

Installation & Operation Manual

Sho-Rate™ Series **Models 1250/1255** **Variable Area Flowmeters**

BROOKS®
INSTRUMENT

Beyond Measure

Essential Instructions

Read before proceeding!

Brooks Instrument designs, manufactures and tests its products to meet many national and international standards. These products must be properly installed, operated and maintained to ensure they continue to operate within their normal specifications. The following instructions must be adhered to and integrated into your safety program when installing, operating and maintaining Brooks Instrument products.

- To ensure proper performance, use qualified personnel to install, operate, update, program and maintain the product.
- Read all instructions prior to installing, operating and servicing the product. If this instruction manual is not the correct manual, please see back cover for local sales office contact information. Save this instruction manual for future reference.

▲ WARNING: Do not operate this instrument in excess of the specifications listed in the Instruction and Operation Manual.

Failure to heed this warning can result in serious personal injury and / or damage to the equipment.

- If you do not understand any of the instructions, contact your Brooks Instrument representative for clarification.
- Follow all warnings, cautions and instructions marked on and supplied with the product.

▲ WARNING: Prior to installation ensure this instrument has the required approval ratings to meet local and national codes.

Failure to heed this warning can result in serious injury and / or damage to the equipment.

- Install your equipment as specified in the installation instructions of the appropriate instruction manual and per applicable local and national codes. Connect all products to the proper electrical and pressure sources.
- Operation: (1) Slowly initiate flow into the system. Open process valves slowly to avoid low surges. (2) Check for leaks around the flow meter inlet and outlet connections. If no leaks are present, bring the system up to the operating pressure.
- Please make sure that the process line pressure is removed prior to service. When replacement parts are required, ensure that qualified people use replacement parts specified by Brooks Instrument. Unauthorized parts and procedures can affect the product's performance and place the safe operation of your process at risk. Look-alike substitutions may result in fire, electrical hazards or improper operation.
- Ensure that all equipment doors are closed and protective covers are in place to prevent electrical shock and personal injury, except when maintenance is being performed by qualified persons.

▲ WARNING: For liquid flow devices, if the inlet and outlet valves adjacent to the devices are to be closed for any reason, the devices must be completely drained. Failure to do so may result in thermal expansion of the liquid that can rupture the device and may cause personal injury.

European Pressure Equipment Directive (PED)

All pressure equipment with an internal pressure gauge greater than 0.5 bar (g) and a size larger than 25mm or 1" (inch) falls under the Pressure Equipment Directive (PED).

- The Specifications Section of this manual contains instructions related to the PED directive.
- Products described in this manual are in compliance with EN directive 2014/34/EU.
- All Brooks Instrument Flowmeters fall under fluid group 1.
- Products larger than 25mm or 1" (inch) are in compliance with EN directive 2014/34/EU.
- Products of 25mm or 1" (inch) or smaller are Sound Engineering Practice (SEP).

European Electromagnetic Compatibility (EMC)

The Brooks Instrument (electric/electronic) equipment bearing the CE mark has been successfully tested to the regulations of the Electro Magnetic Compatibility (EMC directive 2014/30/EU).

Special attention however is required when selecting the signal cable to be used with CE marked equipment.

Quality of the signal cable, cable glands and connectors:

Brooks Instrument supplies a limited selection of high quality cable(s) which meets the specifications for CE certification.

If you provide your own signal cable you should use a cable which is overall completely screened with a 100% shield.

"D" or "Circular" type connectors used should be shielded with a metal shield. If applicable, metal cable glands must be used providing cable screens clamping. The cable screen should be connected to the metal shell or gland and shielded at both ends over 360 Degrees.

The shield should be terminated to an earth ground. Card Edge Connectors are standard non-metallic. The cables used must be screened with 100% shield to comply with CE certification. The shield should be terminated to an earth ground. For additional instruction regarding Protective Earth (PE) Connections please refer to Section 2, **Electrical Interface** page 29.

For pin configuration: Please refer to the enclosed Instruction Manual.

ESD (Electrostatic Discharge)

▲ CAUTION: This instrument contains electronic components that are susceptible to damage by static electricity. Proper handling procedures must be observed during the removal, installation or other handling of internal circuit boards or devices.

Handling Procedure:

1. Power to unit must be removed.
2. Personnel must be grounded, via a wrist strap or other safe, suitable means before any printed circuit card or other internal device is installed, removed or adjusted.
3. Printed circuit boards must be transported in a conductive container. Boards must not be removed from protective enclosure until immediately before installation. Removed boards must immediately be placed in protective container for transport, storage or return to factory.

Comments

This instrument is not unique in its content of ESD (electrostatic discharge) sensitive components. Most modern electronic designs contain components that utilize metal oxide technology (NMOS, SMOS, etc.) Experience has proven that even small amounts of static electricity can damage or destroy these devices. Damaged components, even though they appear to function properly, exhibit early failure.

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Description

The Sho-Rate Flowmeters are variable area, glass tube, flow rate indicating meters. The basic elements are a tapered glass metering tube and a metering float. Features include quick and simple removal or installation of the tube and float while the meter remains in the process piping.

Specifications

(Reference Tables 1-1 through 1-5)

⚠ WARNING

Do not operate this instrument in excess of the specifications listed below. Failure to heed this warning can result in serious personal injury and/or damage to the equipment.

⚠ WARNING

Glass metering tubes are designed for operation up to the maximum operating pressures and temperatures as specified herein. Due to the inherent brittle characteristics of glass and conditions beyond our control, tube breakage could result even within specified operating conditions. Do not use glass tube meters with fluids that are toxic, or chemically react with glass such as water above 140°F (60°C), steam, alkalis, fluorine, hydrofluoric acid, or molten metal. Failure to heed this warning can result in serious personal injury and/or damage to the equipment.

⚠ CAUTION

It is the user's responsibility to select and approve all materials of construction. Careful attention to metallurgy, engineered materials and elastomeric materials is critical to safe operation.

Table 1-1 Specifications for Sho-Rate Models 1250 and 1255

	1250	1255
Performance		
Accuracy	±5% F.S. at reference conditions ¹ (for listed gases)	±3% F.S. at reference conditions ¹ (for listed gases)
Repeatability	0.25% F.S.	
Pressure / Temperature	200 psig (33°F - 250°F) / 13.8 bar (1°C - 121°C)	
Materials of Construction	Borosilicate Glass, Aluminum, 316 Stainless Steel, Clear Polycarbonate, Teflon®	
End Block Options	Stainless Steel and Aluminum	
Packing Material	Viton® fluoroelastomers, Buna	
Float Materials	Glass, Sapphire, Stainless Steel, Carboloy®, Tantalum	
Connection Materials	Stainless Steel and Aluminum	
Connection Options	1/8" NPT (w/locknuts) - Aluminum and Stainless Steel 1/4" NPT (w/locknuts) - Stainless Steel only	
Valve Options	Cartridge Valve	
Valve Materials	Stainless Steel and Brass	

¹ Reference conditions: 70°F (21.1°C) / 14.7 psia (1 BarA)

Table 1-2 Direct Reading Scales - 1250 Series

Capacity Table: Model 1250

Model 1250 - Air						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D6011	G	1/8"	---	---	2 - 50	---
D6023	ST	1/8"	---	---	10 - 300	---
D6032	S	1/8"	---	---	25 - 550	0.1 - 1.2
D6042	S	1/8"	---	0.1 - 1	120 - 1,200	---
D6051	G	3/16"	---	0.1 - 2.5	---	0.25 - 5.5
D6053	ST	3/16"	---	0.2 - 5	---	---
D6073	ST	1/4"	---	0.2 - 11.4	---	2.5 - 25
D6092	S	1/4"	---	1 - 20	---	---
D6093	ST	1/4"	---	1 - 30	---	4 - 60
D6104	C	1/4"	---	2 - 60	---	---
D6013	ST	1/8"	---	---	0 - 150	---
D6021	G	1/8"	---	---	5 - 100	---
D6083	ST	1/4"	---	---	---	4 - 40
D6052	S	3/16"	---	---	0 - 5000	---

Model 1250 - Nitrogen						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D6021	G	1/8"	4 - 100	---	---	---
D6032	S	1/8"	20 - 560	---	---	0.1 - 1.2
D6051	G	3/16"	---	---	---	0.5 - 5
D6053	ST	3/16"	---	---	---	0.4 - 10
D6063	ST	3/16"	---	---	---	0.5 - 16
D6081	G	1/4"	---	---	---	2 - 20
D6104	C	1/4"	---	---	---	13 - 130
D6013	ST	1/8"	---	---	15 - 150	---
D6053	ST	3/16"	---	---	500 - 5,000	---
D6081	G	1/4"	---	1 - 10	---	---

Model 1250 - Water						
Tube No.	Float	Float Diameter	ml/mim	CCM	GPM	GPH
D6053	ST	3/16"	4 - 140	4 - 140	---	---
D6073	ST	1/4"	---	---	---	0.2 - 5
D6093	ST	1/4"	---	---	---	0.5 - 14
D6101	G	1/4"	---	25 - 575	---	---
D6105	T	1/4"	---	50 - 2000	---	---
D6105	T	1/4"	---	---	.02 - 0.5	---

Model 1250 - Oxygen						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D6105	S	3/16"	---	0.3 - 3	---	---

Model 1250 - Hydrogen						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D6011	G	1/8"	---	---	5 - 115	---
D6052	S	3/16"	---	1 - 10	---	---

Model 1250 - Argon						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D6051	G	3/16"	---	0 - 2	---	---

Model 1250 - Carbon Dioxide						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D6042	S	1/8"	---	---	100 - 1,000	---

Float Material Key
 (G) Glass
 (S) Sapphire
 (ST) Stainless Steel
 (C) Carboloy
 (T) Tantalum

Table 1-3 Direct Reading Scales - 1255 Series

Capacity Table: Model 1255

Model 1255 - Air						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D1022	S	1/8"	---	---	4 - 160	---
D1032	ST	1/8"	---	---	---	.05 - 1.15
D1033	ST	1/8"	---	---	30 - 850	---
D1043	ST	1/8"	---	0.06 - 1.7	---	---
D1052	S	3/16"	---	0.05 - 3	---	0.1 - 6
D1082	S	1/4"	---	1 - 30	---	---
D1084	C	1/4"	---	1 - 50	---	---
D1021	G	1/8"	2 - 100	---	2 - 100	---
D1032	S	1/8"	---	---	20 - 550	---
D1053	ST	3/16"	---	---	100 - 4,500	---
D1063	ST	3/16"	---	0.1 - 6.6	---	---
D1085	T	1/4"	---	---	2,000 - 66,000	---

Model 1255 - Nitrogen						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D1021	G	1/8"	---	---	2 - 100	---
D1041	G	1/8"	20 - 900	---	---	---
D1071	G	1/4"	---	0.1 - 9	---	0.5 - 20
D1081	G	1/4"	---	---	---	---

Model 1255 - Water						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	GPM
D1053	ST	3/16"	---	---	2 - 130	---
D1083	ST	1/4"	---	0.1 - 1.3	---	---

Model 1255 - Oxygen						
Tube No.	Float	Float Diameter	ml/mim	LPM	CCM	SCFH
D1054	C	3/16"	---	0.2 - 5	---	---
D1072	S	1/4"	---	---	---	2 - 24

Float Material Key
 (G) Glass
 (S) Sapphire
 (ST) Stainless Steel
 (C) Carboloy
 (T) Tantalum

Millimeter Reference Scales

To ensure accurate flowrate readings on all flowmeters with millimeter reference scales, the following should be verified: the tube part number and revision level printed on the top of the tube (for example, 1G04 R4) should correspond with the tube number and revision level on the Flow Curve Data Sheet. The gas or liquid flowing through the meter and the float material should also match the specification on the Flow Curve Data Sheet included in the box with your meter.

Table 1-4 Direct Reading mm Scales - 1250 Series

Capacity Table: Model 1250

Millimeter				
Tube No.	Float	Float Diameter	Air (CCM)	Water (CCM)
R6011	G	1/8"	50	---
R6012	S	1/8"	75	---
R6013	ST	1/8"	153	---
R6014	C	1/8"	278	---
R6021	G	1/8"	103	---
R6022	S	1/8"	160	---
R6023	ST	1/8"	298	---
R6024	C	1/8"	498	---
R6031	G	1/8"	400	---
R6032	S	1/8"	550	---
R6033	ST	1/8"	855	21.4
R6034	C	1/8"	1275	35.4
R6041	G	1/8"	900	18.2
R6042	S	1/8"	1200	29.6
R6043	ST	1/8"	1800	50.1
R6044	C	1/8"	2620	76.1
R6051	G	3/16"	2580	55
R6052	S	3/16"	3350	85
R6053	ST	3/16"	5030	140
R6054	C	3/16"	7270	215
R6061	G	3/16"	3840	90
R6062	S	3/16"	5080	130
R6063	ST	3/16"	7510	220
R6064	C	3/16"	10700	325
R6071	G	1/4"	6000	130
R6072	S	1/4"	7790	200
R6073	ST	1/4"	11450	335
R6081	G	1/4"	10100	235
R6082	S	1/4"	12980	350
R6083	ST	1/4"	18960	560
R6091	G	1/4"	15750	375
R6092	S	1/4"	20170	545
R6093	ST	1/4"	29400	880
R6101	G	1/4"	23640	570
R6102	S	1/4"	30090	825
R6103	ST	1/4"	43340	1330
R6105	T	1/4"	65850	2055

Float Material Key
 (G) Glass
 (S) Sapphire
 (ST) Stainless Steel
 (C) Carboloy
 (T) Tantalum

Table 1-5 Direct Reading mm Scales - 1255 Series

Capacity Table: Model 1255

Millimeter				
Tube No.	Float	Float Diameter	Air (CCM)	Water (CCM)
R1011	G	1/8"	50	---
R1012	S	1/8"	80	---
R1013	ST	1/8"	152	---
R1014	C	1/8"	275	---
R1021	G	1/8"	103	---
R1022	S	1/8"	160	---
R1023	ST	1/8"	293	---
R1024	C	1/8"	497	---
R1031	G	1/8"	400	---
R1032	S	1/8"	555	---
R1033	ST	1/8"	870	22.2
R1034	C	1/8"	1300	36.2
R1041	G	1/8"	855	18
R1042	S	1/8"	1135	27.6
R1043	ST	1/8"	1710	47.5
R1044	C	1/8"	2465	73.2
R1051	G	3/16"	2290	50
R1052	S	3/16"	3980	75
R1053	ST	3/16"	4480	125
R1054	C	3/16"	6475	190
R1061	G	3/16"	3425	75
R1062	S	3/16"	4465	115
R1063	ST	3/16"	6600	190
R1064	C	3/16"	9470	285
R1071	G	1/4"	9180	215
R1072	S	1/4"	11990	315
R1073	ST	1/4"	17810	515
R1081	G	1/4"	23740	565
R1082	S	1/4"	30270	830
R1083	ST	1/4"	44050	1335
R6085	T	1/4"	66370	2080

General

Standard glass tube flowmeters are available in various ranges and configurations. The meters have 65 millimeter and 150 millimeter reference scales, and are supplied with flow curves for air and water. At your request, flow curves for other gases and liquids can be supplied, and direct read scales are available on a special order basis.

Receipt of Equipment

When the equipment is received, it should be checked for damage incurred during shipment. Remove the envelope containing the packing list. Carefully remove the instrument from the packing case. Make sure spare parts are not discarded with the packing materials. Inspect for damaged or missing parts.

If there is damage, the local carrier should be notified at once regarding his liability. A Return Material Authorization (RMA) request should be submitted to the nearest Brooks Instrument location listed on our website: <https://support.brooksinstrument.com/s>

Unpacking

Precautions have been taken to prevent any damage from occurring during shipment. However, if the meter is received damaged, report it to the carrier immediately. Verify that you have the model and flow range that you require.

Return Shipment

Prior to returning any instrument to the factory for any reason, visit our website for instructions on how to obtain a Return Materials Authorization Number (RMA #) and complete a Decontamination Statement to accompany it: [Brooksinstrument.com/Service](https://www.brooksinstrument.com/Service). All instruments returned to Brooks also require a Material Safety Data Sheet (MSDS) for the fluid(s) used in the instrument. Failure to provide this information will delay processing of the instrument.

Instrument must have been purged in accordance with the following:

 WARNING
Before returning the device, purge thoroughly with a dry inert gas such as Nitrogen before disconnecting process connections. Failure to correctly purge the instrument could result in fire, explosion or death. Corrosion or contamination may occur upon exposure to air.

Recommended Storage Practice

If intermediate or long term storage is required for equipment, as supplied by Brooks Instrument, it is recommended that said equipment be stored in accordance with the following:

- Within the original shipping container.
- Stored in a sheltered area, preferably a warm, dry heated warehouse.
- Ambient temperature: 70°F (21.0°C) nominal, 110°F (43°C) maximum, 45°F (7.1°C) minimum.
- Relative humidity 45% nominal, 60% maximum, 25% minimum.

Upon removal from storage, a visual inspection should be conducted to verify the condition of equipment is "as received". If the equipment has been in storage for an excess of two (2) years or in conditions in excess of those recommended, all pressure boundary seals should be replaced and the device subject to a hydrostatic/pneumatic pressure test to 150% of rated pressure.

Achieving Accurate Flowrates

To obtain an accurate flowrate, the float must be read from the center of the ball. Additionally, the flowmeter should be installed in a manner, which minimizes both external vibrations and internal flow variations. Special care should be taken so that the connections to the meter's inlet and outlet fittings do not overly restrict the liquid or gas flow being metered. This could result in a reduced flow volume, preventing the meter from reaching its maximum flowrate. Furthermore, internal pressures could be affected, which can cause inaccurate flow readings. Prior to use, any air/gas trapped in the meter should be slowly purged and the meter should be checked for leaks.

Installation

The flowmeter is capable of being panel mounted or mounted on a leveling tripod base. In order to mount the meter on a panel, two clearance holes must be drilled. (Refer to Figure 1 for the correct locations of the 19/32" diameter clearance holes.) The meter is secured to the panel using the pal nuts, which are supplied with the meter. The meter can also be mounted on an optional leveling tripod base for freestanding use. The meter is supplied with 1/8-27 FNPT non-rotating fittings. When installing the fittings the meter, place the appropriate size wrench on the hex to prevent the inlet and outlet fittings from rotating. (Use pipe thread sealant or Teflon® tape to achieve a positive seal.) When installing the 1/8-27 MNPT fittings into the meter, torque to 60 in-lbs. maximum. Failure to hold the inlet/outlet fittings or over-torquing the fittings could cause serious damage to the fittings or the meter backplate.

WARNING

If the inlet and outlet valves adjacent to the flowmeter are to be closed for any reason, the flowmeter must be completely drained. Failure to do so may result in thermal expansion of the liquid which can cause rupture of the meter and possible personal injury.

CAUTION

Care must be taken in the system piping to this instrument to prevent sudden excessive pressure or flow surges. Protective devices should be installed upstream from this instrument, such as flow controllers, pressure regulators, pressure snubbers and rupture discs.

CAUTION

Any sudden change in system pressure may cause mechanical damage to elastomer materials. Damage can occur when there is a rapid expansion of fluid that has permeated elastomer materials. The user must take the necessary precautions to avoid such conditions.

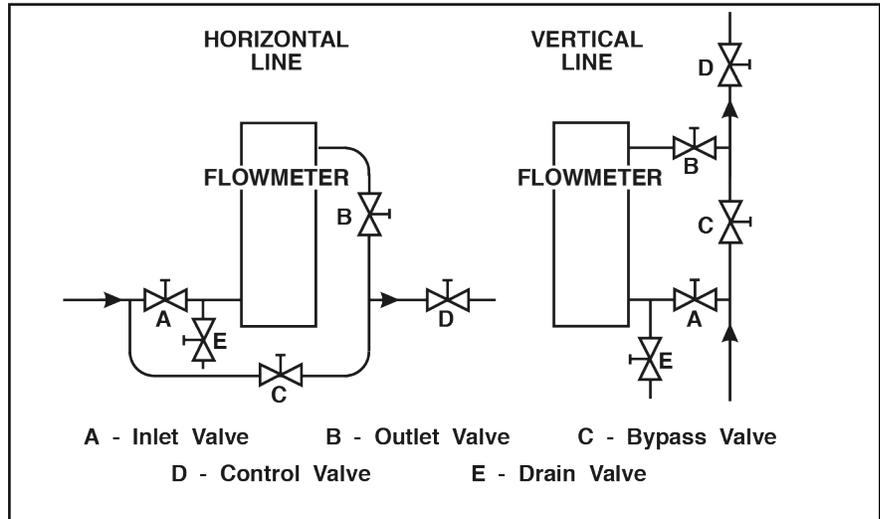


Figure 2-1 Typical Flowmeter Installation

It is recommended that a final leak test of the system plumbing and meter be performed before subjecting it to process fluid.

(See “4-2 Reassembly Procedure” on p. 4-2, step 6)

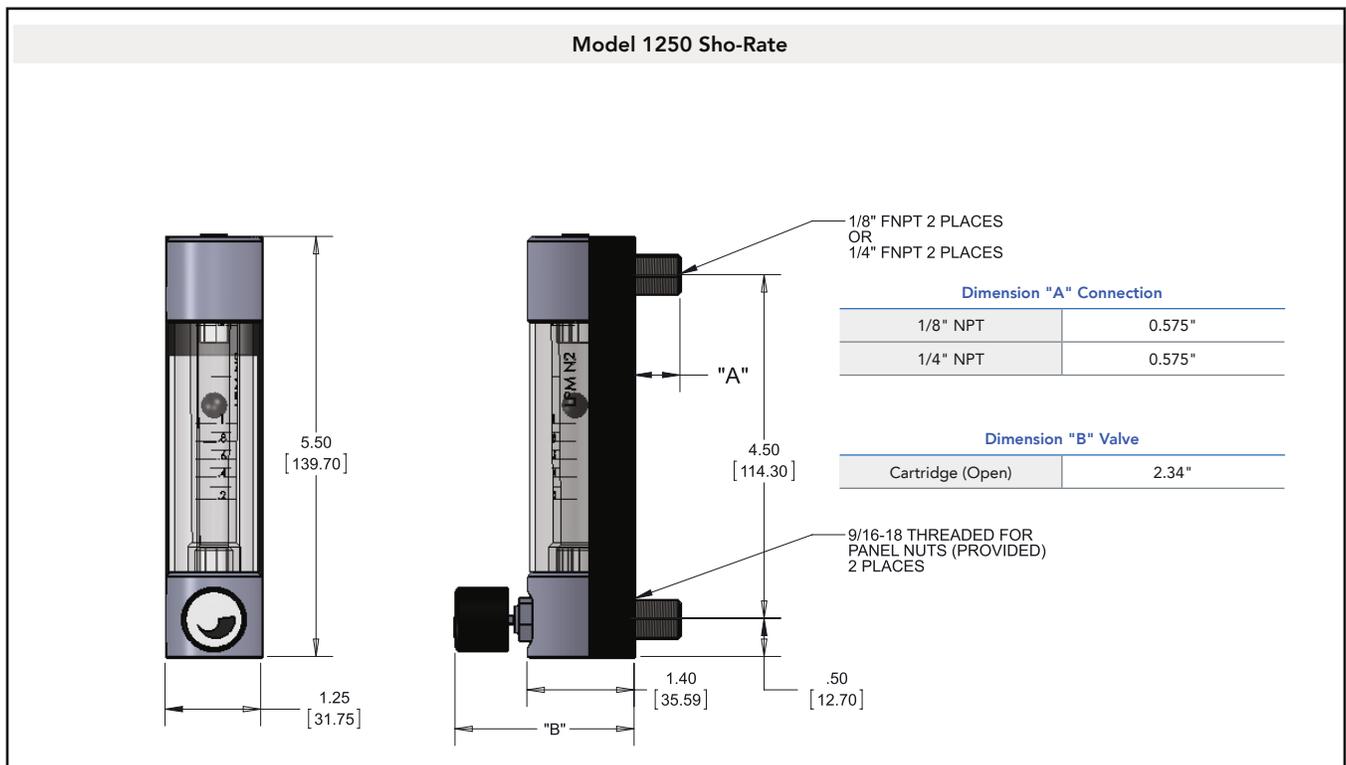


Figure 2-2 Dimensions - Sho-Rate 1250

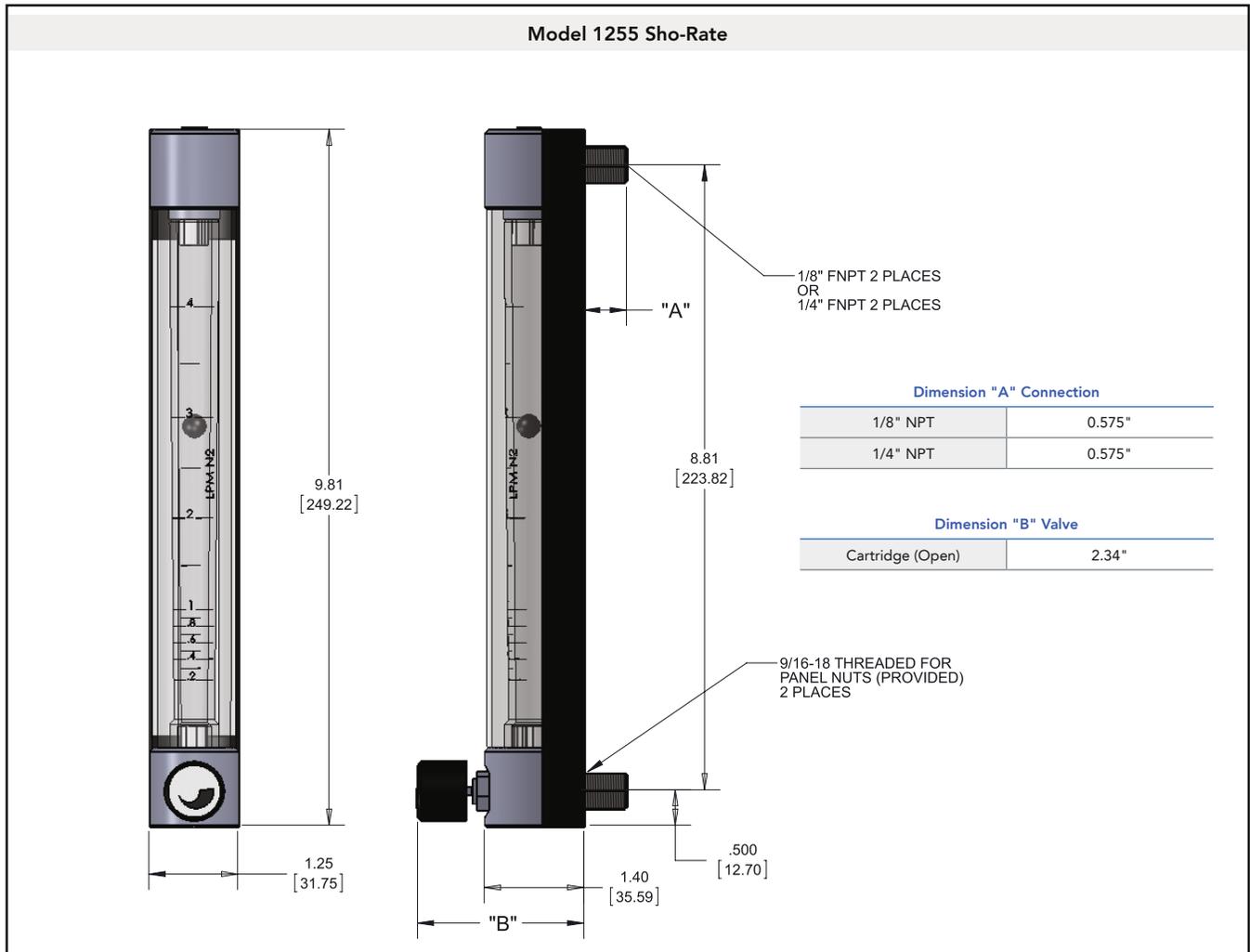


Figure 2-3 Dimensions - Sho-Rate 1255

After the flowmeter has been installed in the flow system, it is ready for operation. An optional built-in needle control valve may be provided to control the flow through the flowmeter. These control valves are designed for fine control. Excessive tightening may damage the valve seat and limit its effectiveness as a control valve. If tight shut-off is required, it is recommended that a separate shut-off valve should be installed in the line immediately before the flowmeter.

Flow indication is measured using the center of the spherical float as the reference point.

Cleaning Procedure

	<p style="text-align: center;">⚠ WARNING</p> <p style="text-align: center;">METER/CONTROLLER SEAL COMPATIBILITY</p>
<p>Products in this manual may contain metal or elastomeric seals, gaskets, O-rings or valve seats. It is the "user's" responsibility to select materials that are corrosion resistant and compatible with their process and process conditions. Using materials that are not compatible with the process or process conditions could result in the Meter or Controller leaking process fluid outside the pressure boundary of the device, resulting in personnel injury or death.</p> <p>It is recommended that the user check the Meter or Controller on a regular schedule to ensure that it is leak free as both metal and elastomeric seals, gaskets, O-rings and valve seats may change with age, exposure to process fluid, temperature, and/or pressure.</p>	

Occasional cleaning may be required if dirt appears in the flow tube or if float movement becomes restricted. The tube assembly can be removed from the meter frame for cleaning or replacement of parts without removing the meter from the process line. The tube and float should be cleaned with a mild liquid detergent and a soft brush or swab. All pieces should be rinsed/flushed with clean water, and dried thoroughly with clean dry air or nitrogen.

Disassembly Procedure

If the meter is to be disassembled for any reason; be sure to first bleed off any pressure in the meter. With a 5/32" Allen wrench, turn the jackscrew counterclockwise until it reaches a stop. Gently remove the tube assembly from the meter frame. Remove the lens caps and shield. Remove the top float stop and the float from the top of the tube. Next, remove the bottom float stop from the bottom of the tube. To remove a control valve, turn counter-clockwise with a 1/2" wrench.

Reassembly Procedure

Check to make sure that all parts are clean and dry. Install the bottom float stop into the bottom of the flow tube. Install the ball float and the top float stop from the top of the tube. Install the bottom lens caps on the tube. Insert the tube in the lens shield and install the top lens cap. Check the top and bottom gaskets and replace, if necessary. Carefully slide the tube assembly back into the meter, making sure that it is properly aligned with the scale facing forward. Tighten the jackscrew by turning clockwise until the gaskets make contact with the tube. Carefully torque to 1-1³/₄ in-lbs. to achieve a positive seal. Do not over-tighten. To replace a control valve, turn clockwise with a 1/2" open end wrench. Close the valve and slowly pressurize the meter. Check for leaks before resuming operation.

<p style="text-align: center;">⚠ CAUTION</p> <p>This flowmeter is designed for use with non-hazardous fluids at pressures up to 200 psi (13.8 bar) and temperatures up to 200°F (93°C). Do not use hazardous fluids and do not exceed temperature or pressure limits. Use with hazardous fluids or exceeded the pressure and temperature limits may cause failure which could result in injury.</p>

General

When ordering parts please specify:

Brooks Serial Number

Model Number Part Number

Description and Quantity

(Refer to Figure 5-1 and Table 5-1)

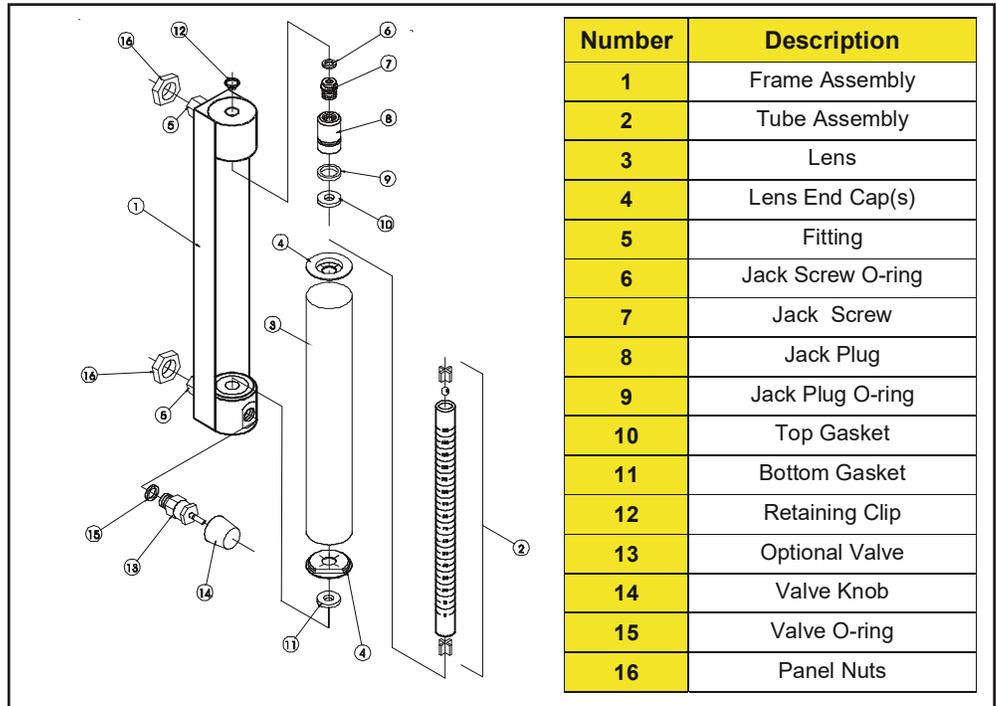


Figure 4-1 Parts List for Brooks 1250-1255 Series Flowmeters

LIMITED WARRANTY

Visit www.BrooksInstrument.com for the terms and conditions of our limited warranty.

BROOKS SERVICE AND SUPPORT

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit www.BrooksInstrument.com to locate the service location nearest to you.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required.

For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

SEMINARS AND TRAINING

Brooks Instrument can provide seminars and dedicated training to engineers, end users and maintenance persons.

Please contact your nearest sales representative for more details.

Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

TRADEMARKS

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