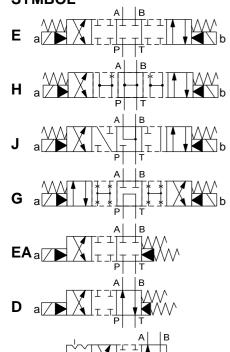


AC INTERNATIONAL



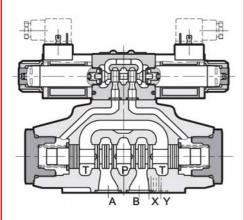
4/3-Directional control valve electro-hydraulically operated 4WEH I 16 / 4WEH EI 16

SYMBOL



up to 300 l/min up to 320 bar

FUNCTION



FEATURES

- Electro-hydraulically operated by pilot valve NW6
- Flows up to 300l/min
- Internal or external pilot supply and drain line selectable by internal plug setting

SPECIFICATIONS

(with external drain)

Nominal pressure: max. 320 bar

Flow-rate: max. 300 l/min (P nach A, B, T)
Control pressure: min. 12 up to max. 280 bar

Pressure in line T: max. 140 bar (with internal drain)

Pressure in line T: 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 mm²/s is recommended

Filtration: ISO 4406 class 20/18/15

or better

Weight: 8,6 kg incl. pilot valve with 2 coils 8,1 kg with pilot valve with 1 coil

Electrics

Type of voltage: DC Voltage tolerance: ±10°

Nominal power: 30W (12V / 2,5A) resp. 32W (24V /1,33A)

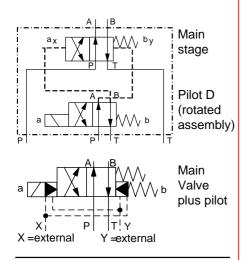
Switch-on time: Main stage: 45 ms up to 75 ms
Switch-off time: Main stage: 30 ms up to 60 ms
(Control pressure 100bar)

Coil duty rating: 100%

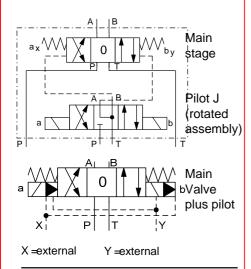
Electrical connection: plug according to DIN 43650
IP rating: IP 65 nach EN 60529; DIN 40050
with correctly fitted connector

Example for the assembly with pilot valve (optional)

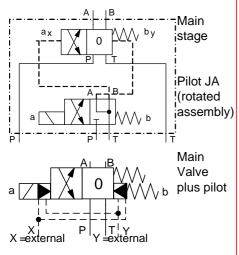
4/2 directional valve with spring offset Type 4WEH 10, 16



4/3 directional valve spring centered Type 4WEH 10, 16

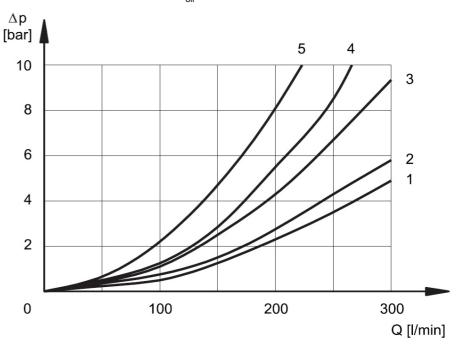


4/2 directional valve with spring offset Type 4WEH 10, 16



PERFORMANCE

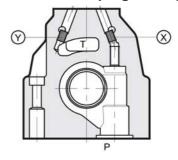
Measured at $v = 33 \text{ mm}^2\text{/s}$ and $T_{oil} = 46^{\circ} \text{ C}$



Symbol	piston position			Ports	
		P -> A	P -> B	A -> T	B -> T
Е	not operated				
	operated	1	1	3	4
Н	not operated				
	operated	1	1	4	4
J	not operated				
	operated	1	1	4	4
G	not operated				
	operated	2	2	4	5
Q	not operated				
	operated	1	1	3	4
EA	not operated				
	operated	-	1	3	-
HA	not operated				
	operated	-	1	4	-
JA	not operated				
	operated	-	1	4	-
GA	not operated				
	operated	2	-	-	5
D	not operated				
	operated	1	1	3	4
D/OF	operated	1	1	3	4

Valve type		Plug setting X Y	
IE	Internal pilot supply and external drain	no plug	plug
ı	Internal pilot supply and drain	no plug	no plug
Ε	External pilot supply and drain	plug	plug
EI	External pilot supply and internal drain	plug	no plug

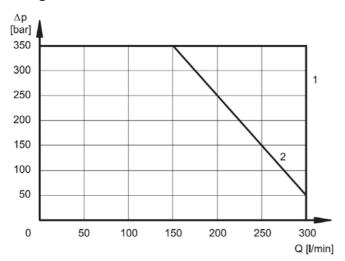
Cross section for plug setting



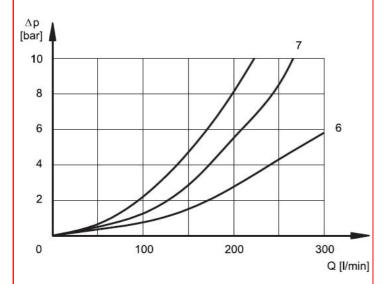
(X: plug M6x8 for external controlsY: plug M6x8 for external drain)

Standard models Part no. 4WEH I 16 D S01 - 24DG/V 3640299 4WEH I 16 E S01 - 24DG/V 3640284 4WEH I 16 G S01 - 24DG/V 3640274 4WEH I 16 H S01 - 24DG/V 3640273 4WEH I 16 J S01 - 24DG/V 3640295 Other types on request

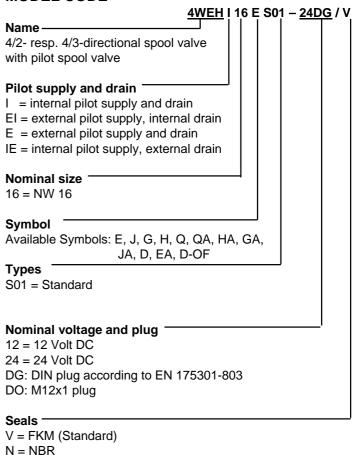
Range



,	РΑ	РΒ
Е	1	1
Н	1	1
J	1	1
G	2	2
Q	1	1
D	1	1



MODEL CODE



Electro-hydraulic pilot control

FUNCTION

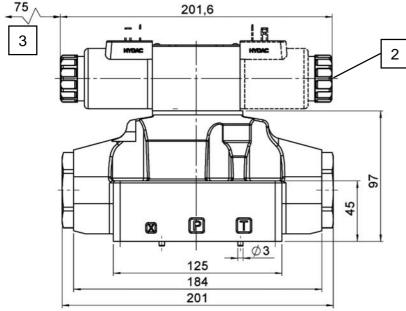
HYDAC 4/2 und 4/3 directional valves for oil hydraulic systems are to open and close flow paths. In de-energized mode the main piston will be retained by a spring in the initial position. An under oil switching magnet pushes the pilot piston in its end position whereby the main piston – hydraulically operated – moves to his end position.

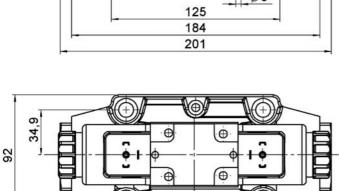
Hereby the chosen flow paths will be enabled according to the symbol of the valve. After switching-off the solenoid the pilot piston will be pushed back in its initial position by the spring. A manual override allow the switching of the pilot valve without erection of the solenoid.

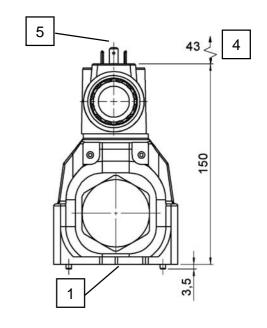
Flow loss of the valve in central position

	Direction of flow					
	P-A	P-B	A-T	В-Т	P-T	
		Curve	S		- 45	
H, HA, HB					6	
J, JA, JB			7	7		
G, GA, GB					7	

DIMENSIONS







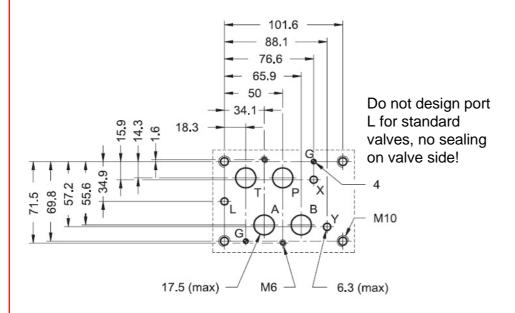
- 1) Mounting plate with O-rings
- 2) Manual override
- 3) Space for mounting the coil
- 4) Space for mounting the plugs
- 5) DIN plug (optional)

Fixing screws 4x M10 x 60 DIN 912 Torque 67 +5 Nm for 12.9 or 40 Nm for 8.8 2x M6 x 50 DIN 912 Torque 14 +1 Nm for 12.9 or 8 Nm for 8.8

O-rings hole pattern 4x O-Ring 22,22 x 2,62 – 90 Sh 2x O-Ring 10,82 x 1,78 – 90 Sh

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

Hole pattern to ISO 4401-07-06-0-05



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.

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