

FGR200-Positive Displacement Flow Meter(Gear Flow Meter)

- ▶ High pressure rating
- ▶ Applicable to various viscous media
- ▶ High repeatability and accuracy
- ▶ Pulse / analog output selectable
- ▶ Wide measuring range

FGR200 positive displacement flow meter measures the flow on the volumetric principle, in which gearwheels are moved proportional to the flow rate. The movement of the gearwheels is measured through the enclosing housing wall by a sensor.

Immune to medium viscosity. Higher trundown ratio, accuracy, resolution and responsibility, as well as for measuring the very-low flow.

Assembled with journal bearings FGR200 can measure low or non-lubricating fluids, such as paints, glues, resin, sealant etc.

The FGR200 series of positive displacement flow meters have 9 measuring ranges from 0.006 ... 1L/min through 4.0 ... 450L/min. Optional pickoffs for pulse output, current analog output and voltage analog output.



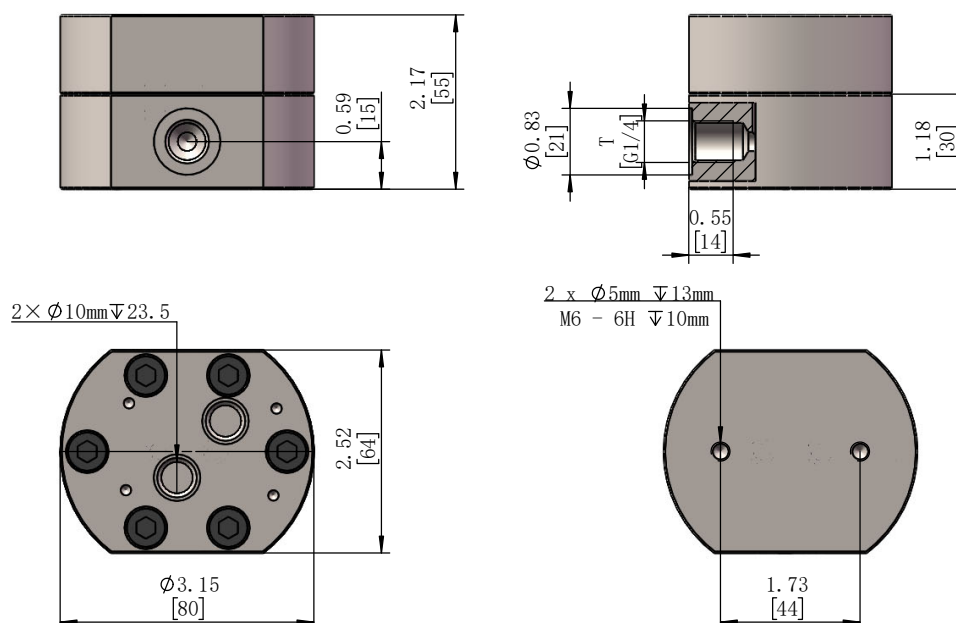
Applications

- ▶ Printing ink measurement
- ▶ Resin/glue/silica gel measurement
- ▶ Hydraulic oil/lubricating oil/grease measurement
- ▶ Cooling liquid measurement
- ▶ Solvent measurement
- ▶ Fuel oil measurement
- ▶ Polyurethane measurement
- ▶ Braking fluid measurement
- ▶ Cylinder position measurement

Applicable Medium	Liquids
Accuracy (at 30cst)	±0.5% of reading (turndown ratio of 1:10); ±3% of reading (measuring range)
Repeatability	±0.1% of reading
Pressure Rating	420bar (stainless steel); 100bar (aluminum)
Ambient Temperature	-40...85°C
Medium Temperature	-40...100°C (Max. 200C for high tem perature type)
Materials	
Body	316 stainless steel or aluminum
Gear	stainless steel
Sealing	FPM (NBR, PTFE, FKM,E PDM, FEP, FFKM optional)
Bearing	Stainless steel ball bearing

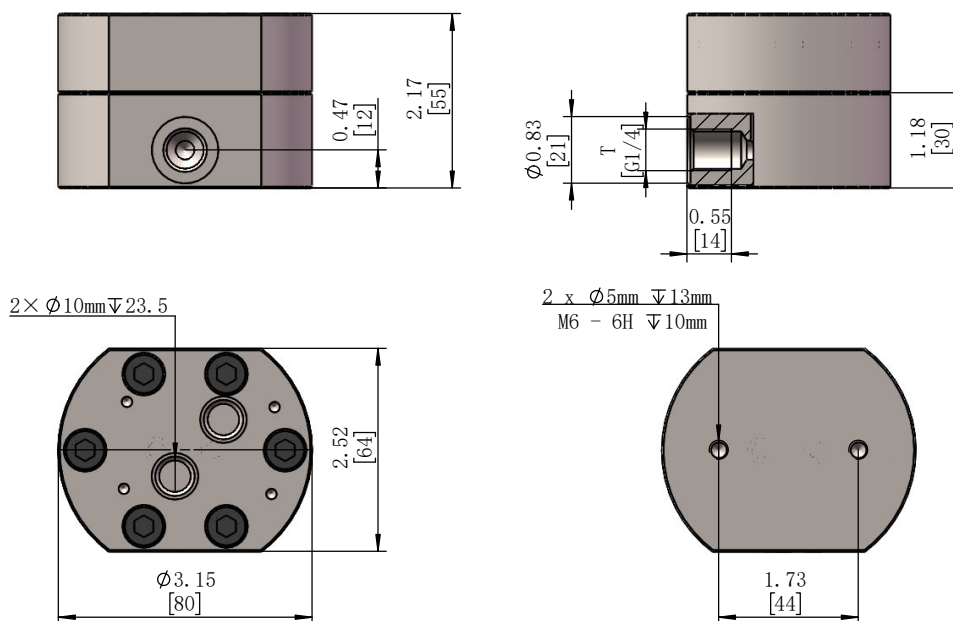
Dimensions in inches[mm]

FG0002/FG1002 - 2L/Min

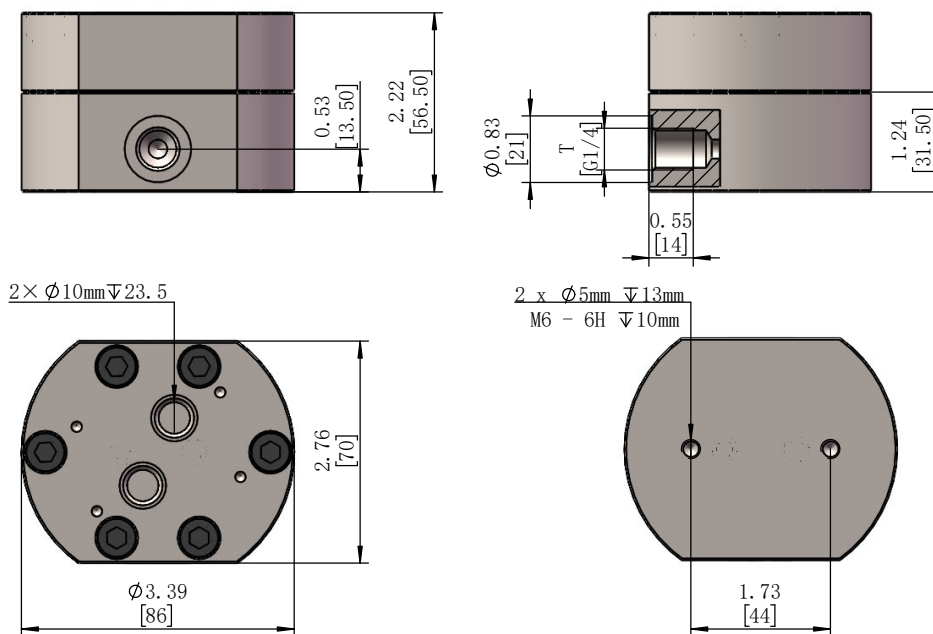


Dimensions in inches[mm]

FG0003/FG1003 - 3L/Min

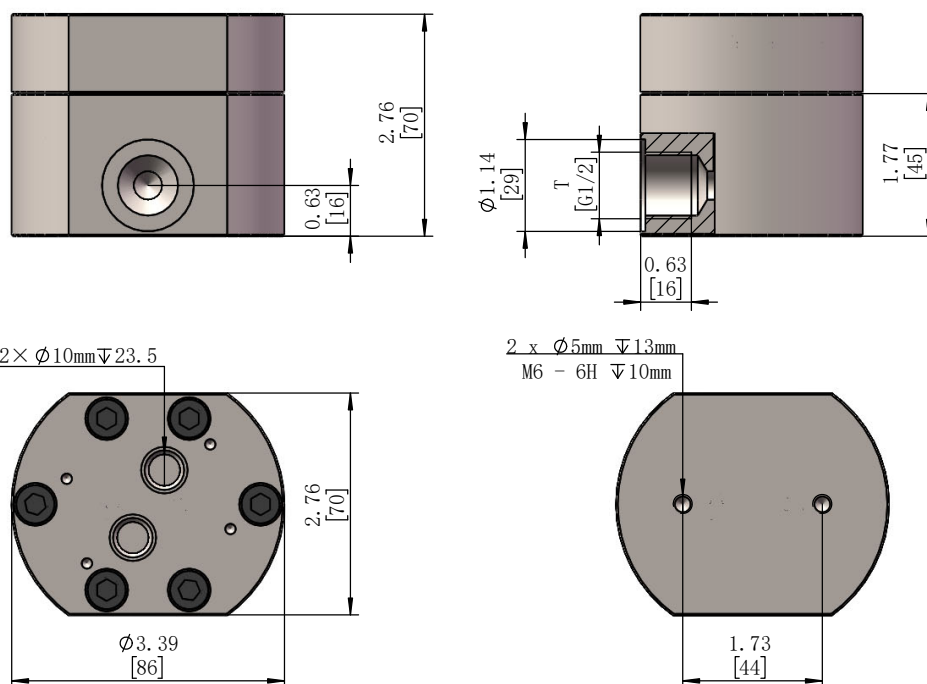


FG0008/FG1008 - 7.5L/Min

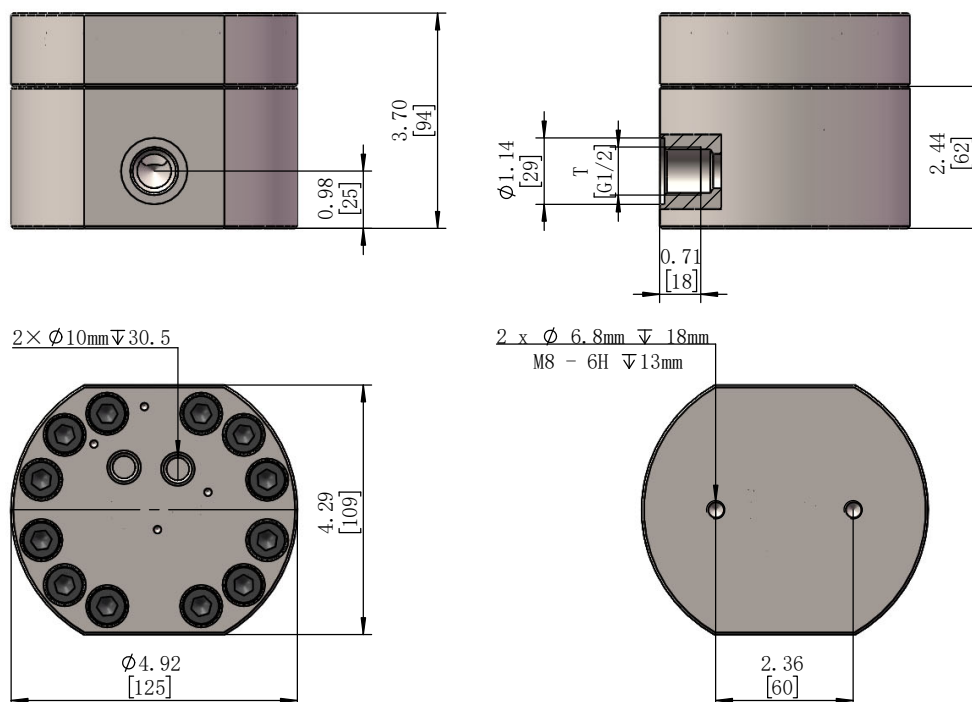


Dimensions in inches[mm]

FG0025 FG1025 - 25L/Min

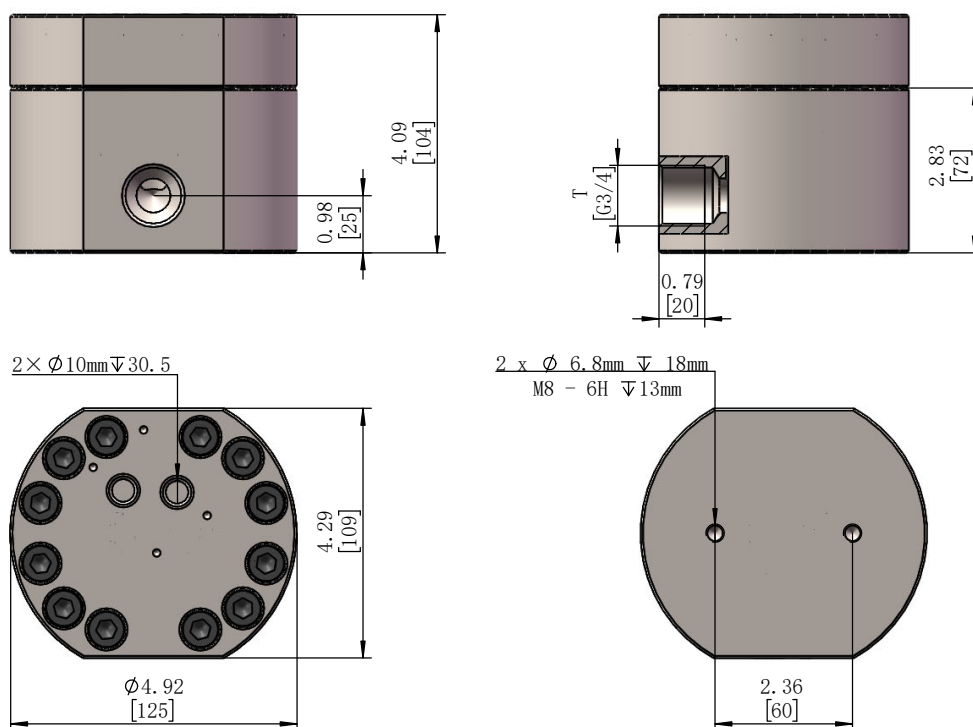


FG0040/FG1040 - 40L/Min

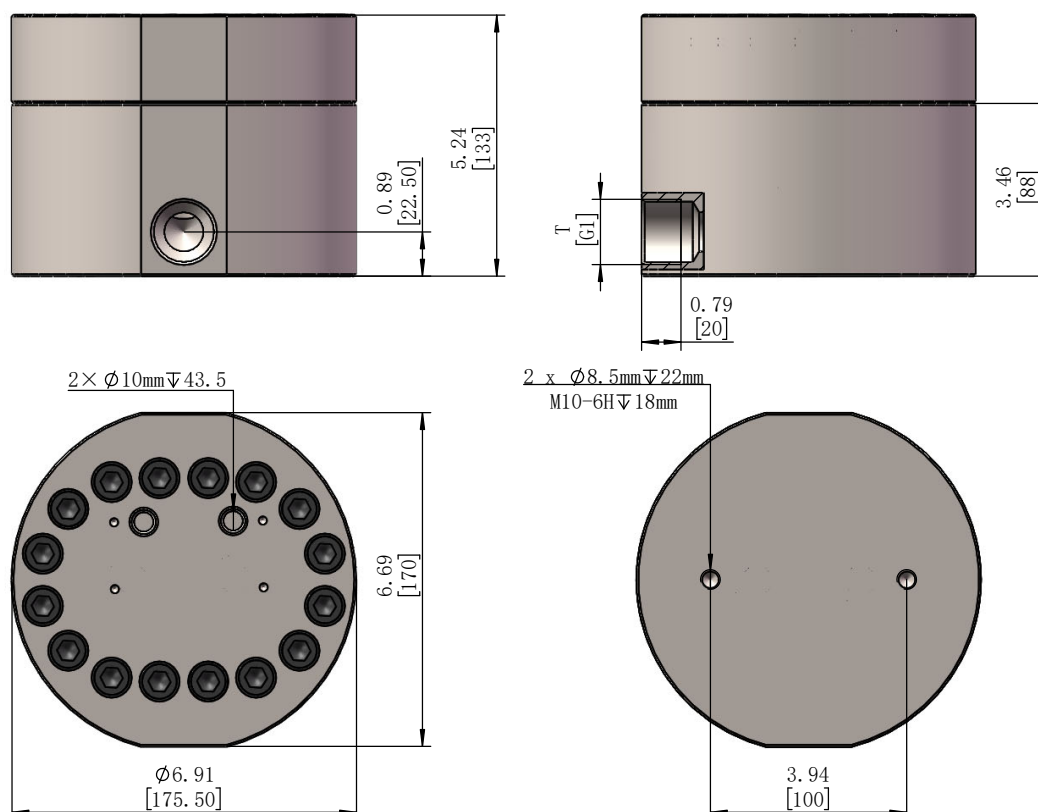


Dimensions in inches[mm]

FG0075 FG1075 - 75L/Min

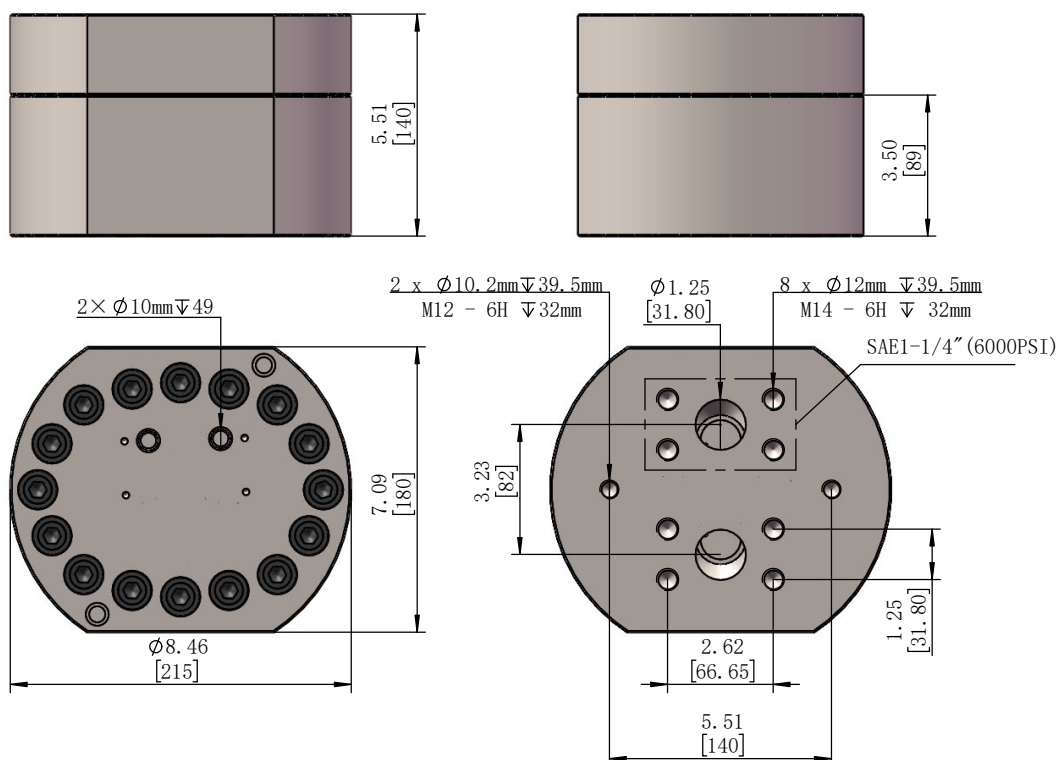


FG00FA/FG10FA - 150L/Min

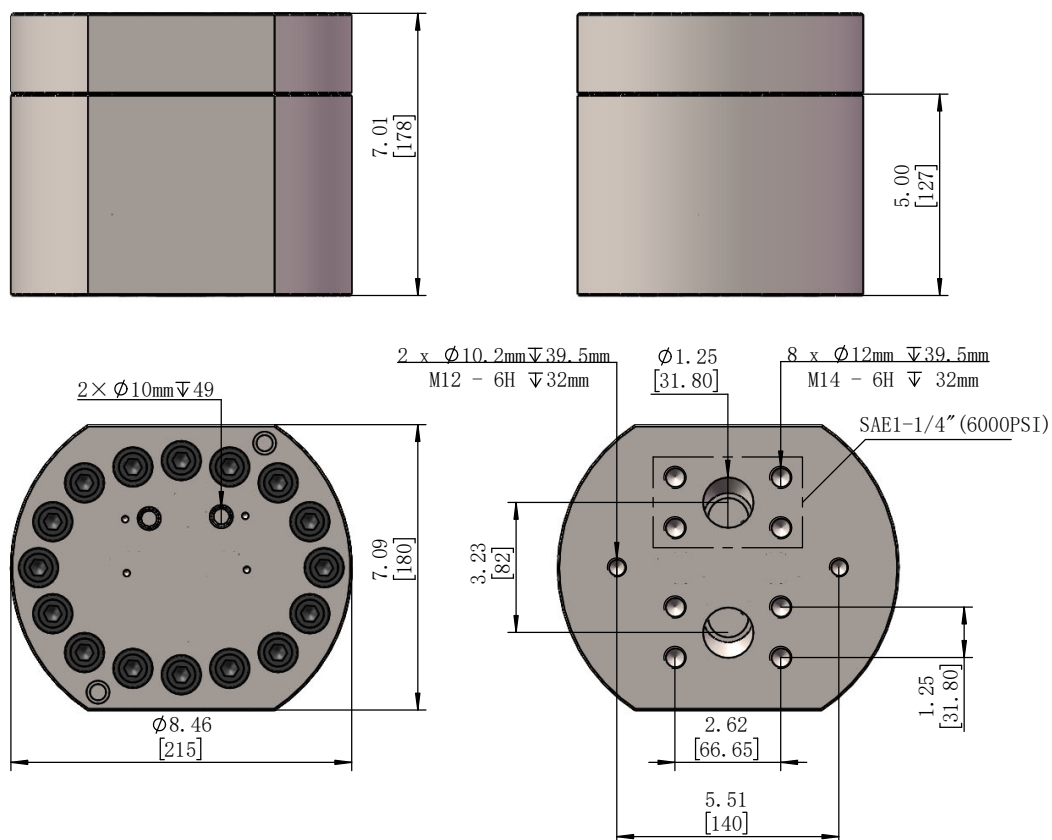


Dimensions in inches[mm]

FG00FF/FG10FF - 225L/Min



FG00UF/FG10UF - 450L/Min



Model Number

FGR200 : Gear Flow Meter						
Interface thread: G1/4 Thread Size G1/4 (Corresponding measuring range 2L/3L/7.5L) G1/2 Thread Size G1/2 (Corresponding measuring range 25L/40L) G3/4 Thread Size G3/4 (Corresponding measuring range 75L) G1 Thread Size G1 (Corresponding measuring range 150L) NPT1/4 Thread Size NPT1/4 (Corresponding measuring range 2L/3L/7.5L) NPT1/2 Thread Size NPT1/2 (Corresponding measuring range 25L) NPT3/4 Thread Size NPT3/4 (Corresponding measuring range 75L) NPT1 Thread Size NPT1 (Corresponding measuring range 150L) S114 SAE 1-1/4" flanged" (Corresponding measuring range 225L/450L)						
Housing Material: S Stainless steel A Aluminum						
FGR200	G1/4	S	BB	N	7.5L	S
Bearing: BB Ball bearings TC Sliding bearing						
Seal material (See technical parameters for details) : F : FPM E : EPDM N : NBR P : FEP T : PTFE L : FFKM M : FKM						
Measuring range (See technical parameters for details) : 2L : 0.02—2L/min 3L : 0.03—3.0L/min 7.5L : 0.75—7.5L/min 25L : 0.25—25L/min 40L : 0.4—40L/min 75L : 0.75—75.0L/min 150L : 1.5—150L/min 225L : 2.25—225.0L/min 450L : 4.0—450.0L/min						
S: Single sensor D: Dual sensor						