

Process-proven technology proudly manufactured in the USA

Sho-Rate™ Series Glass Tube Flowmeters	GT1600 Series Glass Tube Flowmeters	MT3750 Series Metal Tube Flowmeters	MT3809 Series Metal Tube Flowmeters
BROOKS TO OUT I			BROOKS 3809 Series
The industry standard glass tube VA flowmeter for decades. Multiple material options available for a wide variety of applications.	Simple, rugged design for long-lasting performance with low and high-flow gas and liquid applications where process viewing is important.	Reliable, durable, low flow measurement for long-lasting performance in harsh environments.	Widest temperature, pressure, and flow ranges for measuring fluids in hazardous, remote areas.
 Rugged, single piece frame construction Easy-change design allows quick interchangeability of tube assemblies 	Configurable to retrofit GT10XX, GT13XX and Full-View Series Process connections can be rotated 360°, 180° viewing window, panel mount options Optional integral inlet or outlet valve saves space, time & cost, eliminating potential leak points	Optional integral inlet or outlet valve saves space, time & cost, eliminating potential leak points Optional alarms, transmitters and limit switch controllers provide added levels of measurement and control	Alarm functions meet SIL2 requirements Multiple corrosion-resistant wetted materials and indicator housings available 4–20 mA output with HART Integrated FOUNDATION Fieldbus Optional local operator interface with LCD screen FOUNDATION
BI	BI	BIZ O	BIZE

Custom Engineered Solutions

When your application requires specifications beyond our standard offerings, our custom engineered solutions program provides the flexibility to design a flowmeter for your unique process conditions.

- **Design Flexibility:** Configure flowmeter materials, connections, and ranges to match demanding process conditions.
- **Engineered Precision:** Eliminate unnecessary modifications or add-ons with a fit-for-purpose flowmeter.
- Specialized Expertise: Leverage our engineering team's experience to develop reliable, application-specific measurement solutions.



Accessories & Replacement Parts



AlarmsProvides an added level of measurement and control where process conditions are critical



Mechanical Pressure Regulators Compact, high-precision supply pressure regulators suitable for line or panel mounting



NRS™ Needle Control Valves
Designed for extremely low flow gas and liquid applications



Tube and Float Assemblies
Quick replacements for glass tube meters reduce
process downtime



Flow Controllers

Maintains a constant differential pressure to ensure constant flow



Cartridge Valves
Easily replace integral valves for Sho-Rate and
MT3750 meters

Engineering Documentation Support and Regulatory Requirements

Process-proven technology paired with years of dedicated expertise in supporting customer documentation and global regulatory needs.

- ► ITP (Inspection Test Plan)
- General Arrangement Drawings
- Sizing Calculation and Project Data Sheets
- Welding, NDE (Non-Destructive Exam), and Functional Test Procedures
- Support with many more certificates, technical, and quality documents

^{*}Available for all products.

Glass & Metal Tube Flowmeters









*Standard Option A	vailable		Sho-Rate [™] 1250, 1350	GT1600	MT3750	MT3809		
Full Scale Flow Air Values based on reference conditions of 70°F 1 atm at STP	l/h	1,200,000 73,000 22,000 3,400 46 16 6.7					45,000 2,500 810 120 1.62 0.57 0.24	CFH
Full Scale Flow H ₂ O	l/h	100,000 4,900 1,000 100 0.96 0.11 0.035					27,000 1,300 280 27 0.25 0.03	GPH
Operating Pressure	Bar	430.9 275.8 34.5 13.8					6,250 4,000 500 200 0	Psi
Operating Temperature	°C	420					788 400 250 33 -58 -325	°F
Accuracy	6 VDI/ 4 VDI/ 2.5 VD	0% 5% 33% 22% 11% /VDE FS /VDE FS I/VDE FS						
Repeatability	0.5	% FS 5% FS 5% FS						
Connection Types (Select Sizes)	Flange NF NP RI Integra V	enge P - Elbow PT (f) PT (m) C (f) Pal Thread PCR Pression Ose						

Rugged, Economical, Easy to Use









*Standard Opti	on Available		Sho-Rate [™] 1250, 1350	GT1600	MT3750	MT3809
		Stainless Steel	316	316/316L	316L	316/316L
		Brass	<u> </u>	0.070.02	0.02	0.070.02
		Aluminum				
	Connection Materials /	Monel® K500				
	End Blocks	Inconel 625				
		Titanium Gr. II				
		Hastelloy® C276				
		Borosillicate Glass				
		Stainless Steel			316L	316/316L
		Monel® K500			0102	010/0102
		Inconel 625				
	Tube	Hastelloy® C276				
		Titanium Gr. II				
		Tefzel® Lined				
		Stainless Steel				
		Glass				
		Stainless Steel	316	316/316L	316L	316L
		Sapphire				
		Carboloy®				
Wetted Materials		Tantalum				
Wetted Materials	Float	Titanium Gr. II				
		Monel® K500				
		Inconel 625				
		Hastelloy® C276				
		PVDF				
		Stainless Steel	316		316L	316L
		Teflon®				
	Float Stops	Monel® K500				
		Inconel 625				
		Hastelloy® C276				
		Titanium Gr. II				
		PVDF				
		Buna				
	Elastomers	Viton®		O-Rings	O-Rings	O-Rings
		EPM/EPR/EDPM				
		Kalrez®				O-Rings
		None				
		Neoprene				
		Teflon®			O-Rings	O-Rings
	Inductive Se	nsor(s) / Switch(es)				
	Inductive Sensor(s) / Switch(es) with					
Electronics	Relay Options Reed Switch(es)					
& Alarms	MAT Transmitter					
	HART Transmitter					
	Foundation Fieldbus					
	International Agency Approvals					
	SIL2 for Alarm Options					
Certificates	Calibration Certificates					
& Approvals	Material Certificates					
	Testing Certificates					
	Cleaning Certificates					
Valve Available						
Flow Controller Available						
1 10W CONTROLLE Available			1			

Service and Support



Focused Expertise

As one of the pioneering manufacturers in variable area (VA) flowmeter technology, Brooks Instrument has created a diverse and proven portfolio of gas flowmeters, installed and in use across virtually every industry. Brooks Instrument has more than 70 years of global flow experience in over 80 countries, with successful applications ranging from nuclear and biotechnology to power and petrochemical.

Our global network of factory trained, certified flow specialists can help you select and configure devices that raise the performance and results of your processes to new levels.

Trust the expertise of the Brooks Instrument team and see why Brooks Instrument leads the world in variable area flowmeters.

Ready to Learn More?Scan the code or visit <u>BrooksInstrument.com</u>

Find a Sales Representative



All specifications are subject to change without notice. Brooks is a trademark of Brooks Instrument, LLC. All other trademarks are the property of their respective owners.



