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PRESSURE MONITORING

PRESSURE SWITCHES
VACUUM SWITCHES
PRESSURE TRANSMITTERS

SUCO TECHNOLOGIES INC.
Pressure Monitoring • Transmission Technology

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TRADITION AND INNOVATION

1938 ...

Robert Scheuffele opens a mechanical workshop.

1945 ...

Partnership formed by Robert Scheuffele and Georg Fuhrmann.

1950 ...

Registration of the name SUCO (Scheuffele und Co) as a trademark.

Development and production of centrifugal clutches and brakes.

Market leader in Germany and abroad.

The Company moves into a new production and administration building.

1960 ...

Electromagnetic clutches and brakes introduced into the production program. Development and production of pressure and vacuum switches started.

1970 ...

Establishment of a comprehensive dealer and sales network throughout Europe. SUCO mechanical pressure and vacuum switches become leaders in their market.

1970

Start of the development of the American market.

1997...

Creation of a distribution network in Asia. ISO 9001 certification of the company

From a mechanical workshop to an international industrial manufacturer

Design and development of new products using the latest CAD tools.

To simulate realistic environmental conditions and loads, our products are subjected to extensive trials and tests.

Assembly and testing of pressure switches done on semi or fully automated machines.

Fully-automatic setting of switching point with computer-aided documentation of results.

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MANAGEMENTSYSTEM
DIN EN ISO 9001:2000
LQP
Reg.-Nr. 057967 QM

Thorough training at SUCO is an important guarantee for the continuing development of the company in the future.

Capacity and schedule planning of production orders to make optimum use of the available human, machinery and material resources.

Ultra-modern production plant with integrated, fully-automatic component handling for high efficiency.

Encapsulating equipment for customer-specific ready-wired pressure switches for highest degree of protection (leak tightness).

Latest measurement and inspection equipment for quality assurance in receiving and production.

From here our products are dispatched to any country in the world.

1999 ...

Founding of a subsidiary company, SUCO VSE, in France.

2001 ...

Certification to ISO 9001:2000.

2004 ...

Inauguration of the new building with modern production hall and 6500 ft² office area.

2005 ...

Change of corporate name to SUCO Robert Scheuffele GmbH & Co. KG.

2007

Founding of a subsidiary company, SUCO Technologies, Inc., in the USA.

2009

An additional flooring to the manufacturing building was added, creating approx. 1.000m² of new production capacity.
Newest Certification Standard: ISO 9001:2008.

2010

Acquisition of the company ESI Technology Ltd., Wresham, Wales.

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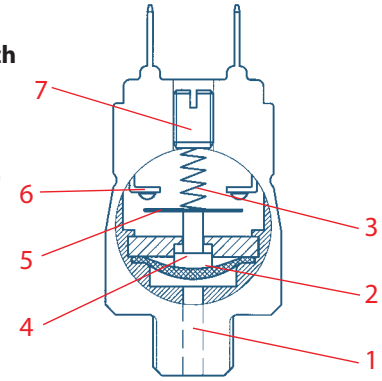
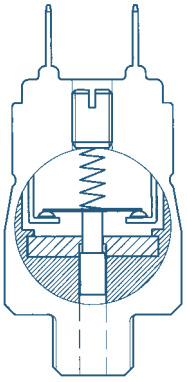
TECHNICAL EXPLANATIONS

How does a pressure switch work?

Diaphragm pressure switch
SPST–NO
(single pole single throw normally open)



Piston pressure switch
SPST–NC
(single pole single throw normally closed)



SPST–NO
(Single pole / Single throw Normally open)

Description of operation for a normally open switch whose contacts close at its set point:
Pressure enters through the connection (1) and acts on the diaphragm (2). If the force resulting from this pressure is greater than the force exerted by the preloaded compression spring (3), the plunger (4) moves taking with it the contact disc (5), which closes the circuit between the contacts (6). When the pressure falls again by an amount greater than the differential, the switch opens again.

SPST–NC
Single pole / Single throw Normally closed)

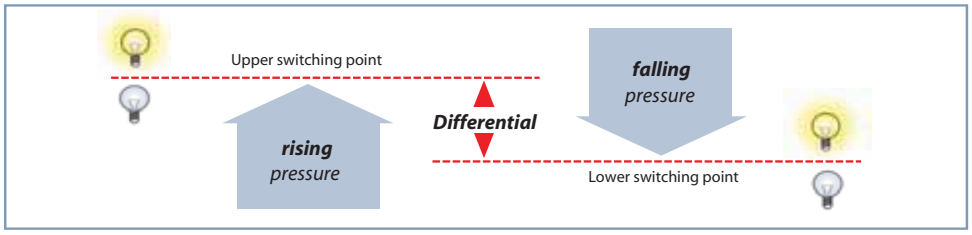
For a ***normally closed*** switch, the action of the contacts is reversed. By turning the setting screw (7), a pressure switch can be adjusted within its pressure range.

Snap action

By using a micro-switch with ***Snap action*** contacts, the normally open and normally closed functions can be combined in a single pressure switch.

Differential

Differential (switching lag) is the term given to the difference between the switching points when the pressure is rising and when it is falling. For pressure switches with non-adjustable ***differential***, it is a function of the switch design. For SUCO switches with adjustable ***differential***, it can typically be set in the range 10 to 30% of the switching point. The ***differential*** cannot be kept for the whole pressure range. It is only an average value.



Switching frequency

The ***switching frequency*** provides information about the possible number of switching cycles per minute. The fiigure given of 200/minute is intended only as a guide. Depending on the type of switch and the operating conditions, a considerably higher number of cycles can be achieved.

Vacuum

In our technical data, the figures for the ***vacuum*** range are given in inches of mecury (Hg) below atmospheric pressure. Data can also be specified as absolute pressure.

Gas applications

Our pressure switches are suitable for liquid and gaseous media. Gaseous media, however, place special demands on leak-tightness. The leakage rate varies with the type of gas, the working pressure, and the permeability of the seal material.

Because of their lower leakage rate, diaphragm switches are better suited to ***gas applications*** than piston-type switches. However, the latter can also be employed if certain precautions (e.g. venting the switch body) are taken.

Please consult us when you have a ***gas application***.

Tolerances

The ***tolerances*** we quote relate to operation at room temperature (RT). The effects of temperature and aging can change ***tolerance*** ranges.

Conversion table for pressure units

Abbreviation for unit	Name of unit	PA = N/m²	BAR	TORR	LB/IN², PSI
1 PA = N/m²	PASCAL	1	0.00001	0.0075	0.00014
1 BAR	BAR	100 000	1	750.062	14.5
1 TORR = 1 mm Hg	MILLIMETERS of mercury	133.322	0.00133	1	0.01934
1 LBF/IN² = 1 PSI	POUND-FORCE PER SQUARE INCH	6894	0.06894	51.71	1

Conversion table for temperature units

	K	°C	F
K	1	K-273.15	9/5 K-459.67
°C	°C +273.15	1	9/5°C +32
F	5/9 (F+459.67)	5/9 (F-32)	1

Media compatibility

The data in our catalog concerning compatibility with various media relate mainly to seal materials. Testing the media compatibility of sealing and body materials for particular applications is the responsibility of the user.

Product information

The technical data we provide result from tests made during product development backed up by experience. They may not be applicable in all cases. It is the responsibility of the user to test the suitability of a switch for particular applications.

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Selection Matrix

			0140	0141	0150	0151	0159	0161	0162	0163	0165	0166	0167	0169	0170	0171	0180	0181	0183	0184	0185	0186	0187	0190	0191	0196	0197	0520	0570	0605	0610	0620
	Catalog, see page		22	22	48	49	39	40	40	14	44	12	17	16	23	24	25	25	27	28	28	30	30	32	33	31	31	52	53	56	56	56
	Mechanical		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
	Electronic																											●	●	●	●	●
	Pressure		●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Vacuum				●	●																								●	●	●
	SPST–NO or SPST–NC					●				●		●	●	●														●	●			
	Snap action		●	●	●		●	●	●		●				●	●	●	●	●	●	●	●	●	●	●	●	●					
Voltage	max. 42 V					●				●		●	●	●	●	●																
	max. 250 V		●	●	●		●	●	●		●						●	●	●	●	●	●	●									
	max. 24 V / 50 mA																							●	●	●	●					
	5 VDC ± 10%																													●		
	12 – 30 VDC																												●		●	●
	18 – 36 VDC																											●				
Switching point	Adjustable		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Setting range	3 – 29 Hg"	(100 – 1000 mbar)			●																											
	6 – 29 Hg"	(200 – 1000 mbar)				●																										
	30 – 0 Hg"	(-1 – 0 bar)																												●	●	●
	0 – 145 psi	(0 – 10 bar)																										●	●	●	●	●
	0 – 1450 psi	(0 - 100 bar)																										●	●	●	●	●
	0 – 3625 psi	(0 - 250 bar)																										●		●	●	●
	0 – 5800 psi	(0 - 400 bar)																											●			
	0 – 8700 psi	(0 - 600 bar)																												●	●	●
	0 – 14500 psi	(0 - 1000 bar)																												●	●	●
	1.45 – 14.5 psi	(0.1 - 1 bar)								●		●	●																			
	1.9 – 29 psi	(0.2 - 2 bar)					●																									
	4.35 – 21.75 psi	(0.3 - 1.5 bar)	●												●		●			●				●								
	7.25 – 14.5 psi	(0.5 - 1 bar)						●	●																							
	7.25 – 72.5 psi	(0.5 - 5 bar)					●	●	●													●				●						
	14.5 – 87 psi	(1.0 - 6 bar)									●																					
	14.5 – 145 psi	(1.0 - 10 bar)	●				●	●	●	●		●	●		●		●			●		●		●		●						
	29 – 290 psi	(2.0 - 20 bar)					●																									
	72.5 – 725 psi	(5.0 - 50 bar)					●				●																					
	145 – 290 psi	(10 - 20 bar)	●							●		●	●																			
	145 – 725 psi	(10 - 50 bar)						●	●						●		●			●		●		●		●						
	145 – 1450 psi	(10 - 100 bar)					●								●		●			●		●		●		●						
	290 – 725 psi	(20 - 50 bar)	●							●		●																				
	290 – 1450 psi	(20 - 100 bar)									●																					
	362 – 3625 psi	(25 - 250 bar)					●																									
	580 – 5800 psi	(40 - 400 bar)					●																									
	725 – 1450 psi	(50 - 100 bar)						●	●																							
	725 – 2175 psi	(50 - 150 bar)		●										●																		
	725 – 2900 psi	(50 - 200 bar)														●		●			●		●		●		●					
	1450 – 5800 psi	(100 - 400 bar)						●	●		●								●													
Over pressure safety up to	290 psi	(20 bar)			●	●							●															●	●	●	●	●
	362 psi	(25 bar)																														
	1450 psi	(100 bar)													●		●			●					●							
	2900 psi	(200 bar)					●	●	●		●																	●	●	●	●	●
	4350 psi	(300 bar)	●									●			●		●			●		●		●		●					
	7250 psi	(500 bar)																										●		●	●	●
	8700 psi	(600 bar)					●	●	●	●	●			●		●		●	●		●		●		●		●		●			
	21750 psi	(1500 bar)																												●	●	●
Body form	Hexagon 0.87"	(22 mm)																												●	●	●
	Hexagon 0.94"	(24 mm)				●				●		●	●	●																		
	Hexagon 1.06"	(27 mm)	●	●											●	●	●	●	●	●	●	●	●	●	●	●	●					
	Square 1.18"	(30 mm A/F)			●		●	●	●		●																	●				
	Square 1.26"	(32 mm A/F)																											●			
Body material	Steel, zinc-plated		●	●						●		●		●	●	●	●	●	●	●	●			●	●			●				
	Stainless steel																					●	●			●	●			●	●	●
	Brass					●							●																			
	Aluminium				●		●	●	●		●																		●			
Special versions	ATEX-version										●																					
	Special connections		●	●						●		●	●	●	●	●	●	●				●	●	●	●	●	●			●	●	●

Electrical Data

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Rated operating voltage U_e	Rated operating current I_e		Utilization category	Model ranges:
250 volt AC 50 / 60 Hz	4 amp	(2 amp)*	AC 12	
250 volt AC 50 / 60 Hz	1 amp		AC 14	**0140**
24 volt DC	4 / 4 amp	(2 / 1 amp)*	DC 12 / DC 13	**0141**
50 volt DC	2 / 1 amp	(1 / 0.5 amp)*	DC 12 / DC 13	**0180**
75 volt DC	1 / 0.5 amp	(0.5 / 0.25 amp)*	DC 12 / DC 13	**0181**
125 volt DC	0.3 / 0.2 amp	(0.2 / 0.1 amp)*	DC 12 / DC 13	**0183**
250 volt DC	0.25 / 0.2 amp	(0.15 / 0.1 amp)*	DC 12 / DC 13	**0184**
Rated insulation voltage U_i:	300 volt			**0185**
Rated surge capacity U_{imp} :	2.5 kV (4 kV)*			**0186**
Rated thermal current I_{the} :	5 amp			**0187**
Switching overvoltage:	< 2.5 kV			
Rated frequency:	DC und 50 / 60 Hz			* Figures in brackets apply to types 0140 and 0141
Rated current of short-circuit protection:	Up to 5 amp	(up to 3.5 amp)*		
Conditional short-circuit current:	< 350 amp			
IP degree of protection to EN60529:1991+A1:1999:	IP65 with plug			
Tightening torque of terminal screws:	< 0.35 Nm			
Conductor cross-section:	0.5 – 1.5 mm²			

Rated operating voltage U_e	Rated operating current I_e	Utilization category	Model ranges:
250 volt AC 50 / 60 Hz	5 amp	AC 12	
250 volt AC 50 / 60 Hz	1 amp	AC 14	
30 volt DC	3.5 / 3.5 amp	DC 12 / DC 13	
50 volt DC	2 / 1 amp	DC 12 / DC 13	
75 volt DC	1 / 0.5 amp	DC 12 / DC 13	
125 volt DC	0.3 / 0.2 amp	DC 12 / DC 13	
250 volt DC	0.35 / 0.2 amp	DC 12 / DC 13	**0150**
Rated insulation voltage U_i:	300 volt		**0161**
Rated surge capacity U_{imp} :	2.5 kV		**0162**
Rated thermal current I_{the}:	6 amp		**0175**
Switching overvoltage:	< 2.5 kV		
Rated frequency:	DC and 50 / 60 Hz		
Rated current of short-circuit protection:	Up to 6.3 amp		
Conditional short-circuit current:	< 350 amp		
IP degree of protection to EN60529:1991+A1:1999:	IP65 with plug		
Tightening torque of terminal screws:	< 0.35 Nm		
Conductor cross-section:	0.5 – 1.5 mm²		

Rated operating voltage U_e	Rated operating current I_e	Utilization category	Model ranges:
250 volt AC 50 / 60 Hz	2.5 amp	AC 12	
250 volt AC 50 / 60 Hz	1 amp	AC 14	
30 volt DC	2 / 2 amp	DC 12 / DC 13	
50 volt DC	1 / 0.5 amp	DC 12 / DC 13	
75 volt DC	0.75 / 0.4 amp	DC 12 / DC 13	
125 volt DC	0.3 / 0.2 amp	DC 12 / DC 13	
250 volt DC	0.3 / 0.2 amp	DC 12 / DC 13	
Rated insulation voltage U_i :	300 volt		
Rated surge capacity U_{imp} :	2.5 kV		**0159**
Rated thermal current I_{the} :	6 amp		
Switching overvoltage:	< 2.5 kV		
Rated frequency:	DC and 50 / 60 Hz		
Rated current of short-circuit protection:	Up to 2.5 amp		
Conditional short-circuit current:	< 350 amp		
IP degree of protection to EN60529:1991+A1:1999:	IP65 with plug		
Tightening torque of terminal screws:	< 0.5 Nm		
Conductor cross-section:	0.5 – 1.5 mm²		

The utilization category describes among other things the voltages and currents and the way of load for our pressure switches according DIN EN 60947-5-1	**Utilization category**
AC 12 : Drive of resistive loads and semiconductor input circuits of optoelectronic couplers (e.g. PLC inputs)	
AC 14 : Drive of electromagnetic loads up to 72 VA	
DC 12 : Drive of resistive loads and semiconductor input circuits of optoelectronic couplers (e.g. PLC inputs)	
DC 13 : Drive of electromagnet	

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Pressure Monitoring Systems

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Overview

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Pressure Switches 0.95" (hex 24mm)

SPST-NO (normally open) or SPST-NC (normally closed)

Maximum voltage 42 V

Technical Data

Degree of protection:	IP65 (IP67/IP6K9K for 0120 /0121) Terminals IP00
Current rating (resistive):	≤ 4 A
Switching frequency:	200 / min.
Temperature stability for diaphragm/seal materials:	NBR (BunaN) -40 °F – +212 °F (-40 °C – +100 °C) EPDM -22 °F – +248 °F (-30 °C – +120 °C) FKM 23 °F – +248 °F (-5 °C – +120 °C) Silicone - 40 °F – +248 °F (-40 °C – +120 °C) HNBR -22 °F – +248 °F (-30 °C – +120 °C)
Mechanical life expectancy:	10^6 cycles (at pressures up to 725 psi)
Vibration resistance:	10 g / 5 – 200 Hz sine-wave
Shock resistance:	294 m/s^2; 14 ms half-sine-wave

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Technical Data

Type	Switching power	Material		Overpressure safe up to:		
	100 VA	Zinc-plated Steel	Brass	290 psi	4350 psi	8700 psi
0163	•	•				•
0166	•	•			•	
0167	•		•	•		
0169	•	•				•
0120	•	•			•	
0121	•	•				•

- Compact switch design, SPST-NC or SPST-NO
- Low-cost mechanical pressure switch to high SUCO quality standards
- High overpressure resistance and long working life even under harsh operating conditions
- Switching point easy to adjust - even during operation[1)]
- Various thread connections to suit your installation (see relevant product data sheet)
- Ready-wired variants - see catalogue page 34
- Versions with spade and screw terminals
- Available with gold contacts upon request
- Other body materials are also possible

[1)] Pressure switches can be supplied preset from our factory. Switches we have preset are secured with sealing paint and have the switching pressure stamped on their body.

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0166

Diaphragm pressure switches max 42 V

Zinc-plated steel body
With M3 screw terminals
Overpressure safe to **4350 psi** [1)]

RoHS COMPLIANT

With male thread

- *Also available with switching point preset in our factory.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

- *Accessories: see page 19*

0166 Diaphragm pressure switches with screw terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:					SPST-NC (normally closed) —› :|				
1.45 – 14.5 (± 2.90)	M 10x1 taper	0166	401	01		001	0166	402	01		005
	1/4" BSPP	0166	401	03		003	0166	402	03		007
	1/8" NPT	0166	401	04		004	0166	402	04		008
	1/4" NPT	0166	401	09		343	0166	402	09		344
	7/16 – 20 UNF	0166	401	20		301	0166	402	20		303
	9/16 – 18 UNF	0166	401	21		302	0166	402	21		304
14.5 – 145 (± 7.25)	M 10x1 taper	0166	405	01		017	0166	406	01		021
	1/4" BSPP	0166	405	03		019	0166	406	03		023
	1/8" NPT	0166	405	04		020	0166	406	04		024
	1/4" NPT	0166	405	09		347	0166	406	09		348
	7/16 – 20 UNF	0166	405	20		309	0166	406	20		311
	9/16 – 18 UNF	0166	405	21		310	0166	406	21		312
145 – 290 (± 14.50)	M 10x1 taper	0166	409	01		033	0166	410	01		037
	1/4" BSPP	0166	409	03		035	0166	410	03		039
	1/8" NPT	0166	409	04		036	0166	410	04		040
	1/4" NPT	0166	409	09		351	0166	410	09		352
	7/16 – 20 UNF	0166	409	20		317	0166	410	20		319
	9/16 – 18 UNF	0166	409	21		318	0166	410	21		320
290 – 725 (± 29.0)	M 10x1 taper	0166	413	01		049	0166	414	01		053
	1/4" BSPP	0166	413	03		051	0166	414	03		055
	1/8" NPT	0166	413	04		052	0166	414	04		056
	1/4" NPT	0166	413	09		355	0166	414	09		356
	7/16 – 20 UNF	0166	413	20		325	0166	414	20		327
	9/16 – 18 UNF	0166	413	21		326	0166	414	21		328

Order number:
Add figure for diaphragm/seal material

		0166	XXX	XX	**X**	XXX	**0166**	XXX	XX	**X**	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	= **1**	= **1**
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	= **2**	= **2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	= **3**	= **3**
	See page 10 for temperature ranges of diaphragm / seal materials		

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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0166

Diaphragm pressure switches max 42 V

Zinc-plated steel body
With spade terminals
Overpressure safe to **4350** psi [1)]

RoHS COMPLIANT

0166 Diaphragm pressure switches with spade terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:					SPST-NC (normally closed) —› :|				
1.45 – 14.5 (± 2.90)	M 10x1 taper	0166	403	01		009	0166	404	01		013
	1/4" BSPP	0166	403	03		011	0166	404	03		015
	1/8" NPT	0166	403	04		012	0166	404	04		016
	1/4" NPT	0166	403	09		345	0166	404	09		346
	7/16 – 20 UNF	0166	403	20		305	0166	404	20		307
	9/16 – 18 UNF	0166	403	21		306	0166	404	21		308
14.5 – 145 (± 7.25)	M 10x1 taper	0166	407	01		025	0166	408	01		029
	1/4" BSPP	0166	407	03		027	0166	408	03		031
	1/8" NPT	0166	407	04		028	0166	408	04		032
	1/4" NPT	0166	407	09		349	0166	408	09		350
	7/16 – 20 UNF	0166	407	20		313	0166	408	20		315
	9/16 – 18 UNF	0166	407	21		314	0166	408	21		316
145 – 290 (± 14.50)	M 10x1 taper	0166	411	01		041	0166	412	01		045
	1/4" BSPP	0166	411	03		043	0166	412	03		047
	1/8" NPT	0166	411	04		044	0166	412	04		048
	1/4" NPT	0166	411	09		353	0166	412	09		354
	7/16 – 20 UNF	0166	411	20		321	0166	412	20		323
	9/16 – 18 UNF	0166	411	21		322	0166	412	21		324
290 – 725 (± 29.0)	M 10x1 taper	0166	415	01		057	0166	416	01		061
	1/4" BSPP	0166	415	03		059	0166	416	03		063
	1/8" NPT	0166	415	04		060	0166	416	04		064
	1/4" NPT	0166	415	09		357	0166	416	09		358
	7/16 – 20 UNF	0166	415	20		329	0166	416	20		331
	9/16 – 18 UNF	0166	415	21		330	0166	416	21		332

Order number:
Add figure for diaphragm/seal material

0166	XXX	XX	**X**	XXX	**0166**	XXX	XX	**X**	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	**1**
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	**2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	**3**
	See page 10 for temperature ranges of diaphragm / seal materials		

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

• *Accessories: see page 19*

info@suco-tech.com
330-722-1145
www.suco-tech.com

0163

Diaphragm pressure switches max 42 V

Zinc-plated steel body
With M3 screw terminals
Overpressure safe to **8700** psi [1)]

RoHS COMPLIANT

With male thread

- *Also available with switching point preset in our factory.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

- *Accessories: see page 19*

0163 Diaphragm pressure switches with screw terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:					SPST-NC (normally closed) —› :|				
1.45 – 14.5 (± 2.90)	M 10x1 taper	0163	401	01		001	0163	402	01		005
	1/4" BSPP	0163	401	03		003	0163	402	03		007
	1/8" NPT	0163	401	04		004	0163	402	04		008
	1/4" NPT	0163	401	09		343	0163	402	09		344
	7/16 – 20 UNF	0163	401	20		301	0163	402	20		303
	9/16 – 18 UNF	0163	401	21		302	0163	402	21		304
14.5 – 145 (± 7.25)	M 10x1 taper	0163	405	01		017	0163	406	01		021
	1/4" BSPP	0163	405	03		019	0163	406	03		023
	1/8" NPT	0163	405	04		020	0163	406	04		024
	1/4" NPT	0163	405	09		347	0163	406	09		348
	7/16 – 20 UNF	0163	405	20		309	0163	406	20		311
	9/16 – 18 UNF	0163	405	21		310	0163	406	21		312
145 – 290 (± 14.50)	M 10x1 taper	0163	409	01		033	0163	410	01		037
	1/4" BSPP	0163	409	03		035	0163	410	03		039
	1/8" NPT	0163	409	04		036	0163	410	04		040
	1/4" NPT	0163	409	09		351	0163	410	09		352
	7/16 – 20 UNF	0163	409	20		317	0163	410	20		319
	9/16 – 18 UNF	0163	409	21		318	0163	410	21		320
290 – 725 (± 29.0)	M 10x1 taper	0163	413	01		049	0163	414	01		053
	1/4" BSPP	0163	413	03		051	0163	414	03		055
	1/8" NPT	0163	413	04		052	0163	414	04		056
	1/4" NPT	0163	413	09		355	0163	414	09		356
	7/16 – 20 UNF	0163	413	20		325	0163	414	20		327
	9/16 – 18 UNF	0163	413	21		326	0163	414	21		328

Order number: Add figure for diaphragm/seal material

0163	XXX	XX	**X**	XXX	**0163**	XXX	XX	**X**	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	**1**	=	**1**
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	**2**	=	**2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	**3**	=	**3**
	See page 10 for temperature ranges of diaphragm / seal materials				

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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0163

Diaphragm pressure switches max 42 V

Zinc-plated steel body
With spade terminals
Overpressure safe to **8700** psi[1)]

0163 Diaphragm pressure switches with spade terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:					SPST-NC (normally closed) —› :|				
1.45 – 14.5 (± 2.90)	M 10x1 taper	0163	403	01		009	0163	404	01		013
	1/4" BSPP	0163	403	03		011	0163	404	03		015
	1/8" NPT	0163	403	04		012	0163	404	04		016
	1/4" NPT	0163	403	09		345	0163	404	09		346
	7/16 – 20 UNF	0163	403	20		305	0163	404	20		307
	9/16 – 18 UNF	0163	403	21		306	0163	404	21		308
14.5 – 145 (± 7.25)	M 10x1 taper	0163	407	01		025	0163	408	01		029
	1/4" BSPP	0163	407	03		027	0163	408	03		031
	1/8" NPT	0163	407	04		028	0163	408	04		032
	1/4" NPT	0163	407	09		349	0163	408	09		350
	7/16 – 20 UNF	0163	407	20		313	0163	408	20		315
	9/16 – 18 UNF	0163	407	21		314	0163	408	21		316
145 – 290 (± 14.50)	M 10x1 taper	0163	411	01		041	0163	412	01		045
	1/4" BSPP	0163	411	03		043	0163	412	03		047
	1/8" NPT	0163	411	04		044	0163	412	04		048
	1/4" NPT	0163	411	09		353	0163	412	09		354
	7/16 – 20 UNF	0163	411	20		321	0163	412	20		323
	9/16 – 18 UNF	0163	411	21		322	0163	412	21		324
290 – 725 (± 29.0)	M 10x1 taper	0163	415	01		057	0163	416	01		061
	1/4" BSPP	0163	415	03		059	0163	416	03		063
	1/8" NPT	0163	415	04		060	0163	416	04		064
	1/4" NPT	0163	415	09		357	0163	416	09		358
	7/16 – 20 UNF	0163	415	20		329	0163	416	20		331
	9/16 – 18 UNF	0163	415	21		330	0163	416	21		332

Order number: Add figure for diaphragm/seal material

0163	XXX	XX	**X**	XXX	**0163**	XXX	XX	**X**	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	= **1**	= **1**
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	= **2**	= **2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	= **3**	= **3**
	See page 10 for temperature ranges of diaphragm / seal materials		

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

• *Accessories: see page 19*

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330-722-1145
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0169

Piston pressure switches max 42 V

Zinc-plated steel body
With M3 screw or spade terminals
Overpressure safe to **8700** psi [1)]

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*
- *Accessories: see page 19*

0169 Piston pressure switches with screw terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:					SPST-NC (normally closed) —› :|				
725 – 2175 (± 72.5)	M 10x1 taper	0169	417	01		001	0169	418	01		005
	M 12x1.5	0169	417	02		002	0169	418	02		006
	1/4" BSPP	0169	417	03		003	0169	418	03		007
	1/8" NPT	0169	417	04		004	0169	418	04		008
	1/4" NPT	0169	417	09		309	0169	418	09		310
	7/16 – 20 UNF	0169	417	20		301	0169	418	20		303
	9/16 – 18 UNF	0169	417	21		302	0169	418	21		304

0169 Piston pressure switches with spade terminals

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:					SPST-NC (normally closed) —› :|				
725 – 2175 (± 72.5)	M 10x1 taper	0169	419	01		009	0169	420	01		013
	M 12x1.5	0169	419	02		010	0169	420	02		014
	1/4" BSPP	0169	419	03		011	0169	420	03		015
	1/8" NPT	0169	419	04		012	0169	420	04		016
	1/4" NPT	0169	419	09		311	0169	420	09		312
	7/16 – 20 UNF	0169	419	20		305	0169	420	20		307
	9/16 – 18 UNF	0169	419	21		306	0169	420	21		308

Order number:
Add figure for diaphragm/seal material

		0169	XXX	XX	X	XXX	0169	XXX	XX	X	XXX
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=			1		=			1	
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=			2		=			2	
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=			3		=			3	
	See page 10 for temperature ranges of diaphragm / seal materials										

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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0167

Diaphragm pressure switches max 42 V

Brass body
With M3 screw or spade terminals
Overpressure safe to **290** psi [1)]

RoHS COMPLIANT

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:	SPST-NC (normally closed) —› :|

0167 Diaphragm pressure switches with screw terminals

1.45 – 14.5 (± 2.90)	M 10x1 taper	0167	401	01	001	0167	402	01	004
	1/8" BSPT	0167	401	12	002	0167	402	12	005
	1/2" BSPT	0167	401	07	003	0167	402	07	006
14.5 – 145 (± 7.25)	M 10x1 taper	0167	405	01	013	0167	406	01	016
	1/8" BSPT	0167	405	12	014	0167	406	12	017
	1/2" BSPT	0167	405	07	015	0167	406	07	018
145 – 290 (± 14.5)	M 10x1 taper	0167	409	01	025	0167	410	01	028
	1/8" BSPT	0167	409	12	026	0167	410	12	029
	1/2" BSPT	0167	409	07	027	0167	410	07	030

0167 Diaphragm pressure switches with spade terminals

1.45 – 14.5 (± 2.90)	M 10x1 taper	0167	403	01	007	0167	404	01	010
	1/8" BSPT	0167	403	12	008	0167	404	12	011
	1/2" BSPT	0167	403	07	009	0167	404	07	012
14.5 – 145 (± 7.25)	M 10x1 taper	0167	407	01	019	0167	408	01	022
	1/8" BSPT	0167	407	12	020	0167	408	12	023
	1/2" BSPT	0167	407	07	021	0167	408	07	024
145 – 290 (± 14.5)	M 10x1 taper	0167	411	01	031	0167	412	01	034
	1/8" BSPT	0167	411	12	032	0167	412	12	035
	1/2" BSPT	0167	411	07	033	0167	412	07	036

Order number:
Add figure for diaphragm/seal material

		0167	XXX	XX	**X**	XXX	**0167**	XXX	XX	**X**	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	= **1**	= **1**
EPDM	Water, hydrogen, acetylene, ozone, brake fluid etc.	= **2**	= **2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	= **3**	= **3**
	See page 10 for temperature ranges of diaphragm / seal materials		

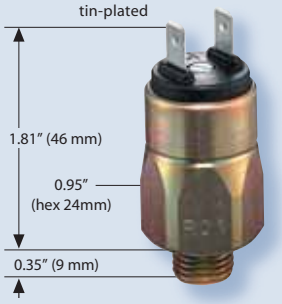
Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With male thread

AMP 0.25 x 0.03" (6.3 x 0.8 mm)
tin-plated



- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*
- *Accessories: see page 19*

info@suco-tech.com
330-722-1145
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0164

Diaphram pressure switch

Maximum voltage 42 V
Stainless steel body (AISI 303 / 1.4305)
Overpressure safe to 8700 psi [1)]

RoHS compliant

With male thread

- *Also available with set point preset at works*
- *Other body materials and connection threads on request*
- *Other diaphragm/seal materials e.g. HNBR, silicone on request.*
- *Thread 1/6" BSPP-E to IN 3852 with bonded seal*
- *Thread 1/8" BSPT and 1/6" BSPT to DIN 3858*

0164 Diaphragm pressure switch with screw terminals (M3)

Adjustment range (tolerance at room temperature)	Thread	normally open (no)					normally closed (nc)				
1.45 – 14.5 (± 2.9) PSI	1/8" BSPT	0164	401	12		001	0164	402	12		002
	1/4" BSPP-E	0164	401	41		001	0164	402	41		002
	1/4" BSPT	0164	401	46		001	0164	402	46		002
14.5 – 145 (± 7.25) PSI	1/8" BSPT	0164	405	12		005	0164	406	12		006
	1/4" BSPP-E	0164	405	41		005	0164	406	41		006
	1/4" BSPT	0164	405	46		005	0164	406	46		006
145 – 290 (± 14.5) PSI	1/8" BSPT	0164	409	12		009	0164	410	12		010
	1/4" BSPP-E	0164	409	41		009	0164	410	41		010
	1/4" BSPT	0164	409	46		009	0164	410	46		010
290 – 725 (± 29) PSI	1/8" BSPT	0164	413	12		013	0164	414	12		014
	1/4" BSPP-E	0164	413	41		013	0164	414	41		014
	1/4" BSPT	0164	413	46		013	0164	414	46		014

0164 Diaphragm pressure switch with spade terminals (AMP 6.3 x 0.8)

1.45 – 14.5 (± 2.9) PSI	1/8" BSPT	0164	403	12		003	0164	404	12		004
	1/4" BSPP-E	0164	403	41		003	0164	404	41		004
	1/4" BSPT	0164	403	46		003	0164	404	46		004
14.5 – 145 (± 7.25) PSI	1/8" BSPT	0164	407	12		007	0164	408	12		008
	1/4" BSPP-E	0164	407	41		007	0164	408	41		008
	1/4" BSPT	0164	407	46		007	0164	408	46		008
145 – 290 (± 14.5) PSI	1/8" BSPT	0164	411	12		011	0164	412	12		012
	1/4" BSPP-E	0164	411	41		011	0164	412	41		012
	1/4" BSPT	0164	411	46		011	0164	412	46		012
290 – 725 (± 29) PSI	1/8" BSPT	0164	415	12		015	0164	416	12		016
	1/4" BSPP-E	0164	415	41		015	0164	416	41		016
	1/4" BSPT	0164	415	46		015	0164	416	46		016

Order number Add figure for diaphragm/seal material

		0164	XXX	XX	X	XXX	0164	XXX	XX	X	XXX
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.				1	-22°F … +212°F	(-30°C … +100°C)			1	
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.				2	-22°F … +248°F	(-30°C … +120°C)			2	
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline etc.				3	23°F … +248°F	(-5°C … +120°C)			3	

Accessories:

Protective cap
with central cable gland
for 1.5-5 mm cable diameter

Not suitable for voltages above 42V!

Order number:
1-1-66-621-010

Protective cap
with two cable entries for
1.7-2.2 mm cable diameter

Not suitable for voltages above 42V!

Order number:
1-1-66-621-003

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 10 bar (145 PSI) is not exceeded.

1) Static value, dynamic value should be 30-50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65:
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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Pressure switches with integrated connector

SPST-NO (normally open) or SPST-NC (normally closed)

Maximum voltage 42 V

Technical Data

Max. voltage:	42 V
Current rating (resistive):	≤ 4 A
Switching capicity:	100 VA
Switching frequency:	200 / min.
Temperature stability for diaphragm/seal materials:	NBR (BunaN) -22 °F – +212 °F (-30 °C – +100 °C) EPDM -22 °F – +248 °F (-30 °C – +120 °C) FKM 23 °F – +248 °F (-5 °C – +120 °C) Silicone - 40 °F – +248 °F (-40 °C – +120 °C) HNBR -22 °F – +248 °F (-30 °C – +120 °C)
Mechanical life expectancy:	10^6 cycles (life expectancy of diaphragm pressure switches only for pressures up to max. 725 PSI)
Pressure rise rate:	≤ 14.5 PSI/ms
Vibration resistance:	10 g / 5 – 200 Hz sine wave
Shock resistance:	294 m/s ^{2}; 14 ms half sine wave
Degree of protection:	Up to IP67 / IP6K9k according manufacturer instruction for particular connector system only in plugged position otherwise IP00

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www.suco-tech.com

Diaphram pressure switches with integrated connector

Maximum voltage 42 V

Zinc plated steel body overpressure safe to 4350 psi

Order numbers diaphragm pressure switches:

	0110	0112	0114	0116	0118	0120	0122
	Deutsch DT04-2P	AMP Superseal	Packard MetriPack 280	Deutsch DT04-3P (A+B)	AMP Junior Timer	Bayonet DIN 72585 A1-2.1	M12x1 (1 + 3)
	IP67, IP6K9K	IP67	IP67	IP67, IP6K9K	IP65, IPx4K	IP67, IP6K9K	IP67
	x ≈ 2 13/16 "	**x ≈ 2 3/4"**	**x ≈ 2 13/16"**	**x ≈ 2 13/16"**	**x ≈ 2 7/16"**	**x ≈ 1 15/16"**	**x ≈ 2 6/16"**

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:				SPST-NC (normally closed) —› :|			
	M 10x1 taper	XXXX	403	01	009	XXXX	404	01	013
1.45 – 14.5 (± 2.90)	1/4" BSPP	XXXX	403	03	011	XXXX	404	03	015
	1/8" NPT	XXXX	403	04	012	XXXX	404	04	016
	1/4" NPT	XXXX	403	09	345	XXXX	404	09	346
	7/16 – 20 UNF	XXXX	403	20	305	XXXX	404	20	307
	9/16 – 18 UNF	XXXX	403	21	306	XXXX	404	21	308
14.5 – 145 (± 7.25)	M 10x1 taper	XXXX	407	01	025	XXXX	408	01	029
	1/4" BSPP	XXXX	407	03	027	XXXX	408	03	031
	1/8" NPT	XXXX	407	04	028	XXXX	408	04	032
	1/4" NPT	XXXX	407	09	349	XXXX	408	09	350
	7/16 – 20 UNF	XXXX	407	20	313	XXXX	408	20	315
	9/16 – 18 UNF	XXXX	407	21	314	XXXX	408	21	316
145 – 290 (± 14.50)	M 10x1 taper	XXXX	411	01	041	XXXX	412	01	045
	1/4" BSPP	XXXX	411	03	043	XXXX	412	03	047
	1/8" NPT	XXXX	411	04	044	XXXX	412	04	048
	1/4" NPT	XXXX	411	09	353	XXXX	412	09	354
	7/16 – 20 UNF	XXXX	411	20	321	XXXX	412	20	323
	9/16 – 18 UNF	XXXX	411	21	322	XXXX	412	21	324
290 – 725 (± 29.0)	M 10x1 taper	XXXX	415	01	057	XXXX	416	01	061
	1/4" BSPP	XXXX	415	03	059	XXXX	416	03	063
	1/8" NPT	XXXX	415	04	060	XXXX	416	04	064
	1/4" NPT	XXXX	415	09	357	XXXX	416	09	358
	7/16 – 20 UNF	XXXX	415	20	329	XXXX	416	20	331
	9/16 – 18 UNF	XXXX	415	21	330	XXXX	416	21	332

Order number: XXXX XXX XX [ ] XXX XXXX XXX XX [ ] XXX
Add figure for diaphragm/seal material

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2	=	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline etc.	=	3	=	3

See page 10 for temperature ranges of diaphragm / seal materials

- *Also available with switching point preset in our factory.*
- *Other body materials on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

Warning!

When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

info@suco-tech.com
330-722-1145
www.suco-tech.com

Piston pressure switches with integrated connector

Zinc plated steel body overpressure safe to 8700 psi

RoHS compliant

						
0111	0113	0115	0117	0119	0121	0123
Deutsch DT04-2P	AMP Superseal	Packard MetriPack 280	Deutsch DT04-3P (A+B)	AMP Junior Timer	Bayonet DIN 72585 A1-2.1	M12x1 (1 + 3)
IP67, IP6K9K	IP67	IP67	IP67, IP6K9K	IP65, IPx4K	IP67, IP6K9K	IP67
x ≈ 2 13/16 "	**x ≈ 2 3/4"**	**x ≈ 2 13/16"**	**x ≈ 2 13/16"**	**x ≈ 2 7/16"**	**x ≈ 1 15/16"**	**x ≈ 2 6/16"**

Adjustment range in psi (tolerance at room temperature)	Thread	SPST-NO (normally open) —› |:					SPST-NC (normally closed) —› :|				
725 – 2175 (± 72.5)	M 10x1 taper	XXXX	419	01		009	XXXX	420	01		013
	1/4" BSPP	XXXX	419	03		011	XXXX	420	03		015
	1/8" NPT	XXXX	419	04		012	XXXX	420	04		016
	1/4" NPT	XXXX	419	09		311	XXXX	420	09		312
	7/16 – 20 UNF	XXXX	419	20		305	XXXX	420	20		307
	9/16 – 18 UNF	XXXX	419	21		306	XXXX	420	21		308

Order number:
Add figure for diaphragm/seal material

		XXXX	XXX	XX	X	XXX	XXXX	XXX	XX	X	XXX
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=			1		=			1	
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=			2		=			2	
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline etc.	=			3		=			3	
	See page 10 for temperature ranges of diaphragm / seal materials										

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

1) Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

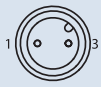
Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

Accessory mating connector (female): Cable length 6 1/2 ft

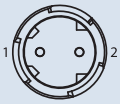
Deutsch DT04-2P	AMP-Superseal	Packard MetriPack 280	Deutsch DT04-3P	AMP Junior Timer	bayonet DIN 72585 A1-2.1	M12x1 DIN EN 61076-2-LF
						
Order number: 1-1-10-653-118	Order number: 1-1-12-653-113	Order number: 1-1-14-653-114	Order number: 1-1-16-653-115	Order number: 1-1-18-653-116	Order number: 1-1-20-653-112	Order number: 1-1-22-653-117

connector plug (male)

DT04-3P



M 12x1



Bayonet

- *Also available with switching point preset in our factory.*
- *Other body materials on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

info@suco-tech.com
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www.suco-tech.com

Accessories

for 0166, 0163, 0167, 0169 pressure switches

Protective cap

With central cable gland
for 0.06 - 0.20″ (1.5 - 5 mm) cable diameter
Not suitable for voltages above 42 V !
Order number: 1-1-66-621-010

Protective cap

With two cable entries
for 0.07 - 0.09″ (1.7 - 2.2 mm) cable diameter
Not suitable for voltages above 42 V !
Order number: 1-1-66-621-003

info@suco-tech.com
330-722-1145
www.suco-tech.com

Pressure Switches 1.06" (hex 27mm)

Snap action micro-switch with silver or gold contacts

- High-quality micro-switch for reliable switching
- Switching point easy to adjust [1)]
- Differential can be set in our factory [2)]
- Self-cleaning contacts for a long working life (only 250V versions)
- High overpressure safety
- Long working life under harsh operating conditions
- Connector plug or protective cap to protect against moisture and dirt, and thus easy replacement on site by service personnel
- Various thread connections available to suit your installation
- Ready-wired variants – see pages 34 – 37
- A choice of zinc-plated steel or stainless steel as body material and a selection of diaphragm materials ensure high resistance to media

[1)] Switches we have preset are secured with sealing paint and have the switching pressure stamped on their body.

[2)] Except for series 0140 / 0141

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330-722-1145
www.suco-tech.com

Technical Data

	Max. Voltage			Max. current						Body material		
	24 V	42 V	250 V	50 mA	2 A	4 A	Gold contacts	Silver contacts	Adjustable Differential	Zinc-plated steel	Stainless steel 1.4305	DIN valve connector
0140 *)			•		•			•		•		
0141 *)			•		•			•		•		
0170		•				•		•	•	•		
0171		•				•		•	•	•		
0180 *)			•			•		•	•	•		
0181 *)			•			•		•	•	•		
0183			•			•		•	•	•		
0184 *)			•			•		•	•	•		•
0185 *)			•			•		•	•	•		•
0186 *)			•			•		•	•		•	
0187 *)			•			•		•	•		•	
0190	•			•			•		•	•		
0191	•			•			•		•	•		
0196	•			•			•		•		•	
0197	•			•			•		•		•	

*) For further details of switching performance, see page 7

Technical Data

Degree of protection:	IP65 with suitable connector installed Terminals IP00		
Switching frequency:	200 / min.		
Temperature stability for diaphragm/seal materials:	NBR (BunaN)	-40 °F – +212 °F	(-40 °C – +100 °C)
	EPDM	-22 °F – +248 °F	(-30 °C – +120 °C)
	FKM	23 °F – +248 °F	(-5 °C – +120 °C)
	Silicone	-40 °F – +248 °F	(-40 °C – +120 °C)
	HNBR	-22 °F – +248 °F	(-30 °C – +120 °C)
Mechanical life expectancy:	10^6 cycles (life expectancy of diaphragm pressure switches only for pressures up to max. 725 psi)		
Vibration resistance:	10 g / 5 – 200 Hz sine-wave		
Shock resistance:	294 m/s^2; 14 ms half-sine-wave		
Switching performance:	see page 7		
Differential:	adjustable 10 – 30% (only at factory); type 0140/0141 not adjustable, standard value approx. 10 – 20%		
Max. ramp rate:	≤ 15 psi / ms		

CE Marking

Directives of the European Council

Machinery Directive, EMC Directive Low Voltage Directive ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO pressure switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/EC.

An EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalogue pages for the relevant switches carry the CE marking.

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www.suco-tech.com

CE

RoHS COMPLIANT

0140/0141

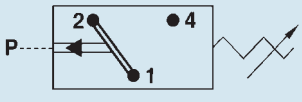
Diaphragm/piston pressure switches max 250 V

Zinc-plated steel body, with screw terminals
With snap action switch and silver contacts
Overpressure safe to **4350/8700** psi [1)]

• See page 7 for electrical properties

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Protection class 2, protective insulation* ⧈
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*



• *For further technical data, see page 21.*

0140 Diaphragm pressure switches with screw terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number	p max. in psi
4.35 – 21.75	± 2.9	1/4″ BSPP	0140 457 03 003	4350 [1)]
		1/8″ NPT	0140 457 04 300	
		1/4″ NPT	0140 457 09 305	
		7/16-20 UNF	0140 457 20 310	
		9/16-18 UNF	0140 457 21 315	
14.5 – 145	± 7.25	1/4″ BSPP	0140 458 03 006	
		1/8″ NPT	0140 458 04 301	
		1/4″ NPT	0140 458 09 306	
		7/16-20 UNF	0140 458 20 311	
		9/16-18 UNF	0140 458 21 316	
145 – 290	± 14.5	1/4″ BSPP	0140 459 03 009	
		1/8″ NPT	0140 459 04 302	
		1/4″ NPT	0140 459 09 307	
		7/16-20 UNF	0140 459 20 312	
		9/16-18 UNF	0140 459 21 317	
290 – 725	± 29	1/4″ BSPP	0140 461 03 012	
		1/8″ NPT	0140 461 04 303	
		1/4″ NPT	0140 461 09 308	
		7/16-20 UNF	0140 461 20 313	
		9/16-18 UNF	0140 461 21 318	

0141 Piston pressure switches with screw terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number	p max. in psi
725 – 2175	± 72.5	1/4″ BSPP	0141 460 03 003	8700 [1)]
		1/8″ NPT	0141 460 04 304	
		1/4″ NPT	0141 460 09 309	
		7/16-20 UNF	0141 460 20 314	
		9/16-18 UNF	0141 460 21 319	

Order number
Add figure for diaphragm/seal material

014X	XXX	XX	X	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 21 for temperature ranges of diaphragm/seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

info@suco-tech.com
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0170

Diaphragm pressure switches max 42 V

Zinc-plated steel body, with spade terminals
With snap action switch and silver contacts
Overpressure safe to **1450/4350** psi [1)]
Adjustable differential at factory

RoHS COMPLIANT

0170 Diaphragm pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
4.35 – 21.75	± 2.9	M 10x1 taper	0170	457	01		001	1450 [1)]
		1/4" BSPP	0170	457	03		003	
		1/8" NPT	0170	457	04		318	
		1/4" NPT	0170	457	09		314	
		7/16 – 20 UNF	0170	457	20		301	
		9/16 – 18 UNF	0170	457	21		302	
14.5 – 145	± 7.25	M 10x1 taper	0170	458	01		004	
		1/4" BSPP	0170	458	03		006	
		1/8" NPT	0170	458	04		319	
		1/4" NPT	0170	458	09		315	
		7/16 – 20 UNF	0170	458	20		303	
		9/16 – 18 UNF	0170	458	21		304	
14.5 – 145	± 7.25	M 10x1 taper	0170	458	01		040	4350 [1)]
		1/4" BSPP	0170	458	03		042	
		1/8" NPT	0170	458	04		343	
		1/4" NPT	0170	458	09		340	
		7/16 – 20 UNF	0170	458	20		341	
		9/16 – 18 UNF	0170	458	21		342	
145 – 725	± 43.5	M 10x1 taper	0170	459	01		007	
		1/4" BSPP	0170	459	03		009	
		1/8" NPT	0170	459	04		320	
		1/4" NPT	0170	459	09		316	
		7/16 – 20 UNF	0170	459	20		305	
		9/16 – 18 UNF	0170	459	21		306	
145 – 1450	± 43.5 – 72.5	M 10x1 taper	0170	461	01		010	
		1/4" BSPP	0170	461	03		012	
		1/8" NPT	0170	461	04		321	
		1/4" NPT	0170	461	09		317	
		7/16 – 20 UNF	0170	461	20		307	
		9/16 – 18 UNF	0170	461	21		308	

Order number
Add figure for diaphragm/seal material

			017X	XXX	XX	X XXX
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=				1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=				2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=				3
	See page 21 for temperature ranges of diaphragm/seal materials					

Warning!

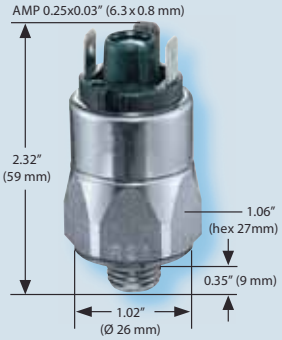
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With male thread



- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

- *Accessories: see page 33*

- *For further technical data, see page 21.*

info@suco-tech.com
330-722-1145
www.suco-tech.com

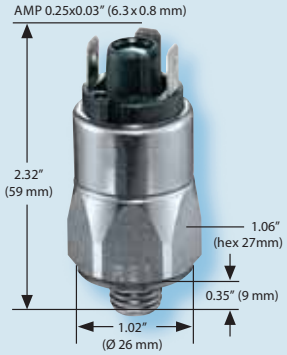
RoHS COMPLIANT

0171

Piston pressure switches max 42 V

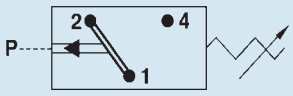
Zinc-plated steel body, with spade terminals
With snap action switch and silver contacts
Overpressure safe to **8700** psi [1)]
Adjustable differential at factory

With male thread



- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

- *Accessories: see page 33*



- *For further technical data, see page 21.*

0171 Piston pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
725 – 2900	± 72.5	M 10x1 taper	0171	460	01		001	8700
		1/4" BSPP	0171	460	03		003	
		1/8" NPT	0171	460	04		304	
		1/4" NPT	0171	460	09		303	
		7/16 – 20 UNF	0171	460	20		301	
		9/16 – 18 UNF	0171	460	21		302	

Order number
Add figure for diaphragm/seal material

0171 XXX XX **X** XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 21 for temperature ranges of diaphragm/seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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330-722-1145
www.suco-tech.com

0180

Diaphragm pressure switches max 250 V

Zinc-plated steel body, with spade terminals
With snap action switch and silver contacts
Overpressure safe to **1450/4350** psi [1)]
Adjustable differential at factory

- See page 7 for electrical properties

RoHS COMPLIANT

0180 Diaphragm pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
4.35 – 21.75	± 2.9	M 10x1 taper	0180	457	01		001	1450 [1)]
		1/4" BSPP	0180	457	03		003	
		1/8" NPT	0180	457	04		318	
		1/4" NPT	0180	457	09		314	
		7/16 – 20 UNF	0180	457	20		301	
		9/16 – 18 UNF	0180	457	21		302	
14.5 – 145	± 7.25	M 10x1 taper	0180	458	01		004	
		1/4" BSPP	0180	458	03		006	
		1/8" NPT	0180	458	04		319	
		1/4" NPT	0180	458	09		310	
		7/16 – 20 UNF	0180	458	20		303	
		9/16 – 18 UNF	0180	458	21		304	
14.5 – 145	± 7.25	M 10x1 taper	0180	458	01		040	4350 [1)]
		1/4" BSPP	0180	458	03		042	
		1/8" NPT	0180	458	04		343	
		1/4" NPT	0180	458	09		340	
		7/16 – 20 UNF	0180	458	20		341	
		9/16 – 18 UNF	0180	458	21		342	
145 – 725	± 43.5	M 10x1 taper	0180	459	01		007	
		1/4" BSPP	0180	459	03		009	
		1/8" NPT	0180	459	04		320	
		1/4" NPT	0180	459	09		311	
		7/16 – 20 UNF	0180	459	20		305	
		9/16 – 18 UNF	0180	459	21		306	
145 – 1450	± 72.5	M 10x1 taper	0180	461	01		010	
		1/4" BSPP	0180	461	03		012	
		1/8" NPT	0180	461	04		321	
		1/4" NPT	0180	461	09		312	
		7/16 – 20 UNF	0180	461	20		307	
		9/16 – 18 UNF	0180	461	21		308	

Order number
Add figure for diaphragm/seal material

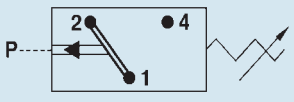
Order number			0180	XXX	XX	X	XXX
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=				1	
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=				2	
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=				3	

See page 21 for temperature ranges of diaphragm/seal materials

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

Accessories: see page 33



For further technical data, see page 21.

info@suco-tech.com
330-722-1145
www.suco-tech.com

RoHS COMPLIANT

0181

Piston pressure switches max 250 V

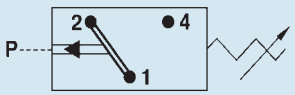
Zinc-plated steel body, with spade terminals
With snap action switch and silver contacts
Overpressure safe to **8700** psi [1)]
Adjustable differential at factory

• See page 7 for electrical properties

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

• *Accessories: see page 33*



• *For further technical data, see page 21.*

0181 Piston pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
725 – 2900	± 72.5	M 10x1 taper	0181	460	01		001	8700
		1/4" BSPP	0181	460	03		003	
		1/8" NPT	0181	460	04		304	
		1/4" NPT	0181	460	09		303	
		7/16 – 20 UNF	0181	460	20		301	
		9/16 – 18 UNF	0181	460	21		302	

Order number
Add figure for diaphragm/seal material

0181 XXX XX **X** XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	**1**
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	**2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	**3**
	See page 21 for temperature ranges of diaphragm/seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

info@suco-tech.com
330-722-1145
www.suco-tech.com

0183 SMALL SIZE. GREAT PERFORMANCE.

Piston pressure switch max 250 V

With snap action microswitch and silver contacts

- 2.4" instalation height
- Differential set at factory
- 1450 – 5800 psi adjustment range
- Overpressure safe to **8700** psi [1)]

CE

RoHS COMPLIANT

0183 Technical Data

Voltage	up to max. 250 V		
Current	max. 4 A		
Degree of protection	IP65 plugs IP00		
Switching frequency	200/min.		
Temperature stability for seal materials	NBR	-22 °F – +212 °F	(-30 °C – +100 °C)
	EPDM	-22 °F – +248 °F	(-30 °C – +120 °C)
	FKM	23 °F – +248 °F	(-5 °C – +120 °C)
Differential	10 – 30% adjustable at factory		
Mechanical life expectancy	10^6 cycles		
Body material	zinc plated steel (Fe//ZnNi(12)6//A/T2)		

0183 Piston pressure switch

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					$p_{max.}$ in psi
1450 – 4350	± 145.0	M 14 x 1.5	0183	462	10		051	8700 [1)]
2900 – 5800			0183	463	10		061	

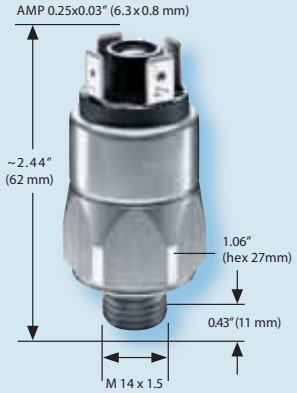
Order number 0183 XXX 10 X XXX
Add figure for seal material

NBR (BunaN)	Hydraulic/machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3

0183 Accessories

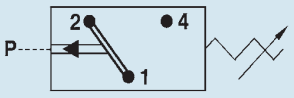
Adapter from M 14 x 1.5 to 1/4" BSPP	**Adapter** from M14 x 1.5 to M 12 x 1.5
	
Order number: 1-1-83-420-006	**Order number:** 1-1-83-420-007

Thread to ISO 6149-3
(included O-ring to match seal material)



- *Also available with switching point preset in our factory.*
- *Ready-wired variants on request.*
- *Other body materials and connection threads on request!*

Accessories: see page 33



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RoHS COMPLIANT

0184/0185

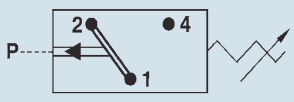
Diaphragm/piston pressure switches max 250 V

Zinc-plated steel body, with connector plug to DIN EN 175301 (DIN 43650)
With snap action switch and silver contacts
Overpressure safe to **1450/4350/8700** psi [1)]
Adjustable differential at factory

• See page 7 for electrical properties

With male thread

- *Also available with switching point preset in our factory.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*



• *For further technical data, see page 21.*

0184 Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
4.35 – 21.75	± 2.9	M 10 x 1 taper	0184	457	01		001	1450 [1)]
		M 12 x 1.5	0184	457	02		002	
		1/4" BSPP	0184	457	03		003	
14.5 – 145	± 7.25	M 10 x 1 taper	0184	458	01		040	4350 [1)]
		M 12 x 1.5	0184	458	02		041	
		1/4" BSPP	0184	458	03		042	
145 – 725	± 43.5	M 10 x 1 taper	0184	459	01		007	
		M 12x1.5	0184	459	02		008	
		1/4" BSPP	0184	459	03		009	
145 – 1450	± 43.5 – 72.5	M 10 x 1 taper	0184	461	01		010	
		M 12 x 1.5	0184	461	02		011	
		1/4" BSPP	0184	461	03		012	

0185 Piston pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
725 – 2900	± 72.5	M 10 x 1 taper	0185	460	01		001	8700 [1)]
		M 12 x 1.5	0185	460	02		002	
		1/4" BSPP	0185	460	03		003	

Order number
Add figure for diaphragm/seal material

018X	XXX	XX	X	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 21 for temperature ranges of diaphragm/seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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330-722-1145
www.suco-tech.com

0186/0187

Diaphragm/piston pressure switches max 250 V

Stainless steel (1.4305) body

With snap action switch and silver contacts
Max. voltage 250 V, overpressure safe to **4350/8700** psi [1)]
Adjustable differential at factory

• See page 7 for electrical properties

RoHS COMPLIANT

0186 Diaphragm pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
7.25 – 72.5	± 2.9	1/4" BSPP	0186	457	03		003	4350 [1)]
14.5 – 145	± 7.25		0186	458	03		006	
145 – 725	± 43.5		0186	459	03		009	
145 – 1450	± 43.5 – 72.5		0186	461	03		012	

0187 Piston pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
725 – 2900	± 72.5	1/4" BSPP	0187	460	03		003	8700 [1)]

Order number
Add figure for diaphragm/seal material

				018X	XXX	XX	X	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Water, hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 21 for temperature ranges of diaphragm/seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

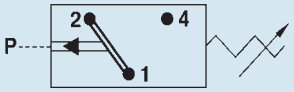
[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

• *Accessories: see page 33*



• *For further technical data, see page 21.*

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330-722-1145
www.suco-tech.com

0196/0197

Diaphragm/piston pressure switches max 24 V

Stainless steel (1.4305) body

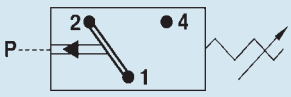
With snap action switch and gold contacts
Max. voltage 24 V
Overpressure safe to **4350/8700** psi [1)]
Adjustable differential at factory

RoHS COMPLIANT

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

- *Accessories: see page 33*



- *For further technical data, see page 21.*

0196 Diaphragm pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
7.25 – 72.5	± 2.9	1/4" BSPP	0196	457	03		003	4350 [1)]
14.5 – 145	± 7.25		0196	458	03		006	
145 – 725	± 43.5		0196	459	03		009	
145 – 1450	± 43.5 – 72.5		0196	461	03		012	

0197 Piston pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
725 – 2900	± 72.5	1/4" BSPP	0197	460	03		003	8700 [1)]

Order number
Add figure for diaphragm/seal material

019X	XXX	XX	X	XXX	

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Water, hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 21 for temperature ranges of diaphragm/seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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330-722-1145
www.suco-tech.com

0190

Diaphragm pressure switches max 24 V

Zinc-plated steel body, with spade terminals
With snap action switch and gold contacts
Overpressure safe to **1450/4350** psi [1)]
Adjustable differential at factory

RoHS COMPLIANT

0190 Diaphragm pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
4.35 – 21.75	± 2.9	M 10x1 taper	0190	457	01		001	1450 [1)]
		1/4" BSPP	0190	457	03		003	
		1/8" NPT	0190	457	04		318	
		1/4" NPT	0190	457	09		314	
		7/16 – 20 UNF	0190	457	20		301	
		9/16 – 18 UNF	0190	457	21		302	
14.5 – 145	± 7.25	M 10x1 taper	0190	458	01		004	
		1/4" BSPP	0190	458	03		006	
		1/8" NPT	0190	458	04		319	
		1/4" NPT	0190	458	09		315	
		7/16 – 20 UNF	0190	458	20		303	
		9/16 – 18 UNF	0190	458	21		304	
14.5 – 145	± 7.25	M 10x1 taper	0190	458	01		040	4350 [1)]
		1/4" BSPP	0190	458	03		042	
		1/8" NPT	0190	458	04		343	
		1/4" NPT	0190	458	09		340	
		7/16 – 20 UNF	0190	458	20		341	
		9/16 – 18 UNF	0190	458	21		342	
145 – 725	± 43.5	M 10x1 taper	0190	459	01		007	
		1/4" BSPP	0190	459	03		009	
		1/8" NPT	0190	459	04		320	
		1/4" NPT	0190	459	09		316	
		7/16 – 20 UNF	0190	459	20		305	
		9/16 – 18 UNF	0190	459	21		306	
145 – 1450	43.5 - 72.5	M 10x1 taper	0190	461	01		010	
		1/4" BSPP	0190	461	03		012	
		1/8" NPT	0190	461	04		321	
		1/4" NPT	0190	461	09		317	
		7/16 – 20 UNF	0190	461	20		307	
		9/16 – 18 UNF	0190	461	21		308	

Order number
Add figure for diaphragm/seal material

		0190	XXX	XX	X	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3

See page 21 for temperature ranges of diaphragm/seal materials

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

- *Accessories: see page 33*

- *For further technical data, see page 21.*

info@suco-tech.com
330-722-1145
www.suco-tech.com

0191

Piston pressure switches max 24 V

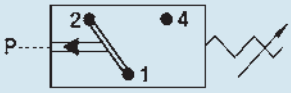
Zinc-plated steel body, with spade terminals
With snap action switch and gold contacts
Overpressure safe to **8700** psi [1)]
Adjustable differential at factory

RoHS COMPLIANT

With male thread

- *Also available with switching point preset in our factory.*
- *For ready-wired variants, see page 34 onwards.*
- *Other body materials and connection threads on request.*
- *Other diaphragm / seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

- *Accessories: see page 33*



- *For further technical data, see page 21.*

0191 Piston pressure switches with spade terminals

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					p max. in psi
725 – 2900	± 72.5	M 10x1 taper	0191	460	01		001	8700
		1/4" BSPP	0191	460	03		003	
		1/8" NPT	0191	460	04		304	
		1/4" NPT	0191	460	09		303	
		7/16 – 20 UNF	0191	460	20		301	
		9/16 – 18 UNF	0191	460	21		302	

Order number
Add figure for diaphragm/seal material

0191 XXX XX **X** XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	**1**
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	**2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	**3**
	See page 21 for temperature ranges of diaphragm/seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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330-722-1145
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Accessories

For key-size 1.06" (hex 27mm) pressure switches

Protective cap

With two cable entries
for 0.07 - 0.09" (1.7 - 2.3 mm) cable diameter
Not suitable for voltages above 42 V !

Order number: 1-1-70-621-007

Connector plug

Cable gland PG 9
clamping range 0.23 – 0.35" (6 – 9 mm)
Not suitable for voltages above 250 V !

Order number.: 1-1-80-652-002

Application matrix for accessories

Pressure switch range	Protective cap 1-1-70-621-007	Connector plug 1-1-80-652-002	Connector plug with indicator light to DIN EN 175301-803-A 24 VDC: 1-1-84-652-011 110 VAC on request
0170 / 0171	•	•	
0180 / 0181	• (up to max. 42 V)	•	
0183	• (up to max. 42 V)	•	
0184 / 0185			• (for 24 V and 250 V on request)
0186 / 0187	• (up to max. 42 V)	•	
0196 / 0197	•	•	

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330-722-1145
www.suco-tech.com

Ready-wired Pressure Switches

Applications

Our pressure switches mostly have a degree of protection IP65. This may not be adequate for all applications. Especially for commercial vehicles, mobile hydraulics, and similar applications where IP67 or IP6K9K may be required.

At SUCO any commercially-available connector system can be supplied ready-wired with a customer-specific cable length. This ensures great flexibility, and we can also supply small quantities without the need for expensive tooling.

The technical data of ready-wired pressure switch variants are substantially the same as those of the standard models. Differences in the technical data will be agreed with the customer and defined on a customer-specific drawing of the ready-wired pressure switch.

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330-722-1145
www.suco-tech.com

Pressure switches suitable for ready-wiring

are supplied with the switching point preset in our factory.
The switching point can not be changed subsequently.
It is therefore essential that the switching point is stated when the order is placed.

Pressure switch ranges suitable for ready-wiring

0263/0266
0267
0269

See pages 10 - 11
for technical data

0270/0271
0290/0291
0296/0297

See page 20 - 21
for technical data

A selection from the wide variety of plugs we can supply.

Plugs to DIN 72585
AMP JuniorTimer
Cannon plugs
AMP Superseal
Packard plugs (Weather Pack)
Packard plugs (Weather Pack)
Deutsch plugs (DT 06)
Deutsch plugs (DT 04 – 2P)
Deutsch plugs (DT 04 – 3P)

Further plugs and connectors available on request

We supply the type and length of cable you need

info@suco-tech.com
330-722-1145
www.suco-tech.com

0240/0241

Diaphragm/piston pressure switches

Depending on connection, suitable for 42 V or 250 V
With snap action switch and silver contacts
Overpressure safe to **4350/8700** psi[1)]

Technical Data

Voltage:	42 V / 250 V depending on connection
Current:	max. 2 A
Degree of protection:	IP67
Protection class:	2, protective insulation, ⧈
Switching frequency:	200 / min.
Differential:	10 – 20% not adjustable
Mechanical life expectancy:	10^6 cycles (at pressures up to 50 bar)
Materials:	body: zinc-plated steel protective cover: anodised aluminum
cable:	standard delivery 2 m with wire end sleeves
max. ramp rate:	≤ 15 psi / ms

info@suco-tech.com
330-722-1145
www.suco-tech.com

- Switching point can be adjusted after potting
- Degree of protection **IP67**

0240 Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					$p_{max.}$ in psi
4.35 – 21.75	± 2.9	1/4" BSPP	0240	457	03		003	4350 [1]
		NPT 1/8	0240	457	04		300	
		NPT 1/4	0240	457	09		305	
		7/16-20 UNF	0240	457	20		310	
		9/16-18 UNF	0240	457	21		315	
14.5 – 145	± 7.25	1/4" BSPP	0240	458	03		006	
		NPT 1/8	0240	458	04		301	
		NPT 1/4	0240	458	09		306	
		7/16-20 UNF	0240	458	20		311	
		9/16-18 UNF	0240	458	21		316	
145 – 290	± 14.5	1/4" BSPP	0240	459	03		009	
		NPT 1/8	0240	459	04		302	
		NPT 1/4	0240	459	09		307	
		7/16-20 UNF	0240	459	20		312	
		9/16-18 UNF	0240	459	21		317	
290 – 725	± 29.0	1/4" BSPP	0240	461	03		012	
		NPT 1/8	0240	461	04		303	
		NPT 1/4	0240	461	09		308	
		7/16-20 UNF	0240	461	20		313	
		9/16-18 UNF	0240	461	21		318	

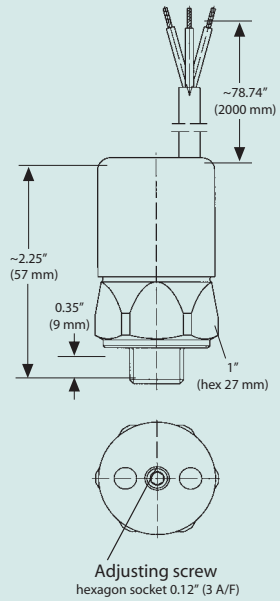
0241 Piston pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					$p_{max.}$ in psi
725 – 2175	± 72.5	1/4" BSPP	0241	460	03		003	8700 [1]
		NPT 1/8	0241	460	04		304	
		NPT 1/4	0241	460	09		309	
		7/16-20 UNF	0241	460	20		314	
		9/16-18 UNF	0241	460	21		319	

Order number:
Add figure for
diaphragm/seal material

			024X	XXX	XX	X	XXX

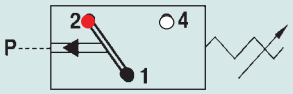
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 23 for temperature ranges of diaphragm / seal materials		



- *Options:*
  other cable lengths and connectors on request
  fixed, pre-set switching point
- *Other body materials and connection threads on request.*
- *Other diaphragm/seal materials on request, e.g. HNBR, silicone (last one for diaphragm type only).*

Contact assignment:

- 1 = black
- 2 = red
- 4 = white



Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

Piston-type pressure switches are only to a limited extent suitable for use with gases and oxygen. See explanation on page 5.

[1] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP67
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

info@suco-tech.com
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Pressure Switches 30 A/F

Snap action micro-switch

CE Marking

Directives of the European Council

Machinery Directive,
EMC Directive
Low Voltage Directive
ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO pressure switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/EC.

An EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalog pages for the relevant switches carry the CE marking.

CE

Technical data

Degree of protection:	IP65 valve connector fitted		
Switching frequency:	200 / min.		
Temperature stability for diaphragm/seal materials:	NBR (BunaN)	-40 °F – +212 °F	(-40 °C – +100 °C)
	EPDM	-22 °F – +248 °F	(-30 °C – +120 °C)
	FKM	23 °F – +248 °F	(-5 °C – +120 °C)
Mechanical life expectancy:	10^6 cycles (at pressures up to 725 psi)		
Vibration resistance:	10 g / 5–200 Hz sine-wave		
Shock resistance:	294 m/s^2; 14 ms half-sine-wave		
Body material:	AlMgSi1 F28		
Switching performance:	see page 7		
Differential:	Type 0159:	10 – 30 % (not adjustable)	
	Type 0161, 0162, 0175:	10 – 30 % (adjustable at factory)	

- Panel or manifold mounting for clear, maintenance-friendly installation
- Easily adjustable by user
- High-quality micro-switch for reliable switching
- High overpressure safety
- Connection plug for simple installation on site

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www.suco-tech.com

0159

Diaphragm/piston pressure switches max 250 V

Aluminum body
With snap action switch and silver contacts
Overpressure safe to **2900/8700** psi [1)]
Max. voltage 250 V

• See page 7 for electrical properties

• Switching point steplessly adjustable with switch in operating condition by turning knurled knob

0159 Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (room temperature)	p max. in psi	Thread	Order number				
2.9 – 29	± 2.9 – 4.35	2900 [1)]	1/4 " BSPP female	0159	426	14		001
7.25 – 72.5	± 2.9 – 7.25			0159	427	14		001
14.5 – 145	± 7.25			0159	428	14		001
29 – 290	± 14.5			0159	429	14		001
72.5 – 725	± 43.5			0159	430	14		001
145 – 1450	± 43.5 – 72.5			0159	431	14		001

0159 Piston pressure switches

Adjustment range in psi	Tolerance in psi (room temperature)	p max. in psi	Thread	Order number				
145 – 1450	± 43.5 – 72.5	8700 [1)]	1/4 " BSPP female	0159	432	14		001
362.5 – 3625	± 72.5 – 101.5			0159	433	14		001
580 – 5800	± 72.5 – 130.5			0159	434	14		001

Order number
Add figure for diaphragm/seal material

0159	XXX	XX	X	XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 38 for temperature ranges of diaphragm / seal materials		

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

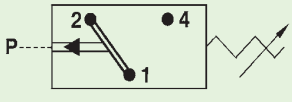
Piston-type pressure switches are only to a limited extent suitable for use with gases and oxygen. See explanation on page 5.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With female thread

• *Also available with switching point preset in our factory.*



• *For further technical data see page 38*

info@suco-tech.com
330-722-1145
www.suco-tech.com

0161/0162

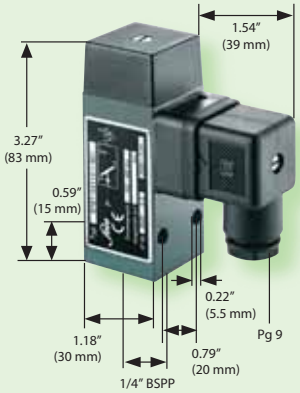
Diaphragm/piston pressure switches max 250 V

Aluminum body
With snap action switch and silver contacts
Max. voltage 250 V
Overpressure safe to **2900/8700** psi [1)]
With connector plug similar to DIN EN 175301 (DIN 43650)
Adjustable differential at factory

• See page 7 for electrical properties

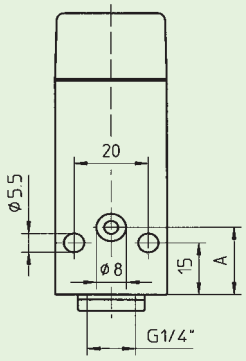
0161

With female thread

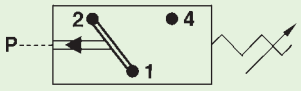


0162

Manifold mounting



• *Also available with switching point preset in our factory.*



• *For further technical data see page 38*

Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (room temperature)	Dim."A" in inch	$p_{max.}$ in psi	0161 1/4" BSPP female	0162 [2)] Manifold mounting
7.25 – 14.5	± 2.9	0.59"	2900 [1)]	0161 436 14 X 001	0162 436 14 X 001
7.25 – 72.5	± 2.9 – 7.25			0161 437 14 X 001	0162 437 14 X 001
14.5 – 145	± 7.25			0161 438 14 X 001	0162 438 14 X 001
145 – 725	± 43.5			0161 439 14 X 001	0162 439 14 X 001
725 – 1450	± 43.5 – 72.5			0161 440 14 X 001	0162 440 14 X 001

Piston pressure switches

Adjustment range in psi	Tolerance in psi (room temperature)	Dim."A" in inch	$p_{max.}$ in psi	0161 1/4" BSPP female	0162 [2)] Manifold mounting
1450 – 5800	± 72.5 – 130.5	0.77"	8700 [1)]	0161 441 14 X 001	0162 441 14 X 001

Order number
Add figure for diaphragm/ seal material

0161 XXX XX **X** XXX 0162 XXX XX **X** XXX

		0161	0162
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	= 1	= 1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	= 2	= 2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	= 3	= 3

See page 38 for temperature ranges of diaphragm/seal materials

[2)] 0162 Diaphragm pressure switches: scope of supply includes O-ring NBR 5 x 1.5

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0175

Diaphragm pressure switches max 250 V

Aluminum body
With snap action switch and silver contacts
Max. voltage 250 V
Overpressure safe to **362** psi[1)]
With connector plug similar to DIN EN 175301 (DIN 43650)
Adjustable differential at factory

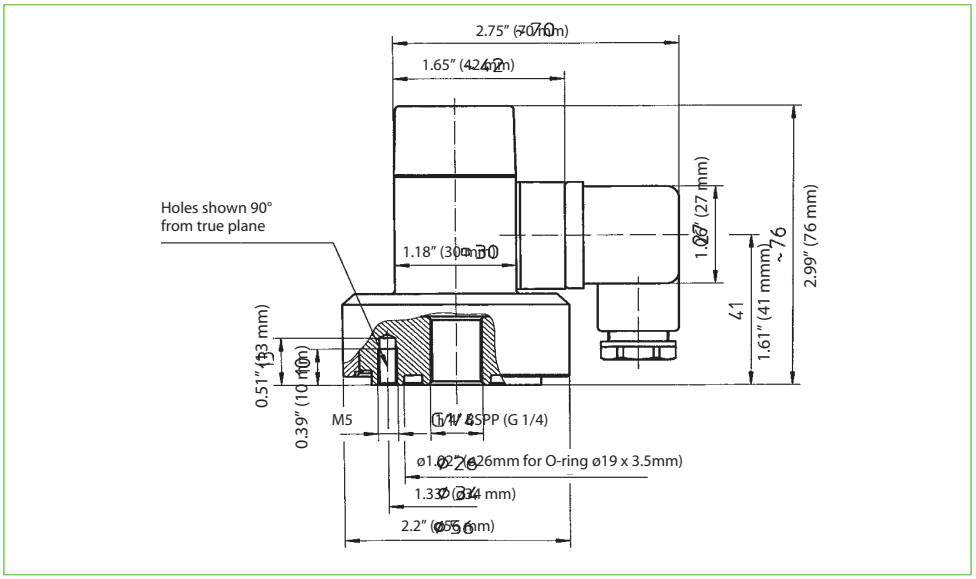
• See page 7 for electrical properties

0175 Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (room temperature)	$p_{max.}$ in psi	Thread	Order number				
1.45 – 14.5	± 1.45 – 2.9	362 [1)]	1/4" BSPP female	0175	435	14		001

Order number
Add figure for diaphragm/ seal material

		0175	XXX	XX	X	XXX
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.			=	1	
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.			=	2	
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.			=	3	
	See page 38 for temperature ranges of diaphragm/seal materials					



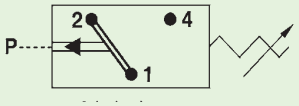
Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With female thread

• *Also available with switching point preset in our factory.*



• *For further technical data see page 38*

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330-722-1145
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Explosion-Protected Pressure Switches

To new ATEX standard

Technical data

	0165	0340	0341
Degree of protection:	IP65		
Protection zone:	1	22	22
Switching power:	1 A / 250 VAC 0.25 A / 250 VDC	2 A / 250 VAC	
Body material:	AlMgSi1 F28	Steel, zinc-plated Anodised aluminum	
Conductor cross-section:	3 x 0.75 mm^2	3 x 0.5 mm^2	
Switching frequency:	200 / min.		
Temperature range:	NBR, EPDM: -4 °F – +176 °F (-20 °C – +80 °C); FKM: +23 °F – +176 °F (-5 °C – +80 °C)		
Mechanical life expectancy:	10^6 cycles (at pressures up to 50 bar)		
Vibration resistance:	10 g / 5 – 200 Hz sine-wave		
Shock resistance:	294 m/s^2; 14 ms half-sine-wave		
Cable length:	standard delivery 2 m with wire end sleeves		
Differential:	10 – 30% (not adjustable)		

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www.suco-tech.com

Technical data

CE

- ATEX-certified for use in potentially-explosive atmospheres
- Compact design
- Micro-switch for reliable operation
- Switching point can be easily adjusted by user when switch is in operation

Explosion-protected pressure switches are classified by ATEX and approved according to the type of combustible material that may be expected where they are to be used.
The sub-divisions are:

Gases and vapors	Dusts	Methane dust

Our pressure switches are suitable for gases and vapors, or for dust according to type.
They are not suitable for use in methane dust (mining applications).

The table provides an overview of the sub-division into zones, equipment groups and equipment categories.

Conditions in locations with potentially-explosive atmosphere

Combustible material	Occurence of combustible material in location	Designation of location with specified hazard	Marking required on equipment to be used in the specified zone	
			Equipment group	Equipment category
Gases Vapors	Present continuously, for long periods or frequently	Zone 0	II	1G
	Occurs occasionally	Zone 1	II	2G or 1G
	Unlikely to occur, and then only seldom or for short periods	Zone 2	II	3G or 2G or 1G
Dusts	Present continuously, for long periods or frequently	Zone 20	II	1D
	Occurs occasionally	Zone 21	II	2D or 1D
	Occurs if accumulated dust is disturbed, and then only seldom or for short periods	Zone 22	II	3D or 2D or 1D
Methane Dust	–	Mining industry	I	M1
	–	Mining industry	I	M1 or M2

CE Marking

Directives of the European Council

Machinery Directive,
EMC Directive
Low Voltage Directive
ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO pressure switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/EC.

An EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalog pages for the relevant switches carry the CE marking.

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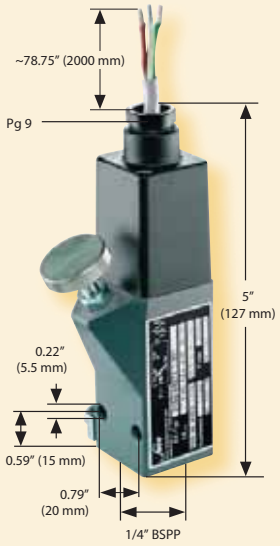
0165

Diaphragm/piston pressure switches 250 V

ATEX 0102 CE
II 2G EEx d II C T6 / T5 (gas-protected)

Aluminum body
With snap action microswitch
Max. voltage 250 V
Overpressure safe to **2900 / 8700** psi [1)]

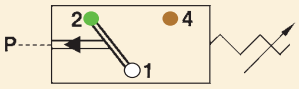
With female thread



- *Also available with switching point preset in our factory.*
- *Other cable lengths on request.*

Contact assignment:

○ 1 = white
● 2 = green
● 4 = brown



- *For further technical data, see page 43*

0165 Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (at room temp)	Thread	Order number					p max. in psi
14.5 – 87	± 7.25	1/4" BSPP female	0165	448	14		001	2900 [1)]
72.5 – 725	± 43.5	1/4" BSPP female	0165	449	14		001	

0165 Piston pressure switches

Adjustment range in psi	Tolerance in psi (at room temp)	Thread	Order number					p max. in psi
290 – 1450	± 43.5 – 72.5	1/4" BSPP female	0165	450	14		001	8700 [1)]
1450 – 5800	± 72.5 – 130.5	1/4" BSPP female	0165	451	14		001	

Order number
Add figure for diaphragm/seal material

0165 XXX XX **X** XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3

See page 42 for temperature ranges of diaphragm / seal materials

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

Piston-type pressure switches are only to a limited extent suitable for use with gases and oxygen. See explanation on page 5.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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330-722-1145
www.suco-tech.com

0340/0341

Diaphragm/piston pressure switches 250 V

ATEX CE
II 3D IP65 T90°C (dust-protected)

Zinc-plated steel body
With snap action switch
Max. voltage 250 V
Overpressure safe to **4350 / 8700** psi [1)]

0340 Diaphragm pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					$p_{max.}$ in psi
4.35 – 21.75	± 2.9	1/4″ BSPP	0340	457	03		003	4350 [1)]
14.5 – 145	± 7.25 – 14.5		0340	458	03		006	
145 – 290	± 14.5		0340	459	03		009	
290 – 725	± 29.0		0340	461	03		012	

0341 Piston pressure switches

Adjustment range in psi	Tolerance in psi (at room temperature)	Thread	Order number					$p_{max.}$ in psi
725 – 2175	± 72.5	1/4″ BSPP	0341	460	03		003	8700 [1)]

Order number
Add figure for diaphragm/seal material

034X XXX XX **X** XXX

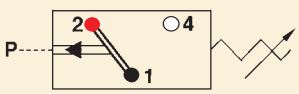
NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 42 for temperature ranges of diaphragm / seal materials		

With male thread

- *Also available with switching point preset in our factory.*
- *Other cable lengths on request.*

Contact assignment:

- 1 = black
- 2 = red
- 4 = white



- *For further technical data, see page 43*

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

Piston-type pressure switches are only to a limited extent suitable for use with gases and oxygen. See explanation on page 5.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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330-722-1145
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Vacuum Switches

Technical data

	0150	0151
Degree of protection:	IP65	
Switching power:	See page 7	100 VA
Max. voltage:	250 V	42 V
Temperature stability:	-4 °F – +212 °F (-20 °C – +100 °C)	23 °F – +248 °F (-5 °C – +120 °C)
Body material:	AlMgSi1 F28	Brass
Switching frequency:	200 / min.	
Mechanical life expectancy:	10^6 cycles (at pressures up to 290 psi)	
Vibration resistance:	10 g / 5– 200 Hz sine-wave	
Shock resistance:	294 m/s ^{2}; 14 ms half-sine-wave	
Max. ramp rate:	≤ 15 psi / ms	

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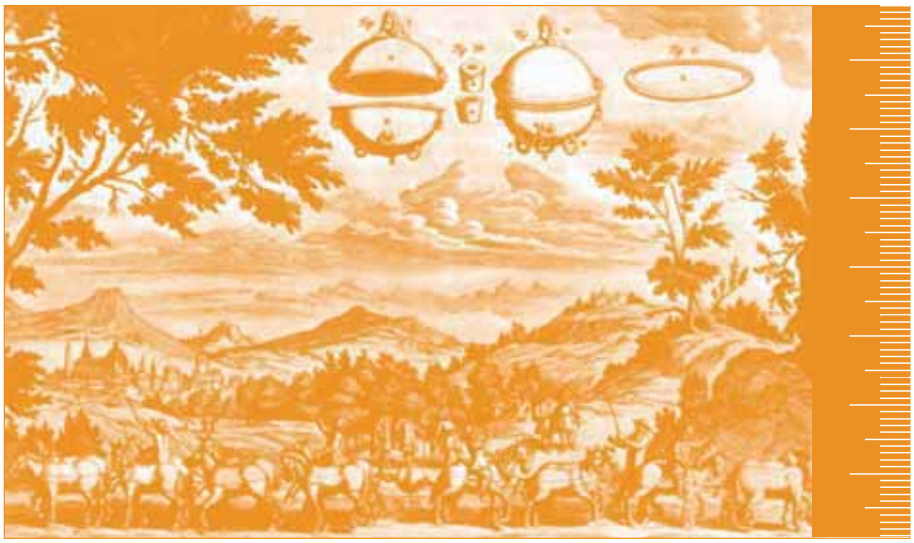
- Low-cost switch with high SUCO standard of quality
- Switching point easy to adjust
- High overpressure resistance and long working life even under harsh operating conditions
- Model 0150 with micro-switch for reliable switching
- Model 0150 with panel-mounting feature
- Model 0151 as normally open or normally closed

In 1656, the statesman and scientist Otto von Guericke devised the Magdeburg hemispheres. He used the air pump he had invented to create a vacuum within them and showed the magnitude of air pressure in a sensational public demonstration.



CE Marking

Directives of the European Council

Machinery Directive, EMC Directive Low Voltage Directive ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO vacuum switches are electrical equipment and therefore fall under the Low Voltage Directive 73/23/EC.

An EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalogue pages for the relevant switches carry the CE marking.

info@suco-tech.com
330-722-1145
www.suco-tech.com

0150

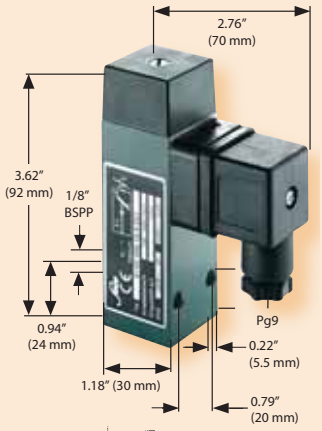
Vacuum switch 250 V

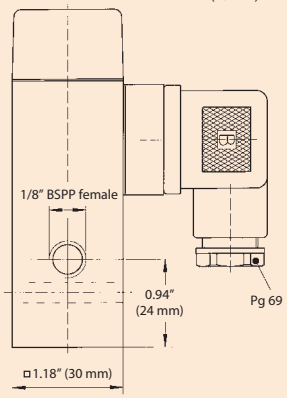
With built-in Snap action micro-switch

Aluminum body
Max. voltage 250 V
Overpressure safe to **290** psi [1)]
Differential ca. 1.5" – 3 Hg" (non-adjustable)

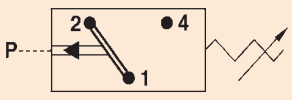
• See page 7 for electrical properties

With female thread





• *Also available with switching point preset in our factory.*



• *For further technical data, see page 46*

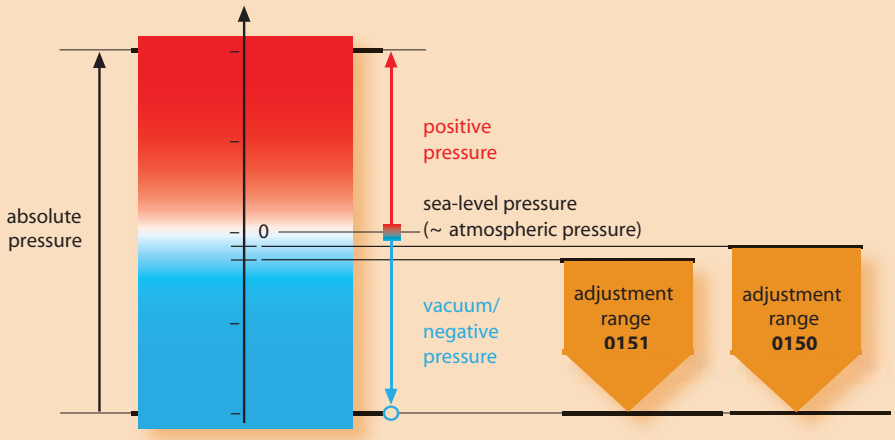
0150 Vacuum switch

Adjustment range in. Hg	Tolerance in. Hg (at room temperature)	Thread	Order number					$p_{max.}$ in psi
3" – 29"	± 1.5"	1/8" BSPP female	0150	456	15	4	001	290 [1)]

Diaphragm/seal material

ECO:	Air, oils, greases, fuels etc.	=	4
Temperature stability:	-22 °F – +248 °F	(-30 °C – +120 °C)	

Comparison absolute pressure / relative pressure



[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

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330-722-1145
www.suco-tech.com

0151

Vacuum switch 42 V

SPST-NO (normally open) or SPST-NC (normally closed)

Brass body
With M3 screw or spade terminals
Max. voltage 42 V
Overpressure safe to **290** psi [1)]

0151 Vacuum switch with screw terminals

Adjustment range in. Hg	Tolerance in. Hg (at room temp)	Thread	p max. in psi	SPST-NO (normally open) —› |:	SPST-NC (normally closed) —› :|
6.0" – 29"	± 3.0"	1/8" BSPP female	290 [1)]	0151 452 15 **3** 001	0151 453 15 **3** 001

0151 Vacuum switch with spade terminals

Adjustment range in. Hg	Tolerance in. Hg (at room temp)	Thread	p max. in psi	SPST-NO (normally open) —› |:	SPST-NC (normally closed) —› :|
6.0" – 29"	± 3.0"	1/8" BSPP female	290 [1)]	0151 454 15 **3** 001	0151 455 15 **3** 001

Diaphragm/seal material

FKM:	Air, oils, greases, fuels	=	**3**	=	**3**
Temperature stability:	23 °F – +248 °F (-5 °C – +120 °C)				

Accessories

Protective cap

With central cable gland
for 0.06 - 0.20" (1.5 - 5 mm) cable diameter
Order Number: 1-1-66-621-010
Not suitable for voltages above 42 V!

Protective cap

With two cable entries
for 0.07 - 0.09" (1.7 - 2.2 mm) cable diameter
Order Number: 1-1-66-621-003
Not suitable for voltages above 42 V!

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

With female thread

AMP 0.25 x 0.03" (6.3x0.8 mm)
tin-plated

- *Also available with switching point preset in our factory.*

- *For further technical data, see page 44*

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330-722-1145
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Electronic Pressure Switches

- Precision pressure sensors for high accuracy (0.5 % full scale)
- Electronic evaluation of switching point permits extremely small or very large differential settings
- Switching point easily set by the user

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www.suco-tech.com

Technical data for electronic pressure switches

	0520	0570
Switching function:	SPST-NO (normally open) / SPST-NC (normally closed)	SPST-NO / SPST-NC programmable, time-delayed switching, zero-resetting, peak-value memory (within setting range), switching-pointcounter
Differential:	2 – 95% programmable at our works (max. tolerance ± 1.0% full scale)	1 – 99% programmable using key-pad
Adjustment:	Switching point can be set on site by the customer using a screwdriver via setting potentiometer when operating voltage is applied	Programmable using key-pad on front face
Outputs:	Transistor output (1.4 A / PNP)	2 Transistor outputs (each 1.4 A / PNP) 1 analogue output (4–20 mA)
Indication of circuit status:	–	By 2 LEDs (yellow)
Time-delayed switching:	–	Adjustable 0 – 3.0 s
Pressure display:	–	Current pressure can be shown in bar or PSI on 3-digit LED-display (red)
Materials:	Zinc-plated steel body	Medium-contact parts anodised aluminum, body is zinc die-casting
Access coding:	–	The switch can have a number code between 1 and 999
Supply voltage:	18 – 36 VDC	12 – 30 VDC
Degree of protection:	IP65	
Switching time:	< 4 ms	
Accuracy:	±0.5 % (FS at room temperature)	
Temperature range:	NBR, EPDM: -4 °F – +176 °F (-20 °C – +80 °C); FKM: 23 °F – +176 °F (-5 °C – +80 °C)	
Temperature compensation:	-4 °F – +176 °F (-20 °C – +80 °C), error = 1.5% overall	
Temperature drift:	± 0.2% / 10 K	
Life expectancy:	5 x 10^6 cycles	
Vibration resistance:	10 g at 5 – 2000 Hz sine-wave	
Shock resistance:	294 m/s ^{2}, 14 ms half-sine-wave to DIN 40046	
EMC:	To EN 50081-1, EN 50081-2, EN 50082-2	

CE Marking

Directives of the European Council

Machinery Directive, EMC Directive Low Voltage Directive ATEX Directive

Equipment that falls under these directives must have a declaration of conformity and carry the CE marking.

SUCO electronic switches comply with the EMC Directive 89/336/EC.

An EC Declaration of Conformity has been prepared for all products that fall under these directives and is kept on our premises. The catalogue pages for the relevant switches carry the CE marking.

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330-722-1145
www.suco-tech.com

0520

Electronic pressure switches

Zinc-plated steel body
Ceramic sensor with thick film technology
Supply voltage 18 – 36 VDC
Overpressure safe to **290/2175/7250** psi [1)]
Differential programmable in our factory from 2 – 95%

• Simple, mechanical adjustment of switching point

With female thread

• *Also available with switching point preset in our factory.*

0520 Electronic pressure switches

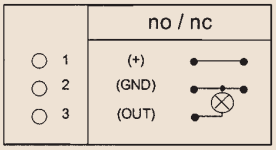
Adjustment range in psi	Differential [2)] in psi	Thread	$p_{max.}$ in psi	Burst pressure in psi	SPST-NO (normally open) —› |:	SPST-NC (normally closed) —› :|
0 – 145	7.25	1/4" BSPP female	290 [1)]	363	0520 470 14 ▯ 001	0520 471 14 ▯ 001
0 – 1450	72.5		2175 [1)]	2538	0520 472 14 ▯ 001	0520 473 14 ▯ 001
0 – 3625	145		7250 [1)]	8700	0520 474 14 ▯ 001	0520 475 14 ▯ 001

Order number
Add figure for diaphragm/seal material

0520 XXX XX **X** XXX 0520 XXX XX **X** XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	= **1**	= **1**
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	= **2**	= **2**
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	= **3**	= **3**

See page 51 for temperature ranges of diaphragm / seal materials



• *For further technical data, see page 51*

Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

[2)] Factory set, if no special customer request.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

info@suco-tech.com
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www.suco-tech.com

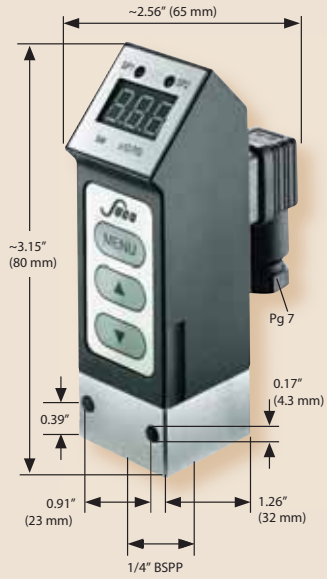
0570

Electronic pressure switches

Aluminum and zinc die-cast body
Ceramic sensor with thick film technology
Supply voltage 12 – 30 VDC
Overpressure safe to **290/2175/8700** psi [1)]
Programmable using key-pad on front face

- Time delayed switching (programmable)
- Peak-value memory (within setting range)
- Coding to prevent tampering

With female thread



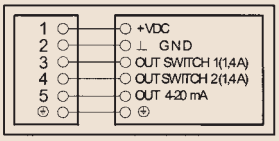
0570 Electronic pressure switches

Adjustment range in psi	Thread	$p_{max.}$ in psi	Burst pressure in psi	Order number
0 – 145	1/4" BSPP female	290 [1)]	363	0570 467 14 _ 001
0 – 1450		2175 [1)]	2538	0570 468 14 _ 001
0 – 5800		8700 [1)]	10,150	0570 469 14 _ 001

Order number
Add figure for diaphragm/seal material

0570 XXX XX **X** XXX

NBR (BunaN)	Hydraulic / machine oil, turpentine, heating oil, air etc.	=	1
EPDM	Hydrogen, acetylene, ozone, brake fluid etc.	=	2
FKM	Hydraulic fluids (HFA, HFB, HFC, HFD), petrol/gasoline etc.	=	3
	See page 51 for temperature ranges of diaphragm / seal materials		



Warning!
When using with oxygen, the relevant accident-prevention regulations must be observed. In addition, we recommend that a maximum operating pressure of 145 psi is not exceeded.

[1)] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

Degree of protection IP65
The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the connection complies with regulations other than those stated, and whether it can be used for special applications which could not be foreseen by us in advance.

• *For further technical data, see page 49*

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Pressure Transducers
Pressure Transmitters

- Silicon-on-Sapphire technology (SoS) for highest accuracy, reliability and safe process monitoring.
- High overpressure safety for use in mobile hydraulics.
- Long life even with high pressure rise rates.
- Wetted parts made of stainless steel and titanium to ensure problem-free medium compatibility.
- Welded diaphragm, no internal seals.
- Customized versions on request.
- There are many more options available than shown in this brochure.

SUCO TECHNOLOGIES INC.

Technical data

CE marking

SUCO pressure transducers / transmitters are covered by the EMV-directive 89/336/EC. An EC Declaration of Conformity has been issued for these pressure transducers / transmitters and is on file at our offices.

Degree of protection

The type approval does not apply without restriction to all environmental conditions. It is the responsibility of the user to check whether the electrical connection complies with regulations other than those stated and whether it can be used for special applications which could not be foreseen by us.

Oxygen warning!

Do not use for oxygen applications!

Type	**0705**	**0710**	**0720**
Output signal:	0.5 – 4.5 V radiometrically	0 – 10 V (3-wire)	4 – 20 mA (2-wire)
Supply voltage U_b:	5 VDC ± 10 % max. 6.5 VDC	12 – 32 VDC	10 – 32 VDC
Maximum load:	≥ 4.7 kΩ	≥ 4.7 kΩ	≤ (U_b – 10 V) / 20 mA
Accuracy:	±0.5 % full scale at room temperature		
Long term stability:	±0.1 % FS p. a.		
Repeatability:	±0.1 % FS		
Thermal error:	±0.01 % FS/ C°		
Compensated temperature range:	-40° F to +176° F (-40° C to +80° C)		
Temperature range ambient:	-40° F to +212° F (-40° C to +100° C)		
Temperature range media:	-40° F to +257° F (-40° C to +125° C)		
Mechanical life expectancy:	10^7 pulses up to p_{nom}		
Overload factor p_o [1] :	4xp_{nom}, static; over 8,700 psi = p_o : 23,925 psi (over 600 bar = p_o : 1,650 bar)		
Burst pressure [1] :	8xp_{nom}; static; over 5,800 psi = burst pressure : 29,000 psi (over 400 bar = burst pressure: 2,000 bar)		
Wetted part materials:	stainless steel 1.4305 / SAE Grade 303, titanium		
Maximum pressure rise rate:	< 72,500 psi/s (< 5.0 bar / ms)		
Response time 10 - 90% :	< 2 ms		
Resistance against vibrations:	20 g, 4 - 2000Hz DIN EN 60068-2-6		
Shock proof:	Half sine 500 m/s, 11 ms DIN EN 60068-2-29		
IP- protection class:	IP67 at M 12x1, DIN 72585 (Bayonet) IP65 at DIN EN 175301-803 and cable connection		
EMC:	EMV 89/336/EG, EN 61000-6-2, EN 61000-6-3		
Max. length of connection cable:	100 ft (ca. 30 m)		
Protection against reverse polarity, short-circuit and over voltage surges::	built-in		
Weight:	ca. 2.8 oz / 80 g (DIN 175301 ca. 3.9 oz / 110 g)		

[1] Static pressure, dynamic pressures should be 30 to 50% lower. These values refer to the hydraulic or pneumatic part of the pressure switch.

0705 / 0710 / 0720

Order matrix for Pressure Transducers / Transmitters

www.suco-tech.com

	Type	Pressure range	Pressure connection	Pressure Units	Electrical connection
Type	↓	↓	↓	↓	↓
0.5 – 4.5 V ratiometrically	**0705**				
0 – 10 V 3-wire	**0710**				
4 – 20 mA 2-wire	**0720**				

Pressure range

0 – 10 bar (0 - 145 PSI)	101
0 – 16 bar (0 - 232 PSI)	161
0 – 25 bar (0 - 362 PSI)	251
0 – 40 bar (0 - 580 PSI)	401
0 – 60 bar (0 - 870 PSI)	601
0 – 100 bar (0 - 1,450 PSI)	102
0 – 160 bar (0 - 2,320 PSI)	162
0 – 250 bar (0 - 3,620 PSI)	252
0 – 400 bar (0 - 5,800 PSI)	402
0 – 600 bar (0 - 8,700 PSI)	602

pressure connection

1/4” BSPP – DIN 3852-E	41
1/4” BSPP – DIN 3852-A	03
NPT 1/8	04
NPT 1/4	09
M 10x1 tap.	13
7/16-20 UNF	20
9/16-18 UNF	21
M 14x1.5 – DIN 3852-E	42

Pressure Units

bar	B
psi	P

Electrical connection

DIN EN 175301-803-A (DIN 43 650-A) Socket device included	001
M 12 – DIN EN 61071-2-101 D	002
DIN 72585-A1-4.1 (Bayonet)	004
Cable connection (length of cable 2 m / 78” standard)	011

Order number	**07XX**	**XXX**	**XX**	**X**	**XXX**

Abbreviation for unit	Pa = N/m²	bar	lbf/in², PSI
1 Pascal	1	0.00001	0.00014
1 bar	100,000	1	14.5
1 lbf/in², PSI	6894	0.06894	1

Accessories

(not included)

Socket device
M 12x1 straight

Order number:
1-6-00-652-016

Socket device
M 12x1 angular

Order number:
1-6-00-652-017

Oxygen warning!

Do not use for oxygen applications!

Suco TECHNOLOGIES INC.

0705 / 0710 / 0720

Technical explanations

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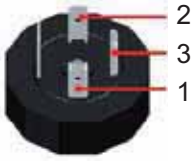
RoHS compliant

CE

DIN EN 175301-803-A



0705 + 0710	0720
1: U_{out}	1: nc
2: Gnd	2: I_{out}
3: Uv+	3: Uv+
x ~ 60 mm (without connector) x ~ 76 mm (with connector)	
d = ø 22 mm	
Order number: **001**	

M 12 – DIN EN 61071-2-101 D

0705 + 0710	0720
1: Uv+	1: Uv+
2: U_{out}	2: nc
3: Gnd	3: I_{out}
4: nc	4: nc
x ~ 54 mm	
d = ø 22 mm	
Order number: **002**	

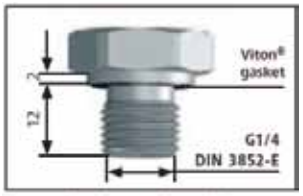
DIN 72585-A1-4.1

0705 + 0710	0720
1: Uv+	1: Uv+
2: Gnd	2: nc
3: U_{out}	3: I_{out}
4: nc	4: nc
x ~ 65 mm	
d = ø 22 mm	
Order number: **004**	

Cable connection

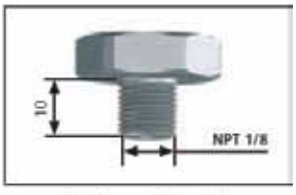
1: red
2: white
3: black

0705 + 0710	0720
1: Uv+	1: Uv+
2: Gnd	2: nc
3: U_{out}	3: I_{out}
x ~ 44 mm (+ 20 mm bend relief) length of cable ~ 2 m / 78”	
d = ø 22 mm	
Order number: **011**	



Order number: 41

Order number: 03



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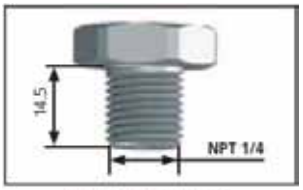

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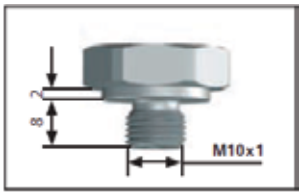

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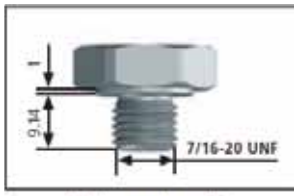

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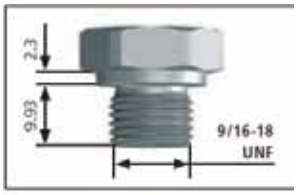

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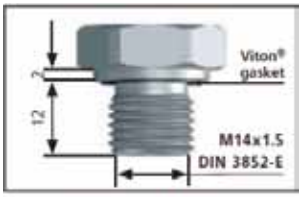

Order number: 42

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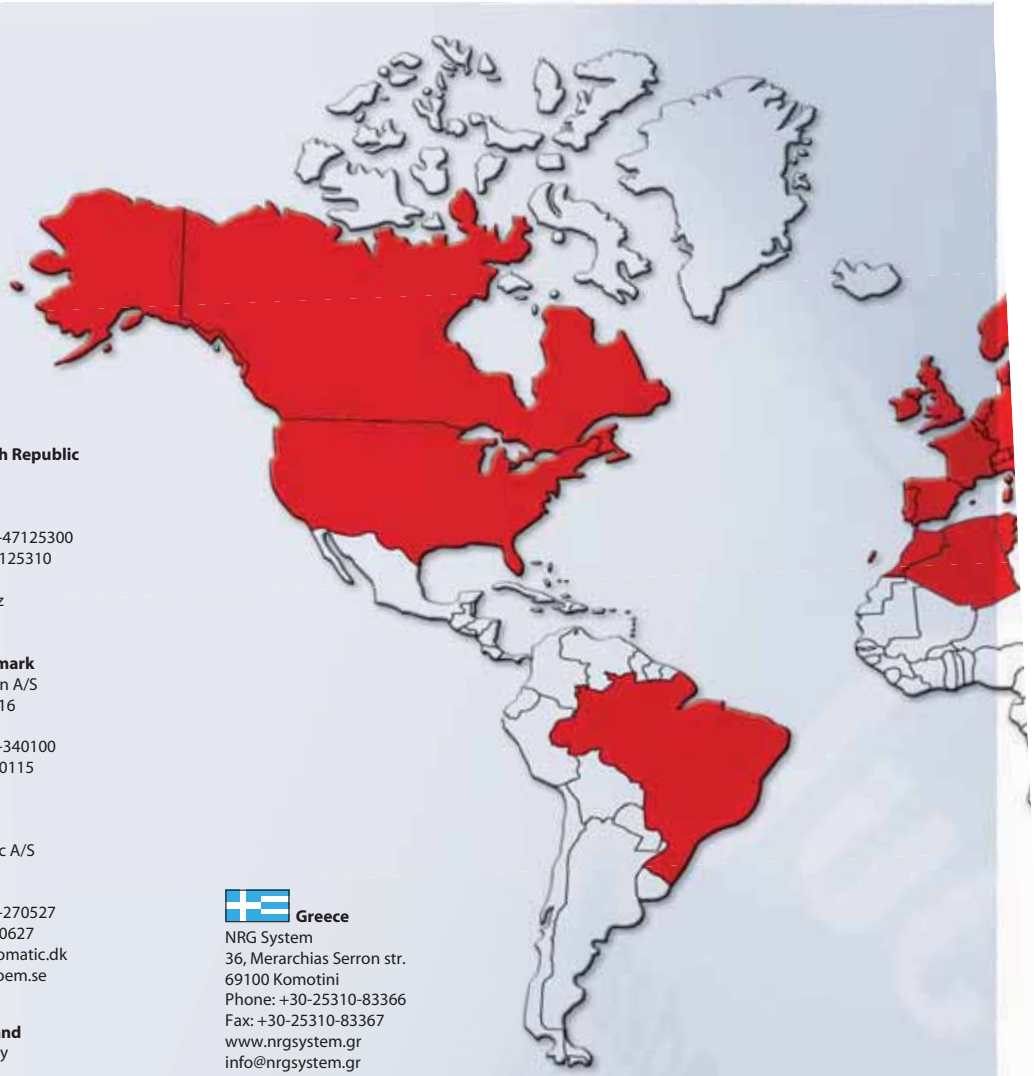

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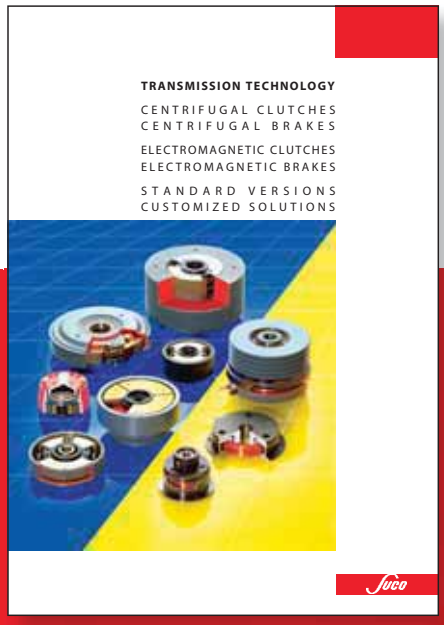

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