

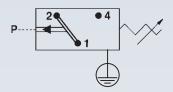
M.4

hex 27

hidra[matic]

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

AMP 6.3 x 0.8 hex 27



M14x1.5





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.} Adjustment Tolerance in bar at room temperature	Male thread	Order number
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0183 Piston pressure switches with spade terminal

600 ¹⁾	100 – 300	1.10.0	M 14x1.5	0183 - 462 45 - X - 051
000 /	200 – 400	± 10.0	DIN 6149-3	0183 - 462 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.

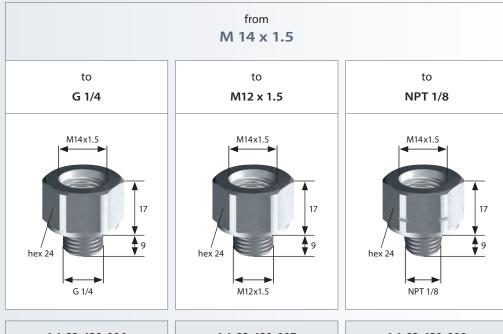
Your order number: 0183 – 462 45 – X – XXX

Accessory >

Not included in the delivery.

Please order separately.

Thread adapters



Order number

1-1-83-420-006

1-1-83-420-007

1-1-83-420-008

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



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Pressure switches hex 27

Changeover with silver or gold contacts





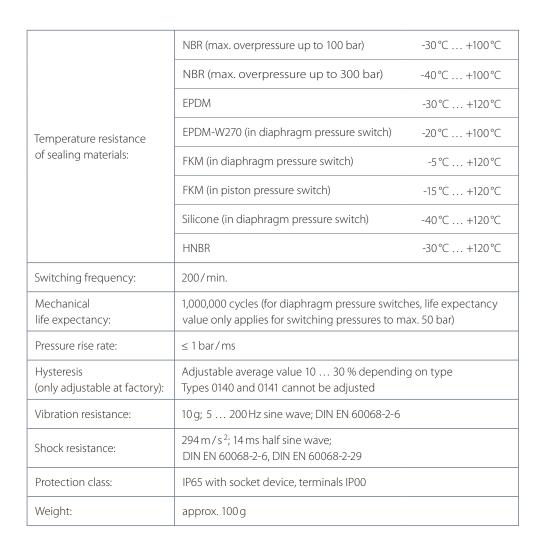
- Switching point can be adjusted when fitted on site 1)
- Factory adjustable hysteresis (except types 0140 and 0141)
- High overpressure safety and long service life under harsh conditions
- Operating voltage up to 250 V
- Series 0140 / 0141 with protective insulation
- For ready-wired customized versions refer to chapter M.5, starting at page 62
- For pressure switches with integrated connectors refer to chapter M.2, starting at page 32

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

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Pressure switches hex 27

Technical data



Switching performance and materials overview

Туре	0140	0141	0170	0171	0180	0181	0183	0186	0187	0190	0191	0196	0197
5 24 VDC										•	•	•	•
10 42 VAC/DC			•	•									
10 250 VAC/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								•	•			•	•

M.4

hex 27







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hex 27



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	AC 12
24 VDC	2/1 A	DC 12 / DC 13
50 VDC	1/0.5 A	DC 12 / DC 13
75 VDC	0.5/0.25 A	DC 12 / DC 13
125 VDC	0.2/0.1 A	DC 12 / DC 13
250 VDC	0.15/0.1 A	DC 12 / DC 13
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 EN60529:1991+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 / 019	7
Rated working voltage U _e	Rated working current l _e	Usage category ¹⁾
250 VAC 50 / 60 Hz	4 A	AC 12
250 VAC 50 / 60 Hz	1 A	AC 14
24 VDC	4/2 A	DC 12 / DC 13
50 VDC	2/1 A	DC 12 / DC 13
75 VDC	1/0.5 A	DC 12 / DC 13
125 VDC	0.3/0.2 A	DC 12 / DC 13
250 VDC	0.25/0.2 A	DC 12 / DC 13
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-Protection class nach EN60529:1991+A1:1999:	IP65 with connector	

 $^{^{1)}}$ For technical explanations refer to page 9