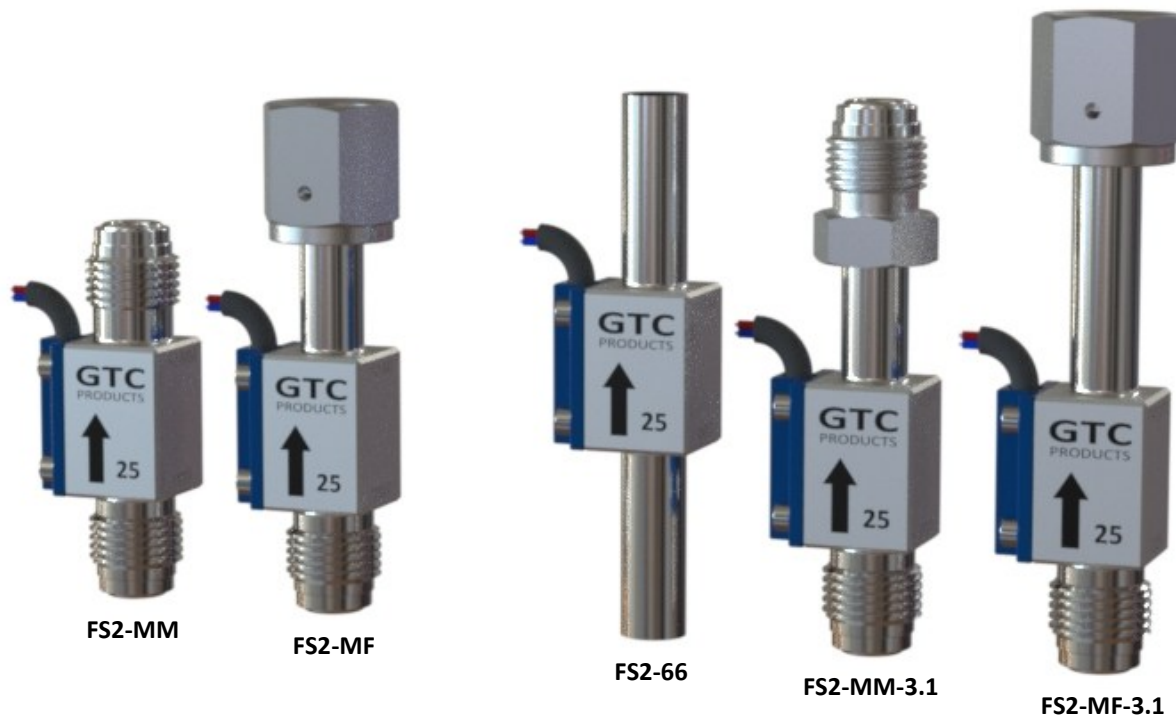


FS2 Excess Flow Switch

Vertical Flow-Thru Series



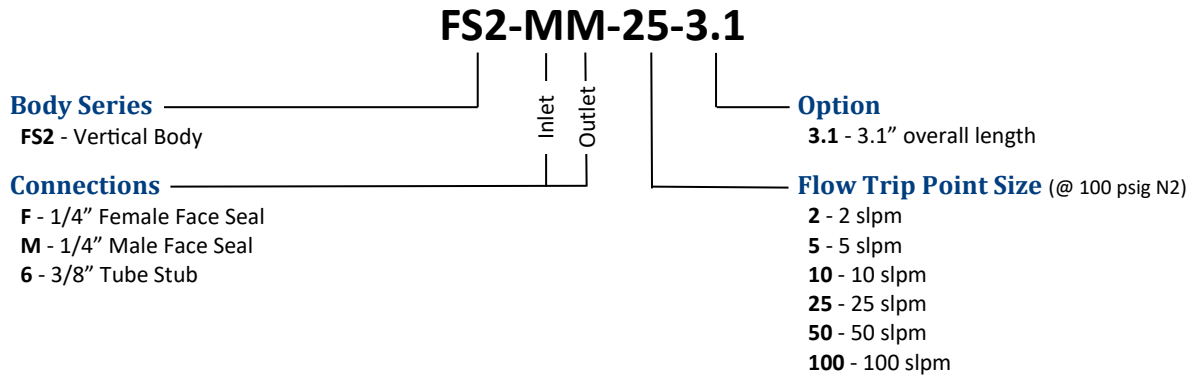
GTC Features

- Flow-Thru design
- Manufactured to UHP Requirements
- Field Replaceable Float and Reed Switch
- Flow Trip Points of 2, 5, 10, 25, 50, and 100 slpm (at 100 psig N2)

Technical Data

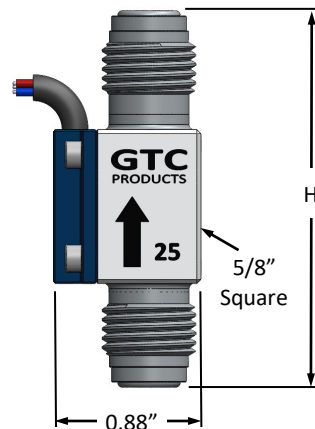
Specification	Value
Operating Pressure	Vac to 3,300 PSIG
Proof / Burst Pressure	6,000 / 12,000 PSIG
Flow Trip Points	2, 5, 10, 25, 50, and 100 SLPM (at 100 PSIG N2)
Orientation	Vertical within 8° (inlet port at bottom)
Operating Temperature	-10° to 175° F (-23° to 80° C)
Helium Leak Rate	1 x 10 ⁻⁹ SCCS
Wetted Surfaces	Body: Electropolished 316L VAR SS - 10 Ra max, Float/Stand: 316L SS
Trip Point Accuracy	+/- 1 SLPM or 10% (whichever is greater)
Reed Switch	SPDT, .25 Max Amp, 125 VDC Max Volts, 24 ga. / 3 conductor leads @ 24" length

Ordering Information



Dimensions

Excess Flow Switch	Overall Height (H)
FS2-MM-[XX]	2.25" [57.2 mm]
FS2-MF-[XX]	2.50" [63.5 mm]
FS2-66-[XX]	3.1" [78.7 mm]
FS2-FM-[XX]-3.1	3.1" [78.7 mm]
FS2-MF-[XX]-3.1	3.1" [78.7 mm]
FS2-MM-[XX]-3.1	3.1" [78.7 mm]



Flow Trip Point - Correction Factors:

The standard Flow Trip Points (FTP) are based on 100 psig pressure Nitrogen. For other pressures and gases, use the following correction factors:

1. Pressure correction factor: $CF_p = \sqrt{(\text{PRESSURE} + 14.7) / 114.7}$, ...PRESSURE is in psig
2. Gas correction factor: $CF_g = \sqrt{28/\text{MW}}$, ...MW is molecular weight
3. $\text{FTP} \times CF_p \times CF_g = \text{New Trip Point}$

Example: 500 psig of Argon (MW=39.9) using a standard 10 slpm flow switch.

1. $CF_p = \sqrt{514.7/114.7} = 2.12$
2. $CF_g = \sqrt{28/39.9} = 0.84$
3. $10 \times 2.12 \times 0.84 = 17.8 \text{ slpm} = \text{New Trip Point}$