

ADP5V	
"D19" DC SOLENOIDS	Cap. I • 44
STANDARD CONNECTORS	Cap. I • 20
L.V.D.T.	Cap. I • 22

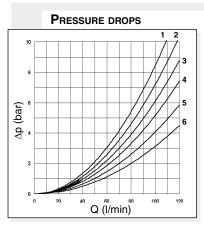
# ADP5V... WITH PROXIMITY SENSOR LVDT CETOP 5

The NG10 directional control valves are designed for subplate mounting with an interface in accordance with UNIISO 4401-05 - 04 - 0 - 94 standard (ex CETOP R 35 H 4.2-4-05).

The single solenoid directional valves type ADP5V are used in applications where the monitoring of the position of the spool inside the valve is requested to manage the machine safety cycles in according with the accident prevention legislation. These directional valves are equipped with an horizontal positioned

Max. operating pressure: ports P/A/E	3 350 bar		
Max. operating pressure: port T (*)	250 bar		
Max. flow	120 l/min		
Max. excitation frequency	3 Hz		
Duty cycle	100% ED		
Fluid viscosity	10 ÷ 500 mm²/s		
Fluid temperature -25°C ÷ 75°			
Ambient temperature -25°C ÷ 60°C			
Max. contamination level class 1	0 in accordance		
with NAS 1638	with filter B₂₅≥75		
Type of protection	20		
(in relation to connector used)	IP 66		
Weight	6,2 Kg		
(*) Pressure dynamic allowed for 2 n	nillions of cycles		

inductive sensor on the opposite side of the solenoid, which is capable of providing the first movement of the valve when the passage of a minimum flow is allowed. Integrated in safety systems, these valves intercept actuator movements that could be dangerous for the operators and for the machine.

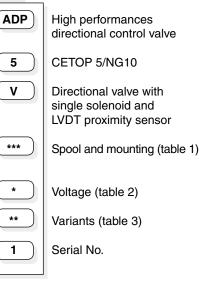


The diagram at the side shows the pressure drop curves for spools during normal usage. The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40°C; the tests have been carried out at a fluid temperature of 40°C. For higher flow rates than those in the diagram, the losses will be those expressed by the following formula:

∆n1	– An	v	(Q1/Q) <sup>2</sup>	2
Δρι	$= \Delta p$	x	(0,1/0,1	

where  $\Delta p$  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	Connections				
type	P→A	Р→В	A→T	B→T	P→T
01	3	3	5	5	
02	4	4	6	6	5
66	3	3	6	5	
06	3	3	5	6	
16	1	1	2	2	
	Curve No.				



registered mark for industrial environment with reference to the electromagnetic compatibility. European norms:

- EN50082-2 general safety norm - industrial environment

- EN 50081-1 emission general norm - residential environment

#### 12V L M 24V 115Vac/50Hz 120Vac/60Hz N 48V\* with rectifier **P** 110V\* Z 102V\* 230Vac/50Hz 240Vac/60Hz **X** 205V\* with rectifier W Senza bobina né connettori Voltage codes are not stamped on the plate, their are readable on the coils.

TAB.2 - DC VOLTAGE \*\*

\* Special voltage \*\* Technical data see Cap. I • 45

TAB1 - STANDARD SPOOL FOR A	DP5V
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E / F MOUNTING POSSIBLE				
Spool type		Covering	Transient position	
01E		+		
01F		+		
02E		-		
02F		-		
66E		-		
06F	~	-		
16E		+		
16F		+		
32E		+		

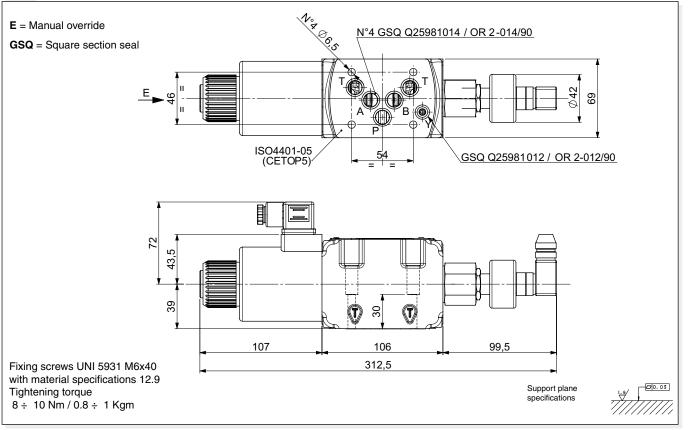
### TAB.3 - VARIANTS

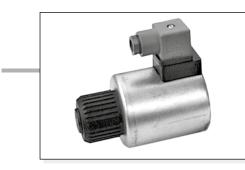
VARIANTS	CODE
No variant (without connectors) Rotary emergency button Without proximity connector LVDT Without coils and proximity connector With solenoid chamber external drainage (Y)	S1(*) P2(*) S3 S4
Other variants available on request.	

(\*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, Cap. I • 20.

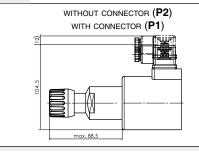








#### **ROTARY EMERGENCY**



## "D19" DC SOLENOIDS

Type of protection (in relation to the connector used)	IP 66
Number of cycle	18.000/h
Supply tolerance	±10%
Ambient temperature	-25°C ÷ 60°C
Duty cycle	100% ED
Max static pressure	210 bar
Insulation class wire	н
Weight	1,63 Kg

Voltage (V)	Max winding temperature (Ambient temperature25°C)	Rated power (W)	Resistance at 20°С (Онм) ±10%
12V	105°C	42	3.43
24V	105°C	42	13.71
48V*	105°C	42	55
102V <sup>(*)(**)</sup>	105°C	42	248
110V <sup>(*)(**)</sup>	105°C	42	288
205V <sup>(*)(**)</sup>	105°C	42	1000
* Special	voltage		

\*\* The european low voltage directive is applied to electronical equipments used at a nominal voltages between 50 and 1000 VAC or 75 and 1500 VDC. In conformity with the low directive each part of the manifold or the subplate on which the valve is mounted should be connected to a protective earth with a resistence less than 0.1 ohms.

