

Power.  
Movement.  
Dynamics.



## High pressure / low pressure switching valve ZHD / ND

Intermediate plate NG 6  
NG 10 "3-way pressure control"  
Max. 80 l/min

  
**WEBER-HYDRAULIK**  


# High Pressure/Low Pressure Switching Valve ZHD/ND

Intermediate plate NG 6, NG 10 " 3-way pressure control " max. 80 l/min



## Description

With the ZHD/ND high-pressure/low-pressure switching valve, you can choose between two pressures for the continuing P-channel:

High pressure (HD) = inlet pressure in the P-channel  
Low pressure (ND) = set pressure of the

### Pressure Control Valve

The changeover is carried out electrically via a 2/2-way poppet valve. The low pressure is given when the poppet valve is open and the control oil of the pressure control valve can flow down to the tank (T-channel). Oil flows into the continuing P-channel until the set pressure is reached and the pressure control valve closes. If the set pressure is not reached,

opens the valve again. When switching to high pressure, the pressure regulator is out of order, the oil can flow through the intermediate plate with little resistance. The poppet valve has the rest position "open without power" as standard, but is also available as "closed without power".

## Specifications

For measurement parameters and standards,

### Hydraulic parameters

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| Working pressure:        | max. 315 bar                                    |
| Flow:                    | NG 6: max. 40 l/min<br>NG 10: max. 80 l/min     |
| Control pressure ranges: | see                                             |
| Type keys. Pressure      | on port T adds directly to the setting value.   |
| Operating media:         | Mineral oils according to DIN 51524,            |
| Viscosity range:         | Others on request<br>10 – 350 cSt               |
| Filtration:              | Class 18/16/13, filter $\beta$ 6...10 ! 75      |
| Control oil:             | NG 6: max. 0,20 l/min<br>NG 10: max. 0,25 l/min |

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| Seals:              | NBR, optional Viton<br>Stützringe: Teflon, PU               |
| Protective coating: | Housing: anodized<br>Ex. valve parts: galvanized, burnished |

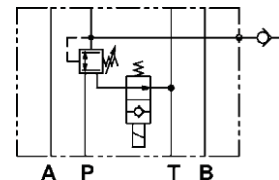
### Electrical parameters

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Nominal voltage:            | 24 V DC, 12 V DC; $\pm 10$                                               |
| % Nominal Resistance (R20): | 24 V: 26 %;<br>12 V: 8 %                                                 |
| Power Consumption:          | max. 22 W                                                                |
| duty cycle:                 | 100% ED                                                                  |
| Protection:                 | IP 65                                                                    |
| El. Connection:             | Appliance plug according to DIN 43650 Form A, incl. appliance socket Pg9 |

### Mechanical parameters

|                        |                                         |
|------------------------|-----------------------------------------|
| Ambient temperature:   | -20 °C – +50 °C                         |
| Medium temperature:    | -20 °C – +80 °C                         |
| Installation position: | any                                     |
| Weight:                | NG 6: 1,20 kg; NG 10: 2,10 kg           |
| Materials:             | Valve Parts: Steel<br>Housing: Aluminum |

### Symbolic image



## Available versions / type code

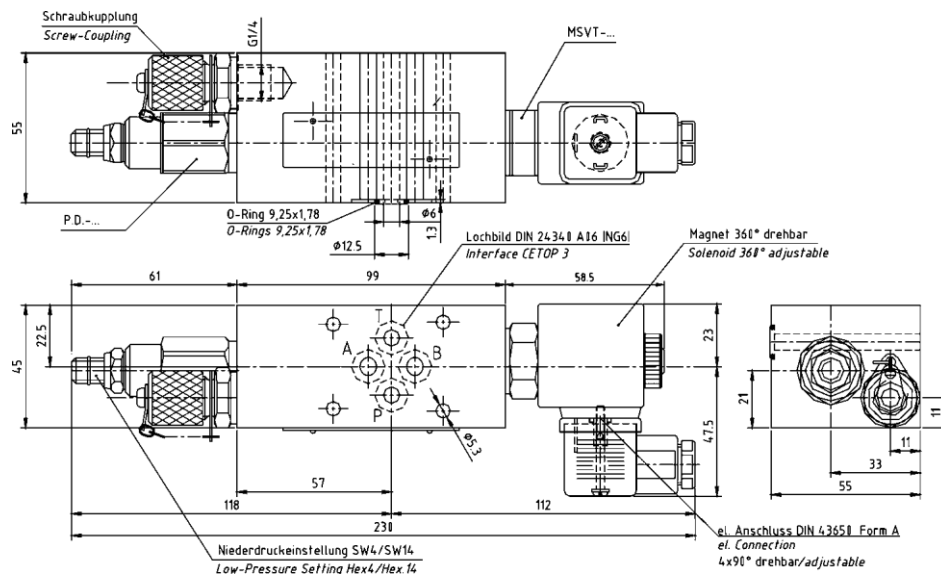
| ZHD/ND-06                  | PPDB                   | L                                                      | A                | N                             | 24V                        |
|----------------------------|------------------------|--------------------------------------------------------|------------------|-------------------------------|----------------------------|
| High-pressure/low-pressure | 3-way pressure control |                                                        |                  |                               | Solenoid Seat              |
| Available versions:        | Type                   | Brokered                                               | Print            | Seals                         |                            |
| NG 6 (DIN 24340 A06)       | PPDB (NG6)             | L = Bolt with A = 8 – 210 bar Lock nut B = 6 – 105 bar | E = 4 – 25 bar   | N = NBR<br>V = Viton (Option) | 24V = 24 V DC open without |
| NG 10 (DIN 24340 A10)      | PPFB (NG10)            | K = Handwheel with Konterrad                           | W = 12 – 315 bar |                               | 24VSG = 24 V DC dead       |
|                            |                        | C = adjustment protection predefined                   |                  |                               | 12V = closed 12 V DC dead  |
|                            |                        |                                                        |                  |                               | open                       |

## Dimensions

The delivery is complete. with "Minimess" coupling M 16 x 2

### ZHD/ND-06-...

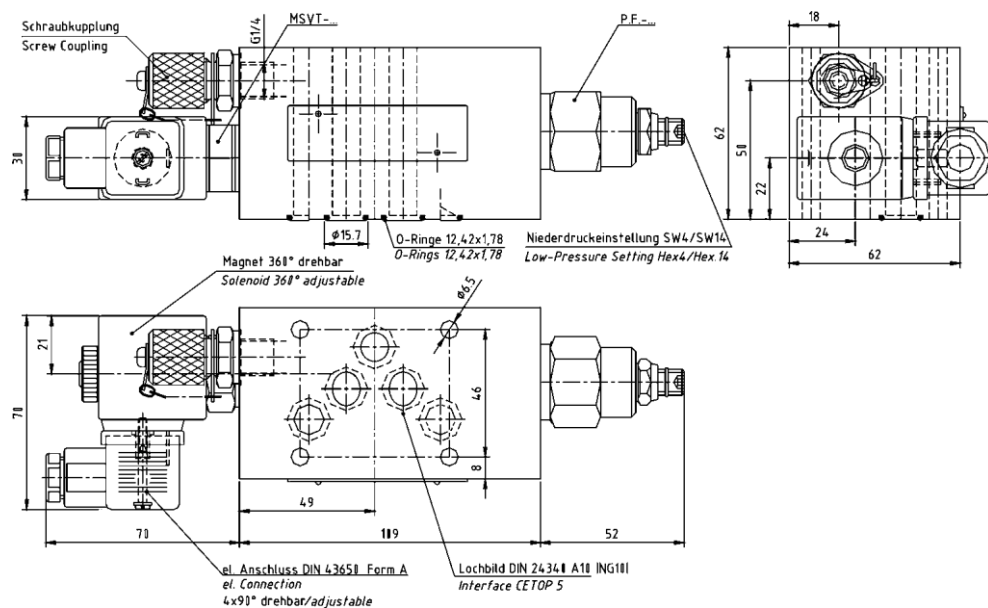
### NG 6



H3-003701

### ZHD/ND-10-...

### NG 10



H3-021402



