



HED8...type Pressure Relay

HED8...1XJ...type

Max. Working Pressure: 350bar



Contents

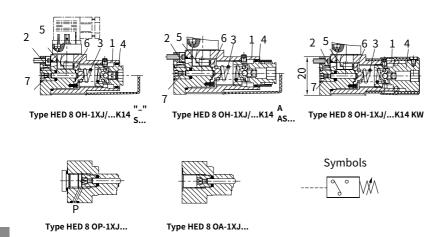
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Function and configuration

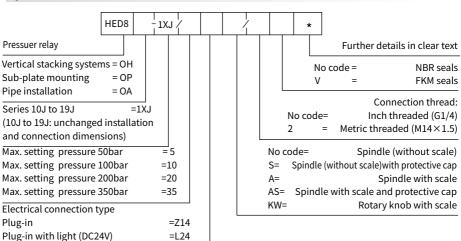
HED8 type relay is a piston pressure switche. It consists of the housing (1), cartridge with spool (2), compression spring (3), adjustment element (4) and micro-switch(5).

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.



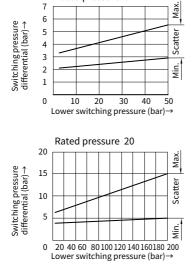
Specifications



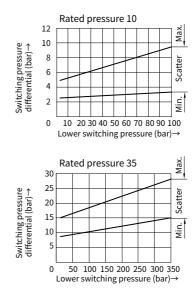
Characteristic curves

7

(Measured at t=40°C ±5°C, using HLP46)

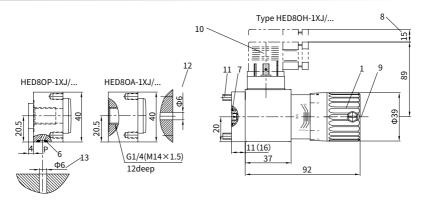


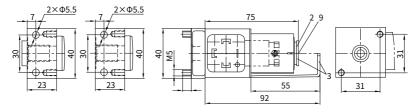
Rated pressure 5



Technical data

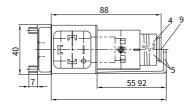
Weight	– Pressure switch	kg	0.8		
	– Sandwich plate for vertical stacking assemblies	kg	0.8 (NS 6, plate height 40.5 mm)		
			3 (NS 6, plate height 120 mm)		
			2 (NS 10)		
Fluid			Mineral oil suitable for NBR and FKM seal		
			Phosphate ester for FKM seal		
Fluid temperature range		°C	– 20 to + 80 (for FKM seals)		
			– 30 to+ 80 (for NBR seals)		
Viscosity range		mm²/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)			< \pm 1 % of setting range		
Permissible switching frequency		times/min.	80		
Pressure setting ran	ige				
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 lo	oading, a spark suppres	ssor must be	provided in o	rder to increase the service life.	







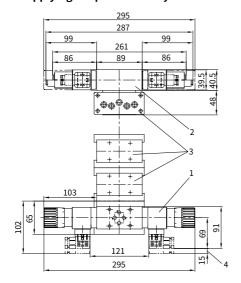
Requirement for mounting surface with versions "OH" and "OP"



- 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=8.9Nm
- 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/...)

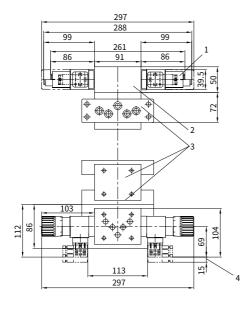
· For applying the pressure relay HED4OH...in stacking assemblies size 6



- Pressure switch HED8 OH... for use in stacking assemblies
 (can be rotated 4×90° for mounting).

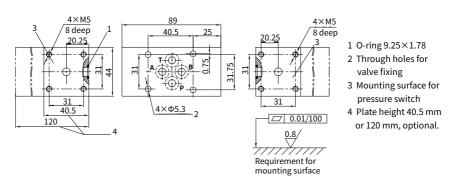
 The mounting possibilities of the pressure switch depends on the design of the adjacent stacking plates
- 2 Sandwich plate type HSZ 06 for mounting the pressure switch as a stacking element.
- 3 Stacking elements.
- 4 Space required to remove the plug-in.

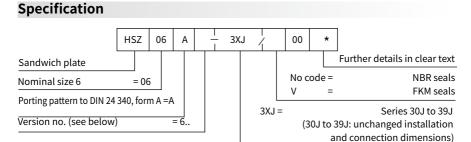
· For applying the pressure relay ED40H...in stacking assemblies size 10



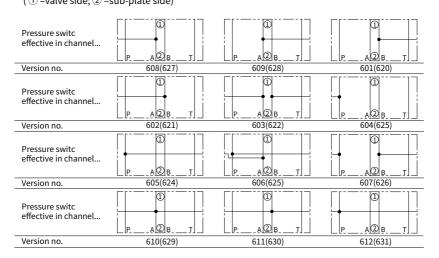
- 1 Pressure switch HED8 OH... for use in stacking assemblies (can be rotated 4×90° for mounting). The mounting possibilities of the pressure switch depends on the design of the adjacent stacking plates
- 2 Sandwich plate type HSZ 10 for mounting the pressure switch as a stacking element.
- 3 Stacking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

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



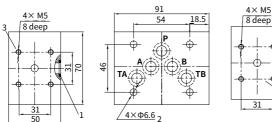


Sandwich plate NS 6: symbols, version no. (version no. in () for 120 mm plate height) (① =valve side; ② =sub-plate side)



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

(Dimensions in mm)

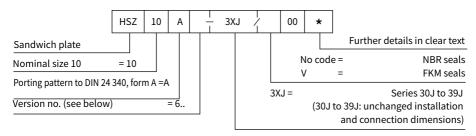


0.8

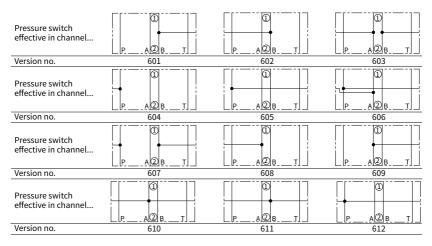
Requirement for mounting surface

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

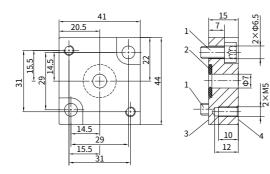
Specification



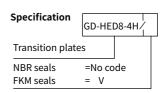
Sandwich plate NS 6: symbols, version no. (1) =valve side; 2) =sub-plate side)



Transition plate when pressure relay type HED8OH substitutes HED4OH



- $\begin{array}{l} 1 \; \text{Fixing screws:2- M6} \!\times\! 16 \\ \text{GB/T 70.1-10.9,} \\ \text{tightening torque M}_{\text{A}} \!\!=\! 8.9 \text{Nm} \end{array}$
- 2 O-ring 13×2
- 3 Mounting surface for pressure switch type HED4
- 4 Mounting surface for pressure switch type HED80H



Terminal allocation

