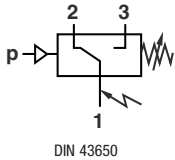




Herion 18D

Hydraulic pressure switches (piston type)

70 to 6100 psi psi



- Adjustable setpoint
- Gold-plated contacts
- Vibration resistant to 15 g
- Microswitch approved by UL and CSA

Technical data

- Medium
 - Hydraulics, lubricating and light fuel oils
- Operation
 - Piston
- Mounting position
 - Optional
- Operating pressure
 - 70 to 6100 psi
- Over pressure
 - 5800 psi,
 - 08824xx: 8700 psi
- Ambient temperature
 - 4°F to 175°F (-20°C to + 80°C)
- Viscosity
 - Up to 1000 mm²/s (±450 ssu).
- Fluid temperature
 - 4°F to 175°F (-20°C to +80°C)
- Repeatability
 - ±3%
- Electrical connection
 - DIN 43 650
- Switching element
 - Microswitch
- Degree of protection
 - IP 65
- Weight
 - .2 lbs (0.2 kg)
- Materials
 - Housing aluminum
 - Port: stainless steel
 - Seals: Teflon/Buna-N



Model numbers - hydraulic applications

Port Size	Type	Pressure Range psi (bar)	Switching Pressure Difference (Hysteresis)*		Model	Dimension Drawing No.
			psi (bar) Lower Range	psi (bar) Upper Range		
-	flange	70 – 1015 (5 – 70)	152 (10.5)	218 (15)	0883100	2
7/16-20 UNF	female	70 – 1015 (5 – 70)	152 (10.5)	218 (15)	0882119	1
1/4 NPT	female	70 – 1015 (5 – 70)	152 (10.5)	218 (15)	0882120	1
-	flange	150 – 2320 (10 – 160)	160 (11)	247 (17)	0883200	2
7/16-20 UNF	female	150 – 2320 (10 – 160)	160 (11)	247 (17)	0882219	1
1/4 NPT	female	150 – 2320 (10 – 160)	160 (11)	247 (17)	0882220	1
-	flange	360 – 3600 (25 – 250)	160 (11)	247 (17)	0883300	2
7/16-20 UNF	female	360 – 3600 (25 – 250)	160 (11)	247 (17)	0882319	1
1/4 NPT	female	360 – 3600 (25 – 250)	160 (11)	247 (17)	0882320	1
-	flange	580 – 6100 (40 – 420)	247 (17)	508 (35)	0883400	2
7/16-20 UNF	female	580 – 6100 (40 – 420)	247 (17)	508 (35)	0882419	1
1/4 NPT	female	580 – 6100 (40 – 420)	247 (17)	508 (35)	0882420	1

Note: Switches are supplied with DIN 43650 mating connector

* Switching pressure difference (hysteresis) is not adjustable. Maximum values are shown.

Herion 18D

Hydraulic pressure switches

Vac - 435 psi

Making And/Or Breaking Capacity

Load Level*	Type of Current	Type of Load	Vmin [V]	Maximum Permanent Current Imax [A] at V			Contact life	
				24 V	125 V	250 V	electrical at Imax	mechanical at I = 0
Standard (relays, solenoids)	AC	Resistive	12	5	5	5	5 x 10 ⁴ switching cycles	approx 10 ⁷ switching cycles
	AC	Inductive PF = .7	12	3	3	3		
	DC	Resistive	12	5	.4	-		
	DC	Inductive L/R = 10 ms	12	3	.05	-		
Low (electronic circuits)	AC	Resistive	5	.34	.08	.04	2 x 10 ⁵ switching cycles	approx 10 ⁷ switching cycles
	DC	Inductive L/R = 10 ms	5	.1	-	-		

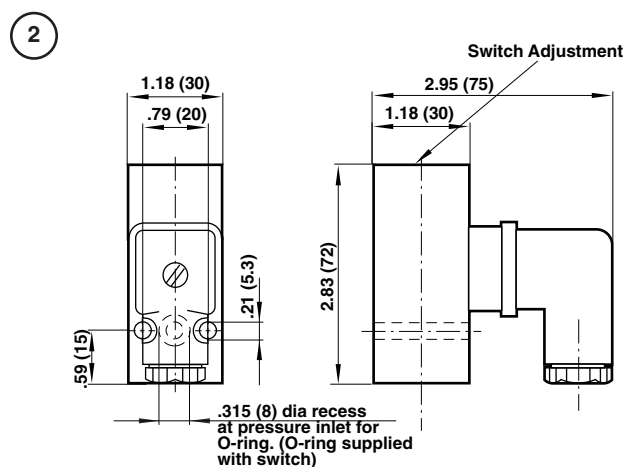
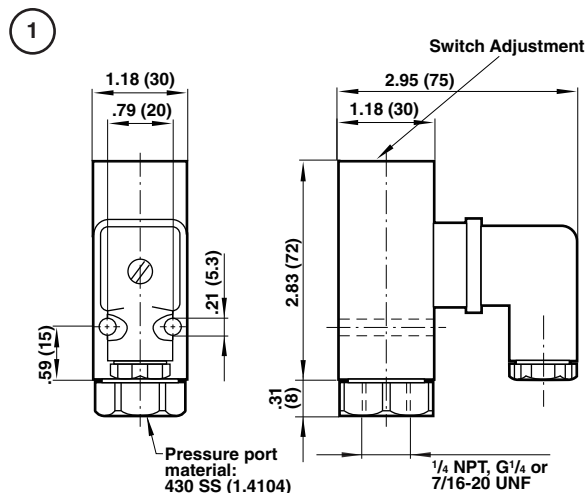
*Load Level Explanation

Series 18D Pressure Switches have microswitch contacts with gold-plating over silver base metal. The gold plating remains intact when "low level" voltage / current levels are observed. This feature assures highly reliable switching in low-level electronic circuits.

Standard applications do not require the gold plating – which will decay naturally when switching larger electrical loads.

Notes:

1. Reference conditions: 30 cycles per min and 86°F (30°C) ambient.
2. Reducing load current to 50% of I max approximately doubles contact life.
3. Creepage and clearance distances correspond to insulation group B per VDE Reg. 0110 (except contact clearance of microswitch).



Protective Cover

An optional elastomer cover for protection of the switch adjustment against dirt and splashing liquids Part No. 0554737

