

Piston Type Pressure Switch

Model: HED4...1XJ



◆ Maximum working pressure 350 bar

Contents

Function description, sectional drawing	02
Models and specifications	02
Functional symbols and terminal connection	03
Technical parameters	03
Characteristic curve	04
Component size	05-06

Features

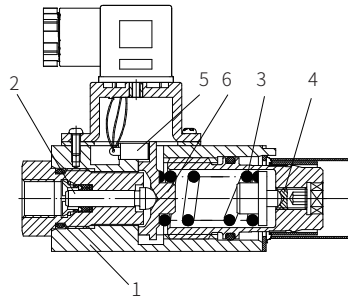
- Piston type, sensitive and reliable action
- Subplate mounting
- Pipe installation

Any part of this brochure can not be reproduced, edited, copied and disseminated electronically in any way without authorization of Jiayite Hydraulics company. As the product is in constant development and innovation, the information in this brochure is not specific to the special conditions or applicability of a specific industry, thus Jiayite Hydraulics company is not responsible for any incomplete or inaccurate description generated.

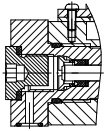


Function description, sectional drawing

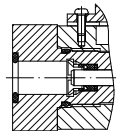
The HED4 type hydraulic-electric pressure switch is a piston pressure switch. It consists of the valve body (1), cartridge with piston (2), spring (3), adjusting element (4) and micro switch (5). The detected pressure acts on the piston (2), then the piston (2) is supported by the spring seat (6) and acts against the continuously adjustable force of the spring (3). The spring seat (6) transfers the movement of the piston (2) to the micro switch (5) to make the circuit switched on or off according to the design requirements.



Model HED40A-1XJ/



Model HED40P-1XJ/



Model HED40H-1XJ/

Models and specifications

HED4	-1X	J	Z14	*
piston type pressure switch				
subplate mounting	=OP			
piping installation	=OA			
vertical stacking systems	=OH			
10 to 19 series	=1X			
(10 to 19 series installation and connection size unchanged)				
Rekith	=J			
maximum adjusting pressure 50bar	=50			
maximum adjusting pressure 100bar	=100			
maximum adjusting pressure 350bar	=350			
			S=	protective cap
			L24=	24V lamp (25~35V)
			L110=	110V lamp (90~130V)
			L220=	220V lamp (180~240V)
			Z14=	small plug
			No code=	sealing material
			V=	NBR seals
				FKM seals
				(consult for other seals)

more information in text

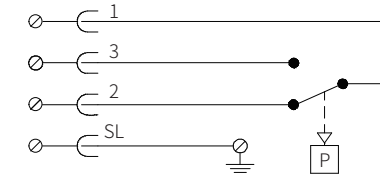
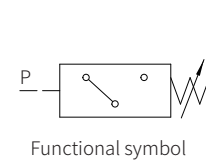
sealing material
 No code= NBR seals
 V= FKM seals
 (consult for other seals)

protective cap

L24= 24V lamp (25~35V)
 L110= 110V lamp (90~130V)
 L220= 220V lamp (180~240V)

Z14= small plug

Functional symbols and terminal connection



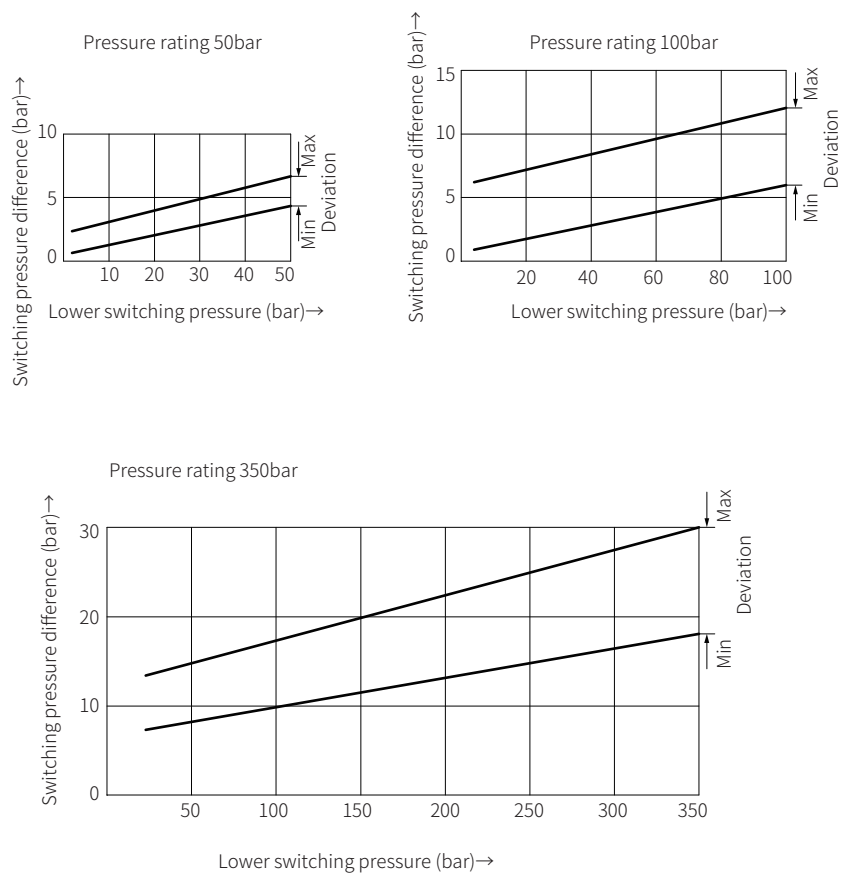
terminal connection -Z14 small plug

Technical parameters

Working medium		Mineral oil - suitable for NBR and FKM seal			
		Phosphate ester - suitable for FKM seal			
Working medium temperature range		°C	20 to +80 (FKM seal)		
		°C	30 to +80 (NBR seal)		
Viscosity range		mm²/s	2.8 to 500		
Cleanliness of oil:		The maximum allowable pollution level of oil is NAS16389 and ISO4406 Class 20/18/15			
Switching accuracy (repeatability)		%	<± 1% of setting range		
Allowed switching frequency	times/per minute	120			
Electrical connection		Plug-in connector to DIN 43 650 form A, 3... Pin +PE			
Rated pressure (bar)	Maximum setting pressure (bar)	Recover pressure (bar)		Action pressure (bar)	
		min	max	min	max
50	50	2	46	4	50
100	100	3	89	8	100
350	350	6	322	20	350
Maximum connection cross-sectional area		mm²/s	1.5		
Valve protection to DIN43650		IP 65			
If DC inductive loading, it need to use a spark suppressor to extend the life.					
Contact load	AC	250V/5A;			
	DC	50V/1A, 250V/0.2A			
Weight	Pressure switch	0.6			
	Stacking plate	0.8 (size 6)			
		1.9 (size 10)			

Characteristic curve

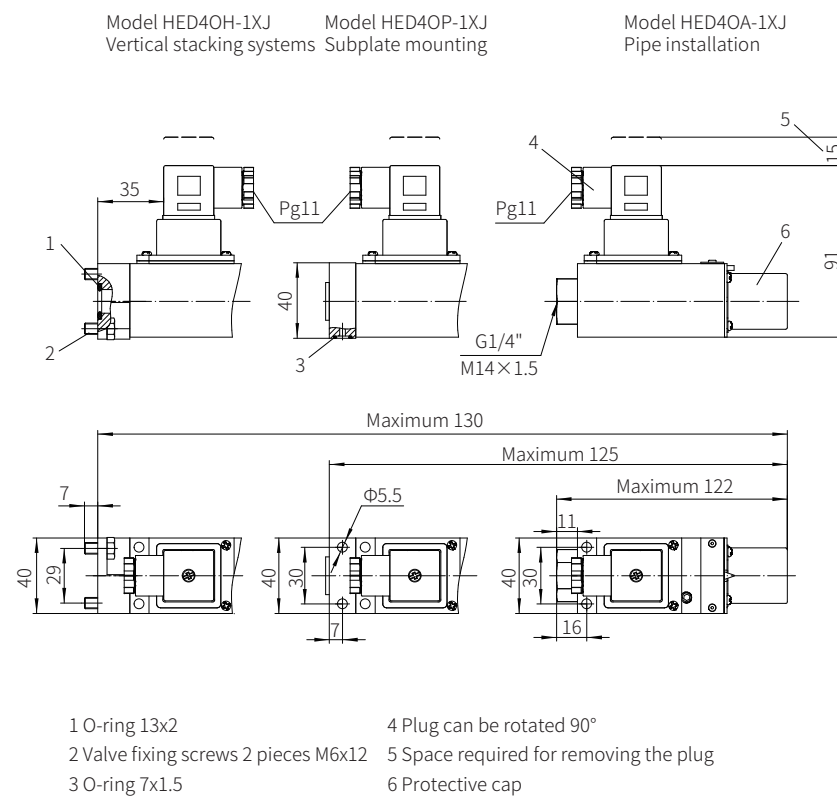
(Measured when using HLP46, $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)



Component size

Size unit: mm

Pressure switch



1 O-ring 13x2

2 Valve fixing screws 2 pieces M6x12

3 O-ring 7x1.5

4 Plug can be rotated 90°

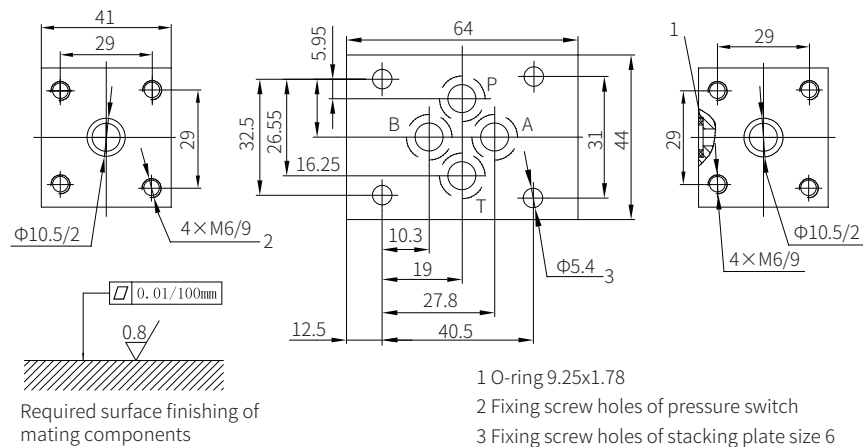
5 Space required for removing the plug

6 Protective cap

Component size

Size unit: mm

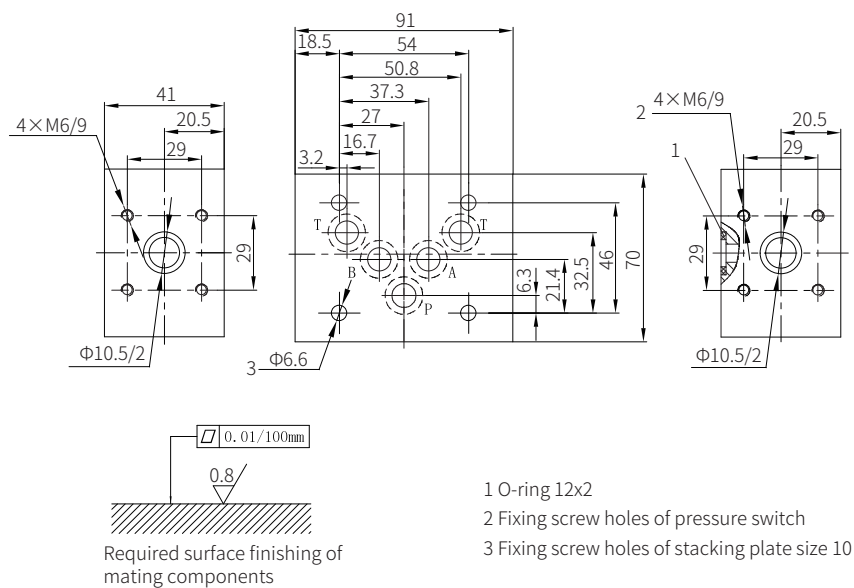
Stacking plate size 6 (for pressure switch HED4...vertical stacking systems)



Component size

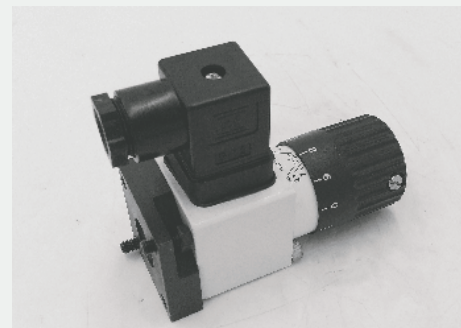
Size unit: mm

Stacking plate size 10 (for pressure switch HED4...vertical stacking systems)



Piston Type Pressure Switch

Model: HED8...1XJ



◆ Maximum working pressure 350 bar

Contents

Function description, sectional drawing	02
Models and specifications	03
Functional symbols	03
Technical parameters	04
Characteristic curve	05
Component size	06-09
Models and specifications	08-09
Terminal connection	10
Circuit example	10

Features

- Subplate mounting
- Pipe installation
- Vertical stacking systems
- Four pressure rating
- Plug with connection (lamp)