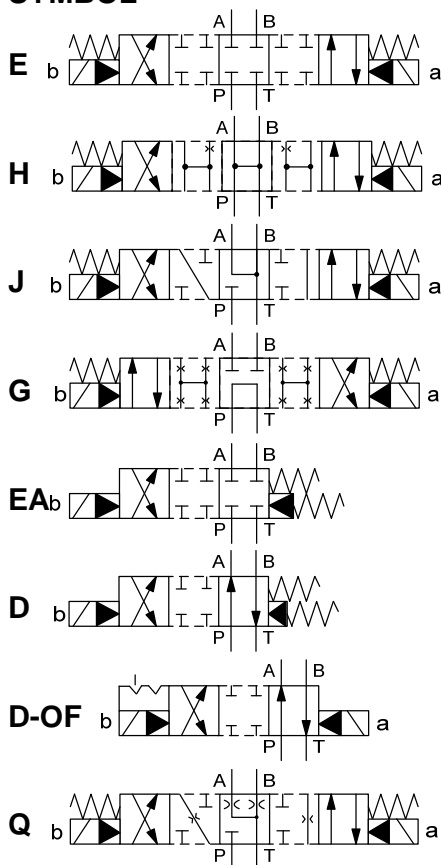




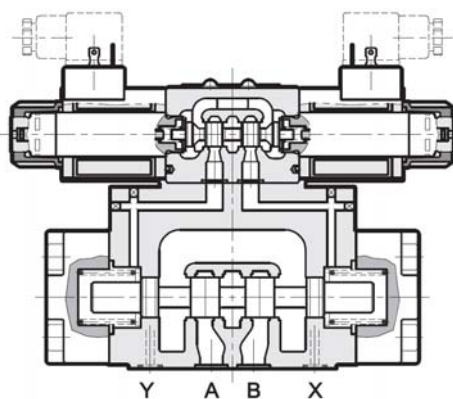
## 4/3-Directional control valve electro-hydraulically operated 4WEH I 25 / 4WEH EI 25

### SYMBOL



up to 600 l/min  
up to 320 bar

### FUNKTION



### FEATURES

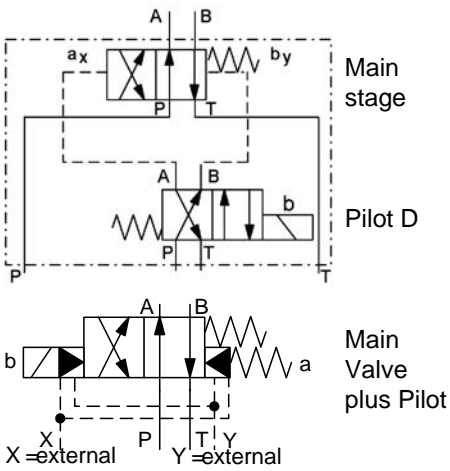
- Electro-hydraulically operated by pilot valve NW6
- Flows up to 600l/min
- Internal or external pilot supply and drain line selectable by internal plug setting

### SPECIFICATIONS

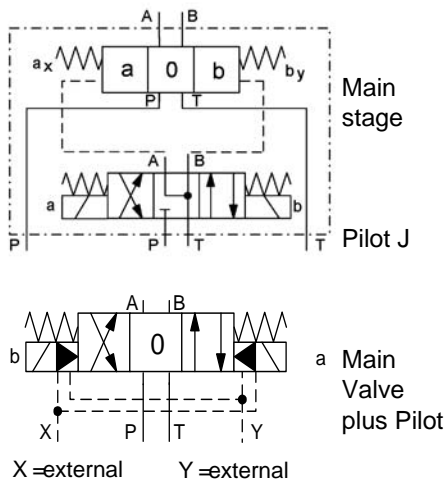
Nominal pressure:	max. 320 bar
Flow-rate:	
Symbols E, H, J, EA, Q, D, D-OF	max. 600 l/min at 210 bar (500 l/min at 320 bar)
Symbol G:	max. 500 l/min at 210 bar (450 l/min at 320 bar)
Control pressure:	min. 5 up to max. 210 bar
Pressure in line T: (with internal drain)	max. 140 bar
Pressure in line T: (with external drain)	max. 210 bar
Fluids:	Hydraulic oil to DIN 51524 part 1 and 2
Media operating temp. range:	-20°C up to max. +80°C
Ambient temperature range:	-20°C up to max. +50°C
Viscosity range:	10 – 400 mm <sup>2</sup> /s is recommended
Filtration:	ISO 4406 class 20/18/15 or better
Weight:	15,6 kg incl. pilot valve with 2 coils 15,1 kg incl. pilot valve with 1 coil
<b>Electrics</b>	
Type of voltage: DC	
Voltage tolerance:	±10%
Nominal power:	30W (12V / 2,5A) resp. 32W (24V / 1,33A)
Switch-on time:	Main stage: 40 ms up to 100 ms Main stage 40 ms up to 80 ms (Control pressure 100bar)
Coil duty rating:	100%
Electrical connection:	plug according to DIN 43650
IP rating:	IP 65 nach EN 60529; DIN 40050 with correctly fitted connector

### Example for the assembly with pilot valve (optional)

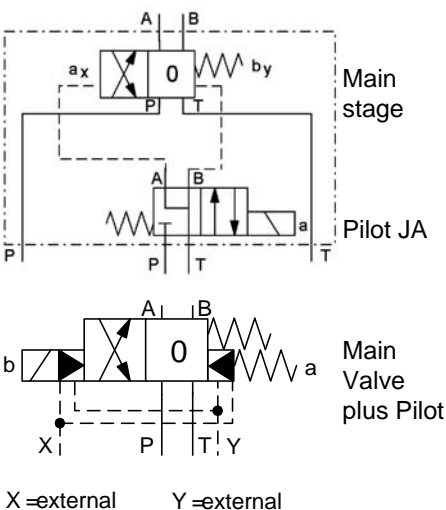
4/2 directional valve with spring offset Type 4WEH 25, 32



4/3 directional valve spring centered Type 4WEH 25, 32

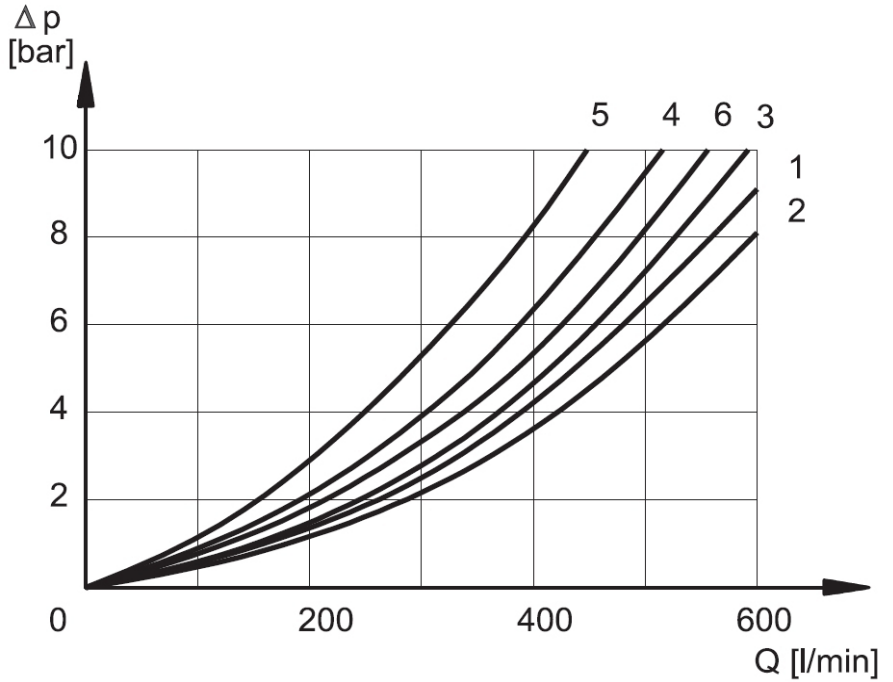


4/2 directional valve with spring offset Type 4WEH 25, 32



### PERFORMANCE

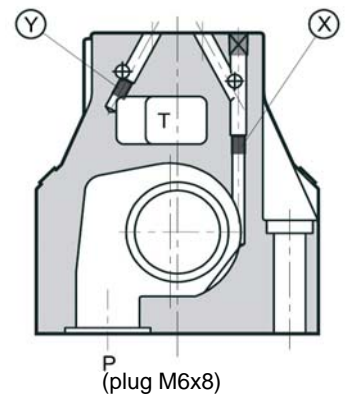
Measured at  $v = 33 \text{ mm}^2/\text{s}$  and  $T_{\text{oil}} = 46^\circ \text{C}$



Diagrams	Symbol	piston position	Ports				P -> T
			P -> A	P -> B	A -> T	B -> T	
E	not operated						
	operated	1	1	2	3		
H	not operated						*6
	operated	2	2	1	2		
J	not operated			4•	4○		
	operated	1	1	1	4		
G	not operated						5
	operated	6	6	3	4		
Q	not operated						
	operated	1	1	2	3		
EA	not operated						
	operated	-	1	2	-		
D/OF	operated	1	1	4	3		
		* A-B blocked	• B blocked	○ A blocked			

Valve type	Plug setting	
	X	Y
<b>IE</b> Internal pilot supply and external drain	no plug	plug
<b>I</b> Internal pilot supply and drain	no plug	no plug
<b>E</b> External pilot supply and drain	plug	plug
<b>EI</b> External pilot supply and internal drain	plug	no plug

### Cross section for plug setting



<b>Standard models</b>	<b>Part no.</b>
4WEH I 25 D S01-24DG/V	3640249
4WEH I 25 E S01-24DG/V	3640233
4WEH I 25 G S01-24DG/V	3640248
4WEH I 25 H S01-24DG/V	3640247
4WEH I 25 J S01-24DG/V	3640234
Other types on request	

## MODEL CODE

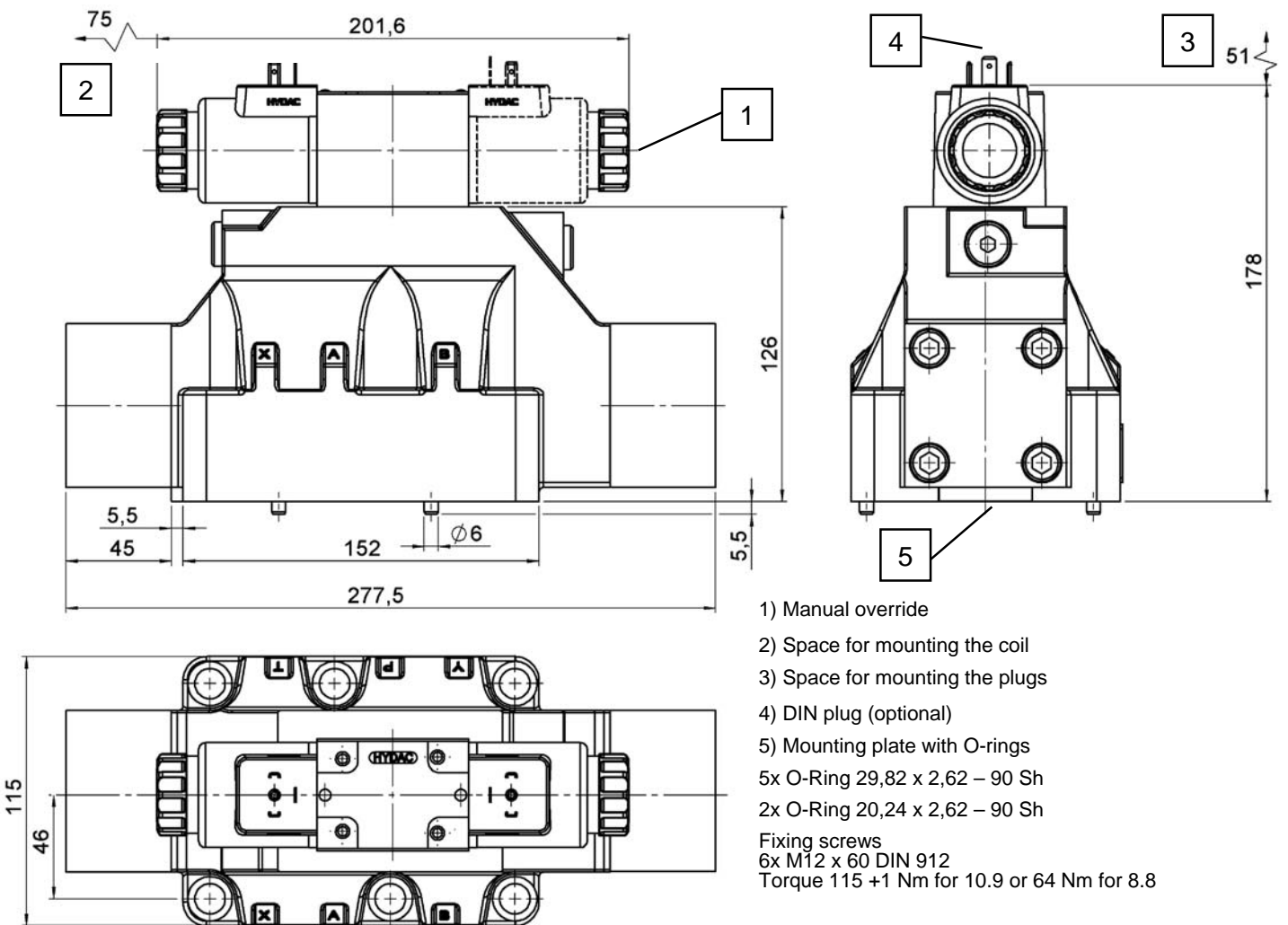
	<b>4WEH I 25 E S01 -24DG / V</b>
<b>Name</b>	_____
4/2- resp. 4/3-directional spool valve with pilot spool valve	
<b>Pilot supply and drain</b>	_____
I = internal pilot supply and drain EI = external pilot supply, internal drain E = external pilot supply and drain IE = internal pilot supply, external drain	
<b>Nominal size</b>	_____
25 = NW 25	
<b>Symbol</b>	_____
Available Symbols: E, J, G, H, Q, D, EA, D-OF	
<b>Types</b>	_____
S01 = Standard	
<b>Nominal voltage and plug</b>	_____
12 = 12 Volt DC 24 = 24 Volt DC DG: DIN plug according to EN 175301-803 DO: M12x1 plug	
<b>Seals</b>	_____
V = FKM (Standard) N = NBR	

## Electro-hydraulic pilot control

### FUNCTION

HYDAC 4/2 und 4/3 directional valves for oil hydraulic systems are to open and close flow paths. In de-energized mode the main piston will be retained by a spring in the initial position. An under oil switching magnet pushes the pilot piston in its end position whereby the main piston – hydraulically operated – moves to his end position. Hereby the chosen flow paths will be enabled according to the symbol of the valve. After switching-off the solenoid the pilot piston will be pushed back in its initial position by the spring. A manual override allow the switching of the pilot valve without erection of the solenoid.

## DIMENSIONS



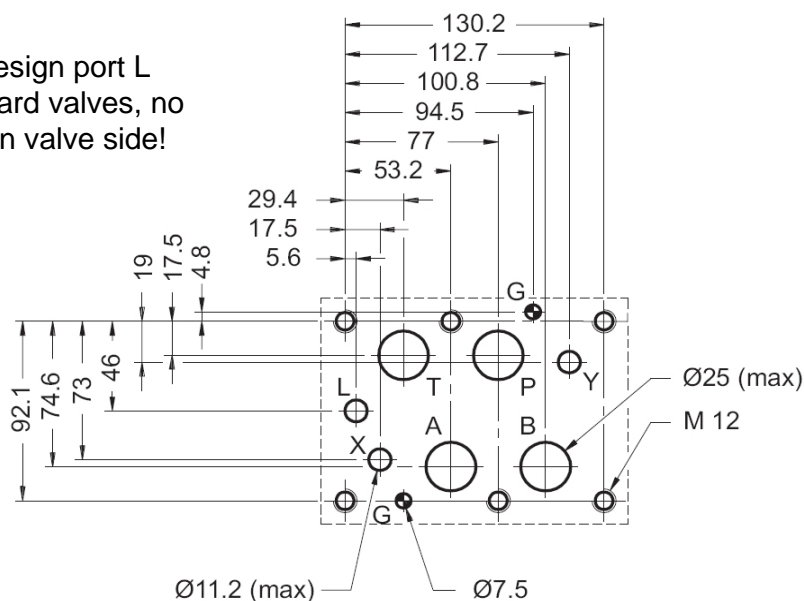
- 1) Manual override
- 2) Space for mounting the coil
- 3) Space for mounting the plugs
- 4) DIN plug (optional)
- 5) Mounting plate with O-rings

5x O-Ring 29,82 x 2,62 – 90 Sh  
 2x O-Ring 20,24 x 2,62 – 90 Sh  
 Fixing screws  
 6x M12 x 60 DIN 912  
 Torque 115 +1 Nm for 10.9 or 64 Nm for 8.8

All dimensions in mm.  
 Fixing elements are not in the scope of supply.

## Hole pattern to ISO4401-08-07-0-05 (CETOP 4.2-4-08-320)

Do not design port L  
 for standard valves, no  
 sealing on valve side!



Annotation  
 The technical information in this brochure are relating to the operating conditions and applications. At deviant applications and/or operating conditions please contact the technical dept. Technical information are subject to technical modifications.

HYDAC Fluidtechnik GmbH  
 Justus-von-Liebig-Str. 5  
 66280 Sulzbach / Saar  
 Tel.: 06897 / 509 -0  
 Fax: 06897 / 509 -598  
 Email: flutec@hydac.com