

Pressure switches hex 27

Changeover with silver or gold contacts



- Switching point can be adjusted when fitted on site¹⁾
- Factory adjustable hysteresis (except types 0140 and 0141)
- High overpressure safety and long service life under harsh conditions
- Operating voltage up to 250 V
- Series 0140 / 0141 with protective insulation
- For ready-wired customized versions refer to chapter M.5, starting at page 62
- For pressure switches with integrated connectors refer to chapter M.2, starting at page 32

¹⁾ Pressure switches can also be supplied preset at factory.
Our preset switches are sealed with lacquer paint, set points are embossed on the housing.

Pressure switches hex 27

Technical details

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Temperature resistance of sealing materials	NBR (max. overpressure up to 300/600 bar)	-40 °C ... +100 °C
	NBR (max. overpressure up to 100 bar) (in piston pressure switches)	-30 °C ... +100 °C
	EPDM	-30 °C ... +120 °C
	EPDM-TW (in diaphragm pressure switch)	-20 °C ... +100 °C
	FKM (in diaphragm pressure switch)	-5 °C ... +120 °C
	FKM (in piston pressure switch)	-15 °C ... +120 °C
	FFKM	-20 °C ... +120 °C
	Silicone (in diaphragm pressure switch)	-40 °C ... +120 °C
	HNBR	-30 °C ... +120 °C
Switching frequency	200 / min	
Mechanical life expectancy	1,000,000 cycles (for diaphragm pressure switches, life expectancy value only applies for switching pressures to max. 50 bar)	
Pressure rise rate	≤ 1 bar/ms	
Hysteresis (only adjustable at factory)	Adjustable average value 10 ... 30 % depending on type Types 0140 and 0141 cannot be adjusted	
Vibration resistance	10 g; 5 ... 200 Hz sine wave; DIN EN 60068-2-6	
Shock resistance	294 m/s ² ; 14 ms half sine wave; DIN EN 60068-2-6, DIN EN 60068-2-29	
Protection class	IP65 with socket device, terminals IP00	
Weight	approx. 100 g	

Switching performance and materials overview

Type	0140	0141	0170	0171	0180	0181	0183	0186	0187	0190	0191	0196	0197
5 ... 24 V DC										•	•	•	•
10 ... 42 V AC/DC			•	•									
10 ... 250 V AC/DC	•	•			•	•	•	•	•				
3 ... 50 mA										•	•	•	•
10 mA ... 2 A	•	•											
10 mA ... 4 A			•	•	•	•	•	•	•				
Gold contacts										•	•	•	•
Silver contacts	•	•	•	•	•	•	•	•	•				
Adjustable hysteresis			•	•	•	•	•	•	•	•	•	•	•
Zinc-plated steel (CrVI-free)	•	•	•	•	•	•	•			•	•		
Stainless steel 1.4305								•	•			•	•

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53

Pressure switches hex 27

Electrical values

0140 / 0141		
Rated working voltage U_e :	Rated working current I_e	Usage category ¹⁾
250 VAC 50 / 60 Hz	2 A	AC12
24 VDC	2 / 1 A	DC12 / DC13
50 VDC	1 / 0.5 A	DC12 / DC13
75 VDC	0.5 / 0.25 A	DC12 / DC13
125 VDC	0.2 / 0.1 A	DC12 / DC13
250 VDC	0.15 / 0.1 A	DC12 / DC13
Rated insulation voltage U_i :	300 V	
Rated impulse withstand voltage U_{imp} :	4 kV	
Conventional thermal current I_{the} :	5 A	
Switching overvoltage:	< 2.5 kV	
Rated frequency:	DC and 50 / 60 Hz	
Nominal current of short-circuit mechanism:	to 3.5 A	
Rated short-circuit current:	< 350 A	
IP class of protection according to DIN EN 60529:1991+A1:1999:	IP65 with connector	
Tightening torque of terminal screws:	< 0.35 Nm	
Connector cross-section:	0.5 - 1.5 mm ²	

0170 / 0171 / 0180 / 0181 / 0183 / 0186 / 0187 / 0190 / 0191 / 0196 / 0197		
Rated working voltage U_e :	Rated working current I_e	Usage category ¹⁾
250 VAC 50 / 60 Hz	4 A	AC12
250 VAC 50 / 60 Hz	1 A	AC14
24 VDC	4 / 2 A	DC12 / DC13
50 VDC	2 / 1 A	DC12 / DC13
75 VDC	1 / 0.5 A	DC12 / DC13
125 VDC	0.3 / 0.2 A	DC12 / DC13
250 VDC	0.25 / 0.2 A	DC12 / DC13
Rated insulation voltage U_i :	300 V	
Rated impulse withstand voltage U_{imp} :	2.5 kV	
Conventional thermal current I_{the} :	5 A	
Switching overvoltage:	< 2.5 kV	
Rated frequency:	DC and 50 / 60 Hz	
Nominal current of short-circuit mechanism:	to 5 A	
Rated short-circuit current:	< 350 A	
IP class of protection according to DIN EN 60529:1991+A1:1999:	IP65 with socket device, terminals IP00	

0140 / 0141

Diaphragm / piston pressure switches 250 V

- Protection class 2, protective insulation
- Zinc-plated steel (CrVI-free)
- Changeover with silver contacts
- Overpressure safety up to 300 / 600 bar¹⁾
- Includes polyamide cap, protection class IP65

p _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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0140 Diaphragm pressure switches with screw terminals

p _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number	
300 ¹⁾	0.3 - 1.5	± 0.2	G1/4	0140 - 457 03 - X - 003	
			NPT1/8	0140 - 457 04 - X - 300	
			NPT1/4	0140 - 457 09 - X - 305	
			7/16-20 UNF	0140 - 457 20 - X - 310	
				9/16-18 UNF	0140 - 457 21 - X - 315
	1 - 10	± 0.5	G1/4	0140 - 458 03 - X - 006	
			NPT1/8	0140 - 458 04 - X - 301	
			NPT1/4	0140 - 458 09 - X - 306	
			7/16-20 UNF	0140 - 458 20 - X - 311	
				9/16-18 UNF	0140 - 458 21 - X - 316
	10 - 20	± 1.0	G1/4	0140 - 459 03 - X - 009	
			NPT1/8	0140 - 459 04 - X - 302	
NPT1/4			0140 - 459 09 - X - 307		
7/16-20 UNF			0140 - 459 20 - X - 312		
			9/16-18 UNF	0140 - 459 21 - X - 317	
20 - 50	± 2.0	G1/4	0140 - 461 03 - X - 012		
		NPT1/8	0140 - 461 04 - X - 303		
		NPT1/4	0140 - 461 09 - X - 308		
		7/16-20 UNF	0140 - 461 20 - X - 313		
			9/16-18 UNF	0140 - 461 21 - X - 318	

0141 Piston pressure switches with screw terminals

p _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
600 ¹⁾	50 - 150	± 5.0	G1/4	0141 - 460 03 - X - 003
			NPT1/8	0141 - 460 04 - X - 304
			NPT1/4	0141 - 460 09 - X - 309
			7/16-20 UNF	0141 - 460 20 - X - 314
			9/16-18 UNF	0141 - 460 21 - X - 319

Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.

Article number: **014X - XXX XX - X - XXX**

¹⁾ Static value. Dynamic value is 30-50 % lower. Values pertain to the hydraulic/pneumatic part of the pressure switch.

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55

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0170 / 0171

Diaphragm / piston pressure switches up to 42 V

- Zinc-plated steel (CrVI-free)
- Changeover with silver contacts
- Overpressure safety up to 100 / 400 / 700 bar¹⁾
- Hysteresis adjustable at factory

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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0170 Diaphragm pressure switches with spade terminal

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
100 ¹⁾	0.3 - 1.5	± 0.2	G1/4	0170 - 457 03 - X - 003
			M10x1 con.	0170 - 457 01 - X - 001
			M12x1.5 cyl.	0170 - 457 02 - X - 002
			NPT1/8	0170 - 457 04 - X - 318
			NPT1/4	0170 - 457 09 - X - 314
			7/16-20 UNF	0170 - 457 20 - X - 301
			9/16-18 UNF	0170 - 457 21 - X - 302
	1 - 10	± 0.5	G1/4	0170 - 458 03 - X - 042
			M10x1 con.	0170 - 458 01 - X - 040
			M12x1.5 cyl.	0170 - 458 02 - X - 041
			NPT1/8	0170 - 458 04 - X - 343
			NPT1/4	0170 - 458 09 - X - 340
			7/16-20 UNF	0170 - 458 20 - X - 341
			9/16-18 UNF	0170 - 458 21 - X - 342
400 ¹⁾	10 - 50	± 3.0	G1/4	0170 - 459 03 - X - 009
			M10x1 con.	0170 - 459 01 - X - 007
			M12x1.5 cyl.	0170 - 459 02 - X - 008
			NPT1/8	0170 - 459 04 - X - 320
			NPT1/4	0170 - 459 09 - X - 316
			7/16-20 UNF	0170 - 459 20 - X - 305
			9/16-18 UNF	0170 - 459 21 - X - 306
	10 - 100	± 3.0 - 5.0	G1/4	0170 - 461 03 - X - 012
			M10x1 con.	0170 - 461 01 - X - 010
			M12x1.5 cyl.	0170 - 461 02 - X - 011
			NPT1/8	0170 - 461 04 - X - 321
			NPT1/4	0170 - 461 09 - X - 317
			7/16-20 UNF	0170 - 461 20 - X - 307
			9/16-18 UNF	0170 - 461 21 - X - 308

0171 Piston pressure switches with spade terminal

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
700 ¹⁾	50 - 200	± 5.0	G1/4	0171 - 460 03 - X - 003
			M10x1 con.	0171 - 460 01 - X - 001
			M12x1.5 cyl.	0171 - 460 02 - X - 002
			NPT1/8	0171 - 460 04 - X - 304
			NPT1/4	0171 - 460 09 - X - 303
			7/16-20 UNF	0171 - 460 20 - X - 301
			9/16-18 UNF	0171 - 460 21 - X - 302

Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
HNBR ²⁾	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.

 Article number: **017X – XXX XX – X – XXX**
¹⁾ Static value. Dynamic value is 30-50 % lower. Values pertain to the hydraulic/pneumatic part of the pressure switch.

²⁾ HNBR diaphragm not available for pressure ranges between 0.3 - 1.5 bar.

0180 / 0181

Diaphragm / piston pressure switches up to 250 V

- Zinc-plated steel (CrVI-free)
- Changeover with silver contacts
- Overpressure safety up to 100 / 400 / 700 bar¹⁾
- Hysteresis adjustable at factory

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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0180 Diaphragm pressure switches with spade terminal

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
100 ¹⁾	0.3 - 1.5	± 0.2	G1/4	0180 - 457 03 - X - 003
			M10x1 con.	0180 - 457 01 - X - 001
			M12x1.5 cyl.	0180 - 457 02 - X - 002
			NPT1/8	0180 - 457 04 - X - 318
			NPT1/4	0180 - 457 09 - X - 314
			7/16-20 UNF 9/16-18 UNF	0180 - 457 20 - X - 301 0180 - 457 21 - X - 302
400 ¹⁾	1 - 10	± 0.5	G1/4	0180 - 458 03 - X - 042
			M10x1 con.	0180 - 458 01 - X - 040
			M12x1.5 cyl.	0180 - 458 02 - X - 041
			NPT1/8	0180 - 458 04 - X - 343
			NPT1/4	0180 - 458 09 - X - 340
			7/16-20 UNF 9/16-18 UNF	0180 - 458 20 - X - 341 0180 - 458 21 - X - 342
	10 - 50	± 3.0	G1/4	0180 - 459 03 - X - 009
			M10x1 con.	0180 - 459 01 - X - 007
			M12x1.5 cyl.	0180 - 459 02 - X - 008
			NPT1/8	0180 - 459 04 - X - 320
			NPT1/4	0180 - 459 09 - X - 311
			7/16-20 UNF 9/16-18 UNF	0180 - 459 20 - X - 305 0180 - 459 21 - X - 306
10 - 100	± 3.0 - 5.0	G1/4	0180 - 461 03 - X - 012	
		M10x1 con.	0180 - 461 01 - X - 010	
		M12x1.5 cyl.	0180 - 461 02 - X - 011	
		NPT1/8	0180 - 461 04 - X - 321	
		NPT1/4	0180 - 461 09 - X - 312	
		7/16-20 UNF 9/16-18 UNF	0180 - 461 20 - X - 307 0180 - 461 21 - X - 308	

0181 Piston pressure switches with spade terminal

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
700 ¹⁾	50 - 200	± 5.0	G1/4	0181 - 460 03 - X - 003
			M10x1 con.	0181 - 460 01 - X - 001
			M12x1.5 cyl.	0181 - 460 02 - X - 002
			NPT1/8	0181 - 460 04 - X - 304
			NPT1/4	0181 - 460 09 - X - 303
			7/16-20 UNF 9/16-18 UNF	0181 - 460 20 - X - 301 0181 - 460 21 - X - 302

Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
HNBR ²⁾	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.

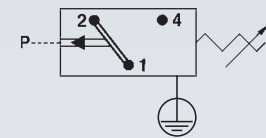
Article number: **018X – XXX XX – X – XXX**

¹⁾ Static value. Dynamic value is 30-50 % lower. Values pertain to the hydraulic/pneumatic part of the pressure switch.

²⁾ HNBR diaphragm not available for pressure ranges between 0.3 - 1.5 bar.

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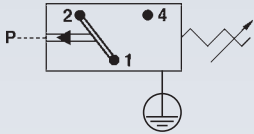
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Thread similar to ISO 6149-3
(including O-ring for sealing)



0183

Piston pressure switches up to 250 V

- Zinc-plated steel (CrVI-free)
- Changeover with silver contacts
- Overpressure safety up to 600 bar¹⁾, Hysteresis adjustable at factory
- Adjustment range: 100 – 400 bar
- Height only 51 mm

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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0183 Piston pressure switches with spade terminal

600 ¹⁾	100 - 300	± 10,0	M14x1.5	0183 - 462 45 - X - 051
	200 - 400		DIN 6149-3	0183 - 463 45 - X - 061

Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.

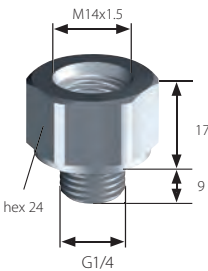
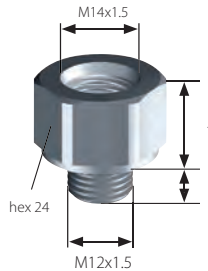
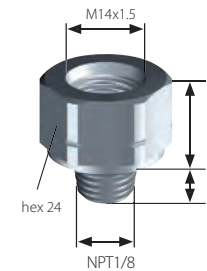
Article number: **0183 - 46X 45 - X - XXX**

Accessory ▶

Not included in the delivery.
Please order separately.

Article number ▶

Thread adapters

from M14 x 1.5		
to G1/4	to M12 x 1.5	to NPT1/8
		
1-1-83-420-006	1-1-83-420-007	1-1-83-420-008

0186 / 0187

Diaphragm / piston pressure switches up to 250 V with stainless steel housing

- Stainless steel housing (1.4305 / AISI 303)
- Changeover with silver contacts
- Overpressure safety up to 400 / 700 bar¹⁾ (EPDM-TW and silicone diaphragm up to 35 bar²⁾)
- Hysteresis adjustable at factory

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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0186 Diaphragm pressure switches with spade terminal

400 ¹⁾²⁾	0.5 - 5	± 0.3	G1/4	0186 - 457 03 - X - 003
	1 - 10	± 0.5		0186 - 458 03 - X - 006
	10 - 50	± 3.0		0186 - 459 03 - X - 009
	10 - 100	± 3.0 - 5.0		0186 - 461 03 - X - 012

0187 Piston pressure switches with spade terminal

700 ¹⁾	50 - 200	± 5.0	G1/4	0187 - 460 03 - X - 003
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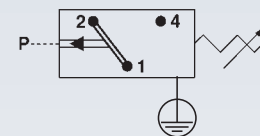
Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, water, hydrogen, oxygen, acetylene, etc.	2
EPDM-TW	Drinking water (p _{max} ≤ 35 bar)	5
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
Silicone	Water, food products, air, etc. (p _{max} ≤ 35 bar)	8
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.

Article number: **018X - XXX 03 - X - XXX**

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59



0190 / 0191

Diaphragm / piston pressure switches up to 24 V with gold contacts

- Zinc-plated steel (CrVI-free), with spade terminal
- Changeover with gold contacts
- Overpressure safety up to 100/300/600 bar¹⁾
- Hysteresis adjustable at factory

p _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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0190 Diaphragm pressure switches with spade terminal

100 ¹⁾	0.3 - 1.5	± 0.2	G1/4	0190 - 457 03 - X - 003
			M10x1 con.	0190 - 457 01 - X - 001
			M12x1.5 cyl.	0190 - 457 02 - X - 002
			NPT1/8	0190 - 457 04 - X - 318
			NPT1/4	0190 - 457 09 - X - 314
			7/16-20 UNF	0190 - 457 20 - X - 301
			9/16-18 UNF	0190 - 457 21 - X - 302

	1 - 10	± 0.5	G1/4	0190 - 458 03 - X - 042
			M10x1 con.	0190 - 458 01 - X - 040
			M12x1.5 cyl.	0190 - 458 02 - X - 041
			NPT1/8	0190 - 458 04 - X - 343
			NPT1/4	0190 - 458 09 - X - 340
			7/16-20 UNF	0190 - 458 20 - X - 341
			9/16-18 UNF	0190 - 458 21 - X - 342

400 ¹⁾	10 - 50	± 3.0	G1/4	0190 - 459 03 - X - 009
			M10x1 con.	0190 - 459 01 - X - 007
			M12x1.5 cyl.	0190 - 459 02 - X - 008
			NPT1/8	0190 - 459 04 - X - 320
			NPT1/4	0190 - 459 09 - X - 316
			7/16-20 UNF	0190 - 459 20 - X - 305
			9/16-18 UNF	0190 - 459 21 - X - 306

	10 - 100	± 3.0 - 5.0	G1/4	0190 - 461 03 - X - 012
			M10x1 con.	0190 - 461 01 - X - 010
			M12x1.5 cyl.	0190 - 461 02 - X - 011
			NPT1/8	0190 - 461 04 - X - 321
			NPT1/4	0190 - 461 09 - X - 317
			7/16-20 UNF	0190 - 461 20 - X - 307
			9/16-18 UNF	0190 - 461 21 - X - 308

0191 Piston pressure switches with spade terminal

700 ¹⁾	50 - 200	± 5.0	G1/4	0191 - 460 03 - X - 003
			M10x1 con.	0191 - 460 01 - X - 001
			M12x1.5 cyl.	0191 - 460 02 - X - 002
			NPT1/8	0191 - 460 04 - X - 304
			NPT1/4	0191 - 460 09 - X - 303
			7/16-20 UNF	0191 - 460 20 - X - 301
			9/16-18 UNF	0191 - 460 21 - X - 302

Seal material – Application areas

NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Brake fluid, water, hydrogen, oxygen, acetylene, etc.	2
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
HNBR ²⁾	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.



Article number: **019X - XXX XX - X - XXX**

¹⁾ Static value. Dynamic value is 30-50 % lower. Values pertain to the hydraulic/pneumatic part of the pressure switch.

²⁾ HNBR diaphragm not available for pressure ranges between 0.3 - 0.5 bar.



0196 / 0197

Diaphragm / piston pressure switches up to 24 V with stainless steel housing

- Stainless steel housing (1.4305 / AISI 303)
- Fitted with changeover contact and gold contacts
- Overpressure safety up to 400 / 700 bar¹⁾
(EPDM-TW and silicone diaphragm up to 35 bar²⁾)
- Hysteresis adjustable at factory

P _{max} in bar	Adjustment range in bar	Tolerance at room temperature in bar	Male thread	Article number
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0196 Diaphragm pressure switches with spade terminal

400 ¹⁾²⁾	0.5 - 5	± 0.3	G1/4	0196 - 457 03 - X - 003
	1 - 10	± 0.5		0196 - 458 03 - X - 006
	10 - 50	± 3.0		0196 - 459 03 - X - 009
	10 - 100	± 3.0 - 5.0		0196 - 461 03 - X - 012

0197 Piston pressure switches with spade terminal

700 ¹⁾	50 - 200	± 5.0	G1/4	0197 - 460 03 - X - 003
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Seal material – Application areas

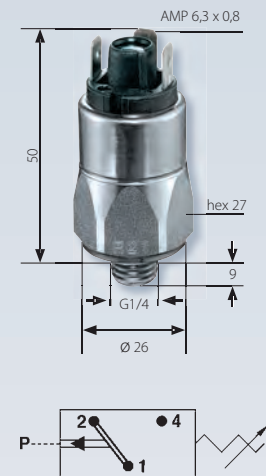
NBR	Hydraulic/machine oil, heating oil, air, nitrogen, etc.	1
EPDM	Water, Brake fluid, hydrogen, oxygen, acetylene, etc.	2
EPDM-TW	Drinking water (p _{max} ≤ 35 bar)	5
FKM	Hydraulic fluids (HFA, HFB, HFD), petrol/gasoline, etc.	3
FFKM	Chemical acids, diluted alkalis, ketones, ester's, alcohols	6
Silicone	Water, food products, air, etc. (p _{max} ≤ 35 bar)	8
HNBR	Hydraulic/machine oil, ester-based bio-oils	9

Refer to page 53 for the temperature range and application thresholds of sealing materials.

Article number: **019X – XXX 03 – X – XXX**

M.4
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¹⁾ Static value. Dynamic value is 30-50 % lower. Values pertain to the hydraulic/pneumatic part of the pressure switch.

²⁾ Overpressure safety of diaphragm pressure switch up to 600 bar. Functional reliability only up to 35 bar with diaphragm materials EPDM-TW and silicone.

