



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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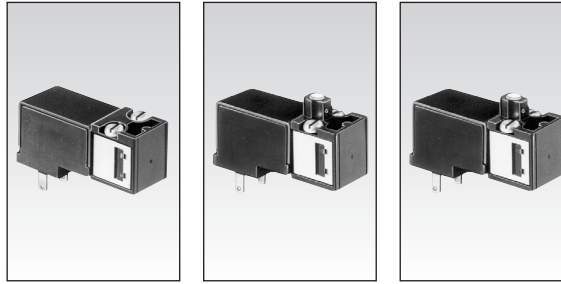
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Ex Intrinsically safe miniature solenoid valves EEx ia II C T6

LCIE approval  
no. 93 C 6014X

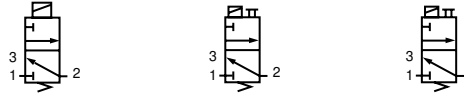
For mounting on sub-base or footprint in  
accordance with CNOMO recommendation  
E 06-36-120N



## Part numbers (and voltages)

	Voltage	max. power consumption			
U nominal					
Supply voltage (barrier output or interface) between 5 and 18 Vdc inc.	12 Vdc	0.70 W			
U nominal					
Supply voltage (barrier output or interface) between 12 and 28 Vdc inc.	24 Vdc	0.70 W	<b>81 519 035</b>	<b>81 519 335</b>	<b>81 519 635</b>
Function			3/2 NC	3/2 NC	3/2 NC
Versions	Without manual override		●	—	—
	With manual override		—	impulse	latched (1/4 turn)

## Symbols



## Characteristics

Permitted fluids	filtered 10 µ, lubricated (ASTM2) or not	air or inert gases	air or inert gases	air or inert gases
Operating pressure	bars	1 → 7	1 → 7	1 → 7
Orifice diameter	mm	0.5	0.5	0.5
Flow at 6 bars	NL/min	12	12	12
Flow coefficient	KV	0.12	0.12	0.12
Temperature	operating °C	- 10 + 50	- 10 + 50	- 10 + 50
	fluid °C	- 10 + 30	- 10 + 30	- 10 + 30
Switching time	ms	8 to 15	8 to 15	8 to 15
Mechanical life	operations	≤ 1.5 x 10 <sup>7</sup>	≤ 1.5 x 10 <sup>7</sup>	≤ 1.5 x 10 <sup>7</sup>
Construction	Stainless steel, brass NBR, PA 66	●	●	●
Weight	g	35	35	35
Duty factor		100% ED	100% ED	100% ED
Insulation class	IEC 85	F	F	F
Degree of protection (IEC 529)	with connector 81 516 082 (see page 6/5)	IP 65	IP 65	IP 65
	with sub-bases 81 513.../81 514... (see page 6/4)	IP 20	IP 20	IP 20

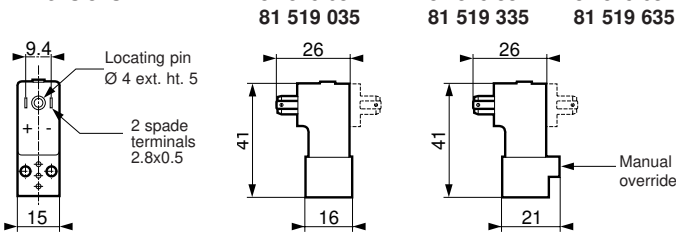
## Pneumatic connections

Geometry of footprint		see below	see below	see below
via associable bases	types 81 514 106 or 81 514 166	see page 6/4	see page 6/4	see page 6/4
On modules	types 81 513 100 /200 /600	see page 5/8	see page 5/8	see page 5/8
	types 81 516 100 /200	see page 5/8	see page 5/8	see page 5/8

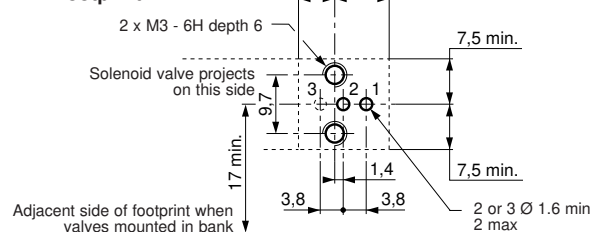
## Electrical connections

2 spade terminals on coil	90° rotatable	see below	see below	see below
via connector 81 516 082	90° rotatable	see page 6/5	see page 6/5	see page 6/5
via associable bases	types 81 514 106 /166	see page 6/4	see page 6/4	see page 6/4
	types 81 513 075 /076	see page 6/4	see page 6/4	see page 6/4
	types 81 517 106 /206	see page 6/4	see page 6/4	see page 6/4

## Dimensions



## Footprint



## Other information

Note: Our intrinsically safe miniature solenoid valves have a locating pin which prevents their mounting on our standard sub-bases. They must be used only with our sub-bases approved to EEx ia II C T6 as shown on page 6/6. To achieve EEx ia II C T6 when using a plug type connector, only our connector 81 516 082 (approved for use with our miniature solenoid valves 81 519...) must be used.

## To order, specify :

Standard products

**1** Part number  
Example : Intrinsically safe miniature solenoid valve - 81 519 034

Products and specifications subject to change without notice.  
Consult factory for application assistance.

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