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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	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 coils	Ch. I page 18
"K12" 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)

5

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)

**

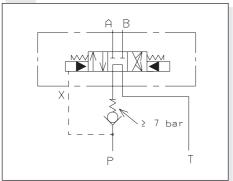
00 = No variant

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.

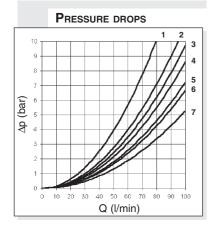
Various types of controls are available, used either individually or in combination for, among other functions, stroke limitation and main spool movement speed control, in order to optimize the hydraulic system operation where this type of valve is employed.

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 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 Plugs type used: M5x6 both for pilot and drain ADH.5...I X internal piloting Y internal draining ADH.5...IE X internal piloting Y external draining MIHIM 0 ADH.5...EI X external piloting Y internal draining ADH.5...E X external piloting Y external draining





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	P→B	A→T	В→Т	P→T
01	3	3	5	5	
02	3	3	6	6	3
03	3	3	6	6	
04	2 3 3	3 2 3	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	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

	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
Spool			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	GZXIII V	
type	A X PT Y B	A X PT Y B	A X PT Y B	AX PT YB	A X PT Y B
01		XIII			X1.1
02	XHHHD			XHII	
03				XHI	
04*		W W W T			
05	XXPIII	XIII		XHD	XHI
66				XIIII	Xi
06		XIIII		XHI	XHII
07*				XH	XHB
10*				XHI	
11*					
22*				XIII	XIII
14*			EIXIX	MHX	
28*					
15		XHIII	XHII		
16			X 1. 1 X		
17					



PILOT SOLENOID CONTROL VALVE SPECIFICATIONS

FOR DIFFERENT CONTROLS, PLEASE CONTACT OUR TECHNICAL ARON SERVICE

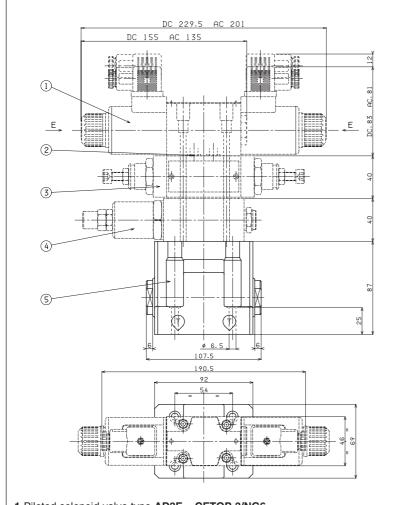
	Max. operating pressure ports P/A/B	320 bar
	Max. operating pressure port T (int. drainage)	160 bar
	Max. pressure on T (ext. drainage)	250 bar
	Max. piloting pressure	250 bar
	Min. piloting pressure	7 bar
	Max. flow	100 l/min
	Piloting oil volume engagement 3 position valves	0,8 cm ³
	Piloting oil volume engagement 2 position valves	1,6 cm ³
	Hydraulic fluid	mineral oil DIN 51524
	Fluid viscosity	10 ÷ 500 mm ² /s
	Fluid temperature	-20°C ÷ 75°C
	Max. contamination level class	ss 10 in accordance with
	NA	S 1638 with filter B ₂₅ ≥75
	Weight ADH5 without pilot valve	2,7 Kg
	Weight ADH5 with pilot valve with 1 AC solenoid	4 Kg
	Weight ADH5 with pilot valve with 1 DC solenoid	4,2 Kg
	Weight ADH5 with pilot valve with 2 AC solenoids	4,3 Kg
	Weight ADH5 with pilot valve with 2 DC solenoids	4,7 Kg
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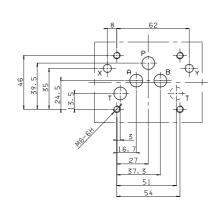
SWITCHING TIMES PILOTED VALVE				
OPERATING PRESSURE (bar)	CURRENT	ENERGIZING centre-extern (ms)	DE-ENERGIZING extern-centre (ms)	
50 100 200	ALTERNATING	30 25 20	50	
50 100 200	DIRECT	40 35 30	60	

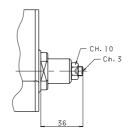
3 position valve. The values are indicative and depend on the hydraulic circuit, the fluid used and the variations in pressure, flow rate and temperature.

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 UNI 5931 M6x35 with material specifications 12.9 Tightening torque 8 N / 0,8 Kgm