AD5L... LEVER OPERATED TYPE VALVES
CETOP 5
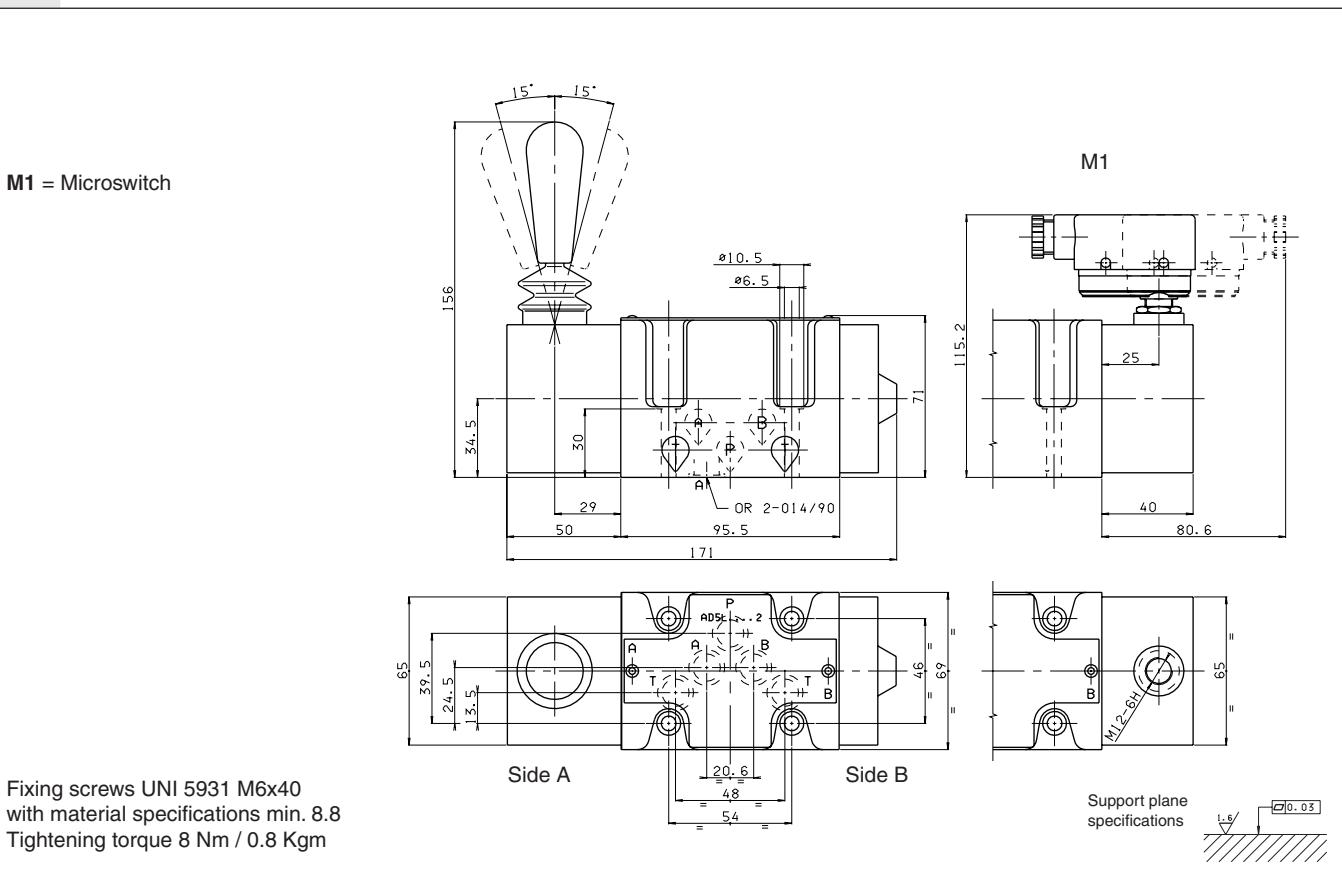
brevini

Max. pressure ports P/A/B	320 bar
Max. pressure port T	160 bar
Max. flow	100 l/min
Lever angle	2 x 15°
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	4,7 Kg
Weight with M1 variant	5,35 Kg

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• Possible mounting:
C / E / F
(with mounting "F" and spools "15-16-17" the lever is on side "B")

• There is no **D** type mounting

• The variant **D1** specifies the detent (mechanical connection) for lever operation

• The springs for the version with detent (variant **D1**) are different from those for standard versions.

AD5L...	
ORDERING CODE	CH. I PAGE 34
STANDARD SPOOLS	CH. I PAGE 35

• Completely different spools are used for these (lever operated) valves than for all other types of operation (e.g. electrical, mechanical, pneumatic operation, ...)

• Available spools: 01 / 02 / 03 / 04 / 05 / 06 / 66 / 07 / 22 / 13 / 15 / 16 / 17 (for hydraulic symbols see Ch. 1 • 35)

• Microswitch type AM1107 code V79000001 can be ordered separately.

OVERALL DIMENSIONS

M1 = Microswitch

Fixing screws UNI 5931 M6x40
with material specifications min. 8.8
Tightening torque 8 Nm / 0.8 Kgm

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ORDERING CODE

AD	Directional valve
5	CETOP 5/NG10
*	Type of operator (tab.1)
**	Spools (see tables on Ch. I • 35)
*	Mounting type (tab. 2)
*	Voltage / Specification (tab. 3)
**	Variants (tab. 4)
2	Serial No.

TAB.1 - TYPE OF OPERATOR

E	Electrical
D	Direct mechanical
O	Oleo-pneumatic
L	Lever

TAB.3 - VOLTAGE / SPECIFICATION

Operator	Voltage Specs.	Description	Note
E	A	24V/50Hz	
	B	48V/50Hz*	
	J	115V/50Hz - 120V/60Hz	AC Voltage ** (Technical data see page I • 40)
	Y	230V/50Hz - 240V/60Hz	
	E	240V/50Hz*	
	F	24V/60Hz*	
	K	Without AC coils	
	L	12V	DC Voltage ** (Technical data see page I • 40)
	M	24V	
	N	48V*	
	P	110V*	
	Z	102V* 115Vac/50Hz 120Vac/60Hz with rectifier	
	X	205V* 230Vac/50Hz 240Vac/60Hz with rectifier	
	W	Without DC coils	
D	Z	standard	—
O	Z	standard	—
L	Z	valve with lever	—
	X	valve without lever	—

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

TAB.2 - MOUNTING

	STANDARD
C	
D	
E	
F	
	SPECIALS (WITH PRICE INCREASING)
G	
H	
I	
L	
M	

• **Mounting type D** is only for valves with detent

• In case of **mounting D** with detent a maximum supply time of 2 sec is needed (only for AC coils).

• The springs for the version with detent (mounting **D**) are different from those for standard versions.

TAB.4 - VARIANTS

VARIANT	CODE	♦	PAGE
No variant (without connectors)	S1(*)		
Viton	SV(*)		
Emergency button	ES(*)		
Preset for microswitch - (E/F/G/H only) see below note ◊	MS(*)	♦	Ch. I • 36 - Ch. I • 39
Rotary emergency button	P2(*)		Ch. I • 40
Marine version (AD.5.O..)	H1	♦	
Preset for microswitch + Viton	MV	♦	
Spool movement speed control (VDC only) with ø 0.5 mm diameter orifice	5S(*)	♦	Ch. I • 37
Spool movement speed control (VDC only) with ø 0.6 mm diameter orifice	6S(*)	♦	Ch. I • 37
Spool movement speed control (VDC only) with ø 0.7 mm diameter orifice	7S(*)	♦	Ch. I • 37
Spool movement speed control (VDC only) with ø 0.8 mm diameter orifice	8S(*)	♦	Ch. I • 37
External draining solenoid (electrically operated only)	S5(*)	♦	Ch. I • 37
Microswitch+ Detent (for lever operation)	MD	♦	
Detent for lever control	D1	♦	

◊ = Maximum counter-pressure on T port: 4 bar - Microswitch type AM1107 code V79000001 can be ordered separately.
♦ = Variant codes stamped on the plate

(*) Coils with Hirschmann connection supplied without connectors. The connectors can be ordered separately, Ch. I page 20.

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Two solenoids, spring centred "C" mounting

Spool type	a ⊞A O B⊞ b	Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
05		+	
66		+	
06		+	
07*		+	
08*		+	
10*		+	
22*		+	
11*		+	
12*		+	
13*		+	
14*		-	
28*		-	

One solenoid, side A "E" mounting

Spool type	a A O	Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
05		+	
66		+	
06		+	
08*		+	
10*		+	
12*		+	
15		-	
16		+	
17		+	
14*		-	
28*		-	

Attention

(*) Spool with price increasing

• With spools **15** / **16** / **17** only the mounting **E** / **F** are possible

• **19** • **20** / **21** spool not planned for **AD5E...J***

• For lever operated the spools used are different.
Available spools for this kind of valve see AD5L..

One solenoid, side B "F" mounting

Spool type	O B b	Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
05		+	
66		+	
06		+	
08*		+	
10*		+	
22*		+	
12*		+	
13*		+	
07*		+	
15		-	
16		+	
17		+	
14*		-	
28*		-	

Two solenoids "D" mounting

Spool type	a A B b	Covering	Transient position
19*		-	
20*		+	
21*		+	