

The electro-hydraulic pressure switch provides an electric signal when the sensed pressure goes above or below the selected setting.

Function

The spring loaded piston is hydraulically damped. The PSB provides a very accurate hysteresis between the switching points (see diagram).

The required operating pressure is adjusted by the set-screw. Unauthorised adjustments can be prevented by the optional cylinder lock. The electric element is a micro switch with snap-action contact. Three terminals permit application as "On", "Off" or "Changeover" switch.

The electrical connection is made with a 3-pole plug-in connector to EN 175301-803 with ground.

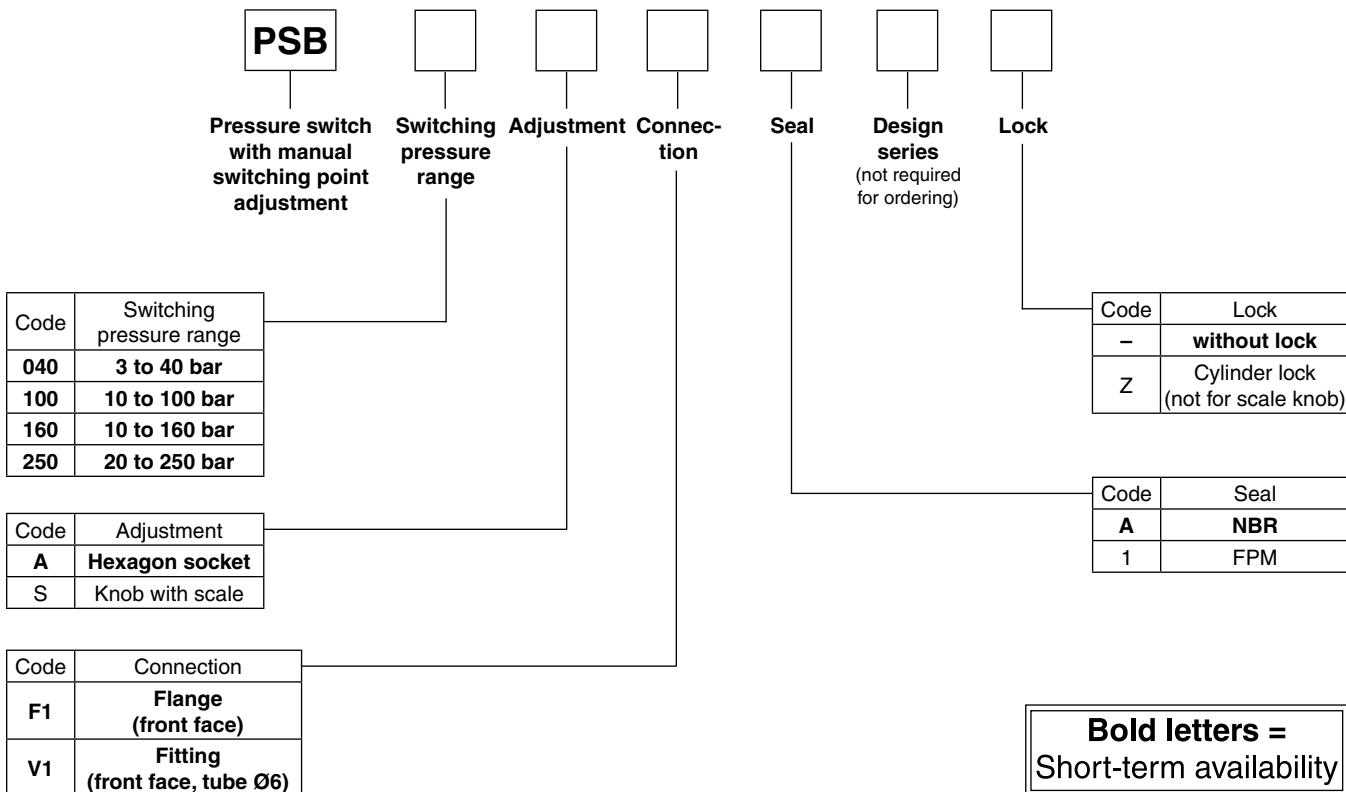
Note

For inductive DC loads a spark discharger should be used to increase service life.

Features

- Flange or pipe mounting
- 4 pressure ranges
- Can be used as opener or closer
- Cylinder lock optional

Ordering Code

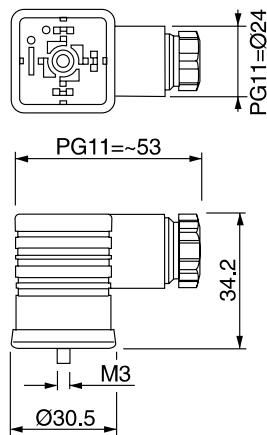


Technical data

General		
Symbol	DIN 24340	
Design	Plunger type switch	
Mounting	PSB*F1* flange (front face) PSB*V1 pipe mounting	
Mounting position	unrestricted	
Ambient temperature	[°C]	-20 ... +60
MTTF _D value	[years]	150
Weight	[kg]	1.0
Hydraulic		
Operating pressure	[bar]	to 315
Actuating pressure difference	see diagram	
Duty cycle	max. 1/s	
Fluid	Hydraulic oil according to DIN 51524	
Fluid temperature	[°C]	-20...+70 (NBR: -25...+70)
Viscosity, permitted recommended	[cSt] / [cSt] /	[mm ² /s] / [mm ² /s]
	20 ... 400	30 ... 80
Filtration	ISO 4406 (1999); 18/16/13	
Electrical connection	Plug-in connector to EN 175301-803	
Insulation	IP65 as per EN 60529 (with correctly mounted plug-in connector)	
Contact load carrying capacity	5 A at 250 VAC; 1 A at 50 VDC; 0.2 A at 250 VDC	

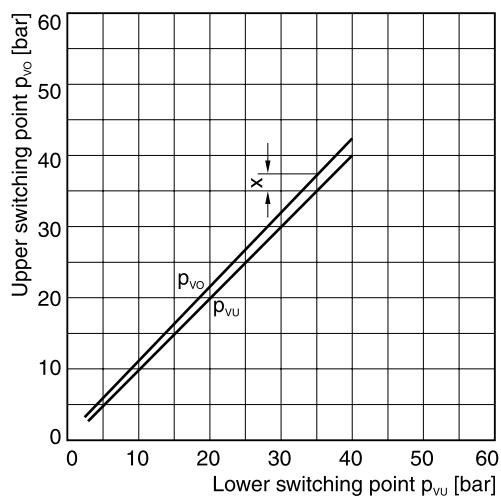
Plug EN 175301-803

Description	Threaded cable joint	Ordering code
Plug EN 175301-803, design type AF, protection class IP 65	PG11	HR 21500157
Plug with LED, 12...230V AC/DC, protection class IP 65	PG11	HR 21502321

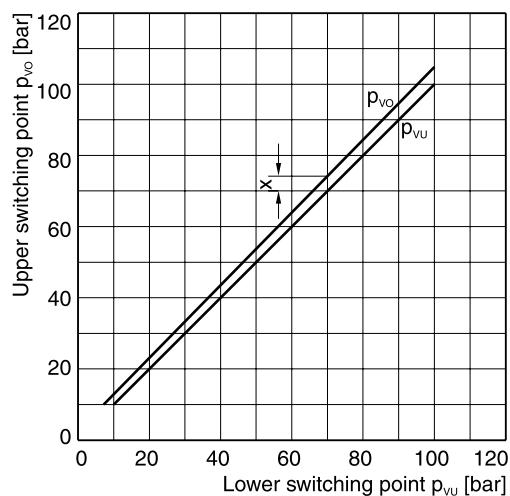


Switching pressure difference

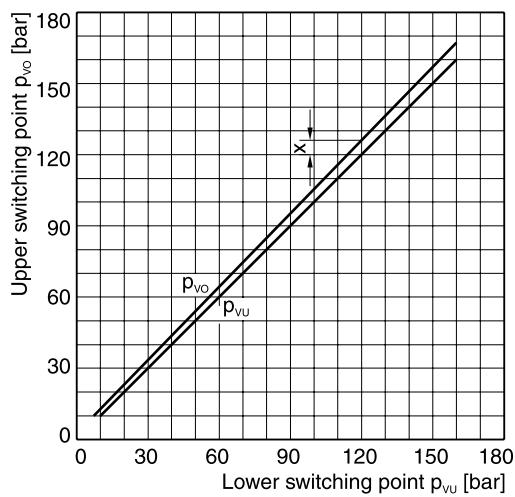
PSB040



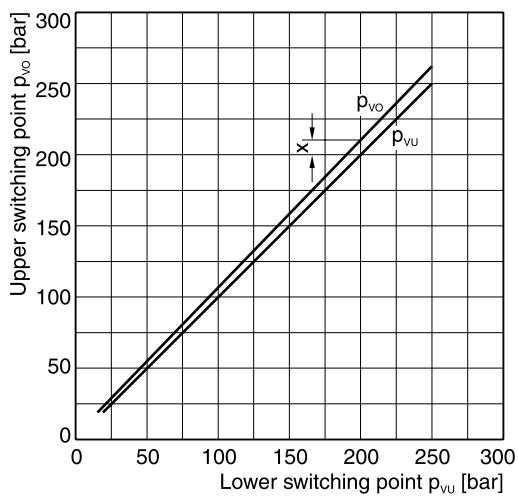
PSB100



PSB160



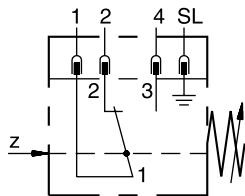
PSB250



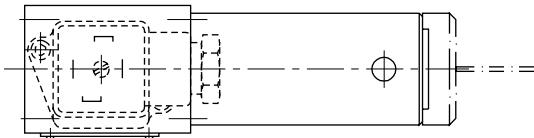
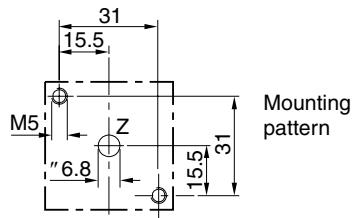
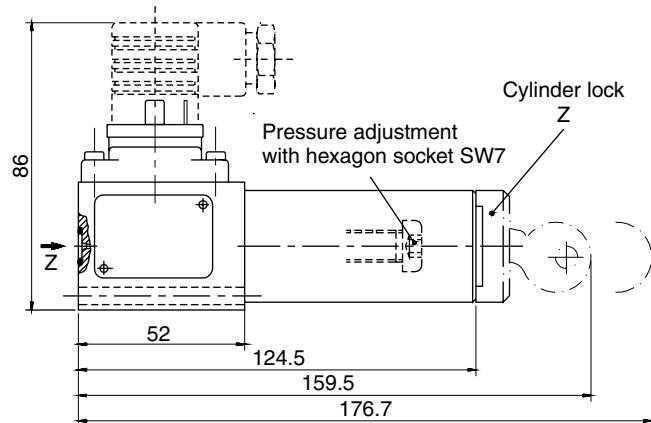
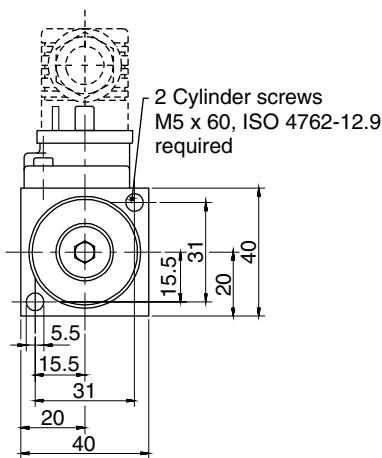
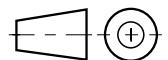
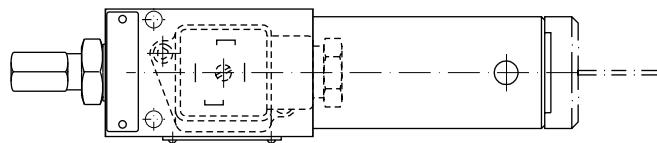
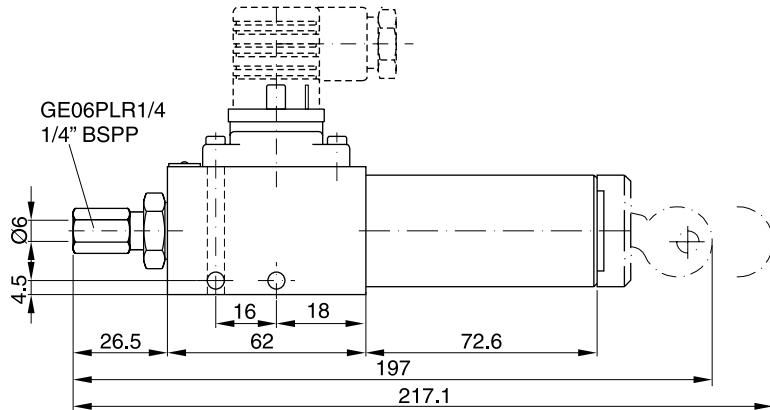
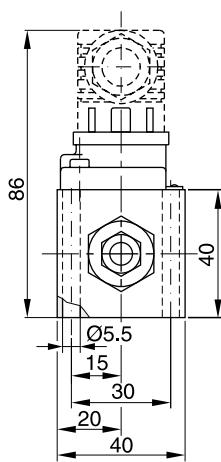
X = switching differential

All characteristic curves measured with HLP46 at 50 °C.

Electrical connections



Electrical connection EN175301-803

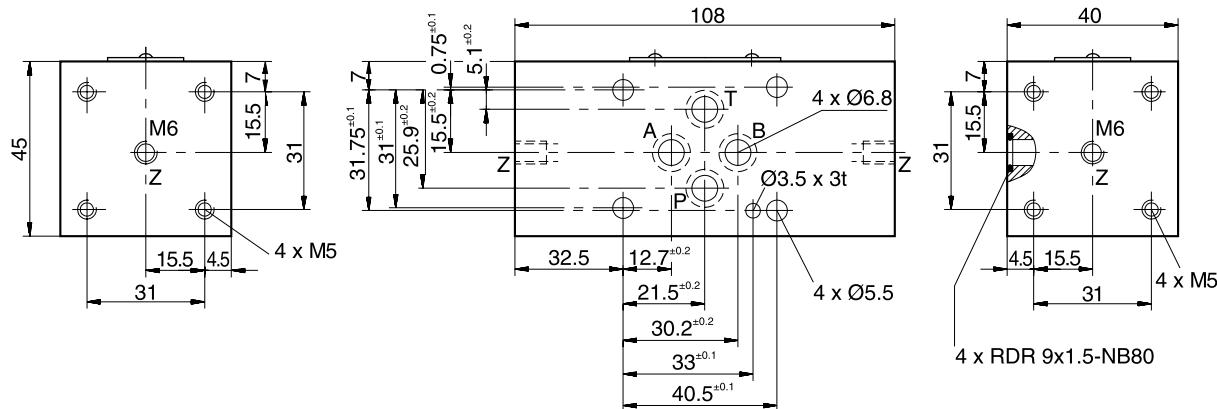
Type PSB*F1***Type PSB*V1***

Technical Data

Switch code	Ordering code	Nominal size	Function
	H06PSB-994	06	Pressure switch connection to A or B or A and B: Connections not used are closed by plug.
	H10PSB-996	10	
	H06PSB-993	06	Pressure switch connection to P (left or right mounting is possible). Connection not used is closed by plug.
	H10PSB-995	10	

Bold letters =
Short-term availability

Dimensions NG06



Dimensions NG10

