1

2000

ADH.5				
STANDARD SPOOLS FOR ADH.5	Ch. I PAGE 44			
ADH.5	Ch. I page 45			
BSH.5	Ch. I page 46			
CMP.30	Ch. V page 21			
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 coil	Ch. I page 20			
K12 AC SOLENOID	Ch. I page 20			
STANDARD CONNECTORS	Ch. I page 21			

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)

**

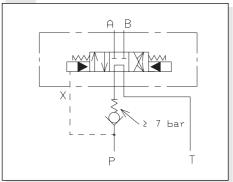
00 = No variant

LC = Main spool stroke limiter

1

Serial No.

EXTERNAL CHECK ON P



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

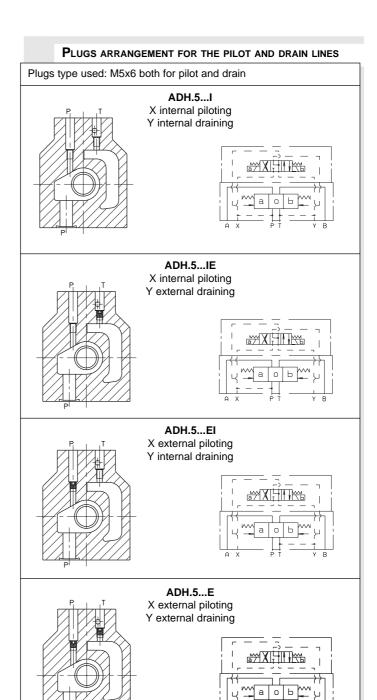


Type ADH.5 distributors are intended for interrupting, inserting and diverting a hydraulic system flow. Normally these distributors are composed of a main stage, crossed by circuit main flow, and of a pilot stage available in several versions.

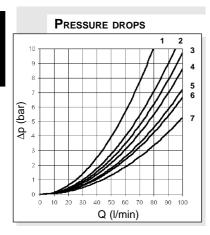
Various types of controls are available, used either individually or in combination for, among other functions, stroke limitation and main spool movement speed control, in order to optimize the hydraulic system operation where this type of valve is employed.

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 CETOP RP 121 H-4.2.4.R05 and/or UNI ISO 4401-AC-05-4-A
- Pilot operated spool, solenoid controller
- Stroke control of main spool
- Pre-setting for pressure reducing valve mounting
- Pre-setting for single-acting throttle valve mounting







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 mm 2 /s at 40 $^\circ$ C.

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

Spools and mounting type

(* Spools with price increasing)

(*) For the E mounting the locating spring works only with the steady system

		Only with the steady system			
	C mounting	A mounting	B mounting	E mounting (•)	Mounting P
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	AD.3.E.16.E ADH.5.E	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	A X PT Y B
01					
02	XHHHI			XHII	XHII
03				XIII	
04*					
05	XYBII	XXII		XHII	XHII
66		X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		XII.	XIIII
06		XIII		XHII	XHII
07*				XHH	XHE
10*			T 1	XHI	
11*		El%El			
22*		X1.11.1		XIII	XIII
14*			EIXIX		MHX
28*					
15		XHII	XHII		
16					
17					



PILOTE SOLENOID CONTROL VALVE SPECIFICATION

FOR DIFFERENTS CONTROLS, PLEASE CONCTAT 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 Min. piloting pressure Max. flow Piloting oil volume engagement 3 position valve Piloting oil volume engagement 2 position valve Hydraulic fluid Fluid viscosity Fluid temperature Max. contamination level Weight ADH5 without pilot valve	ns 1,6 cm³ mineral oil DIN 51524 $10 \div 500 \text{ mm}^2\text{/s}$ $-20^{\circ}\text{C} \div 75^{\circ}\text{C}$ class 10 in accordance with NAS 1638 with filter $\&partial{6}_{25} \ge 75$
•	
wax. contamination level	
Weight ADH5 without pilot valve	2,7 Kg
Weight ADH5 with pilot valve with 1 AC solenoic	d 4 Kg
Weight ADH5 with pilot valve with 1 DC solenoi	d 4,2 Kg
Weight ADH5 with pilot valve with 2 AC solenoic	ds 4,3 Kg
Weight ADH5 with pilot valve with 2 DC solenoi	, 0

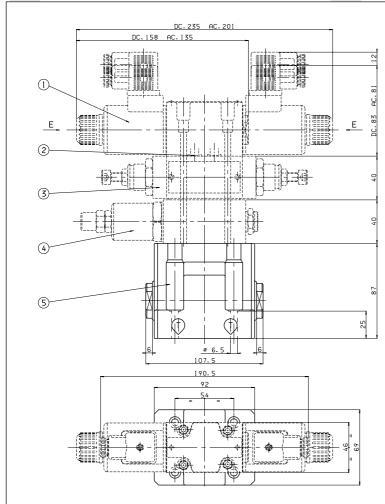
SWITCHING TIMES PILOTED VALVE

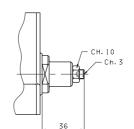
OPERATING PRESSURE (bar)	CURRENT	ENERGIZING centre-extern (ms)	DE-ENERGIZING extern-centre (ms)
50 100 200	ALTERNATING	30 25 20	50
50 100 200	DIRECT	40 35 30	60

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

- 1 Piloted solenoid valve type AD3E... CETOP 3/NG6
- 2 Calibrated diaphragms for AD3E...
- 3 Flow regulation valve type AM3QF..C
- 4 Pressure reduction valve type AM3RD..C 5 Main valve type ADH5..E

Fixing screws M6x35 UNI 5931

Tightening torque 8N / 0,8 Kgm