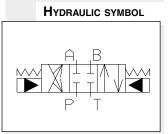


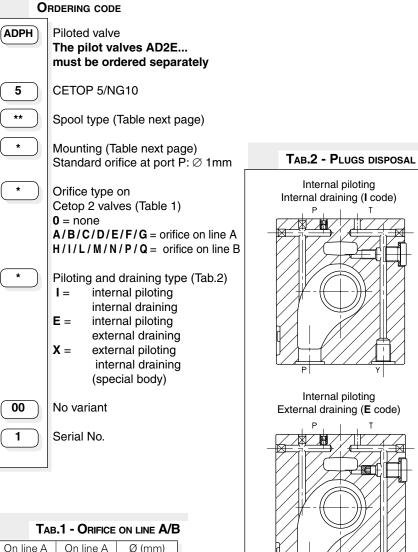
ADPH5... PILOTED VALVES CETOP 5/NG10 WITH CETOP 2/NG4 PILOT VALVE

These ADPH 5 valves are used primarily for controlling the starting, stopping and direction of fluid flow. These kind of distributors are composed by a main stage crossed by the big flow from the pump (ADPH5) and by a cetop 2 pilot directional solenoid valve (AD2E) available with different mounting type .

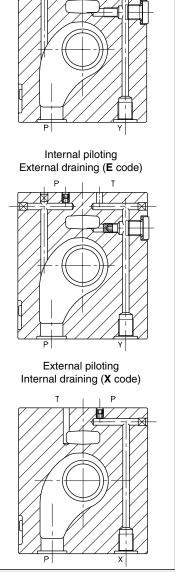
When a short response time is requested, a special version of solenoids with high dynamics is available with the code AD2E****FF2 (please, contact our technical department).



ADPH5	
STANDARD SPOOLS FOR ADPH5	Cap. I • 51
TECH. SPECIFICATIONS ADPH5	Cap. I • 52
CETOP 2/NG04	Cap. I • 2
AD2E	Cap. I • 4
"A09" DC COILS	Cap. I • 4
STANDARD CONNECTORS	Cap. I • 20



On line A	On line A	Ø (mm)
0	0	—
Α	Н	0,5
В	I	0,6
С	L	0,7
D	М	0,8
E	N	0,9
F	Р	1,0
G	Q	1,2

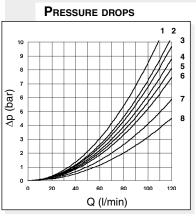




Hydraulic symbols, spools and mounting					
	"A" MOUNTING				
Pilot Piloted		AD.2.E.03.E ADPH.5.**.A			
Scheme					
Spool type		Covering Ira			
01					
02					
03					
04*		[[] - []][[] [] [] [] [] [] [] [] [] [] [] []			
06					
15		TTHE - THE			
16					

	"C" MOUNTING			
Pilot Piloted	AD.2.E.03.C ADPH.5.**.C			
Scheme				
Spool type			Covering	Transient position
01			+	
02			-	
03			-	
04*			-	
06			+	

	"B" MOUNTING				
Pilot Piloted		AD.2.E.03.F ADPH.5.**.B			
Scheme					
Spool type		Covering Transient Dositio			
01					
02		-			
03		-			
04*		-	EHX		
06		+			
15		-			
16		+			



The diagram at the side shows the pressure drop curves for spools during normal usage. The used fluid is a mineral oil with a viscosity of 46 mm^2 /s at 40° C; the tests have been carried out at a fluid temperature of 40° C. For flow rates higher than those in the diagram, the losses will be those expressed by the following formula:

$$\Delta p1 = \Delta p \times (Q1/Q)^2$$

where Δp will be the value for the losses for a specific flow rate Q which can be obtained from the diagram, $\Delta p1$ will be the value of the losses for the flow rate Q1 that is used.

Spool type	Connections				
type	P→A	Р→В	A→T	B→T	P→T
01	4	4	7	7	
02	6 3	6	8	8	7
03	3	3	8	8	
04	4	4	2	2	3
06	4	4	7	8	
15	2	2	5	5	
16	1	1	2	2	
	Curve No.				

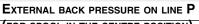
(* Spools with price increasing)

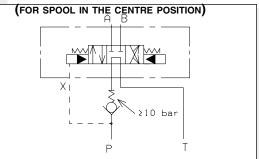


PILOT SOLENOID CONTROL VALVE SPECIFICATIONS

Max. operating pressure: ports P/A/B	250 bar	
Max. operating pressure: port T (dynamic)	70 bar	
Max. piloting pressure	250 bar	
Min. piloting pressure	10 bar	
Max. flow	120 l/min	
Switching times (*see note below)	Energizing: 20 ms	
	De-energizing: 50 ms	
Piloting oil volume for engagement	1 cm ³	
Hydraulic fluid	mineral oil DIN 51524	
Fluid viscosity	10 ÷ 500 mm²/s	
Fluid temperature	-20°C ÷ 75°C	
Max. contamination level	class 10 in accordance	
	with NAS 1638 with filter B ₂₅ ≥75	
Mounting	plate	
Weight ADPH5 without pilot valve	3,4 Kg	
Weight ADPH5 with pilot valve with one solenoid		
Weight ADPH5 with pilot valve with two solenoids 4,		

(*) All the tests have been carried out with AD2E pilot valve with variant FF, mounting type C, spool 03, flow 100 l/min,pressure 160 bar, back pressure on the T line of 2 bar and oil temperature 40° C.





When the main spool connect P to T in the centre position, the minimum pressure of 10 bar is needed to move the main spool (see the "Specifications"); for this reason a check valve on the P line (see the drawing above) is necessary.

