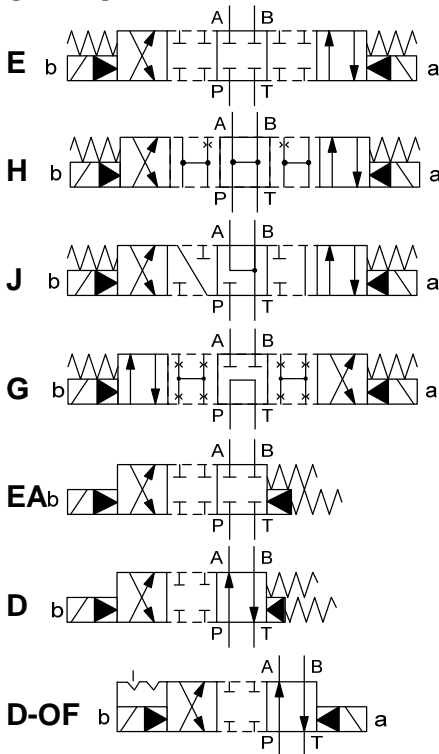




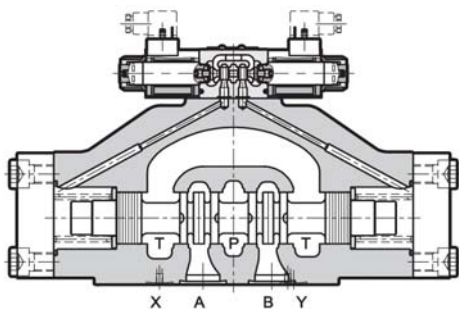
4/3-Directional control valve electro-hydraulically operated 4WEH I 32 / 4WEH EI 32

SYMBOL



up to 1100 l/min
up to 320 bar

FUNKTION



FEATURES

- Electro-hydraulically operated by pilot valve NW6
- Flows up to 1100 l/min
- Internal or external pilot supply and drain line selectable by internal plug setting

SPECIFICATIONS

Nominal pressure:	max. 320 bar
SYMBOL E, H, J, EA, HA, JA	max. 1100 l/min at 100 bar (700 l/min at 350 bar)
D, D-OF	max. 900 l/min at 100 bar (600 l/min at 350 bar)
Symbol G, GA:	min. 12 up to max. 280 bar max. 140 bar
Control pressure:	
Pressure in line T: (with internal drain)	max. 210 bar
Pressure in line T: (with external drain)	
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

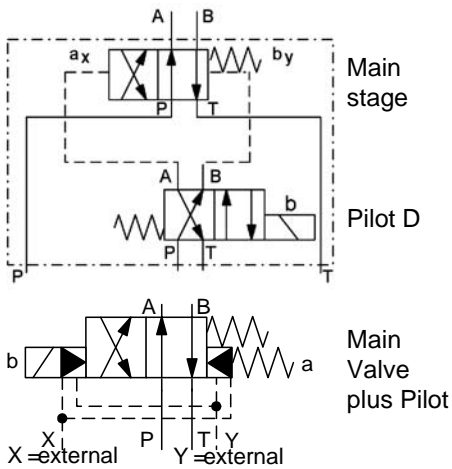
Weight: 50 kg incl. pilot valve with 2 coils
49,5 kg incl. pilot valve with 1 coil

Electrics

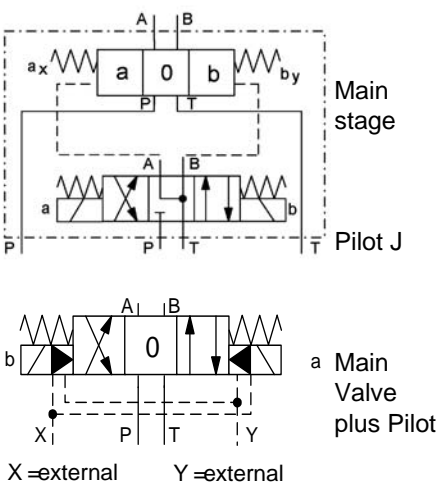
Type of voltage: DC	
Voltage tolerance:	±10%
Nominal power:	30W (12V / 2,5A) resp. 32W (24V / 1,33A)
Switch-on time:	Main stage: 50 ms up to 60 ms Main stage: 40 ms up to 50 ms
Coil duty rating:	100%
Electrical connection:	plug according to DIN 43650
IP rating:	IP 65 nach EN 60529; DIN 40050 with correctly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

Example for the assembly with pilot valve (optional)

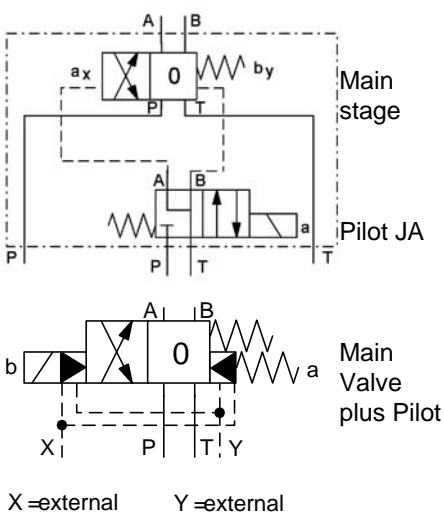
4/2 directional valve with spring offset Type 4WEH 25, 32



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

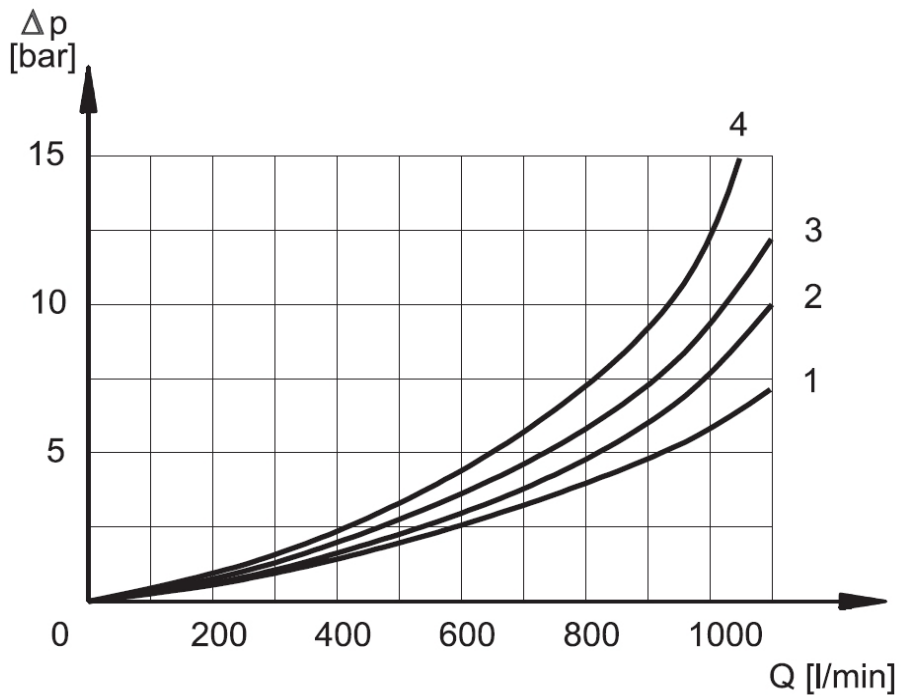


4/2 directional valve with spring offset Type 4WEH 25, 32

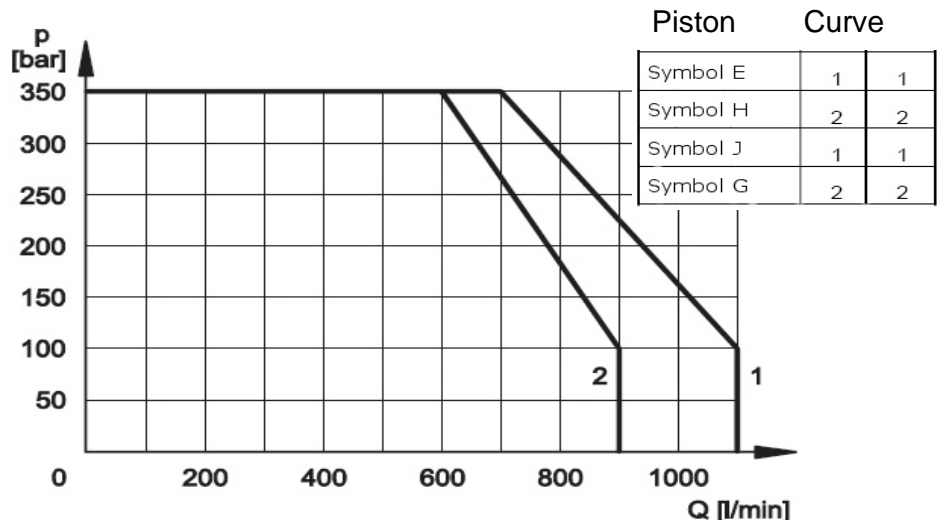


PERFORMANCE

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



Diagrams		Ports			
Symbol	piston position	P -> A	P -> B	A -> T	B -> T
E	not operated				
	operated	1	1	1	1
H	not operated				
	operated	2	2	2	2
J	not operated				
	operated	1	1	4	4
G	not operated				
	operated	2	2	2	2
EA	not operated				
	operated	-	1	1	-
HA	not operated				
	operated	-	2	2	-
JA	not operated				
	operated	-	1	4	-
GA	not operated				
	operated	2	-	-	2
D	not operated				
	operated	1	1	1	1
D/OF	not operated				
	operated	1	1	1	1



Standard models	Part no.
4WEH I 32 D S01-24DG/V	3640199
4WEH I 32 E S01-24DG/V	3640183
4WEH I 32 G S01-24DG/V	3640188
4WEH I 32 H S01-24DG/V	3640187
4WEH I 32 J S01-24DG/V	3640186
Other types on request	

MODEL CODE

4WEH I 32 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 _____
32 = NW 32

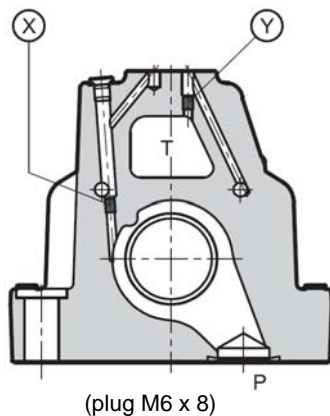
Symbol _____
Available Symbols: E, J, G, H, HA, GA, JA, D, EA, D-OF

Types _____
S01 = Standard

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

Cross section for plug setting



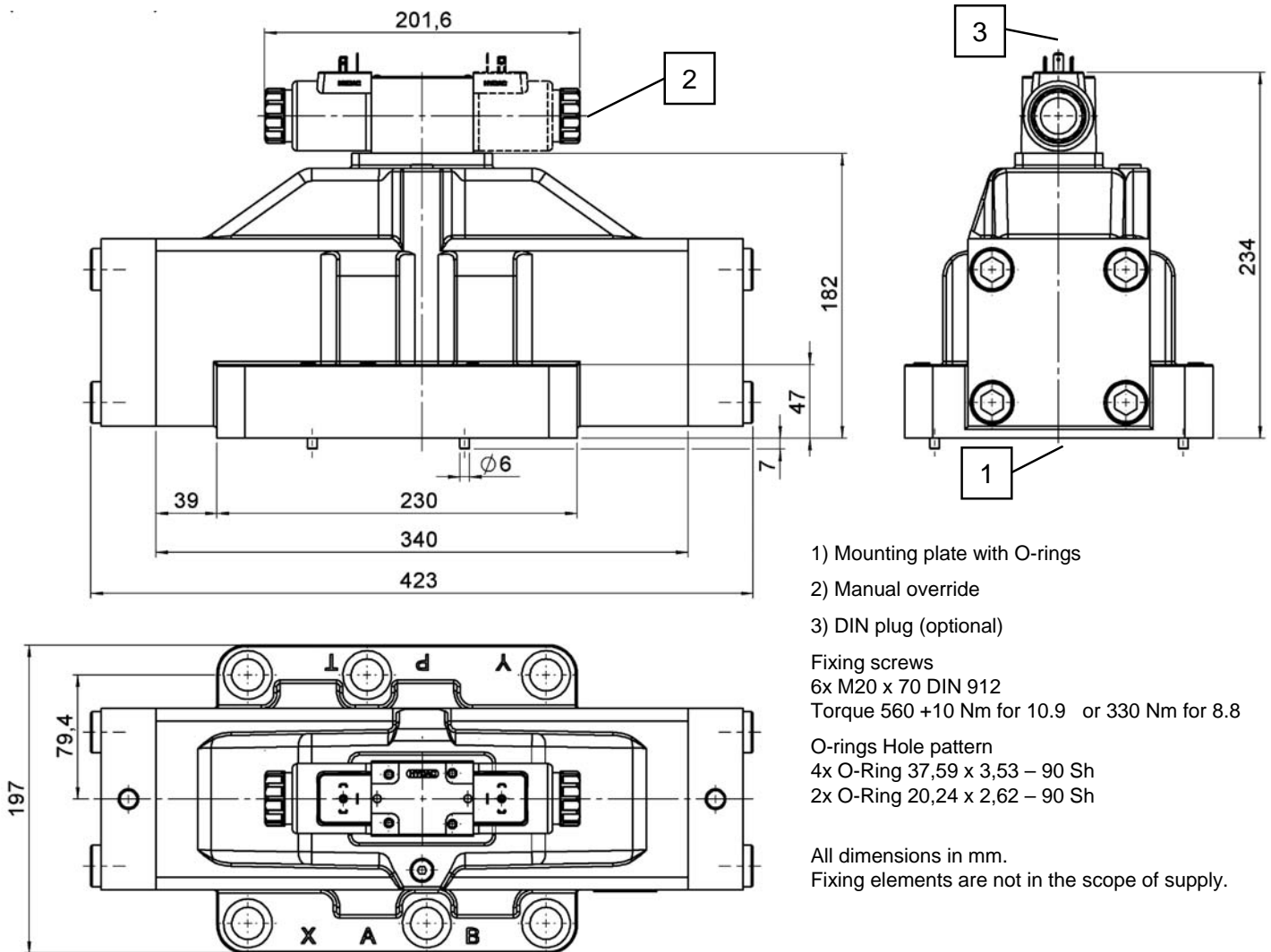
Electro-hydraulic pilot control

FUNCTION

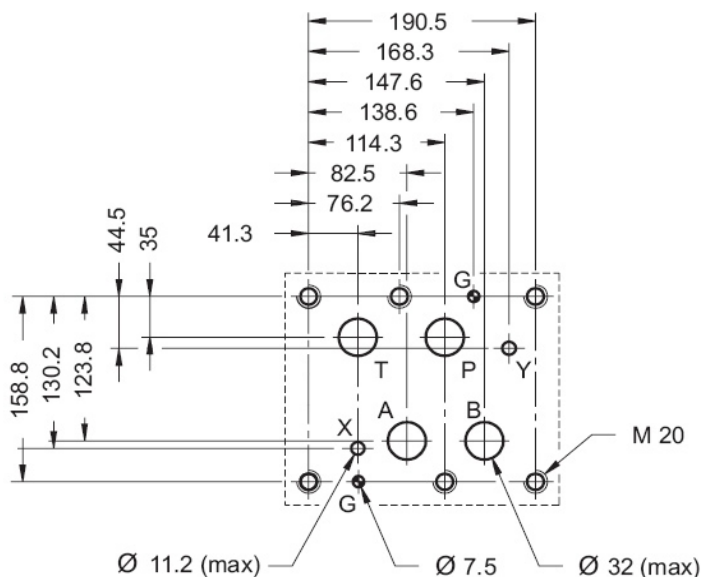
HYDAC 4/2 und 4/3 directional valves for oil hydraulic systems are to open and close flow paths. In de-energized mode the main piston will be retained by a spring in the initial position. An under oil switching magnet pushes the pilot piston in its end position whereby the main piston – hydraulically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

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

DIMENSIONS



Hole pattern to ISO 4401-10-08-0-05



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.

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