

FLOW SWITCH

AI.FS20 Series



FS-20R



FS-20 DIN



FS-20X



TECHNICAL DATA

Size: From 1/2" to 1"

Service: for "non-corrosive" liquid fluid available

(*in general, we don't recommend using AI.FS20 Series for the seawater application! But, if it is Necessary, please let us know, we can customize the special magnet with lining to match up!)

Material: wetted parts 316 stainless steel

Temperature limit: -20 to 150°C

Pressure limit: 7.0 Mpa (70kg/cm²)

Enclosure housing: FS20R - weather proof
FS20 Din - weather proof
FS20X - explosion proof

Switch function: SPDT microswitch

Switch rating: 3A/250VAC, 3A/30VDC, 0.4A/125VDC

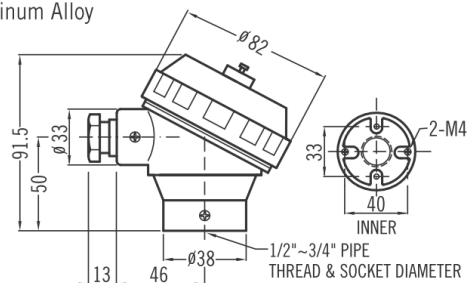
Conduit connection: female 1/2", 3/4" G, NPT and M20xP1.5 or M25xP1.5 available

CAUTION: if using the AI.FS20 for the Emergency Shower, please contact with the manufacturer at the first!

HEAD TYPE

FS20R— Weather Proof IP68

Material: Aluminum Alloy



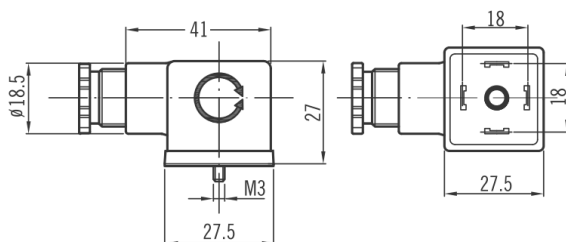
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FS20 Din— Weather Proof IP65

Material: Thermoplastic Rubber

Cable Gland: PG9

Connector: DIN43650



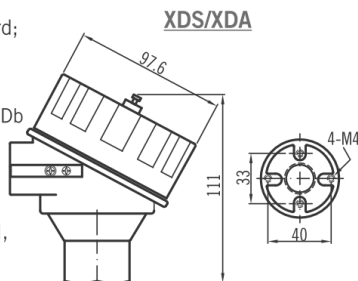
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FS20X— Explosion Proof

Material: Aluminum Alloy- standard;
SS316 available

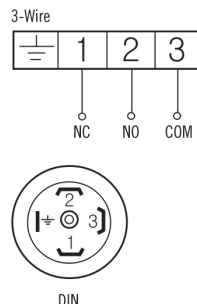
ATEX Approvals: II 2G D
Ex db IIC T6 Gb
Ex tb IIIC T100°C Db

FM Approvals: XP/II/1/ABCD/T6;
DIP/II, III/1/EFG/T6; Type 4X,
Explosion proof for Class I,
Division 1, Groups A,B,C and D;
and dust-ignition proof for class II,
III, Division 1, Groups E,F and G,
hazardous (classified) locations;
indoor/outdoor (NEMA Type 4X).

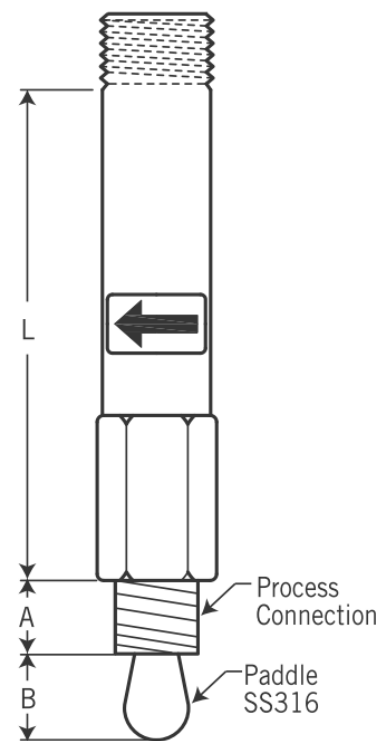


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CONNECTION DIAGRAM



DIMENSIONS



unit=mm

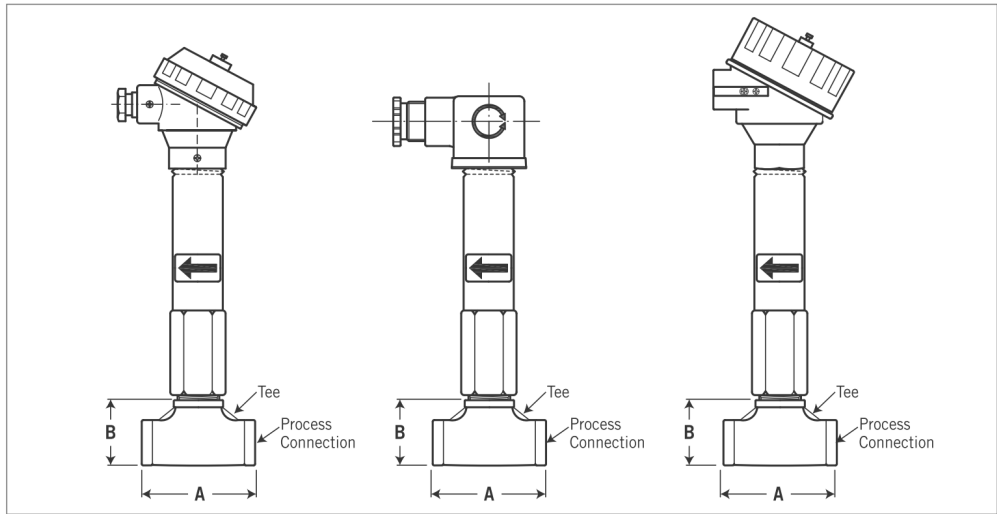
Size	L	A	B
1/2"	90	19	27
3/4"	90	20	32
1"	90	21	42

FLOW RATE TABLE

Process Connection (Female with Tee Fitting)	Flow Rates Required Water at 25°C		Dimensions for Tee			Max. Flow Rate @2 bars
	Acuate (on) ℓ/hour	Deacuate (off) ℓ/hour	A (mm)	B (mm)	REMARK	
½"NPT	380,...460	150,...210	52	45	---	3000 L/H
¾"NPT 1"NPT	550,...610	140,...240	64	47	¾" Paddle & ¾" Tee	7000 L/H
			67	49	¾" Paddle & 1" Tee	
1"NPT	930,...1010	750,...780	72	49	---	---

NOTE. The Flow Rate Table is only for reference. Please consult with manufacturer for the accurate flow rate if without tee fitting.

WITH TEE DRAWINGS



ORDERING INFORMATION

Model	Code	Type							
	FS-20R	Weather Proof Type		FS-20 DIN	Weather Proof Type		FS-20X	Explosion Proof Type	
		Code	Process Connection						
	A	With Tee (Material: SS316) (1) ½"NPT (2) ¾"NPT (3) 1"NPT (4) 1"NPT (but ¾" paddle)							
	B	Without Tee (4) ½"NPT (5) ¾"NPT (6) 1"NPT							
		Code	Head Housing Type						
			Weather Proof (1) HN (only for FS-20R) (2) DIN 43650 (only for FS-20 DIN) (0) Option						
			Explosion Proof (3) XDS (4) XDA (0) Option						
		Code	Conduit Size						
			(1) ½"NPT(F), standard (2) PG9 cable gland (only for FS-20 DIN) (0) Option						
		Code	Explosion Proof Type / Head Housing Type						
N	For Weather Proof Type, FS-20R and FS-20 DIN								
S	Certificate on Housing Only / XDS & XDA: Class I, Groups A, B, C & D; Class II, Groups E, F & G; NEMA 4X								
						Complete Ordering Code			



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Company with
Certificate of Quality
System ISO 9001:2015
Cert n°38785/19/S