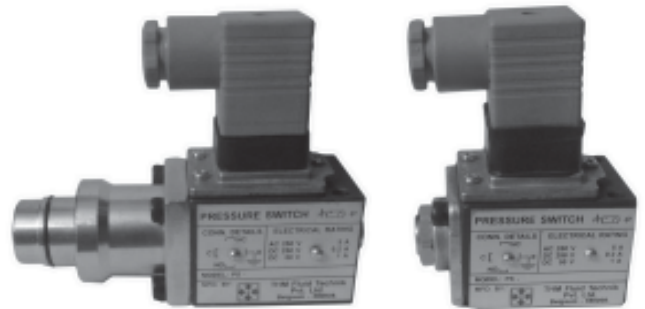
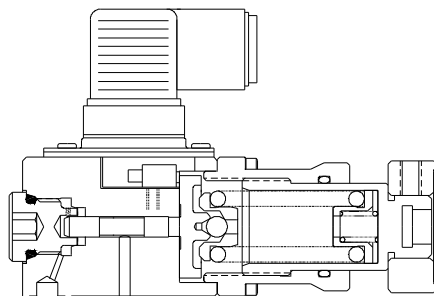


Description

Non adjustable differential type. Spring loaded sealed piston construction. Encapsulated design for protection against dust. Six pressure ranges available, which can be adjustable upto 10, 50, 100, 200, 350 and 420 bar. Transparent plug-in connector is available with LED

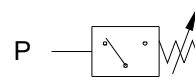


Section



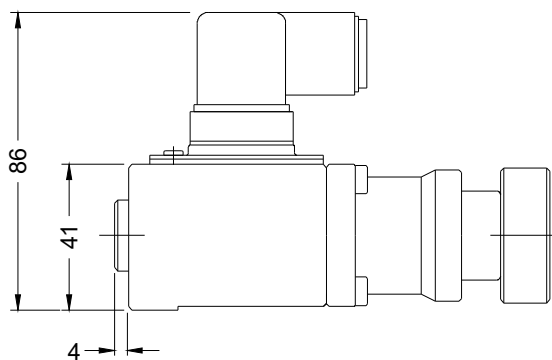
P Model : 1PS

Hydraulic Symbol



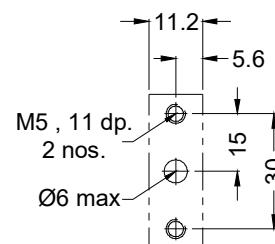
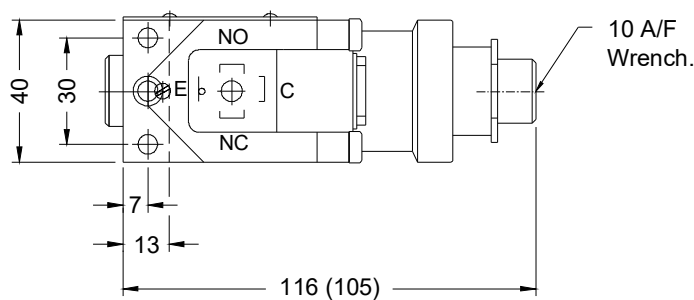
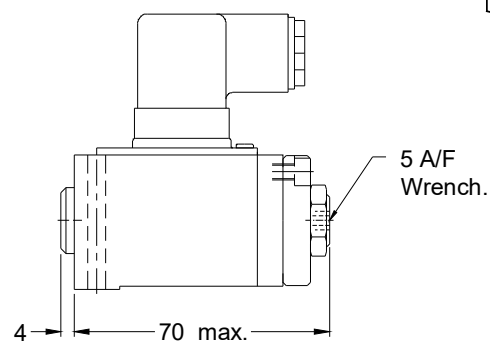
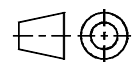
Unit dimension

Subplate mounting



(Model 1PS10)

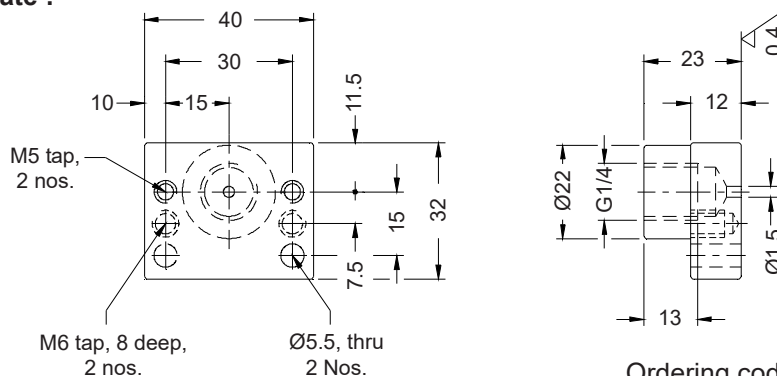
Dimensions in mm.



(Mounting Interface - 1PS)

Subplates :

1. Threaded Subplate :

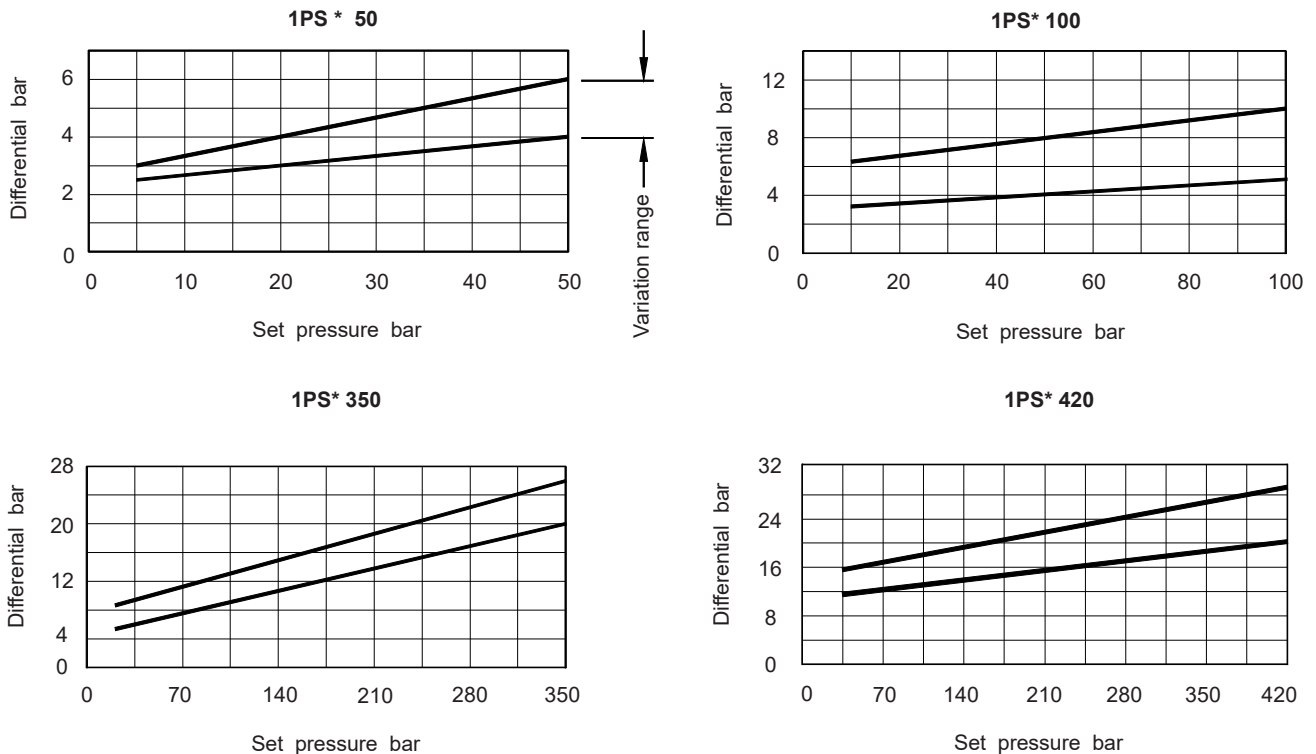


Ordering code : 1PSG02

Technical specification

Construction	Spring loaded sealed piston type.																												
Mounting style	Subplate mounting.																												
Interface	Factory standard.																												
Mounting position	Optional. (Pressure sensing port facing downward preferred)																												
Hydraulic medium	Mineral oil.																												
Viscosity range	10 cSt to 380 cSt.																												
Fluid temperature range	-20 °C to +70 °C.																												
Oil cleanliness requirement	As per ISO 16/13.																												
Maximum operating pressure	Refer Table no.1.																												
Pressure ranges available	Adjustable upto 10, 50,100, 200, 350 and 420 bar.																												
Switching pressure differential	Refer graph.																												
Switching frequency	120 / min.																												
Switching accuracy	< ± 1 %																												
Life	1 million cycles min.																												
Electrical rating	250 VAC 5.0 A 50 VAC 1.0 A 250 VDC 0.2 A																												
Electrical connection	Plug - in connector conforms to DIN 43650, ISO 4400. Transperant plug in connector with LED, which gives indication when pressure in the line is above the set pressure. 230 VAC 5 A max. 24 VDC 1 A max.																												
Mass	Pressure switch 0.95 kg. Subplate 0.13 kg.																												
Pressure setting (bar)	<table border="0"> <thead> <tr> <th>Model</th> <th>Increasing pr. min. max.</th> <th>Decreasing pr. min. max.</th> <th>Operating pr. max.</th> </tr> </thead> <tbody> <tr> <td>1PS * 10</td> <td>4 10</td> <td>2.5 7</td> <td>100</td> </tr> <tr> <td>1PS * 50</td> <td>8 50</td> <td>5 44</td> <td>420</td> </tr> <tr> <td>1PS * 100</td> <td>14 100</td> <td>10 90</td> <td>420</td> </tr> <tr> <td>1PS * 200</td> <td>20 200</td> <td>15 185</td> <td>420</td> </tr> <tr> <td>1PS * 350</td> <td>25 350</td> <td>20 330</td> <td>420</td> </tr> <tr> <td>1PS * 420</td> <td>28 420</td> <td>22 390</td> <td>420</td> </tr> </tbody> </table>	Model	Increasing pr. min. max.	Decreasing pr. min. max.	Operating pr. max.	1PS * 10	4 10	2.5 7	100	1PS * 50	8 50	5 44	420	1PS * 100	14 100	10 90	420	1PS * 200	20 200	15 185	420	1PS * 350	25 350	20 330	420	1PS * 420	28 420	22 390	420
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1PS * 350	25 350	20 330	420																										
1PS * 420	28 420	22 390	420																										

Switching pressure differential graph

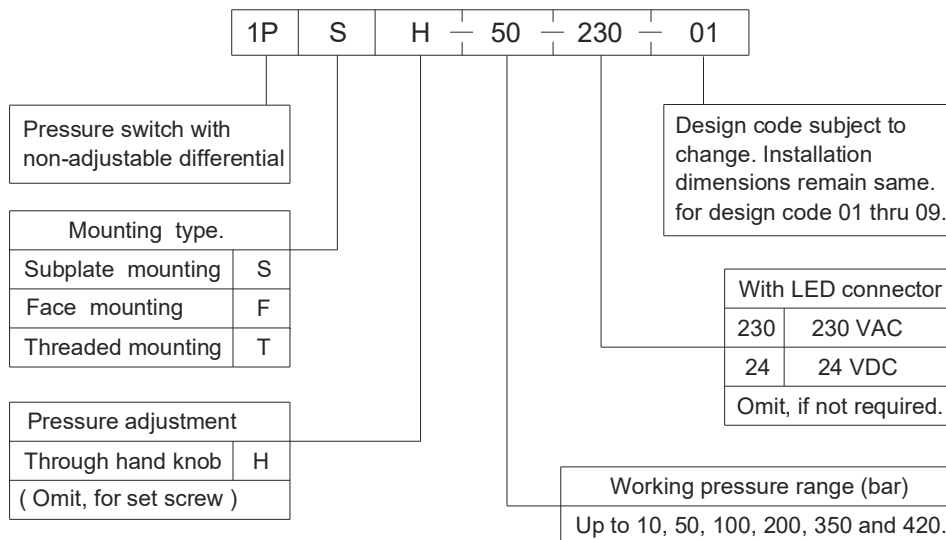


These are non-adjustable differential type pressure switches. These pressure switches are generally used for setting either rising pressure or falling pressure signal.

For adjustable differential type, use two pressure switches by setting one for rising pressure and other for falling pressure.

The above graphs show the variation range for resetting of the Pr. Switch. E.g. When 1PS100-** pr. switch is Set at 80 bar rising pressure signal, the pr. switch will reset anywhere between 71 [80-9] bar to 75 [80-5] bar. Similarly If the Pr. Switch is set for falling pressure signal the variation range is applicable to rising pressure at which the pressure switch resets.

Ordering code



Note : For threaded type valve subplate and bolt kit to be ordered separately.

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THM Fluid Technik Pvt. Ltd.

PRESSURE SWITCH (PS)

