS
Series 20-9300 meters are all-metal designs with straight “flow-thru” pattern. No angles or pockets to stagnate fluid flow. Standard construction is stainless steel with threaded or flanged connections. Transmitter provides 4 - 20 mA output signal. (Request Bulletin 20-9300-ET.)

BALL FLOW INDICATORS
For simple, inexpensive indication of flow, McCrometer offers a complete line of sight flow indicators including ball, rotary and flapper types. Ball flow indicators are available in capacity ranges from 0.5 to 190 gpm. (Request Bulletin 20-6100.)

Specifications contained herein are subject to change without notice. Since it is impossible to anticipate or control the many different conditions under which this information and our products may be used, McCrometer cannot guarantee the applicability and accuracy of the information, or the suitability of our products in any given situation.

WARNING - Glass metering tubes have been designed to operate up to the stated maximum design working pressure and temperature. However, glass is breakable and weak, mishandling or method of use beyond our control can weaken the tube resulting in breakage. Such breakage can be of an explosive nature and can result in serious personal injury. Be sure the manufacturer’s instructions are understood and eye protection is used before installing or using glass tube meters.