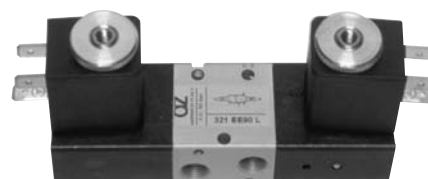


# valvole ad azionamento elettropneumatico

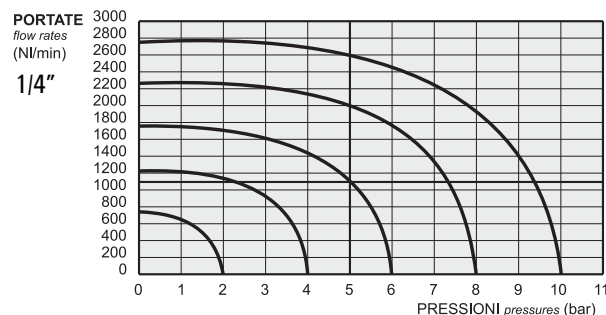
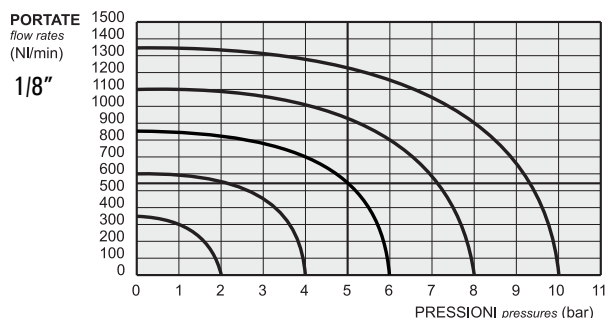
*solenoid actuated valves*



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"-G1/4"  
*3/2-5/2-5/3 spool valves with G1/8"-G1/4" threaded ports*
- Montaggio in linea, su collettori multipli o su basi manifold  
*Installation in-line, on gang or modular manifolds*
- Comandi elettrici con azionamento manuale bistabile  
*Solenoid pilots with detented manual override as standard*
- A richiesta versione a basso assorbimento 1.5W  
*On request with low consumption 1.5W*
- Esecuzioni speciali a richiesta  
*Special versions on request*



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 121).  
*The following listed products are sold without coils, which are bought separately (refer to page 121).*



## Tempi di risposta - response times

	1/8"	1/4"
monostabile <i>mono-stable</i>	TRA (14): 15 ms TRR (12): 35 ms	TRA (14): 19 ms TRR (12): 45 ms
bistabile <i>bi-stable</i>	TRA (14): 20 ms TRR (12): 20 ms	TRA (14): 22 ms TRR (12): 22 ms

## Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

## Materials

Body: aluminium 11S

Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

Diametro nominale <i>Nominal orifice</i>	1/8": 5 mm 1/4": 7.5 mm		
Temperatura di esercizio <i>Temperature range</i>	max +60°C		
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [ <i>monost. internal air supply</i> ]	al. interna bist. [ <i>bi-stable internal air supply</i> ]	alim. separata [ <i>separate air supply</i> ]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	max 10 bar max 1 MPa
Pressione di azionamento (per alimentazione separata) <i>Actuating pressure (for separate air supply)</i>	monostabile [ <i>mono-stable</i> ]		bistabile [ <i>bi-stable</i> ]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>		

# valvole ad azionamento elettropneumatico

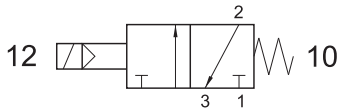
*solenoid actuated valves*



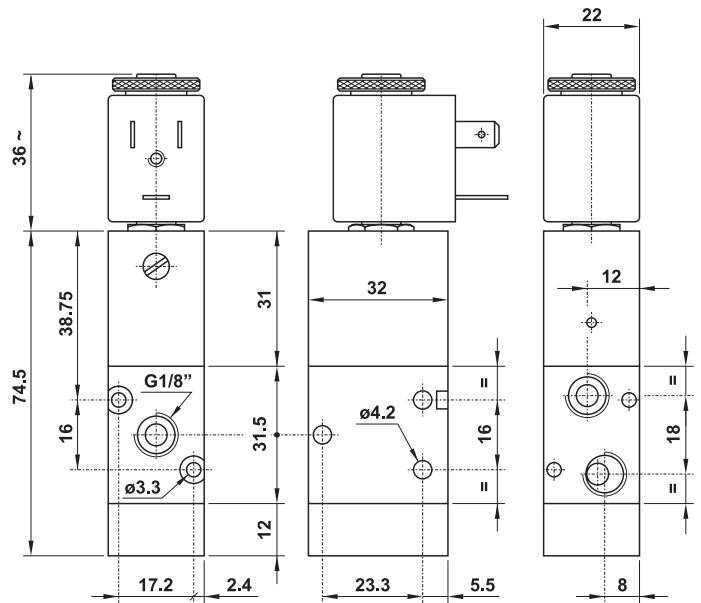
## 321 ME

3/2 1/8" NC comando elettrico - ritorno a molla

3/2 1/8" NC solenoid pilot - spring return



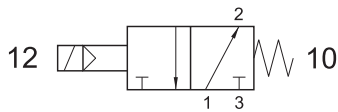
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



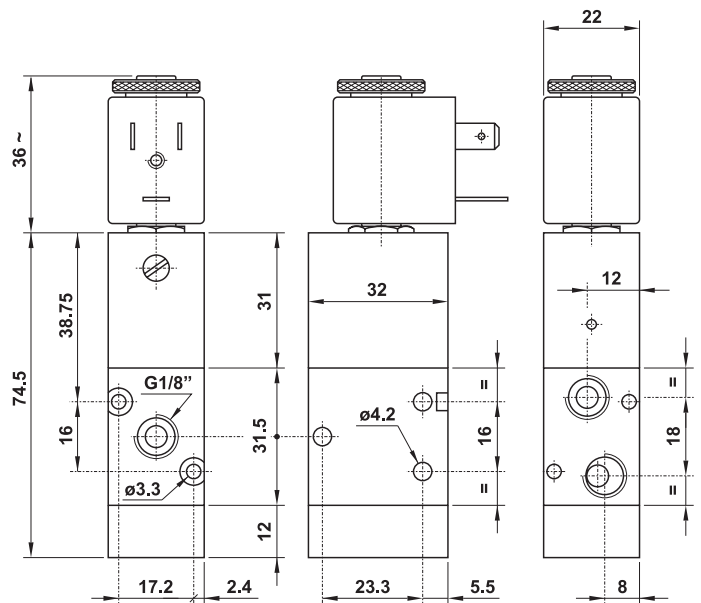
## 321 MEA

3/2 1/8" NA comando elettrico - ritorno a molla

3/2 1/8" NO solenoid pilot - spring return



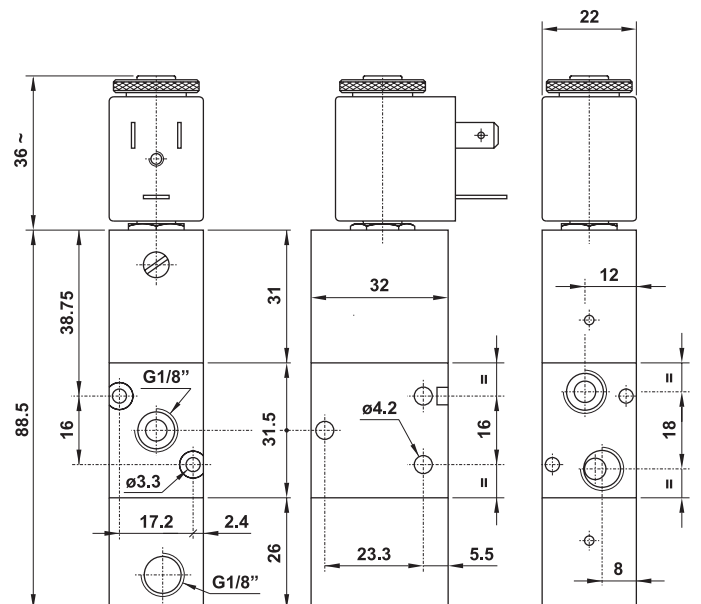
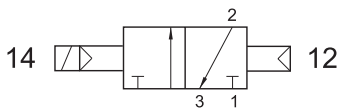
Non può essere utilizzata come valvola normalmente chiusa.  
It cannot be used as normally closed valve.



## 321 CE

3/2 1/8" comando elettrico - ritorno a comando pneumatico

3/2 1/8" solenoid pilot - separate pneumatically piloted return





# valvole ad azionamento elettropneumatico

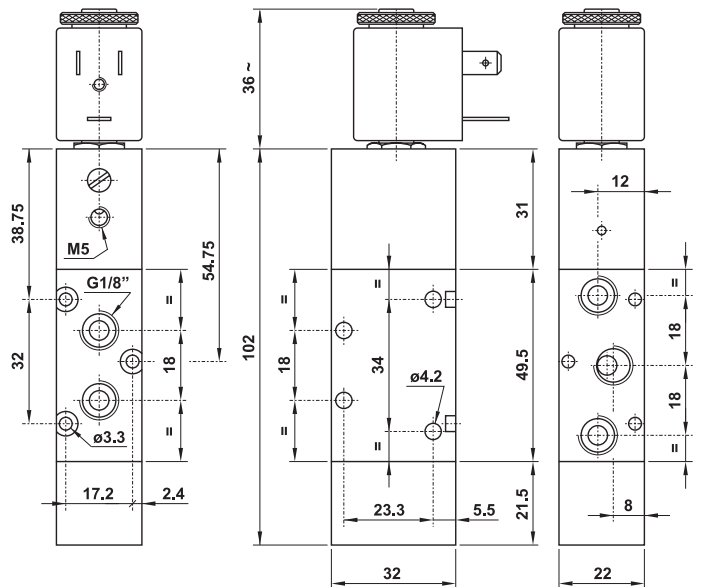
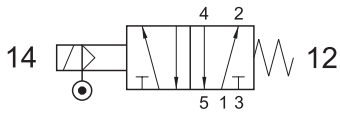
*solenoid actuated valves*



## 521 ME AS

5/2 1/8" comando elettrico alimentazione separata - ritorno a molla

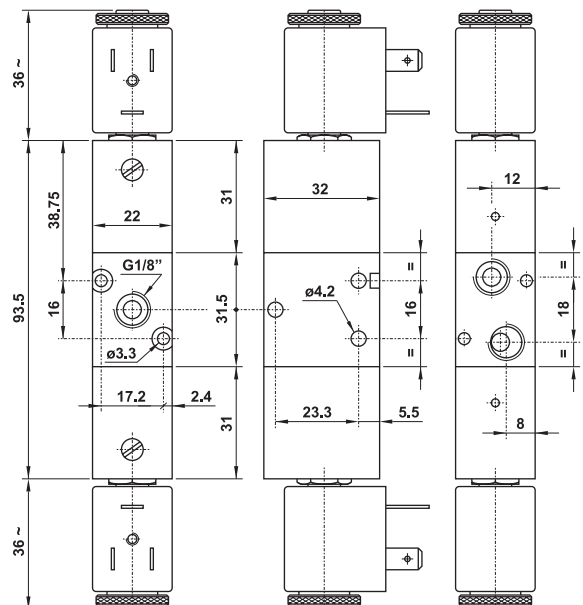
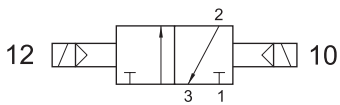
5/2 1/8" solenoid pilot with separate air supply - spring return



## 321 EE

3/2 1/8" doppio comando elettrico

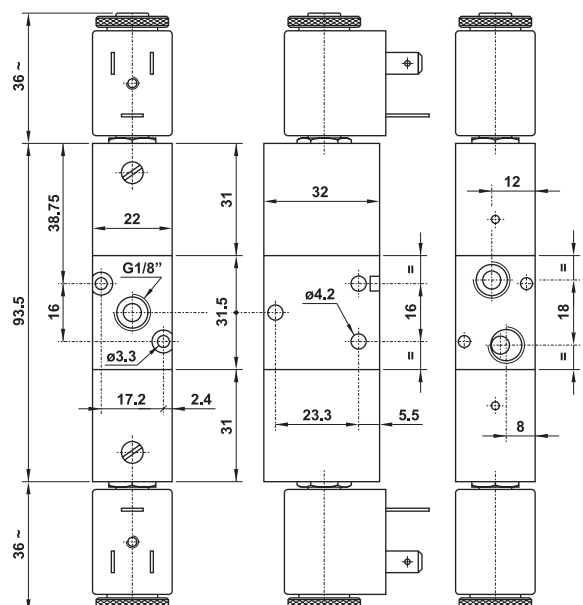
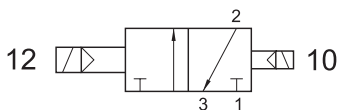
3/2 1/8" double solenoid pilot



## 321 EED

3/2 1/8" doppio comando elettrico - con differenziale

3/2 1/8" double solenoid pilot - with differential



# valvole ad azionamento elettropneumatico

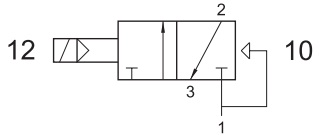
*solenoid actuated valves*



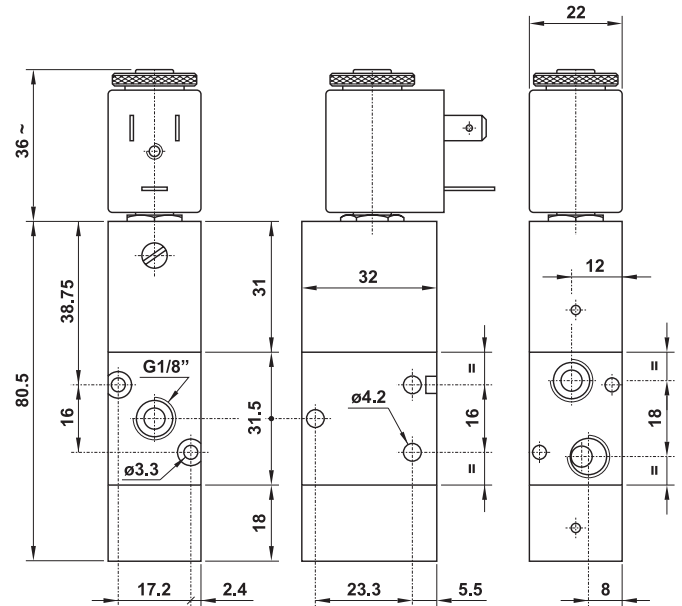
## 321 EFP

3/2 1/8" NC comando elettrico - ritorno a molla pneumatica

3/2 1/8" NC solenoid pilot - pneumatic spring return



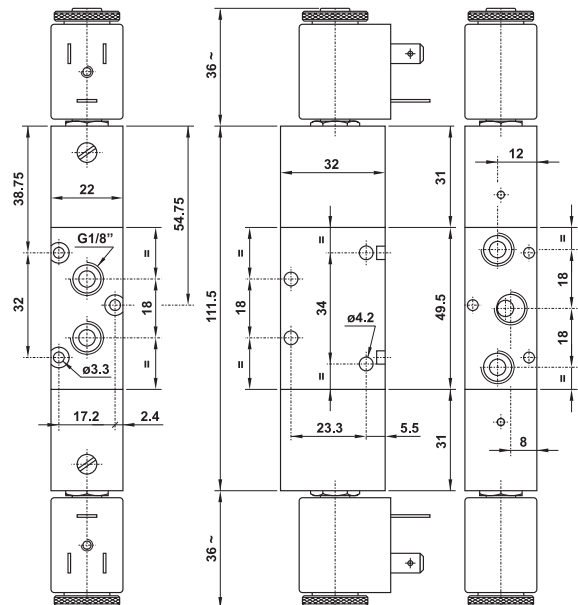
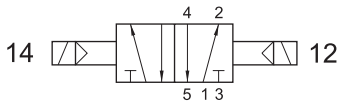
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



## 521 EE

5/2 1/8" doppio comando elettrico

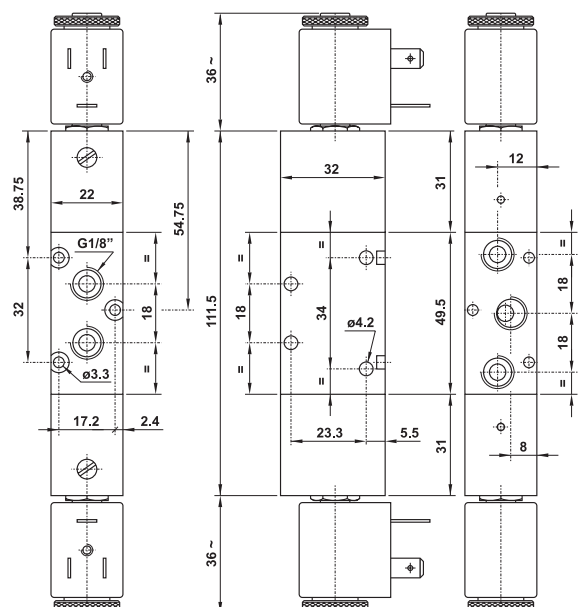
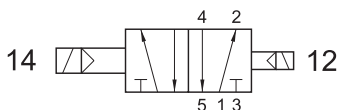
5/2 1/8" double solenoid pilot



## 521 EED

5/2 1/8" doppio comando elettrico - con differenziale

5/2 1/8" double solenoid pilot - with differential



# valvole ad azionamento elettropneumatico

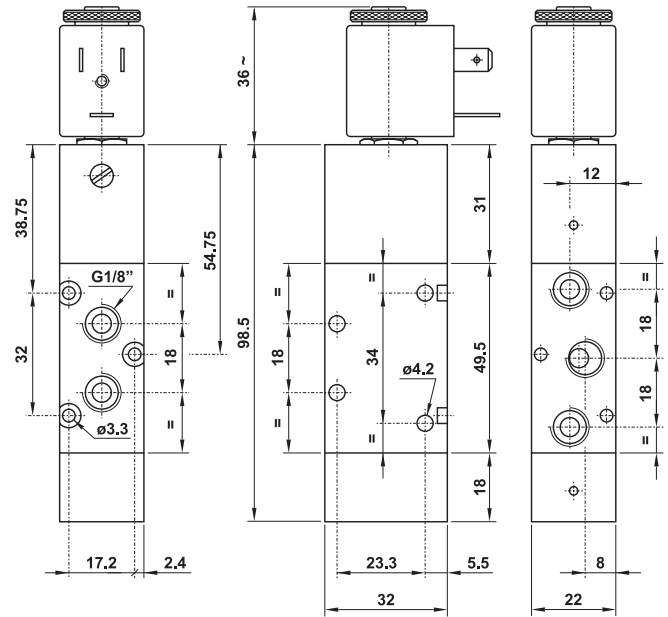
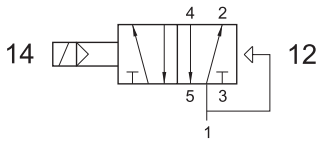
*solenoid actuated valves*



## 521 EFP

5/2 1/8" comando elettrico - ritorno a molla pneumatica

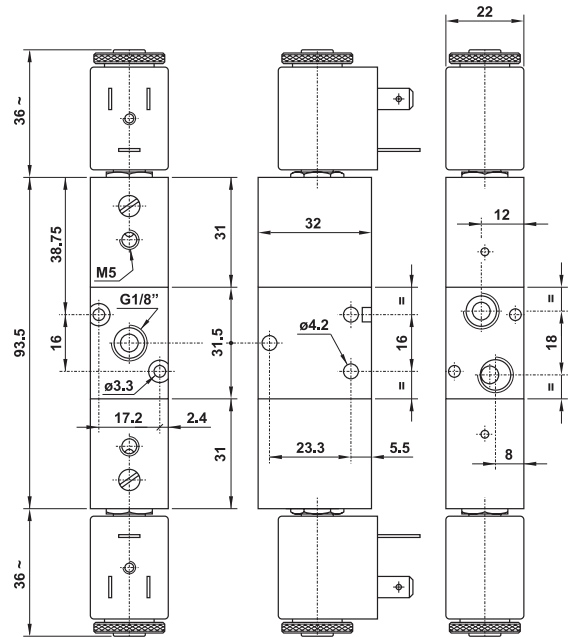
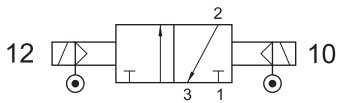
5/2 1/8" solenoid pilot - pneumatic spring return



## 321 EE AS

3/2 1/8" doppio comando elettrico alimentazione separata

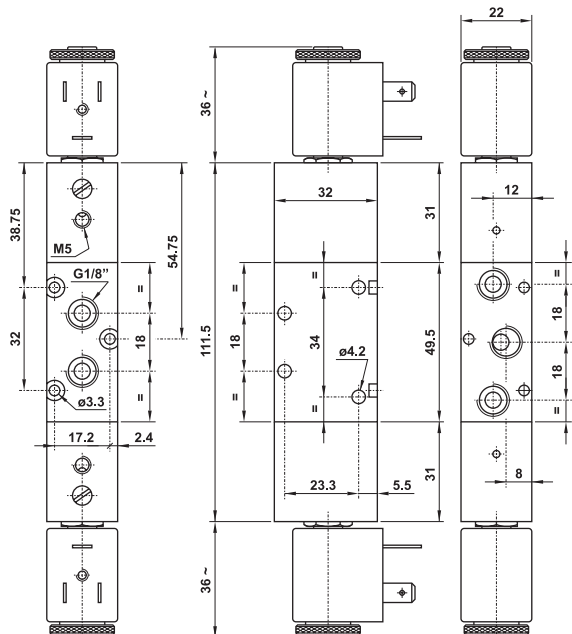
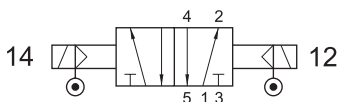
3/2 1/8" double solenoid pilot with separate air supply



## 521 EE AS

5/2 1/8" doppio comando elettrico alimentazione separata

5/2 1/8" double solenoid pilot with separate air supply



# valvole ad azionamento elettropneumatico

*solenoid actuated valves*



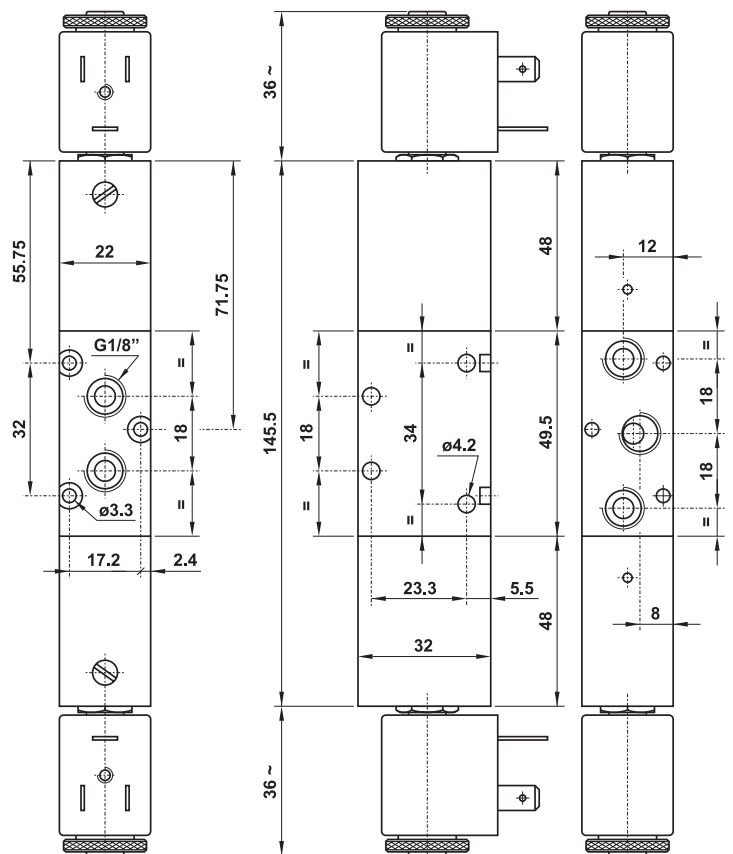
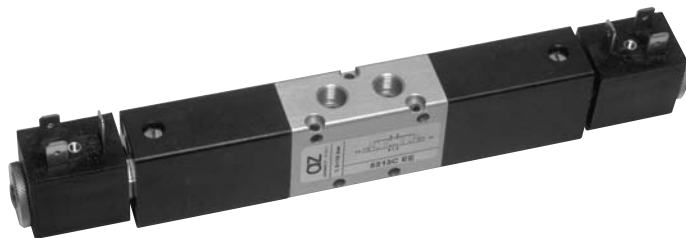
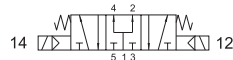
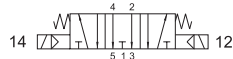
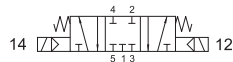
**5213C EE** centri chiusi  
*closed centres*

**5213A EE** centri aperti  
*open centres*

**5213P EE** centri in pressione  
*pressurized centres*

5/3 1/8" doppio comando elettrico

*5/3 1/8" double solenoid pilot*



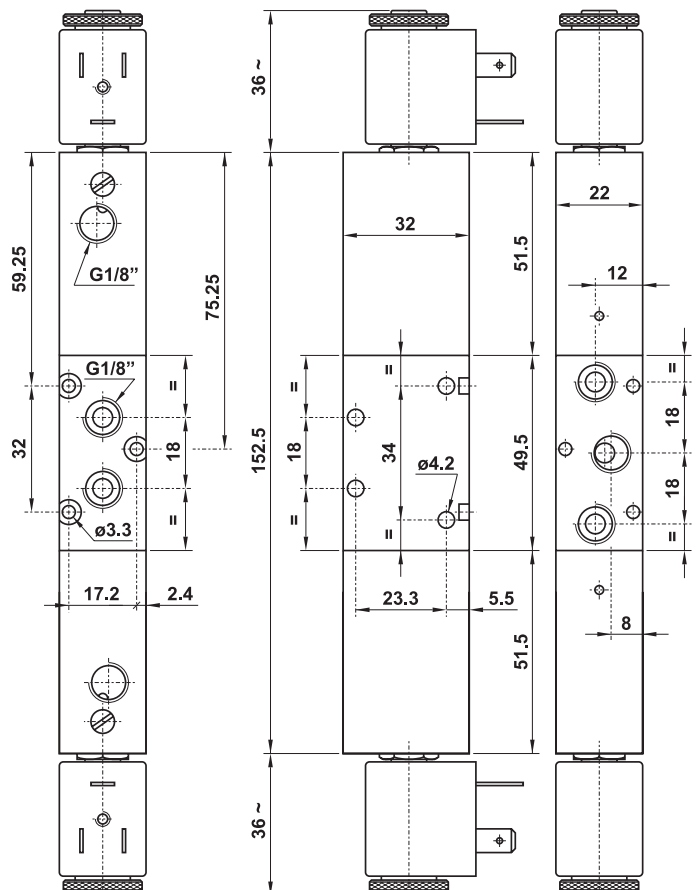
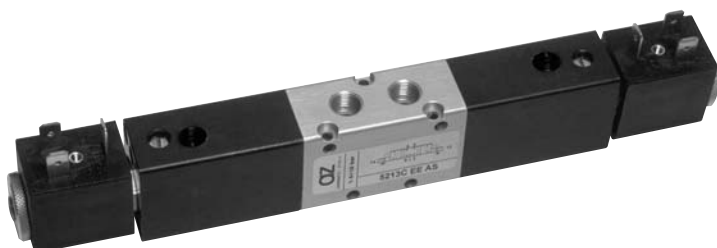
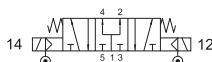
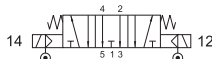
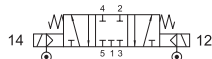
**5213C EE AS** centri chiusi  
*closed centres*

**5213A EE AS** centri aperti  
*open centres*

**5213P EE AS** centri in pressione  
*pressurized centres*

5/3 1/8" doppio comando elettrico alimentazione separata

*5/3 1/8" double solenoid pilot with separate air supply*



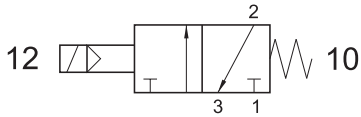
# valvole ad azionamento elettropneumatico

solenoid actuated valves

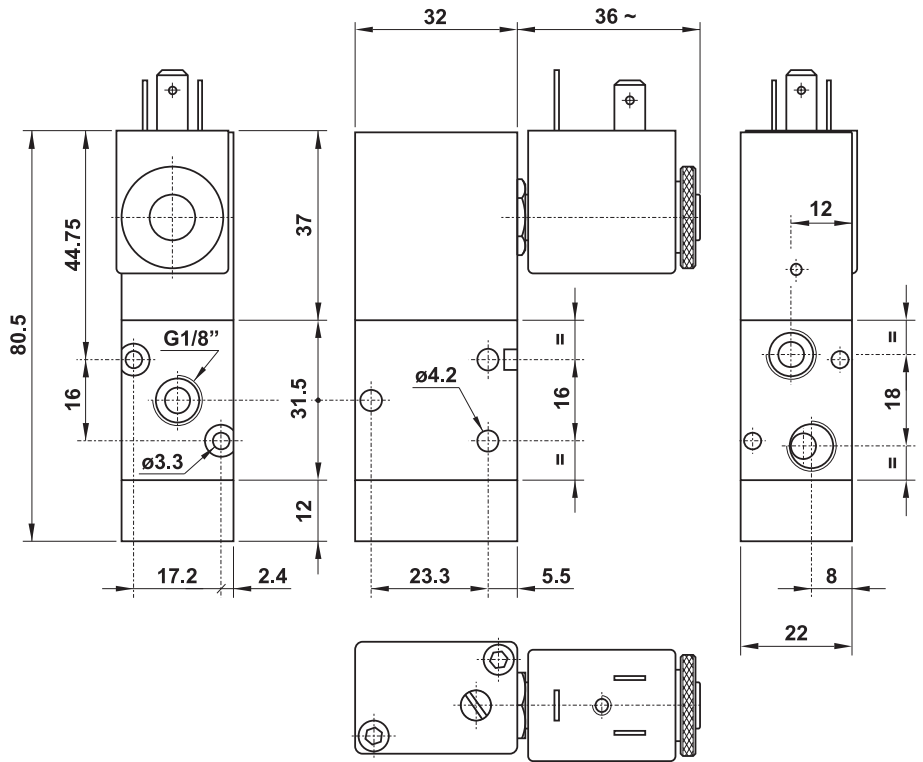


## 321 ME90 S

3/2 1/8" NC comando elettrico 90° sul lato stretto - ritorno a molla  
3/2 1/8" NC 90° solenoid pilot on the narrow side for compact assembly - spring return

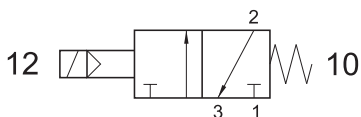


Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.

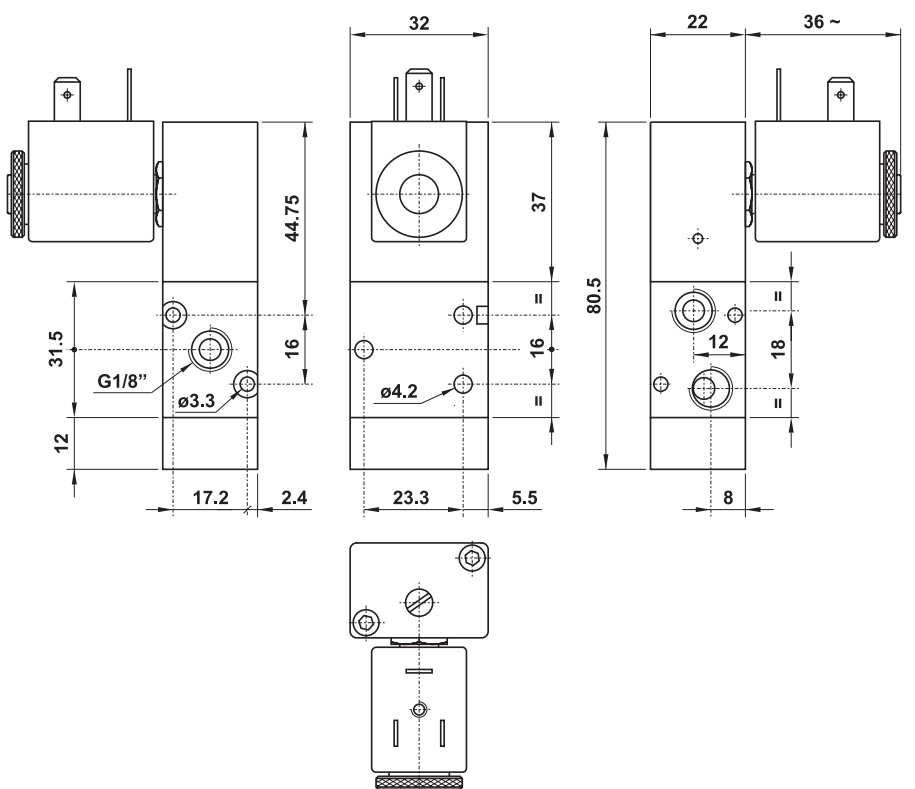


## 321 ME90 L

3/2 1/8" NC comando elettrico 90° sul lato largo - ritorno a molla  
3/2 1/8" NC 90° solenoid pilot on the wide side - spring return



Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.





# valvole ad azionamento elettropneumatico

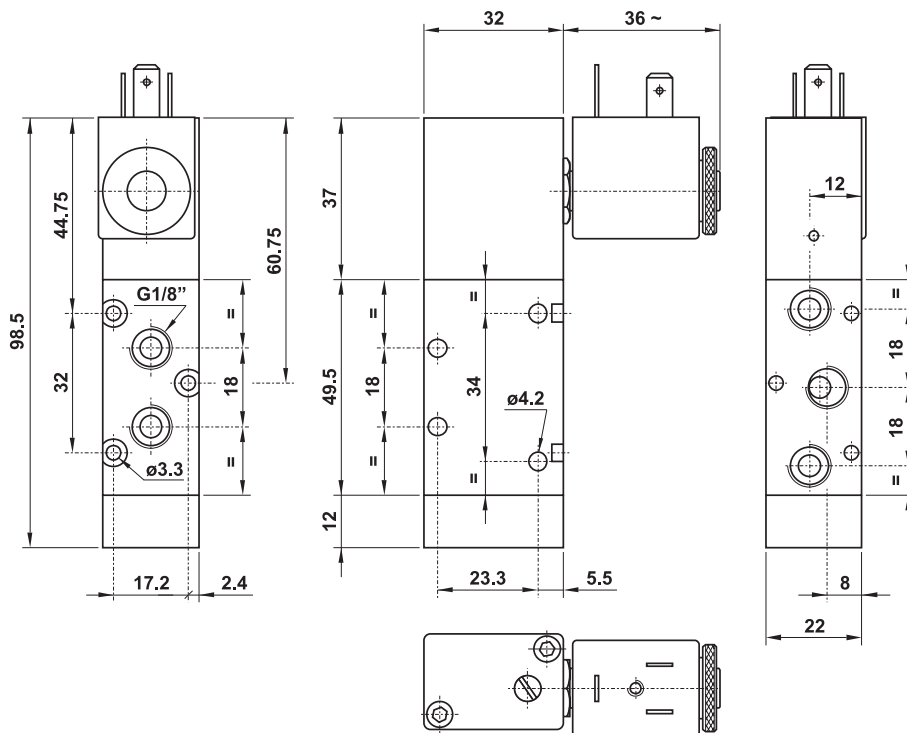
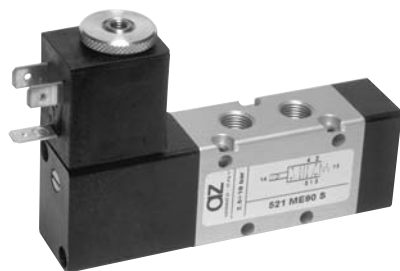
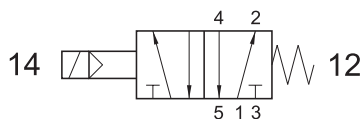
solenoid actuated valves



## 521 ME90 S

5/2 1/8" comando elettrico 90° sul lato stretto - ritorno a molla

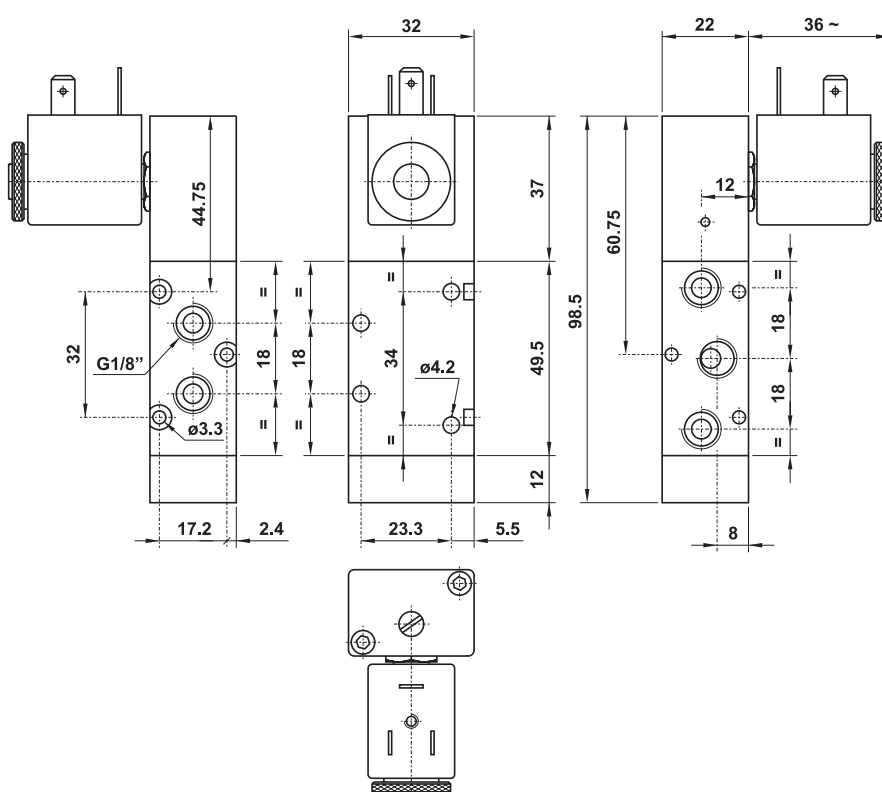
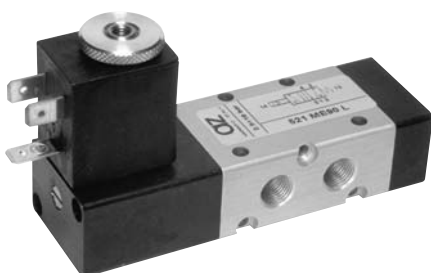
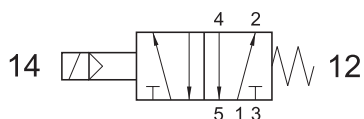
5/2 1/8" 90° solenoid pilot on the narrow side for compact assembly - spring return



## 521 ME90 L

5/2 1/8" comando elettrico 90° sul lato largo - ritorno a molla

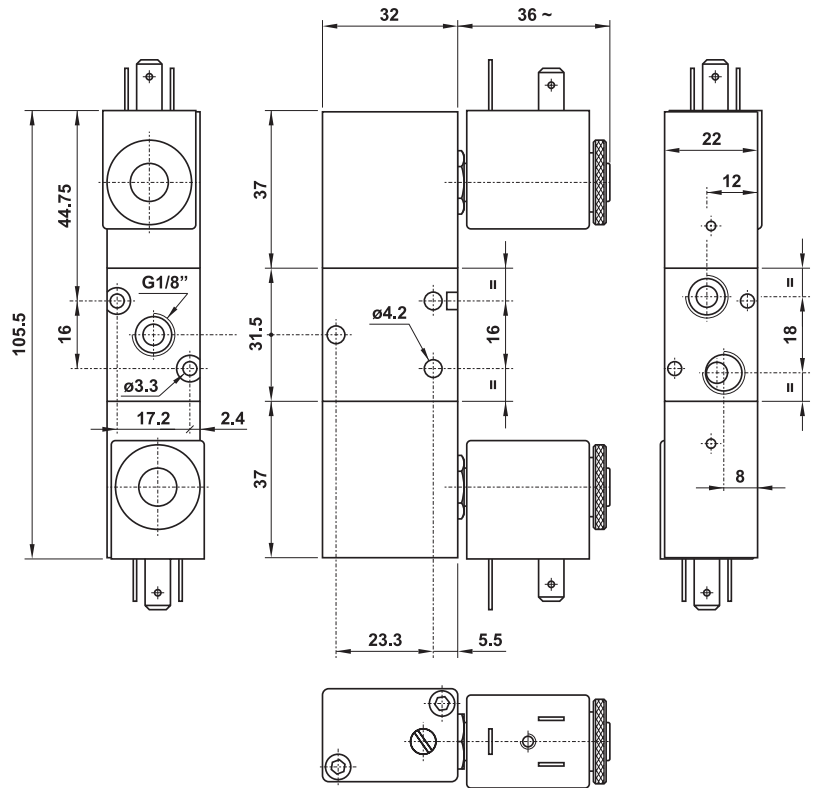
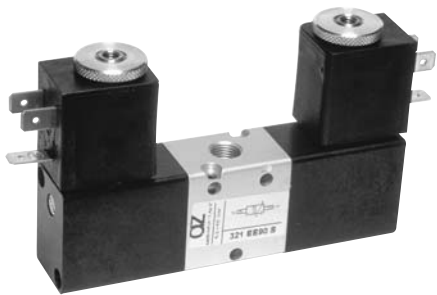
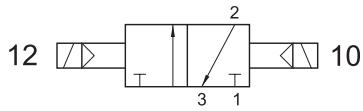
5/2 1/8" 90° solenoid pilot on the wide side - spring return



## 321 EE90 S

3/2 1/8" doppio comando elettrico 90° sul lato stretto

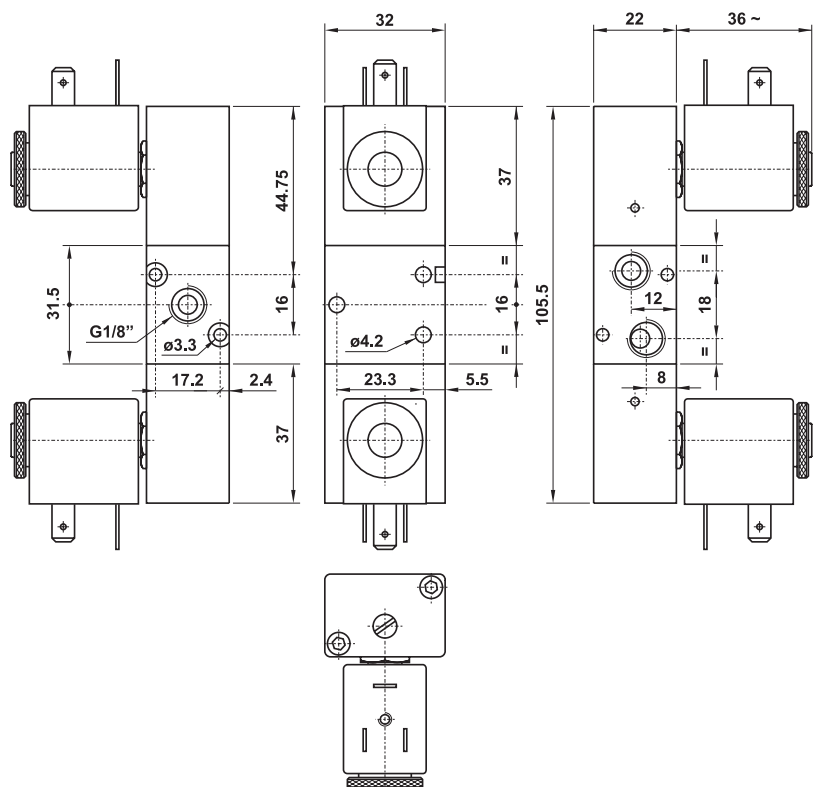
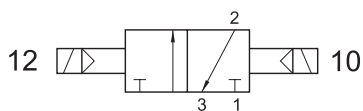
3/2 1/8" 90° double solenoid pilot on the narrow side for compact assembly



## 321 EE90 L

3/2 1/8" doppio comando elettrico 90° sul lato largo

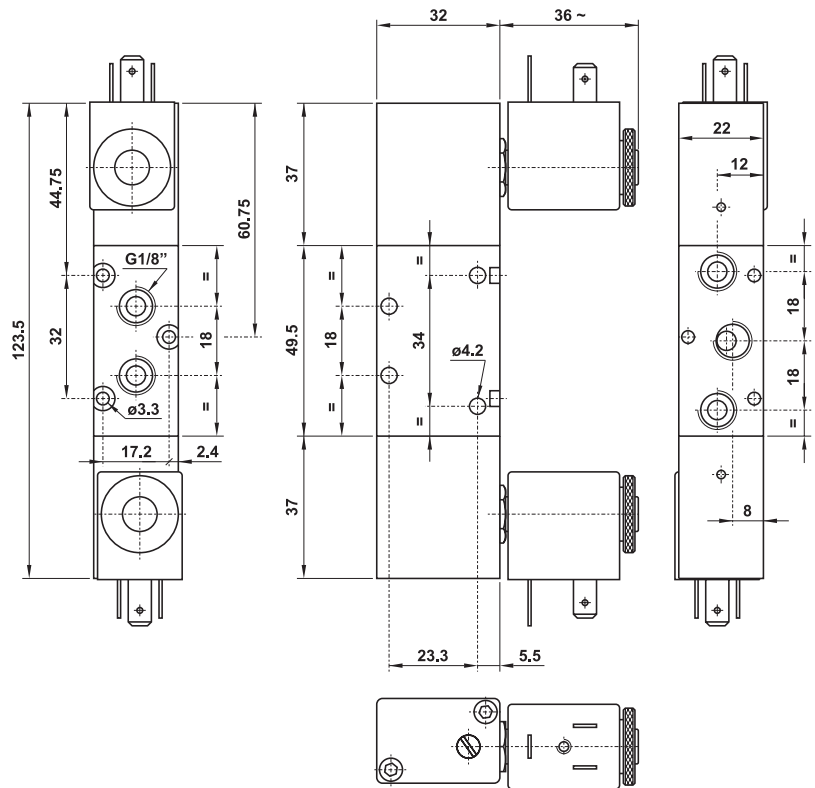
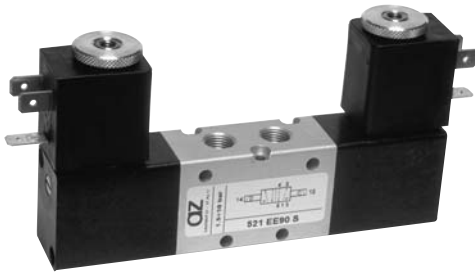
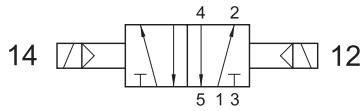
3/2 1/8" 90° double solenoid pilot on the wide side



## 521 EE90 S

5/2 1/8" doppio comando elettrico 90° sul lato stretto

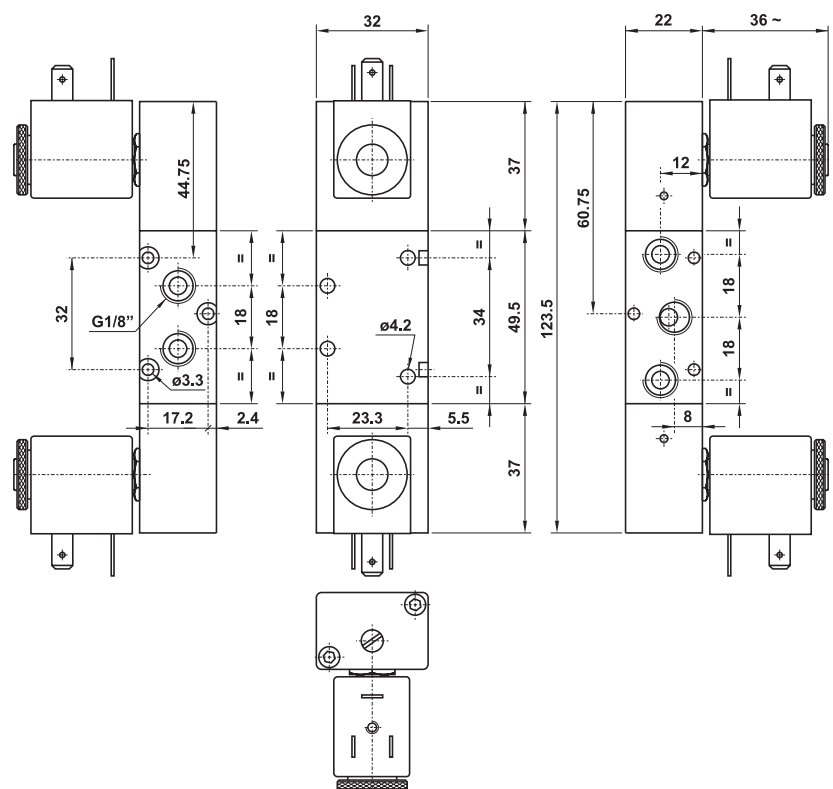
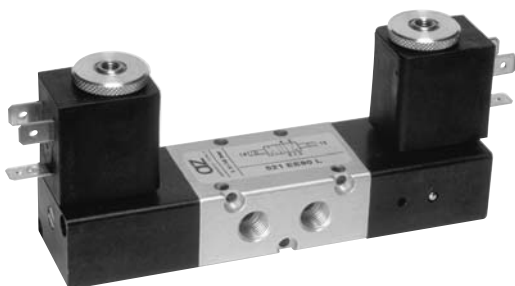
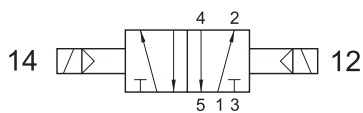
5/2 1/8" 90° double solenoid pilot on the narrow side for compact assembly



## 521 EE90 L

5/2 1/8" doppio comando elettrico 90° sul lato largo

5/2 1/8" 90° double solenoid pilot on the wide side



# valvole ad azionamento elettropneumatico

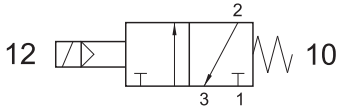
solenoid actuated valves



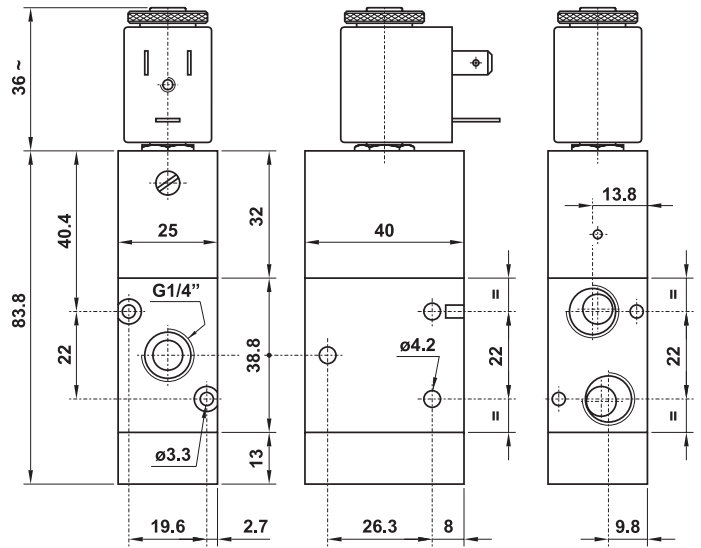
## 322 ME

3/2 1/4" NC comando elettrico - ritorno a molla

3/2 1/4" NC solenoid pilot - spring return



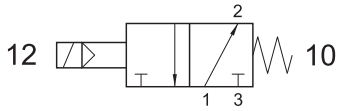
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



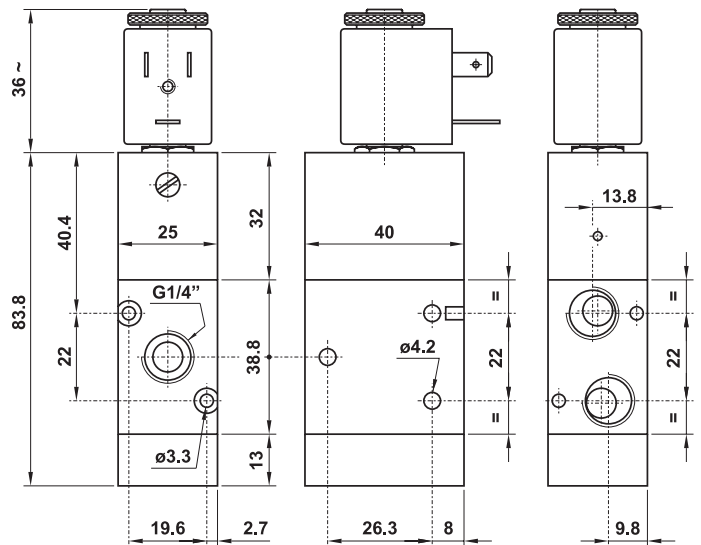
## 322 MEA

3/2 1/4" NA comando elettrico - ritorno a molla

3/2 1/4" NO solenoid pilot - spring return



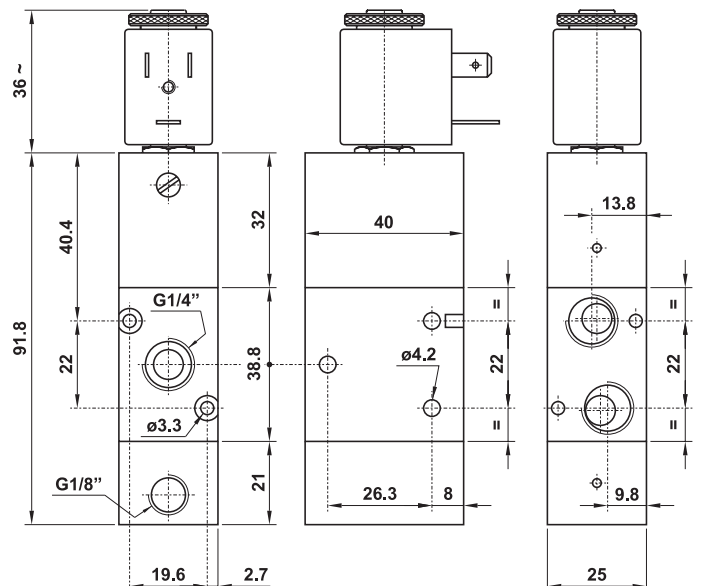
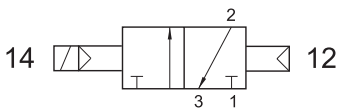
Non può essere utilizzata come valvola normalmente chiusa.  
It cannot be used as normally closed valve.



## 322 CE

3/2 1/4" comando elettrico - ritorno a comando pneumatico

3/2 1/4" solenoid pilot - separate pneumatically piloted return



# valvole ad azionamento elettropneumatico

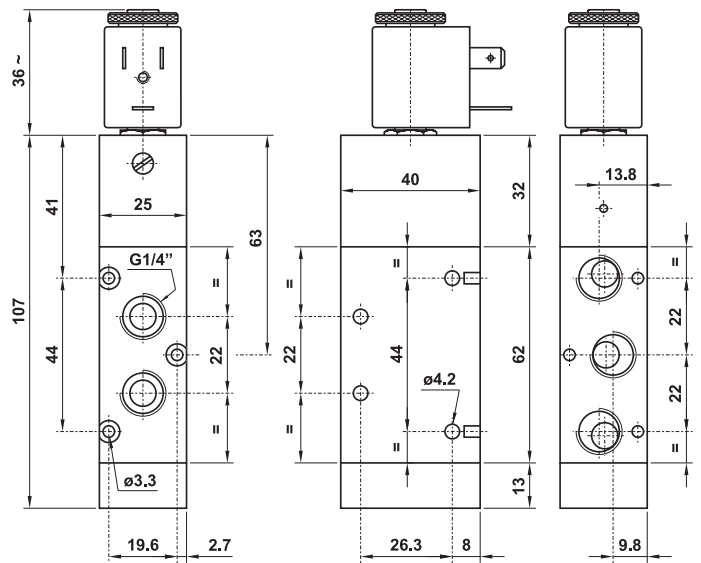
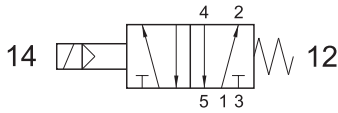
*solenoid actuated valves*



## 522 ME

5/2 1/4" comando elettrico - ritorno a molla

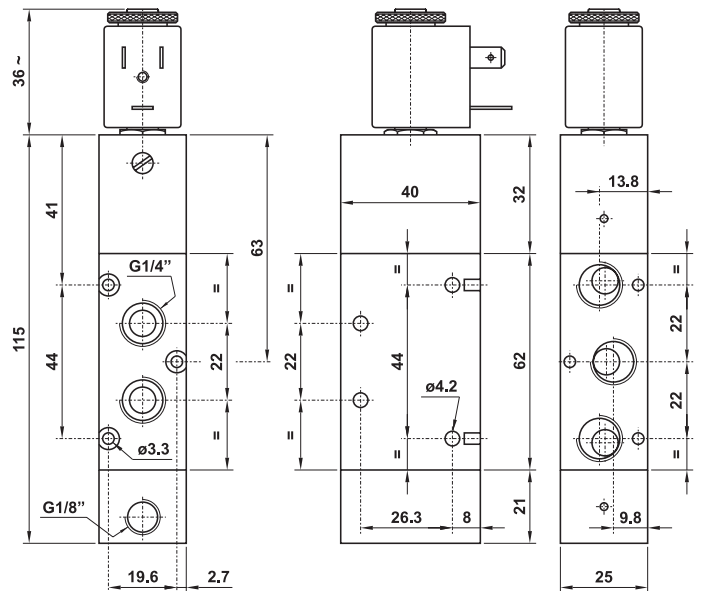
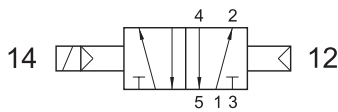
5/2 1/4" solenoid pilot - spring return



## 522 CE

5/2 1/4" comando elettrico - ritorno a comando pneumatico

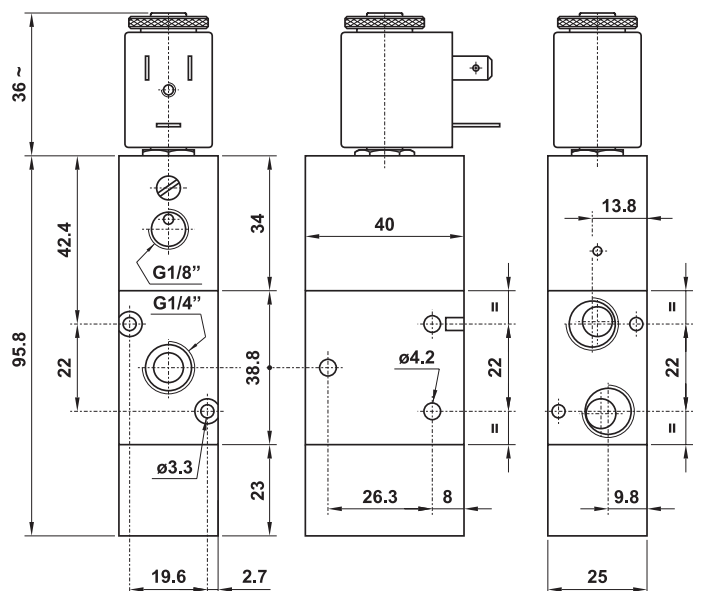
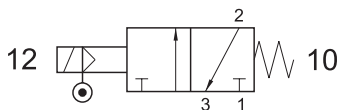
5/2 1/4" solenoid pilot - separate pneumatically piloted return



## 322 ME AS

3/2 1/4" comando elettrico alimentazione separata - ritorno a molla

3/2 1/4" solenoid pilot with separate air supply - spring return



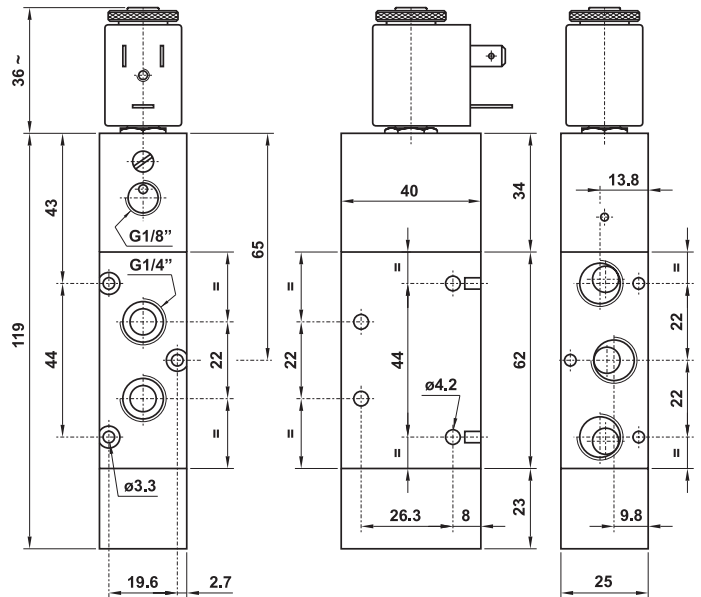
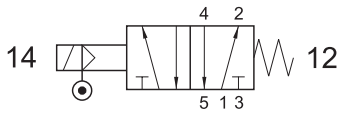
# valvole ad azionamento elettropneumatico

*solenoid actuated valves*



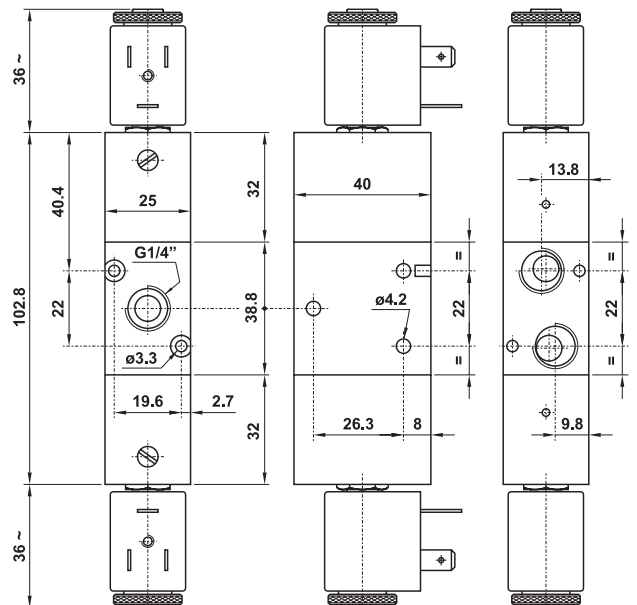
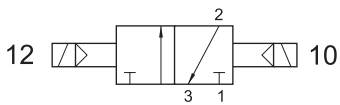
## 522 ME AS

5/2 1/4" comando elettrico alimentazione separata - ritorno a molla  
 5/2 1/4" solenoid pilot with separate air supply - spring return



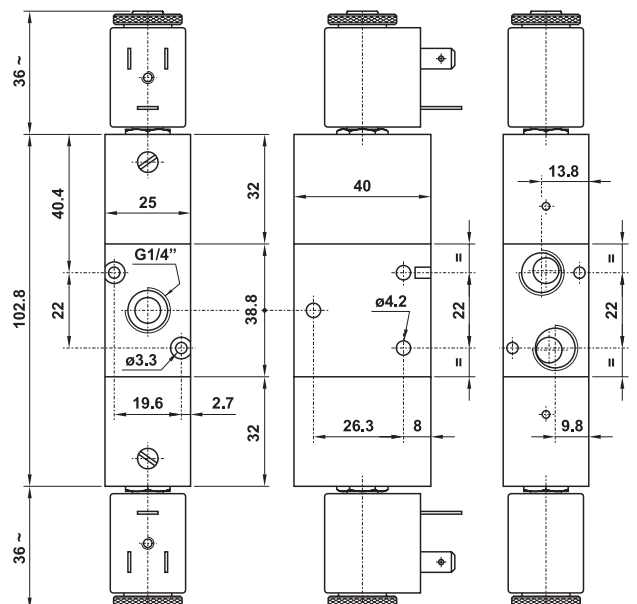
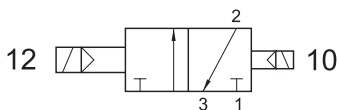
## 322 EE

3/2 1/4" doppio comando elettrico  
 3/2 1/4" double solenoid pilot



## 322 EED

3/2 1/4" doppio comando elettrico - con differenziale  
 3/2 1/4" double solenoid pilot - with differential



# valvole ad azionamento elettropneumatico

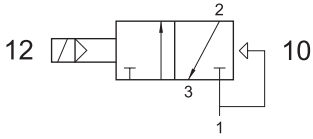
*solenoid actuated valves*



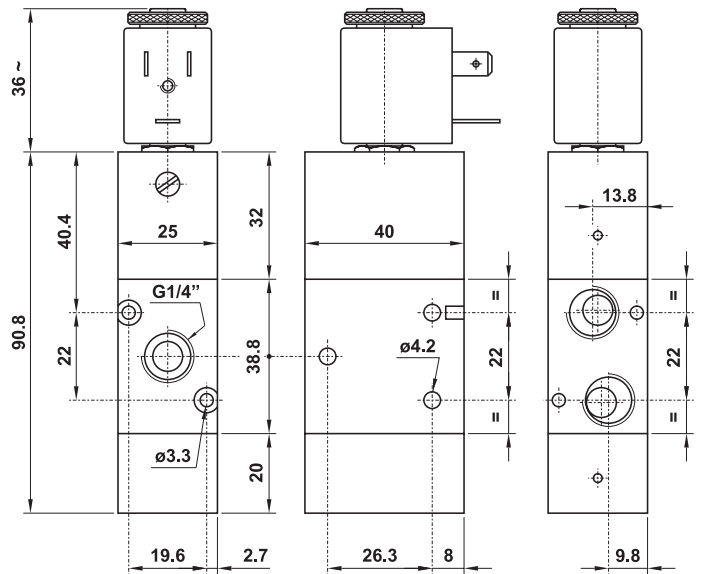
## 322 EFP

3/2 1/4" NC comando elettrico - ritorno a molla pneumatica

3/2 1/4" NC solenoid pilot - pneumatic spring return



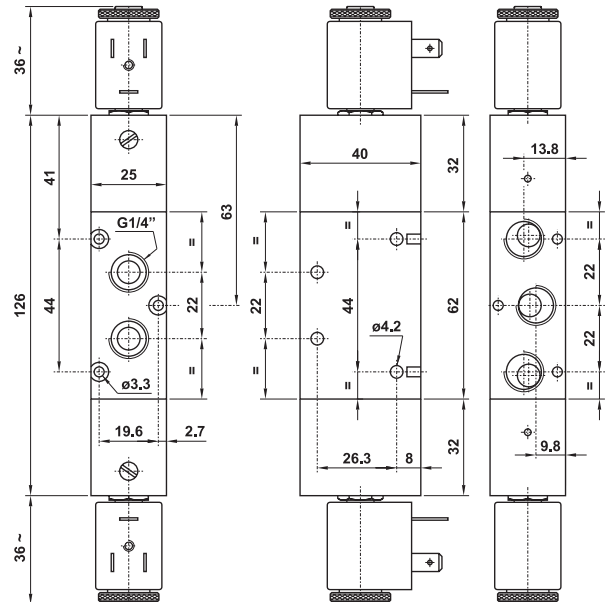
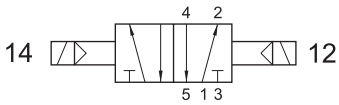
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



## 522 EE

5/2 1/4" doppio comando elettrico

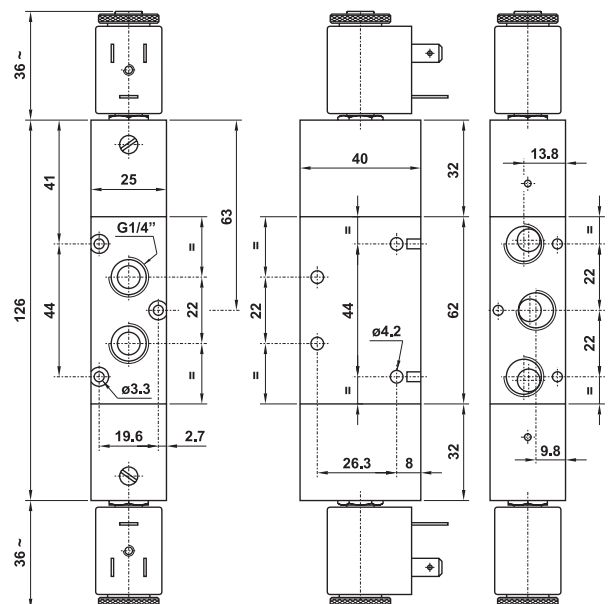
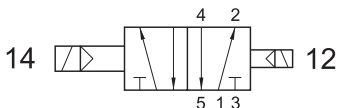
5/2 1/4" double solenoid pilot



## 522 EED

5/2 1/4" doppio comando elettrico - con differenziale

5/2 1/4" double solenoid pilot - with differential

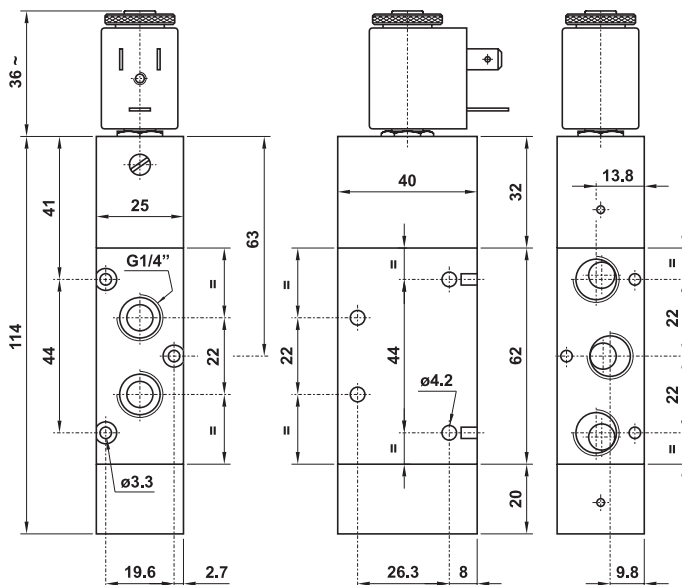
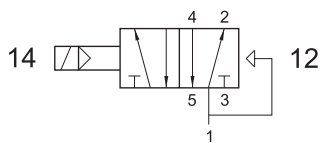




## 522 EFP

5/2 1/4" comando elettrico - ritorno a molla pneumatica

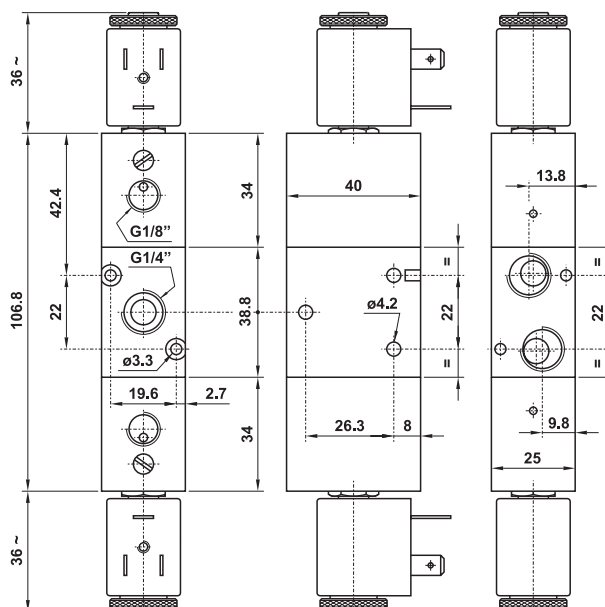
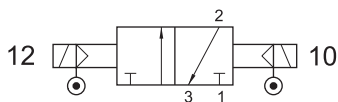
5/2 1/4" solenoid pilot - pneumatic spring return



## 322 EE AS

3/2 1/4" doppio comando elettrico alimentazione separata

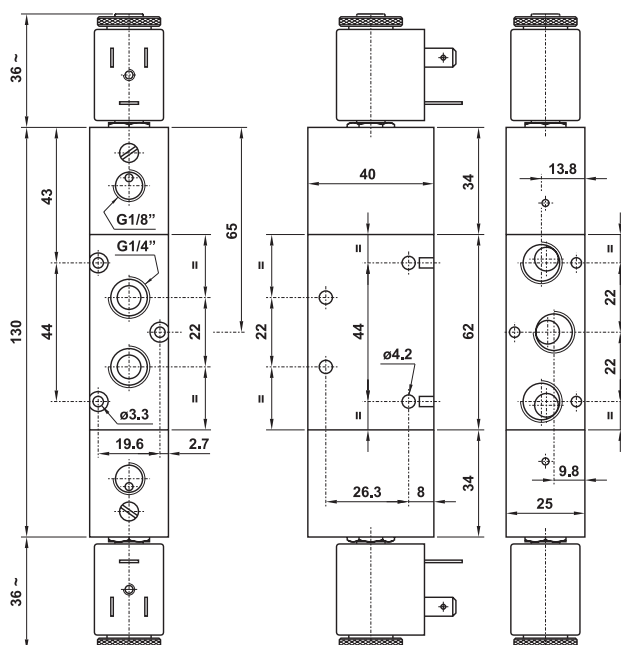
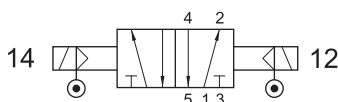
3/2 1/4" double solenoid pilot with separate air supply



## 522 EE AS

5/2 1/4" doppio comando elettrico alimentazione separata

5/2 1/4" double solenoid pilot with separate air supply





# valvole ad azionamento elettropneumatico

*solenoid actuated valves*



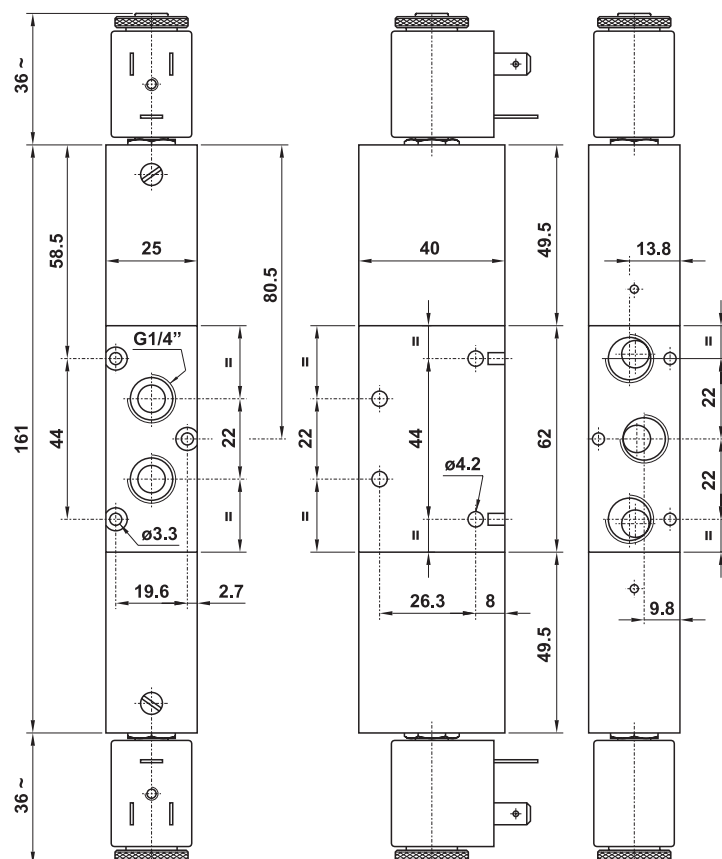
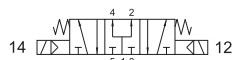
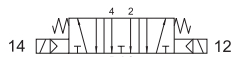
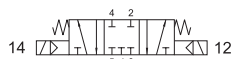
**5223C EE** centri chiusi  
*closed centres*

**5223A EE** centri aperti  
*open centres*

**5223P EE** centri in pressione  
*pressurized centres*

5/3 1/4" doppio comando elettrico

*5/3 1/4" double solenoid pilot*



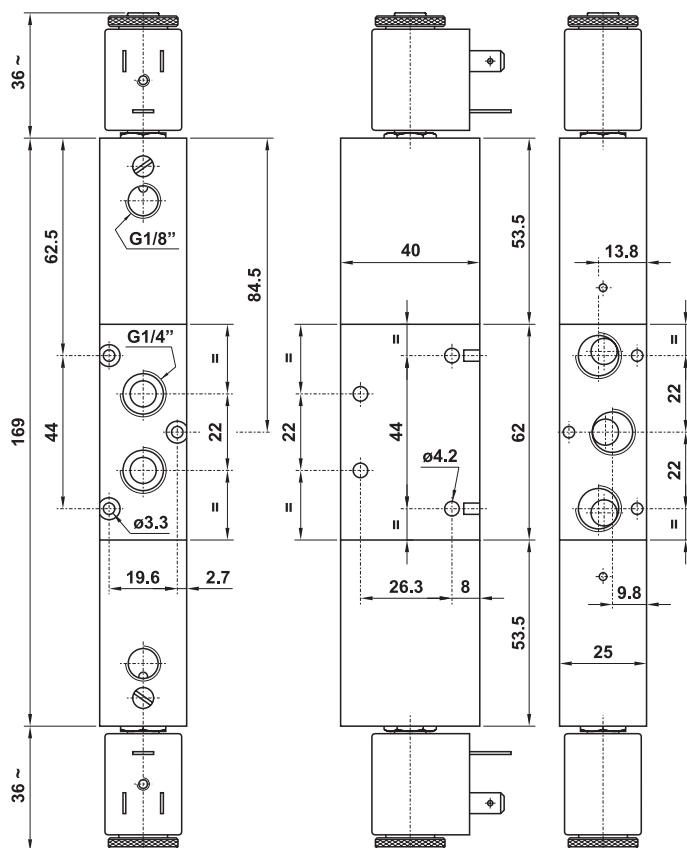
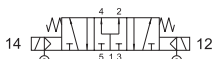
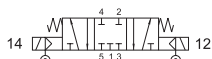
**5223C EE AS** centri chiusi  
*closed centres*

**5223A EE AS** centri aperti  
*open centres*

**5223P EE AS** centri in pressione  
*pressurized centres*

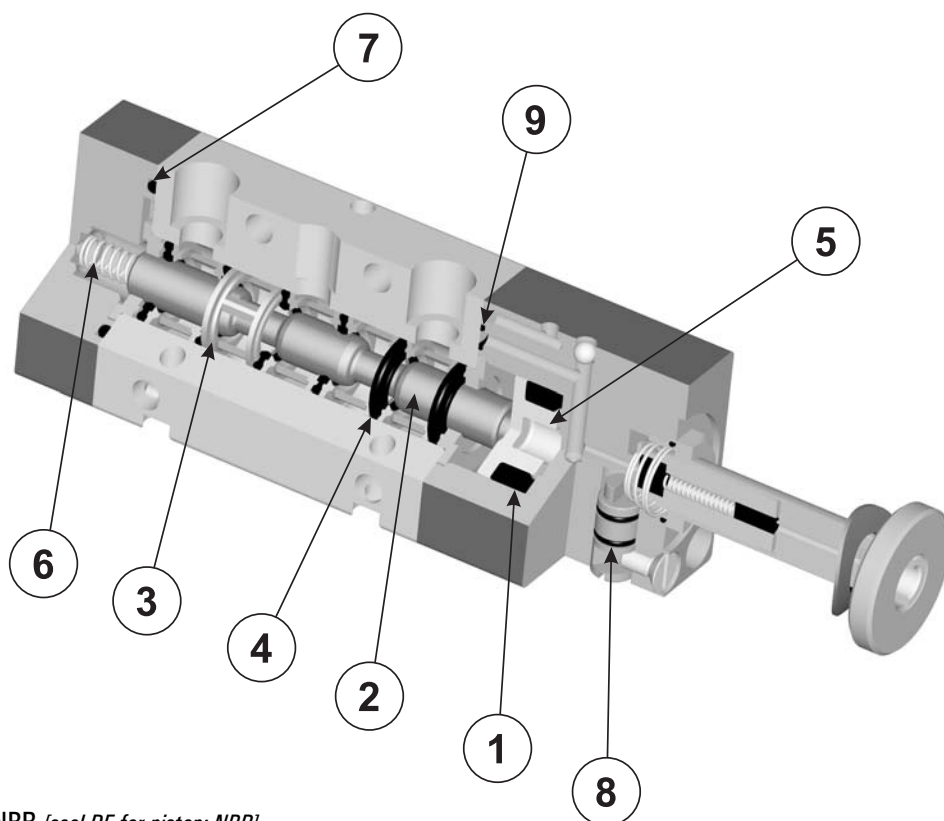
5/3 1/4" doppio comando elettrico alimentazione separata

*5/3 1/4" double solenoid pilot with separate air supply*



# ricambi per valvole a spola

spare parts for spool valves



1. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]
2. Spola: alluminio 11S nichelato [spool: aluminium 11S, nickeled]
3. Distanziale cassetto: ottone [brass]
4. Guarnizione cassetto: NBR [seal for spool: NBR]
5. Pistone per comando spola: delrin [piston to actuate the spool: delrin]
6. Molla: acciaio [spring: steel]
7. Guarnizione O-Ring: NBR
8. Guarnizione O-Ring 4x1: NBR
9. Guarnizione O-Ring sagomato: NBR [shaped O-Ring: NBR]

codice kit code of kit	utilizzabile per suitable for		
00.036.2	321 MC	321 MCA	321 ME
	321 MEA	321 ME90 S	321 ME90 L
00.039.2	521 MC	521 ME	521 ME90 S
	521 ME90 L		
00.037.2	321 CC	321 EE	321 CE
	321 EE AS	321 EE90 S	321 EE90 L
00.040.2	521 CC	521 EE	521 CE
	521 EE AS	521 EE90 S	521 EE90 L
01.014.2	322 MC	322 MC SUP	322 MCA
	322 ME	322 MEA	
01.020.2	522 MC	522 MC SUP	522 ME
01.015.2	322 CC	322 CC SUP	322 CE
	322 EE	322 EE AS	
01.021.2	522 CC	522 CC SUP	522 CE
	522 EE	522 EE AS	

codice kit code of kit	utilizzabile per suitable for		
00.038.2	321 EED	321 EFP	321 CCD
	321 CFP		
00.041.2	521 EED	521 EFP	521 CCD
	521 CFP		
01.019.2	322 EED	322 EFP	322 CCD
	322 CFP		
01.022.2	522 EED	522 EFP	522 CCD
	522 CFP		
00.050.2	321 ME AS		
01.035.2	322 ME AS		
00.051.2	521 ME AS		
01.036.2	522 ME AS		
00.108.2	5213C CC	5213A CC	5213P CC
	5213C EE	5213A EE	5213P EE
	5213C EE AS	5213A EE AS	5213P EE AS
01.061.2	5223C CC	5223A CC	5223P CC
	5223C EE	5223A EE	5223P EE
	5223C EE AS	5223A EE AS	5223P EE AS

# bobine e connettori 22 mm

22 mm coils and connectors



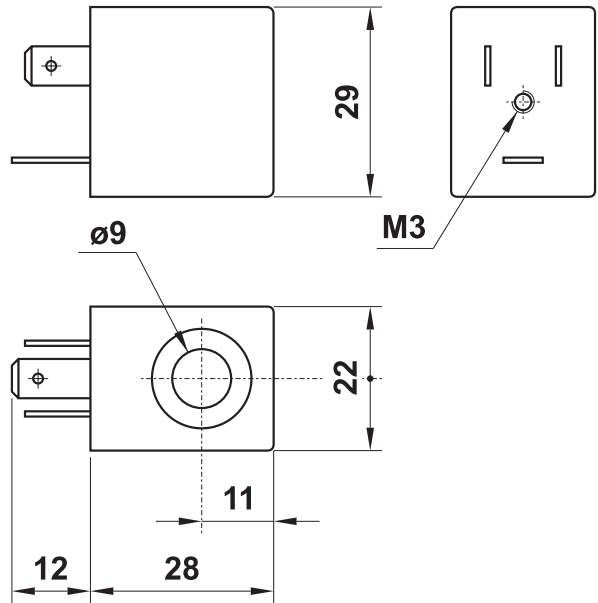
22 mm



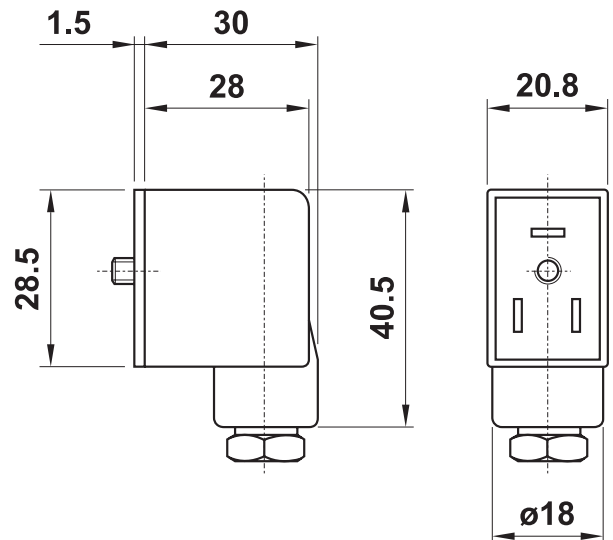
temperatura max di esercizio	<b>+50°C</b>	<i>max working temperature</i>
inserimento	<b>ED 100%</b>	<i>duty cycle</i>
protezione con connettore correttamente montato	<b>IP 65</b>	<i>protection with connector correctly mounted</i>
tolleranza di tensione	<b>±10%</b>	<i>tension tolerance</i>

- a richiesta basso assorbimento 1.5W  
*low consumption (1.5W) on request*

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
<b>00.167.0</b>	12V DC	3W	
<b>00.028.0</b>	24V DC	3W	
<b>00.029.0</b>	24V 50/60Hz	5VA	7.5VA
<b>00.030.0</b>	110V 50/60Hz	5VA	7.5VA
<b>00.031.0</b>	220V 50/60Hz	5VA	7.5VA



codice <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
<b>00.197.0</b>	nero <i>black</i>	PG09	normale <i>standard</i>
<b>00.344.0</b>	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
<b>00.345.0</b>	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
<b>00.346.0</b>	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
<b>00.347.0</b>	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
<b>00.394.0</b>	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
<b>00.395.0</b>	trasparente <i>transparent</i>	PG09	con LED 230V e VDR <i>with LED 230V and VDR</i>



**PEZZI DI RICAMBIO - spare parts**  
canotto per elettropilota  
*armature for solenoid pilot*

**NC : 00.088.0**  
**NA (NO) : 00.306.0**