



HED8...type Pressure Relay

HED8...1XJ...type

Max. Working Pressure: 350bar

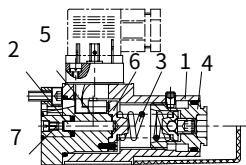


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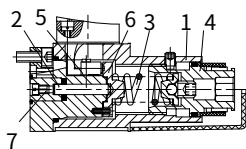
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Function and configuration

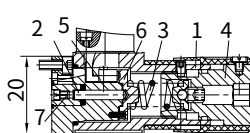
HED8 type relay is a piston pressure switch . It consists of the housing (1), cartridge with spool (2),compression spring (3), adjustment element (4) and micro-switch(5). If the pressure to be monitored is below the set value then the micro-switch (5) is actuated. The pressure fluid is applied to the piston (2) via orifice (7). The piston (2) supports itself on the spring seat (6) and acts against the infinitely adjustable force of the compression spring (3). The spring seat(6) transfers the movement of the piston (2) to the micro-switch (5). The micro-switch (5) is released when fluid setting pressure is reached. The electrical circuit is either switched on or off according to the circuit design. The mechanical stop of the spring seat (6) protects the micro-switch (5), in the case of sudden pressure loss, from mechanical destruction and prevents the compression spring (3) from damaging if an overpressure occurs.



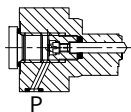
Type HED 8 OH-1XJ/...K14 "S" S...



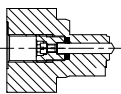
Type HED 8 OH-1XJ/...K14 A AS...



Type HED 8 OH-1XJ/...K14 KW

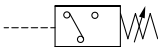


Type HED 8 OP-1XJ...



Type HED 8 OA-1XJ...

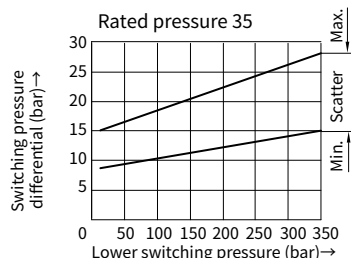
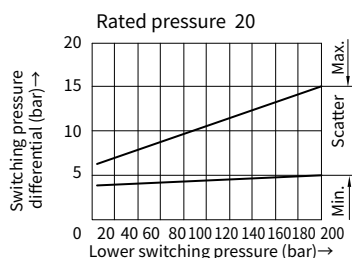
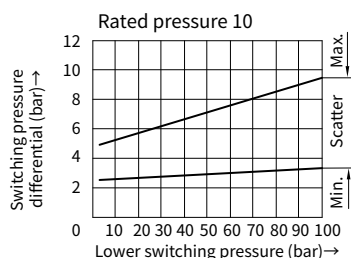
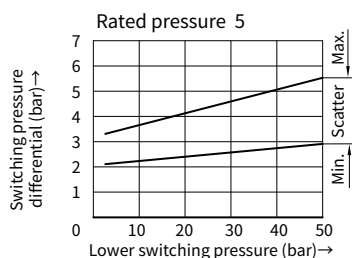
Symbols



Specifications

HED8		-1XJ	/		/		*
Pressurerelay							Further details in clear text
Vertical stacking systems		= OH					No code = NBR seals
Sub-plate mounting		= OP					V = FKM seals
Pipe installation		= OA					
Series 10J to 19J		= 1XJ					Connection thread:
(10J to 19J: unchanged installation and connection dimensions)							No code= Inch threaded (G1/4)
Max. setting pressure 50bar		= 5					2 = Metric threaded (M14×1.5)
Max. setting pressure 100bar		=10					No code= Spindle (without scale)
Max. setting pressure 200bar		=20					S= Spindle (without scale)with protective cap
Max. setting pressure 350bar		=35					A= Spindle with scale
Electrical connection type							AS= Spindle with scale and protective cap
Plug-in		=Z14					KW= Rotary knob with scale
Plug-in with light (DC24V)		=L24					

Characteristic curves (Measured at $t=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, using HLP46)

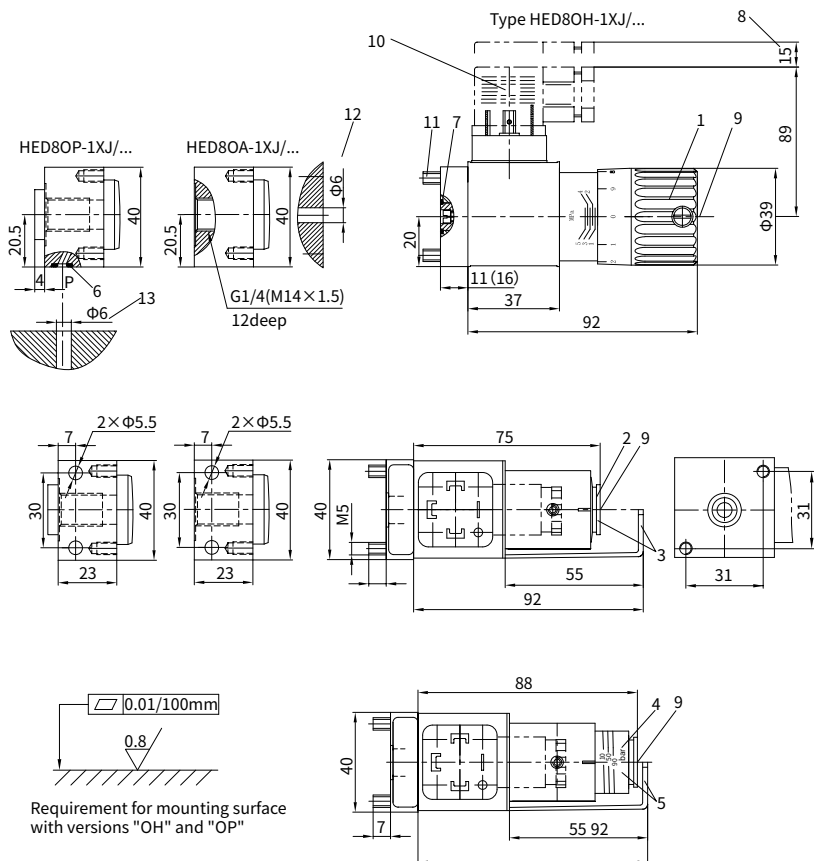


Technical data

Weight	- Pressure switch	kg	0.8
	- Sandwich plate for vertical stacking assemblies	kg	0.8 (NS 6, plate height 40.5 mm)
			3 (NS 6, plate height 120 mm)
			2 (NS 10)
Fluid			Mineral oil suitable for NBR and FKM seal
			Phosphate ester for FKM seal
Fluid temperature range		°C	- 20 to + 80 (for FKM seals) - 30 to+ 80 (for NBR seals)
Viscosity range		mm ² /s	2.8 to 500
Degree of contamination			Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406
Switching accuracy (repeatability)			< ± 1 % of setting range
Permissible switching frequency		times/min.	80
Pressure setting range			
Pressure rating (Max. setting pressure) (bar)		Max. operating pressure (bar)	Pressure setting range (bar)
50		350	2 to 50
100		350	4 to 100
200		350	5 to 200
350		500	8 to 350
Electrical connection			plug-in connector to DIN 43 650, form A, 3-pin + PE
Max. connection cross sectional area		mm ²	0.5
Max. contact load	-AC	250V/5A	
	-DC	50V/1A;125V/0.03A;250V/0.02A	
Protection to DIN 40 050			IP65
With DC inductive loading, a spark suppressor must be provided in order to increase the service life.			

Unit dimensions

(Dimensions in mm)



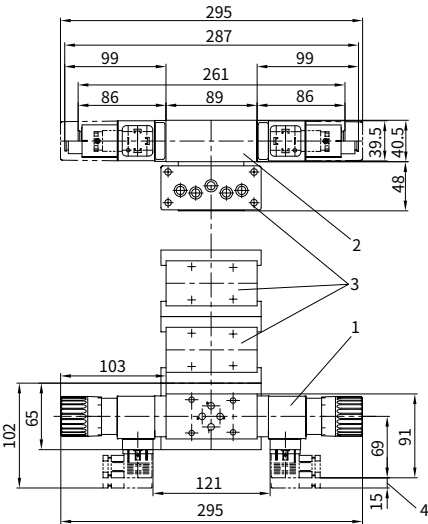
- 1 Adjustment element "KW"
- 2 Adjustment element "-"
- 3 Adjustment element "S"
- 4 Adjustment element "A"
- 5 Adjustment element "AS"
- 6 O-ring 5.3×1.8
- 7 O-ring 10.82×1.78
- 8 Space required to remove the plug-in
- 9 Internal hexagon nut A/F 10
- 10 Plug-in connector without cable to DIN 43 650

- 11 Valve fixing screws:
2- M5×12 GB/T 70.1-10.9,
tightening torque $M_A=8.9\text{Nm}$
- 12 Maximum diameter of the mounting surface of the matting piece (type HED8 OH 1XJ/...)
- 13 Maximum diameter of the mounting surface of the matting piece (type HED8 OP 1XJ/...)

Installation guideline

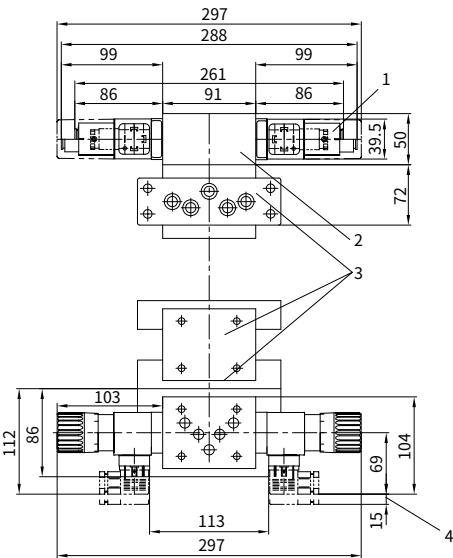
(Dimensions in mm)

• For applying the pressure relay HED40H...in stacking assemblies size 6



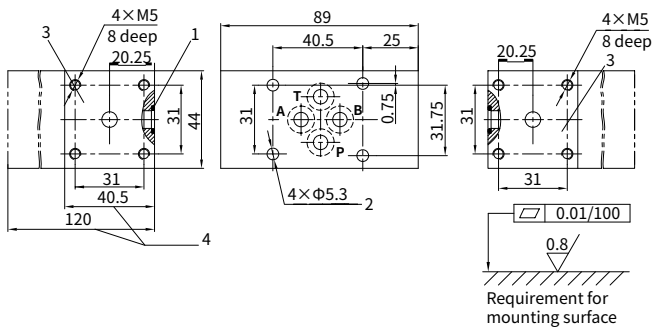
- 1 Pressure switch HED8 OH... for use in stacking assemblies (can be rotated $4 \times 90^\circ$ for mounting). The mounting possibilities of the pressure switch depends on the design of the adjacent stacking plates
- 2 Sandwich plate type HSZ 06 for mounting the pressure switch as a stacking element.
- 3 Stacking elements.
- 4 Space required to remove the plug-in.

• For applying the pressure relay ED40H...in stacking assemblies size 10



- 1 Pressure switch HED8 OH... for use in stacking assemblies (can be rotated $4 \times 90^\circ$ for mounting). The mounting possibilities of the pressure switch depends on the design of the adjacent stacking plates
- 2 Sandwich plate type HSZ 10 for mounting the pressure switch as a stacking element.
- 3 Stacking elements.
- 4 Space required to remove the plug-in.

For the pressure relay type HED 8...as a sandwich (350bar) (Dimensions in mm)



- 1 O-ring 9.25×1.78
- 2 Through holes for valve fixing
- 3 Mounting surface for pressure switch
- 4 Plate height 40.5 mm or 120 mm, optional.

Specification

HSZ	06	A	3XJ	00	*
Sandwich plate	Nominal size 6	Porting pattern to DIN 24 340, form A=A	Version no. (see below)	Further details in clear text	
	= 06			No code =	NBR seals
				V =	FKM seals
			3XJ =	Series 30J to 39J (30J to 39J: unchanged installation and connection dimensions)	

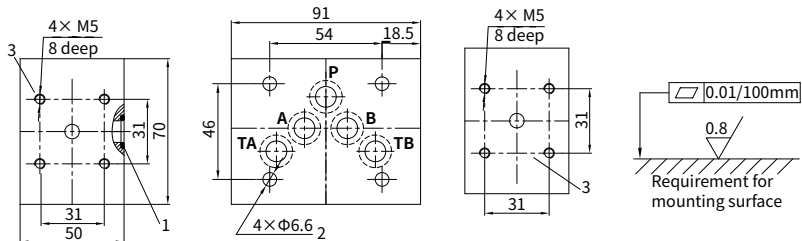
Sandwich plate NS 6: symbols, version no.(version no. in () for 120 mm plate height)

(① =valve side; ② =sub-plate side)

Pressure switc effective in channel...			
Version no.	608(627)	609(628)	601(620)
Pressure switc effective in channel...			
Version no.	602(621)	603(622)	604(625)
Pressure switc effective in channel...			
Version no.	605(624)	606(625)	607(626)
Pressure switc effective in channel...			
Version no.	610(629)	611(630)	612(631)

For the pressure relay HED 8...as a sandwich (350bar)

(Dimensions in mm)



- 1 O-ring 12×2
- 2 Through holes for valve fixing
- 3 Mounting surface for pressure switch

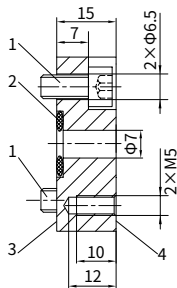
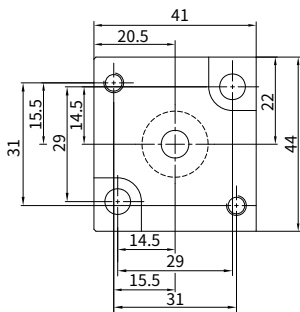
Specification

HSZ	10	A	3XJ	00	★
Sandwich plate	Nominal size 10	Porting pattern to DIN 24 340, form A=A	Version no. (see below)	Further details in clear text	
	= 10			No code =	NBR seals
				V =	FKM seals
				3XJ =	Series 30J to 39J (30J to 39J: unchanged installation and connection dimensions)

Sandwich plate NS 6: symbols, version no. (① =valve side; ② =sub-plate side)

Pressure switch effective in channel...			
Version no.	601	602	603
Pressure switch effective in channel...			
Version no.	604	605	606
Pressure switch effective in channel...			
Version no.	607	608	609
Pressure switch effective in channel...			
Version no.	610	611	612

Transition plate when pressure relay type HED80H substitutes HED40H



- 1 Fixing screws: 2- M6×16
GB/T 70.1-10.9,
tightening torque $M_A=8.9\text{Nm}$
- 2 O-ring 13×2
- 3 Mounting surface for
pressure switch type HED4
- 4 Mounting surface for pressure
switch type HED80H

Specification

GD-HED8-4H/

Transition plates

NBR seals =No code
FKM seals = V

Terminal allocation

