RUELCO



SS-2 Differential

Pneumatic Differential Pressure Switch

FEATURES

- 316 stainless steel construction (models to N.A.C.E. MR0175 available).
- Differential pressure range from .5 to 80 psi.
- Block-and-bleed 3-way valve.
- Holds constant and accurate set points.
- Designed for 1% plus or minus repeatability on set points.
- Minimum deadband between trip and reset pressure.
- Spring may be replaced with instrument and sensing pressure present in the sensor.
- Vent above sensing piston prevents high pressure from entering instrument supply should a piston seal leak develop.
- Optional tamper proof lock-out device available.
- Optional mounting brackets available.

GENERAL DESCRIPTION:

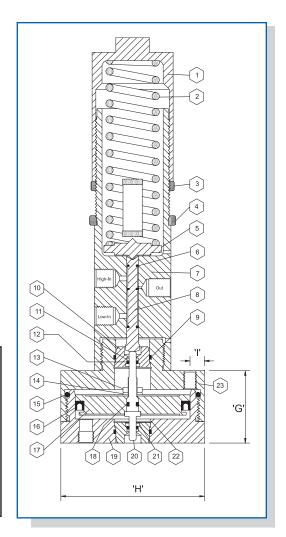
The Ruelco 'SS-2' pneumatic differential pressure switch ia a three way block and bleed valve that is operated by pressure acting on a piston opposing an adjustable spring force. It functions as either a normally closed or normally open valve, depending on which of the two ports the instrument pressure is supplied through. These ports are marked as 'HI IN' or 'LO IN' on the switch body. The output port, marked 'OUT' on the switch body, is the same for either mode of operation. The difference between the pressures acting on the upstream and downstream sensing ports is the differential pressure which causes the valve to operate.

Parts List For Differential Pressure Switch Model 4202

Item Oty. Description Material Part No.					
item	Qty.	Description	Material	Part No.	
1		Spring Cap	316L or ASTM-A-351 S.S.	41-009-0A0	
2A	1	Spring (Blue)	ASTM-401	41-012-000	
2B		Spring (Red)	ASTM-401	41-013-000	
2C		Spring (Silver)	ASTM-401	41-014 -000	
2D		Spring (Green) optional	Inconel X-750	41-019-000	
2E		Spring (Yellow) optional	Inconel X-750	41-020-000	
2F		Spring (Purple) optional	Inconel X-750	41-021-000	
3	1	Lock Ring	AISI 316 St. Stl.	42-015-000	
4	1	Panel Mnt. Ring (Optional)	AISI 316 St. Stl.	41-023-000	
5	1	Spring Plate	AISI 316 St. Stl.	41-008-0A0	
6*	3	Spool O-ring	Viton	VO-008-75T	
7	1	Body For SS-2 CF-8M St. Stl.		42-001-0B0	
8	1	Spool For SS-2	17-4 PH St. Stl.	42-004 -0A0	
9*	2	Sleeve Seal	Viton	VO-020-75H	
10	2	Guide Sleeve	AISI 316 St. Stl.	4D-004-000	
11*	2	Back-Up Ring	Teflon	TB-008-00C	
12*	2	Shaft Seal	Fluorosilocone	FO-008-70T	
13	2	Hex Nut	AISI 316 St. Stl.	T6-08K-0G3	
14	1 1	Lock Washer	AISI 316 St. Stl.	WA-0X0-H43	
15*	- 1	Base Seal	Viton	VO-237-75H	
16*	1	Piston Seal	Viton	VU-334-75T	
17	1	Piston	17-4 PH St. Stl.	4D-003-000	
18*	1	Piston / Shaft Seal	Viton	VO-008-75H	
19	1	Lower Housing	17-4 PH St. Stl.	4D-002-000	
20	1	Shaft	17-4 PH St. Stl.	4D-005-000	
21	2	Seal Retainer	AISI 316 St. Stl.	4D-006-000	
22*	2	Retainer Ring	302 St. Stl.	S2-910-903	
23	1	Upper Housing	17-4 PH St. Stl.	4D-001-0A0	
24		Repair Kit	* Items	4D-008-000	

Ordering Code: 4202 X D X 0 0 0

BASE MODEL NUMBER	 †	A
MATERIAL OPTIONS Standard Corrosive Service - (-) N.A.C.E. Option - N		
SPRING CODE (see range chart) -		



Dimensions Inch (MM)

G	1.62 (41.1)	
Н	3.75 (95.3)	
I	.375 (9.5)	
SENSE PORTS	1/8" NPT(F)	
VALVE PORTS	1/4" NPT(F)	
ASSY.WT.	8.7 LBS. (3.95 KG.)	

Spring	Codes	RANGE CHART			
(COI		DIFFERENTIAL PRESSURE RANGE PSI (BAR)			
STANDARD SPRING	INCONEL SPRING	.5-20 (.03-1.4)	4-40 (.3-2.75)	10-80 (.7-5.5)	
B (Blue)	G (Green)	Х			
R (Red)	Y (Yellow)		X		
S (Silver)	P (Purple)			Х	

Specifications

MAX. Sensor Test Press. PSI (BAR) @ 100 deg. F (37 deg. C)	MAX. Sensor Operating Pressure PSI (BAR) @ 100 deg. F (37 deg.C)	Ambient Temperature Range	Max. Process Fluid Temperature	Set Point Range PSI (BAR)	C _v Factor
2000	6000	-20 to 250 deg. F	250 deg. F	.5-80	0.030
(138)	(414)	-29 to 122 deg. C	(122 deg. C)	(.034-5.52)	