

Hydro-electric Pressure Switch Type HD-HED 8, Series 10

up to 63 MPa

Replaces

RE 30100

Features

- For subplate mounting
- For pipe installation
- As vertical stacking element to porting pattern DIN 24 340 J4
- In horizonal stacking assemblies
- 5 pressure stages
- 4 adjustment elements:

Spindle with internal hexagon, with or without protective cap (protective cap can be sealed)

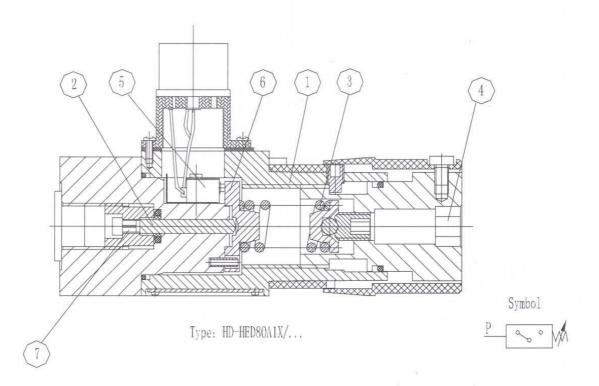
Spindle with internal hexagon and scale, with or without protective cap

Rotary knob with scale

Lockable rotary knob with scale

- Plug-in connector with circuitry (indicator lamp)(separate order)

Function, section, symbol



Hydro-electric pressure switches type HD - HED 8 are piston type pressure switches.

They basically consist of the housing (1), cartridge with piston (2), compression spring (3), adjustment element (4) and micro-switch(5). If the pressure to be monitored is below the set value then the microswitch(5) is actuated. The pressure to be monitored is applied to the piston (2) via orifice (7). The piston (2) supports itself on the spring plate (6) and acts against the infinitely adjustable force of the compression spring (3). The spring plate (6) transfers the movement of the piston (2) to the micro-switch (5) and releases the same on reaching the set pressure. Through this, the electrical circuit is either switched on or off according to the circuit design. The mechanical stop of the spring plate (6) protects the micro-switch (5), in the case of sudden pressure loss, from mechanical destruction and prevents the compression spring (3) from blocking if an over-pressure occurs.

Note

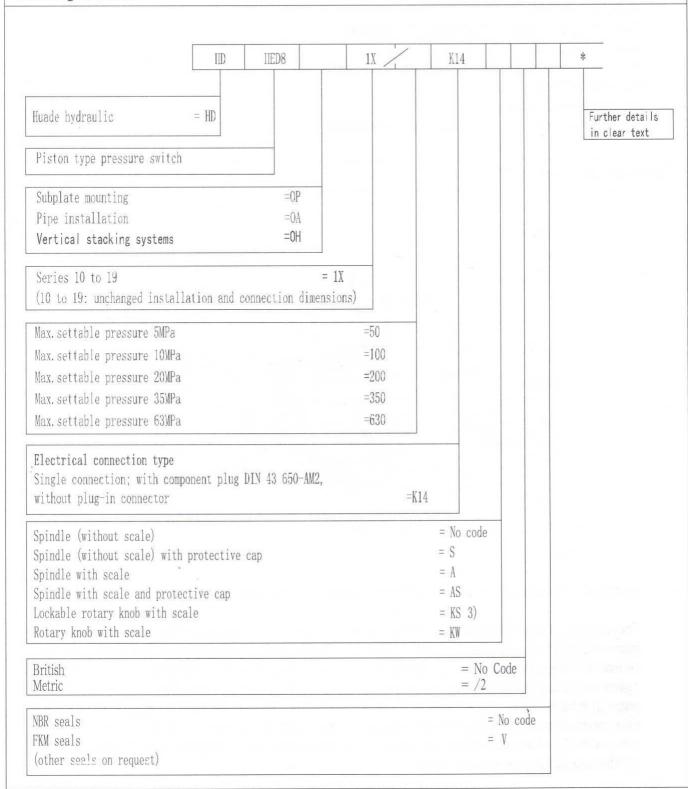
Note:

To increase the service life the pressure switch should be mounted vibration- proof,

be protected from hydraulic pressure shocks.

Orifice (7) which is fitted as standard, can be replaced and matched according to the required degree of damping required.

Ordering details



Technical data (for applications outside these parameters, please consult us!)

General

Weight - Pressure switch (kg)	0.8	
vveignt	0.8 (NS 6, plate height 40.5 mm)	
- Sandwich plate for vertical stacking assemblies (kg)	3 (NS 6, plate height 120 mm)	
	2 (NS 10)	

Hydraulic

Pressue fluid		Mineral oil; Fast bio-degradable hydraulic fluids	
Pressure fluid temperature range	(°C)	-30 ~ +50 (for NBR seals)	
1 1000010 Hala temperature range	(()	-20~+50 (for FPM seals)	
Condition temperature range	(901)	-30~+50 (for NBR seals)	
Condition temperature range	(°C)	$-20 \sim +50$ (for FPM seals)	
Viscosity range	(mm^2/s)	10~800	
Degree of contamination		Maximum permissible degree of contamination of the pressure fluid is to NAS 1638 class 9. We, therefore recommend a filter with a minimum retention rate of $\beta_{10} \geqslant 75$.	
Switching accuracy (repeatability)		<±1 % of setable range	
Permissible switching frequency	(1/h)	4800	

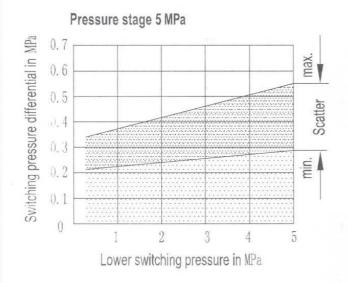
Pressure setting range

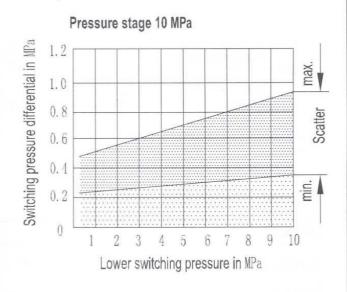
Pressure stage (Max. settable pressure) in MPa	Max. operating pressure in MPa	Pressure setting range in MPa	
5	35	0.2 to 5	
10	35	0.4 to 10	
20	35	0.5 to 20	
35	50	0.8 to 35	
63	63	3 to 63	

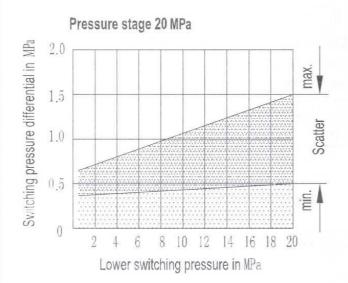
Electrical technical data

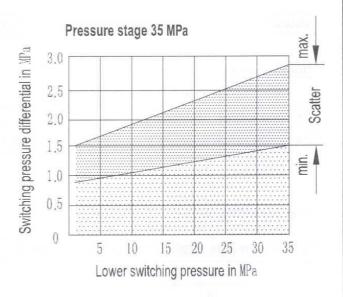
Electrical connection Max. connection cross sectional area mm ²		plug-in connector to DIN 43 650, form A, 3-pin + PE 1.5	
	-DC	50V/1A; 125V/0.03A; 250V/0.02A	
Protection to DIN 40	050	IP65	

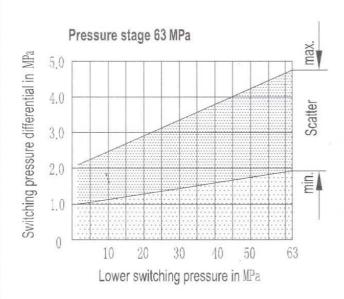
Switching pressure differential

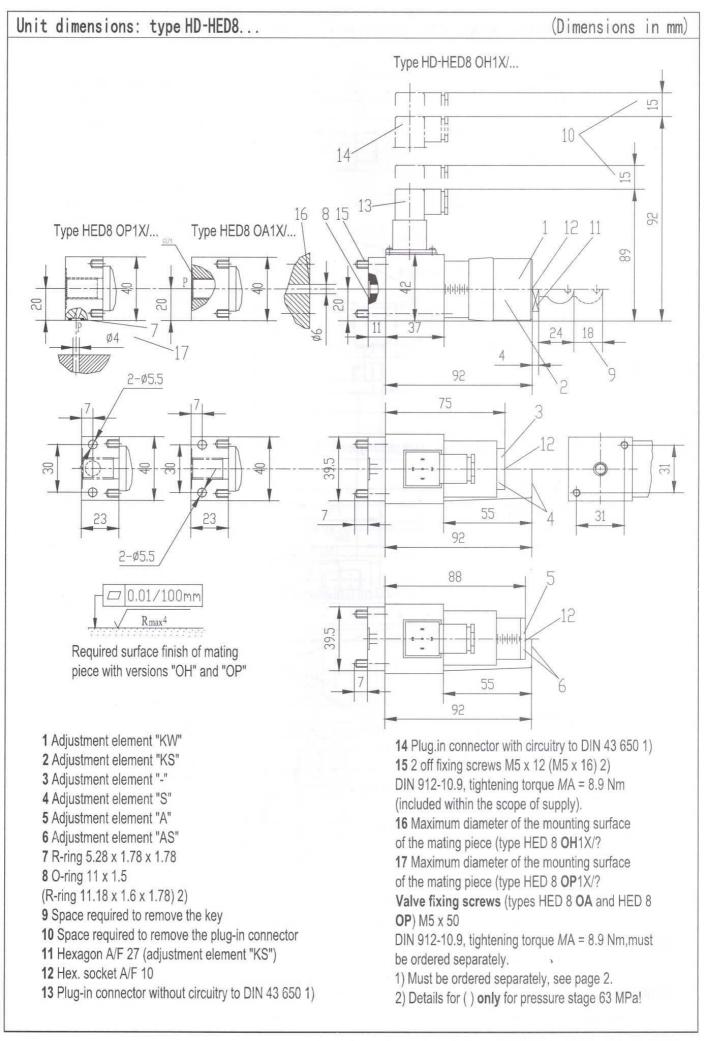


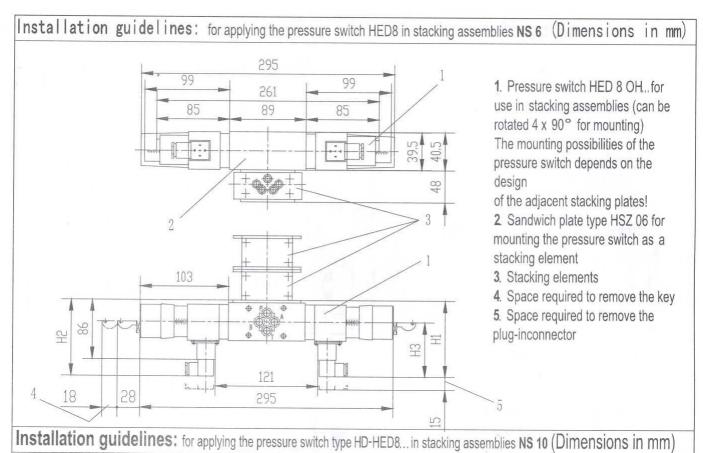


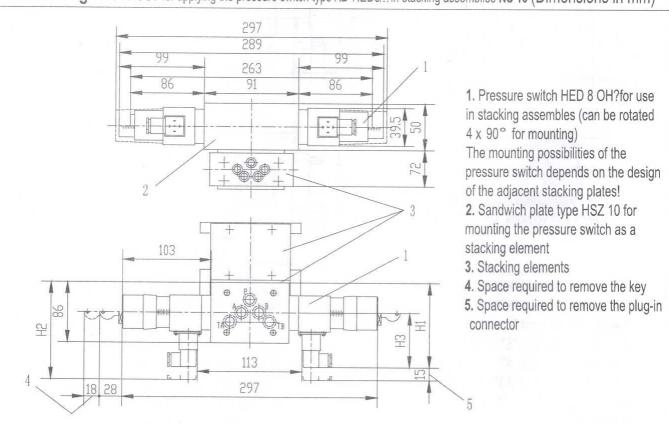












		H1	H2	Н3
Nom. size 6 Plug-in connector without circuitry Plug-in connector with circuitry	Plug-in connector without circuitry	91	102	69
	94	105	72	
Nom. size 10 Plug-in connector without circuitry Plug-in connector with circuitry	Plug-in connector without circuitry	104	112	69
	107	115	72	

