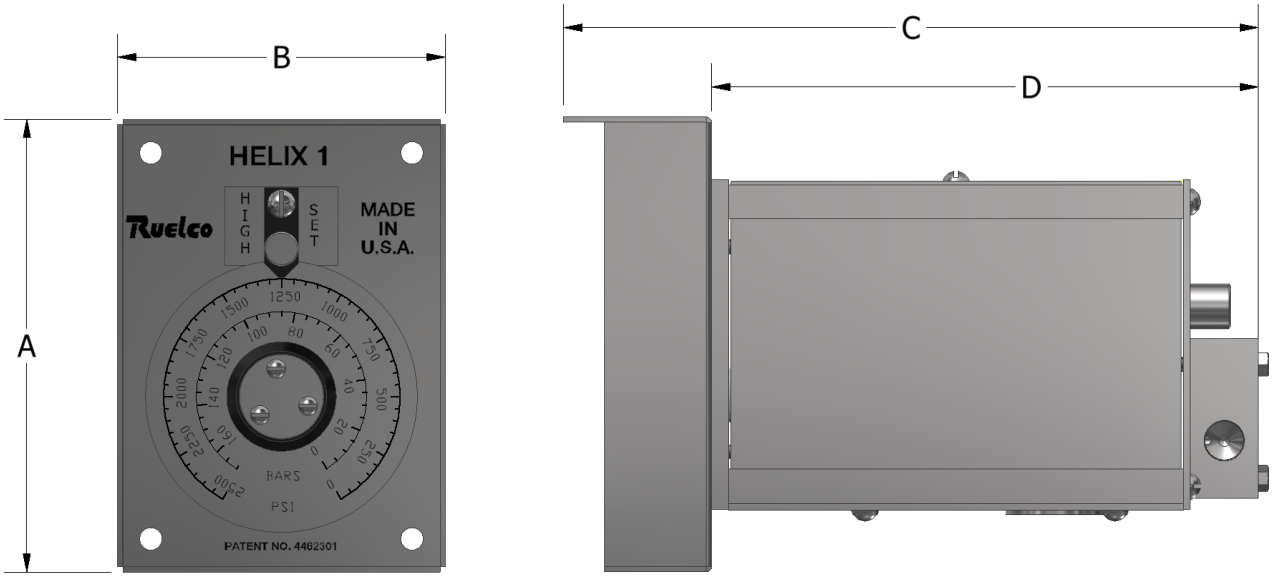
HELIX PRESSURE SWITCH

OPERATION

The Ruelco Dial Pressure Switch is a helix bourdon tube type pressure switch. The helix is designed to have good over-pressure protection as well as a small deadband. The pressure is adjusted by means of the external dial. Supplied as a high or low, the coiled bourdon tube is used as the pressure sensor. This eliminates any soft goods from coming into direct contact with the process fluid. The coil will activate a snap acting block and bleed valve when a high or low set point is reached. All pressure switches are factory calibrated using 30 psi pneumatic signal and come in various ranges from 0-15,000 psi.

FEATURES

- 316 stainless steel construction (models to N.A.C.E. MR0175 available)
- Operating ranges from 0-15,000 psi
- Block and bleed pneumatic valve
- Viton seals are utilized for dependability



DIMENSIONS

A	5.00” (127 mm)
B	3.625” (92.08 mm)
C	7.625” (193.68 mm)
D	6.00” (152.4 mm)
WEIGHT	4.5 LBS (1.95 KG)

PHONE: 504-340-0055
FAX: 504-340-0056
EMAIL: SALES@RUELCO.COM

1209 DISTRIBUTORS ROW
NEW ORLEANS, LA 70123

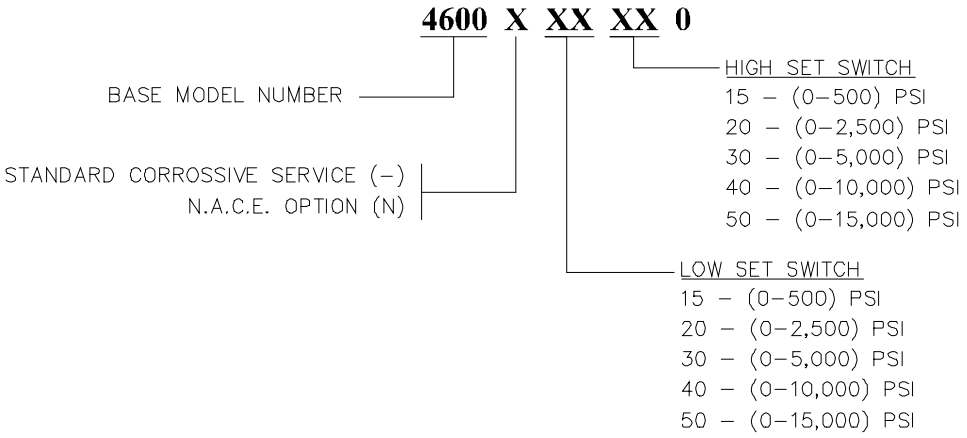
SPECIFICATIONS

MAXIMUM INSTRUMENT PRESSURE	30 PSI (2.07 BAR)
AMBIENT TEMPERATURE RANGE	-20 TO 250° F -29 TO 121° C
WEIGHT	4 LBS 4 OZ (1.95 KG)
REPEATABILITY	1 % OF FULL SCALE
DEADBAND	5 % OF FULL SCALE
ACCURACY	+/- 3%

RANGE CHART

RANGE	MAXIMUM PRESSURE	PROCESS CONNECTION
0-500 PSI (0-34.5 BAR)	1,000 PSI (69 BAR)	1/2" FNPT
0-2,500 PSI (0-172.4 BAR)	5,000 PSI (344.7 BAR)	1/2" FNPT
0-5,000 PSI (0-344.7 BAR)	7,500 PSI (517.1 BAR)	1/2" FNPT
0-10,000 PSI (0-690 BAR)	12,500 PSI (861.8 BAR)	1/4" FNPT
0-15,000 PSI (0-1034 BAR)	18,000 PSI (1241 BAR)	9/16"-18 FEMALE MP CONE

ORDERING CODE



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PARTS LIST

ITEM	QUANTITY	DESCRIPTION	MATERIAL
1	1	BOURDON TUBE SUB ASSEMBLY	316 ST. STL.
2	1	SCALE	316 ST. STL.
3	1	KNOB	DELRIN
4	1	SCALE WASHER	316 ST. STL.
5	1	KNOB PLATE	316 ST. STL.
6	3	SCREWS	ST. STL.
7	1	KNOB SCREW	ST. STL.
8	1	FACE PLATE	316 ST. STL.
9	1	SET TAG	316 ST. STL.
10	1	BRAKE	DELRIN
11	1	BRAKE SCREW	316 ST. STL.
12	1	SCREW	ST. STL.
13	2	FACE PLATE SCREWS	ST. STL.
14	1	BOTTOM CHASSIS PLATE	316 ST. STL./DELRIN
15	1	CAM SHAFT ASSEMBLY	316 ST. STL.
16	4	ELEMENT SUB– ASSEMBLY SCREWS	ST. STL.
17	4	SCREW LOCKWASHERS	ST. STL.
18	1	COVER	316 ST. STL.
19	1	COVER SCREW	ST. STL.
20	1	TOP CHASSIS SUB ASSEMBLY	316 ST. STL./ DELRIN
21	1	BONNET	316 ST. STL.
22	1	MANIFOLD	316 ST. STL.
23	1	VALVE BODY	316 ST. STL.
24*	1	BONNET SEAL	FLUOROCARBON
25*	1	STINGER ASSEMBLY	316 ST. STL./FLUOROCARBON
26*	3	SEALS	FLUOROCARBON
27	4	BACK SCREWS	ST. STL.

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PARTS LIST

ITEM	QUANTITY	DESCRIPTION	MATERIAL
28	4	BACK SCREWS LOCKWASHER	ST. STL.
29A	1	LOW SPRING	MUSIC WIRE
29B	—	HIGH SPRING	MUSIC WIRE
30A	1	LOW ACTUATOR STOP	316 ST. STL.
30B	—	HIGH ACTUATOR STOP	316 ST. STL.
31	1	PADDLE	316 ST. STL.
32	1	STOP LOCK NUT	316 ST. STL.
33	1	PADDLE SCREW	ST. STL.
34	1	CAM BUTTON	316 ST. STL.
35	1	CAM BUTTON SCREW	ST. STL.
36	1	VALVE SCREWS	ST. STL.
37	2	VALVE LOCKWASHERS	ST. STL.

REPAIR KIT

- 45-090-000

OTHER TEMPERATURE RANGES AND SEAL COMPOUNDS

AVAILABLE UPON REQUEST

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