valvole 16 mm ad azion. elettropneumatico

solenoid actuated valves - 16 mm

- Valvole a spola 5/2 con attacchi filettati M5 o G1/8"
  5/2 spool valves with M5 or G1/8" threaded ports
- Entrata e uscite: M5 o G1/8"; scarichi: M5
  Air supply and exit ports: M5 or G1/8"; exhaust ports: M5
- Elettropilota 15 mm basso assorbimento (2W) a norma DIN 43650, forma C
  15 mm low consumption solenoid pilot (2W), compliant to norm DIN 43650, C form
- Azionatore manuale monostabile sull'elettropilota
  Non-detented manual override on the solenoid pilot
- Sottobasi modulari (pag. 258-259) e sottobasi a posti fissi (pag. 187)
  Multiple sub-bases (page 258-259) and manifolds (page 187)

1

I prodotti di seguito indicati sono venduti con elettropilota/i montato/i (per i dati tecnici vedi pag. 157).
The following listed products are sold with mounted solenoid pilot(s); for technical data refer to page 157.

Materiali
Corpo: alluminio 11S
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

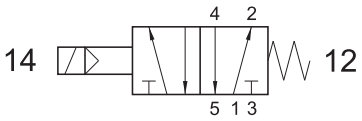
Materials
Body: aluminium 11S
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

Diametro nominale *Nominal orifice*	4 mm		
Portata nominale a 6 bar, Δp 1 bar *Nominal flow rate at 6 bar, Δp 1 bar*	M5: 320 Nl/min G1/8": 350 Nl/min		
Temperatura di esercizio *Temperature range*	-5 ... +60°C		
Pressione di esercizio *Working pressure*	al. interna monost. *[monost. internal air supply]*	al. interna bist. *[bi-stable internal air supply]*	alim. separata *[separate air supply]*
	2.5 ... 10 bar 0.25 ... 1 MPa	2.5 ... 10 bar 0.25 ... 1 MPa	-0.9 ... 10 bar -0.09 ... 1 MPa
Pressione di azionamento (per alimentazione separata) *Actuating pressure (for separate air supply)*		monostabile *[mono-stable]*	bistabile *[bi-stable]*
		2.5 ... 10 bar 0.25 ... 1 MPa	2.5 ... 10 bar 0.25 ... 1 MPa
Fluido *Fluid*	Aria filtrata 5μ con o senza lubrificazione *5μ filtered, lubricated or non lubricated air*		

455 ME xx

5/2 M5 comando elettrico - ritorno a molla

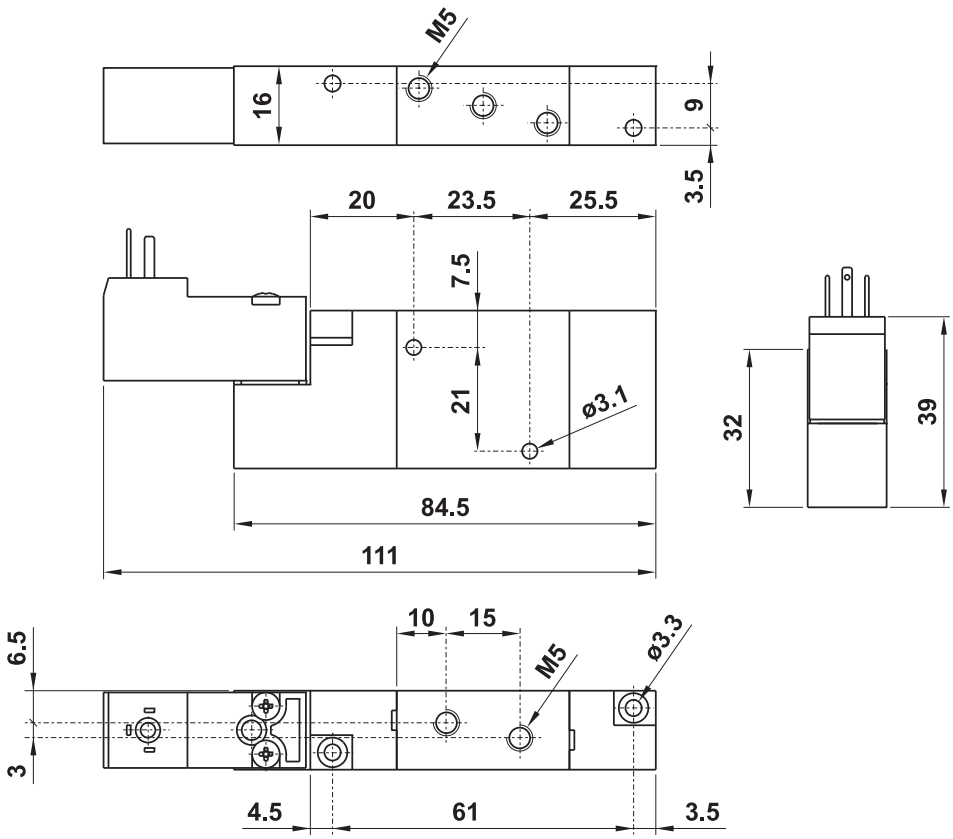
5/2 M5 solenoid pilot - spring return



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**



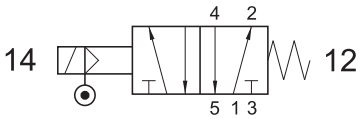
455 ME AS xx

5/2 M5 comando elettrico alimentazione separata - ritorno a molla

5/2 M5 solenoid pilot with separate air supply - spring return

L'alimentazione separata funziona solo se la valvola è montata su sottobase **modulare**

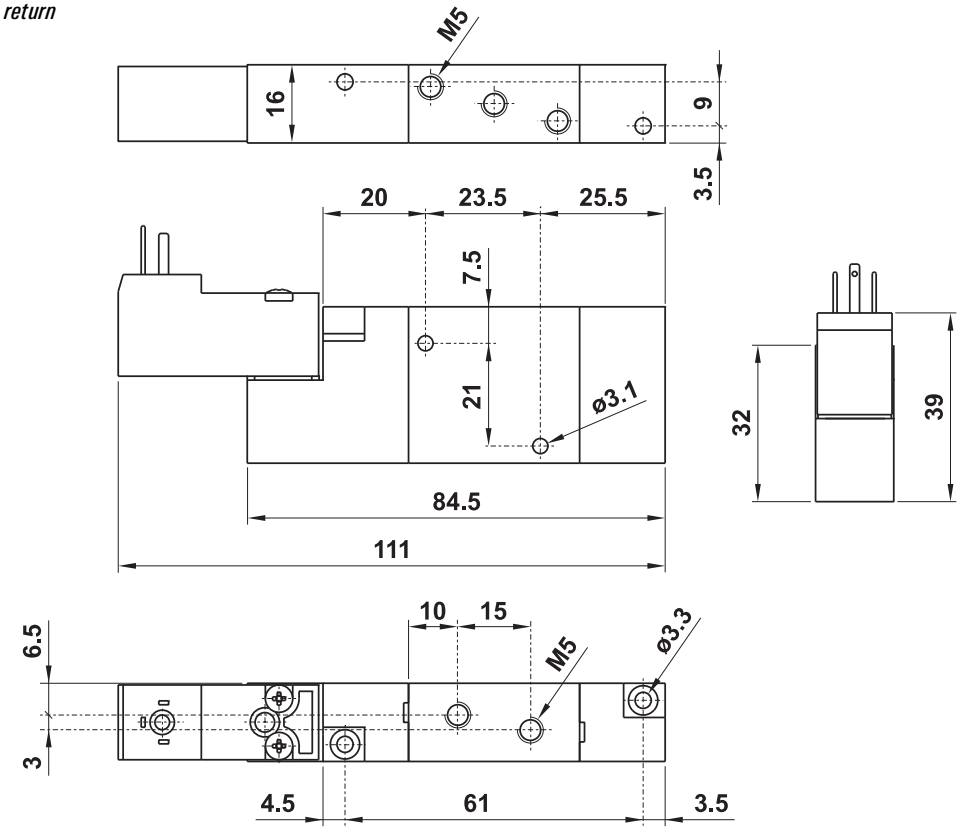
*The separate air supply works only if the valve is mounted on **modular** sub-base*



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

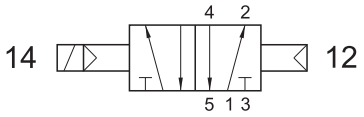
24V DC	**01**
24V 50/60Hz	**02**



455 CE xx

5/2 M5 comando elettrico - ritorno a comando pneumatico

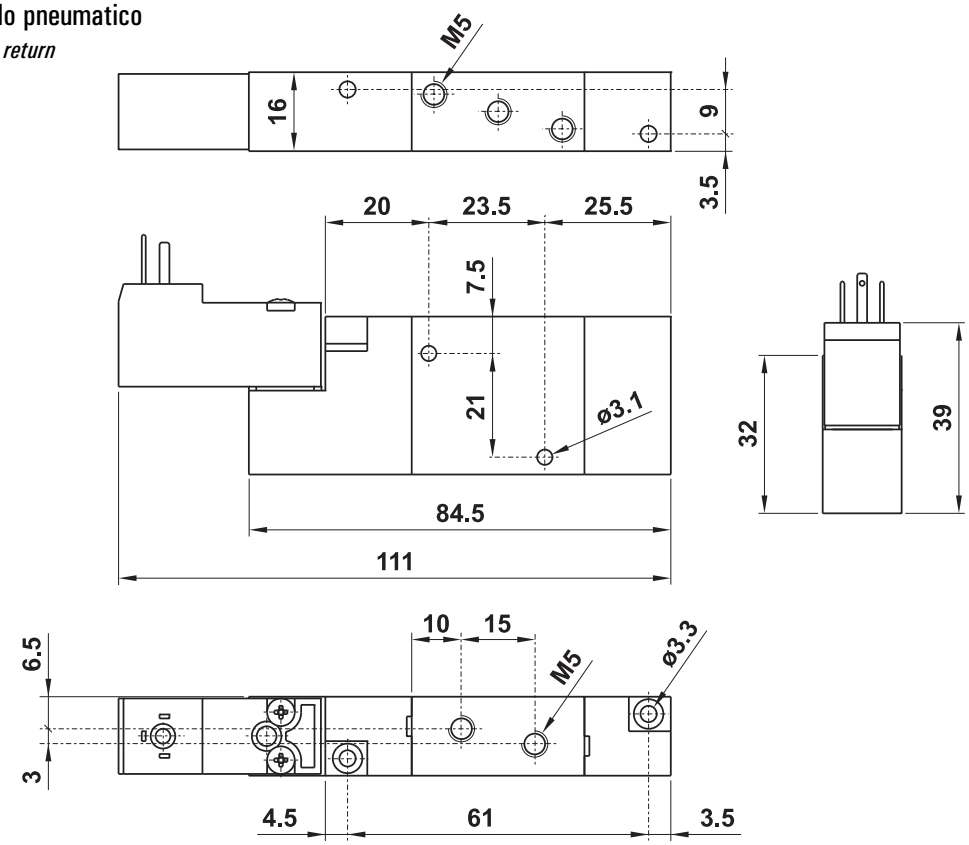
5/2 M5 solenoid pilot - separate pneumatically piloted return



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

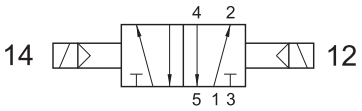
24V DC	**01**
24V 50/60Hz	**02**



455 EE xx

5/2 M5 doppio comando elettrico

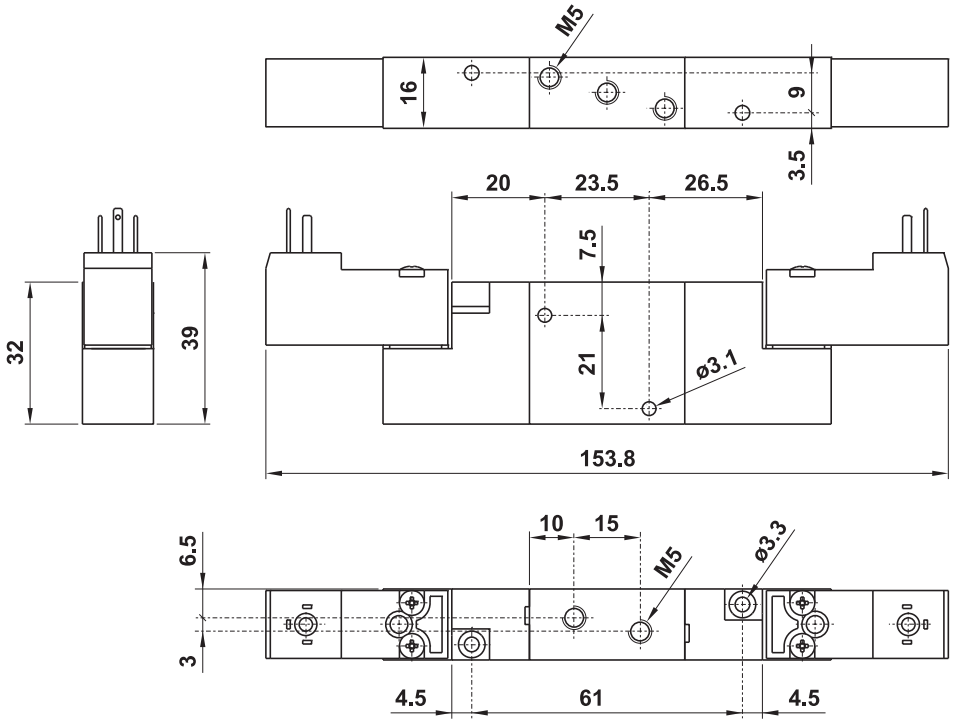
5/2 M5 double solenoid pilot



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**



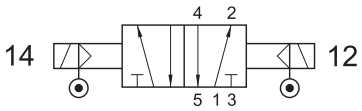
455 EE AS xx

5/2 M5 doppio comando elettrico alimentazione separata

5/2 M5 double solenoid pilot with separate air supply

L'alimentazione separata funziona solo se la valvola è montata su sottobase **modulare**

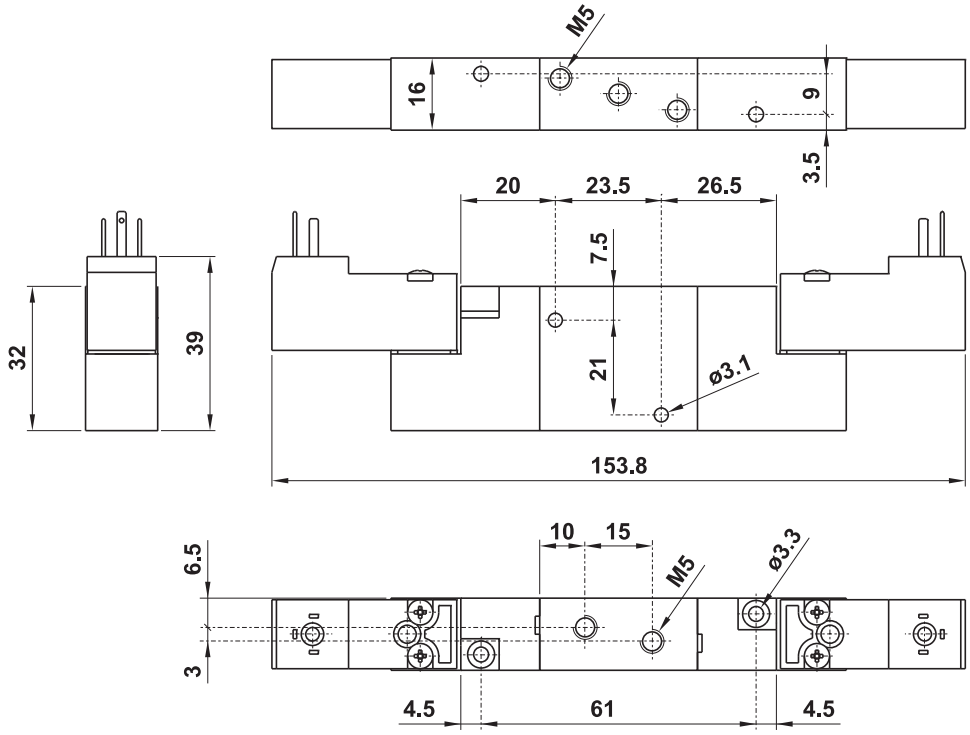
*The separate air supply works only if the valve is mounted on **modular** sub-base*



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

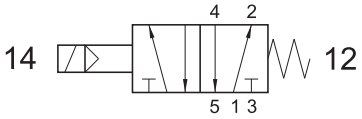
24V DC	**01**
24V 50/60Hz	**02**



451 ME xx

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

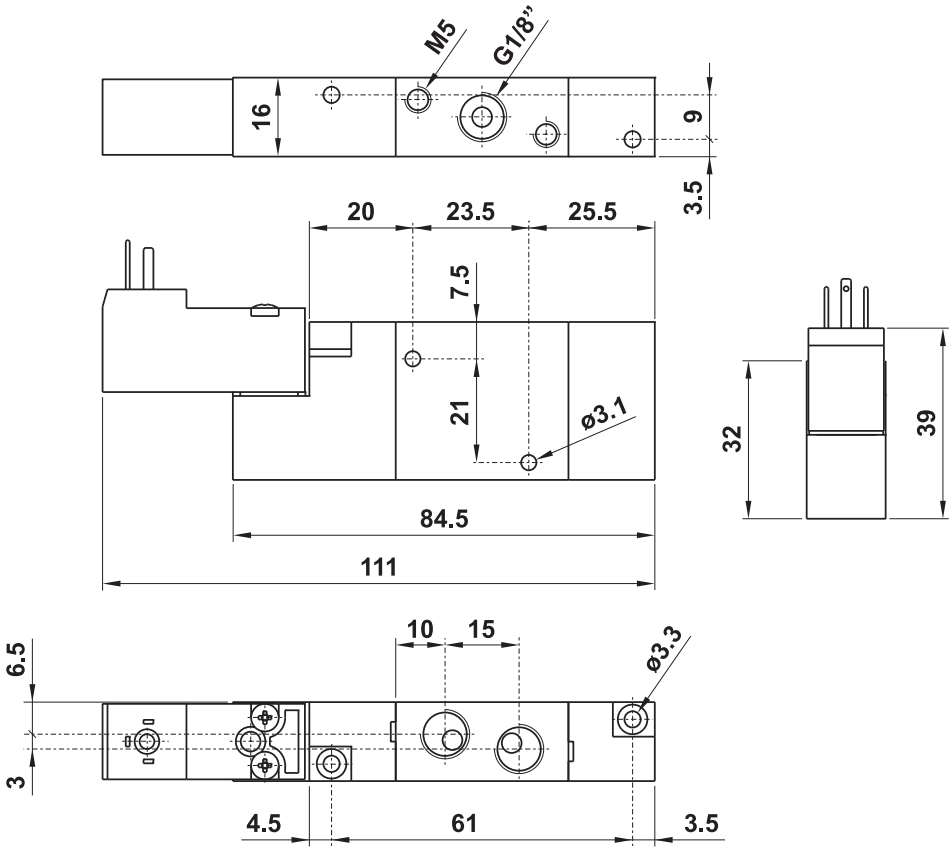
5/2 1/8" solenoid pilot - spring return



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**



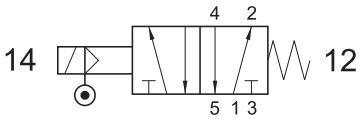
451 ME AS xx

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

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

L'alimentazione separata funziona solo se la valvola è montata su sottobase **modulare**

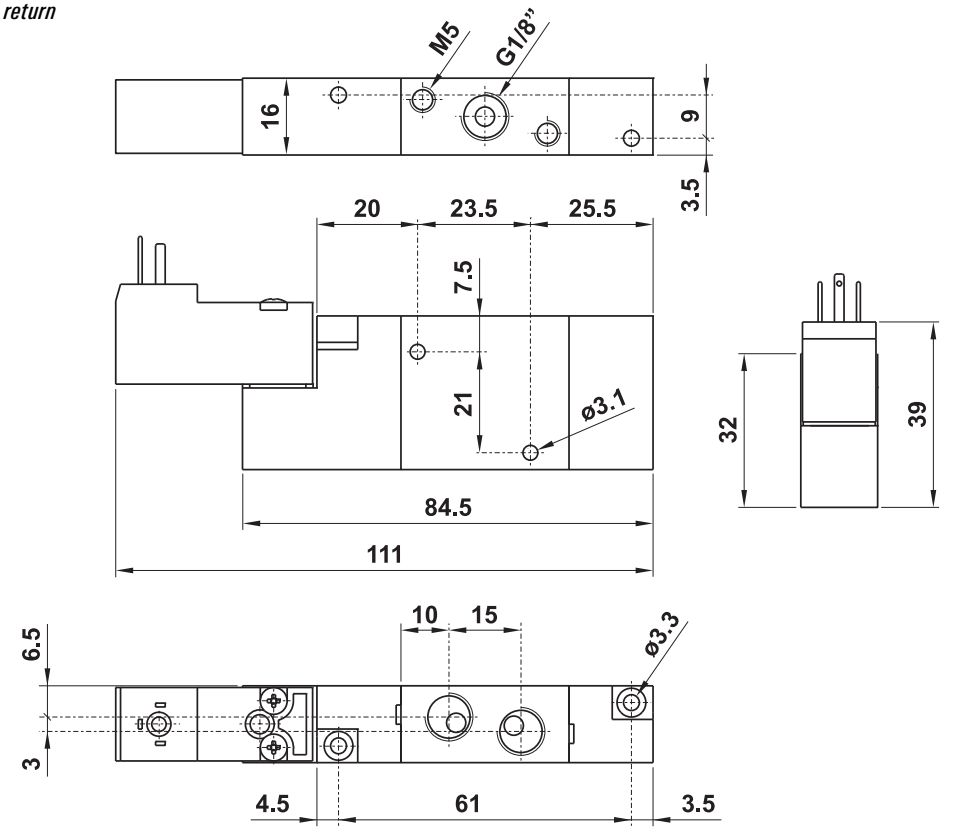
*The separate air supply works only if the valve is mounted on **modular** sub-base*



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

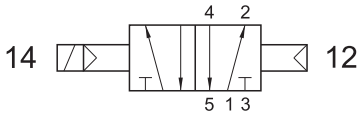
24V DC	**01**
24V 50/60Hz	**02**



451 CE xx

5/2 1/8" comando elettrico - ritorno a comando pneumatico

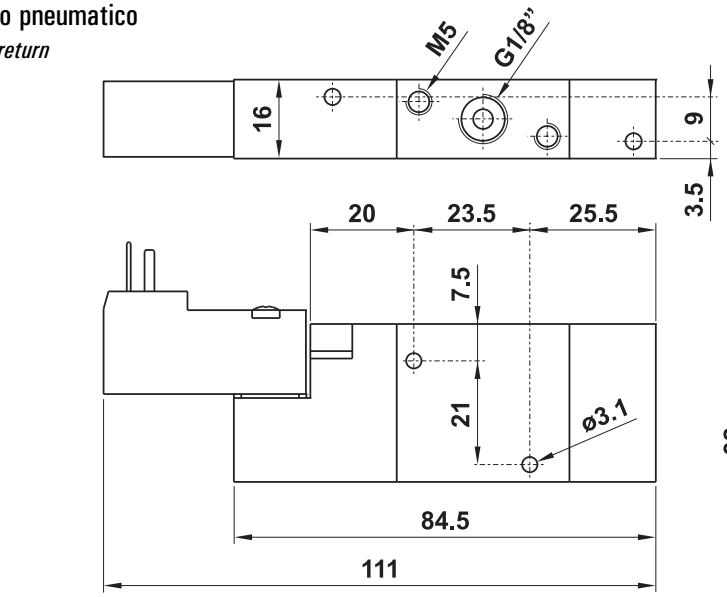
5/2 1/8" solenoid pilot - separate pneumatically piloted return

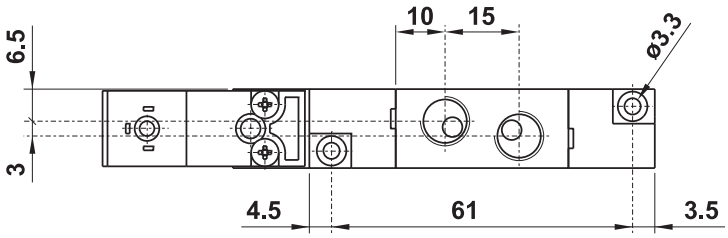


Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**

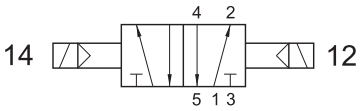




451 EE xx

5/2 1/8" doppio comando elettrico

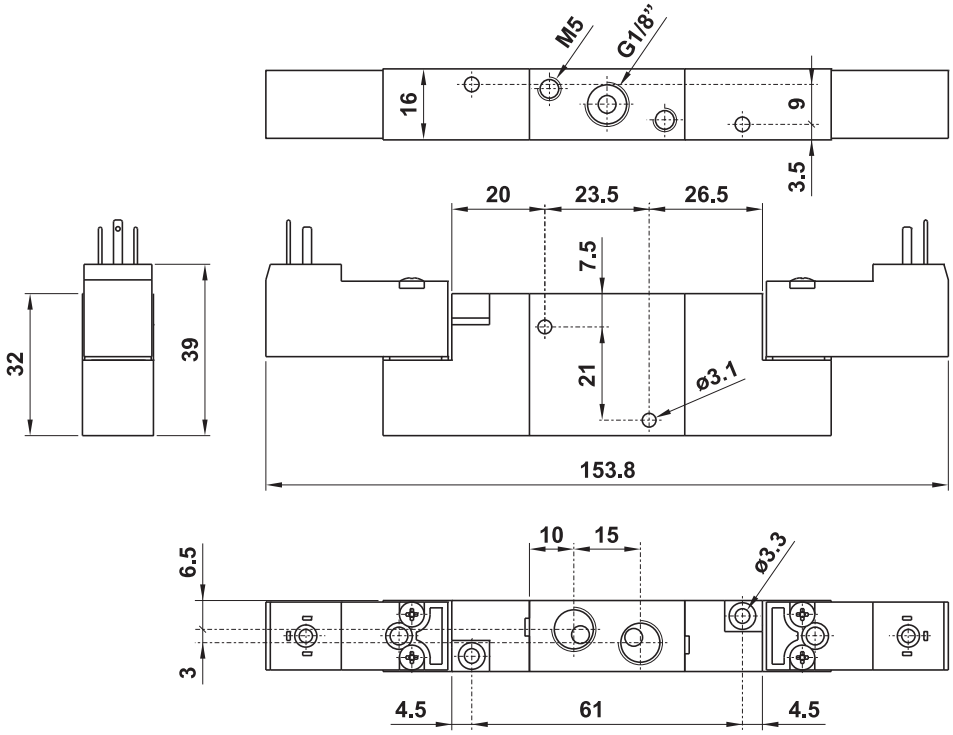
5/2 1/8" double solenoid pilot



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**



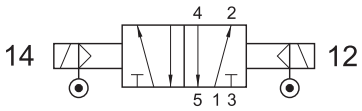
451 EE AS xx

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

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

L'alimentazione separata funziona solo se la valvola è montata su sottobase **modulare**

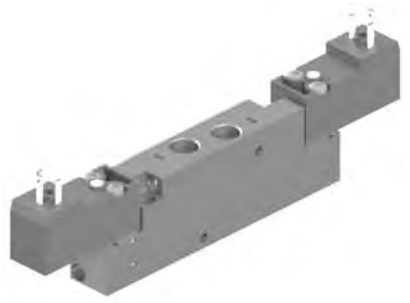
*The separate air supply works only if the valve is mounted on **modular** sub-base*

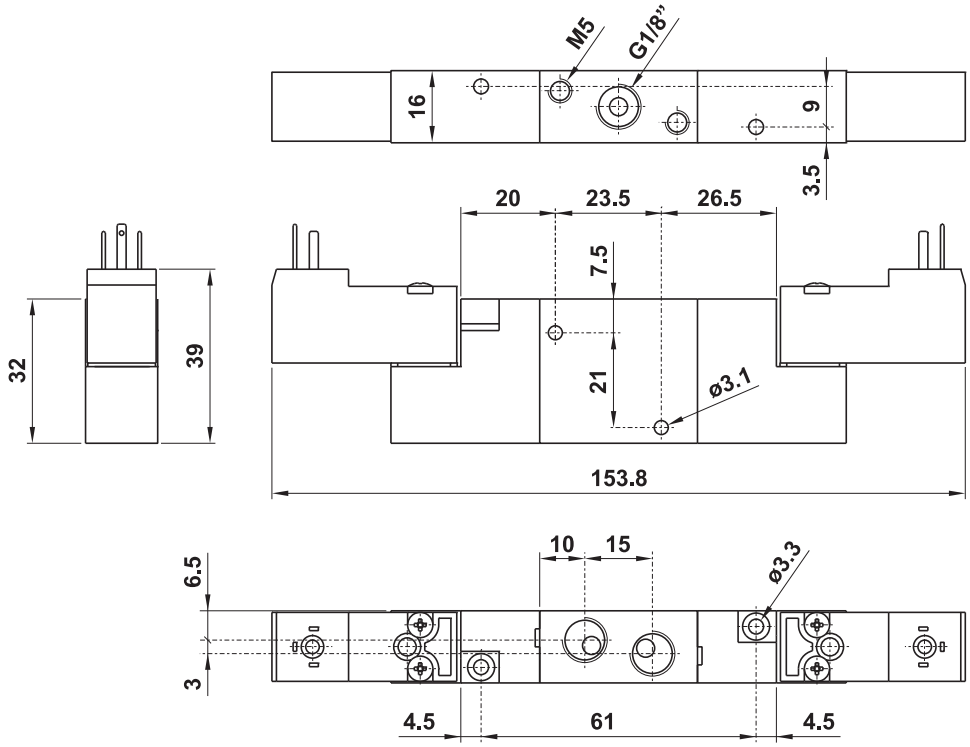


Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**

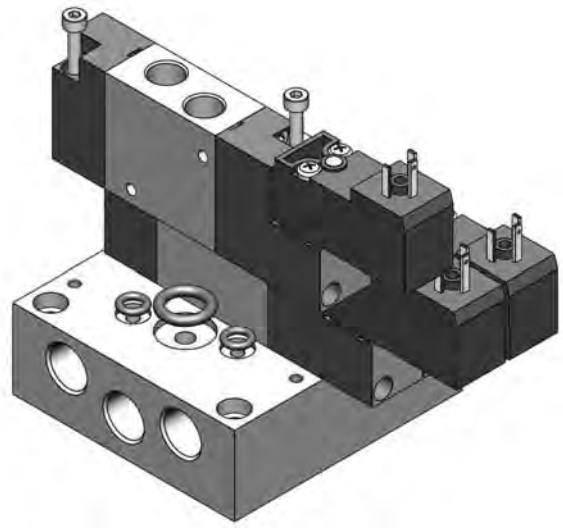


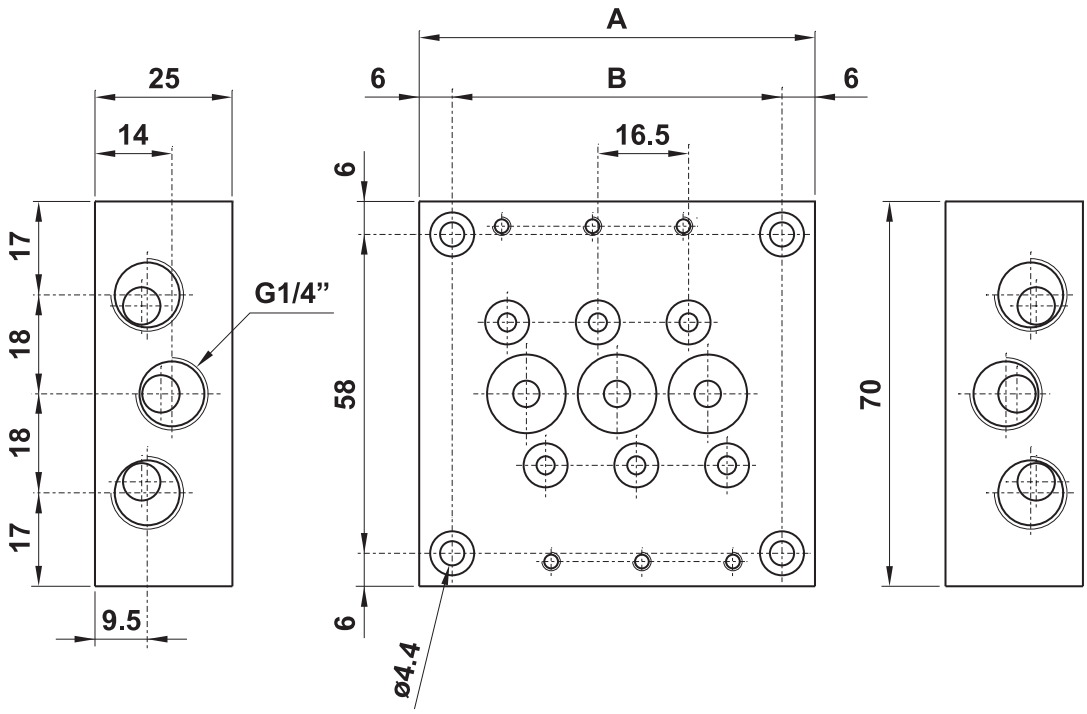


sottobasi per elettrovalvole 16 mm

manifolds for 16 mm solenoid valves

- Scarichi convogliati
  Common exhaust
- Materiale: alluminio anodizzato
  Material: aluminium (anodize treatment)
- Non utilizzabili per valvole alimentazione separata
  Not suitable for valves with separate air supply
- Sottobasi speciali a richiesta
  Special manifolds on request



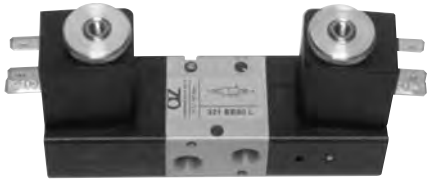


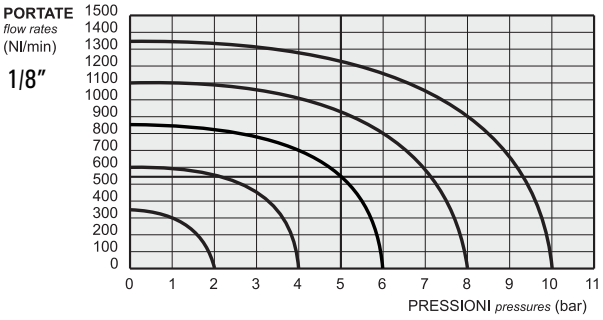
modello *model*	nr. posiz. *no. stations*	A	B
05.082.2	2	55.5	43.5
05.083.2	3	72	60
05.084.2	4	88.5	76.5
05.085.2	5	105	93
05.086.2	6	121.5	109.5
05.087.2	7	138	126
05.088.2	8	154.5	142.5
05.089.2	9	171	159
05.090.2	10	187.5	175.5
05.091.2	11	204	192
05.092.2	12	220.5	208.5

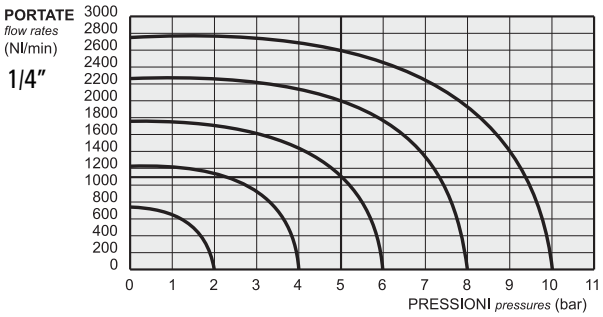
valvole ad azionamento elettropneumatico

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







Materiali

Corpo: alluminio 11S
Comando e fondello: tecnopolimero (*)
Molle: INOX
Guarnizioni: NBR
Spola: alluminio nichelato
Parti interne: ottone OT58

Materials

Body: aluminium 11S
End cups: technopolymer (*)
Springs: stainless steel
Seals: NBR
Spool: nickel plated aluminium
Internal parts: brass OT58

(*) Su richiesta e dietro supplemento di prezzo, le valvole sono fornibili con corpo, comando e fondello interamente in alluminio. Alcune valvole, come di seguito specificato, sono disponibili solo nella versione in alluminio. Le valvole ATEX sono solo in alluminio.
Le parti in tecnopolimero recano impresso il logo pneumatica

(*) On request and upon extra charge, the valves are available also with body and end caps entirely in aluminium. Some valves, as specified in the next pages, are available only in the aluminium version. ATEX valves are only in aluminium.
The parts in technopolymer are marked with the logo pneumatica

Tempi di risposta - ***response times***

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

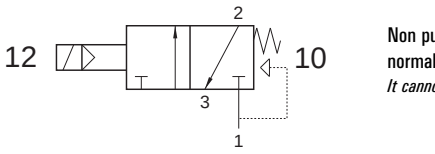
I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 209).
The following listed products are sold without coils, which are bought separately (refer to page 209).

Diametro nominale *Nominal orifice*	1/8": 5 mm 1/4": 7.5 mm		
Temperatura di esercizio *Temperature range*	max +60°C		
Pressione di esercizio *Working pressure*	al. interna monost. *[monost. internal air supply]* 2.5 ... 10 bar 0.25 ... 1 MPa	al. interna bist. *[bi-stable internal air supply]* 1 ... 10 bar 0.1 ... 1 MPa	alim. separata *[separate air supply]* -0.9 ... 10 bar -0.09 ... 1 MPa
Pressione di azionamento (per alimentazione separata) *Actuating pressure (for separate air supply)*	monostabile *[mono-stable]* 2.5 ... 10 bar 0.25 ... 1 MPa	bistabile *[bi-stable]* 1 ... 10 bar 0.1 ... 1 MPa	
Fluido *Fluid*	Aria filtrata 50μ con o senza lubrificazione *50μ filtered, lubricated or non lubricated air*		

321 ME

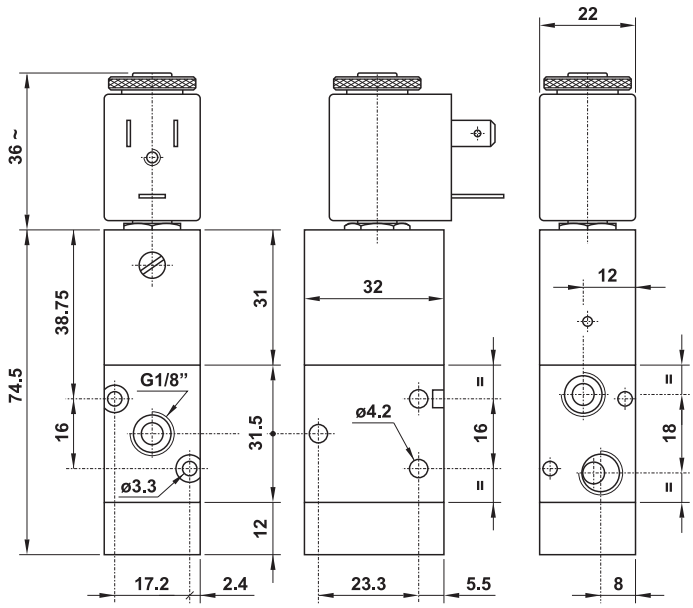
3/2 1/8" NC comando elettrico - ritorno a molla

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



Non può essere utilizzata come valvola normalmente aperta.

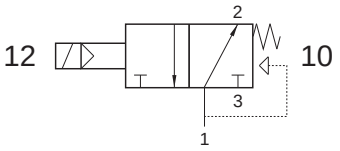
It cannot be used as normally open valve.



321 MEA

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

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

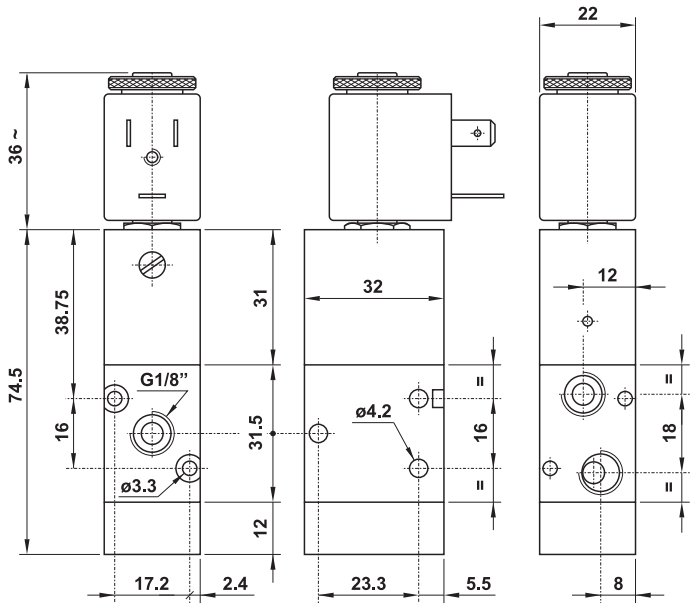


Non può essere utilizzata come valvola normalmente chiusa.

It cannot be used as normally closed valve.

SOLO VERSIONE IN ALLUMINIO

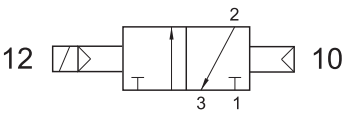
ONLY ALUMINIUM VERSION

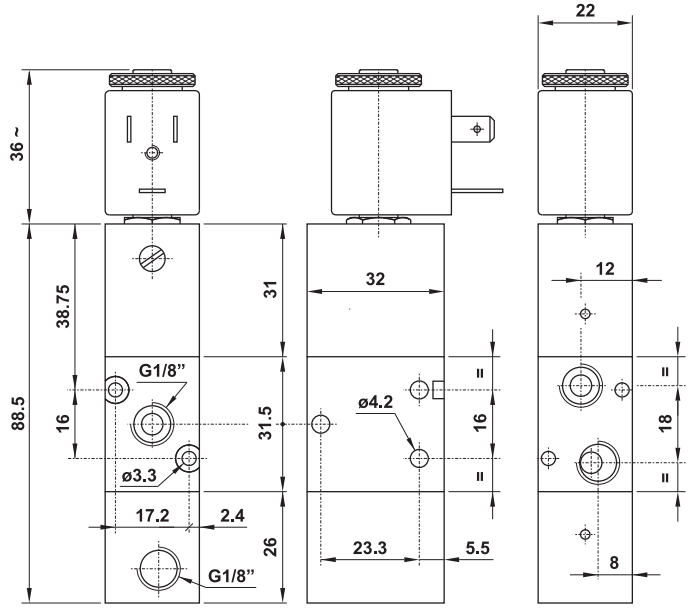


321 CE

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

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

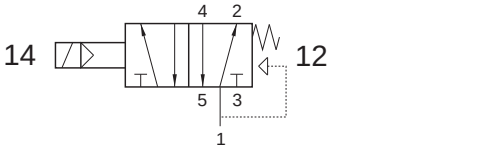


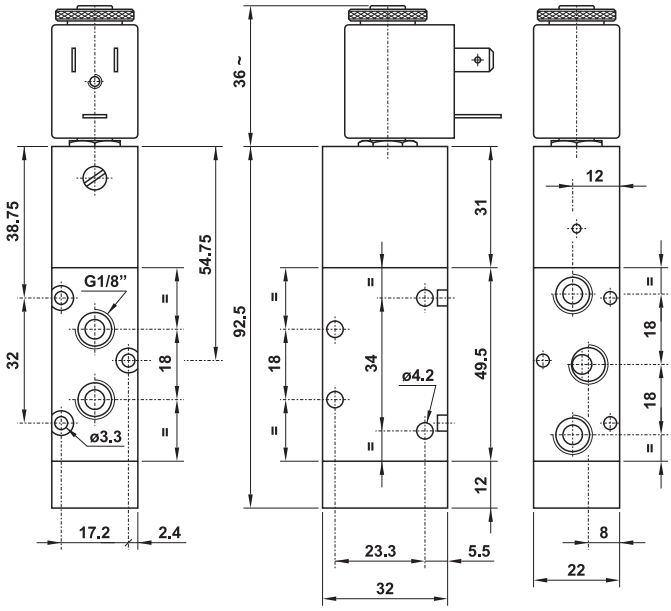


521 ME

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

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

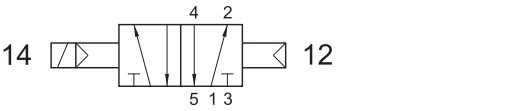


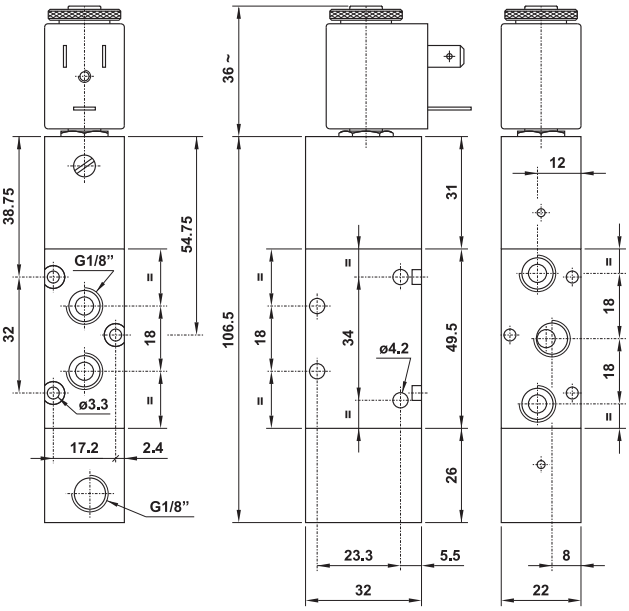


521 CE

5/2 1/8" comando elettrico - ritorno a comando pneumatico

5/2 1/8" solenoid pilot - separate pneumatically piloted return

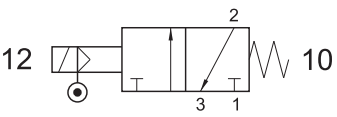


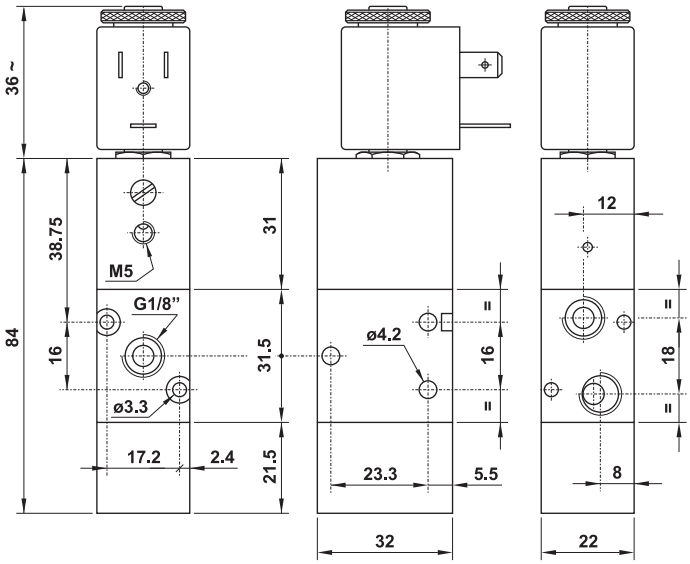


321 ME AS

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

3/2 1/8" solenoid pilot with separate air supply - spring return

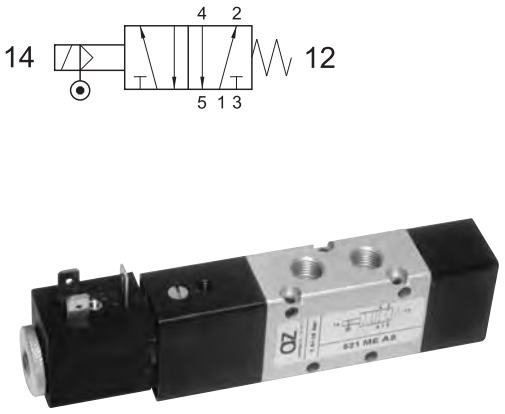


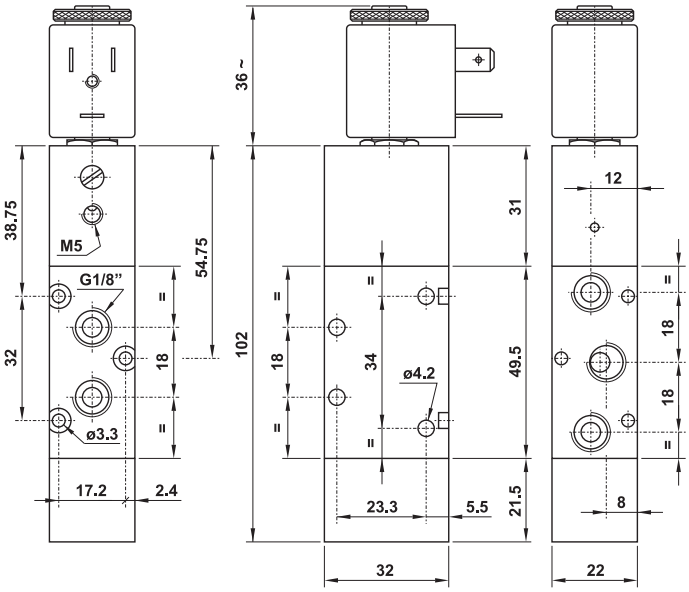


521 ME AS

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

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

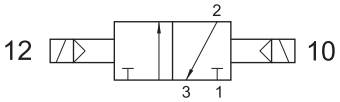




321 EE

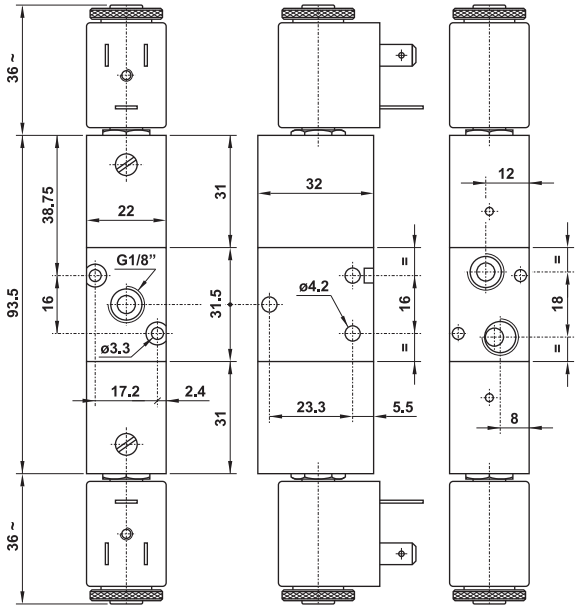
3/2 1/8" doppio comando elettrico

3/2 1/8" double solenoid pilot



SOLO VERSIONE IN ALLUMINIO

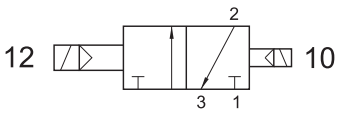
ONLY ALUMINIUM VERSION



321 EED

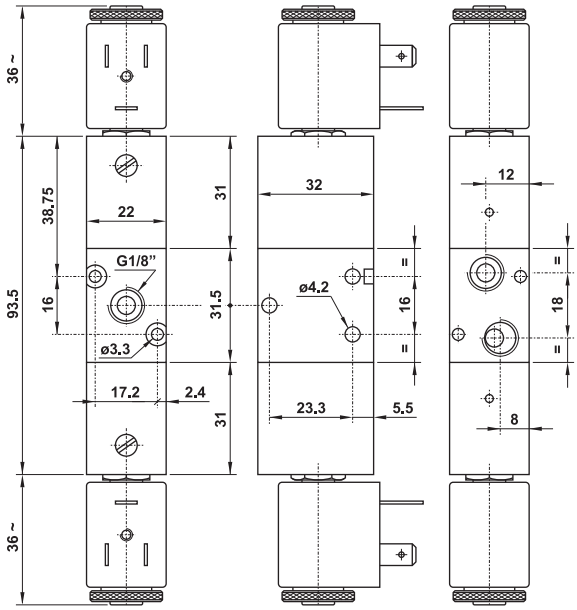
3/2 1/8" doppio comando elettrico - con differenziale

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



SOLO VERSIONE IN ALLUMINIO

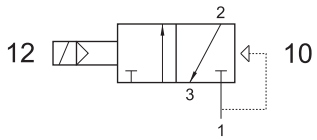
ONLY ALUMINIUM VERSION



321 EFP

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

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

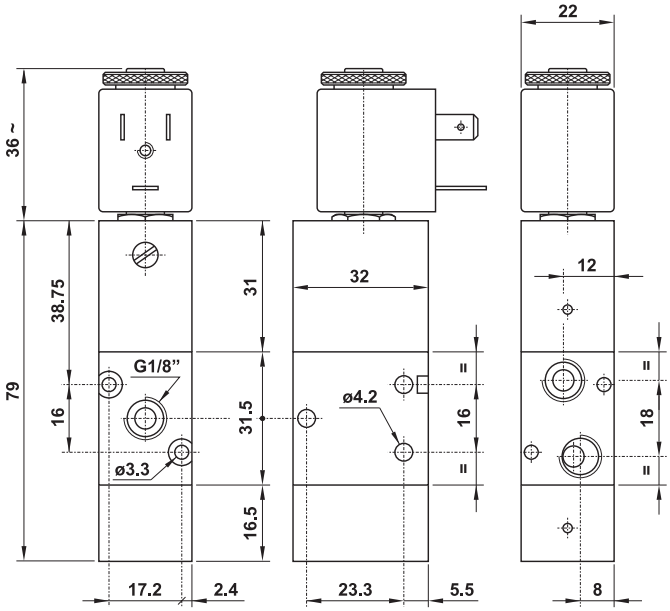


Non può essere utilizzata come valvola normalmente aperta.

It cannot be used as normally open valve.

SOLO VERSIONE IN ALLUMINIO

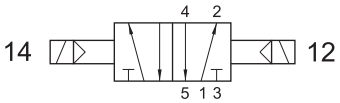
ONLY ALUMINIUM VERSION



521 EE

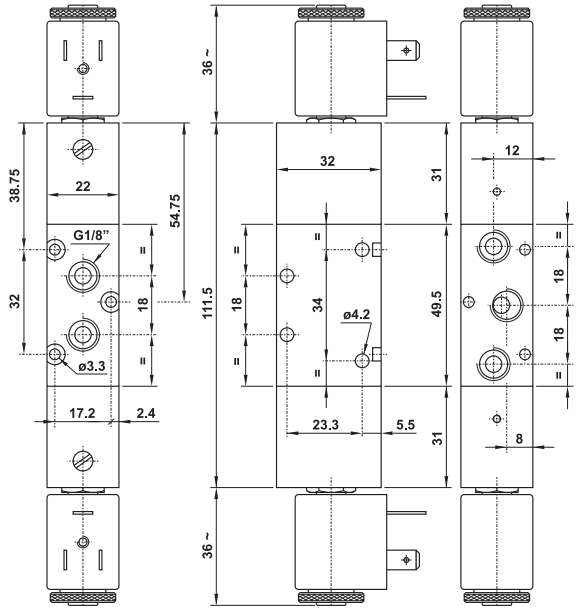
5/2 1/8" doppio comando elettrico

5/2 1/8" double solenoid pilot



SOLO VERSIONE IN ALLUMINIO

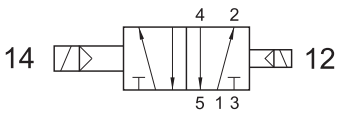
ONLY ALUMINIUM VERSION



521 EED

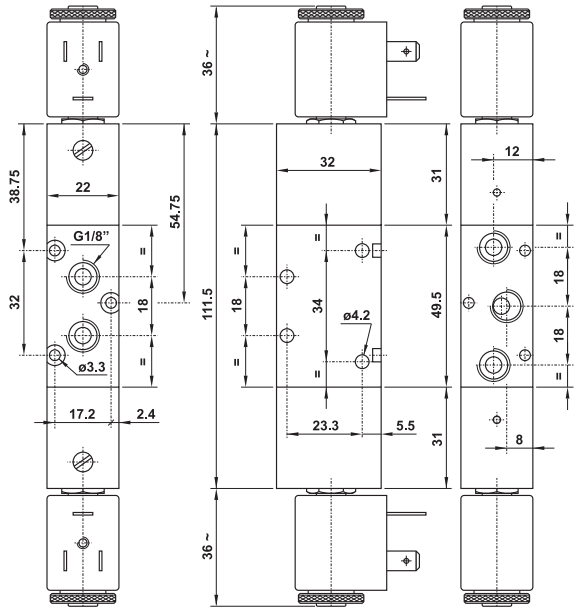
5/2 1/8" doppio comando elettrico - con differenziale

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



SOLO VERSIONE IN ALLUMINIO

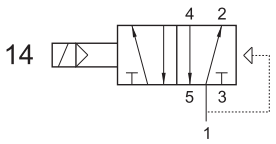
ONLY ALUMINIUM VERSION



521 EFP

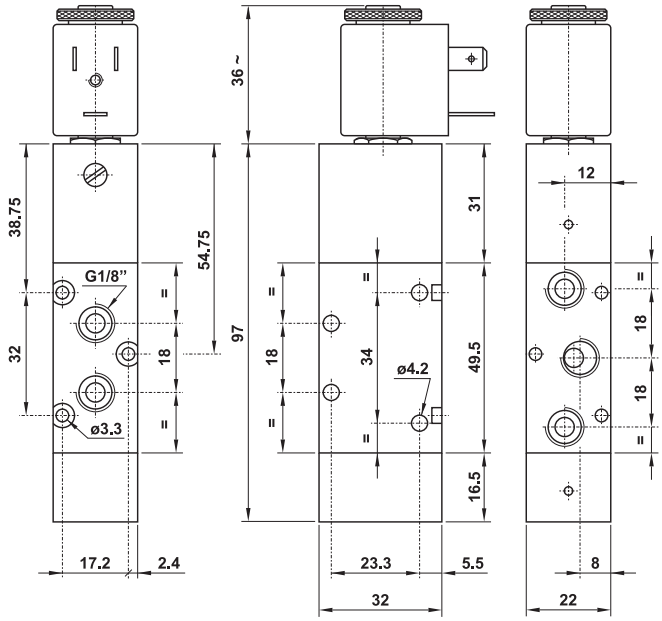
5/2 1/8" comando elettrico - ritorno a molla pneumatica

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



SOLO VERSIONE IN ALLUMINIO

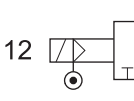
ONLY ALUMINIUM VERSION



321 EE AS

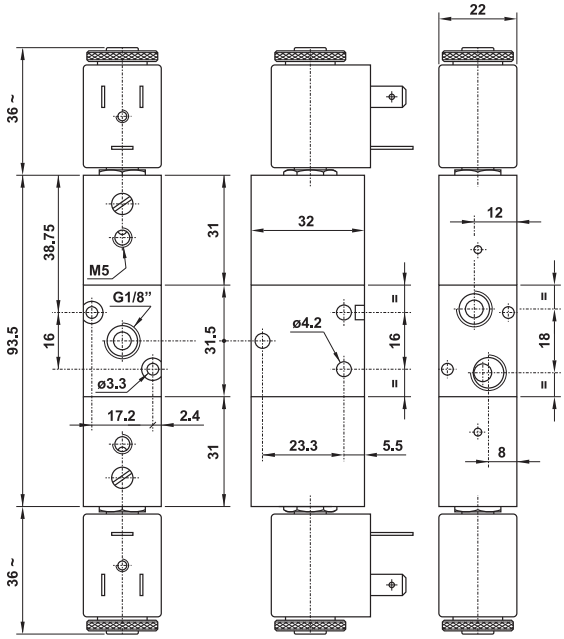
3/2 1/8" doppio comando elettrico alimentazione separata

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



SOLO VERSIONE IN ALLUMINIO

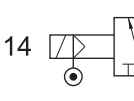
ONLY ALUMINIUM VERSION



521 EE AS

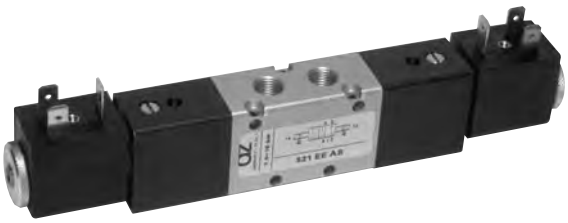
5/2 1/8" doppio comando elettrico alimentazione separata

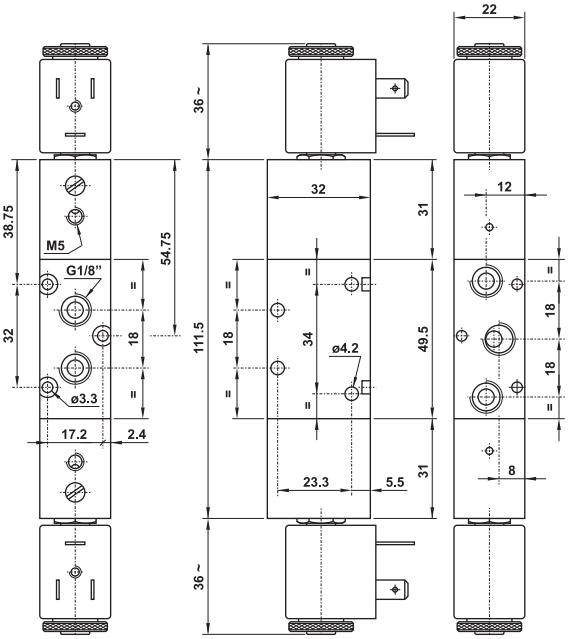
5/2 1/8" double solenoid pilot with separate air supply



SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

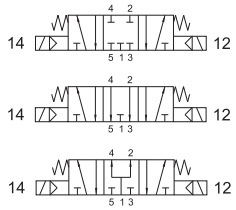




5213C EE
centri chiusi
closed centres

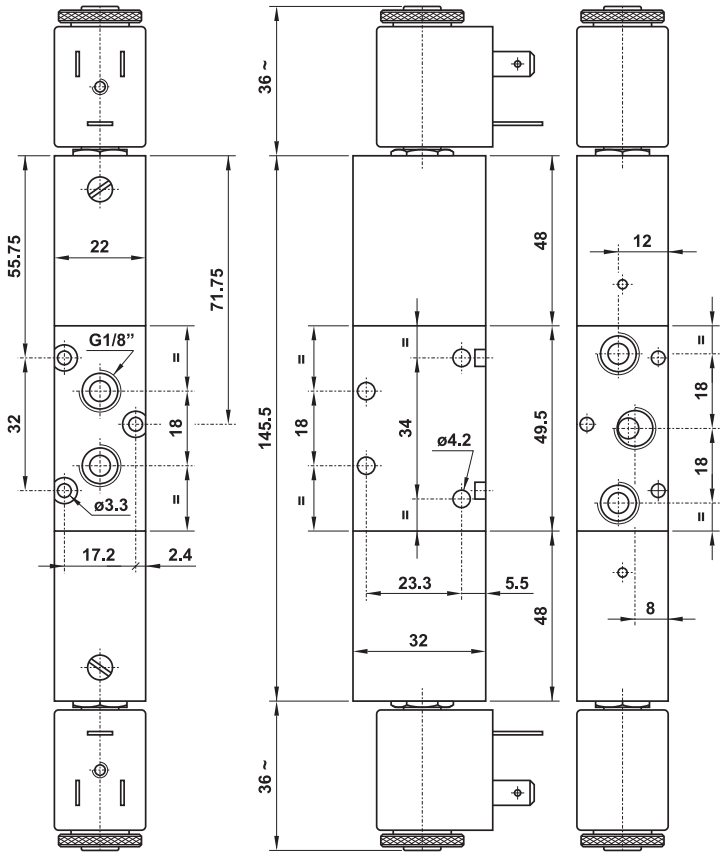
5213A EE
centri aperti
open centres

5213P EE
centri in pressione
pressurized centres



5/3 1/8" doppio comando elettrico
5/3 1/8" double solenoid pilot

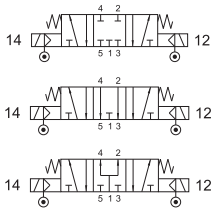
SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION



5213C EE AS
centri chiusi
closed centres

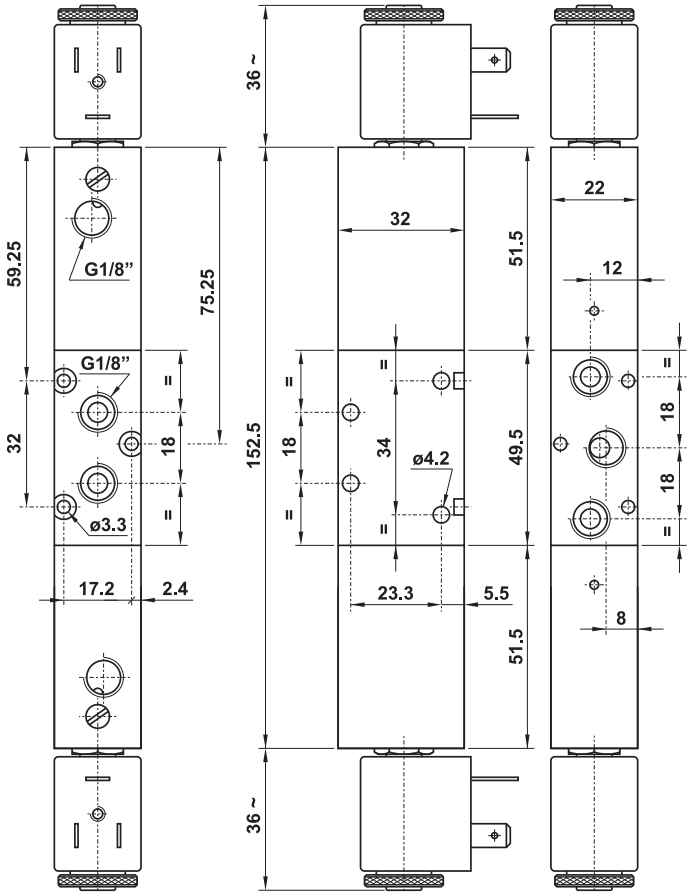
5213A EE AS
centri aperti
open centres

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

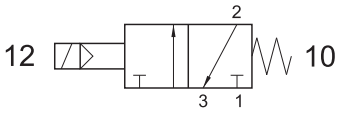
SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION



321 MRE

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

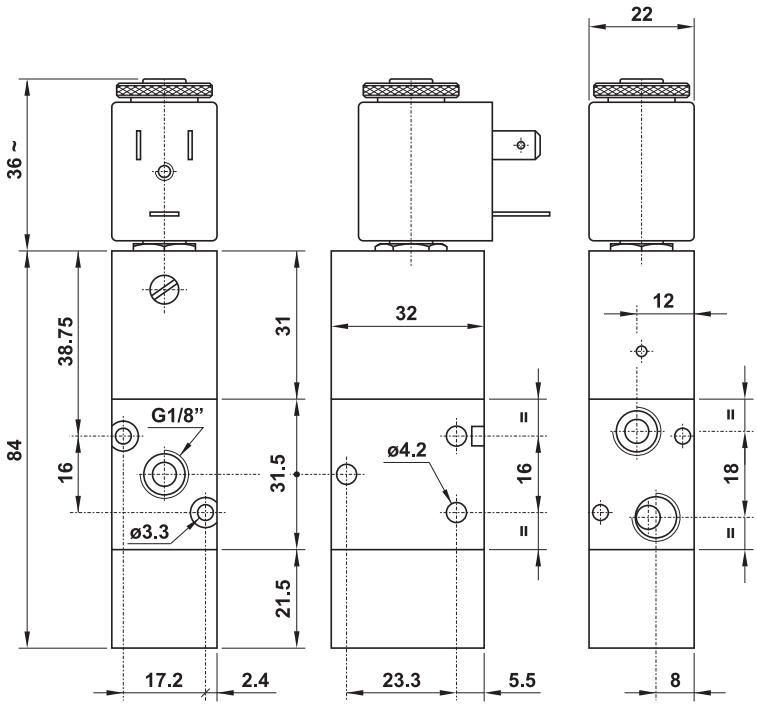
3/2 1/8" NC solenoid pilot - REINFORCED spring return



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

Pressione di esercizio: 2.5 ... 10 bar
Working pressure: 2.5 ... 10 bar
La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.
The reinforced spring allows a prompt return of the spool also in lack of air.

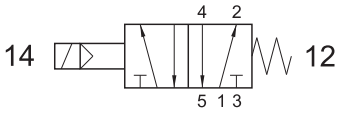
Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



521 MRE

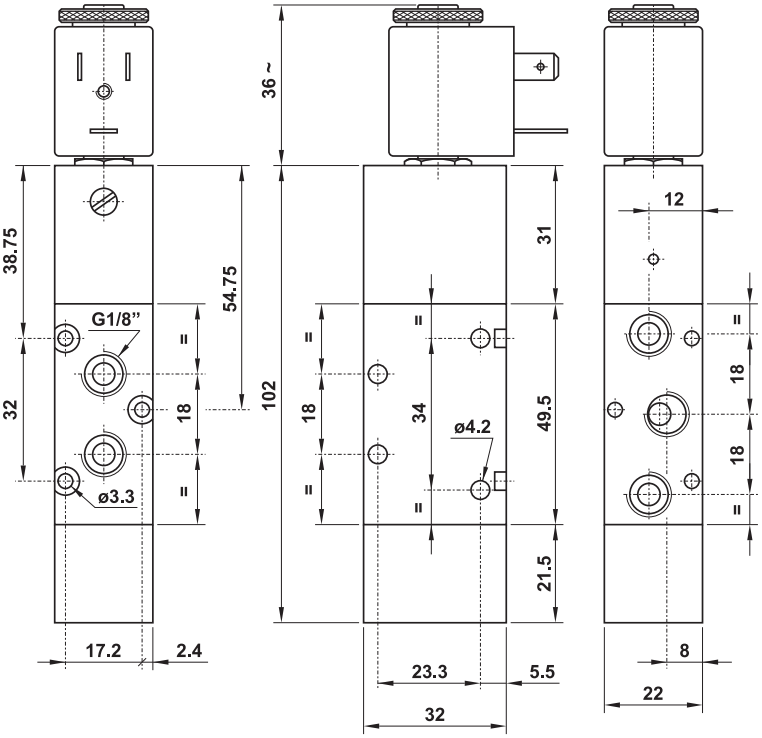
5/2 1/8" comando elettrico - ritorno a molla RINFORZATA

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



Pressione di esercizio: 2.5 ... 10 bar
Working pressure: 2.5 ... 10 bar
La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.
The reinforced spring allows a prompt return of the spool also in lack of air.

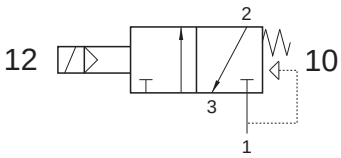
Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



321 ME90 S

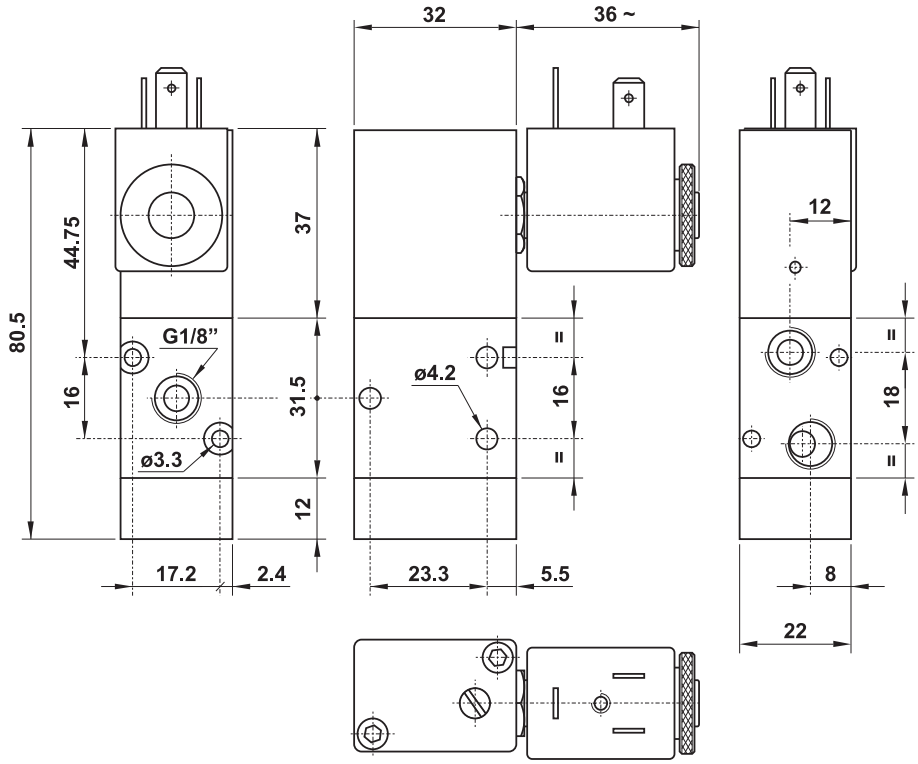
3/2 1/8" NC comando elettrico 90° sul lato stretto - ritorno a molla

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.

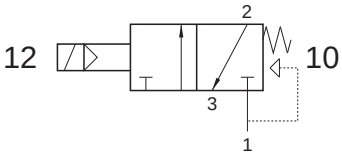
It cannot be used as normally open valve.



321 ME90 L

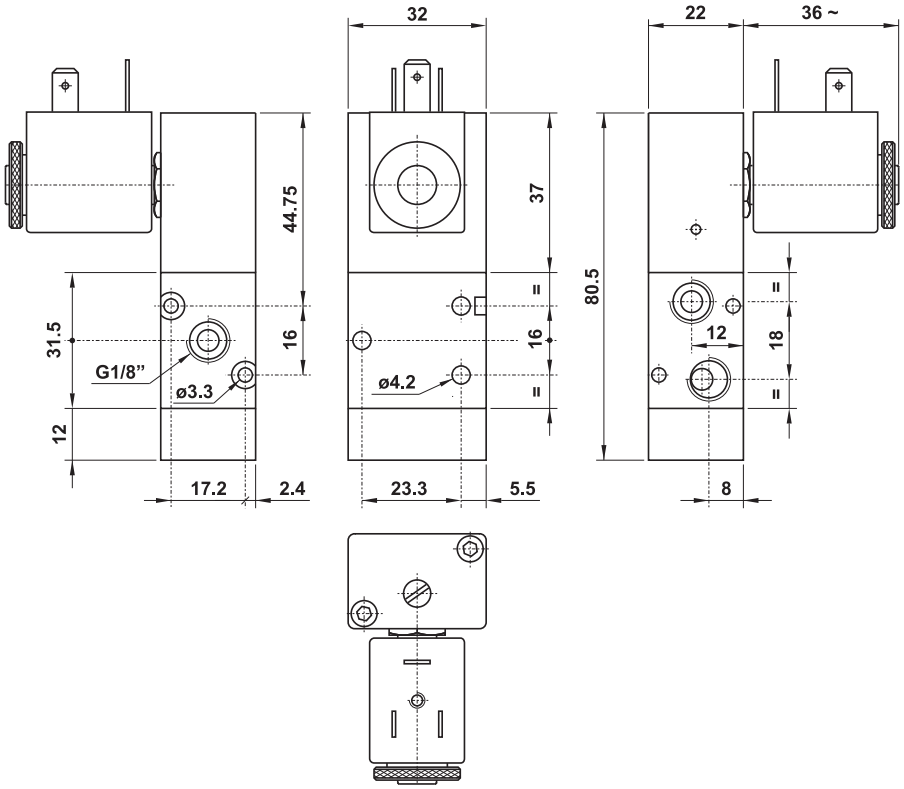
3/2 1/8" NC comando elettrico 90° sul lato largo - ritorno a molla

3/2 1/8" NC 90° solenoid pilot on the wide side - spring return



Non può essere utilizzata come valvola normalmente aperta.

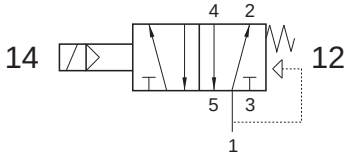
It cannot be used as normally open valve.

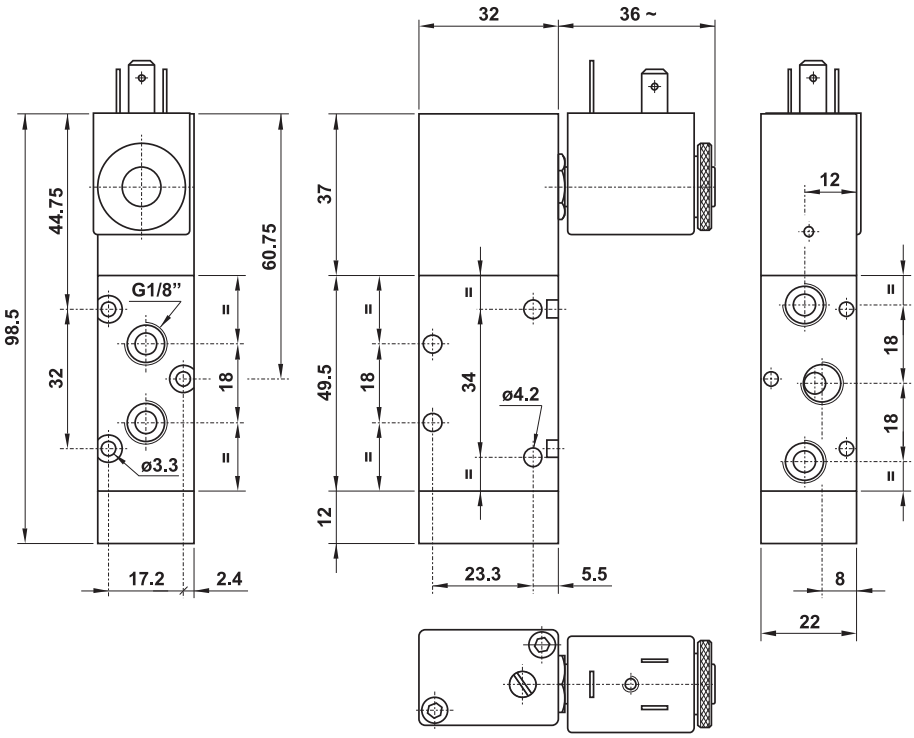


521 ME90 S

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

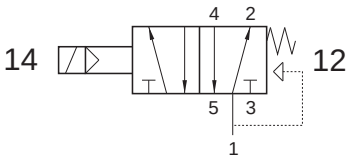


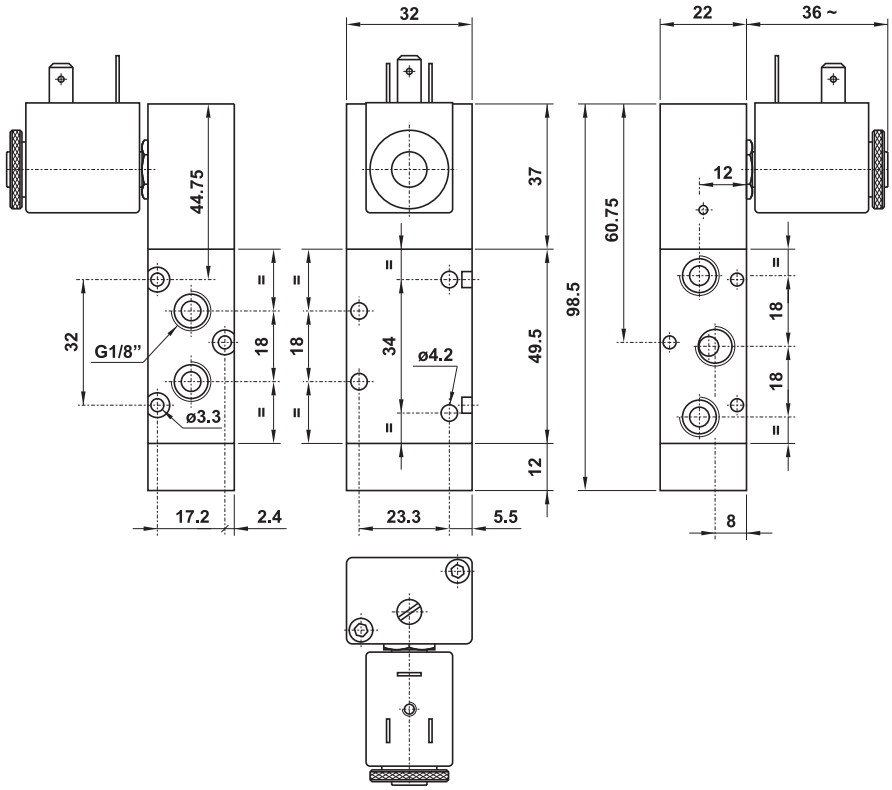


521 ME90 L

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

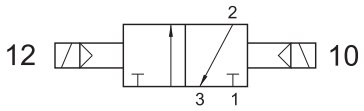
5/2 1/8" 90° solenoid pilot on the wide side - spring return



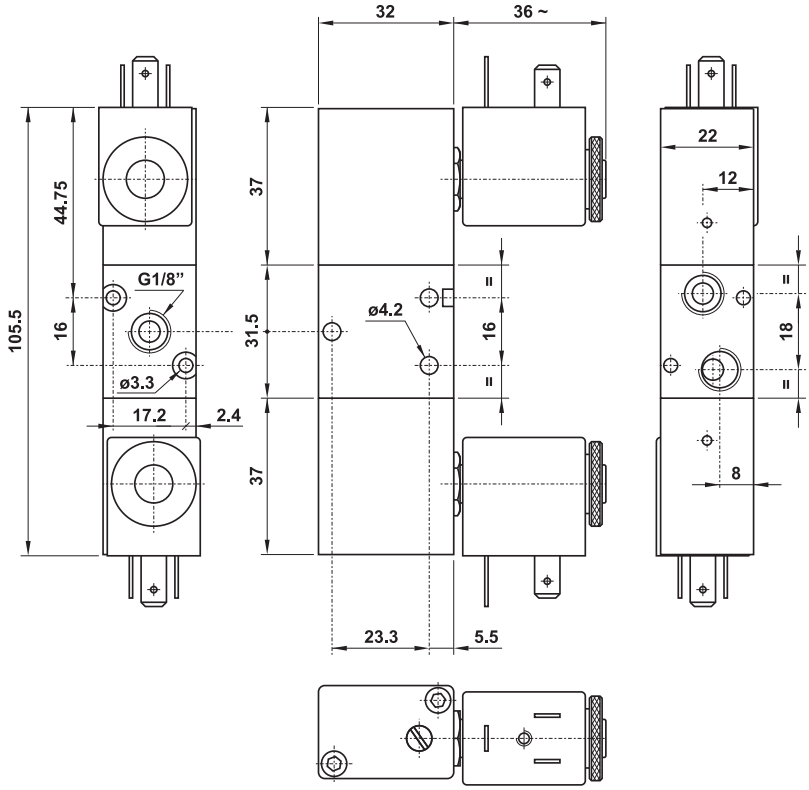


321 EE90 S

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

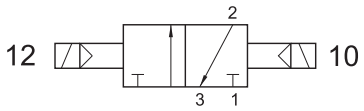


SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION

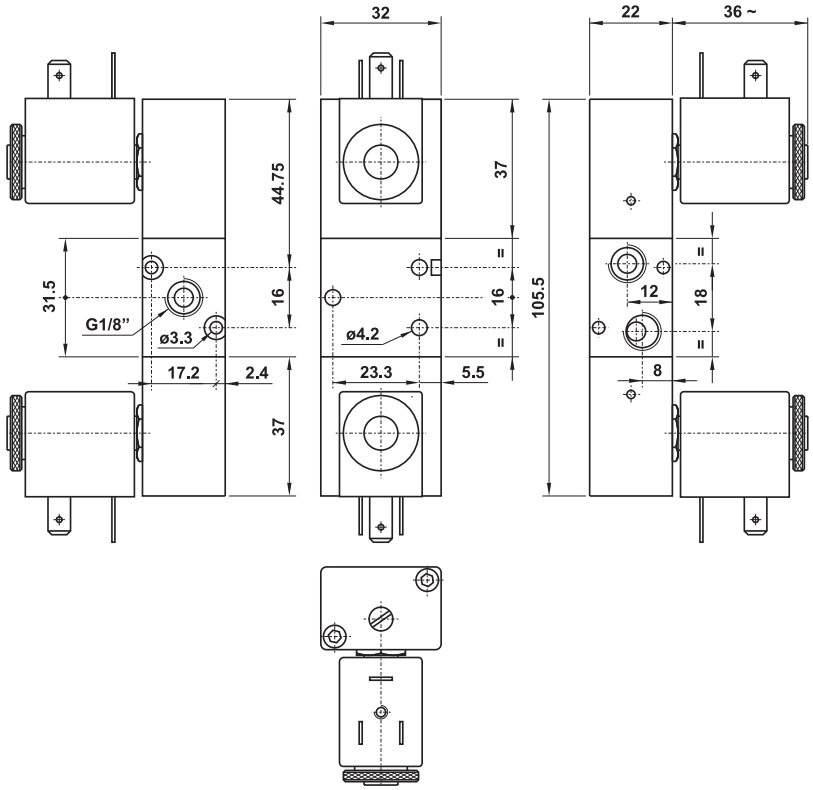


321 EE90 L

3/2 1/8" doppio comando elettrico 90° sul lato largo
3/2 1/8" 90° double solenoid pilot on the wide side



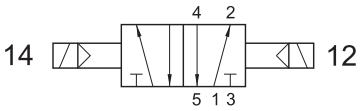
SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION



521 EE90 S

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

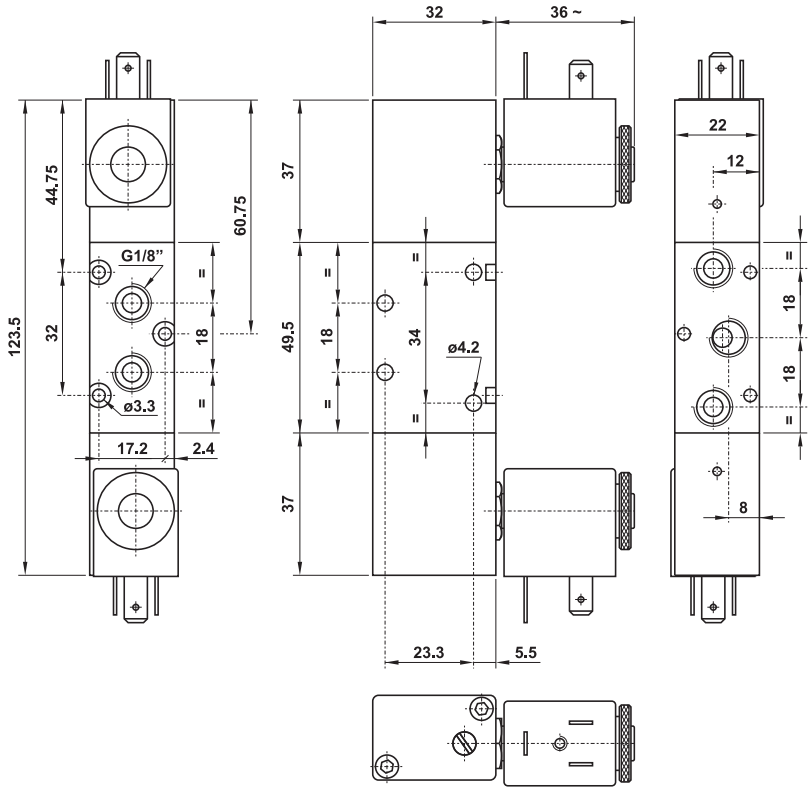
5/2 1/8" 90° double solenoid pilot on the narrow side for compact assembly



1

SOLO VERSIONE IN ALLUMINIO

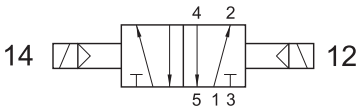
ONLY ALUMINIUM VERSION



521 EE90 L

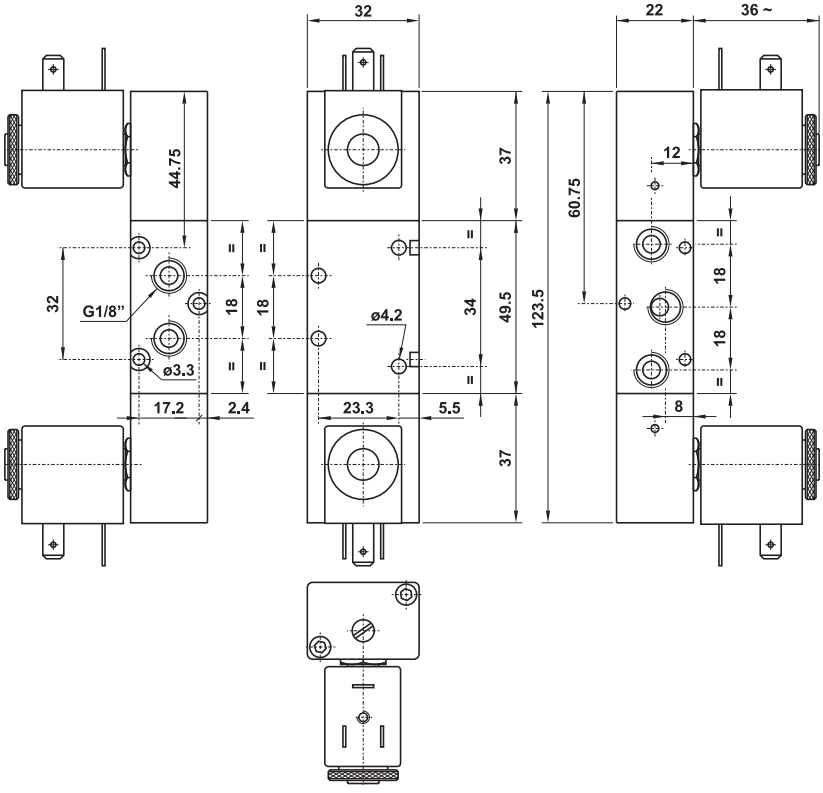
5/2 1/8" doppio comando elettrico 90° sul lato largo

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



SOLO VERSIONE IN ALLUMINIO

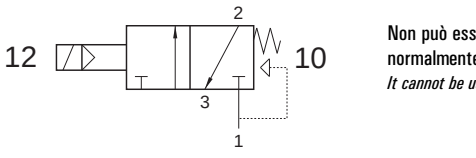
ONLY ALUMINIUM VERSION



322 ME

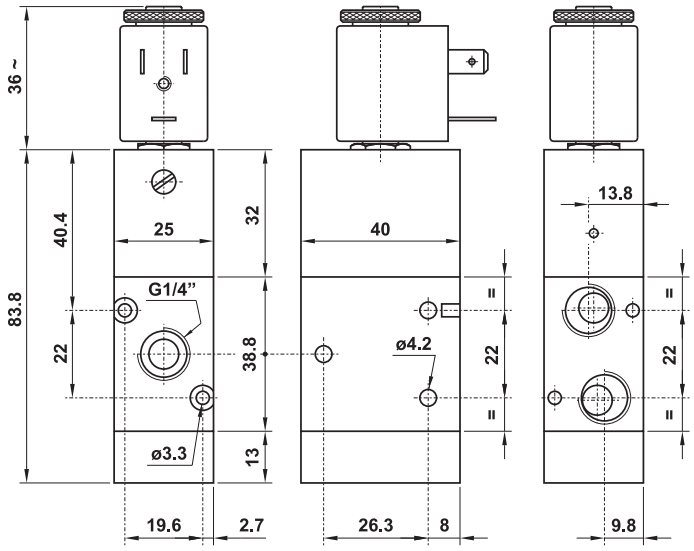
3/2 1/4" NC comando elettrico - ritorno a molla

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



Non può essere utilizzata come valvola normalmente aperta.

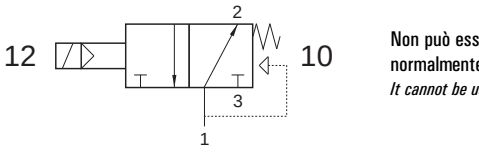
It cannot be used as normally open valve.



322 MEA

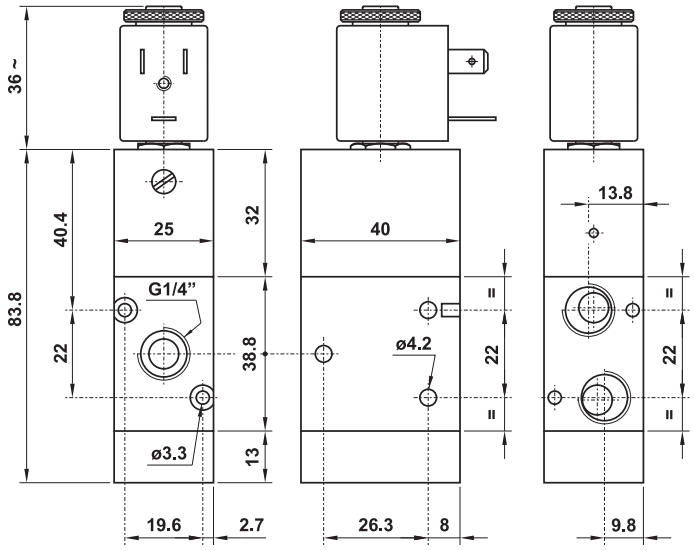
3/2 1/4" NA comando elettrico - ritorno a molla

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



Non può essere utilizzata come valvola normalmente chiusa.

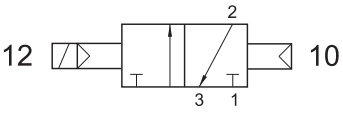
It cannot be used as normally closed valve.

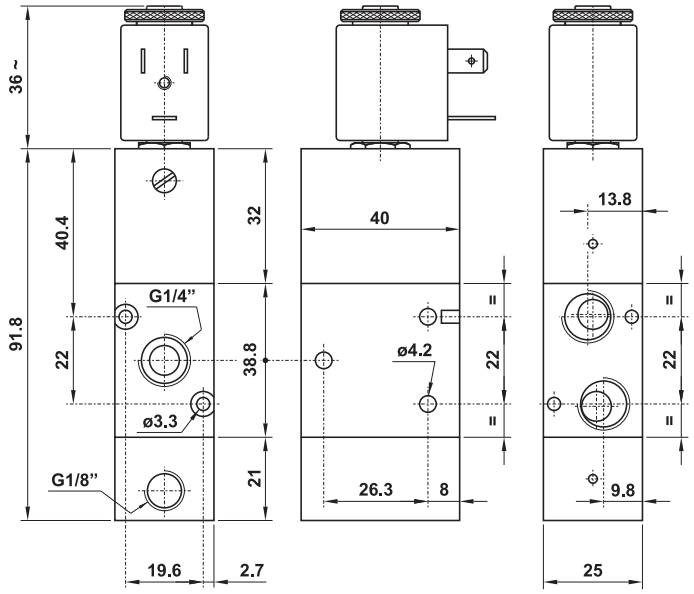


322 CE

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

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

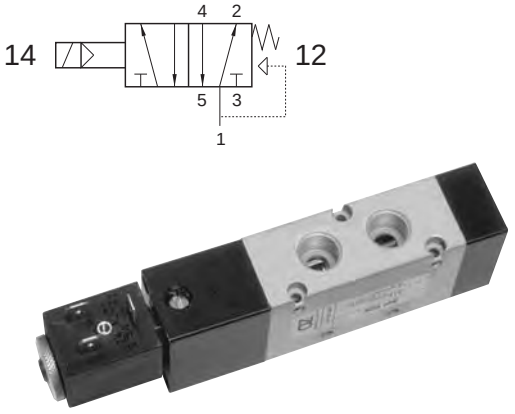


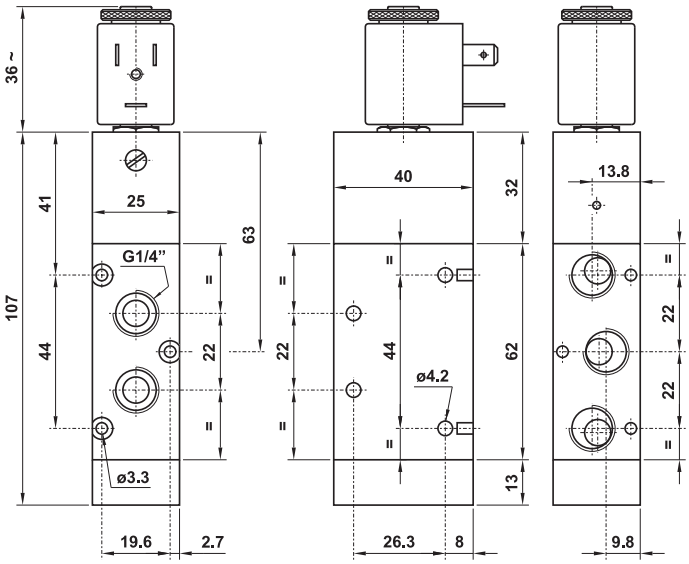


522 ME

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

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

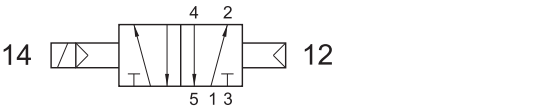


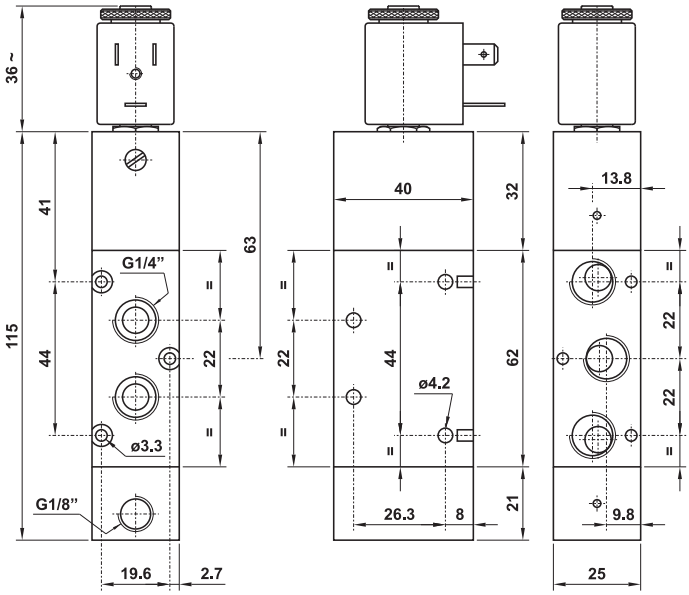


522 CE

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

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

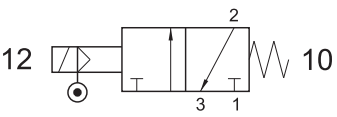


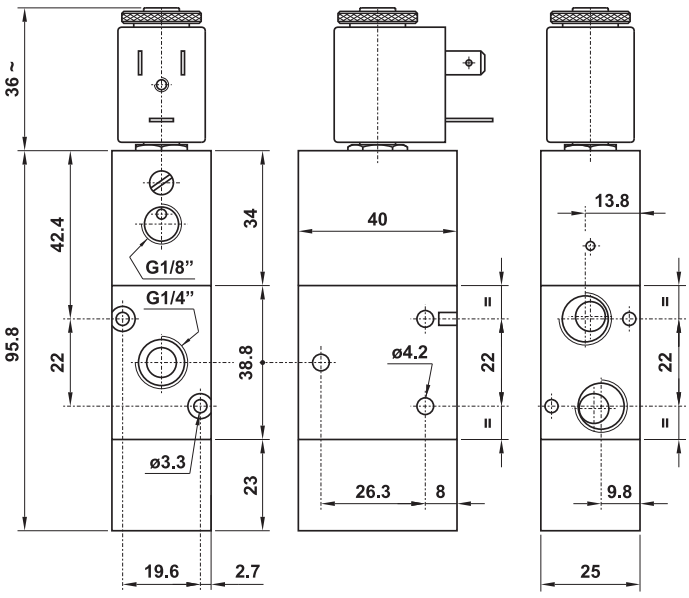


322 ME AS

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

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

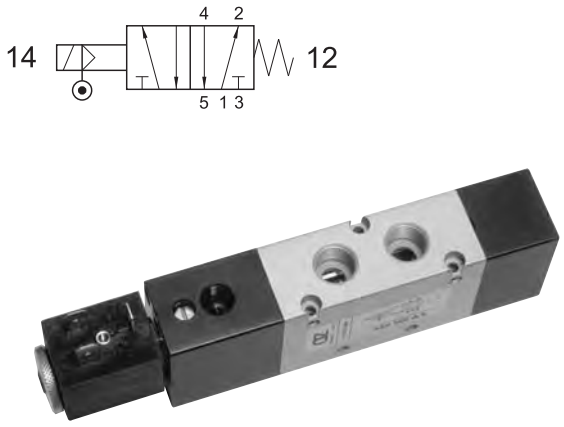


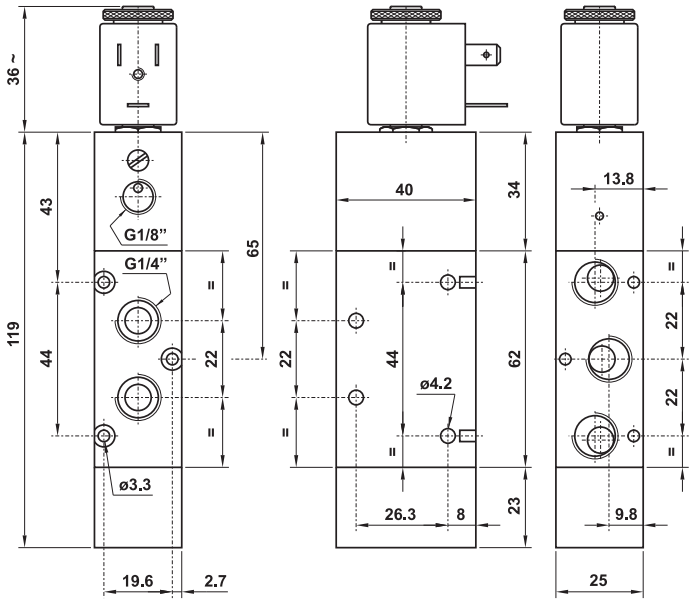


522 ME AS

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

5/2 1/4" solenoid pilot with separate air supply - spring return

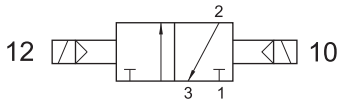




322 EE

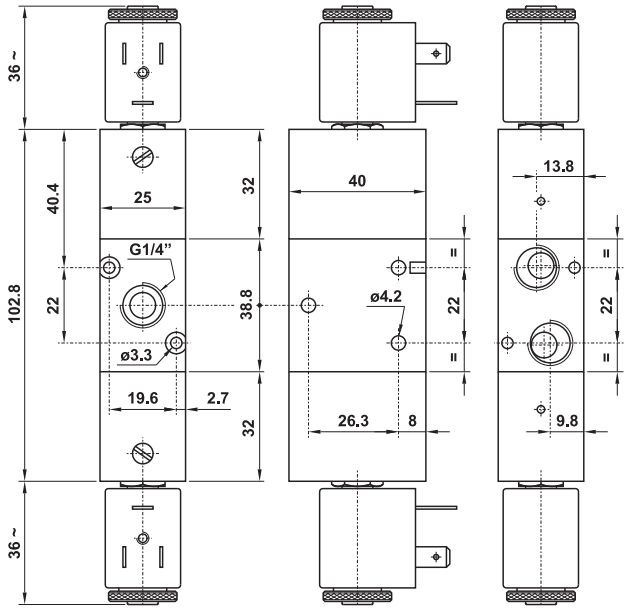
3/2 1/4" doppio comando elettrico

3/2 1/4" double solenoid pilot



SOLO VERSIONE IN ALLUMINIO

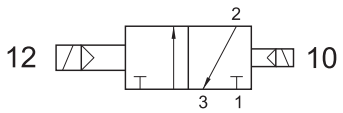
ONLY ALUMINIUM VERSION



322 EED

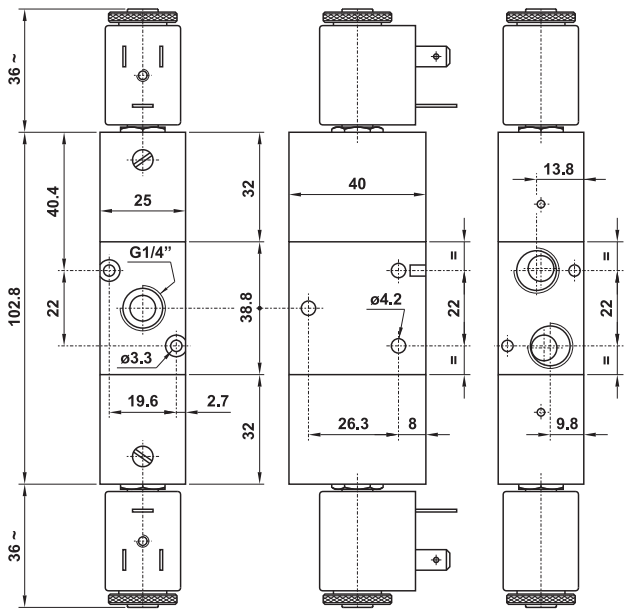
3/2 1/4" doppio comando elettrico - con differenziale

3/2 1/4" double solenoid pilot - with differential



SOLO VERSIONE IN ALLUMINIO

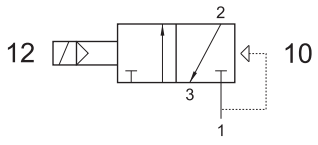
ONLY ALUMINIUM VERSION



322 EFP

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

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

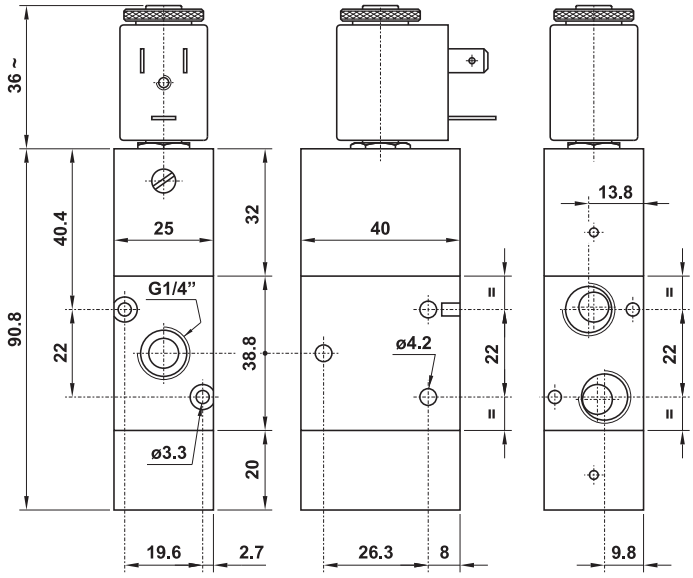


Non può essere utilizzata come valvola normalmente aperta.

It cannot be used as normally open valve.

SOLO VERSIONE IN ALLUMINIO

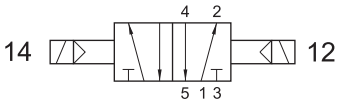
ONLY ALUMINIUM VERSION



522 EE

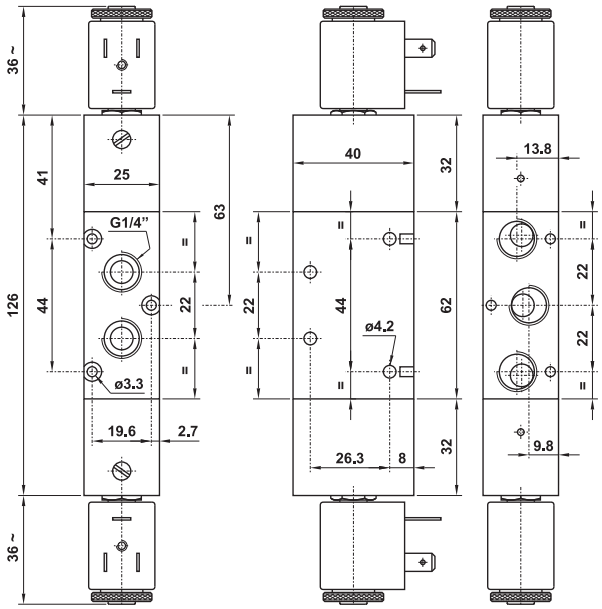
5/2 1/4" doppio comando elettrico

5/2 1/4" double solenoid pilot



SOLO VERSIONE IN ALLUMINIO

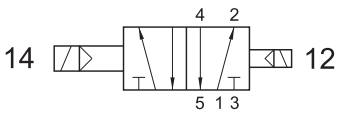
ONLY ALUMINIUM VERSION



522 EED

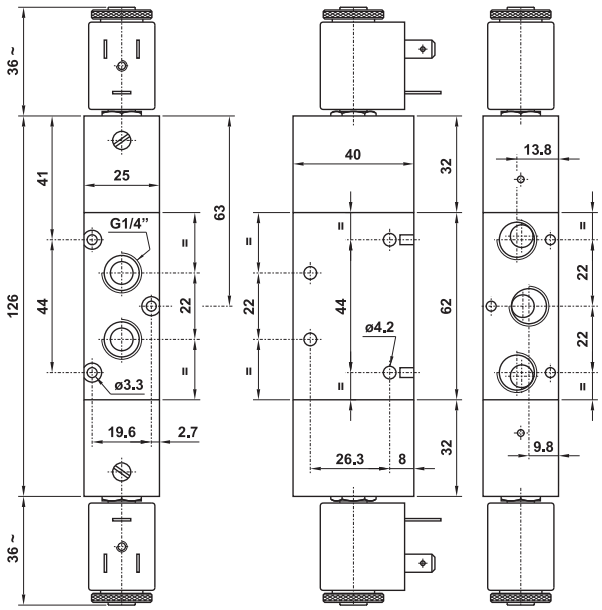
5/2 1/4" doppio comando elettrico - con differenziale

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



SOLO VERSIONE IN ALLUMINIO

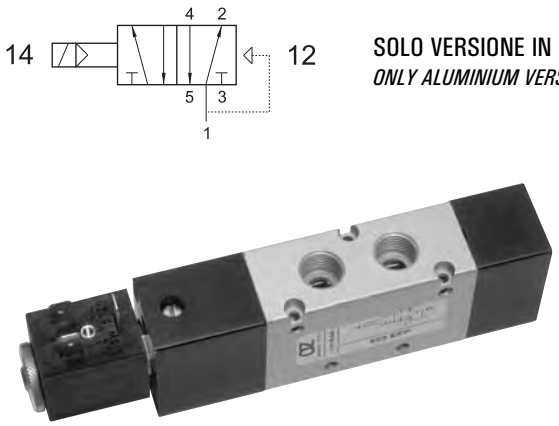
ONLY ALUMINIUM VERSION



522 EFP

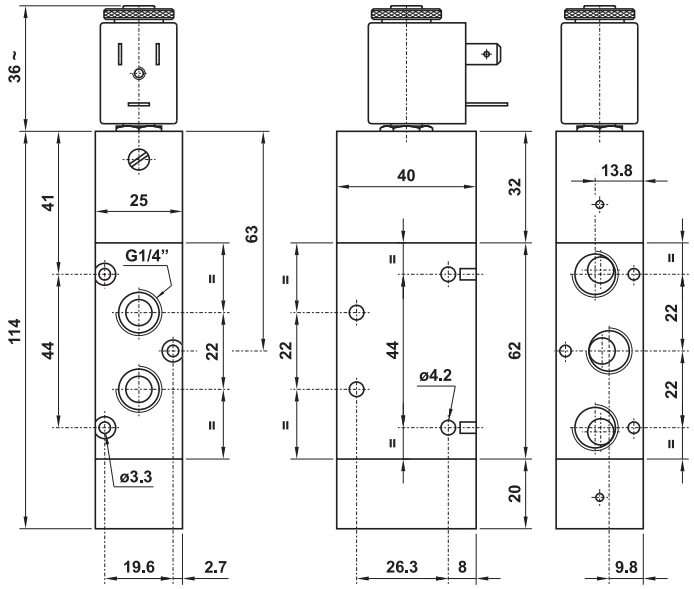
5/2 1/4" comando elettrico - ritorno a molla pneumatica

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



SOLO VERSIONE IN ALLUMINIO

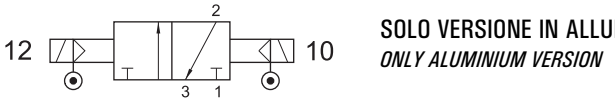
ONLY ALUMINIUM VERSION



322 EE AS

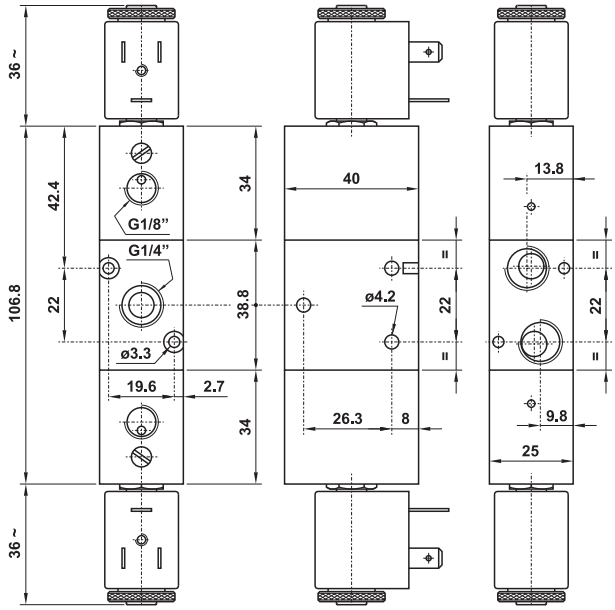
3/2 1/4" doppio comando elettrico alimentazione separata

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



SOLO VERSIONE IN ALLUMINIO

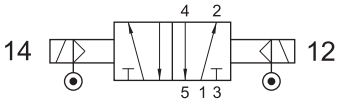
ONLY ALUMINIUM VERSION



522 EE AS

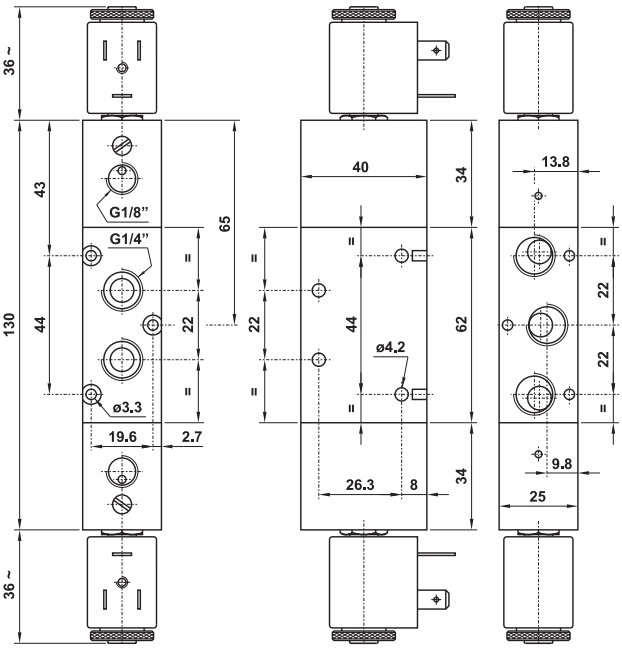
5/2 1/4" doppio comando elettrico alimentazione separata

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



SOLO VERSIONE IN ALLUMINIO

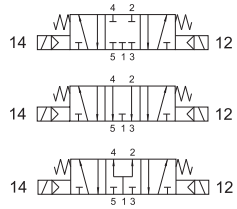
ONLY ALUMINIUM VERSION



5223C EE
centri chiusi
closed centres

5223A EE
centri aperti
open centres

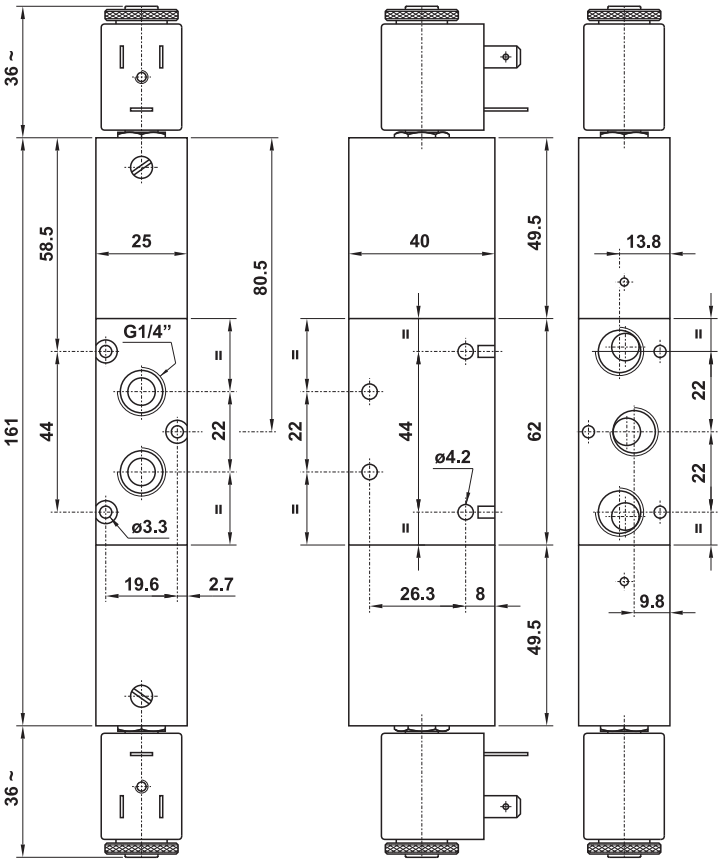
5223P EE
centri in pressione
pressurized centres



5/3 1/4" doppio comando elettrico
5/3 1/4" double solenoid pilot

1

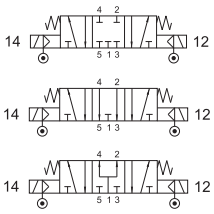
SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION



5223C EE AS
centri chiusi
closed centres

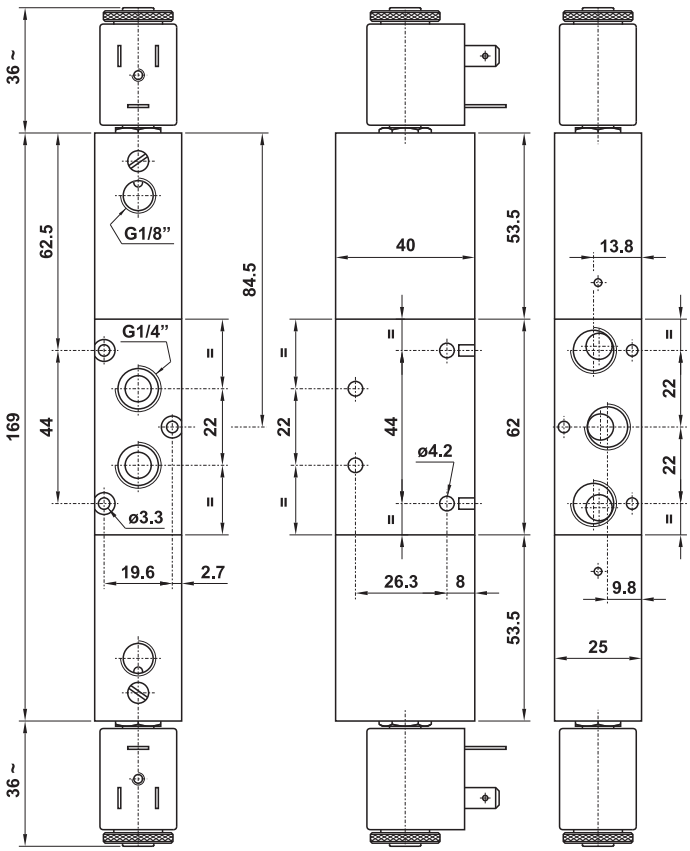
5223A EE AS
centri aperti
open centres

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

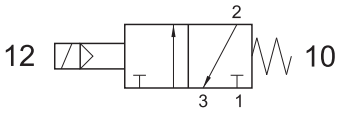
SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION



322 MRE

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

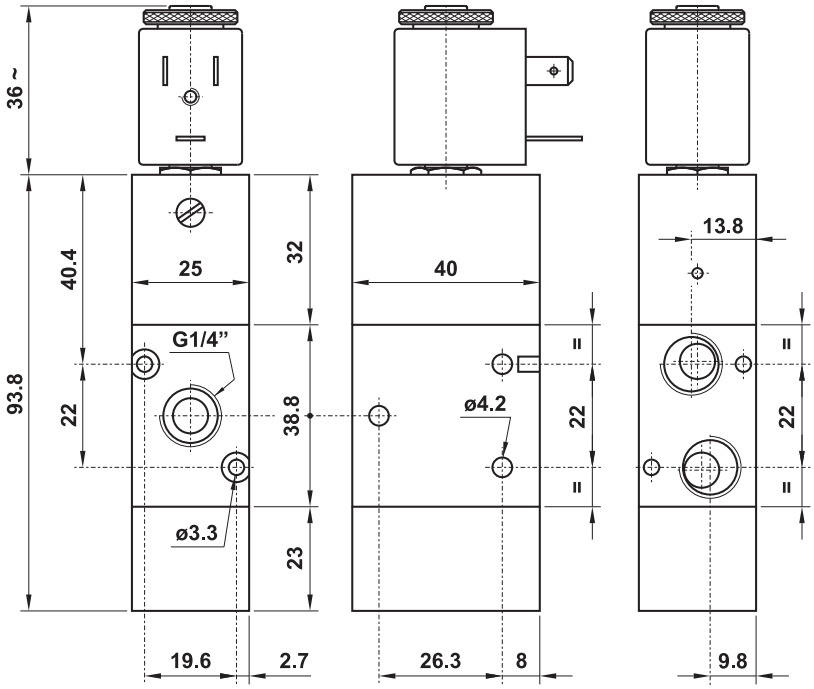
3/2 1/4" NC solenoid pilot - REINFORCED spring return



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

Pressione di esercizio: 2.5 ... 10 bar
Working pressure: 2.5 ... 10 bar
La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.
The reinforced spring allows a prompt return of the spool also in lack of air.

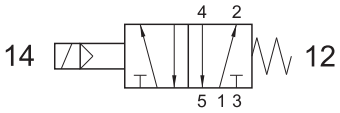
Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



522 MRE

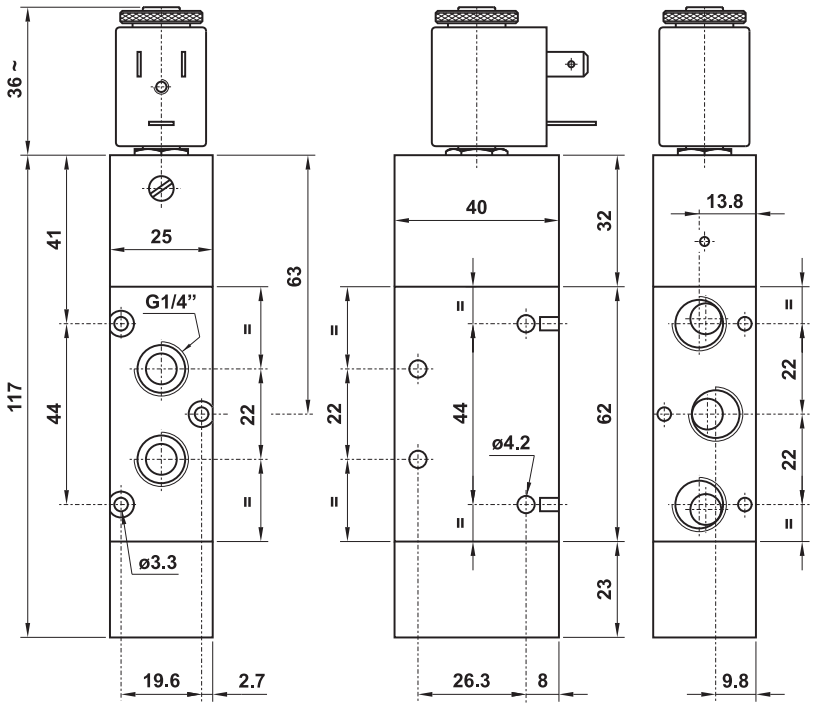
5/2 1/4" comando elettrico - ritorno a molla RINFORZATA

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



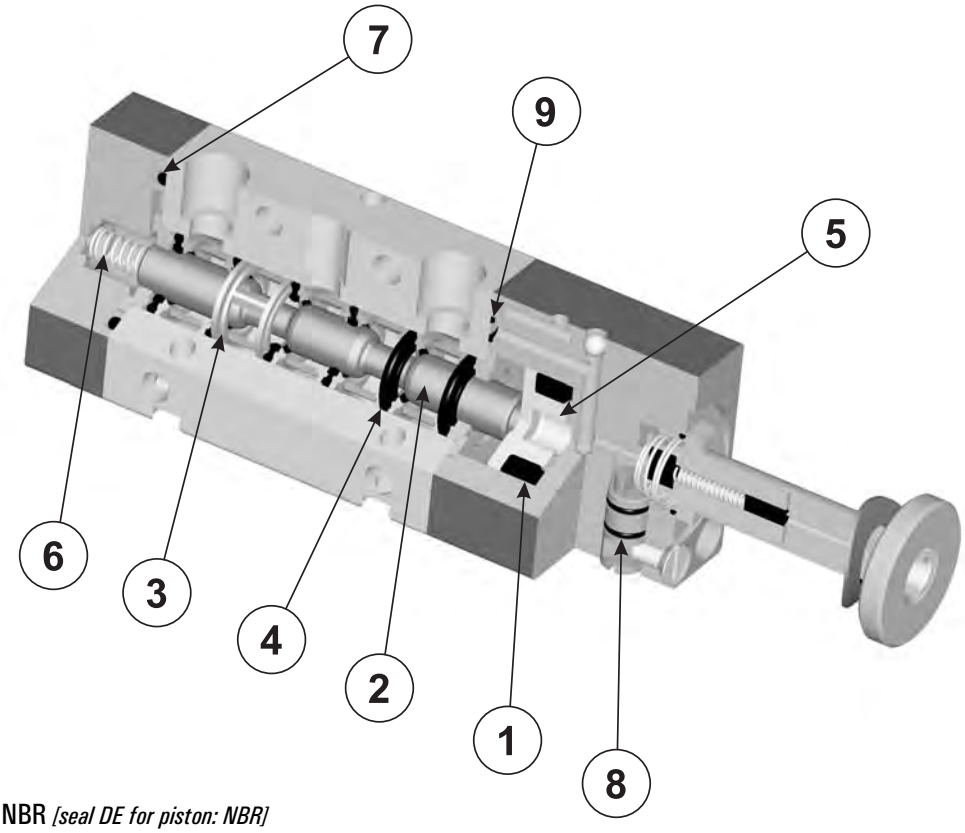
Pressione di esercizio: 2.5 ... 10 bar
Working pressure: 2.5 ... 10 bar
La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.
The reinforced spring allows a prompt return of the spool also in lack of air.

Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



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	

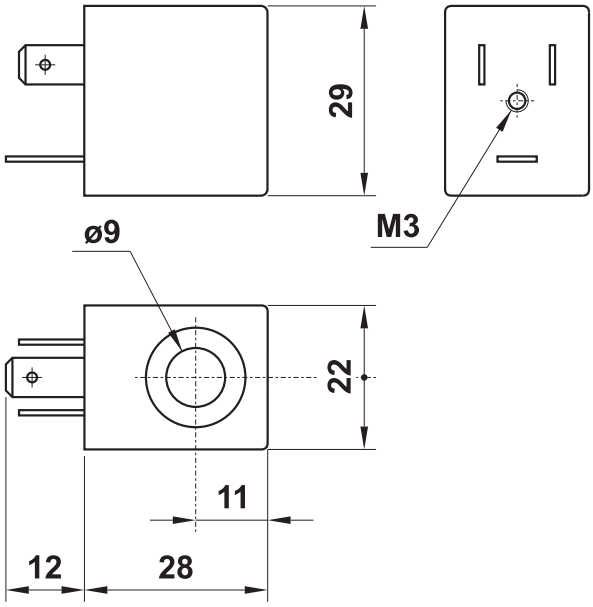
codice kit *code of kit*	utilizzabile per *suitable for*		
00.038.2	321 EED	321 EFP	321 CCD
	321 CFP		
00.041.2	521 EED	521 EFP	521 CCD
	521 CFP		
01.019.2	322 EED	322 EFP	322 CCD
	322 CFP		
01.022.2	522 EED	522 EFP	522 CCD
	522 CFP		
00.050.2	321 ME AS		
01.035.2	322 ME AS		
00.051.2	521 ME AS		
01.036.2	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

22 mm

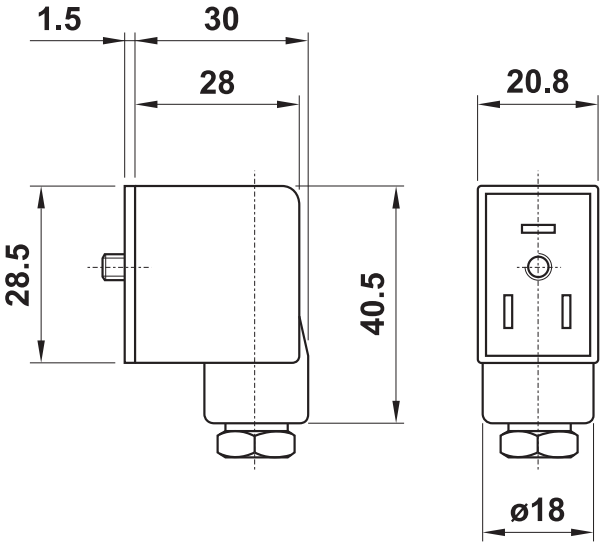
temperatura max di esercizio	**+50°C**	*max working temperature*
inserimento	**ED 100%**	*duty cycle*
protezione **con connettore** correttamente montato	**IP 65**	*protection **with connector** correctly mounted*
tolleranza di tensione	**±10%**	*tension tolerance*

- a richiesta basso assorbimento 24V DC 1.5W: **00.196.0**
  *low consumption (24V DC 1.5W) on request: **00.196.0***

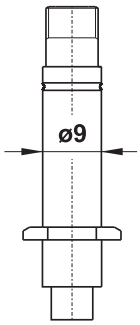
codice *code*	**tensione** *tension*	**consumo** - *power*	
		a regime *rated*	**di spunto** *inrush*
00.167.0	12V DC	3W	
00.028.0	24V DC	3W	
00.029.0	24V 50/60Hz	5VA	7.5VA
00.030.0	110V 50/60Hz	5VA	7.5VA
00.031.0	220V 50/60Hz	5VA	7.5VA



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



PEZZI DI RICAMBIO - *spare parts*



canotto per elettropilota
armature for solenoid pilot

NC : **00.088.0**
NA *[NO]* : **00.306.0**

ghiera in alluminio e rondella
aluminium nut and elastic ring

00.125.2

ghiera in plastica
nut in plastic material

00.186.0

Modalità di funzionamento

Alle valvole ad azionamento elettropneumatico della serie 521 (G1/8") e 522 (G1/4") è stata aggiunta una sede per sensore magnetico che rileva la posizione della spola. Se la spola rimane in posizione azionata quando dovrebbe essere in posizione di riposo, il segnale restituito dal sensore può essere utilizzato ad esempio per comandare una valvola di messa a scarico dell'intero circuito o un segnale di allarme.

Possono essere utilizzati i sensori Hall PNP per cava a C (vedi pag. 660-661).
Non sono ammessi campi magnetici di disturbo in prossimità dei sensori.

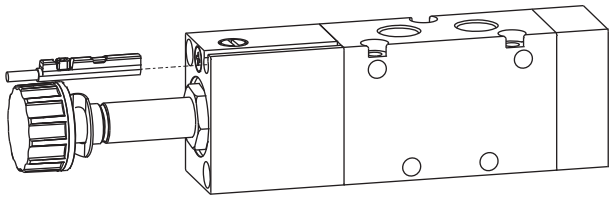
Valve operation

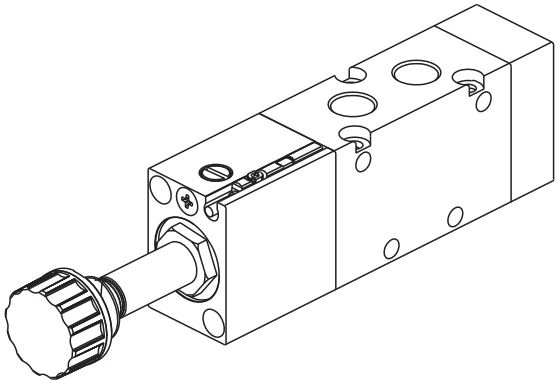
To the solenoid actuated valves of the series 521 (G1/8") and 522 (G1/4"), a slot for magnetic sensor has been added. The magnetic sensor detects the position of the spool. If the spool remains in the actuated position when it should be in the idle position, the signal provided by the sensor can be used, for example, to control a quick exhaust valve for the entire circuit or to activate an alarm signal.

Hall PNP sensors for C-slot can be used (refer to page 660-661).
Disturbing magnetic fields near the sensors are not allowed.

Schema di montaggio sensori
Sensor assembling scheme

Sensore diritto per cava a C
Straight sensor for C-slot

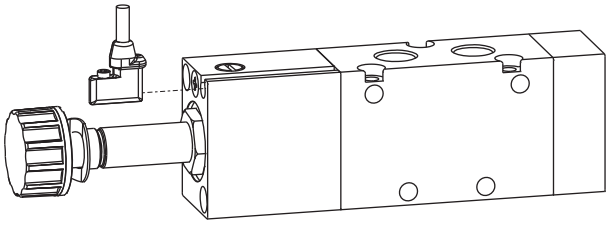


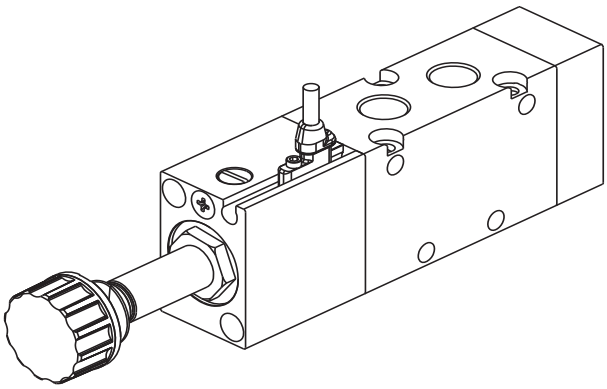


Sensori utilizzabili:
Usable sensors:

E3A-2C (**26.547.0**)
E3A-M8C (**26.564.0**)

Sensore a 90° per cava a C
90° sensor for C-slot





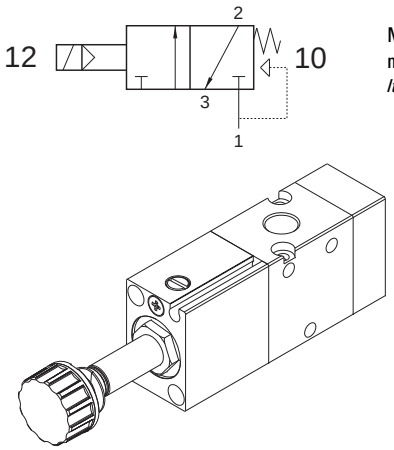
Sensori utilizzabili:
Usable sensors:

E3A90-M8C (**26.548.0**)

321S ME

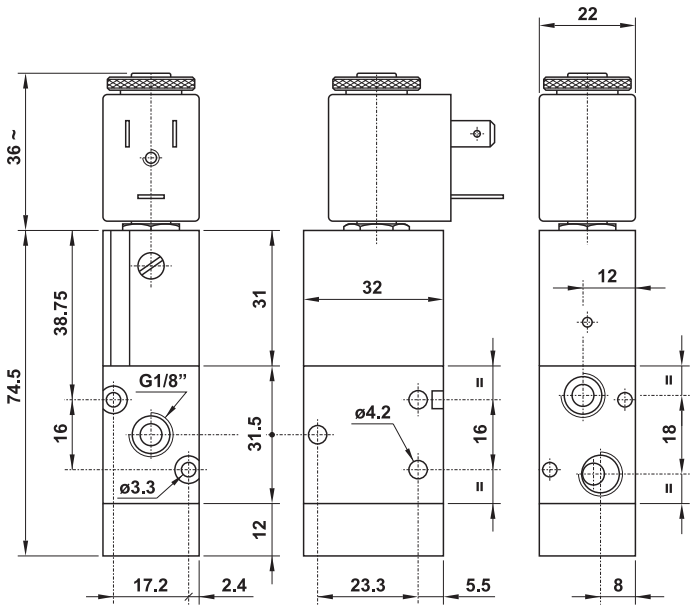
3/2 1/8" NC comando elettrico - ritorno a molla, con sede sensore

3/2 1/8" NC solenoid pilot - spring return, with slot for magnetic sensor



Non può essere utilizzata come valvola normalmente aperta.

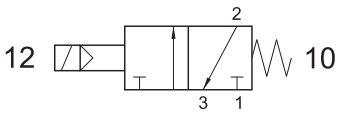
It cannot be used as normally open valve.



321S MRE

3/2 1/8" NC com. elettr. - ritorno a molla RINFORZATA, con sede sensore

3/2 1/8" NC solenoid pilot - REINFORCED spring return, with slot for magnetic sensor



Non può essere utilizzata come valvola normalmente aperta.

It cannot be used as normally open valve.

Pressione di esercizio: 2.5 ... 10 bar

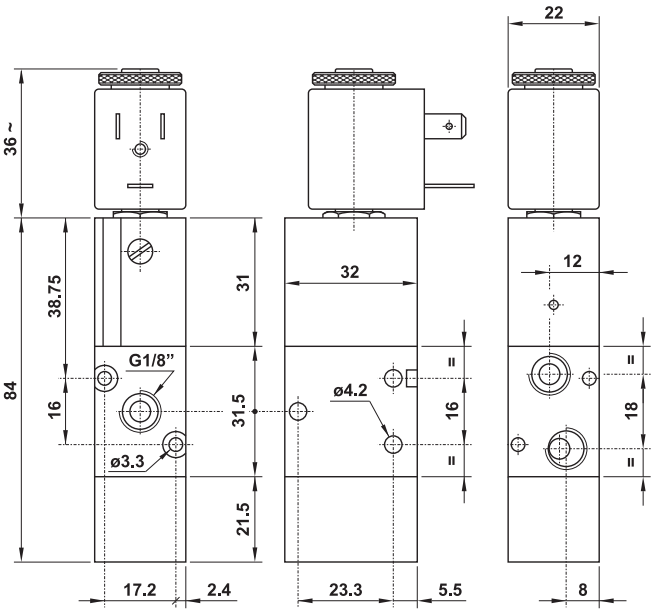
Working pressure: 2.5 ... 10 bar

La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.

The reinforced spring allows a prompt return of the spool also in lack of air.

Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.

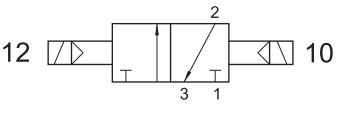
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



321S EE

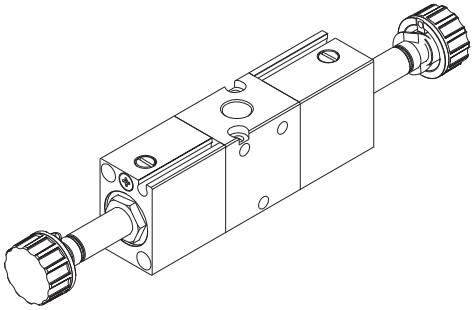
3/2 1/8" doppio comando elettrico, con sede sensore

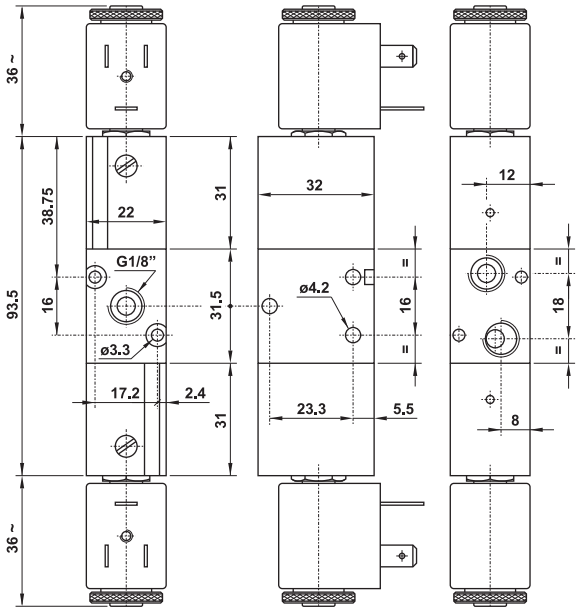
3/2 1/8" double solenoid pilot, with slot for magnetic sensor



SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

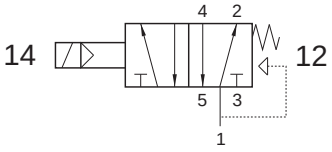


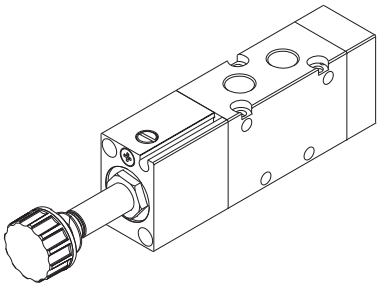


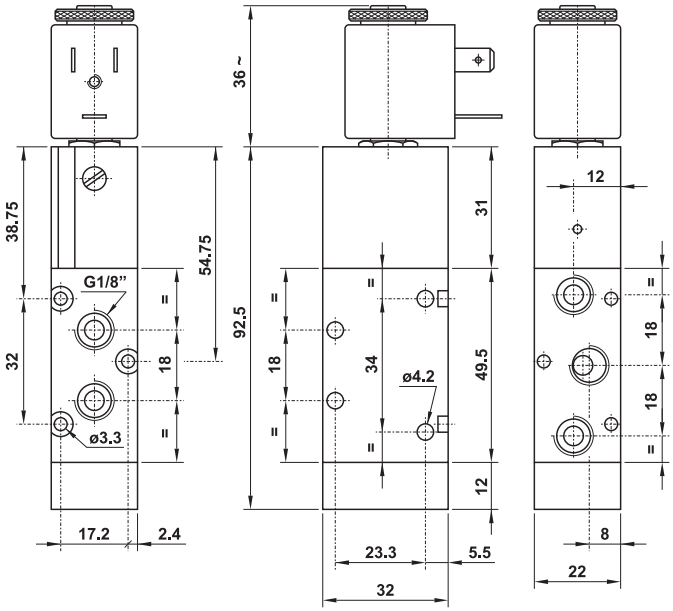
521S ME

5/2 1/8" comando elettrico - ritorno a molla, con sede sensore

5/2 1/8" solenoid pilot - spring return, with slot for magnetic sensor



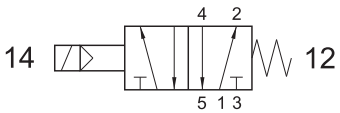




521S MRE

5/2 1/8" com. elettrico - ritorno a molla RINFORZATA, con sede sensore

5/2 1/8" solenoid pilot - REINFORCED spring return, with slot for magnetic sensor



Pressione di esercizio: 2.5 ... 10 bar

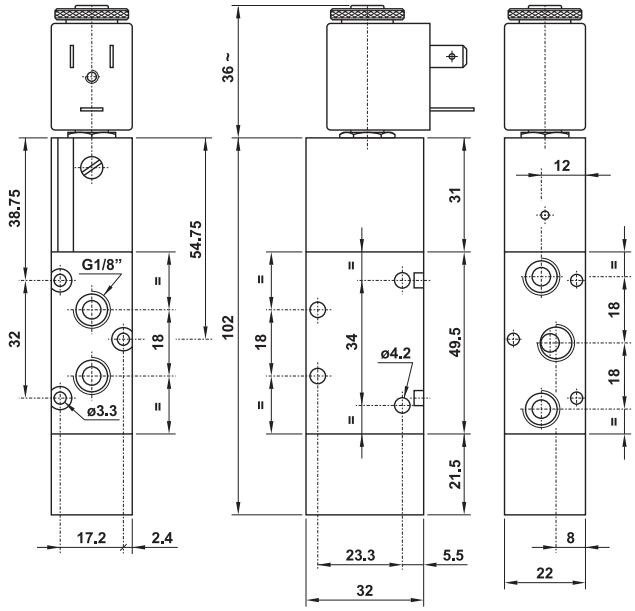
Working pressure: 2.5 ... 10 bar

La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.

The reinforced spring allows a prompt return of the spool also in lack of air.

Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.

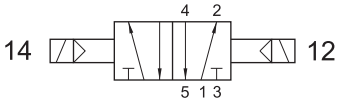
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



521S EE

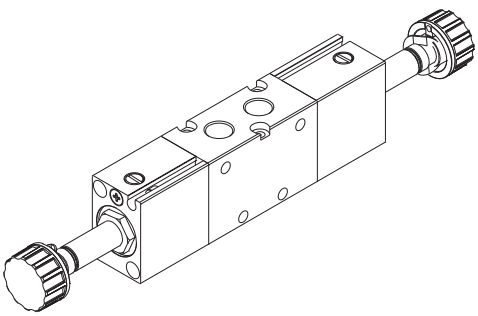
5/2 1/8" doppio comando elettrico, con sede sensore

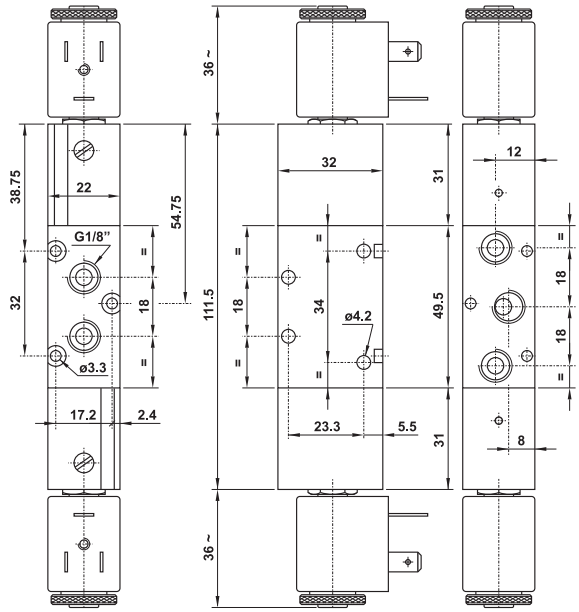
5/2 1/8" double solenoid pilot, with slot for magnetic sensor



SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

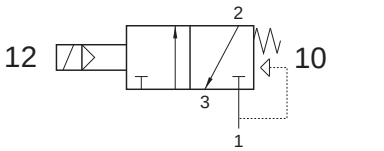




322S ME

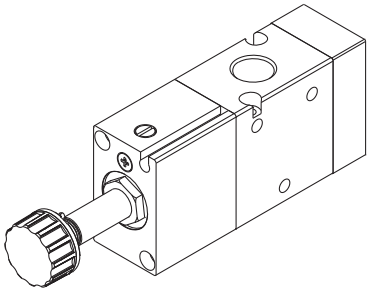
3/2 1/4" NC comando elettrico - ritorno a molla, con sede sensore

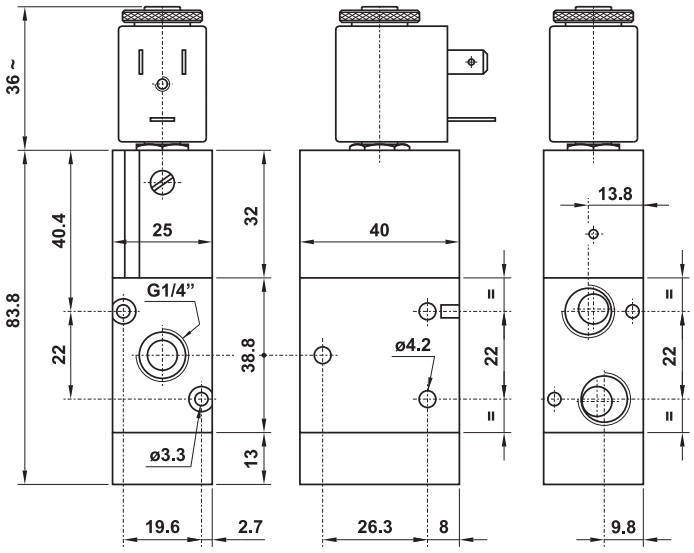
3/2 1/4" NC solenoid pilot - spring return, with slot for magnetic sensor



Non può essere utilizzata come valvola normalmente aperta.

It cannot be used as normally open valve.

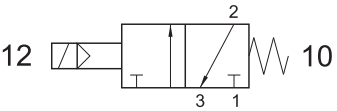




322S MRE

3/2 1/4" NC com. elettr. - rit. a molla RINFORZATA, con sede sensore

3/2 1/4" NC solenoid pilot - REINFORCED spring return, with slot for magnetic sensor



Non può essere utilizzata come valvola normalmente aperta.

It cannot be used as normally open valve.

Pressione di esercizio: 2.5 ... 10 bar

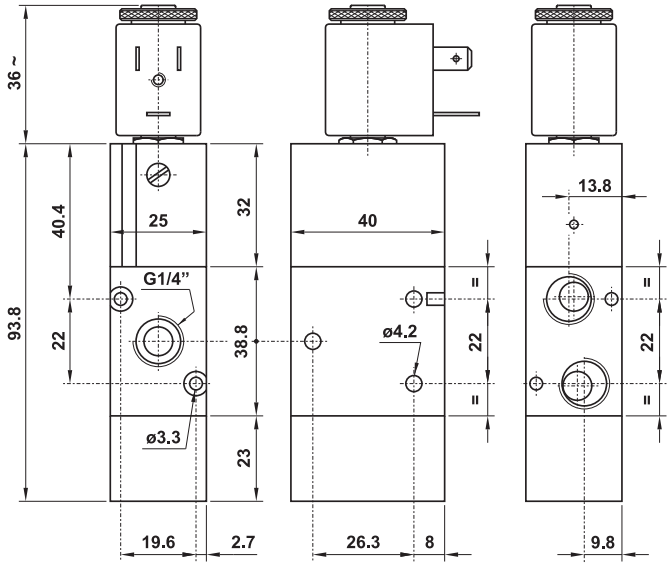
Working pressure: 2.5 ... 10 bar

La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.

The reinforced spring allows a prompt return of the spool also in lack of air.

Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.

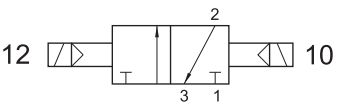
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



322S EE

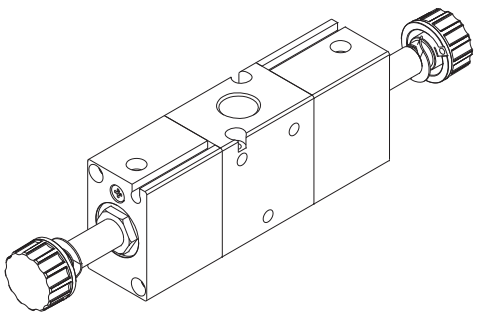
3/2 1/4" doppio comando elettrico, con sede sensore

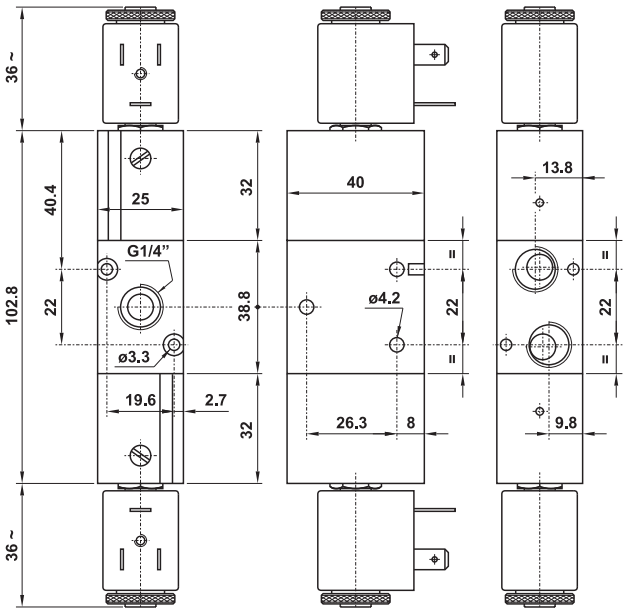
3/2 1/4" double solenoid pilot, with slot for magnetic sensor



SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

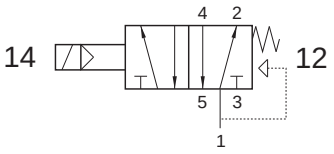


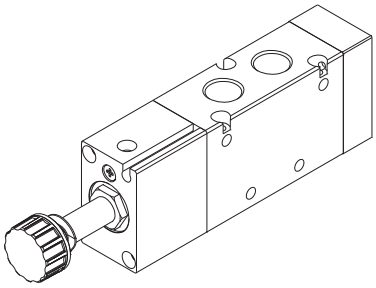


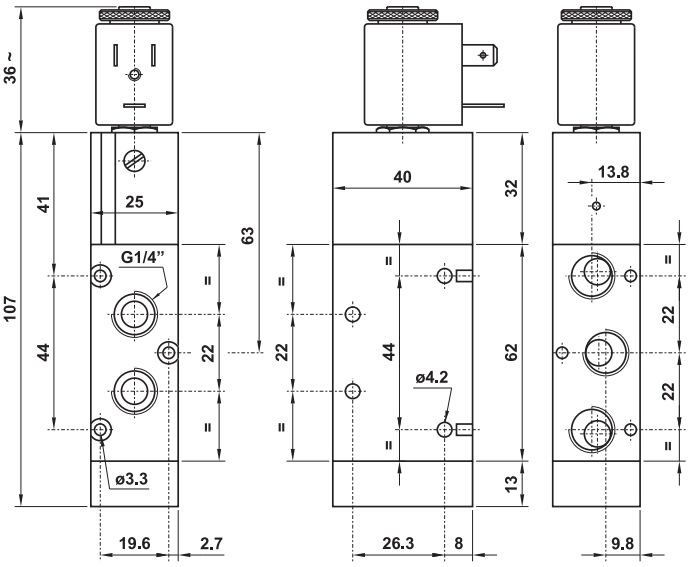
522S ME

5/2 1/4" comando elettrico - ritorno a molla, con sede sensore

5/2 1/4" solenoid pilot - spring return, with slot for magnetic sensor



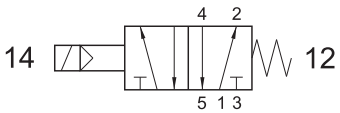




522S MRE

5/2 1/4" com. elettr. - ritorno a molla RINFORZATA, con sede sensore

5/2 1/4" solenoid pilot - REINFORCED spring return, with slot for magnetic sensor



Pressione di esercizio: 2.5 ... 10 bar

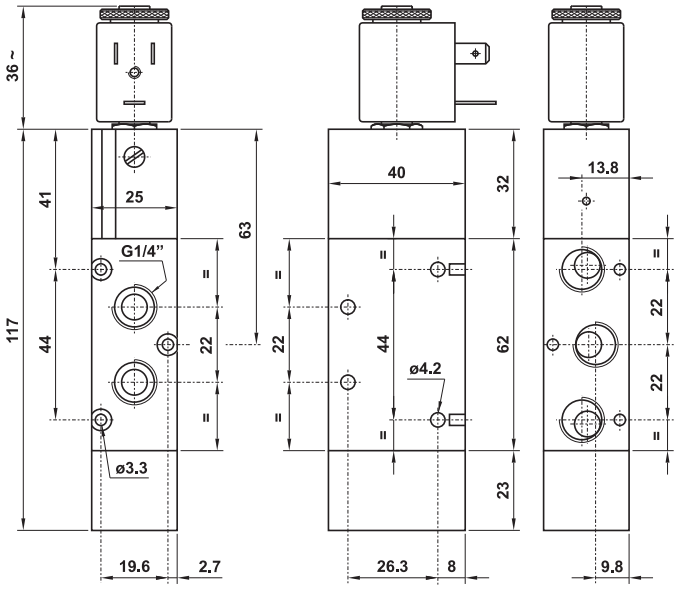
Working pressure: 2.5 ... 10 bar

La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.

The reinforced spring allows a prompt return of the spool also in lack of air.

Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.

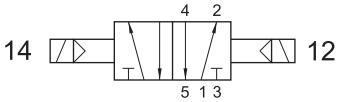
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



522S EE

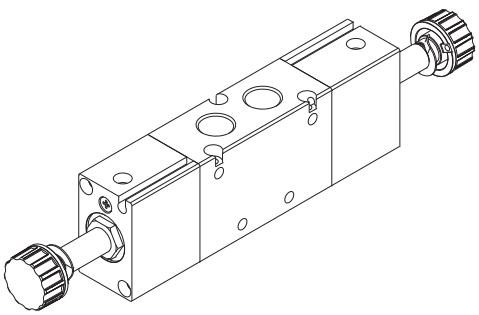
5/2 1/4" doppio comando elettrico, con sede sensore

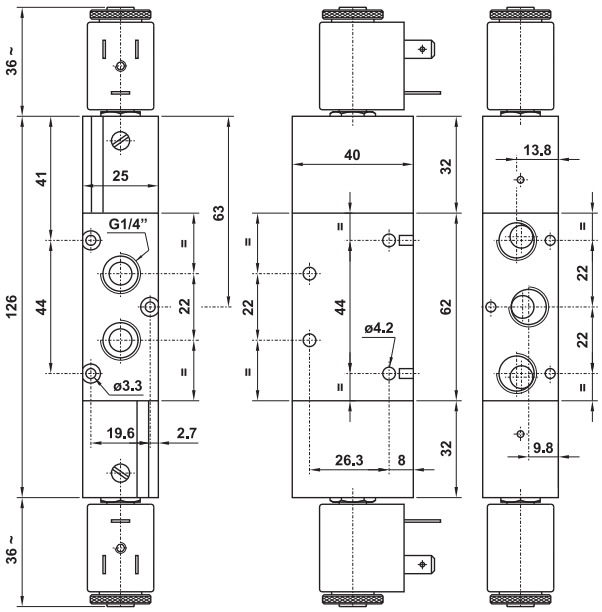
5/2 1/4" double solenoid pilot, with slot for magnetic sensor



SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

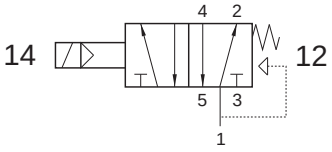


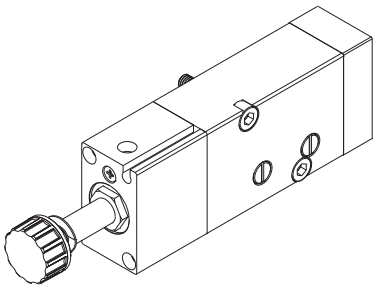


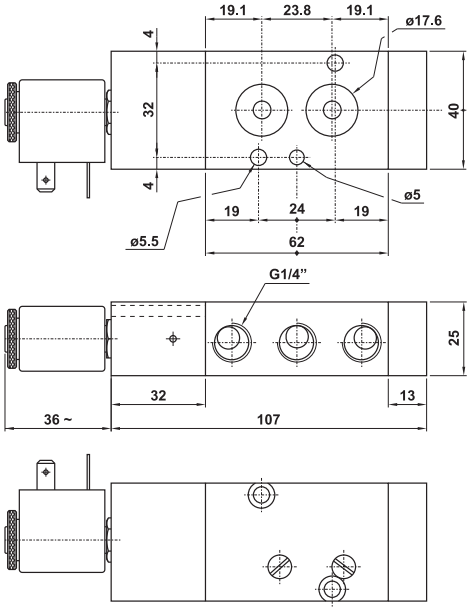
582S ME **NAMUR**

5/2 comando elettrico - ritorno a molla, con sede sensore

5/2 solenoid pilot - spring return, with slot for magnetic sensor



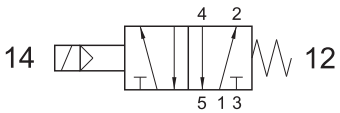




582S MRE **NAMUR**

5/2 comando elettr. - ritorno a molla RINFORZATA, con sede sensore

5/2 solenoid pilot - REINFORCED spring return, with slot for magnetic sensor



Pressione di esercizio: 2.5 ... 10 bar

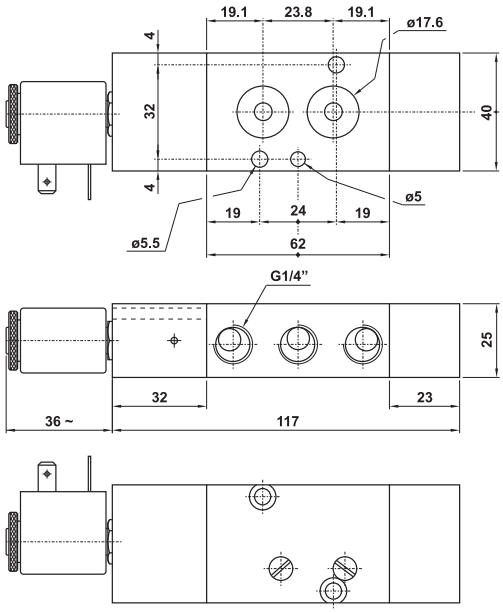
Working pressure: 2.5 ... 10 bar

La molla rinforzata permette un ritorno efficace della spola anche in assenza di aria.

The reinforced spring allows a prompt return of the spool also in lack of air.

Attenzione: il fondello per molla rinforzata è più lungo rispetto al fondello di una valvola con ritorno a molla normale.

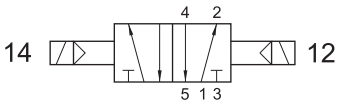
Attention: the bottom end cap for reinforced spring return is longer than the end cap for normal spring return.



582S EE **NAMUR**

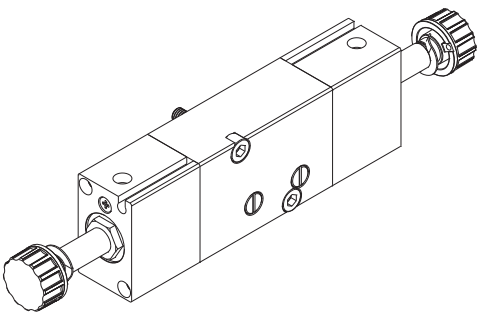
5/2 doppio comando elettrico, con sede sensore

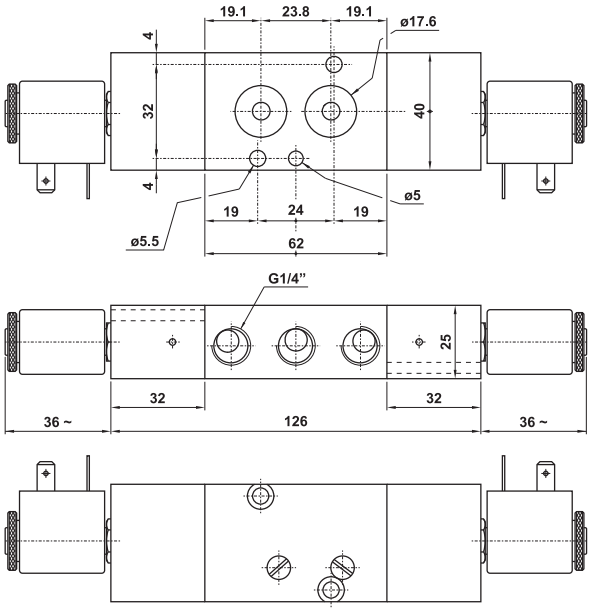
5/2 double solenoid pilot, with slot for magnetic sensor



SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

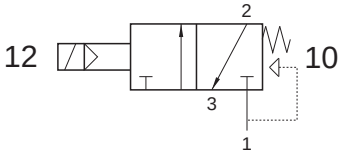




321 ME MIC xx

3/2 1/8" NC comando elettrico con elettropilota 15 mm
3/2 1/8" NC with 15 mm solenoid pilot

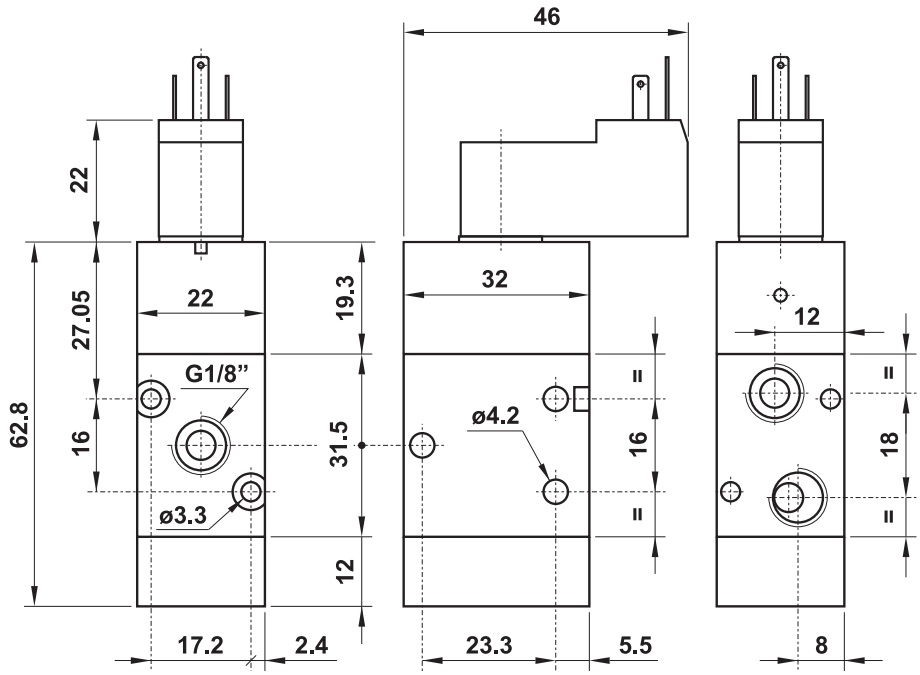
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



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

Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

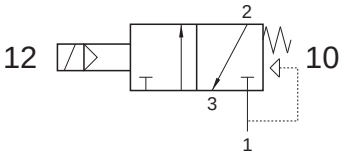
24V DC	**01**
24V 50/60Hz	**02**



322 ME MIC xx

3/2 1/4" NC comando elettrico con elettropilota 15 mm
3/2 1/4" NC with 15 mm solenoid pilot

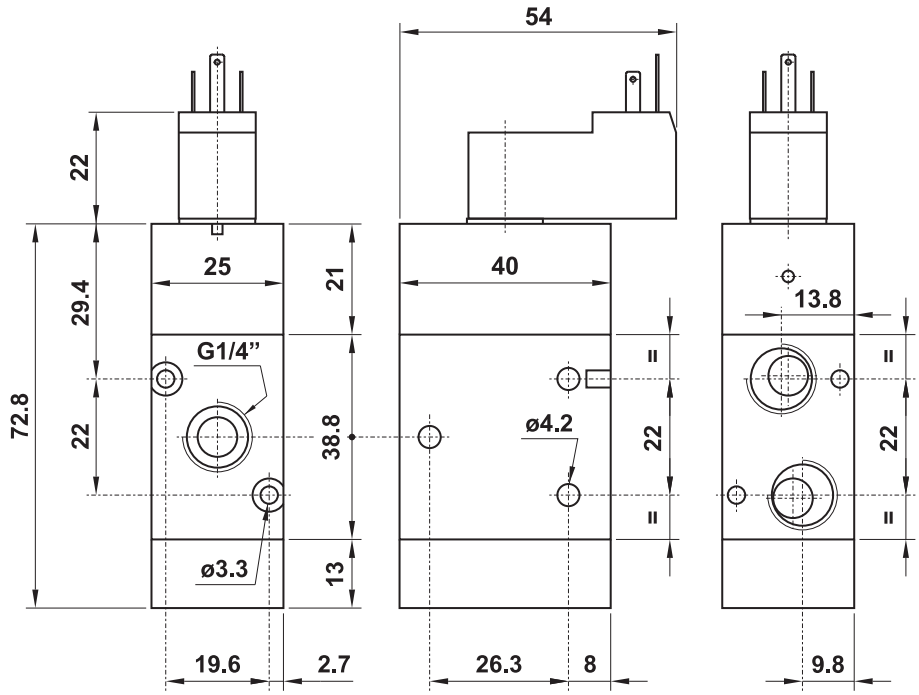
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



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

Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.
In the part number replace "xx" with the reference of the solenoid tension.

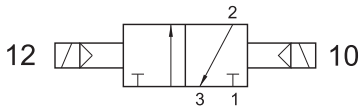
24V DC	**01**
24V 50/60Hz	**02**



321 EE MIC xx

3/2 1/8" doppio comando elettrico con elettropilota 15 mm
3/2 1/8" with double 15 mm solenoid pilot

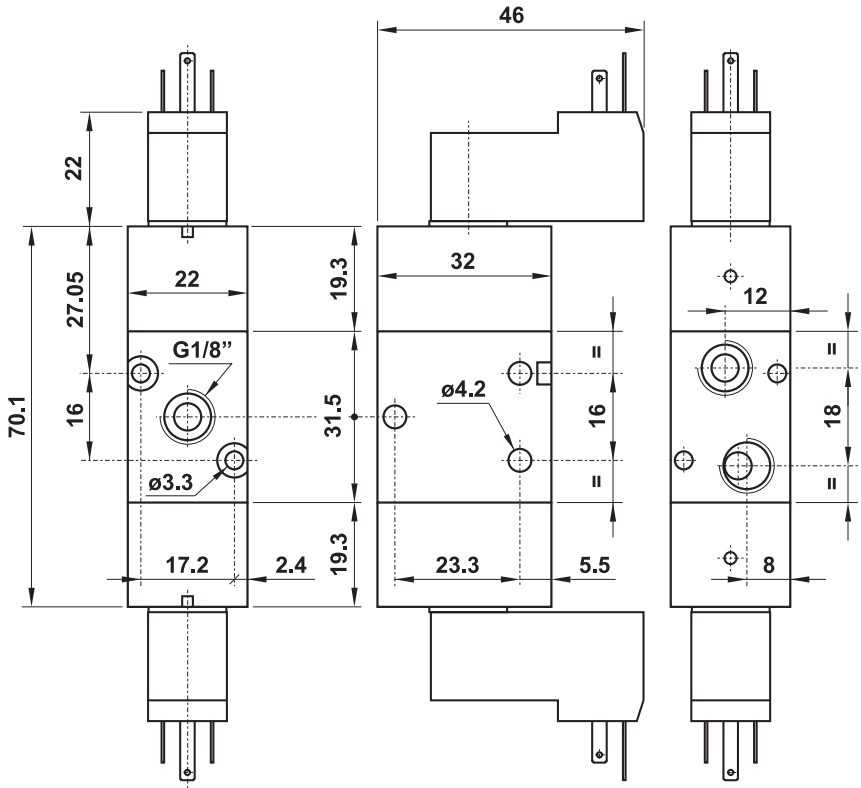
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION

Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.
*In the part number replace "**xx**" with the reference of the solenoid tension.*

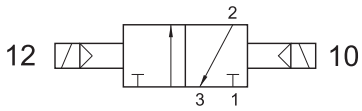
24V DC	**01**
24V 50/60Hz	**02**



322 EE MIC xx

3/2 1/4" doppio comando elettrico con elettropilota 15 mm
3/2 1/4" with double 15 mm solenoid pilot

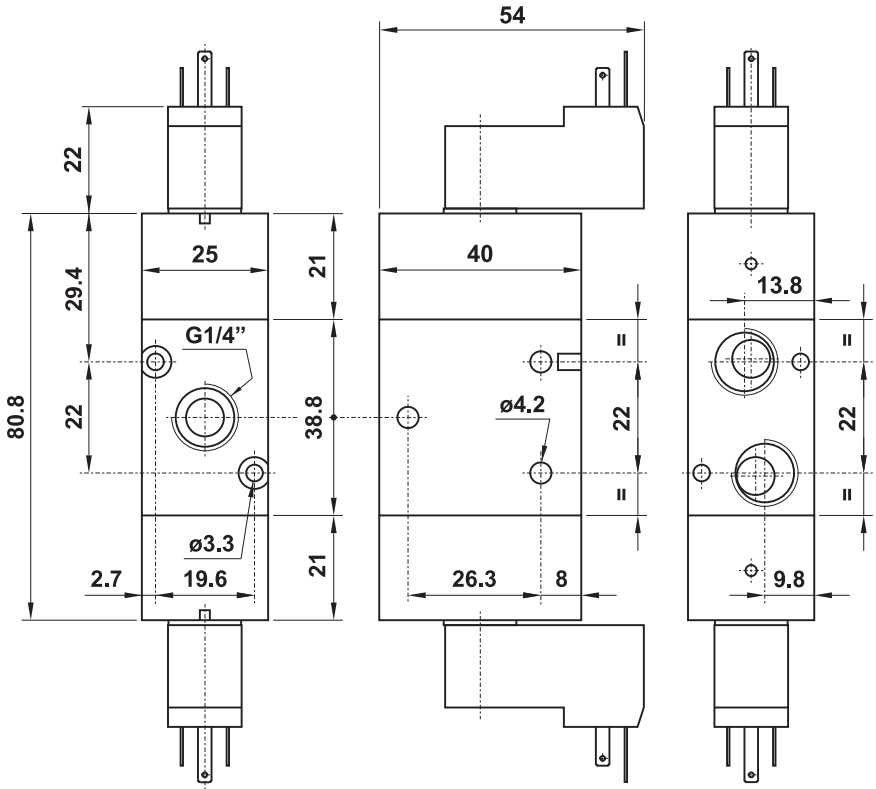
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION

Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.
*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**



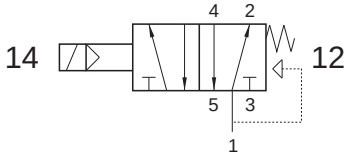
521 ME MIC xx

5/2 1/8" comando elettrico con elettropilota 15 mm

5/2 1/8" with 15 mm solenoid pilot

La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).

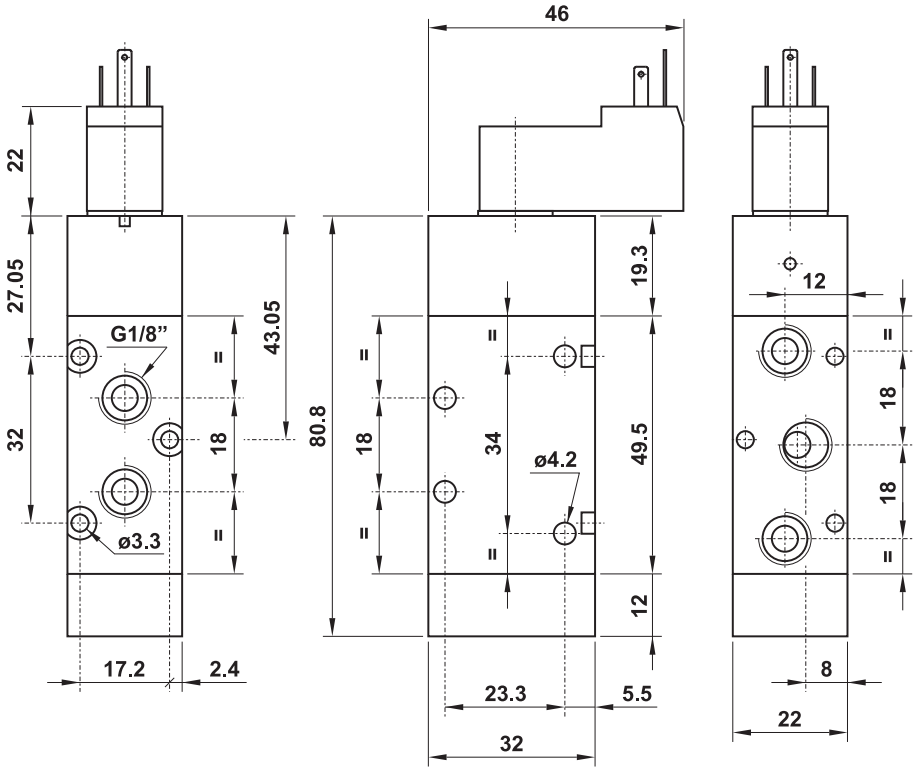
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**



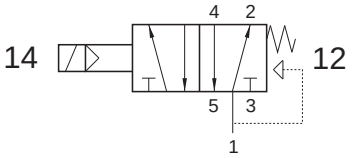
522 ME MIC xx

5/2 1/4" comando elettrico con elettropilota 15 mm

5/2 1/4" with 15 mm solenoid pilot

La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).

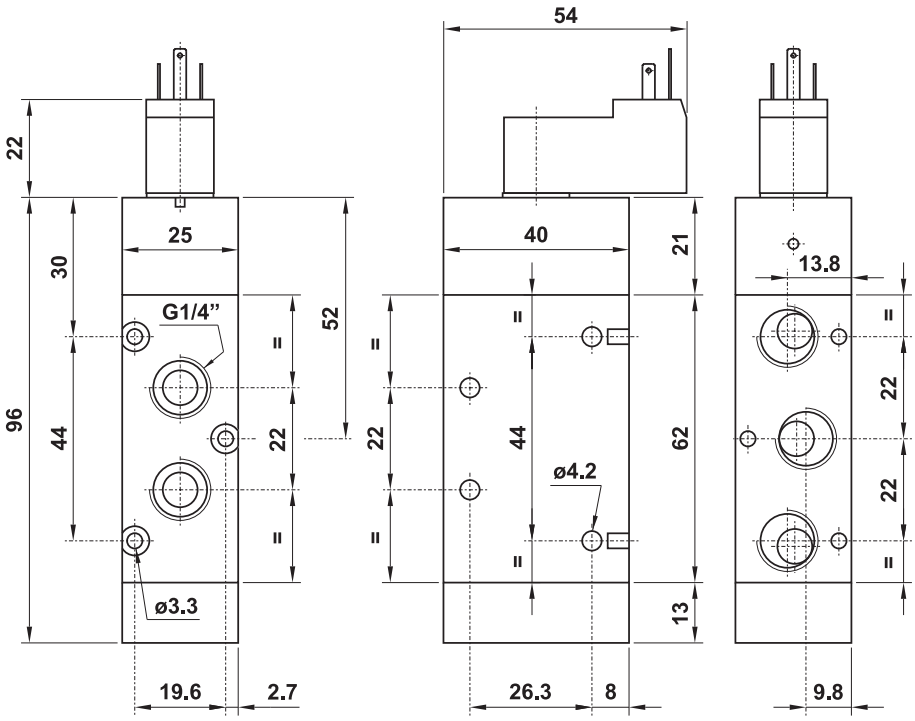
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

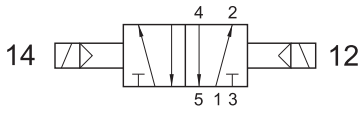
24V DC	**01**
24V 50/60Hz	**02**



521 EE MIC xx

5/2 1/8" doppio comando elettrico con elettropilota 15 mm
5/2 1/8" with double 15 mm solenoid pilot

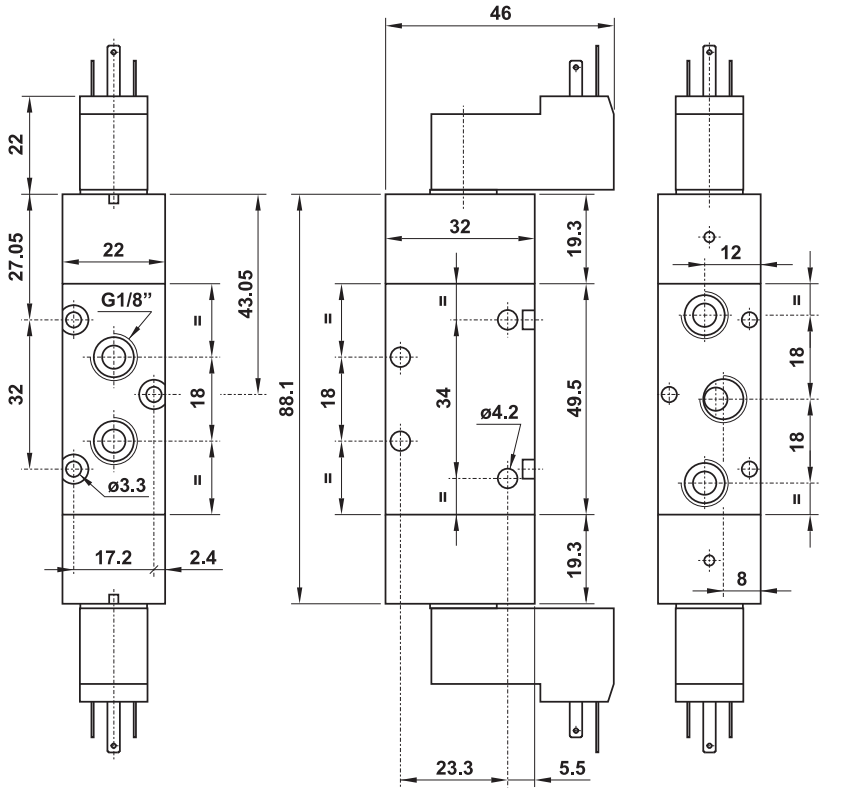
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION

Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.
*In the part number replace "**xx**" with the reference of the solenoid tension.*

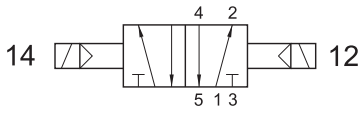
24V DC	**01**
24V 50/60Hz	**02**



522 EE MIC xx

5/2 1/4" doppio comando elettrico con elettropilota 15 mm
5/2 1/4" with double 15 mm solenoid pilot

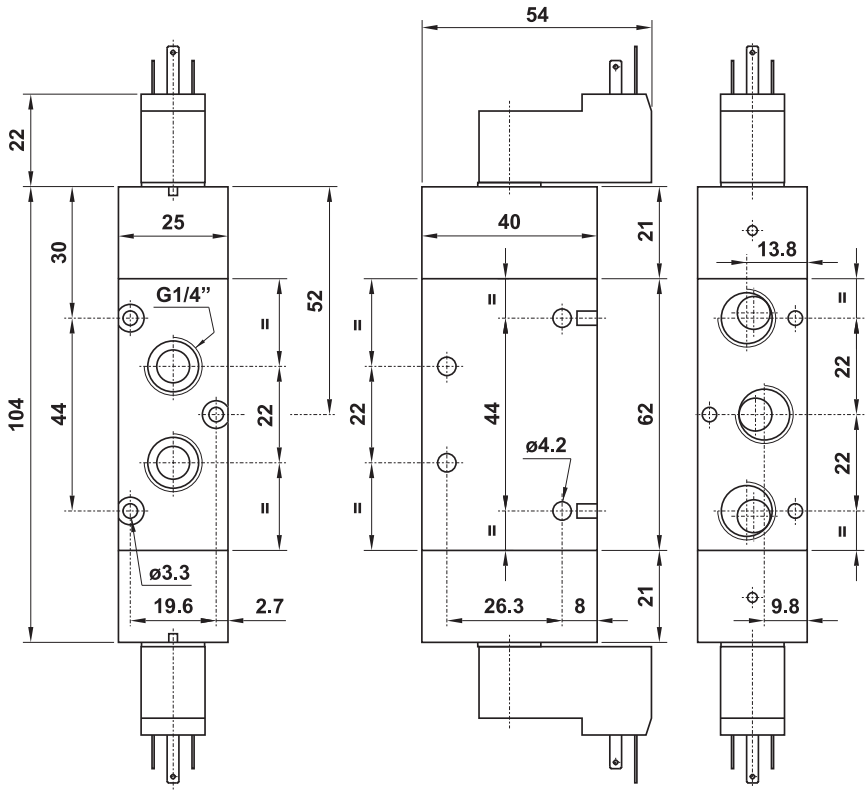
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).
The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.



SOLO VERSIONE IN ALLUMINIO
ONLY ALUMINIUM VERSION

Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.
*In the part number replace "**xx**" with the reference of the solenoid tension.*

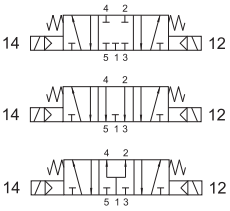
24V DC	**01**
24V 50/60Hz	**02**



5213C EE MIC xx
centri chiusi *closed centres*

5213A EE MIC xx
centri aperti *open centres*

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



5/3 1/8" doppio comando elettrico con elettropilota 15 mm

5/3 1/8" with double 15 mm solenoid pilot

SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

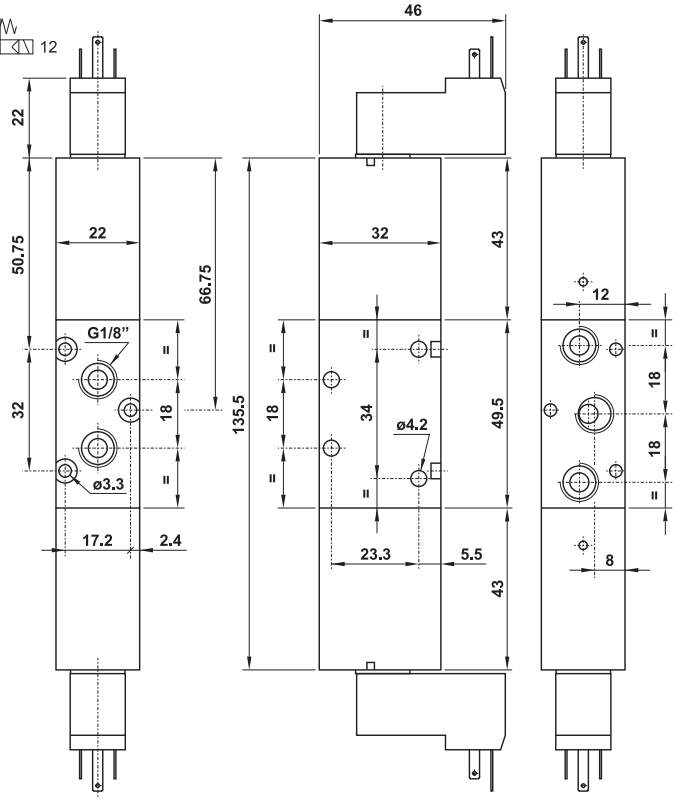
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).

The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.

Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

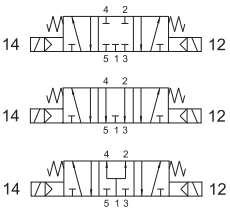
24V DC	**01**
24V 50/60Hz	**02**



5223C EE MIC xx
centri chiusi *closed centres*

5223A EE MIC xx
centri aperti *open centres*

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



5/3 1/4" doppio comando elettrico con elettropilota 15 mm

5/3 1/4" with double 15 mm solenoid pilot

SOLO VERSIONE IN ALLUMINIO

ONLY ALUMINIUM VERSION

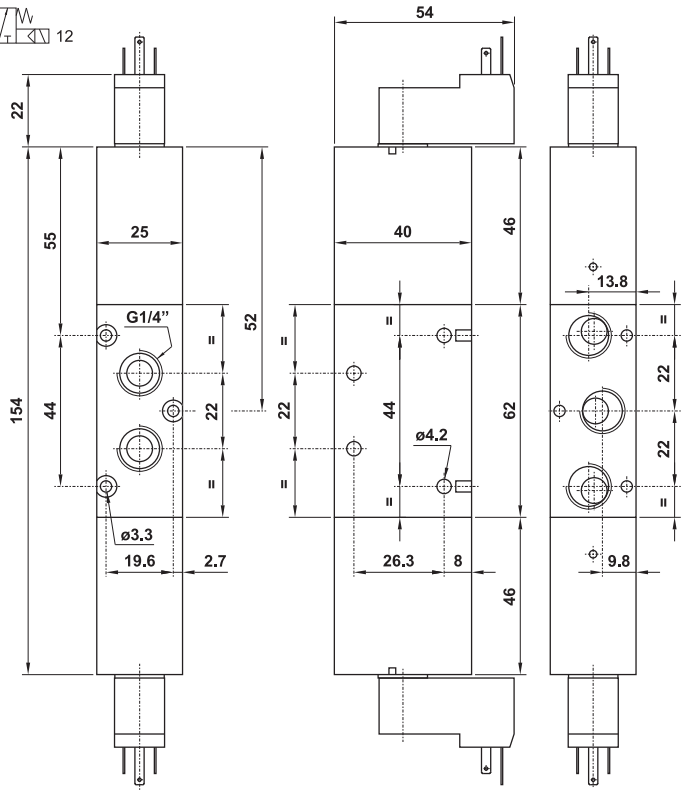
La valvola è venduta con elettropilota/i montato/i (per i dati tecnici vedi pag. 221).

The valve is sold with mounted solenoid pilot(s); for technical data refer to page 221.

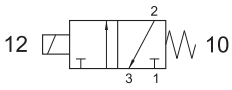
Nella sigla del prodotto sostituire le lettere "**xx**" con l'indicazione della tensione.

*In the part number replace "**xx**" with the reference of the solenoid tension.*

24V DC	**01**
24V 50/60Hz	**02**



15 mm



funzione della valvola	**3/2 NC**	*valve function*
diametro nominale	**1.1 mm**	*nominal orifice*
portata 1-2	**30 Nl/min**	*flow rate 1-2*
portata 2-3	**35 Nl/min**	*flow rate 2-3*
pressione di esercizio	**max 10 bar**	*working pressure*
durata cicli	**100x10^6**	*life time (cycles)*
tempo di risposta	**10 ms**	*response time*
temperatura max di esercizio	**+50°C**	*max working temperature*
inserimento	**ED 100%**	*duty cycle*
consumo a regime	**DC: 2W**	*rated power consumption*
	AC: 1.3VA	
protezione	**IP 51**	*protection*
tolleranza di tensione	**-10%; +15%**	*tension tolerance*

- Connessione elettrica: DIN 43650 forma C
  Electrical connection: DIN 43650, C form
- Con azionatore manuale monostabile
  With non-detented manual override

ACCESSORI - *accessories*

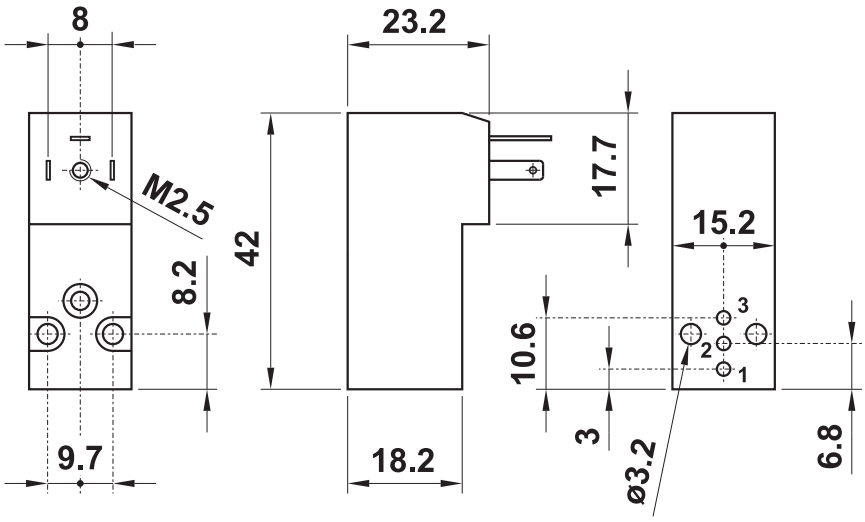
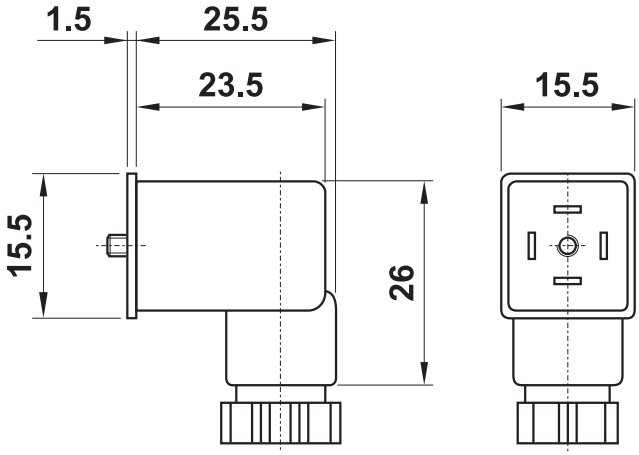
piastrina con guarnizione
mounting plate with gasket

00.414.0

vite di fissaggio (sono necessarie 2 viti)
mounting screw (2 screws are necessary)

00.413.0

codice *code*	**tensione** *tension*
00.253.0	12V DC
00.254.0	24V DC
00.255.0	24V 50/60Hz
00.256.0	110V 50/60Hz
00.257.0	220V 50/60Hz



codice *code*	**colore** *colour*	**cavo** *cable*	**tipo** *type*
00.252.0	nero *black*	PG07	normale *standard*
00.341.0	trasparente *transparent*	PG07	con LED 24V e VDR *with LED 24V and VDR*
00.342.0	trasparente *transparent*	PG07	con LED 115V *with LED 115V*
00.343.0	trasparente *transparent*	PG07	con LED 115V e VDR *with LED 115V and VDR*
00.398.0	trasparente *transparent*	PG07	con LED 230V *with LED 230V*
00.399.0	trasparente *transparent*	PG07	con LED 230V e VDR *with LED 230V and VDR*