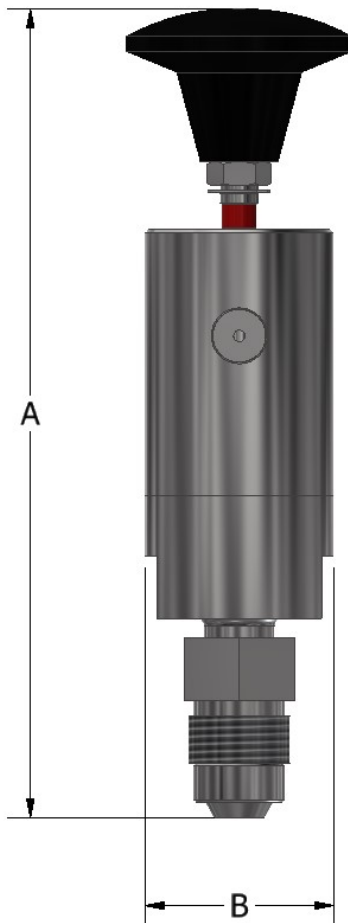


OPERATION

The Ruelco Model 15,000 PSI Pneumatic Sand Probe Relay uses a thin wall steel probe installed directly in a flowline to detect and indicate that excessive erosion or corrosion has occurred. It utilizes a reliable normally closed block-and-bleed 3-way valve that will vent an instrumentation signal and provide visual indication that the probe has lost pressure integrity. This alerts field personnel that inspection of the flowline and possible repair may be required.



FEATURES

- 316 stainless steel construction meets severe service demands (models to N.A.C.E MR0175 available)
- Will operate with flowline pressures as low as 100 psi
- Fluorocarbon O-rings are utilized for dependability
- Red band on shaft provides visual indication that sand probe relay has operated
- Knob provided for manually testing

DIMENSIONS

| | |
|-------------------------|------------------|
| A | 6.37" (161.8 mm) |
| B | 1.50" (38.1 mm) |
| PROCESS CONNECTION PORT | 9/16" MP CONE |
| PNEUMATIC PORTS | 1/4" NPT |

SPECIFICATIONS

| | |
|--|---|
| INSTRUMENT MAXIMUM WORKING PRESSURE | 150 PSI (10.3 BAR) |
| RELAY OPERATION RANGE (BASED ON PROBE) | 300 PSI (20.7 BAR) MINIMUM 15,000 PSI (1035 BAR) MAXIMUM |
| AMBIENT TEMPERATURE RANGE | -20° TO 250° F -29° TO 122° C |
| Cv FACTOR | .34 |

15,000 PSI PNEUMATIC SAND PROBE RELAY

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

1209 DISTRIBUTORS ROW
NEW ORLEANS, LA 70123

PARTS LIST

| ITEM | QUANTITY | DESCRIPTION | MATERIAL |
|------|----------|--------------------|---------------|
| 1A | 1 | BLACK KNOB | PHENOLIC |
| 1B | - | RED KNOB | PHENOLIC |
| 1C | - | GREEN KNOB | PHENOLIC |
| 2 | 1 | LOCK NUT | 316 ST. STL. |
| 3* | 1 | SNAP RING | 316 ST. STL. |
| 4* | 1 | SHAFT O-RING | FLUOROCARBON |
| 5 | 1 | SHAFT | 316 ST. STL. |
| 6 | 1 | VALVE BODY | 316 ST. STL. |
| 7 | 1 | PISTON | 17-4 ST. STL. |
| 8 | 1 | SLEEVE | 17-4 ST. STL. |
| 9 | 1 | HIGH PRESSURE BASE | 17-4 ST. STL. |
| 10* | 1 | PISTON SEAL | FLUOROCARBON |
| 11* | 1 | BACKUP SEAL | TEFLON |
| 12 | 1 | GLAND NUT | 316 ST. STL. |
| 13 | 1 | COLLAR | 316 ST. STL. |

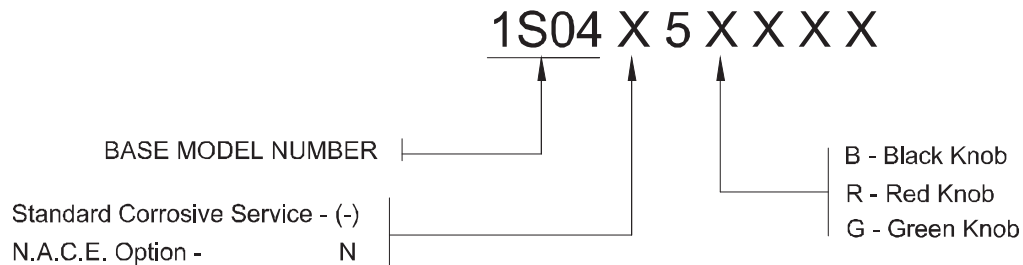
* INDICATES ITEMS IN THE REPAIR KIT

REPAIR KIT

- 1S-014-000

OTHER TEMPERATURE RANGES AND SEAL COMPOUNDS AVAILABLE UPON REQUEST

ORDERING CODE



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

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15,0000 PSI PNEUMATIC SAND PROBE

OPERATION

The Ruelco Electric Sand Probe Relay uses a thin wall steel probe installed directly in a flowline to detect and indicate that excessive erosion or corrosion has occurred. It utilizes a reliable hazardous location, hermitically sealed reed switch and red indication band to provide an electric signal and visual indication that the probe has lost pressure integrity. This alerts field personnel that inspection of the flowline and possible repair may be required. The electric switch can be set either normally open or normally closed depending on the electric connections used.

FEATURES

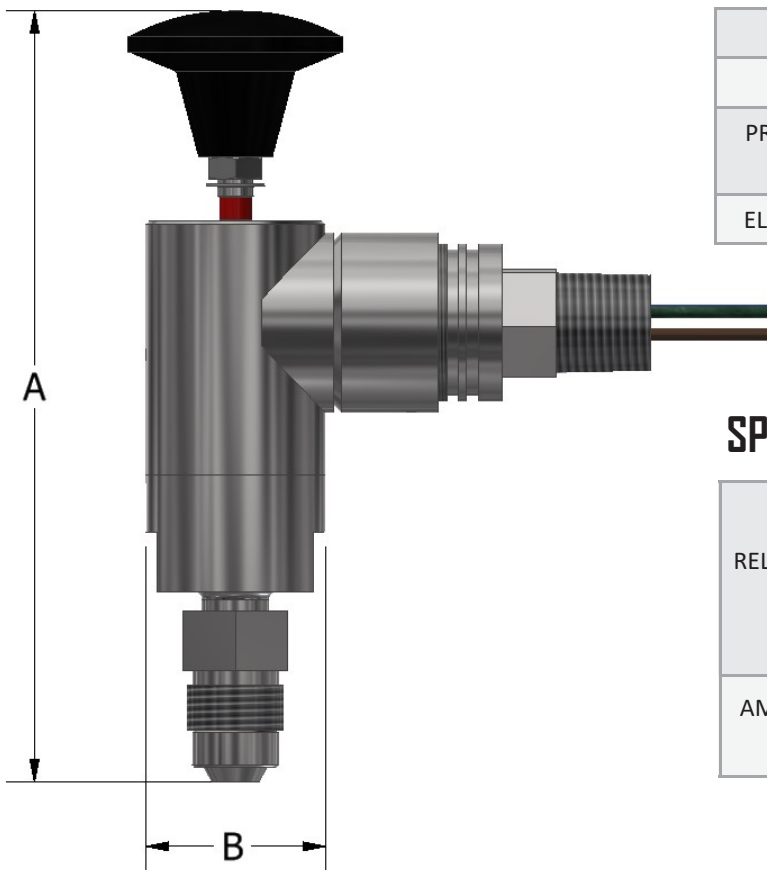
- 316 stainless steel construction meets severe service demands (Models to N.A.C.E MR0175 available)
- Will operate with flowline pressures as low as 100 psi
- Fluorocarbon O-rings are utilized for dependability
- Red Band on shaft provides visual indication that sand probe relay has operated
- Knob provided for manually testing

DIMENSIONS

| | |
|-------------------------|------------------|
| A | 6.37" (161.8 mm) |
| B | 1.50" (38.1 mm) |
| PROCESS CONNECTION PORT | 9/16" MP CONE |
| ELECTRIC CONNECTION | 1/2" MNPT |

SPECIFICATIONS

| | |
|---|-----------------------|
| RELAY OPERATION RANGE (BASED ON PROBE) | 300 PSI (20.7 BAR) |
| | MINIMUM |
| | 15,000 PSI (1035 BAR) |
| | MAXIMUM |
| AMBIENT TEMPERATURE RANGE | -20° TO 250° F |



15,000 PSI ELECTRIC SAND PROBE RELAY

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ELECTRICAL OPERATION

| LEAD | COLOR | RISING LEVEL | FALLING LEVEL |
|----------|----------------|--------------|---------------|
| NO / NO2 | BLUE / PURPLE | CLOSES | OPENS |
| NC / NC2 | RED / BLACK | OPENS | CLOSES |
| C / C2 | BROWN / YELLOW | COMMON LEADS | |
| GND | GREEN | GROUND | |

ELECTRICAL SPECIFICATIONS

| | |
|---|-------------------------------|
| SPDT & DPDT SWITCH MAXIMUM VOLTAGE | 250 VAC 28 VDC |
| SPDT & DPDT SWITCH AMPS @ MAXIMUM VOLTAGE | 5 AMPS |
| AMBIENT TEMPERATURE RANGE | -20 TO 158° F -29 TO 70° C |

ELECTRICAL CERTIFICATIONS

| | |
|---------------------------|-------------------------|
| UNDERWRITERS LABORATORIES | CLASS I, GROUPS A,B,C,D |
| UNDERWRITERS LABORATORIES | CLASS II, GROUPS E,F,G |
| ATEX | Ex d IIC |

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PARTS LIST

| ITEM | QUANTITY | DESCRIPTION | MATERIAL |
|------|----------|-------------------------------|---------------|
| 1 | 1 | BLACK KNOB | PHENOLIC |
| 2 | 1 | LOCK NUT | 316 ST. STL. |
| 3* | 1 | SNAP RING | 316 ST. STL. |
| 4* | 1 | SHAFT O-RING | FLUOROCARBON |
| 5 | 1 | SHAFT | 316 ST. STL. |
| 6* | 1 | WEAR RING | DELRIN |
| 7 | 1 | VALVE BODY | 316 ST. STL. |
| 8 | 1 | PISTON | 17-4 ST. STL. |
| 9 | 1 | SLEEVE | 17-4 ST. STL. |
| 10 | 1 | HIGH PRESSURE BASE | 17-4 ST. STL. |
| 11* | 1 | PISTON SEAL | FLUOROCARBON |
| 12* | 1 | BACKUP SEAL | TEFLON |
| 13 | 1 | GLAND NUT | 316 ST. STL. |
| 14 | 1 | COLLAR | 316 ST. STL. |
| 15A | 1 | SPDT ELECTIC SWITCH ASSEMBLY | 316 ST. STL. |
| 15B | - | DPDT ELECTRIC SWITCH ASSEMBLY | 316 ST.STL. |

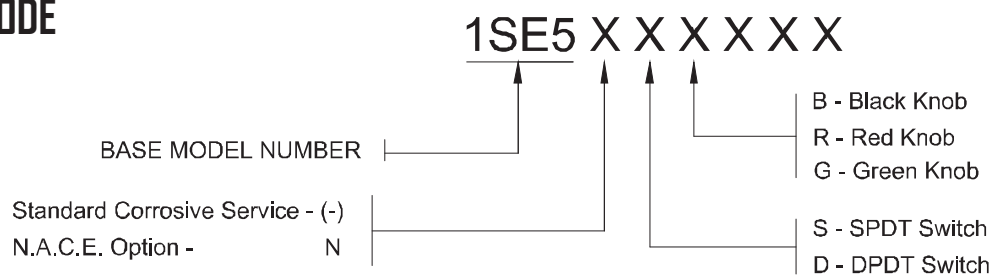
* INDICATES ITEMS IN THE REPAIR KIT

REPAIR KIT

- 1S-027-000

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