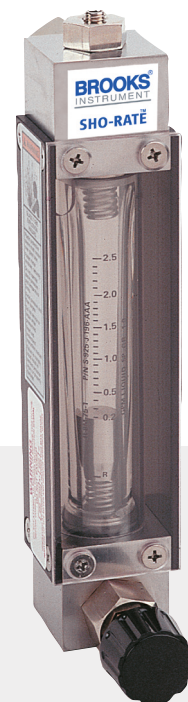


# Sho-Rate™ Series Model 1358

Glass Tube Variable Area Flowmeters (Rotameter)

The Sho-Rate™ Series of low flow indicators provide a cost-effective means of flow indication where the accuracy requirements are not severe. **Model 1358** is ideal for flow rates from 0.8 to 5.0 gpm of water. Available options include an integral needle control valve and optional configuration to connect a flow controller to the inlet or outlet of the meter.



## Features

|                                                              |
|--------------------------------------------------------------|
| 10-1 Rangeability                                            |
| Heavy Wall, Precision Bore Borosilicate Glass Measuring Tube |
| Interchangeable Tubes and Floats with Integral Float Stops   |
| Easily Panel Mounted                                         |
| Compatibility with Valve and Flow Controller                 |

## Benefits

|                                                                      |
|----------------------------------------------------------------------|
| Meets a wide range of customer specifications                        |
| Resistant to thermal shock and corrosive gases and fluids            |
| Easy in-situ maintenance. Prevents loss of float during tube removal |
| Ability to drop in to customer process                               |
| Meets a wider range of customer requirements                         |

# Product Specifications

## Performance

|                                             |                                                                                                                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring Range                             | See Capacity Table                                                                                                                                                                                                                                                 |
| Standard Accuracy                           | ±10% of F.S.                                                                                                                                                                                                                                                       |
| Repeatability                               | 0.5% F.S.                                                                                                                                                                                                                                                          |
| Rangeability                                | 10 - 1                                                                                                                                                                                                                                                             |
| Pressure/Temperature                        | 200 psig at 33°F to 250°F (1°C to 121°C)<br>Fluid temperatures below 32°F (0°C) will cause frosting of the glass <b>metering tube</b> .<br>Consult factory for applications below this temperature.<br>100 psig at 33°F to 250°F (1°C to 121°C)(CRN Certification) |
| Pressure Equipment Directive (PED) 97/23/EC | Flowmeters mentioned in this document are Sound Engineering Practice (SEP)                                                                                                                                                                                         |

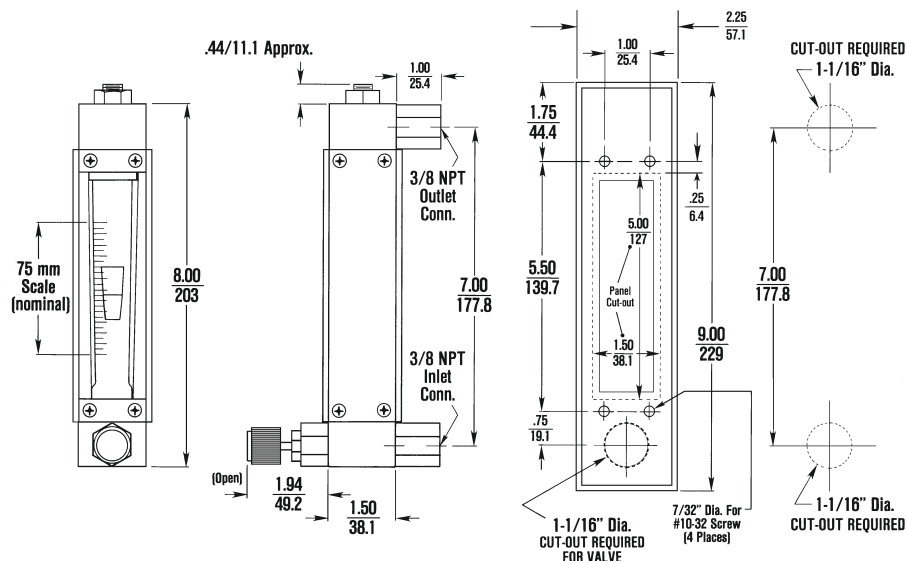
## Materials of Construction

|                      |                                                                                                                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Metering Tube</b> | <b>Borosilicate Glass</b>                                                                                                                                                                                                                                                                  |
| Tube Packing         | Standard: Neoprene™ (Brass meters); Viton-A® fluoroelastomers (316 Stainless Steel meters); Optional: EPM                                                                                                                                                                                  |
| O-rings              | Standard: Buna-N (Brass meters); Viton-A® fluoroelastomers (316 Stainless Steel meters); Optional: EPM                                                                                                                                                                                     |
| Float                | 316 Stainless Steel                                                                                                                                                                                                                                                                        |
| Float Stops          | Stainless Steel                                                                                                                                                                                                                                                                            |
| Side Plates          | Standard: Black Anodized Aluminum                                                                                                                                                                                                                                                          |
| Window               | Scratch resistant, UV stabilized polycarbonate                                                                                                                                                                                                                                             |
| Back Cover           | Milk white polycarbonate                                                                                                                                                                                                                                                                   |
| End Fittings         | Chrome Plated Brass or 316 Stainless Steel                                                                                                                                                                                                                                                 |
| Connections          | Standard: Horizontal female 3/8" NPT threaded adaptors; Optional: Refer to Model Code                                                                                                                                                                                                      |
| Scales               | Type (standard): Fused on meter tube<br><b>Length: 75mm</b> , nominal<br>Graduations: Standard: Direct read on tube in gpm water or scfm air<br>Optional: Special direct read decal on tube. Consult factory for available ranges.<br>Direct read on metal scale plate mounted beside tube |

| Capacities        |             | Pressure Drop without Valve Inches W.C. |        | Pressure Drop with Valve Inches W.C. | Float   |
|-------------------|-------------|-----------------------------------------|--------|--------------------------------------|---------|
| Maximum Flow Rate | Water (gpm) | 0.8                                     | 12.6   | 13.6                                 | 8-RV-8  |
|                   |             | 1.5                                     | 22.2   | 27.0                                 | 8-RJ-10 |
|                   |             | 2.5                                     | 61.0   | 85.2                                 | 8-RJ-23 |
|                   |             | 3.5                                     | 88.7   | 121.0                                | 8-RJ-30 |
|                   |             | 5.0                                     | 172    | 238.0                                | 8-RJ-39 |
|                   | Air (scfm)  | 3.4                                     | 14.34  | 15.5                                 | 8-RV-8  |
|                   |             | 6.0                                     | 25.34  | 30.8                                 | 8-RJ-10 |
|                   |             | 12.0                                    | 69.34  | 97.3                                 | 8-RJ-23 |
|                   |             | 15.0                                    | 101.34 | 138.3                                | 8-RJ-30 |

NOTE: All air flows are at 14.7 psia and 70°F. Reference conditions 70°F @ latm.

Model 1358



INCHES  
MILLIMETERS

| Code Description                                                             | Code Option     | Option Description                                                           |
|------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------|
| I-V. Base Model Code                                                         | 1358F           | Sho-Rate "50", Size 8                                                        |
| VI. Tube                                                                     | 1               | R-8M-75-1                                                                    |
|                                                                              | 2               | R-8M-75-1 CRN option                                                         |
|                                                                              | 9               | No Tube                                                                      |
| VII. Float (316 Stainless Steel)                                             | A               | 8-RV-8                                                                       |
|                                                                              | B               | 8-RJ-10                                                                      |
|                                                                              | C               | 8-RJ-23                                                                      |
|                                                                              | D               | 8-RJ-30                                                                      |
|                                                                              | E               | 8-RJ-39                                                                      |
|                                                                              | Y               | No Float                                                                     |
| VIII. Scale Type / Side Plate Arrangement                                    | 1               | Scale on tube                                                                |
|                                                                              | 2               | Aluminum Detachable Scale Mounted to Right Side Plate                        |
| IX. Scale Inscription                                                        | A               | No Inscription                                                               |
|                                                                              | B               | MM Scale                                                                     |
|                                                                              | D               | SCFM Air @ 70 F and 14.7 PSIA, Standard 10 % Accuracy                        |
|                                                                              | E               | GPM Liquid Specific Gravity 1.0, Viscosity 1.0 cP, Standard 10% Accuracy     |
|                                                                              | F               | Special Inscription, Standard 10% Accuracy                                   |
|                                                                              | G               | Special Inscription, Calibrated 10% Accuracy (gas)                           |
|                                                                              | H               | Special Inscription, Calibrated 10% Accuracy (liquid)                        |
| X. Tube Packing & O-ring Materials for Meter/Valve <sup>1</sup>              | A               | Neoprene Tube Packing, Buna O-ring                                           |
|                                                                              | C               | Viton Tube Packing, Viton O-ring                                             |
|                                                                              | K               | EPM Tube Packing, EPM O-ring                                                 |
|                                                                              | L               | No Packing <sup>2</sup> , Buna O-ring                                        |
|                                                                              | M               | No Packing <sup>2</sup> , Viton O-ring                                       |
|                                                                              | N               | No Packing <sup>2</sup> , EPM O-ring                                         |
| XI. Fitting & Adapter Material <sup>3</sup> / Process Connection Size & Type | 1*              | 3/8" NPT Connection, Brass Fitting & Adapter                                 |
|                                                                              | 2               | 3/8" NPT Connection, 316 Stainless Steel Fitting & Adapter                   |
|                                                                              | 3*              | Thd. 3/8" NPT with Locknut Connection, Brass Fitting & Adapter               |
|                                                                              | 4               | Thd. 3/8" NPT with Locknut Connection, 316 Stainless Steel Fitting & Adapter |
| XII. Valve Configuration                                                     | A               | No Valve (Plain End Fitting on Inlet)                                        |
|                                                                              | B               | Standard Stainless Steel Needle Valve on Inlet                               |
|                                                                              | C               | Standard Stainless Steel Needle Valve on Outlet                              |
|                                                                              | D*              | Standard Brass Needle Valve on Inlet                                         |
|                                                                              | E*              | Standard Brass Needle Valve on Outlet                                        |
|                                                                              | F <sup>4</sup>  | To mount 8810 Flow Controller                                                |
|                                                                              | G <sup>4</sup>  | To mount 8910 Flow Controller                                                |
|                                                                              | H <sup>4*</sup> | To mount 8830 Flow Controller                                                |
| XIII. Connection Orientation                                                 | 1               | Inlet Port Back, Outlet Port Back                                            |
|                                                                              | 3               | Inlet Port Back, Outlet Port Right <sup>5</sup>                              |
|                                                                              | 9               | Inlet Port Right, Outlet Port Back <sup>6</sup>                              |
| XIV. Accessories (One or Two Digital Field)                                  | A               | None                                                                         |
|                                                                              | G               | No Brooks Identification                                                     |

NOTES: <sup>1</sup>If valve is not required, select proper O-ring material for meter only.  
<sup>2</sup>If tube is not required, select proper O-ring material coded L through P.  
<sup>3</sup>If no adapter is required, select proper code for end fitting material only.  
<sup>4</sup>Flow Controller must be a second-line item on customer's order.  
\* Not available with CRN Certification  
<sup>5</sup>For 8912 Controller Only  
<sup>6</sup>For 8812/8830 Controller Only

## Sample Model Code

| I-V   | VI | VII | VIII | IX | X | XI | XII | XIII | XIV |
|-------|----|-----|------|----|---|----|-----|------|-----|
| 1358F | 1  | C   | 2    | D  | C | 2  | B   | 1    | A   |

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