Stainless Steel Horizontal Float Switches Series: FS-500

APG®

Series FS-500 Stainless Steel Horizontal Float Switches are durable, versatile float switches with a wide range of usage and applications. Three fitting configurations and two temperature ranges, all carrying NSF 169 and CSA approvals, make the Series FS-500 an easy choice for OEM, water and wastewater, and chemical applications. With their compact size, all stainless steel wetted materials, and reversible switch orientation, FS-500 switches are go-anywhere, use-everywhere switches.

Features

- Compact size
- Reliability/long switch life
- Shock resistant construction
- Can be used in a wide range of liquids
- Operating temperatures up to 500° F (260° C)

- Switch rated for 100 W
- NSF 169 certified
- CSA Explosion Proof (Standard Temp) and General Use (High Temp)

FS-500 Specifications

Series	FS-500			
Model	FS-500-**S**...P1P1 FS-500-**S**...P0P1	FS-500-**HT**...P1P1 FS-500-**HT**...P0P1	FS-500-**S**...P58	FS-500-**HT**...P58

📊 Performance

Pressure Rating	300 psi (20.7 bar)		100 psi (6.9 bar)	
Minimum S.G.	0.6			
Actuation Angle	10° ± 3°			
Hysteresis	8° ± 1°			

☂ Environmental

Operating Temp.	-40° to 368°F (-40° to 187°C)	-40° to 500°F (-40° to 260°C)	-40° to 368°F (-40° to 187°C)	-40° to 500°F (-40° to 260°C)
Liquids	Chemicals, Food, Potable Water			

🔋 Electrical

Switch Rating	
Max Capacity	100 W (resistive load only)
Max Current (AC, 50/60 Hz)	240 VAC: 0.416 A; 120 VAC: 0.833 A; ≤ 100 VAC: 1 A
Max Current (DC)	120 VDC: 0.833 A; ≤ 100 VDC: 1 A
Life Expectancy	10^6 - 10^8 (# of actuations; dependent on electrical load)
Lead Wires	#22 AWG, PTFE 24 - 99 in. (610 - 2515 mm)

🔧 Physical

Material	
Stem	316L SS
Float	316L SS
Retainer	316L SS
Mounting	Horizontal

📄 Certification

CSA/cCSAus Contract #237484	Explosion Proof	General Use
	Class I, Div. 1 & 2, Groups A, B,C, & D, T3	--
	Class II, Div. 1, Groups E, F, T200°C	--
	Class II, Div. 2, Groups F, G, T200°C	--
	Class III	--
	Ta -40° C to 187° C	--
	Single Seal	Single Seal
NSF 169	Yes	Yes
Enclosure Rating	NEMA 4X	--

Common Model Configurations

| Model Number	Model Description
FS-500-S-M1-M1-0.6-P1P1-24	Stainless Steel Stem and Float, **Standard Temperature**, 0.6 SG, **1/2"-1/2" NPTM**, **24" Wires**
FS-500-HT-M1-M1-0.6-P1P1-24	Stainless Steel Stem and Float, **High Temperature**, 0.6 SG, **1/2"-1/2" NPTM**, **24" Wires**
FS-500-S-M1-M1-0.6-P0P1-36	Stainless Steel Stem and Float, **Standard Temperature**, 0.6 SG, **1/4"-1/2" NPTM**, **36" Wires**
FS-500-HT-M1-M1-0.6-P0P1-36	Stainless Steel Stem and Float, **High Temperature**, 0.6 SG, **1/4"-1/2" NPTM**, **36" Wires**
FS-500-S-M1-M1-0.6-P58-48	Stainless Steel Stem and Float, **Standard Temperature**, 0.6 SG, **Bulkhead**, **48" Wires**
FS-500-HT-M1-M1-0.6-P58-48	Stainless Steel Stem and Float, **High Temperature**, 0.6 SG, **Bulkhead**, **48" Wires**
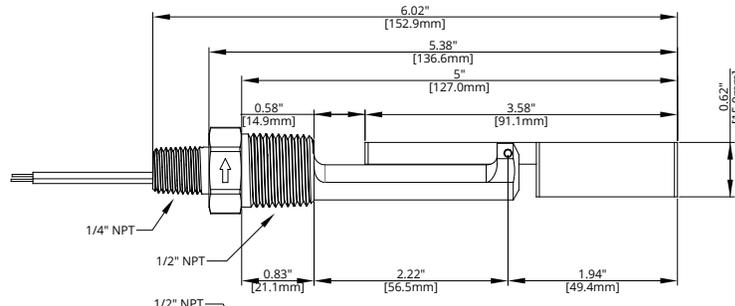
FS-500...P0P1 (closed)
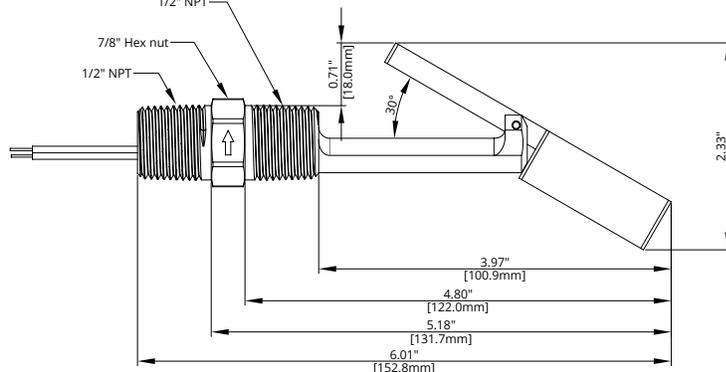
FS-500...P1P1 (open)
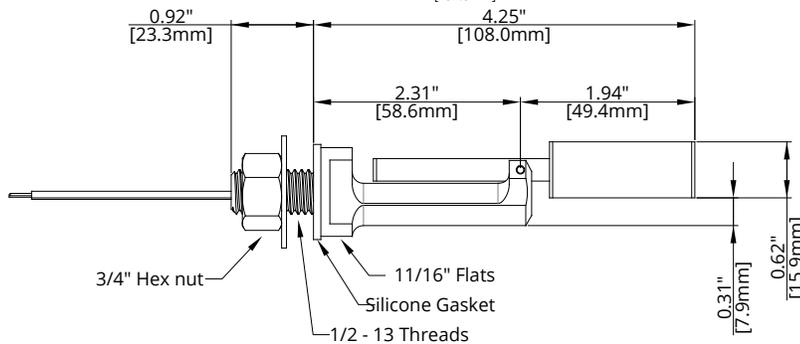
FS-500...P58 (closed)
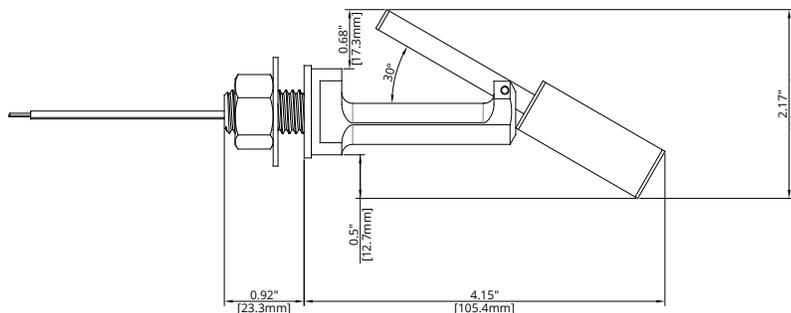
FS-500...P58 (open)

Model Configuration Options

Model Number: FS-500 - _____ - _M1_ - _M1_ - _0.6_ - ____ - ____
              A   B   C   D   E   F

A. Operating Temperature

☐ **S** ▲   Standard Range (-40 - 187°C)

☐ **HT**   High Temperature Range (-40 - 260°C)*

B. Stem Material

☐ **M1** ▲   316 Stainless Steel

C. Float Material

☐ **M1** ▲   316 Stainless Steel

D. Float Specific Gravity

☐ **0.6** ▲   0.6 Specific Gravity

E. Fitting Types (Outer - Inner)

☐ **P1P1** ▲   1/2" NPTM - 1/2" NPTM

☐ **P0P1**   1/4" NPTM - 1/2" NPTM

☐ **P58**   Bulkhead*

F. Wire Length

☐ **__**   Wire Length in Inches (24 - 99)

Note: *Indicates this option is only available with CSA General Purpose ratings.

FS-500 Replacements / Accessories

Please order separately, by part number.

Description	Part Number
316 SS 3/4" Hex nut for FS-500...P58; Quantity 5	200343
316 SS washer for FS-500...P58; Quantity 5	200344
NSF Silicone Gasket for FS-500...P58; Quantity 5	200345