VERY HIGH PRESSURE LEVEL SWITCH HIGH RELIABILITY – MECHANICAL SIMPLICITY

MODEL 762

FEATURES

- Mechanical Simplicity Produces Maximum Reliability
- Designed In Accordance With ANSI B31 Or Other
- · Radiography And Dye Penetrant Testing
- Hydro Pressure Test At 150% Of Design Pressure
- 100% Operational Testing
- Low SPG Operation; To 20,000 PSIG Basic
- Interface Detection At Very High Pressures
- Insensitive To High Frequency Vibration
- No Seals To Leak, Magnetically Coupled
- Material Certificates, Mill Test Reports, And Test Documents Provided To User

OPERATION

The Model 762 Level Switch provides output switching at one elevation of a varying liquid level. The unit has its primary element mounted outside the process vessel. The external cage design is utilized to minimize process turbulence effects and so that the level alarm may be valved off from the process vessel. It can then be depressurized for testing and maintenance without disturbing the operation of the process. The output of the unit consists of a switching action at a preset liquid level elevation.

The liquid level rises and the displacer lifts the attractor in front of the switch station magnet. This external magnet pulls in and the output switch is actuated. Decreasing liquid level moves the displacer assembly downwards. The output switch deactuates when the attractor is pulled out of the switch station's magnetic field.

SWITCH STATION AND DISPLACER

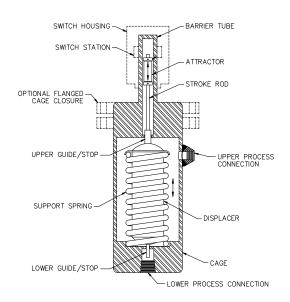
The switch station is on the outside of the barrier tube and is isolated from the process liquid. It is equipped with a magnet whose lines of force pass through the non-magnetic barrier tube. The magnet is pulled in against the outside of the tube and actuates the microswitch(s) when the attractor is lifted into the magnetic field inside the tube.

This unit utilizes thick wall displacers for sensing elements. The support spring offsets most of the displacer weight so that liquid buoyancy requirements are minimized. It is designed for very high pressure services, even those with low specific gravities.



Model 762-36-2"GL

SCHEMATIC CUTAWAY



(Side/Side Type Available)



LIQUID LEVEL AND INTERFACE ALARM FOR VERY HIGH PRESSURES

MODEL NUMBERING SYSTEM

BASIC TYPE . SENSING ELEMENT . BODY/CAGE CONNECTION . PROCESS CONN SPACING . SIZE & TYPE PROCESS CONN HOUSING . OPTIONS MODEL EXAMPLE 762 - 17Y SB/1"FPTY

M/N DESCRIPTION M/N DESCRIPTION
762 1 ALARM
NOTE: 316 S.S. SPRING TO
300°F MAX, INCONEL SPRING
TO 500°F MAX, INCONEL SPRING
ASIC: 316 S.S. TRIM, 416
ATTRACTOR

SENSING ELEMENT							
SENSING ELEMENT				WKG PSIG			
M/N	MATER	RIAL	MIN SPG		AT °F		
	ELEMENT	CAGE	215°	450°	215	450	
17S	316 S.S.	STEEL	0.60	0.65	1325	1015	
17Y		316S.S.	0.60	0.65	1260	1015	
19S	316 S.S.	STEEL	0.40	0.45	1010	810	
19Y	316 S.S.	304 S.S.	0.40	0.45	1010	810	
33S	316 S.S.	STEEL	0.40	0.50	3000	3000	
34S		304 S.S.	0.40	0.50	4500	4500	
35S	316 S.S.	STEEL	0.40	0.50	6000	6000	
36S	316 S.S.	STEEL	0.40	0.50	7500	7500	
37S	316 S.S.	STEEL	0.40	0.50	10,000	10,000	
38S	316 S.S.	STEEL	0.40	0.50	20,000	20,000	
NOTE: UNITS FOR HIGHER PRESSURE AND TEMPERATURE							

ARE AVAILABLE STEEL MATERIAL: A106 AND A105

BODY/CAGE CONNECTION						
M/N	BODY	BY FLOAT TYPE				
*	MATERIAL	17	19	33		38
w	STEEL OR 304 S.S.					
F	STEEL				C/F	
F	316 S.S.				C/F	
* #NATE - MELDED COLID						

"F" = FLANGED CLEANOUT.

SIZE & TYPE PROCESS CONN					
# PROCESS CONNECTION SIZE & TYPE -					
M/N &	A105 CARBON STEEL		304 STAINLESS STEEL		
ANSI SIZE	SB	SSD	SB	SSD	
1"STUB*					
▲ 1"FPT*					
1"/600R*					
1"/1500R*					
1"/2500R*					
SPECIFY PC					

* PROCESS CONNECTION MATERIAL SAME AS CAGE MATERIAL # STYLE OF PROCESS CONNECTION: "SB" = SIDE/BOTTOM;

STYLE OF PROCESS CONNECTION: "SB" = SIDE/BOTTOM;
"SS" = SIDE/SIDE "SSD" - SIDE/SIDE PLUS ½" SIZE BOTTOM DRAIN;
SPECIFY NPT OR SW.
SPECIAL CONNECTION SPACING AVAILABLE; C/F
A 3000 PSIG, WOG FITTING RATING; 1" SCH 80 OR 160 WELDING
STUB CONNECTIONS AVAILABLE: C/F WITH DETAILS
NOTE: INSTALLED DRAIN VALVE AVAILABLE: C/F WITH
SPECIFICATIONS

- FOR 316S.S., ADD 15% TO 304 S.S. PRICE

SPECIFICATIONS

- Temperature: -20 to +215°F (-18 to +102°C); -20 to + 450°F (-18 to 230°C) optional
- Basic Materials: A106 steel and 316 stainless steel
- Design Pressure: In accordance with ANSI B31, ASME Section VIII; or other recognized standards
- Support Spring: 316 S.S. to 215°F Inconel 750 to 450°F
- Trim and Displacer: 316 S.S.
- Attractor: 316 or 416 S.S.
- · Cage Style: Seal welded or flanged
- · Process Connections: Socket weld, butt weld, flanged, Grayloc clamp hubs, or custom as required.

OPTIONAL

Custom modifications to suit a particular application; including materials, dimensions, etc.

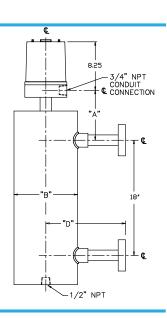
W/P-N4	E/P-7CD,9	INTENDED SERVICE **
S1W S2W S4W	* S1C * S2C S4C	GENERAL USAGE
T1W T2W	T1C T2C	HIGH TEMPERATURE
L1W L2W	L1C L2C	A.C. MOTOR LOADS
D1W D2W	D1C D2C	HIGH D.C. LOADS

SWITCH & HOUSING

M/N	DESCRIPTION
AA	NONE
SA	316 S.S. SHEATHED ATTRACTOR
DM	DUAL MAGNET FOR HIGH VIBRATION
IN	INCONEL
нн	120VAC ELECTRICAL HOUSING HEATER TO PREVENT CONDENSATION & ICING

	DIMENSIONS			
M/N	(HIGH TEMP)			
	"A"	"B"		
17*	7.7	6.6		
19*	7.7	8.6		
33	10.7	8.6		
34	10.7	8.6		
35	10.7	9.0		
36	10.7	9.0		
37	12.0	11.0		
38	C/F	C/F		
	-			

* DIMENSIONS ARE FOR SIDE/BOTTOM TYPE PROCESS CONN.



DESIGNED AND BUILT IN THE USA



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