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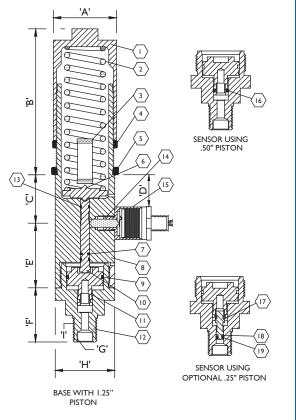
# **SS-E** Manufactured under U.S. Patent number 5155310 Electric Pressure Switch

## **FEATURES**

- 316 Stainless steel construction (models to N.A.C.E. MR0175 available).
- Standard base range 10-10,000 p.s.i. (with 1/4" piston option).
- Operating pressure range from .5 to 20,000 p.s.i.
- Holds constant and accurate set points.
- Designed for 1% plus or minus repeatability on set points.
- Minimum deadband between trip and reset pressure.
- Uses hermetically sealed, snap acting, dry contact switches rated explosion proof. (U.L.® rated Class I, Div. I, Groups A, B, C, D).
- Spring may be replaced with sensing pressure present in the sensor.
- Vent above sensing piston prevents high pressure from entering the switch assembly should a piston seal leak develop.
- Optional tamper proof lock-out device available upon request.

#### **GENERAL DESCRIPTION:**

The Ruelco 'SS-E' electric pressure switch is operated by pressure acting on a piston opposing an adjustable spring force. It functions as a normally closed or normally open switch, depending on which contacts are used. Pressure applied to the sense port will cause the switch to operate.



### Parts List For Pressure Switch Model SS-E

ITEM	ΟΤΥ.	DESCRIPTION	MATERIAL	PART No.			
	1	SPRING CAP	STAINLESS STEEL	41-009-0A0			
2A		SPRING (BLUE)	ASTM-401	41-012-000			
2A 2B	1	SPRING (RED)	ASTM-401	41-012-000			
26 2C	1	SPRING (SILVER)	ASTM-401	41-013-000			
2C 2D			INCONEL	41-019-000			
	1	SPRING (GREEN)					
2E	1	SPRING (YELLOW)	INCONEL	41-020-000			
2F	I	SPRING (PURPLE)	INCONEL	41-021-000			
3	Ι	PARTS TUBE	ACETATE BUTYRATE	4E-010-000			
4	Ι	LOCK RING	STAINLESS STEEL	41-015-000			
5	Ι	PANEL MOUNT RING (OPTIONAL)	STAINLESS STEEL	41-023-000			
6	Ι	SPRING PLATE	STAINLESS STEEL	41-008-0A0			
7	I	SHAFT-O-RING	VITON	V0-008-75T			
8	Т	BODY	STAINLESS STEEL	4E-001-000			
9	I	O-RING F/1.25" PISTON	VITON VO-024-751				
10	I	SPOOL	STAINLESS STEEL 4E-005-00				
Ш	I	1.25"/.50" PISTON	STAINLESS STEEL	42-005-001			
12	Т	1.25"/.50"/.25" SENSOR BASE	STAINLESS STEEL	41-004-0A0			
13	2	WEAR RING	DELRIN	4E-004-000			
14	I	PUSH ROD	DELRIN	4E-002-0A0			
15A	I	SPDT SWITCH ASSEMBLY	STAINLESS STEEL	88-030-RKO			
15B	Т	DPDT SWITCH ASSEMBLY	STAINLESS STEEL	88-031-RKO			
16	I	O-RING F/.5" PISTON	VITON	V0-012-75T			
17	Ι	.25" PISTON (OPTIONAL)	STAINLESS STEEL	41-011-0A0			
18	I	BACKUP F/.25" PISTON	TEFLON	TB-006-00C			
19	I	O-RING F/.25" PISTON	VITON	VO-006-75T			
20	-	REPAIR KIT	ITEMS 7,9,13,16,18,19	4E-003-000			

#### **Switch Specifications**

SET POINT DEVIATION	± 1%
DEADBAND	5% OF RANGE
SWITCHTYPE	SPDT OT DPDT
AC RATING	250 VOLTS @ 5 AMPS
DC RATING	30 VOLTS @ 5 AMPS
AMBIENT TEMPERATURE RANGE	-20 TO 167° F -29 TO 75° C

#### I.25"/.50"/.25" Switch Sensor Specifications

SENSOR TYPE	PISTON
MAX. OPER. PRESSURE	10,000 PSI (690 BAR)
BURST PRESSURE	20,000 PSI (1380 BAR)
AMBIENT TEMPERATURE	-20 TO 250° F
RANGE	-29 TO 122° C

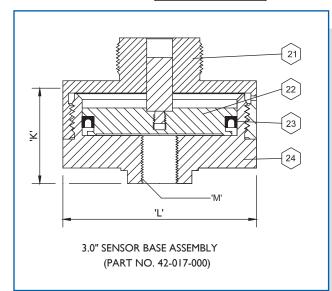
#### **Dimensions Inch (MM)**

A	2.12 in (53.8 mm)
B (MAX)	6.13 in. (155.7 mm)
С	1.39 in. (35.3 mm)
D	.90 in. (22.9 mm)
E	.98 in. (24.9 mm)
F	1.82 in. (46.2 mm)
G	I/4" FNPT
Н	2 in. (50.8 mm)
I	I/2" MNPT
PANEL MOUNT HOLE	I.875 in. (48.0 mm)
WEIGHT *	6.1 LBS. (2.8 Kg.)
WIRE LEADS	18" 18AWG. STRANDED

\* FOR SWITCH AND 1.25/.50/.25 SENSOR BASE

While this information is presented in good faith and believed to be accurate, Ruelco, Inc. does not guarantee satisfactory results from reliance upon such information. Nothing contained herein is to be construed as a warranty or guarantee, expressed or implied, regarding the performance, merchantability, and fitness with respect to the products. Ruelco, Inc. reserves the right, without notice, to alter or improve the designs or specifications of the products described herein.

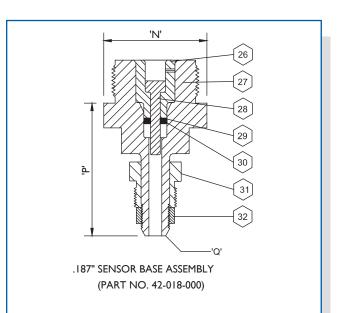
Spring	Spring Codes		Available Ranges - PSI (BAR)													
	LOR)	.5-	4-	10-	10-	20-	50-	200-	500-	1000-	1000-	2000-	5000-	2000-	3500-	8500-
STD. SPRING	INCONEL SPRING	20 (.03- 1.4)	40 (.3- 2.75)	80 (.7- 5.5)	115 (.7- 7.9)	230 (1.4- 15.8)	450 (3.4- 31)	750 (13.8- 51.8)	1500 (34.5- 103.5)	3000 (69- 207)	3000 (69- 207)	5000 (138- 345)	10,000 (345- 689)	5000 (138- 345)	9000 (241- 620)	20,000 (586- 1380)
B (Blue)	G (Green)	Х			Х			Х			Х			Х		
R (Red)	Y (Yellow)		X			Х			Х			Х			X	
S (Silver)	P (Purple)			Х			Х			Х			Х			X
PISTON DIA.		3.0"	3.0"	3.0"	1.25"	1.25"	1.25"	.50"	.50"	.50"	.25"	.25"	.25"	.187"	.187"	.187"
PISTON	PISTON CODE		0	0	I	I	I	2	2	2	3	3	3	4	4	4
		OPT	IONAL B	ASE							OPTIC	onal pis	TON	OPT	IONAL B	ASE



ltem	Qty.	Description		Material	Part No.		
21	Ι	UPPER HOUSING	17-	4 PH ST. STL.	42-011-000		
22	1	PISTON ASSEMBLY	17-	4 PH ST. STL.	42-024-000		
23	I.	SEAL		VITON	VU-334-75T		
24	1	LOWER HOUSING	17-	4 PH ST. STL.	42-012-000		
25	-	REPAIR KIT F/3.0" BASE	REPAIR KIT F/3.0" BASE ITEMS 7,13,23				
		SENSOR TYPE		PIS	TON		
		MAX. OPER. PRESSURE		(345 BAR)			
		BURST PRESSURE	10,000 PSI (690 BAR)				
		AMBIENT TEMPERATURE RANGE		O 250° F O 122° C			

К	2.0 IN. (50.8 mm)
L	3.75 IN. (95.2 mm)
М	I/2" FNPT
WEIGHT *	8.5 LBS. (3.7 KG.)

\* FOR SWITCH AND 3.0" SENSOR BASE

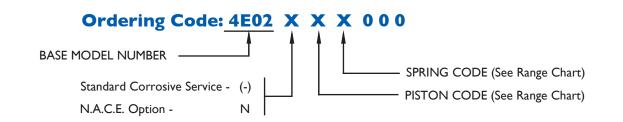


#### Parts List .187" Sensor Base

ltem	Qty.	Description	Material	Part No.
26	I	RETAINER SLEEVE	AISI 316 ST. STL.	42-021-0A0
27	I	.187" SENSOR BASE	17-4 PH ST. STL.	42-019-0A0
28	I	.187" PISTON	17-4 PH ST. STL.	42-020-000
29	1	BACK-UP RING	TEFLON	42-010-3B0
30	1	SEAL	VITON	VP-201-75H
31	1	9/16" GLAND NUT	AISI 316 ST. STL.	42-022-000
32	1	9/16" GLAND COLLAR	AISI 316 ST. STL.	42-023-000
33	-	REPAIR KIT	ITEM 7,13,29,30	42-016-000

SENSOR TYPE	PISTON
MAX. OPER. PRESSURE	20,000 PSI (1380 BAR)
BURST PRESSURE	40,000 PSI (2760 BAR)
AMBIENT TEMPERATURE	-20 TO 250° F
RANGE	-29 TO 122° C
Ν	2.0 IN. (50.8 mm)
Р	2.57 IN. (65.3 mm)
Q	9/16/M/P AUTOCLAVE
WEIGHT *	5.0 LBS. (2.3 KG.)

\* FOR SWITCH AND .187"SENSOR BASE



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# SS Series Pressure Switches

**SS-I** High Flow

SS-2 Standard

**SS-2 High Flow (Pneumatic or Hydraulic)** 

**SS-I** Differential

**SS-2 Differential** 

**SS-4 Hydraulic Bleed** 

**SS-E Electric** 

**SS-E Electric Differential**