

## INTRODUCTION

**FITZER** Flow switches are designed to provide unique engineering features and quality construction assuring long, trouble free service. Rugged construction design offers excellent durability even in the most severe services. Flow switches are employed in various industries to sense the start or stop of fluid flow in pipe line typically they are used in interlock systems to prevent equipments start up before sufficient flow exists in cooling system, to shut down equipments flow rate to a pre – determined value.

## APPLICATION

- To sense and control of cooling water to condensers, Oil Coolers, steel furnaces, Gas plant or any chemical & gases.
- Control of lubricating oil to heavy machinery
- Control of chilled water systems
- Remote indicating / alarm of flow / no flow condition
- Control of burner air flow
- Pump protection in chemicals plant
- Oil blending system
- Starting of secondary pump in system upon stopping / failure Of primary Pumping system.

## SALIENT FEATURES

- Sensitive set point accuracy + 5% of the set flow during operation.
- Simple mechanism and thus maintenance free.
- Even if the flow over shoots the set point, the switch does not get disturbed unlike in other type.
- Though horizontal installation is recommended, FITZER flow switches can be mounted in vertical lines.
- Easily adjustable set point at site.
- Can withstand high pressure & temperature because of magnetic Coupling principle used i.e. non – use of diaphragm & bellow mechanism.

FS-wp-310  
FLOW switch Horizontal  
'T' Connection  
15 to 50 MB PSP(F)



FS-wp-300  
FLOW switch  
weather Proof  
Encloser



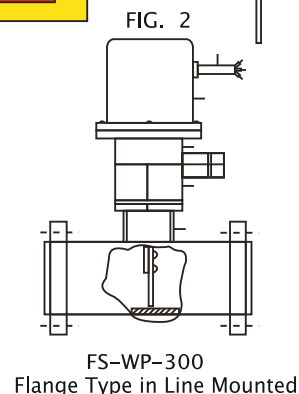
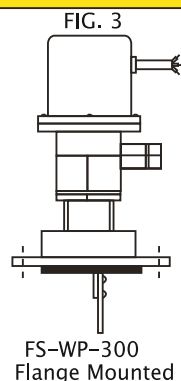
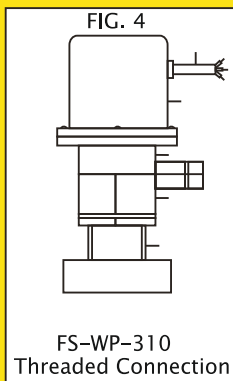
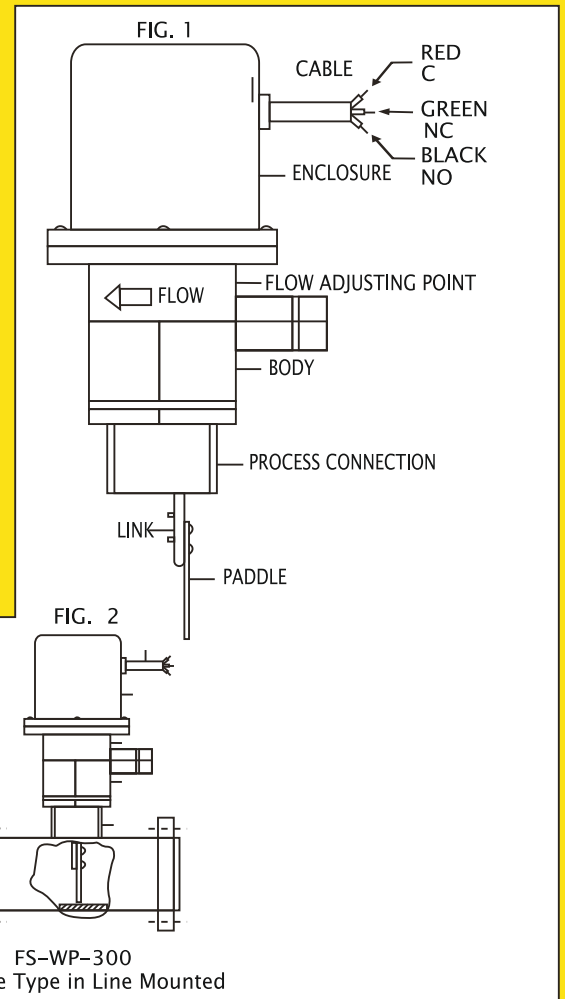
FS-wp-320  
FLOW switches with  
Flam Proof Encloser



FS-wp-200  
Compact Miniature  
wheatr Proof Encloser

# FLOW SWITCH

Series	FS-300
Type	Paddle type Flow Switch
Body	Brass, SS304, SS316, SS316L
Element	Magnetic Link with spring
Magnet	Rare Earth (Permanent)
Range spring	SS316, SS316L
Enclosure	Cast Aluminium, Weather proof/Flame proof
Switch	Microswitch NO-NC, 5Amp. 230 V.A.C.
Cable Gland	Rubber Gland / 3/4" ET
Process Connection	3/4", 1 BSP.(M)
Line Size	Suitable for 1/2" to 16" Pipe Line
Max op. Pressure	300 psi
Max op. Temp.	200 °C



## FLOW SWITCH ( LOW FLOW RANGE )

Switch	Inlet & Outlet	Adjustment Range LPM		Maximum Operations	Maximum Operations
		Com. To N/C	Com. To N/C		
Series	Size	Flow Increase 1/2" x 1/2"	Flow Decrease Min 2.8 Max. 4.0	Temp. C° F Min 1.4	Pressure °C 250150
Fitzer - PS-30	BSP / NDT (F) 3/4" x 3/4"	Max. 5.0			

## FLOW RATES IN GPM/LPM REQUIRED TO ACTUATE SWITCH

Pipe Size		1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	5"	6"	8"	10"	12"	16"	
Minimum Adjustment (Factory Set)	Flow	GPM	8.4	10.8	17.8	26.8	46.1	53.6	71.8	94.5	203.0	394.0	705.0	1140.0
		LPM	32	41	67	101	174	203	271	357	767	1489	2665	4309
	No Flow	GPM	4.0	5.0	8.2	12.4	21.4	22.2	31.8	45.0	125.0	271.0	530.0	860.0
		LPM	15	19	31	47	81	84	120	170	472.5	1024	2003	3251
Maximum Adjustment	Flow	GPM	13.5	170.8	29.4	46.2	76.0	99.0	141.0	198.0	390.0	690.0	1120.0	1820.0
		LPM	51	67	111	175	287	374	533	748	1474	2608	4234	6880
	No Flow	GPM	12.5	15.2	25.2	37.3	66.8	71.0	100.0	140.0	280.0	516.0	880.0	1420.0
		LPM	47	954	95	141	252.5	268	378	529	1058	1950	3326	5368



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