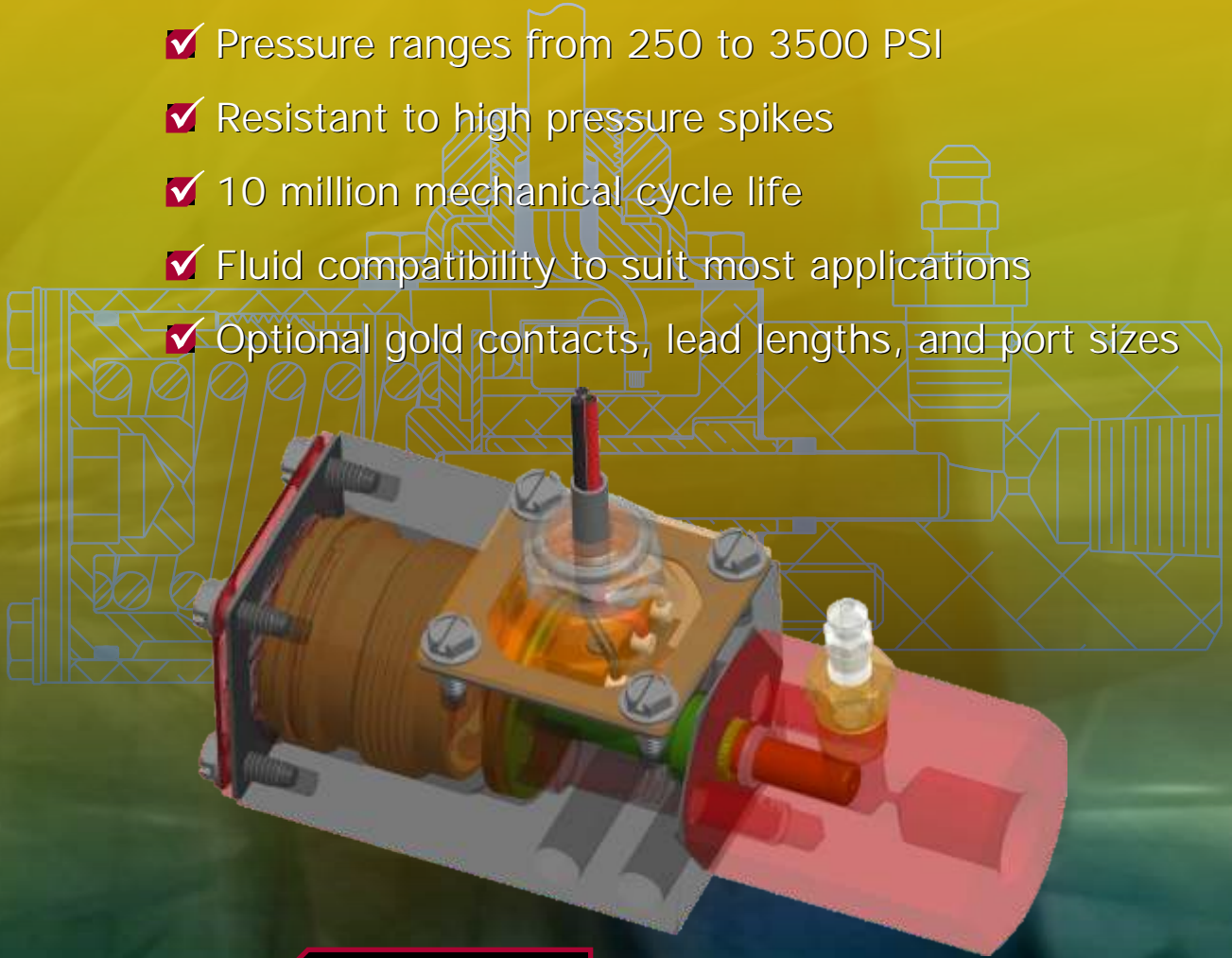


PRESSURE SWITCHES

(high pressure - piston style)

- ✓ Rugged heavy-duty industrial construction
- ✓ Pressure ranges from 250 to 3500 PSI
- ✓ Resistant to high pressure spikes
- ✓ 10 million mechanical cycle life
- ✓ Fluid compatibility to suit most applications
- ✓ Optional gold contacts, lead lengths, and port sizes



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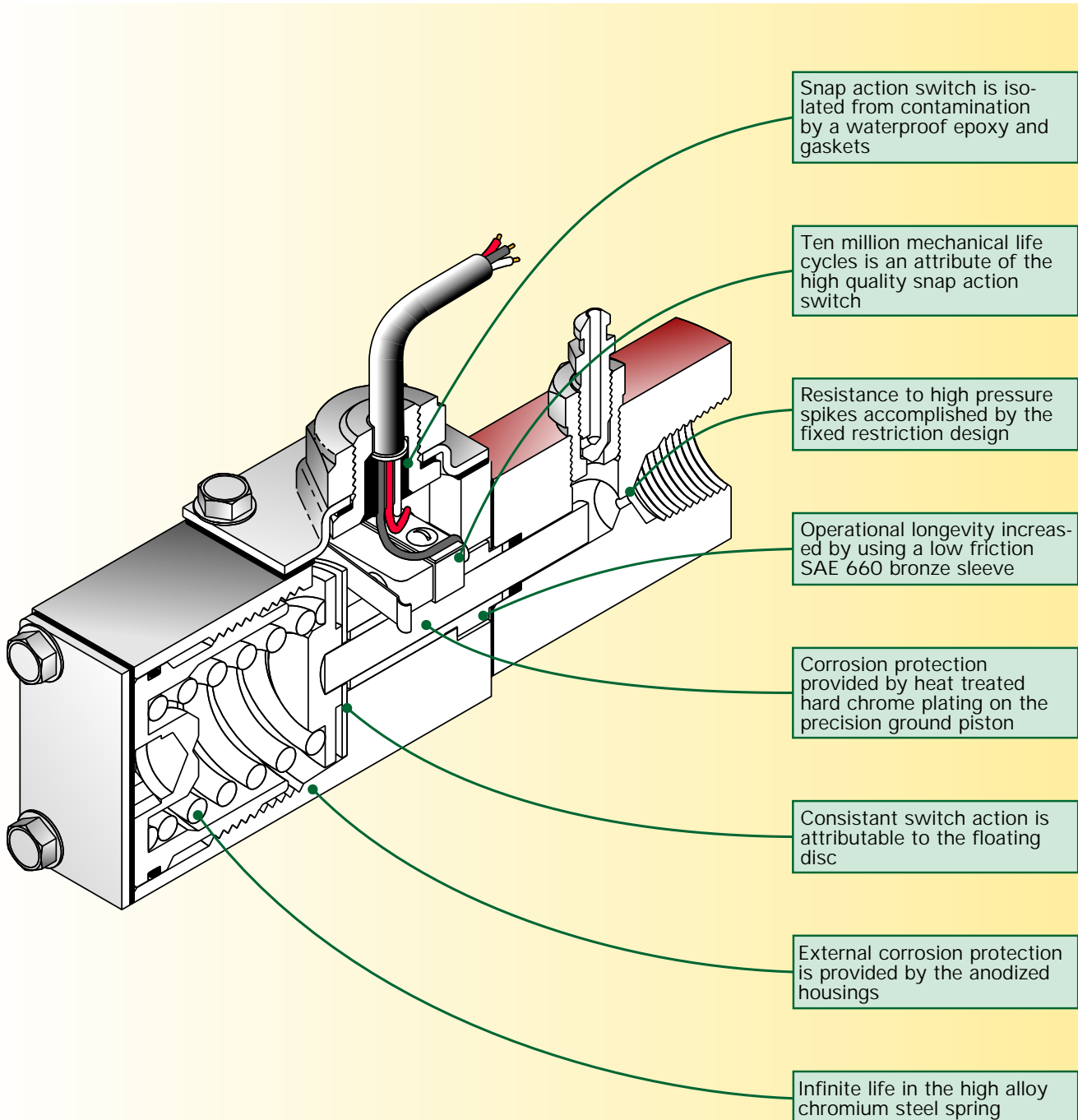
PRINCIPLES OF OPERATION

The MICO Pressure Switch is a high pressure surge resistant switch specially designed for hydraulic applications when an electrical connection or disconnection is desired at a predetermined pressure.

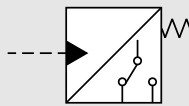
The pressure switch contains a single-pole, double-throw (SPDT) snap action switch that is controlled by a pressurized piston and counteracting spring.

Fluid pressure is used to actuate a piston, which in turn forces against a spring retainer. As the pressure increases the retainer compresses the spring. When this occurs the floating disc moves away from the spring lever of the snap action switch, thus, contact transfer results.

The factory adjusted preload on the spring determines the switch pressure set point.



SPECIFICATIONS

Model Number	Seal Type	Pressure Set Point Range		Wire Lead Length	Inlet Port	Symbol
		Rising Pressure [PSI]	Falling Pressure [PSI]			
20-580-038	NBR	250-1050	200-850	16 in	1/4-18NPTF	
20-580-039	EPDM	750-1850	550-1650	16 in	1/4-18NPTF	
20-580-040	NBR	750-1850	550-1650	16 in	1/4-18NPTF	
20-580-041	EPDM	1100-3500	900-3300	16 in	1/4-18NPTF	
20-580-042	NBR	1100-3500	900-3300	16 in	1/4-18NPTF	
20-580-049	EPDM	250-1050	200-850	16 in	1/4-18NPTF	
20-580-069	NBR	1100-3500	900-3300	16 in	#4 SAE	
20-580-076	NBR	250-1050	200-850	60 in	1/4-18NPTF	
20-580-078	NBR	1100-3500	900-3300	60 in	1/4-18NPTF	
20-580-080	NBR	750-1850	550-1650	60 in	1/4-18NPTF	

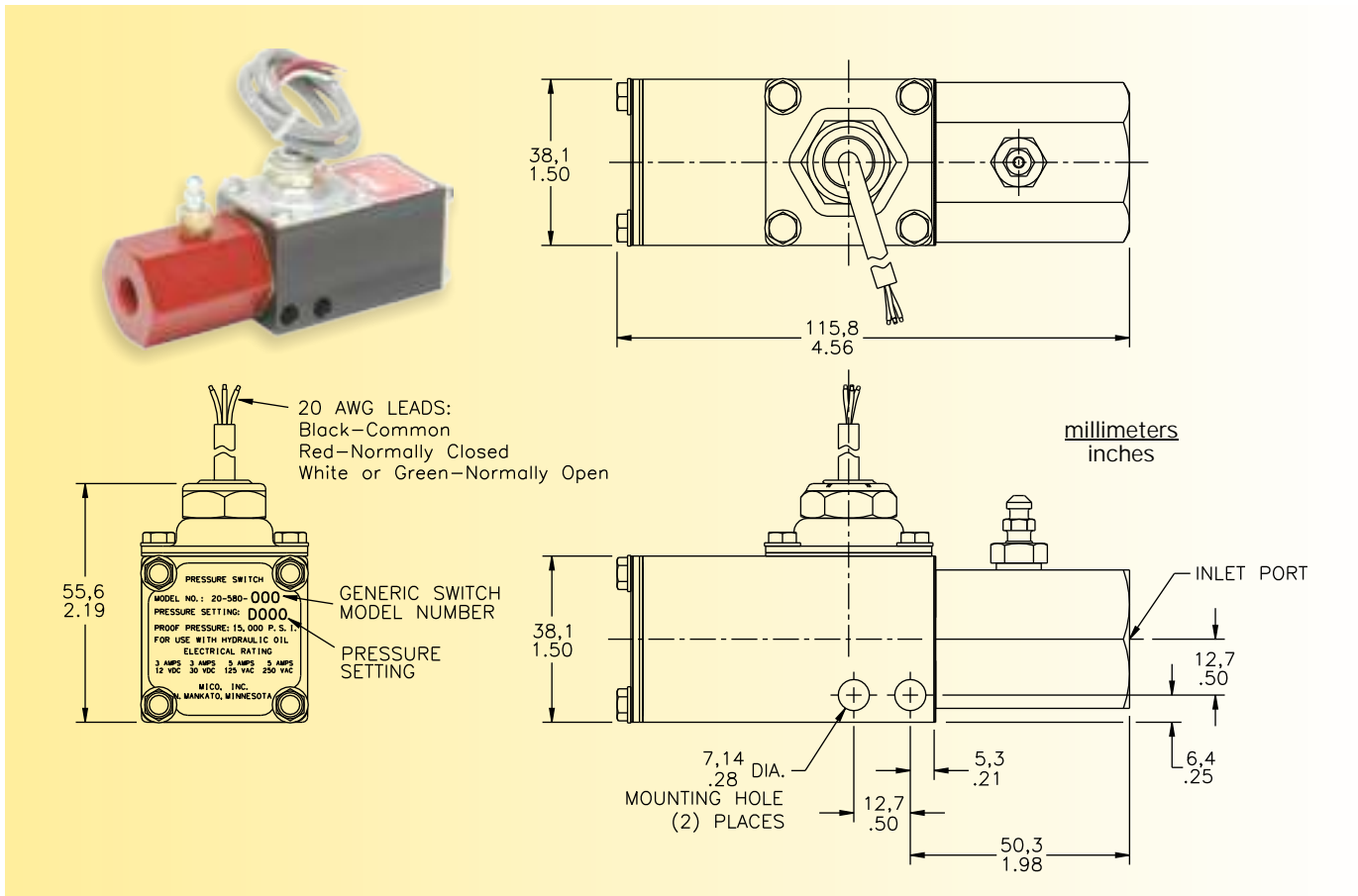
NOTE
 Contact MICO, Incorporated for information regarding: other inlet port sizes, lead wire lengths, pressure set points higher than 3500 PSI, and gold flashing over silver contacts for low current applications.

NBR - compatible with most mineral base fluids
 EPDM - compatible with most automotive brake fluids

GENERAL INFORMATION:

Pressure set point tolerance: ±7%
 Dead band average: 8% to 22% of pressure set point, can vary depending on fluid media and temperature
 Maximum recommended system pressure: 5000 PSI
 Minimum proof pressure: 15,000 PSI
 Minimum burst pressure: 25,000 PSI
 Unit weight: Approximately 17 ounces
 Wire code: Black-common, red-normally closed, white or green-normally open

Contact form and current rating: Snap action switch, SPDT contacts, UL listed, 5 A @ 125/250 Vac, 3 A @ 12/30 Vdc (inductive), 5 A @ 12/30 Vdc (resistive)
 Fluid temperature range: NBR seal models -45 °F (-43 °C) to 220 °F (104 °C), EPDM seal models -70 °F (-57 °C) to 300 °F (149 °C)
 Material exposed to fluid: Anodized aluminum, brass bleed-plug, hard chrome plated piston, seal ring and Hytrel® back-up ring



ADDITIONAL PRESSURE SWITCHES

The MICO Pressure Switches are available for hydraulic applications when an electrical connection or disconnection is desired at a predetermined pressure.

These switches are available with normally open or normally closed contacts.

GENERAL INFORMATION:

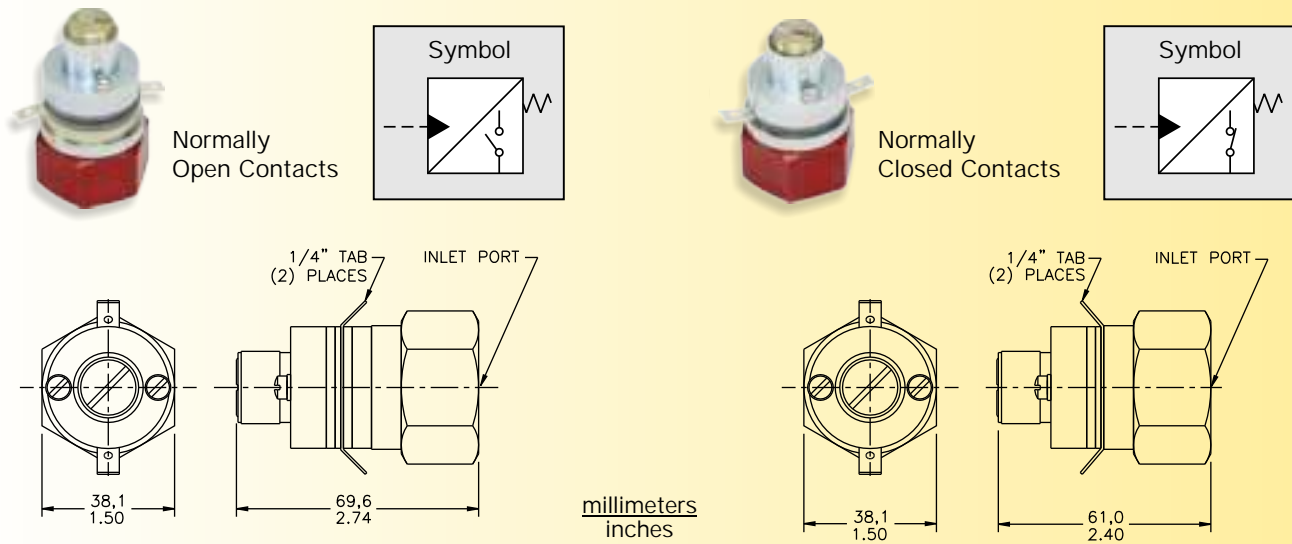
Pressure set point tolerance: $\pm 7\%$
 Dead band average: 10% to 20% of pressure set point
 Maximum recommended system pressure: 2000 PSI
 Minimum proof pressure: 2500 PSI
 Minimum burst pressure: 4500 PSI
 Unit weight: Approximately 6 ounces
 Wiring connection: 1/4 inch quick connect
 Contact form: SPST normally open or normally closed
 Current rating: 5 A @ 125/250 Vac, 20 A @ 12 Vdc

SPECIFICATIONS

Model Number	Seal Type	Pressure Set Point Range		Contacts	Inlet Port
		Rising Pressure [PSI]	Falling Pressure [PSI]		
20-580-008	EPDM	250-800	250-600	Normally Closed	1/8-27NPTF
20-580-009	EPDM	250-800	250-600	Normally Open	1/8-27NPTF
20-580-010	EPDM	800-1200	600-1000	Normally Open	1/8-27NPTF
20-580-016	NBR	250-800	250-600	Normally Closed	1/8-27NPTF
20-580-019	EPDM	800-1200	600-1000	Normally Closed	1/8-27NPTF
20-580-021	NBR	800-1200	600-1000	Normally Open	1/8-27NPTF
20-580-023	NBR	800-1200	600-1000	Normally Closed	1/8-27NPTF
20-580-024	NBR	250-800	250-600	Normally Open	1/8-27NPTF

NBR - compatible with mineral base fluids

EPDM - compatible with most automotive brake fluids



MICO is a registered trademark of MICO, Inc. MICO is registered in the U.S. Patent and Trademark Office as well as in Australia, Indonesia, Japan, Peoples Republic of china, south Korea, and the European Community.



Innovative Braking and Controls Worldwide

MICO, Incorporated
 1911 Lee Boulevard
 North Mankato, MN 56003-2507 U.S.A.
 Tel: + 1 507 625 6426 Fax: + 1 507 625 3212

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