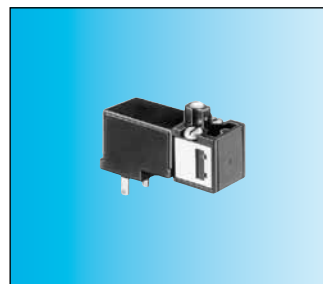


Electro-pneumatic control valves



Miniature solenoid valves for alternating current

- Conform to the Low Voltage Directive
- For mounting on sub-base or footprint in accordance with CNOMO recommendation E-06-36-120N



Part numbers (and voltages)

Consumption	Voltage			
2.5 VA	24 V ~ 50-60 Hz	81 519 080	81 519 380	81 519 680
2.5 VA	48 V ~ 50-60 Hz*	—	81 519 381	
2.5 VA	110 V ~ 50-60 Hz	—	81 519 378	81 519 678
2.5 VA	220 V- 230 V ~ 50-60 Hz	—	81 519 379	81 519 679
Function		3/2 NC	3/2 NC	3/2 NC
Version		Without manual override	With manual override by impulse	With manual override by latching (1/4 turn)

Characteristics

Operating pressure	bar	1 → 8	1 → 8	1 → 8
Orifice diameter	mm	0.5	0.5	0.5
Flow at 6 bars	NI/min	12	12	12
kV		0.12	0.12	0.12
Switching time	ms	5 → 15	5 → 15	5 → 15
Mechanical life (operations)		5 10 ⁷	5 10 ⁷	5 10 ⁷
Operating temperature	°C	-10 → +50	-10 → +50	-10 → +50
Compressed air or inert gas - oil-free air filtered to 50 µ		●	●	●
Duty factor		100 % ED	100 % ED	100 % ED
Insulation class	IEC 85	F	F	F
Weight		35	35	35
Rotatable connector 4 positions in 90° steps		●	●	●
Degree of protection with sub-base (page 62)	IEC 529	IP 20	IP 20	IP 20
with connector 81 516 082 (page 65)	IEC 529	IP 65	IP 65	IP 65
UL and cUL approval		MH 15085	MH 15085	MH 15085

15x15 mm footprint

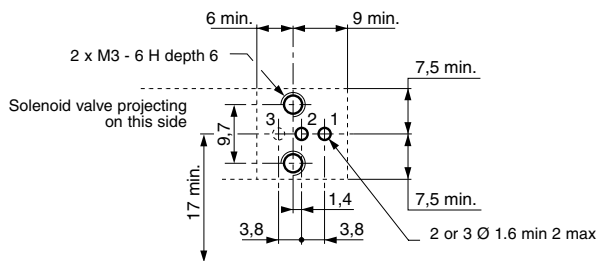
according to CNOMO E 06-36-120N

Dimensions

81 519 0

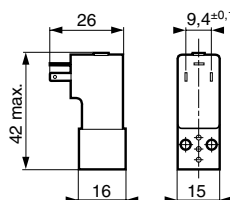
81 519 3
81 519 6

Manual override



Adjacent side of footprint when valves mounted in bank

- 1 - Supply
- 2 - Output
- 3 - Exhaust

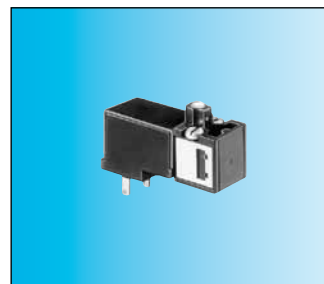


Miniature solenoid valves for direct current

- Conform to the Low Voltage Directive
- For mounting on sub-base or footprint in accordance with CNOMO recommendation E-06-36-120N



Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive



Part numbers (and voltages)

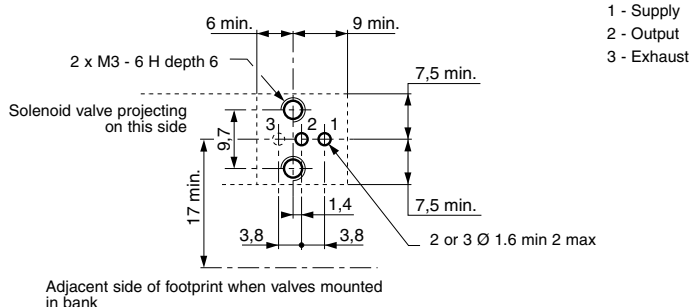
	Consumption	Voltage				
	1 W	24 V ---	81 519 032	81 519 332	81 519 632	81 519 340
Function			3/2 NC	3/2 NC	3/2 NC	3/2 NF
Version			Without manual override	With manual override by impulse	With maintained manual override	With maintained manual override

Characteristics

Operating pressure	bar	1 → 8	1 → 8	1 → 8	1 → 8
Orifice diameter	mm	0.8	0.8	0.8	0.8
Flow at 6 bars	NI/min	25	25	25	25
kV		0.3	0.3	0.3	0.3
Switching time	ms	5 → 15	5 → 15	5 → 15	5 → 15
Mechanical life (operations)		5 10 ⁷	5 10 ⁷	5 10 ⁷	5 10 ⁷
Operating temperature	°C	-10 → +50	-10 → +50	-10 → +50	-10 → +50
Compressed air or inert gas - oil-free air filtered to 50 µ		●	●	●	●
Duty factor		100 % ED	100 % ED	100 % ED	100 % ED
Insulation class	IEC 85	F	F	F	F
Weight		35	35	35	35
Rotatable connector 4 positions in 90° steps		●	●	●	●
Degree of protection with M12 5-pin connector	IEC 529	—	—	—	—
with connector 81 516 082	IEC 529	IP 65	IP 65	IP 65	IP 65
UL and cUL approval		MH 15085	MH 15085	MH 15085	MH 15085

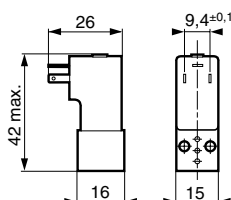
15x15 mm footprint

according to CNOMO E 06-36-120N

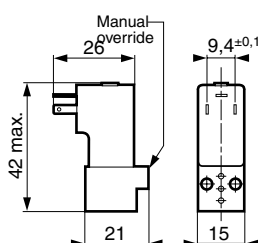


Encombrement

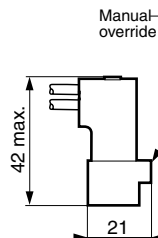
81 519 0



81 519 3
81 519 6

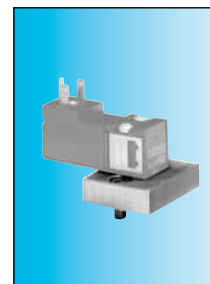
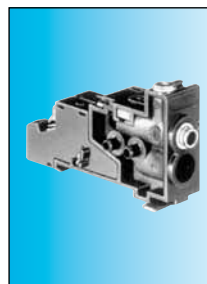
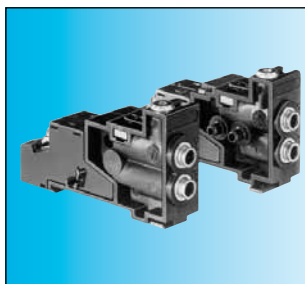


81 519 3



ATEX version products are available in the following catalogues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

Sub-bases for miniature solenoid valves



Part numbers

Pair of end bases	81 514 101	—	—
Intermediate sub-base	—	81 514 161	—
Adaptor sub-base for CNOMO 06-05-80 / NFE 49066 footprint	—	—	79 453 569

Characteristics

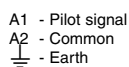
Pneumatic indicator on output		●	●	
Common supply		●	●	
Common exhaust		●	●	
Torque capacity	mm²	3	3	
Push-in connection for semi-rigid tubing Ø 4 mm (NFE 49100)	mm	●	●	
Mounting		DIN rail 35 mm	DIN rail 35 mm	2 screws M4 x 10
UL and cUL approval	g	MH 15085	MH 15085	—
Weight		65	30	50

Connection

Pneumatic

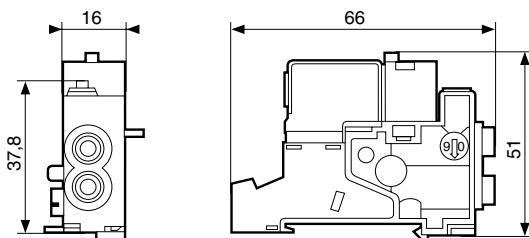


Electrical



Dimensions with miniature solenoid valve (page 58)

81 514 101 - 81 514 161



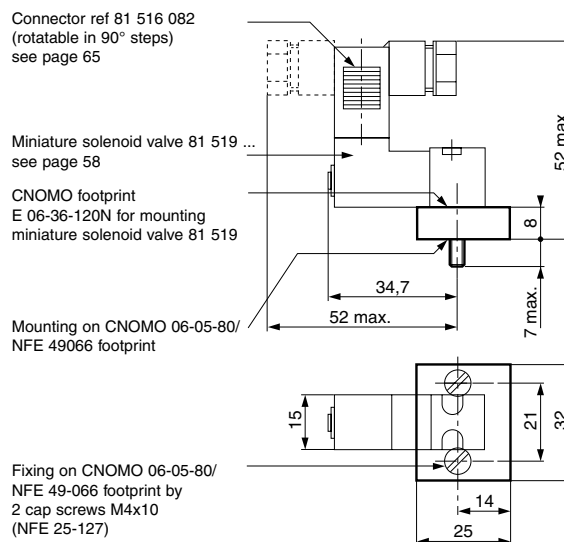
79 453 569

Connector ref 81 516 082
(rotatable in 90° steps)
see page 65

Miniature solenoid valve 81 519 ...
see page 58

CNOMO footprint
E 06-36-120N for mounting
miniature solenoid valve 81 519

Mounting on CNOMO 06-05-80/
NFE 49066 footprint

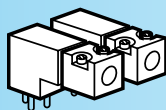


ATEX version products are available in the following catalogues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

Electro-pneumatic miniature control valves

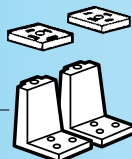
Mounting

Miniature solenoid valves



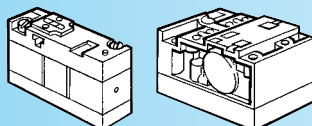
Indicators

- LED seals
- LED



Valve modules

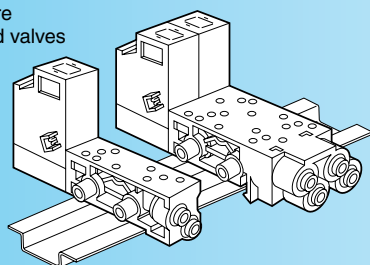
- Poppet
 - 3/2 monostable (17.5 mm)
 - 4/2 monostable (17.5 mm)
- Slide valve
 - 4/2 bistable (35 mm)
 - 4/2 monostable spring-return (35 mm)



Sub-bases

For
miniature
solenoid valves

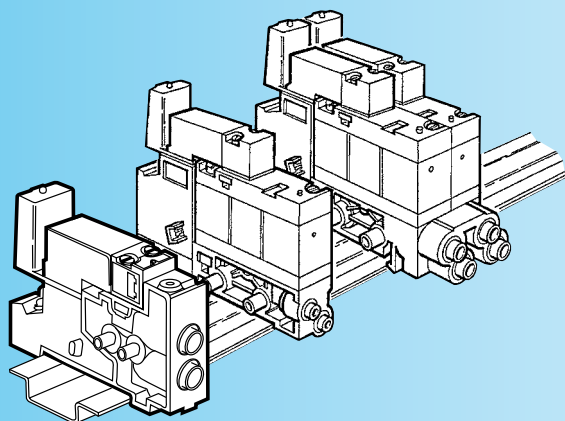
For valve modules



Double

Single

Complete product



Valve modules

- Monostable, bistable
- 3/2, 4/2



Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive



81 513 100



81 513 600



81 513 200



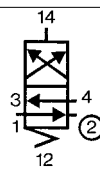
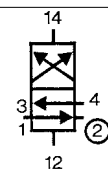
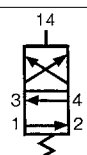
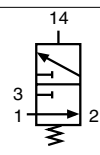
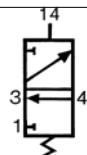
81 516 200



81 516 100

Function	3/2 NC monostable	3/2 NO monostable	4/2 monostable	4/2 bistable	4/2 monostable
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Symbol

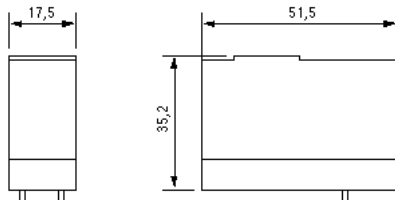


Characteristics

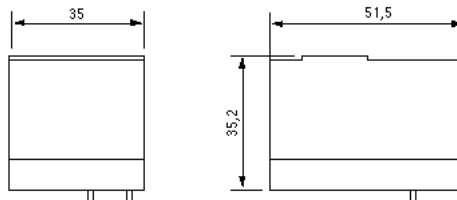
Width	mm	17.5	17.5	17.5	35	35
Working pressure	bars	3→8	3→8	3→8	2→8	3.5→8
Orifice diameter	mm	3	3	3	4	4
Flow at 6 bars	with Ø 4 mm sub-base (page 63)	200	200	200	300	300
	with Ø 6 mm sub-base (page 63)	300	300	300	400	400
Flow Rate	with Ø 4 mm sub-base (page 63)	2.2	2.2	2.2	4	4
	with Ø 6 mm sub-base (page 63)	2.5	2.5	4	5	5
Operating temperature	° C	-10 → +50	-10 → +50	-10 → +50	-10 → +50	-10 → +50
Switching time for the valve only	ms	15	15	15	50	50
Mechanical life	operations	1.5 x 10 ⁷	1.5 x 10 ⁷	1.5 x 10 ⁷	10 ⁷	10 ⁷
Weight	g	38	38	38	106	106

Dimensions

81 513



81 516

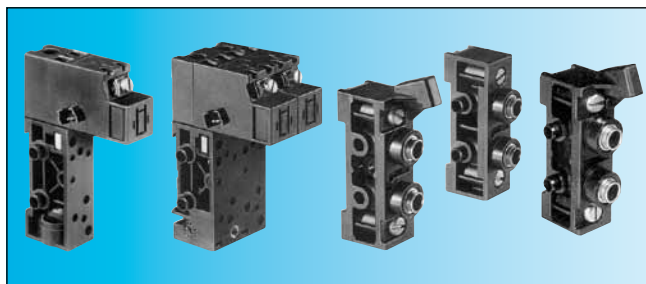


ATEX version products are available in the following catalogues: **Pneumatic products for explosive atmospheres** or on our website www.crouzet.com

Sub-bases and end bases for miniature control valves



Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive



Part numbers

Mounting			Cabinet	Cabinet	Cabinet	Cabinet
Version			17.5 mm	35 mm	—	—
Push-in connection for semi-rigid tubing (NFE 49100)	Sub-bases	Ø 4 mm	81 513 060	81 517 101	—	—
		Ø 6 mm	81 513 065	81 517 201	—	—
	End bases (pair)	Ø 6 mm	—	—	81 513 011	—
	Intermediate supply module	Ø 6 mm	—	—	—	81 513 001

Characteristics

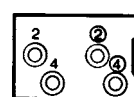
Torque capacity	mm²	3	3	—	—
UL and cUL approval		MM15085	MM15085	—	—
Mounting		DIN rail 35 mm	DIN rail 35 mm	DIN rail 35 mm	DIN rail 35 mm
Weight	g	55	110	86	44

Connections

Pneumatic

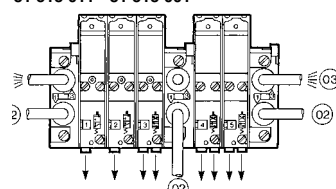


2 - Pneumatic output 4/2 (NO)
4 - Pneumatic output 3/2 or 4/2 (NC)



② Output at rest (NO)
2 Output at rest *
④ Output at rest *
4 Output operating (NC)

81 513 011 - 81 513 001



Note :

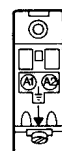
Each sub-base can accept
- sub-base 81 513 060-065 : 1 relay 3/2 or 4/2, width 17.5 mm
- sub-base 81 517 101-201 : 1 bistable relay 4/2 (width 35 mm) or 2 relays 3/2 or 4/2 (width 17.5 mm)

② 2 Supply ports

③ 2 Exhaust ports

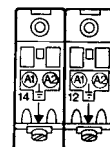
Integral push-in connections Ø 6 mm

Electrical



A1 - Pilot signal
A2 - Common

Earth

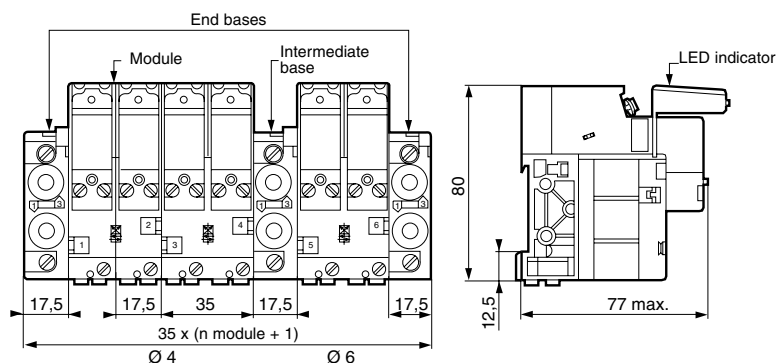


A1 - Operating control signal (14)
A2 - Common
A1 - Rest control signal (12)
A2 - Common

Earth

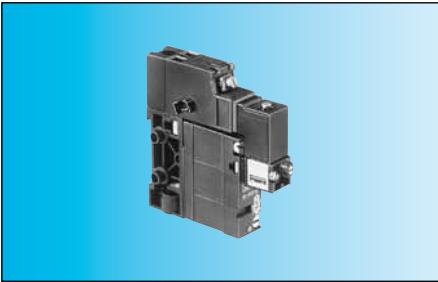
Degree of protection :
IP20 when assembled.

Dimensions with miniature control valves (page 62) + miniature solenoid valves (page 58) + indicators (page 65)



ATEX version products are available in the following catalogues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

Valves and solenoids valves assembled

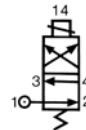
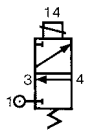


Contact us for
Other versions

Part numbers

Function	3/2 NC	4/2 monostable		
Sub-base with push-in connection for semi-rigid tubing (NFE 49100)	Ø 4 ext.	Ø 4 ext.		
Version	Solenoid valve with manual override by impulse	Solenoid valve with manual override by impulse		
Voltage	24 VDC (+10% -15%)	81 513 103	81 513 203	

Symbol

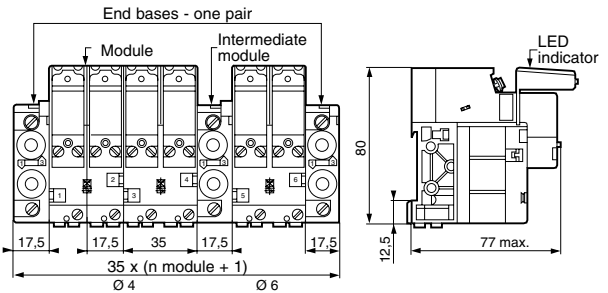
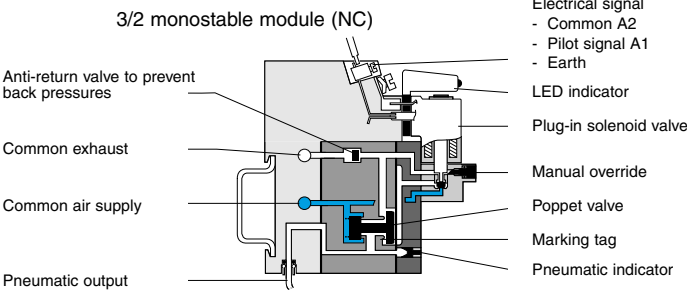


Characteristics

Operating pressure	bar	3→8	3→8		
Orifice diameter	mm	3	3		
Flow at sub-base 81 513 060	NL/min	200	200		
6 bars sub-base 81 517 101	NL/min	—	—		
KV with sub-base 81 513 060		2.2	2.2		
with sub-base 81 517 101		—	—		
Operating temperature	°C	-10 → +50	-10 → +50		
Switching time of the assembly	ms	20	20		
Mechanical life (operations) at 4 bars		1.5 x 10 ⁷	1.5 x 10 ⁷		
Valve position will be maintained in the event of pressure loss and/or electrical current loss		—	—		
Mounting		DIN rail 35 mm	DIN rail 35 mm		
Weight	g	130	130		
UL and cUL approval		MH15085	MH15085		

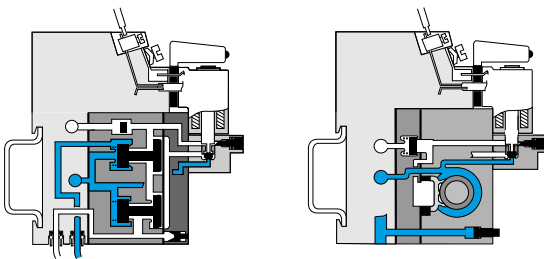
Principle of operation

Dimensions



4/2 monostable module

4/2 bistable module

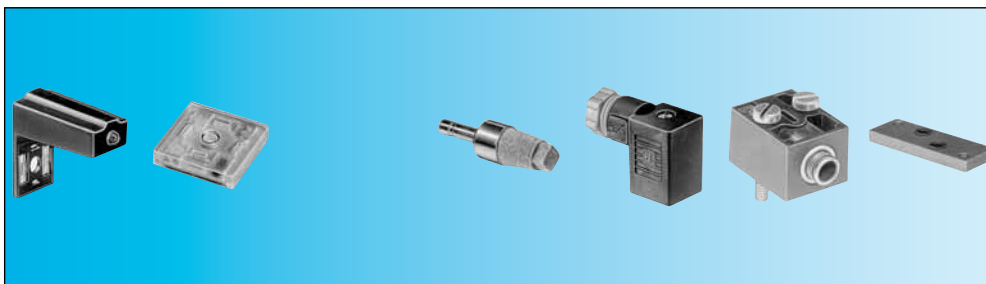


End bases not supplied (page 63)
Intermediate bases not supplied (page 63)
Indicators not supplied (page 65)

Accessories



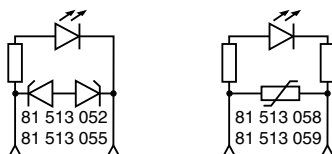
Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive



Part numbers

Visual indicators with anti-surge	24 V - 50-60 Hz ~	81 513 052	—	—	—	—	—	—
	48 V - 50-60 Hz ~	81 513 055	—	—	—	—	—	—
	110 V - 50-60 Hz ~	81 513 058	—	—	—	—	—	—
	230 V - 50-60 Hz (-10% +6 %)	81 513 059	—	—	—	—	—	—
LED seal Packaging	12 to 24 V - DC - AC (by 5)	81 513 064 (by 10)	—	—	—	—	—	—
Exhaust silencer	Plug-in Ø 6	—	—	81 537 001	—	—	—	—
	Plug-in Ø 8	—	—	81 537 201	—	—	—	—
Connector for solenoid valve	Without manual override	—	—	—	81 516 082	—	—	—
Pneumatic pilots	With manual override by impulse	—	—	—	—	81 516 081	—	—
		—	—	—	—	81 516 091	—	—
Push-in connection for semi-rigid tubing Ø 4 mm (NFE 49100)		—	—	—	—	•	—	—
Blanking plate		—	—	—	—	—	—	81 516 085

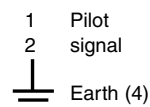
Symbol



Characteristics

Consumption	W	—	0.24	—	—	—	—	—
Temperature	°C	—	- 10 → +50	—	—	—	—	—
Connection	mm	—	—	—	—	Instantané Ø 4 ext.	—	—
Mounted between the pilot solenoid valve and the body of the module		•	•	—	—	—	—	—
Supplied in multiples of 5		•	—	—	—	—	—	—
Supplied in multiples of 10		—	•	—	—	•	•	•
Packet of 10 pieces		—	—	—	—	—	—	•
Weight	g	6	2	30	10	5	3	—

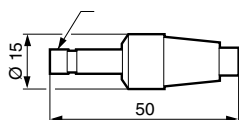
Connection



Dimensions

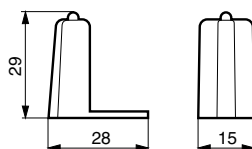
81 537 001 - 81 537 201

Mounted by plugging into push-in connector for semi-rigid tubing (NFE 49100)

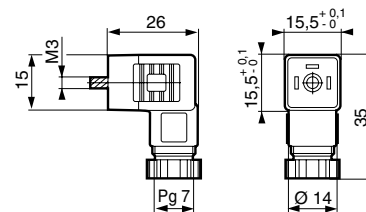


81 513 052 - 81 513 055

81 513 058 - 81 513 059



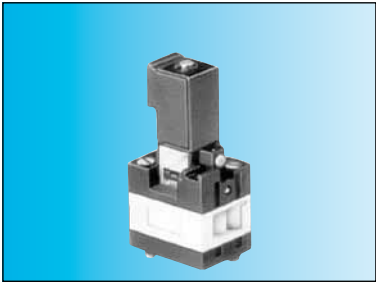
81 516 082



ATEX version products are available in the following catalogues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

Solenoid valves

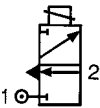
- Reduced "dimensions"
- Mounted on sub-base



Part numbers and voltages

Function		3/2 NC	
Mounting		On sub-base (54)	
Solenoid valves	24 V (+10% -15%)	81 519 732	
with	24 V - 50/60 Hz (+10% -15%)	81 519 774	
manual	48V - 50/60 Hz (+10% -15%)	81 519 775	
override	110 V - 50/60 Hz (+10% -15%)	81 519 776	
by impulse	220 - 230 V - 50/60 Hz (+10% -15%)	81 519 777	

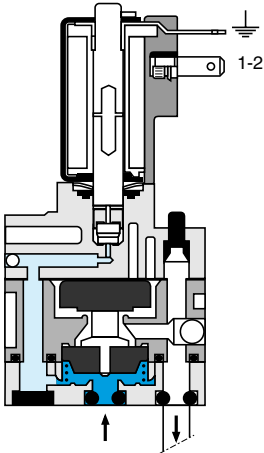
Symbol



Characteristics

Operating pressure	bar	2 → 8	
Orifice diameter	mm	2.7	
Flow at 6 bars	NI/min	170	
Rotatable coil 4 positions in 90° steps		•	
Degree of protection (with connector 81 516 082 not supplied) (see page 65)	IEC 529	IP 65	
Mechanical life	operations	1.5 x 10 ⁷	
Consumption	W	1	
	VA	2.5	
Operating temperature	°C	-5 → +50	
Weight	g	70	
UL and cUL approval		MH15085	

Principle of operation



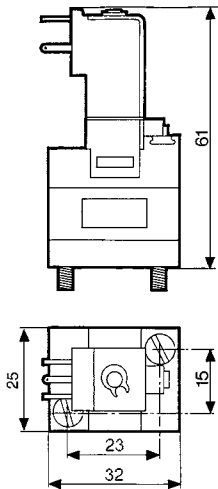
Connections

- Pneumatic { 1 - Supply
2 - Output
- Electrical { 1 - 2 - Pilot signal
⊥ Earth

Electrical connection by connector 81 516 062 (see page 65)

Dimensions 81 519

On separate sub-base



► Specific islands "for integrators" (supplied in packs of 20)

► Versions with interfaces 300 NL / mm



Configuration

- 1 - Specify the number and type of interfaces (3 / 2 mono - 4 / 2 mono - 4 / 2 bistable) see page 62.
- 2 - Specify the voltage, the type and method of the control valve connections, see page: 58-59 (Example: 24 V DC with manual switch maintained, exit leads).
- 3 - Please send us your application specifying your requirements and quantities per year, and we will respond as soon as possible.

► Versions with interfaces 30 NL / mm



Configuration

- 1 - Specify the voltage, the type and method of the control valve connections, see page: 58-59 (Example: 24 V DC with manual switch maintained, exit leads).
- 2 - Please send us your application specifying your requirements and quantities per year, and we will respond as soon as possible.

► Develop customised versions to specifications



Crouzet analyses your needs and offers a customised solution.

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