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ADH.5		
STANDARD SPOOLS FOR ADH.5	Ch. I page 49	
Tech. specifications ADH.5	Ch. I page 50	
SUBPLATES BSH.5	Ch. I page 51	
CMP.30 BFP Cart	RIDGE CATALOGUE	
CETOP 3/NG06	Ch. I PAGE 8	
STANDARD SPOOLS FOR AD.3.E	Ch. I PAGE 10	
AD.3.E	Ch. I PAGE 11	
"D15" DC coils	Ch. I page 18	
"B14" AC SOLENOIDS	Ch. I page 18	
STANDARD CONNECTORS	Ch. I PAGE 19	

ORDERING CODE

ADH

Piloted valve (Pilot valve and any mounting valves should be ordered separately)



CETOP 5/NG10



Mounting type (Table next page)



Spool type (Table next page)



Piloting and draining

I = X internal / Y internal

IE = X internal / Y external

EI = X external / Y internal

E = X external / Y external (see diagram at side)

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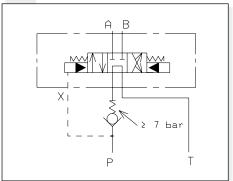
00 = No variant

LC = Main spool stroke limiter

1

Serial No.

EXTERNAL CHECK ON P



ADH.5... 4/3 AND 4/2 PILOTED VALVES CETOP 5/NG10



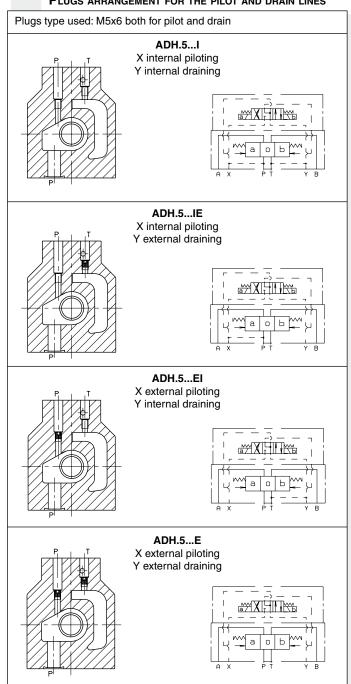
Type ADH.5 distributors are intended for interrupting, inserting and diverting a hydraulic system flow. Normally these distributors are composed of a main stage, crossed by circuit main flow, and of a pilot stage available in several versions.

Various types of controls are available, used either individually or in combination for, among other functions, stroke limitation and main spool movement speed control, in order to optimize the hydraulic system operation where this type of valve is employed.

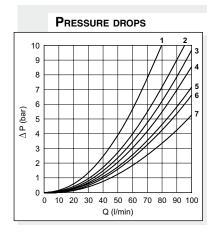
In those case where normally to drain spools are used, it is necessary to remember that the minimum changeover pressure due to the opposing springs is equal to approximately 7 bar (see the operating features table on page I•45) and consequently necessary to insert a check valve in the P way (as shown above).

- Mounting surface in accordance with UNI ISO 4401 05 05 0 94 standard (ex CETOP R 35 H 4.2-4-05).
- Pilot operated spool, solenoid controller.
- Stroke control of main spool.
- Presetting for pressure reducing valve mounting.
- Presetting for single-acting throttle valve mounting.

PLUGS ARRANGEMENT FOR THE PILOT AND DRAIN LINES







The diagram an the side shows the pressure drops in relation to spools adopted for normal usage (see table).

Tests carried out at a constant temperature of 40°C.

The fluid used was a mineral based oil with a viscosity of 46 $\rm mm^2/s$ at $\,40^{\circ}\text{C}.$

Spool	Connections				
type	P→A	P→B	A→T	В→Т	P→T
01	3	3	5	5	
02	3	3	6	6	3
03	3 3	3	6	6	
04	2	2	5	5	1
05	3	3	5	5	
06-66	3	3	6	6	
07		1	6		
10	3	3	5	5	
11	4		5 5		
22		4	5		
14-28	3	3	7	7	2
15	3	3	4	5	
16	3	3	4	5	
17	3	3			
	Curve No.				

Spe	Spools and mounting type (* Spools with price increase)			
	C mounting	A mounting	B mounting	P mounting
Pilot Piloted	AD.3.E.03.C ADH.5.C	AD.3.E.03.E ADH.5.A	AD.3.E.03.F ADH.5.B	AD3E16E/AD3E16F ADH.5.P
Scheme				
Spool type	A X PT Y B	A X PT Y B	A X PT Y B	A X PT Y B
01				
02	XHHHI			
03		EKIX		
04*				
05		XXE		XHD
66				X1
06				
07*			FILE	XHB
10*			T T T	
11*				
22*		XIIII	EIZE	XIII
14*			EIXX	
28*				
15		XHII	XHII	
16				
17				



PILOT SOLENOID CONTROL VALVE SPECIFICATIONS

FOR DIFFERENT CONTROLS, PLEASE CONTACT OUR TECHNICAL ARON SERVICE

	Max. operating pressure ports P/A/B Max. operating pressure port T (int. drainage) Max. pressure on T (ext. drainage) Max. piloting pressure	320 bar 160 bar 250 bar 250 bar
ı	Min. piloting pressure	7 bar
ı	Max. flow	100 l/min
ı	Piloting oil volume engagement 3 position valves	0,8 cm ³
ı	Piloting oil volume engagement 2 position valves	1,6 cm ³
ı	Hydraulic fluid	mineral oil DIN 51524
ı	Fluid viscosity	$10 \div 500 \text{ mm}^2/\text{s}$
ı	Fluid temperature	-20°C ÷ 75°C
ı	Max. contamination level	class 10 in accordance with
ı		NAS 1638 with filter B ₂₅ ≥75
ı	Weight ADH5 without pilot valve	2,7 Kg
ı	Weight ADH5 with pilot valve with 1 AC solenoid	4 Kg
ı	Weight ADH5 with pilot valve with 1 DC solenoid	4,2 Kg
ı	Weight ADH5 with pilot valve with 2 AC solenoid	s 4,3 Kg
ı	Weight ADH5 with pilot valve with 2 DC solenoid	s 4,7 Kg
ı		· •

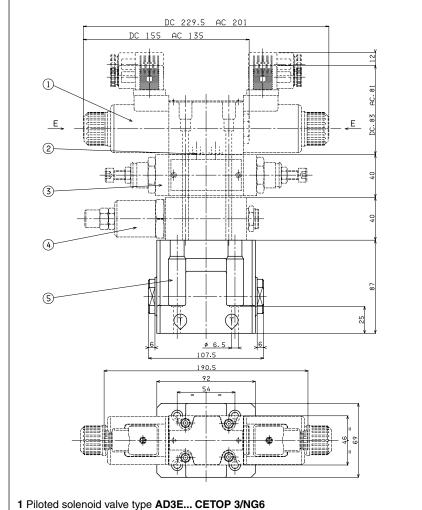
ЭW	SWITCHING TIMES PILOTED VALVE			
ΓING	CURRENT	ENERGIZING	DE-EI	

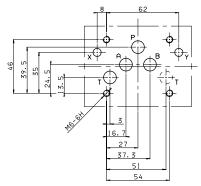
OPERATING PRESSURE (bar)	CURRENT	ENERGIZING centre-extern (ms)	DE-ENERGIZING extern-centre (ms)
50 100 200	ALTERNATING	30 25 20	50
50 100 200	DIRECT	40 35 30	60

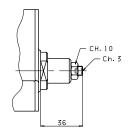
3 position valve. The values are indicative and depend on the hydraulic circuit, the fluid used and the variations in pressure, flow rate and temperature.

OVERALL DIMENSIONS

CETOP **5** MOUNTING SURFACE







SPOOL STROKE ADJUSTMENT

Fixing screws UNI 5931 M6x35 with material specifications 12.9 5 Main valve type ADH5..E Tightening torque 8 N / 0,8 Kgm