HUADE AMÉRICA

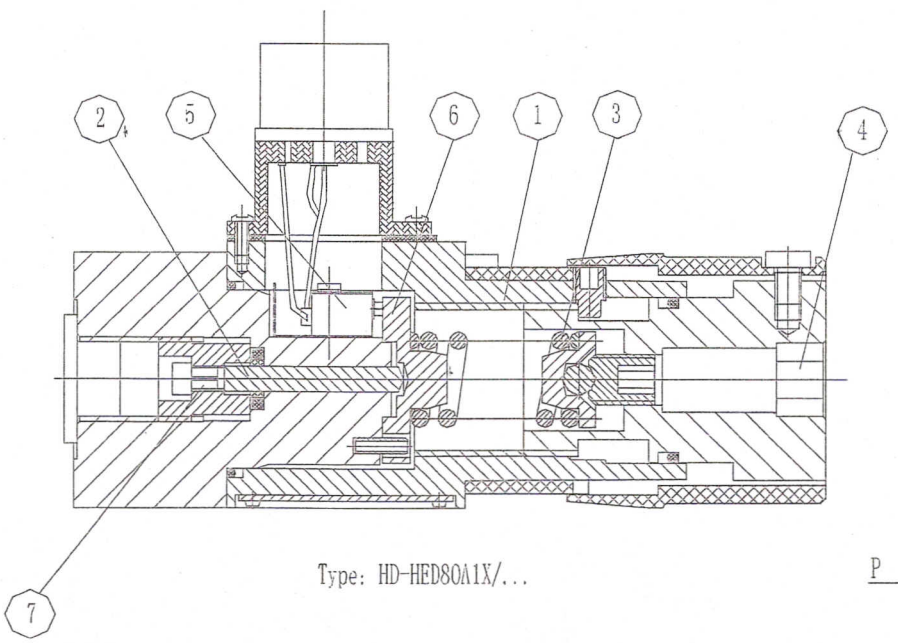
Catálogo de Produtos

Hydro-electric Pressure Switch – HD-HED8…10/

BEIJING HUADE HYDRULIC INDUSTRIAL GROUP CO.,LTD.	Hydro-electric Pressure Switch Type HD-HED 8, Series 10	RE 30100
	up to 63 MPa	Replaces

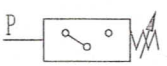
Features
- For subplate mounting
- For pipe installation
- As vertical stacking element to porting pattern DIN 24 340 J4
- In horizonal stacking assemblies
- 5 pressure stages
- 4 adjustment elements:
  Spindle with internal hexagon, with or without protective cap
  (protective cap can be sealed)
  Spindle 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



Type: HD-HED8OA1X/...

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

HD	HED8		1X /	K14				*

Huade hydraulic = HD

Piston type pressure switch

Subplate mounting	=0P
Pipe installation	=0A
Vertical stacking systems	=0H

Series 10 to 19	= 1X
(10 to 19: unchanged installation and connection dimensions)	

Max. settable pressure 5MPa	=50
Max. settable pressure 10MPa	=100
Max. settable pressure 20MPa	=200
Max. settable pressure 35MPa	=350
Max. settable pressure 63MPa	=630

Electrical connection type
Single connection; with component plug DIN 43 650-AM2,
without plug-in connector =K14

Spindle (without scale)	= No code
Spindle (without scale) with protective cap	= S
Spindle with scale	= A
Spindle with scale and protective cap	= AS
Lockable rotary knob with scale	= KS 3)
Rotary knob with scale	= KW

British	= No Code
Metric	= /2

NBR seals	= No code
FKM seals	= V
(other seals on request)	

Further details in clear text

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

General

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)

Hydraulic

Pressue fluid		Mineral oil; Fast bio-degradable hydraulic fluids
Pressure fluid temperature range	(℃)	-30～+50 (for NBR seals)
		-20～+50 (for FPM seals)
Condition temperature range	(℃)	-30～+50 (for NBR seals)
		-20～+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

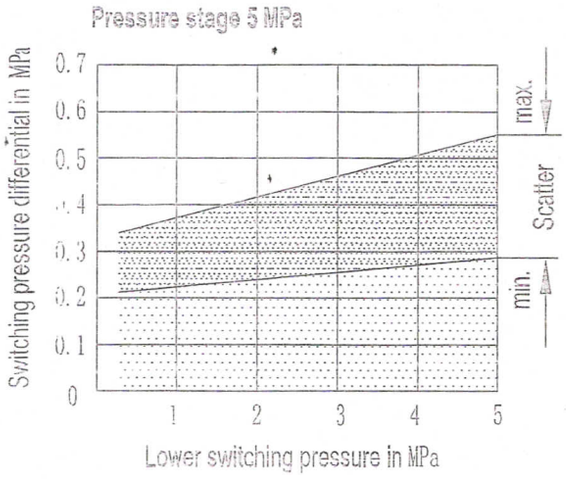
Pressure setting range

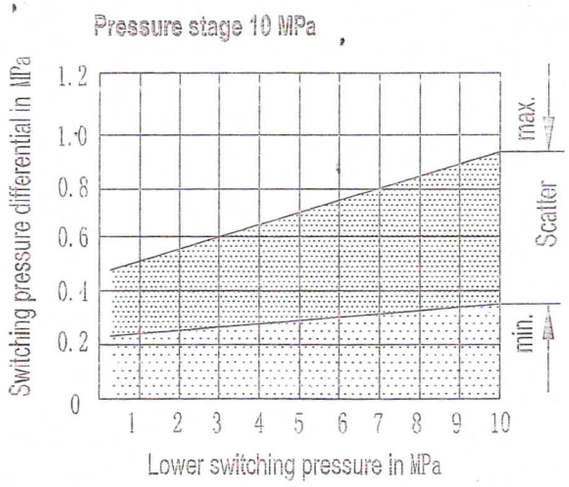
Pressure stage (Max. settable pressure) in MPa	Max. operating pressure in MPa	Pressure setting range in MPa
5	35	0.2 to 5
10	35	0.4 to 10
20	35	0.5 to 20
35	50	0.8 to 35
63	63	3 to 63

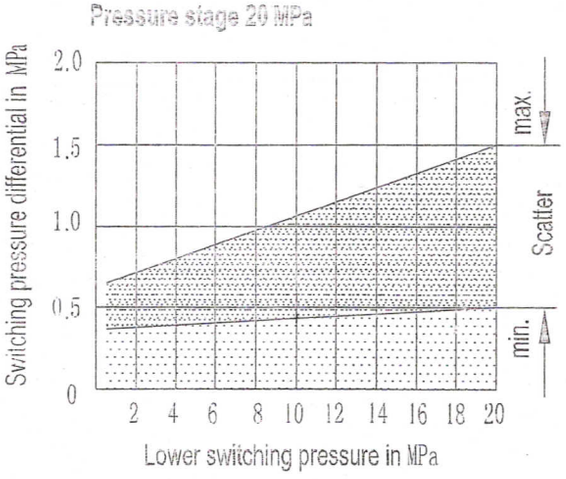
Electrical technical data

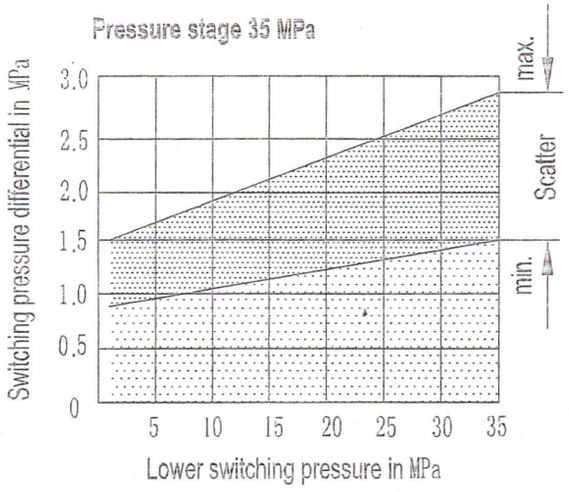
Electrical connection		plug-in connector to DIN 43 650, form A, 3-pin + PE
Max. connection cross sectional area	mm^2	1.5
Max. contact load	~AC	250V; 5A
	-DC	50V/1A; 125V/0.03A; 250V/0.02A
Protection to DIN 40 050		IP65

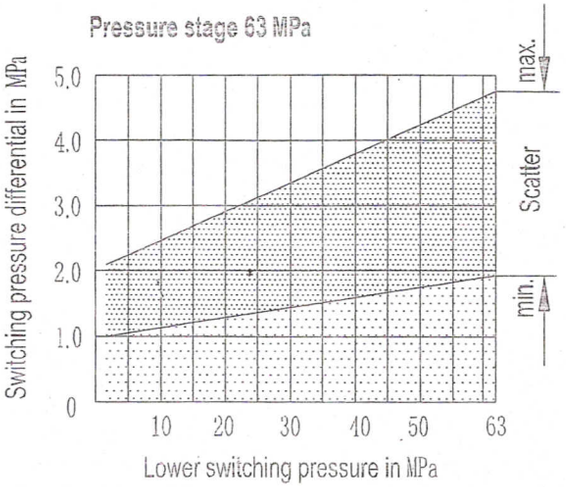
Switching pressure differential





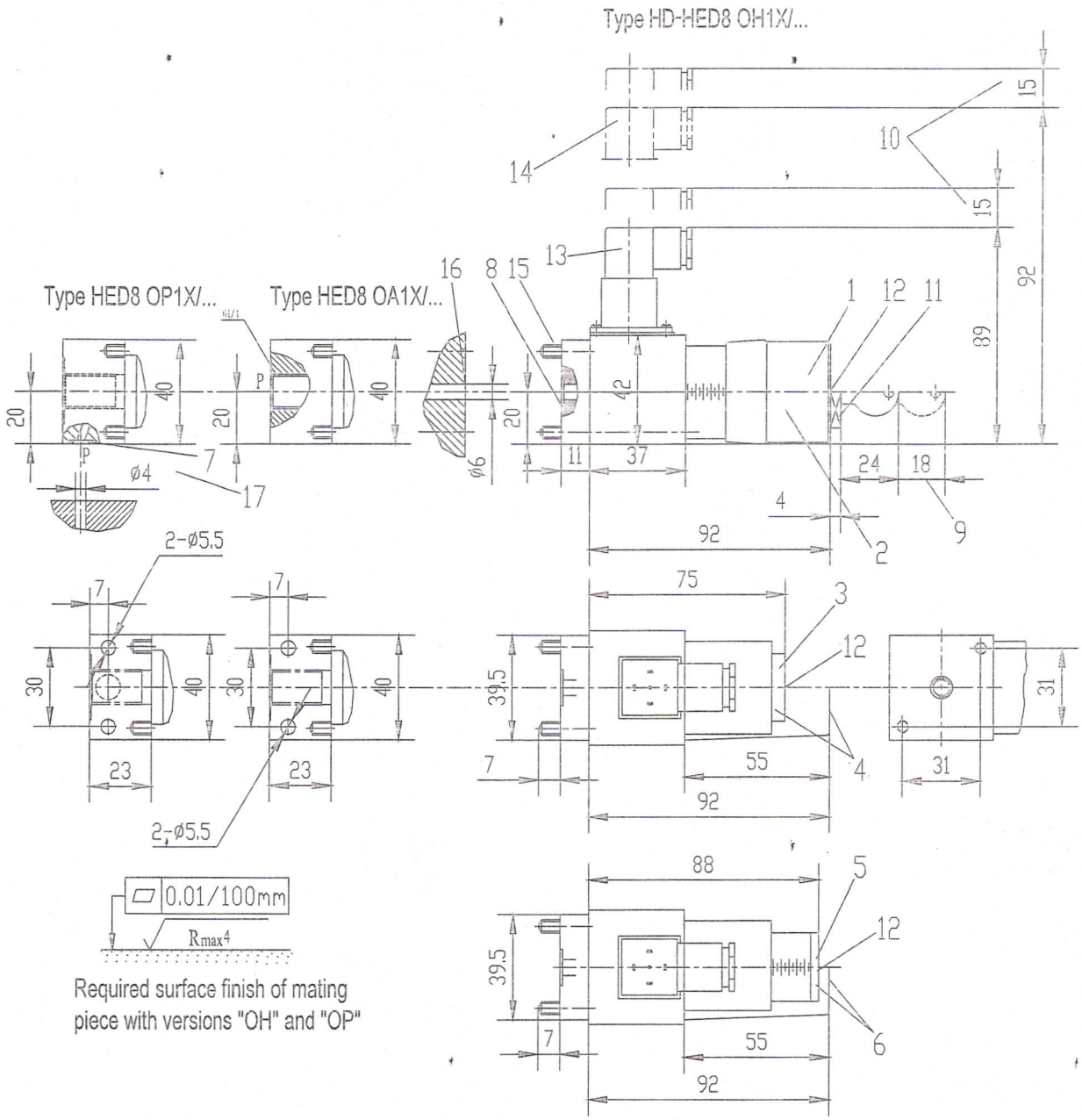






Unit dimensions: type HD-HED8...

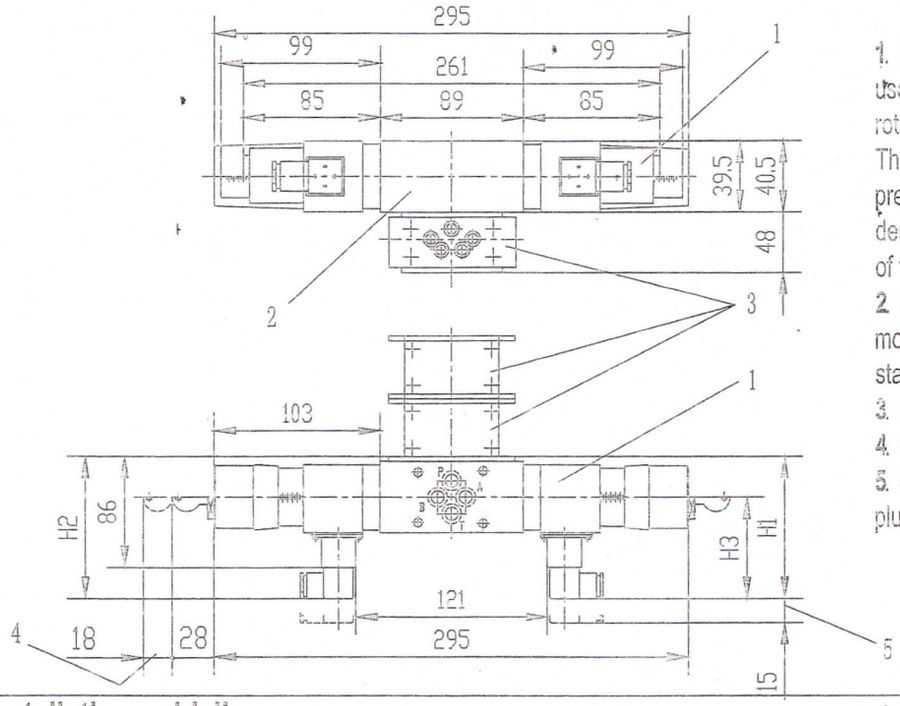
(Dimensions in mm)



Required surface finish of mating piece with versions "OH" and "OP"

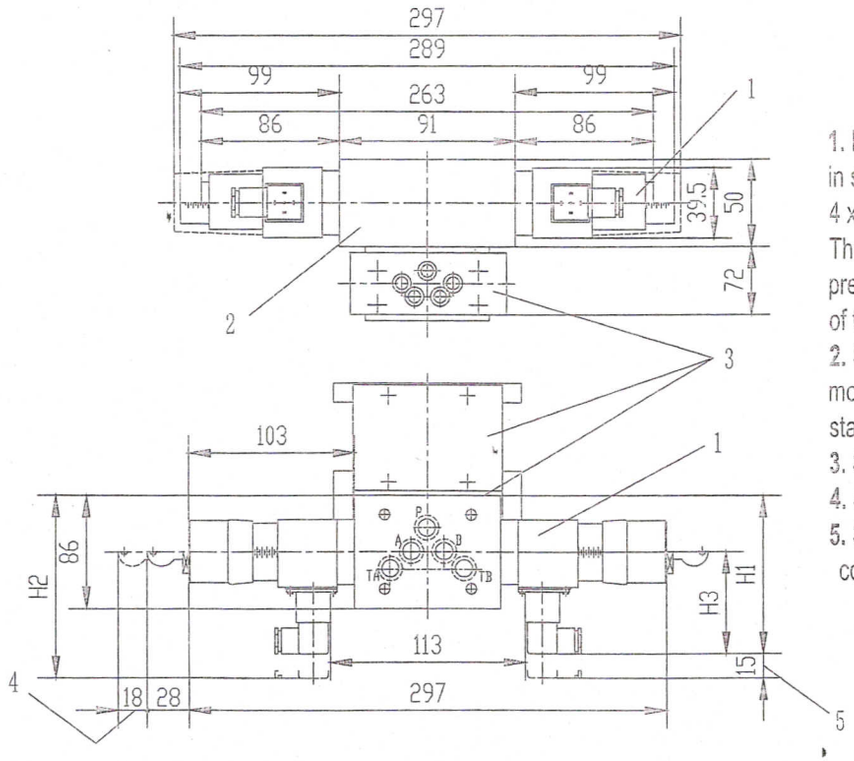
1 Adjustment element "KW"
2 Adjustment element "KS"
3 Adjustment element "-"
4 Adjustment element "S"
5 Adjustment element "A"
6 Adjustment element "AS"
7 R-ring 5,28 x 1.78 x 1.78
8 O-ring 11 x 1.5
(R-ring 11.18 x 1.6 x 1.78) 2)
9 Space required to remove the key
10 Space required to remove the plug-in connector
11 Hexagon A/F 27 (adjustment element "KS")
12 Hex. socket A/F 10
13 Plug-in connector without circuitry to DIN 43 650 1)
14 Plug.in connector with circuitry to DIN 43 650 1)
15 2 off fixing screws M5 x 12 (M5 x 16) 2)
DIN 912-10.9, tightening torque *MA* = 8.9 Nm
(included within the scope of supply).
16 Maximum diameter of the mounting surface
of the mating piece (type HED 8 **OH**1X/?
17 Maximum diameter of the mounting surface
of the mating piece (type HED 8 **OP**1X/?
Valve fixing screws (types HED 8 **OA** and HED 8 **OP**) M5 x 50
DIN 912-10.9, tightening torque *MA* = 8.9 Nm,must be ordered separately.
1) Must be ordered separately, see page 2.
2) Details for ( ) **only** for pressure stage 63 MPa!

Installation guidelines: for applying the pressure switch HED8 in stacking assemblies NS 6 (Dimensions in mm)



1. Pressure switch HED 8 OH... for use in stacking assemblies (can be rotated 4 x 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 key
5. Space required to remove the plug-inconnector

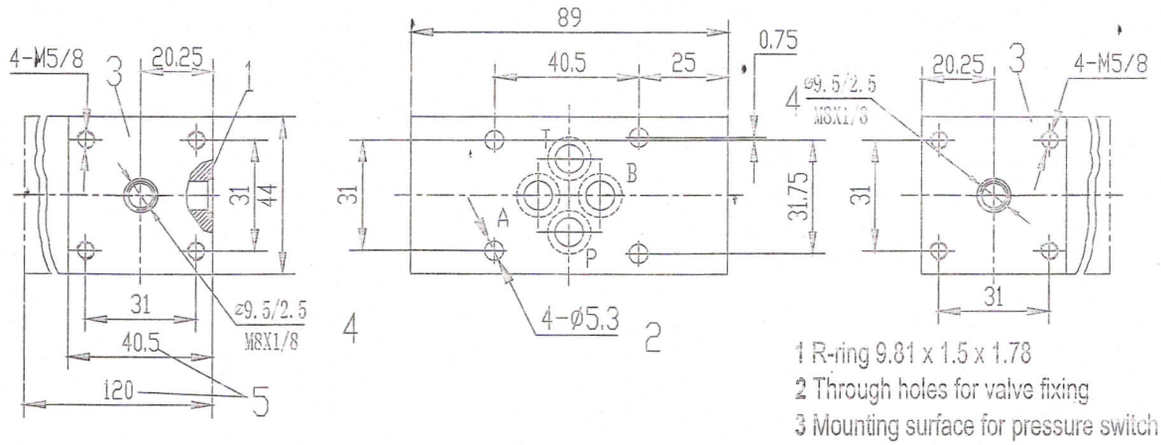
Installation guidelines: for applying the pressure switch type HD-HED8... in stacking assemblies NS 10 (Dimensions in mm)



1. Pressure switch HED 8 OH?for use in stacking assembles (can be rotated 4 x 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 key
5. Space required to remove the plug-in connector

		H1	H2	H3
Nom. size 6	Plug-in connector without circuitry	91	102	69
	Plug-in connector with circuitry	94	105	72
Nom. size 10	Plug-in connector without circuitry	104	112	69
	Plug-in connector with circuitry	107	115	72

Sandwich plate Ns 6: for applying the pressure switch type HD-HED8... as a vertical stacking element (up to 35MPa) (Dimensions in mm)

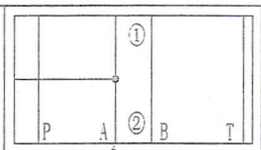
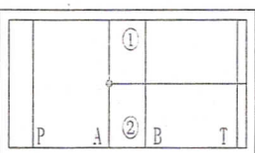
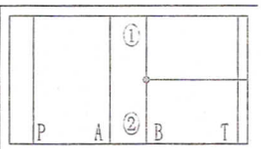
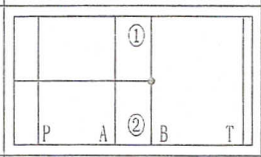
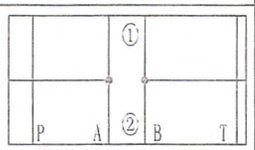
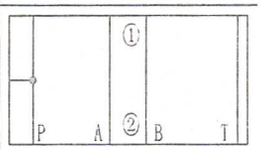


1 R-ring 9.81 x 1.5 x 1.78
2 Through holes for valve fixing
3 Mounting surface for pressure switch
4 Measuring port, optional
5 Plate height 40.5 mm or 120 mm, optional
Sandwich plates must be ordered separately.

HSZ	06	A	3X	00	*

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

Sandwich plate NS 6: symbols, version no. (version no. in () for 120 mm plate height!)
(1 = component side, 2 = subplate side)

Pressure switch effective in channel?			
Version no.	608 (627)	609 (628)	601 (620)
Pressure switch effective in channel?			
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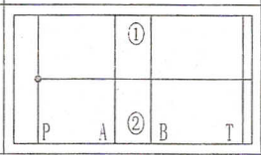
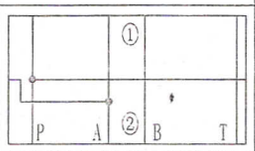
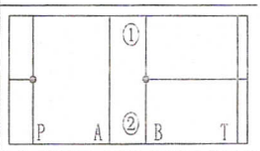
Pressure switch effective in channel?			
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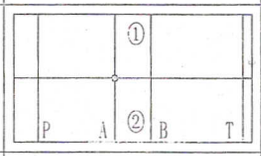
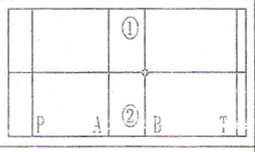
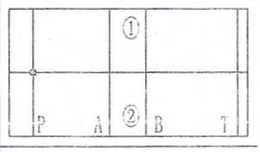
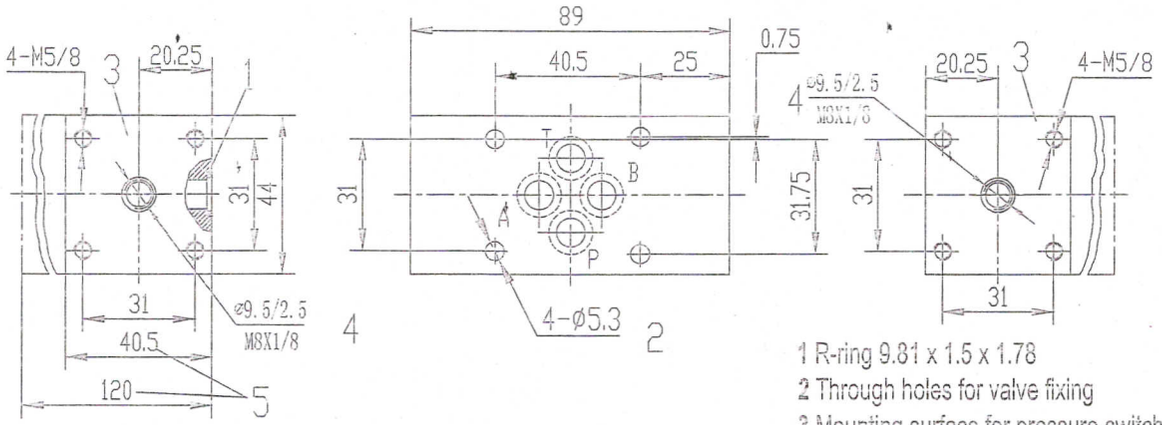
Pressure switch effective in channel?			
Version no.	610 (629)	611 (630)	612 (631)

Sandwich plate Ns 6: for applying the pressure switch type HD-HED8... as a vertical stacking element (up to 35MPa) (Dimensions in mm)



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2 Through holes for valve fixing
3 Mounting surface for pressure switch
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5 Plate height 40.5 mm or 120 mm, optional
Sandwich plates must be ordered separately.

HSZ	06	A	3X	00	*

- Sandwich plate
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- Further details in clear text
- M = NBR seals
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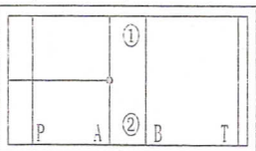
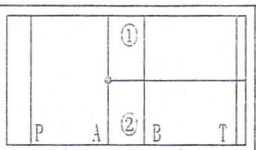
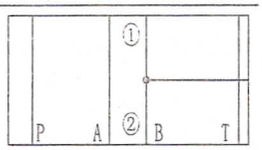
Pressure switch effective in channel?			
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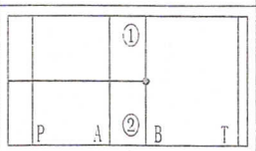
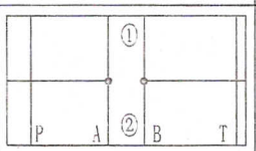
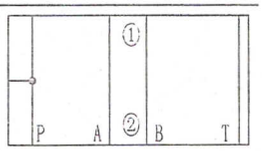
Pressure switch effective in channel?			
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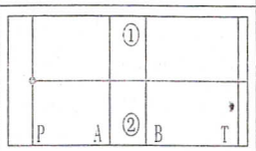
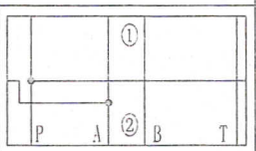
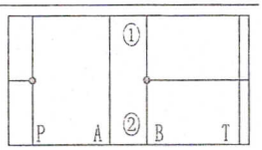
Pressure switch effective in channel?			
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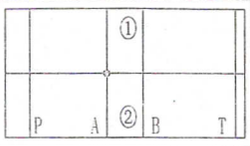
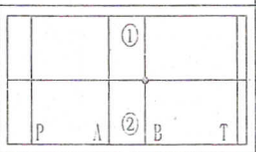
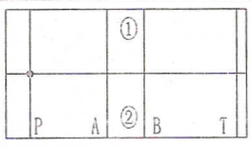
Pressure switch effective in channel?			
Version no.	610 (629)	611 (630)	612 (631)

ANNOTATIONS :

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