

Fixed orifice Flow meter / switches for gases and liquids

TM-OR 2020

Our fixed-orifice flowmeters are designed for low flow applications, from 0-2 to 0-40 GPH. Like our variable-area flowmeters they are built from solids blocks of metal making them a favorite for high line pressure applications, to 3000 psi. You will find many in hydraulic and pneumatic systems.

Though rugged, they maintain the sensitivity required for low flow measurements. We use a fixed Delrin orifice centered on a spring-loaded Buna-N diaphragm-magnet sensor, which provides sensitive responses to changes in flow. This diaphragm sensor is magnetically coupled to a pointer, which relays the flow rate onto an easy-to-read square-root calibrated dial.

These in-line flowmeters often replace rotameters, which have small scales that can be difficult to read, especially with dirty or opaque fluids. Our 2.5 to 4.5 inch dials with large, bold markings can be read from a distance. The spring-loaded



sensor allows them to be oriented either horizontally or vertically. Many others must be mounted vertically only, limiting space and design flexibility.

Specifications

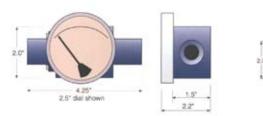
see table Ranges liquids: ± 2%, Accuracy:

gases: ± 5%

Repeatability: ± 1% Pressure drop: 0,2 bar Scale: square root Process connection: 1/4" NPT

Model	Flow range	Maximum line pressure/ max. Temp.	Electrical
TM-OR-2021FG/FGS/FS FG = gauge FGS = gauge / switch FS = switch	liquids 0-8 bis 0-150 l/h gases 60-140 l/min	200 bar / 93°C	1 o. 2 switches
TM-OR-2023FGS/FS FGS = gauge / switch FS = switch	liquids 0-8 bis 0-150 l/h gases 60-140 l/min	100 bar / 93°C	1 o. 2 switches Relay

Dimensions



2021FG 2021FS

All specifications are subject to change without notice





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Ordering

TM-OR-2021FGS 2.5B A 0-2 GPH-W, 2021FGS 2.5B 0-2 GPH W Model Flow Body Dial Case Range Calibration Electri cal Options (more on pg . 19) A = SPSTN.Q. 5 = plastic lens 1A = aluminum 2.5B = 2.5 basicLiquid W = std.calibr -water 2021FG B = SPST, N.C. 2021FGS 1C = 316 SS 3.5B = 3.5 basic 0-2, 0-4, 0-5, 0-8, O = std. calibr. -oil 6 = liquid fill (glycerine) 2021FS C = SPDT0-10, 0-15, 0-20, A = std.calibr.-air 4.5B = 4.5 basic8 = reverse flow A-A = 2 ea. -A 0-25, 0-40 GPH S= special calibr.* 9 = vertical flow (specify direction up or Change B to F B-B = 2 ea. -B Air & Gas *Liquids must specify above for flanged C-C = 2 ea. -C 1.5-5 SCFM specific gravity and downward) dial case R2 = relay viscosity Special Seals *Gas must specify (Buna-N standard): T = Teflon gas, pressure and V = Viton temperature

Flow Curves

