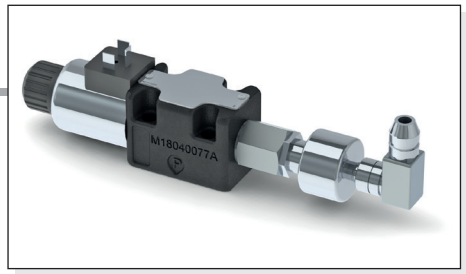


AD3V... CETOP 3/NG6

WITH PROXIMITY SENSOR LVDT

The single solenoid directional valves type AD.3.V 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 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.

Max. operating pressure ports P/A/B (*)	350 bar
Max. operating pressure port T dynamic (**)	250 bar
Max. flow	60 l/min
Max. excitation frequency	3 Hz
Duty cycle	100% ED
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Type of protection (in relation to connector used)	IP 66
Weight	1,7 Kg

(*) Dynamic pressure allowed on P for 800.000 cycles.
(**) Pressure dynamic allowed for 2 millions of cycles.

- **Possible mountings: E / F / H**
- **The valve is supplied with DC solenoid only**

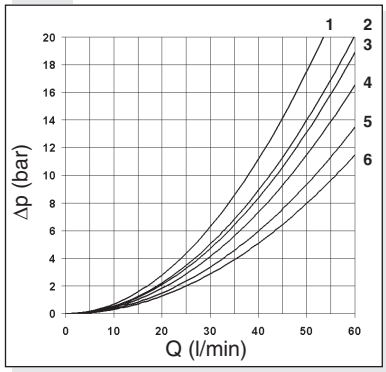
AD3V...	
"D15" DC Coils	Cap. I • 19
Standard connectors	Cap. I • 20
LVDT	Cap. I • 22

Ordering code

AD	Directional control valve
3	CETOP 3/NG6
V	Directional valve with single solenoid and LVDT proximity sensor
***	Spool and mounting (table 1)
*	Voltage (table 2)
**	Variants (table 3)
3	Serial No.

CE 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

Pressure drops



Spool type	Connections				
	P→A	P→B	A→T	B→T	P→T
01	5	5	5	5	
02	6	6	6	6	5
06	5	5	6	5	
16	5	5	4	4	
17	1	3			
66	5	5	5	6	
32	1	1	2	2	
	Curves No.				

The diagram at side shows the Δp curves for spool in 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.

Tab.2 - Voltage

D15 Coil (30W) **

L	12V
M	24V
V	28V*
N	48V*
Z	102V*
P	110V*
R	205V*
W	Without DC coils and connectors

115Vac/50Hz 120Vac/60Hz with rectifier

230Vac/50Hz 240Vac/60Hz with rectifier

Voltage codes are not stamped on the plate, their are readable on the coils.

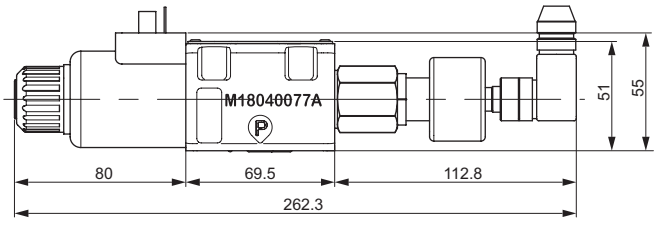
* Special voltage
** Technical data see Cap. I • 19

Tab1 - Standard spools for AD3V

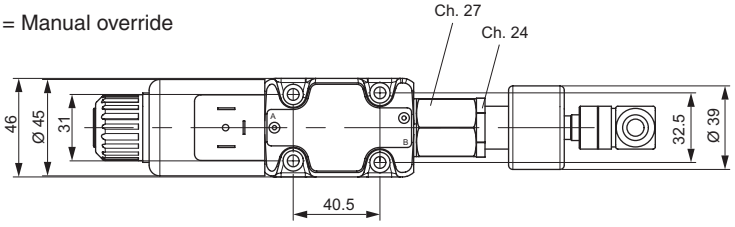
Possible mounting: E / F / H

Spool type		Covering	Transient position
01E		+	
01F		+	
02E		-	
06H*		+	
16E		+	
17F		+	
66F		+	
32E		+	

(*) Spool with price increasing

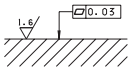


E = Manual override



Fixing screws UNI 5931 M5x30
with material specifications min. 8.8
Tightening torque 5 Nm / 0.5 Kgm

Support plane specifications



Tab.3 - Variants

No variant (without connectors)	S1(*)
Viton	SV(*)
Emergency button	ES(*)
Without proximity connector LVDT	S3
Without coils and proximity connector	S4
AMP Junior coil	AJ(*)
AMP Junior coil and integrated diode	AD(*)
Coil with flying leads (175mm)	SL
Deutsch DT04-2P Coil type	CZ

Other variants available on request.

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