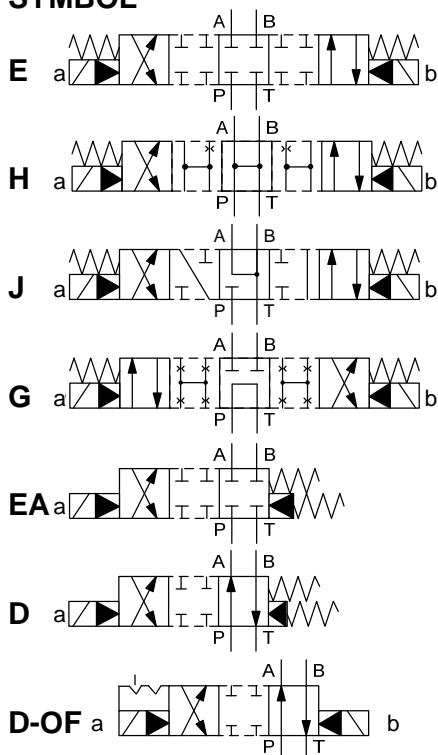




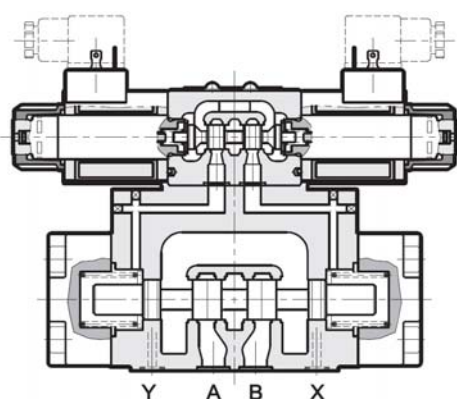
4/3-Directional control valve electro-hydraulically operated 4WEH I 10 / 4WEH EI 10

SYMBOL



up to 150 l/min
up to 320 bar

FUNCTION



FEATURES

- Electro-hydraulically operated by pilot valve NW6
- Flows up to 150l/min
- Internal or external pilot supply and drain line selectable by internal plug setting

SPECIFICATIONS

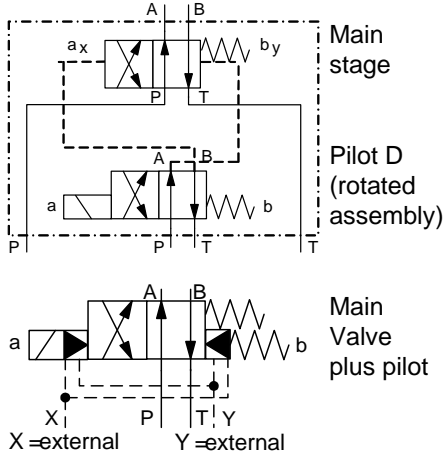
Nominal pressure:	max. 320 bar
Flow-rate:	
Symbols E, H, J, EA, Q, D, D-OF	max. 150 l/min at 210 bar (120 l/min at 320 bar)
Symbol G:	max. 120 l/min at 210 bar (100 l/min at 320 bar)
Control pressure:	min. 5 up to max. 210 bar
Pressure in line T: (with internal drain)	max. 140 bar
Pressure in line T: (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 ² /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 incl. pilot valve with 1 coil

Electrics

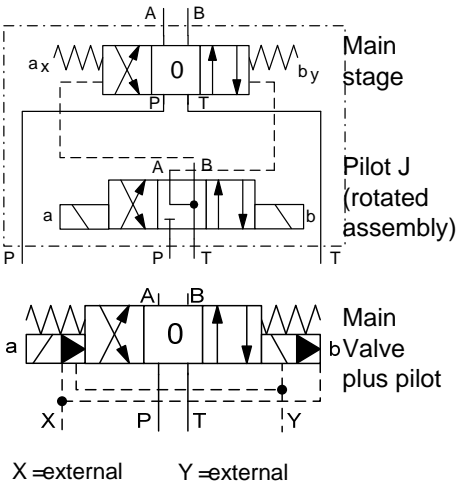
Type of voltage:	DC
Voltage tolerance:	±10%
Nominal power:	30W (12V / 2,5A) resp. 32W (24V / 1,33A)
Switch-on time:	Main stage: 50 ms up to 60 ms
Switch-off time:	Main stage: 40 ms up to 50 ms (Control pressure 100bar)
Coil duty rating:	100%
Electrical connection:	plug according to DIN 43650
IP rating:	IP 65 nach EN 60529; DIN 40050 with correctly fitted connector

Example for the assembly with pilot valve (optional)

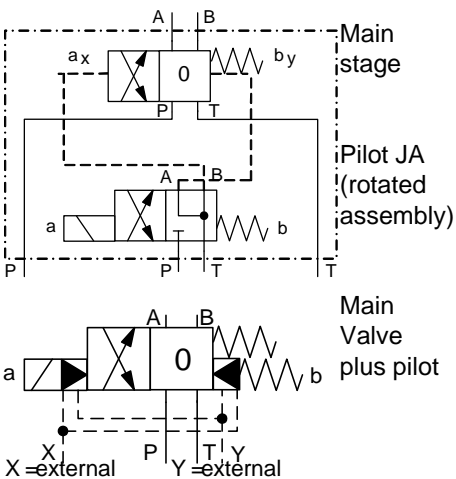
4/2 directional valve with spring offset Type 4WEH 10, 16



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

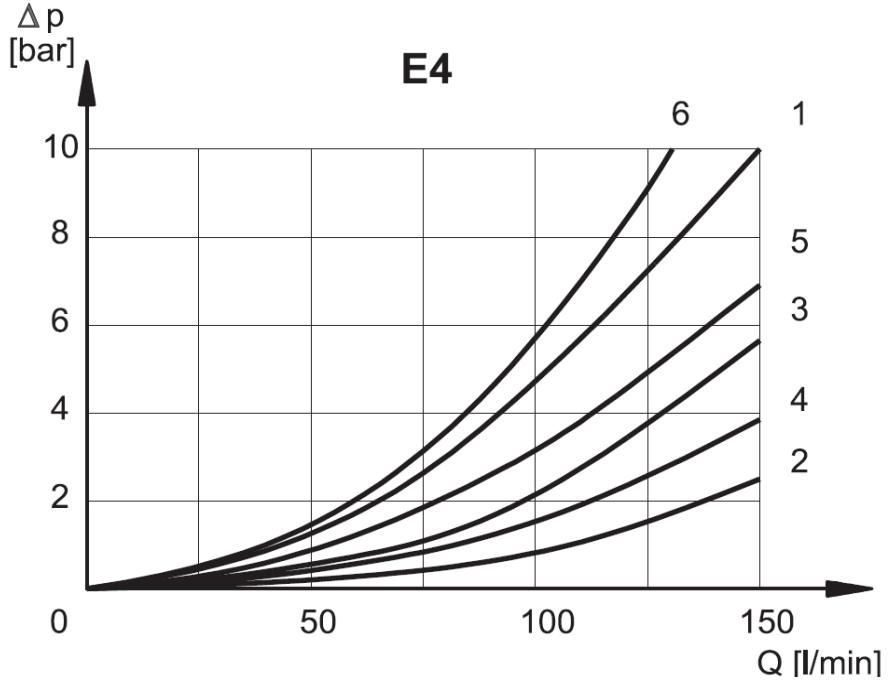


4/2 directional valve with spring offset Type 4WEH 10, 16



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	P -> T
E	not operated					
	operated	1	1	2	3	
H	not operated					*6
	operated	5	5	2	4	
J	not operated			1•	1○	
	operated	1	1	1	4	
G	not operated					6
	operated	6	6	3	5	
Q	not operated					
	operated	1	1	2	2	
EA	not operated					
	operated	-	1	2	-	
HA	not operated					*6
	operated	-	5	2	-	
JA	not operated			1•	1○	
	operated	-	1	1	-	
GA	not operated					6
	operated	6	-	-	5	
QA	not operated					
	operated	-	1	2	-	
D	not operated	1	-	-	3	
	operated	-	1	4	-	
D/OF	operated	1	1	4	3	
		* A-B blocked	•B blocked	○A blocked		

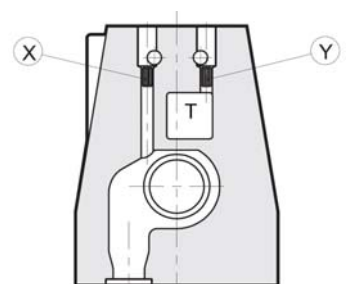
Valve type

Plug setting
X Y

- IE** Internal pilot supply and external drain
- I** Internal pilot supply and drain
- E** External pilot supply and drain
- EI** External pilot supply and internal drain

no plug	plug
no plug	no plug
plug	plug
plug	no plug

Cross section for plug setting



(plug M5x6)

Models on request	Part no.
4WEH I 10 E S01-24DG/V	3604886
4WEH I 10 J S01-24DG/V	3604887
4WEH I 10 G S01-24DG/V	3604890
4WEH I 10 H S01-24DG/V	3604888
4WEH I 10 D S01-24DG/V	3604892
4WEH I 10 EA S01-24DG/V	3604893
4WEH I 10 D-OF S01-24DG/V	3604894
Other types on request	

MODEL CODE

	4WEH	I	10	E	S01	-24DG	/V
Name							
4/2- resp. 4/3-directional spool valve with pilot spool valve							
Pilot supply and drain							
I = internal pilot supply and drain EI = external pilot supply, internal drain E = external pilot supply and drain IE = internal pilot supply, external drain							
Nominal size							
10 = NW 10							
Symbol							
Available Symbols: E, J, G, H, Q, D, EA, D-OF							
Types							
S01 = Standard So2 = Hole pattern 4401 (on request)							
Nominal voltage and plug							
12 = 12 Volt DC 24 = 24 Volt DC DG: DIN plug according to EN 175301-803 DO: M12x1 plug							
Seals							
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.

