

The Original Oilfield Pressure Control

Since 1952



11141 15 Street NE, Calgary, AB, T3K 0Z5, Canada
Phone: 403-253-8320 Email: info@zimco.ca Website: www.zimco.ca

Robinson Pressure Switch

A device that opens or closes a circuit at a predetermined pressure point.

External Set Point Adjustment

Allows users to change the set point without needing to remove the electrical enclosure cover.

Standards and Classifications

CSA approved explosion proof electrical enclosure for Class 1, Division 1, Groups B,C & D Enclosure type 4. CSA master contract number is 15024

Meets Up-to-date Oilfield Standards

Successfully tested to CSA 22.2 No. E60079-0:2007 which requires physical testing by CSA at a specific process temperature.

Pressures switches certified prior to 2007 likely have not been verified and certified by CSA to be explosion proof at their advertised process temperatures.

Dual Seal Certified

“DUAL SEAL” design is certified to meet ANSI/ISA—12.27.01-2003 requirements for process sealing between electrical systems and combustible process fluids.

NACE

The process connections meet the requirements of NACE MR0175.

The extra large diaphragm located in a very shallow recess minimizes performance degradation due to clogging and coking from dirty product streams.

Construction, Design and Performance

All components are designed and built to the latest ISO standards.

Field service life exceeding 10 years is quite the norm.

Field repair kits are available.

Factory repair and setting carry the same guarantee as a new switch.

Trim bushing design allows non-wetted parts of switch (spring body and electrical enclosure assemblies) to be removed without shutting down the process equipment.

External adjustment of both the set point and microswitch gap (dead-band) can be accomplished without opening the electrical enclosure.

ABSA

Certificate of Authorization issued by ABSA for our Quality Program.
Registration number is AQP-5119.

Robinson Controls Inc. is an ISO 9001:2015 registered company.



Model	Adjustment Type	Reset Type			Set Point Adjustment Range (PSI)					Max Process Temp °C	Process Connection		
		Auto/Fixed	Manual	Variable	5-30	10-100	20-500	100-1000	50-1500		3/4" FNPT	3/4" MNPT	2" MNPT
RS-74A	External	X							X	140			X
RS-74M	External		X						X	140			X
RS74A-750F	External	X							X	400			X
RS74M-750F	External		X						X	400			X
RC-AA-DUAL	Internal	X (2)					X	X		140			X
RC-VA-DUAL	Internal	X		X			X	X		140			X
RC-V-Single	Internal			X			X	X		140			X
RC-M0750	External		X			X				60		X	
RC-M0750AK	External		X		X					60	X		

General Specifications

- Process connections materials are NACE MR0175-2003 for sour service
- Electrical Connection is 1/2" - 14 female NPT
- Tested with process temperature of up to 140 C with an ambient of 60 C for auto reset models
- Tested with process temperature of up to 120 C with an ambient of 60 C for manual reset models
- Tested to ANSI/ISA-12.27.01-2003 for Dual Seal Certification
- Enclosures have been tested for use in Hazardous Locations and each have the following markings:
 - Class 1, Div1
 - Groups B,C,D; Type 4
 - Ex d IIB+H2; IP54
 - Zone 1 AEx IIB+H2; IP54
 - Tamb -40 C to +60 C; T6
 - Dual Seal
 - 1/2" - 14 NPT

The Original Oilfield Pressure Switch Company... Incorporated 1952

**Pressure Rating
5000 PSI**

**External Set Point
Adjustment**

**NACE Compliant
Process Connection**



**Security Car Seal
(Lid & Adjustment Collar)**

**50 to 1500 PSI
Adjustment Range**

**Dual Seal
Certified**

RS74A Technical Specifications

CSA certified for use in:
Class 1, Div 1, Groups B, C, D, Zone 1
Group IIB & Hazardous Locations

Tested and constructed to IECex standards

Rated pressure:
5000 psi

Adjustable Range:
50 to 1500 psi

Diaphragm:
Inconel, grade 718

Electrical connection:
1/2" NPT thread

NACE compliant process connection

Enclosure Type 4, IP 54

Additional Items

Electrical Cable Assembly
CSA approved 20 to 60 ft.

Other Switch Models

- Dual (RC-XX Dual)**
Dual Fixed & Dual Variable
- Variable (RC-V Single)**
- Hi Temp (RS-74A/M-750F)**
50 to 1500 PSI Range
- Stuffing Box Switch (RC-M0750)**
10 to 100 PSI Range



The Original Oilfield Pressure Switch Company... Incorporated 1952

**Pressure Rating
5000 PSI**

**External Set Point
Adjustment**

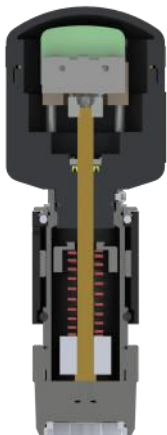
**NACE Compliant
Process Connection**



**Security Car Seal
(Lid & Adjustment Collar)**

**50 to 1500 PSI
Adjustment Range**

**Dual Seal
Certified**



RS74M Tech Specs

CSA certified for use in:
Class 1, Div 1, Groups B, C, D,
Group 11B & Hazardous Locations
Tested & Constructed to IECex Standards
Rated Pressure: 5000 psi
Adjustable Range: 50 to 1500 psi
Diaphragm: Inconel, grade 718
Electrical Connection: ½" NPT thread
NACE Compliant Process Connection
Enclosure: Type 4, IP 54

Additional Items

Electrical Cable Assembly
CSA approved 20 to 60 ft.
Dual Fixed Pressure Switch
Dual Variable Pressure Switch
Single Variable Pressure Switch
Hi Temp Pressure Switch
50 to 1500 PSI Range
Stuffing Box Pressure Switch
10 to 100 PSI Range

Severe Duty Pressure Switch...

*Operates **120°F cooler** than the competition at a **400°F process temperature***

Pressure Rating
5000 PSI at 750 °F

External Set Point
Adjustment

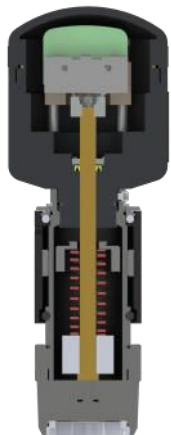
CSA Explosion Proof
Tested to 750 °F



Security Car Seal
(Lid & Adjustment Collar)

50 to 1500 PSI
Adjustment Range

Dual Seal
Certified



RS74M-750F Tech Specs

CSA certified for use in:

Class 1, Div 1, Groups B, C, D,
CEC Zone 1, Exd 11B + H2 T2

Tested & Constructed to IECEx Standards

Rated Pressure: 5000 psi at 750 °F

Adjustable Range: 50 to 1500 psi

Diaphragm: Inconel, grade 718

Electrical Connection: ½” NPT thread

NACE Compliant Process Connection

Enclosure: Type 4, IP 54

Additional Items

Electrical Cable Assembly

CSA approved 20 to 60 ft.

Dual Fixed Pressure Switch

Dual Variable Pressure Switch

Single Variable Pressure Switch

General Duty Pressure Switch

50 to 1500 PSI Range

Stuffing Box Pressure Switch

10 to 100 PSI Range

Severe Duty Pressure Switch...

*Operates **120°F cooler** than the competition at a **400°F process temperature***

Pressure Rating
5000 PSI at 750 °F

External Set Point
Adjustment

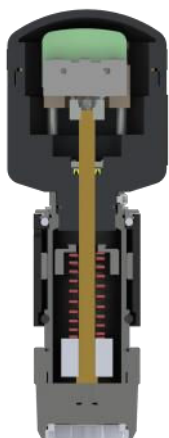
CSA Explosion Proof
Tested to 750 °F



Security Car Seal
(Lid & Adjustment Collar)

50 to 1500 PSI
Adjustment Range

Dual Seal
Certified



RS74M-750F Tech Specs

CSA certified for use in:
Class 1, Div 1, Groups B, C, D,
CEC Zone 1, Exd 11B + H2 T2
Tested & Constructed to IECex Standards
Rated Pressure: 5000 psi at 750 °F
Adjustable Range: 50 to 1500 psi
Diaphragm: Inconel, grade 718
Electrical Connection: ½" NPT thread
NACE Compliant Process Connection
Enclosure: Type 4, IP 54

Additional Items

Electrical Cable Assembly
CSA approved 20 to 60 ft.
Dual Fixed Pressure Switch
Dual Variable Pressure Switch
Single Variable Pressure Switch
General Duty Pressure Switch
50 to 1500 PSI Range
Stuffing Box Pressure Switch
10 to 100 PSI Range

Alternative to the dual Presco FF series



**Two separate
circuits with
fixed differentials**

**Two independently
adjustable
auto reset
micro switches**

**Car-seal
Safety Lockout**

Process Connection
NACE– MR0175:2003
NACE TM-0187



Set Point Range
20 to 500 PSI
100 to 1000 PSI
250 to 1500 PSI

**Check Valve Style
Annunciation Port**
Seals internal
components from
external environment

General Specifications

Maximum Allowable Working Pressure of 5000 psi. CRN: 0F10666.2
CSA Approved for Class 1, Div1, Groups B,C,D and CEC Zone 1, Exd IIB + H2 T4

Alternative to the dual Presco FV series



**Control Two
Separate Circuits**

**Car-seal
Safety Lockout**

Process Connection
NACE- MR0175:2003
NACE TM-0187



**Equipped with
one fixed and
one variable
micro switch**

Set Point Range
20 to 500 PSI
100 to 1000 PSI
250 to 1500 PSI

**Check Valve Style
Annunciation Port**
Seals internal
components from
external environment

General Specifications

Maximum Allowable Working Pressure of 5000 psi. CRN: 0F10666.2
CSA Approved for Class 1, Div1, Groups B,C,D and CEC Zone 1, Exd IIB + H2 T4

Alternative to the Presco F series



**Automatically controls
one circuit**

**Equipped with one
auto reset
micro switch**



**Car-seal
Safety Lockout**

Set Point Range
20 to 500 PSI
100 to 1000 PSI
250 to 1500 PSI

Process Connection
NACE– MR0175:2003
NACE TM-0187

**Check Valve Style
Annunciation Port**
Seals internal
components from
external environment

General Specifications

Maximum Allowable Working Pressure of 5000 psi. CRN: 0F10666.2
CSA Approved for Class 1, Div1, Groups B,C,D and CEC Zone 1, Exd IIB + H2 T4

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Wellhead Stuffing Box Switch...
and other low pressure applications

Pressure Rating
5000 PSI

External Set Point
Adjustment

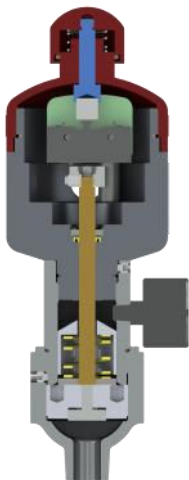
NACE Compliant
Process Connection



Security Car Seal
(Lid & Adjustment Screw)

10 - 100 PSI
Adjustment Range

Dual Seal
Certified



RC-M0750 Tech Specs

CSA certified for use in:
Class 1, Div 1, Groups B, C, D, Zone 1
Group IIB & Hazardous Locations

Tested & Constructed to IECex Standards

Rated Pressure: 5000 psi

Adjustment Range: 10 to 100 psi

Diaphragm Materials: Inconel, PTFE

Electrical Connection: ½" NPT thread

NACE Compliant Process Connection

Enclosure: Type 4, IP 54

Additional Items

Electrical Cable Assembly
CSA approved 20 to 60 ft.

Dual Fixed Pressure Switch

Dual Variable Pressure Switch

Single Variable Pressure Switch

General Duty Pressure Switch
50 to 1500 PSI Range

Hi Temp Pressure Switch
50 to 1500 PSI Range

The Original Oilfield Pressure Switch Company... Incorporated 1952
Low Pressure Switch...

Pressure Range
5 - 30 psi

Manual & Auto
Reset

NACE Compliant
Process Connection



Security Car Seal
(Lid & Adjustment Screws)

External Set Point
Adjustment

Dual Seal
Certified

RC-0750AK Technical Specifications

CSA certified for use in:
Class 1, Div 1, Groups B, C, D, Zone 1
Group IIB & Hazardous Locations
Tested and constructed to IECex standards
Rated pressure:
200 psi
Adjustable Range
5 to 30 psi
Diaphragm:
PTFE
Electrical connection:
1/2" NPT thread
NACE compliant process connection
Enclosure Type 4, IP 54

Additional Items

Electrical Cable Assembly
CSA approved 20 to 60 ft.

Other Switch Models

Dual (RC-XX Dual)
Dual Fixed & Dual Variable
Variable (RC-V Single)
Hi Temp (RS-74A/M-750F)
50 to 1500 PSI Range
General Duty (RS-74A/M)
50 to 1500 PSI Range



Explosion Proof for Hazardous Locations

Standard Length
40 feet
(custom lengths available)

Meets Latest
CSA Standards



Rated to -60°C
Voltage 600v

Serialized and
Traceable

Technical Specifications

14/3 -60°C 600 volt
Ultraflex Jacket (for oil applications)
Type STOW
3 Wire (14 gauge)
Class 1, Div 2, Group C & D
CSA Approved (C22.2 No.0 & C22.2 No. 30)
1/2" MNPT with 90° elbow

Additional Items...

Hazardous Location Pressure Switches

- High Temperature
- Low Pressure
- Dual Circuit
- Variable Differential



Pressure Gauges

Isolation Valve

2" Isolation Valve 3705 PSI

Materials of Construction

Body: Forged Steel A350 LF2
Ball: Cast Steel—CF8M SS
SS Stem: 17-4 PH SS
NACE MR0175/ISO 15156

Connections NPT

Inlet: 2" male
Outlet: 2" female
Accessory: two 1/2" female
Class 1500 (MAWP 3705 PSI)

Design Code

ASME B16.34
API 607 Rev 5
API 598
PED-97/23/EC, Module H
CRN: 0C06968.2

