



	pagina page
• Microvalvole ..... <i>Microvalves</i>	16
• Valvole ad azionamento meccanico ..... <i>Mechanically actuated valves</i>	34
• Valvole ad azionamento manuale ..... <i>Manually actuated valves</i>	42
• Attuatori da pannello ..... <i>Actuators for panel mounting</i>	64
• Valvole a pedale ..... <i>Pedal valves</i>	66
• Valvole 16 mm ad azionamento meccanico e manuale ..... <i>Mechanically and manually actuated valves - 16 mm</i>	70
• Valvole ad azionamento pneumatico (G1/8", G1/4") ..... <i>Pneumatically piloted valves (G1/8", G1/4")</i>	75
• Elettropiloti su base ..... <i>Solenoid valves on manifold</i>	90
• Elettropiloti su basi modulari ..... <i>Solenoid valves on multiple sub-bases</i>	93
• Bobine e connettori ..... <i>Coils and connectors</i>	98
• Valvole ad azionamento elettropneumatico (G1/8", G1/4") ..... <i>Solenoid actuated valves (G1/8", G1/4")</i>	103
• Sottobasi per valvole a spola ..... <i>Manifolds for spool valves</i>	122
• Valvole ed elettrovalvole G1/2" ..... <i>G1/2" valves and electrovalves</i>	129
• Valvole VDMA 18 mm ad azionamento pneumatico ..... <i>Pneumatically piloted valves - VDMA 18 mm</i>	139
• Valvole VDMA 18 mm ad azionamento elettropneumatico ..... <i>Solenoid actuated valves - VDMA 18 mm</i>	143
• Sottobasi per valvole VDMA 18 mm ..... <i>Manifolds for 18 mm VDMA valves</i>	149
• Valvole 18 mm ad azionamento pneumatico ..... <i>Pneumatically piloted valves - 18 mm</i>	154
• Valvole 18 mm ad azionamento elettropneumatico ..... <i>Solenoid actuated valves - 18 mm</i>	160
• Sottobasi per valvole 18 mm ..... <i>Manifolds for 18 mm spool valves</i>	168
• Valvole Namur ..... <i>Namur valves</i>	174
• Valvole ISO 5599/1 taglia 1 ..... <i>ISO 5599/1 valves - size 1</i>	179



	pagina <i>page</i>
• Sottobasi per valvole ISO 1 ..... <i>Sub-bases and manifolds for ISO 1 valves</i>	186
• Valvole ISO 5599/1 taglia 2 ..... <i>ISO 5599/1 valves - size 2</i>	192
• Sottobasi per valvole ISO 2 ..... <i>Sub-bases and manifolds for ISO 2 valves</i>	196



# microvalvole

microvalves



- Microvalvole a otturatore NC e NA  
*NC and NO poppet microvalves*
- Installazione in qualsiasi posizione  
*Installation in any position*
- Attacchi filettati M5 o raccordi automatici per tubo  $\varnothing 4$   
*M5 threaded ports or push-in fittings for  $\varnothing 4$  tube*
- Bassa forza di azionamento  
*Low actuating force*
- Versione con adattatore (foro  $\varnothing 22$ ) per montaggio a pannello  
*Version with adaptor for panel mounting (with  $\varnothing 22$  hole)*
- Esecuzioni speciali a richiesta  
*Special versions on request*



## Materiali

Corpo: alluminio 11S

Molla: INOX

Guarnizioni: NBR

Parti interne: ottone OT58

## Materials

Body: aluminium 11S

Spring: stainless steel

Seals: NBR

Internal parts: brass OT58

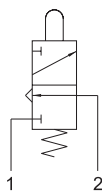
Diametro nominale <i>Nominal orifice</i>	2.5 mm
Portata nominale a 6 bar <i>Nominal flow rate at 6 bar</i>	100 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Forza di azionamento <i>Actuating force</i>	6 N
Fluido <i>Fluid</i>	Aria filtrata 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>



## 304 MA

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto), pulsante

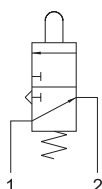
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom), tappet



## 314 MA

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (sotto), pulsante

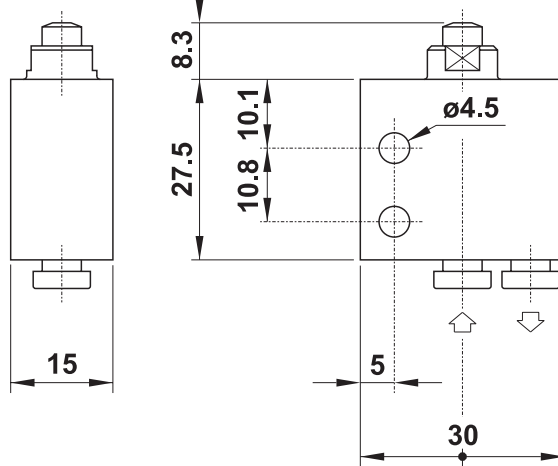
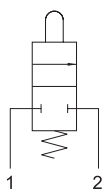
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the bottom), tappet



## 204 MA

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto), pulsante

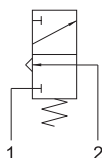
2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom), tappet



## 304 MB

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto), interfaccia per attuatore da pannello

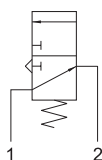
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom), actuator adaptor for panel mounting



## 314 MB

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (sotto), interfaccia per attuatore da pannello

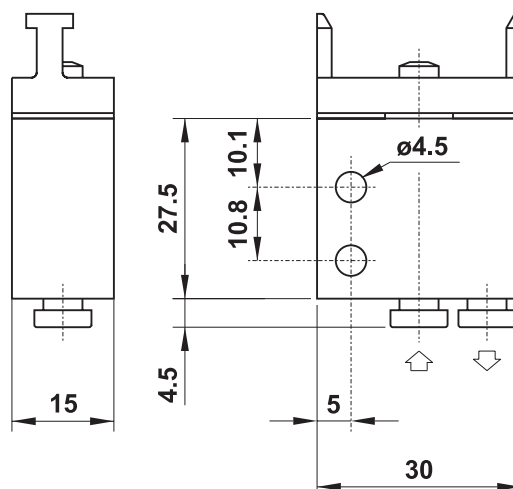
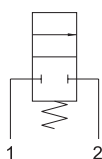
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the bottom), actuator adaptor for panel mounting



## 204 MB

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto), interfaccia per attuatore da pannello

2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom), actuator adaptor for panel mounting



# microvalvole

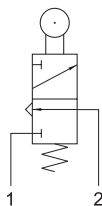
microvalves



## 304 MR

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
leva rullo

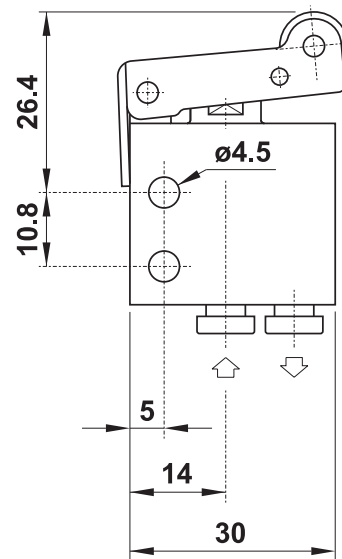
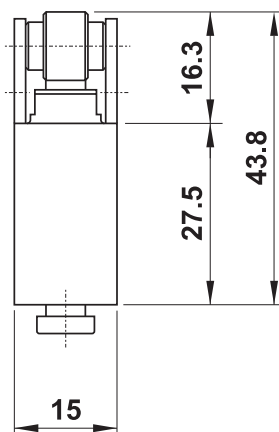
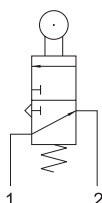
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
roller lever



## 314 MR

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (sotto),  
leva rullo

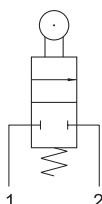
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
roller lever



## 204 MR

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
leva rullo

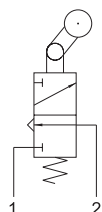
2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
roller lever



## 304 MS

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
leva unidirezionale

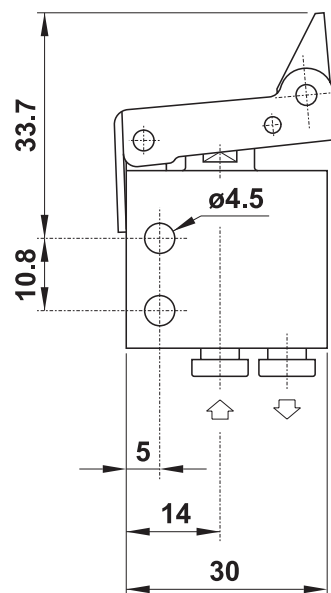
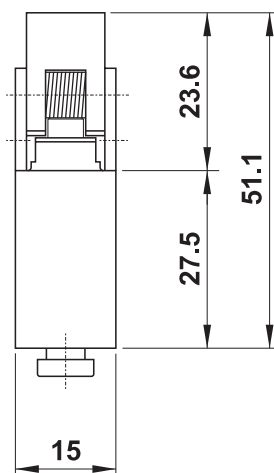
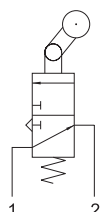
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
uni-directional lever



## 314 MS

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (sotto),  
leva unidirezionale

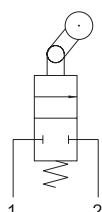
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
uni-directional lever



## 204 MS

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
leva unidirezionale

2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
uni-directional lever

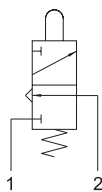




## 304 MV

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
pulsante passa parete

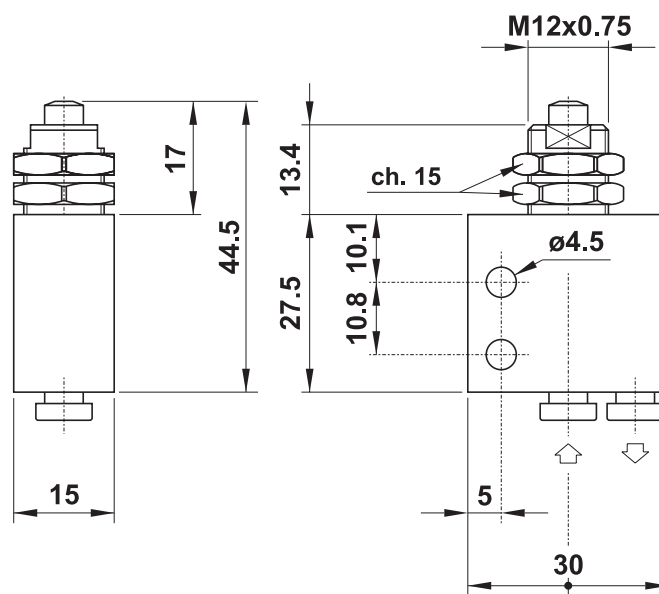
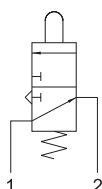
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
panel mount tappet



## 314 MV

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (sotto),  
pulsante passa parete

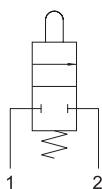
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
panel mount tappet



## 204 MV

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
pulsante passa parete

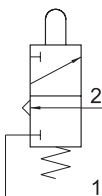
2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
panel mount tappet



## 304 MA UL

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (laterali),  
pulsante

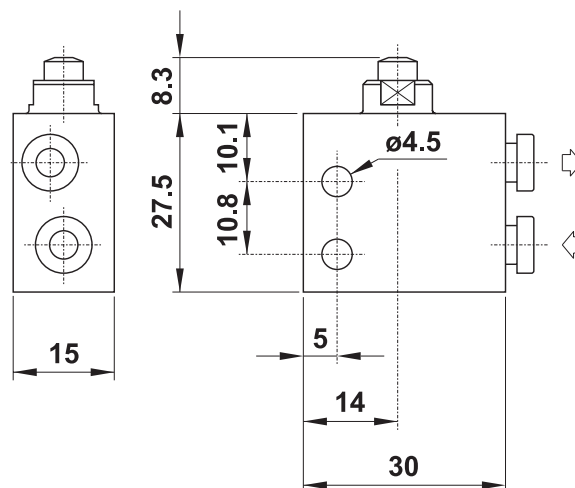
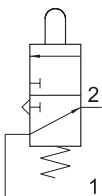
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
tappet



## 314 MA UL

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (laterali),  
pulsante

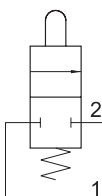
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the side),  
tappet



## 204 MA UL

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (laterali),  
pulsante

2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
tappet

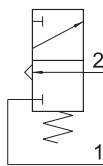




## 304 MB UL

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (lateral), interfaccia per attuatore da pannello

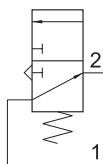
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side), actuator adaptor for panel mounting



## 314 MB UL

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (lateral), interfaccia per attuatore da pannello

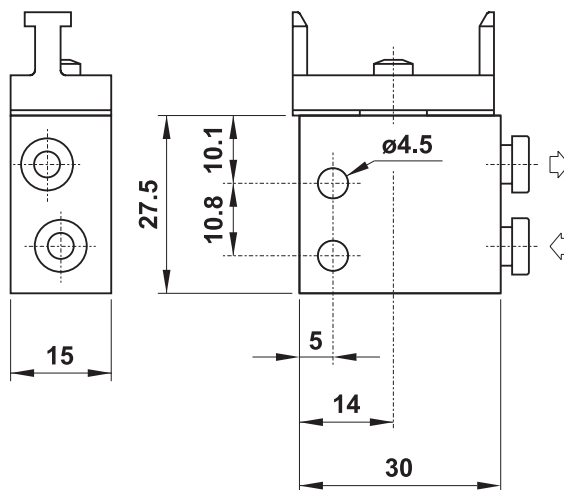
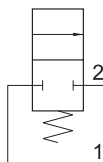
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the side), actuator adaptor for panel mounting



## 204 MB UL

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (lateral), interfaccia per attuatore da pannello

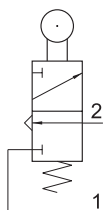
2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side), actuator adaptor for panel mounting



## 304 MR UL

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (lateral), leva rullo

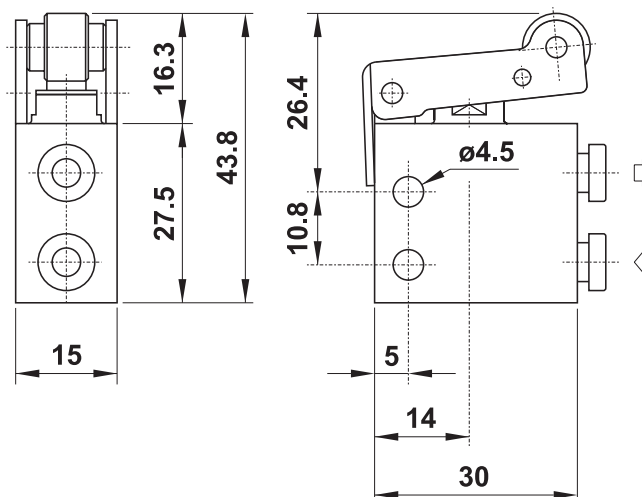
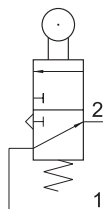
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side), roller lever



## 314 MR UL

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (lateral), leva rullo

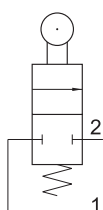
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the side), roller lever



## 204 MR UL

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (lateral), leva rullo

2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side), roller lever



# microvalvole

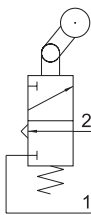
microvalves



## 304 MS UL

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (laterali),  
leva unidirezionale

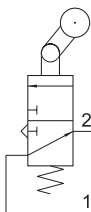
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
uni-directional lever



## 314 MS UL

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (laterali),  
leva unidirezionale

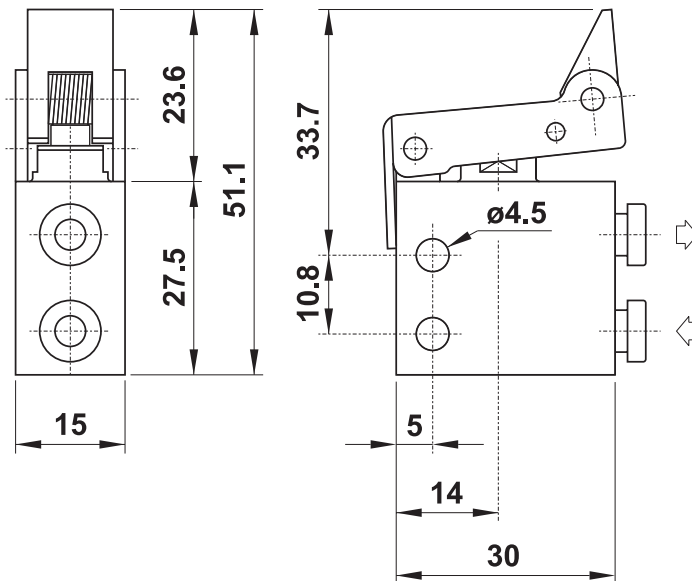
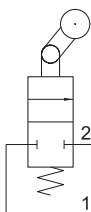
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the side),  
uni-directional lever



## 204 MS UL

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (laterali),  
leva unidirezionale

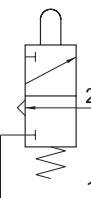
2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
uni-directional lever



## 304 MV UL

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (laterali),  
pulsante passa parete

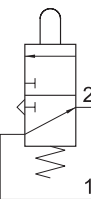
3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
panel mount tappet



## 314 MV UL

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (laterali),  
pulsante passa parete

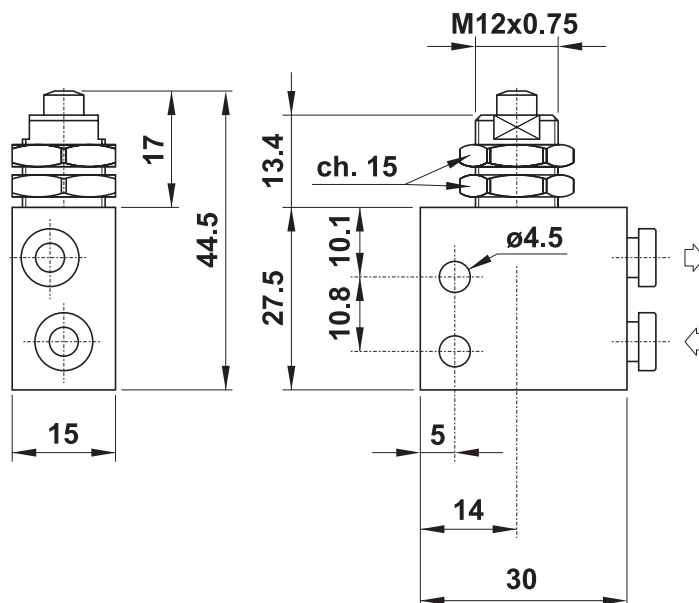
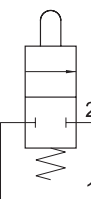
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the side),  
panel mount tappet



## 204 MV UL

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (laterali),  
pulsante passa parete

2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
panel mount tappet

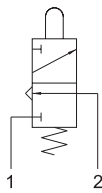




## 305 MA

3/2 NC attacchi filettati M5 (sotto),  
pulsante

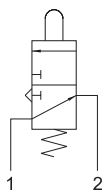
3/2 NC M5 threaded ports (on the bottom),  
tappet



## 315 MA

3/2 NA attacchi filettati M5 (sotto),  
pulsante

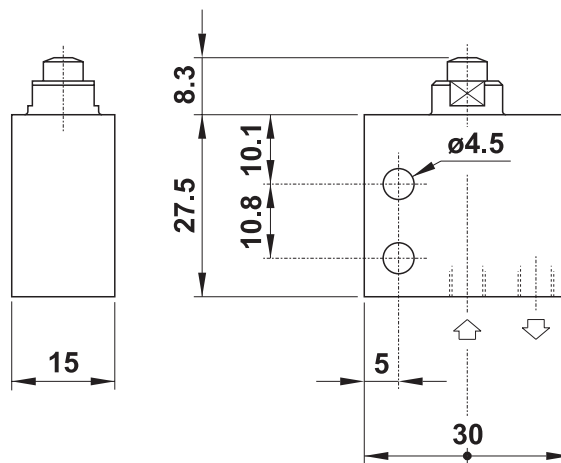
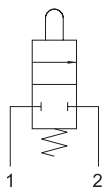
3/2 NO M5 threaded ports (on the bottom),  
tappet



## 205 MA

2/2 NC attacchi filettati M5 (sotto),  
pulsante

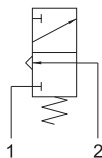
2/2 NC M5 threaded ports (on the bottom),  
tappet



## 305 MB

3/2 NC attacchi filettati M5 (sotto),  
interfaccia per attuatore da pannello

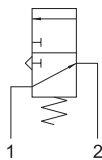
3/2 NC M5 threaded ports (on the bottom),  
actuator adaptor for panel mounting



## 315 MB

3/2 NA attacchi filettati M5 (sotto),  
interfaccia per attuatore da pannello

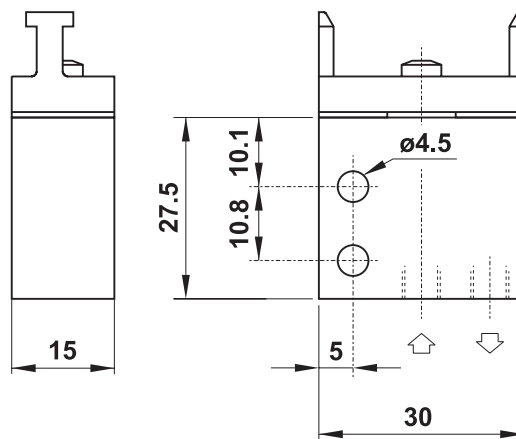
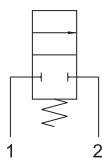
3/2 NO M5 threaded ports (on the bottom),  
actuator adaptor for panel mounting



## 205 MB

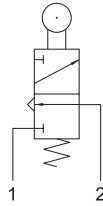
2/2 NC attacchi filettati M5 (sotto),  
interfaccia per attuatore da pannello

2/2 NC M5 threaded ports (on the bottom),  
actuator adaptor for panel mounting



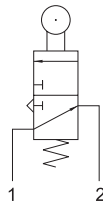
## 305 MR

3/2 NC attacchi filettati M5 (sotto),  
leva rullo  
3/2 NC M5 threaded ports (on the bottom),  
roller lever



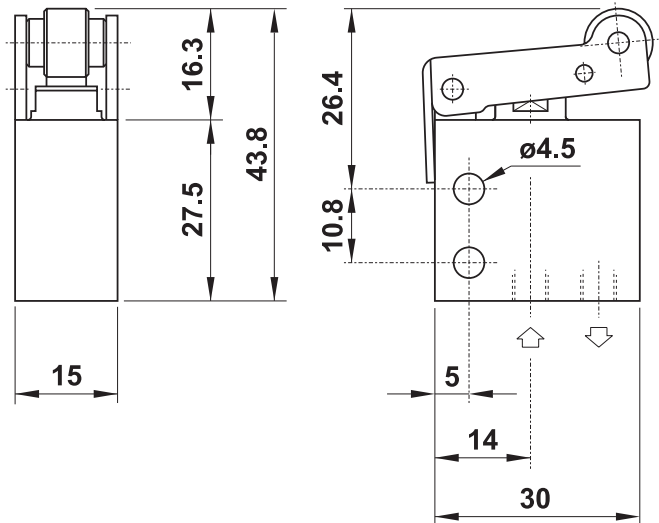
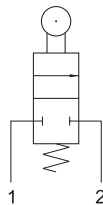
## 315 MR

3/2 NA attacchi filettati M5 (sotto),  
leva rullo  
3/2 NO M5 threaded ports (on the bottom),  
roller lever



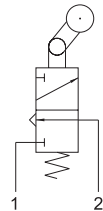
## 205 MR

2/2 NC attacchi filettati M5 (sotto),  
leva rullo  
2/2 NC M5 threaded ports (on the bottom),  
roller lever



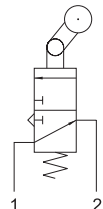
## 305 MS

3/2 NC attacchi filettati M5 (sotto),  
leva unidirezionale  
3/2 NC M5 threaded ports (on the bottom),  
uni-directional lever



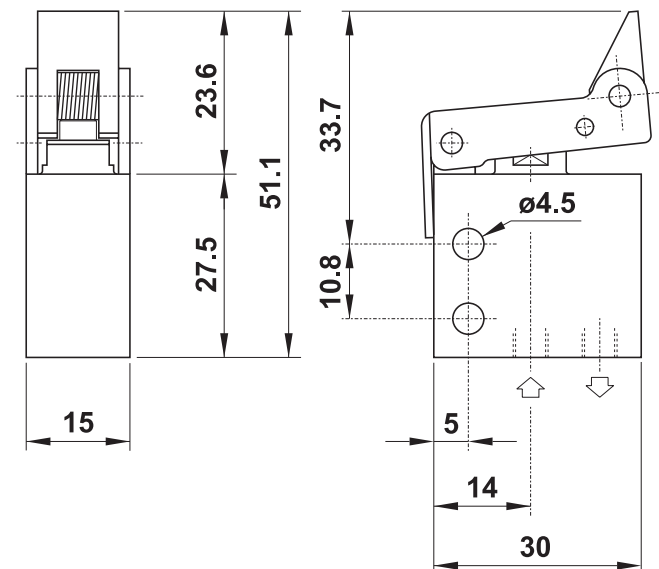
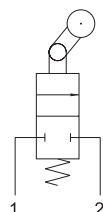
## 315 MS

3/2 NA attacchi filettati M5 (sotto),  
leva unidirezionale  
3/2 NO M5 threaded ports (on the bottom),  
uni-directional lever



## 205 MS

2/2 NC attacchi filettati M5 (sotto),  
leva unidirezionale  
2/2 NC M5 threaded ports (on the bottom),  
uni-directional lever

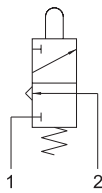




## 305 MV

3/2 NC attacchi filettati M5 (sotto),  
pulsante passa parete

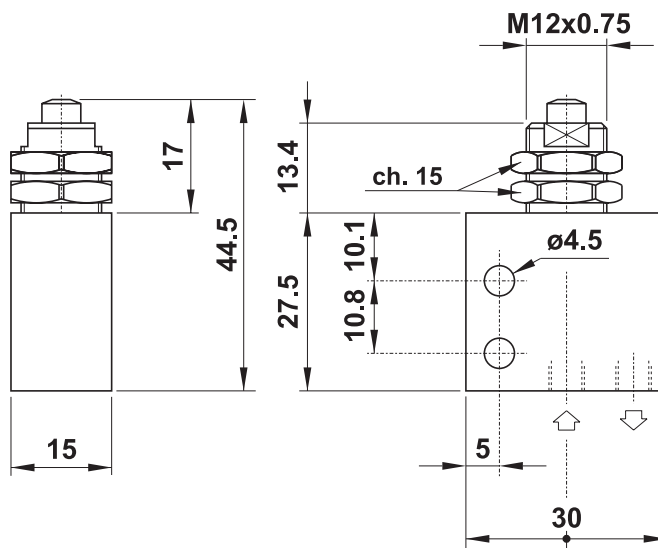
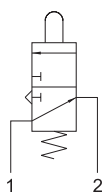
3/2 NC M5 threaded ports (on the bottom),  
panel mount tappet



## 315 MV

3/2 NA attacchi filettati M5 (sotto),  
pulsante passa parete

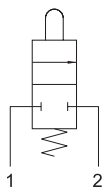
3/2 NO M5 threaded ports (on the bottom),  
panel mount tappet



## 205 MV

2/2 NC attacchi filettati M5 (sotto),  
pulsante passa parete

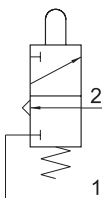
2/2 NC M5 threaded ports (on the bottom),  
panel mount tappet



## 305 MA UL

3/2 NC attacchi filettati M5 (lateral),  
pulsante

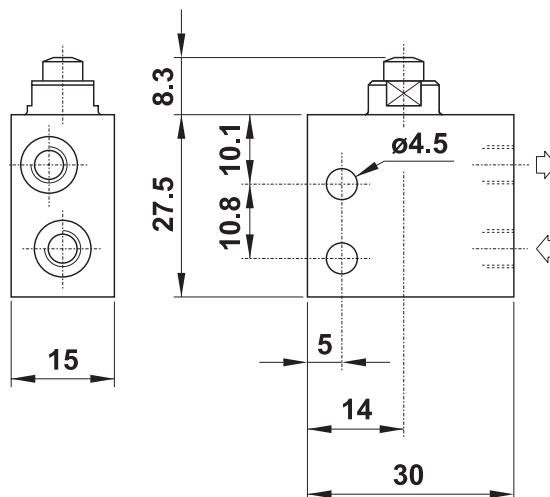
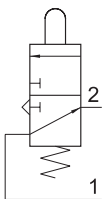
3/2 NC M5 threaded ports (on the side),  
tappet



## 315 MA UL

3/2 NA attacchi filettati M5 (lateral),  
pulsante

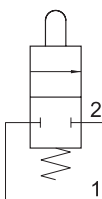
3/2 NO M5 threaded ports (on the side),  
tappet



## 205 MA UL

2/2 NC attacchi filettati M5 (lateral),  
pulsante

2/2 NC M5 threaded ports (on the side),  
tappet

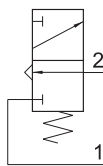




## 305 MB UL

3/2 NC attacchi filettati M5 (laterali),  
interfaccia per attuatore da pannello

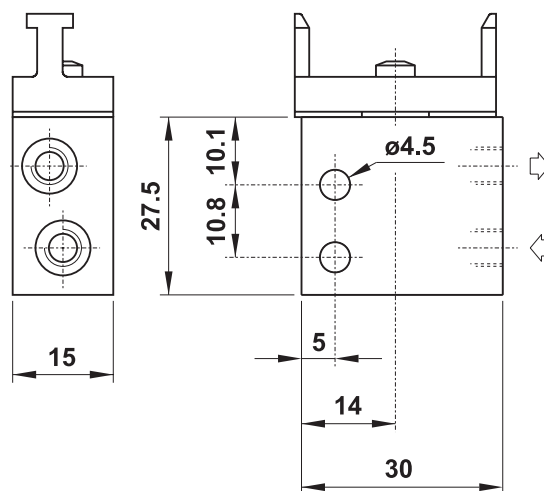
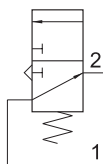
3/2 NC M5 threaded ports (on the side),  
actuator adaptor for panel mounting



## 315 MB UL

3/2 NA attacchi filettati M5 (laterali),  
interfaccia per attuatore da pannello

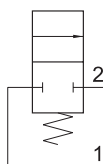
3/2 NO M5 threaded ports (on the side),  
actuator adaptor for panel mounting



## 205 MB UL

2/2 NC attacchi filettati M5 (laterali),  
interfaccia per attuatore da pannello

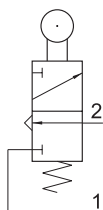
2/2 NC M5 threaded ports (on the side),  
actuator adaptor for panel mounting



## 305 MR UL

3/2 NC attacchi filettati M5 (laterali),  
leva rullo

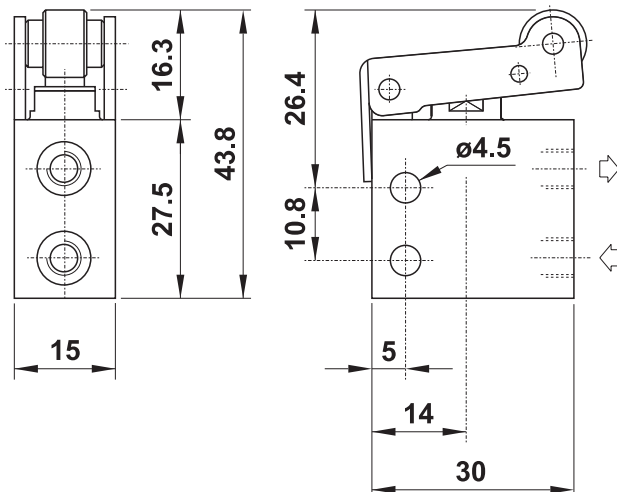
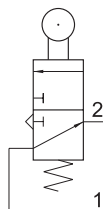
3/2 NC M5 threaded ports (on the side),  
roller lever



## 315 MR UL

3/2 NA attacchi filettati M5 (laterali),  
leva rullo

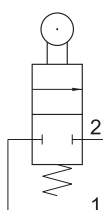
3/2 NO M5 threaded ports (on the side),  
roller lever



## 205 MR UL

2/2 NC attacchi filettati M5 (laterali),  
leva rullo

2/2 NC M5 threaded ports (on the side),  
roller lever



# microvalvole

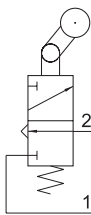
microvalves



## 305 MS UL

3/2 NC attacchi filettati M5 (laterali),  
leva unidirezionale

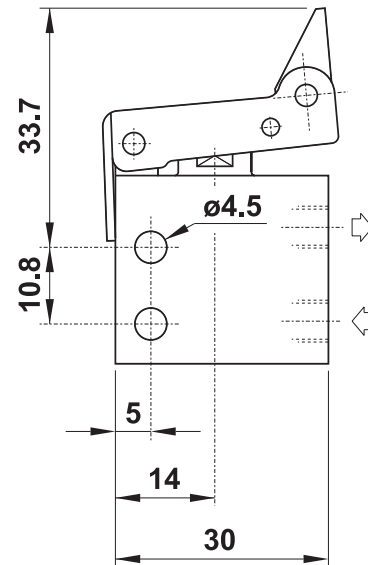
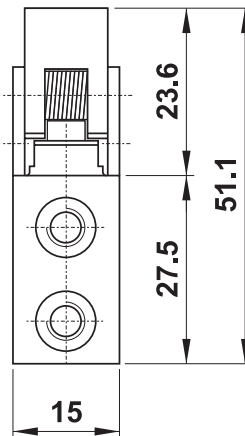
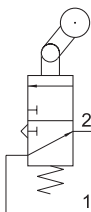
3/2 NC M5 threaded ports (on the side),  
uni-directional lever



## 315 MS UL

3/2 NA attacchi filettati M5 (laterali),  
leva unidirezionale

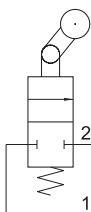
3/2 NO M5 threaded ports (on the side),  
uni-directional lever



## 205 MS UL

2/2 NC attacchi filettati M5 (laterali),  
leva unidirezionale

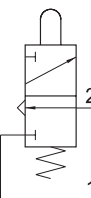
2/2 NC M5 threaded ports (on the side),  
uni-directional lever



## 305 MV UL

3/2 NC attacchi filettati M5 (laterali),  
pulsante passa parete

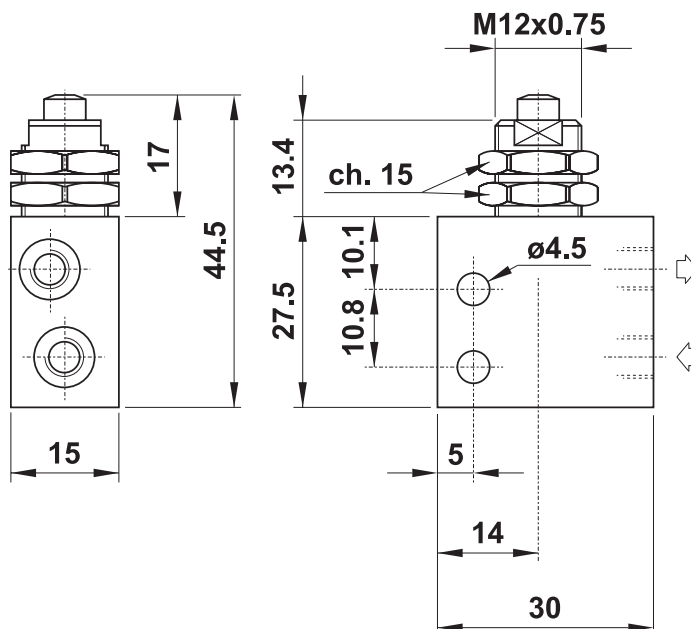
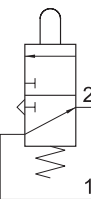
3/2 NC M5 threaded ports (on the side),  
panel mount tappet



## 315 MV UL

3/2 NA attacchi filettati M5 (laterali),  
pulsante passa parete

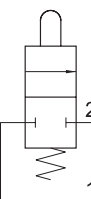
3/2 NO M5 threaded ports (on the side),  
panel mount tappet



## 205 MV UL

2/2 NC attacchi filettati M5 (laterali),  
pulsante passa parete

2/2 NC M5 threaded ports (on the side),  
panel mount tappet



# microvalvole

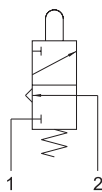
microvalves



## 304 MGx

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
tasto (4 colori - vedi schema)

3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.

In the part number replace the letter "x" with the colour reference of the push button.

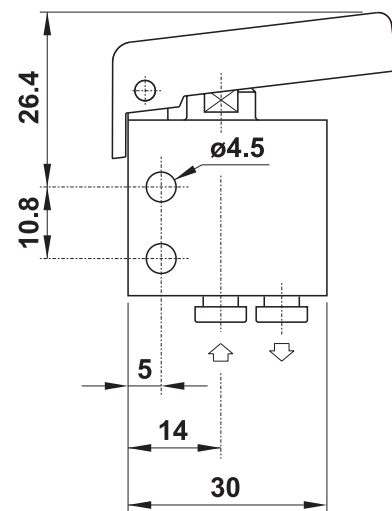
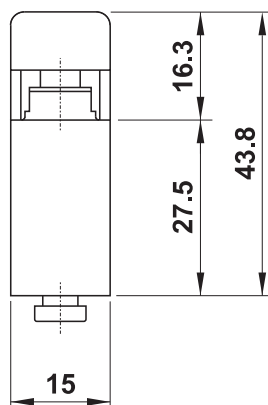
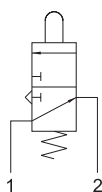
ROSSO - red	<b>R</b>
GIALLO - yellow	<b>G</b>
VERDE - green	<b>V</b>
NERO - black	<b>N</b>



## 314 MGx

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (sotto),  
tasto (4 colori - vedi schema)

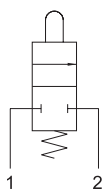
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
push button (4 colours - see explanation)



## 204 MGx

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (sotto),  
tasto (4 colori - vedi schema)

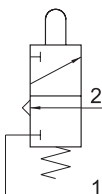
2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the bottom),  
push button (4 colours - see explanation)



## 304 MGx UL

3/2 NC raccordi automatici per tubo  $\varnothing 4$  (lateralì),  
tasto (4 colori - vedi schema)

3/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.

In the part number replace the letter "x" with the colour reference of the push button.

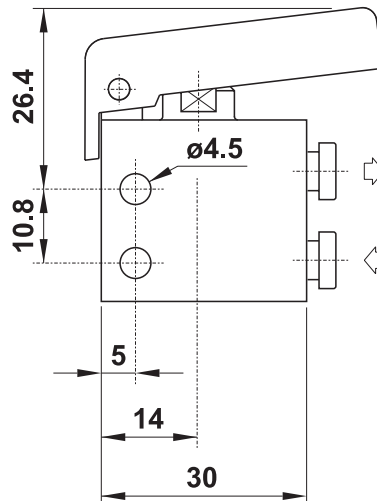
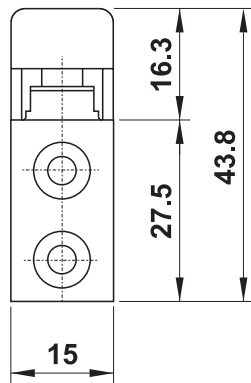
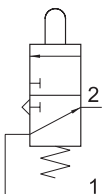
ROSSO - red	<b>R</b>
GIALLO - yellow	<b>G</b>
VERDE - green	<b>V</b>
NERO - black	<b>N</b>



## 314 MGx UL

3/2 NA raccordi automatici per tubo  $\varnothing 4$  (lateralì),  
tasto (4 colori - vedi schema)

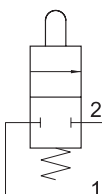
3/2 NO push-in fittings for  $\varnothing 4$  tube (ports on the side),  
push button (4 colours - see explanation)



## 204 MGx UL

2/2 NC raccordi automatici per tubo  $\varnothing 4$  (lateralì),  
tasto (4 colori - vedi schema)

2/2 NC push-in fittings for  $\varnothing 4$  tube (ports on the side),  
push button (4 colours - see explanation)



# microvalvole

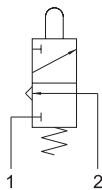
microvalves



## 305 MGx

3/2 NC attacchi filettati M5 (sotto),  
tasto (4 colori - vedi schema)

3/2 NC M5 threaded ports (on the bottom),  
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.

In the part number replace the letter "x" with the colour reference of the push button.

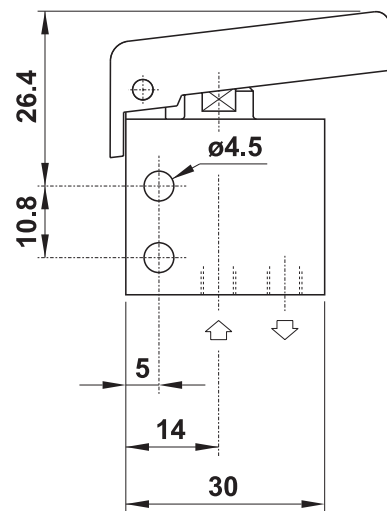
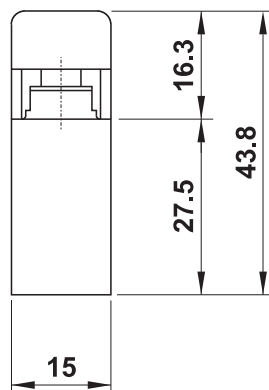
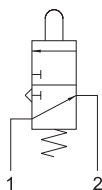
ROSSO - red	<b>R</b>
GIALLO - yellow	<b>G</b>
VERDE - green	<b>V</b>
NERO - black	<b>N</b>



## 315 MGx

3/2 NA attacchi filettati M5 (sotto),  
tasto (4 colori - vedi schema)

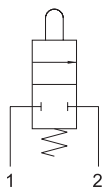
3/2 NO M5 threaded ports (on the bottom),  
push button (4 colours - see explanation)



## 205 MGx

2/2 NC attacchi filettati M5 (sotto),  
tasto (4 colori - vedi schema)

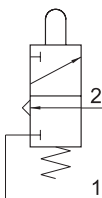
2/2 NC M5 threaded ports (on the bottom),  
push button (4 colours - see explanation)



## 305 MGx UL

3/2 NC attacchi filettati M5 (laterali),  
tasto (4 colori - vedi schema)

3/2 NC M5 threaded ports (on the side),  
push button (4 colours - see explanation)



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.

In the part number replace the letter "x" with the colour reference of the push button.

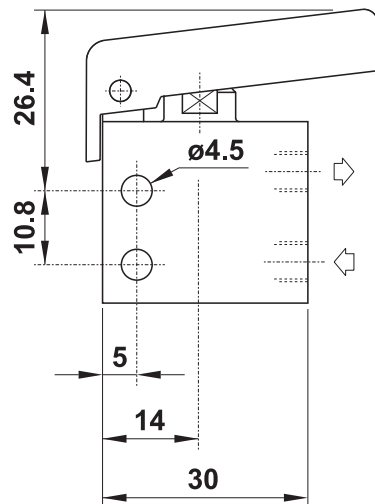
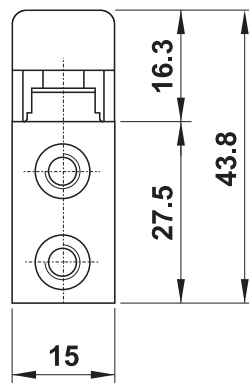
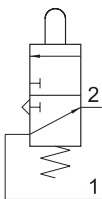
ROSSO - red	<b>R</b>
GIALLO - yellow	<b>G</b>
VERDE - green	<b>V</b>
NERO - black	<b>N</b>



## 315 MGx UL

3/2 NA attacchi filettati M5 (laterali),  
tasto (4 colori - vedi schema)

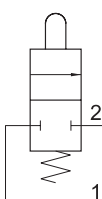
3/2 NO M5 threaded ports (on the side),  
push button (4 colours - see explanation)



## 205 MGx UL

2/2 NC attacchi filettati M5 (laterali),  
tasto (4 colori - vedi schema)

2/2 NC M5 threaded ports (on the side),  
push button (4 colours - see explanation)

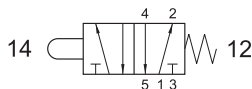


# microvalvole

microvalves



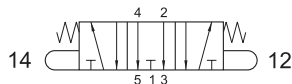
## 504 MB



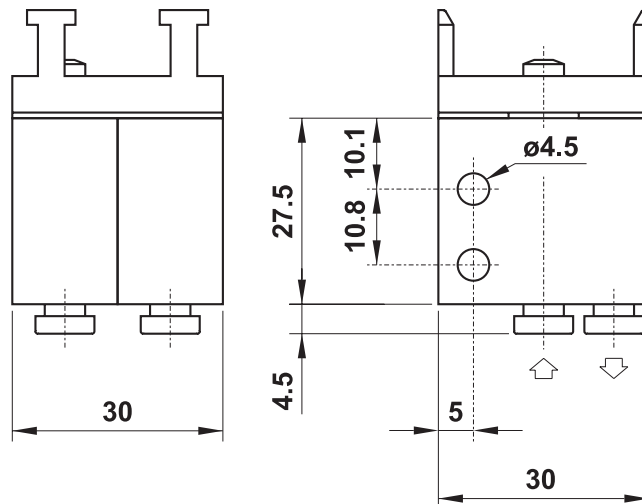
- 5/2 raccordi automatici per tubo  $\varnothing 4$  (sotto), interfaccia per attuatore da pannello
- 5/2 *push-in fittings for  $\varnothing 4$  tube (ports on the bottom), actuator adaptor for panel mounting*



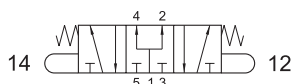
## 2.304 MB



- 5/3 centri aperti
- raccordi automatici per tubo  $\varnothing 4$  (sotto), interfaccia per attuatore da pannello
- 5/3 *open centres*
- push-in fittings for  $\varnothing 4$  tube (ports on the bottom), actuator adaptor for panel mounting*

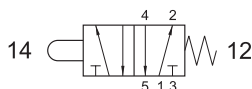


## 2.314 MB



- 5/3 centri in pressione
- raccordi automatici per tubo  $\varnothing 4$  (sotto), interfaccia per attuatore da pannello
- 5/3 *pressurized centres*
- push-in fittings for  $\varnothing 4$  tube (ports on the bottom), actuator adaptor for panel mounting*

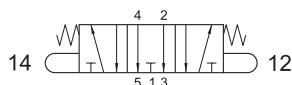
## 505 MB



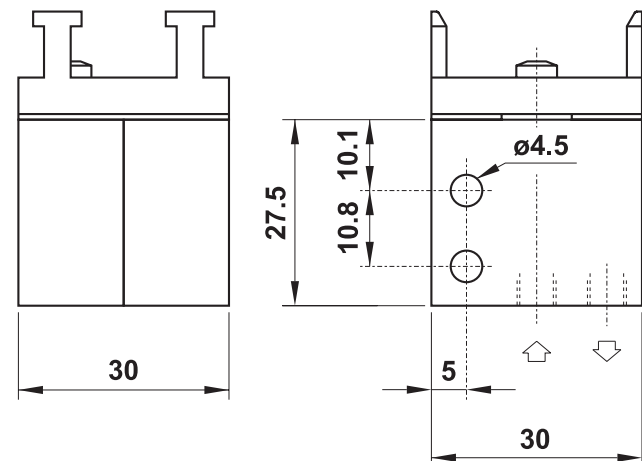
- 5/2 attacchi filettati M5 (sotto), interfaccia per attuatore da pannello
- 5/2 *M5 threaded ports (on the bottom), actuator adaptor for panel mounting*



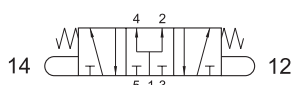
## 2.305 MB



- 5/3 centri aperti
- attacchi filettati M5 (sotto), interfaccia per attuatore da pannello
- 5/3 *open centres*
- M5 threaded ports (on the bottom), actuator adaptor for panel mounting*



## 2.315 MB



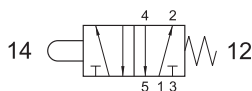
- 5/3 centri in pressione
- attacchi filettati M5 (sotto), interfaccia per attuatore da pannello
- 5/3 *pressurized centres*
- M5 threaded ports (on the bottom), actuator adaptor for panel mounting*

# microvalvole

microvalves



## 504 MB UL

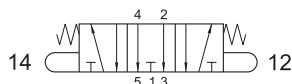


5/2 raccordi automatici per tubo  $\varnothing 4$  (laterali),  
interfaccia per attuatore da pannello

5/2 *push-in fittings for  $\varnothing 4$  tube (ports on the side),  
actuator adaptor for panel mounting*



## 2.304 MB UL



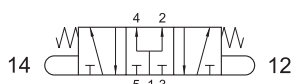
5/3 centri aperti

raccordi automatici per tubo  $\varnothing 4$  (laterali),  
interfaccia per attuatore da pannello

5/3 *open centres*

*push-in fittings for  $\varnothing 4$  tube (ports on the side),  
actuator adaptor for panel mounting*

## 2.314 MB UL

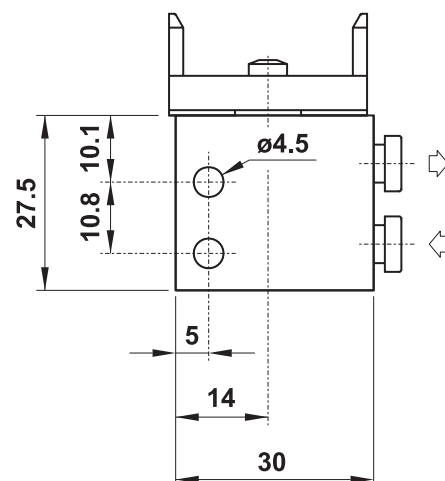
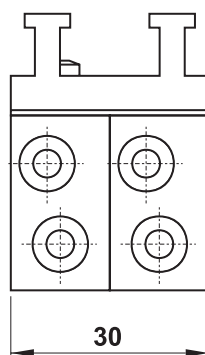


5/3 centri in pressione

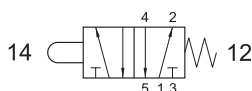
raccordi automatici per tubo  $\varnothing 4$  (laterali),  
interfaccia per attuatore da pannello

5/3 *pressurized centres*

*push-in fittings for  $\varnothing 4$  tube (ports on the side),  
actuator adaptor for panel mounting*



## 505 MB UL

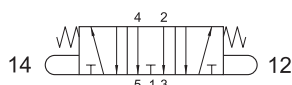


5/2 attacchi filettati M5 (laterali),  
interfaccia per attuatore da pannello

5/2 *M5 threaded ports (on the side),  
actuator adaptor for panel mounting*



## 2.305 MB UL



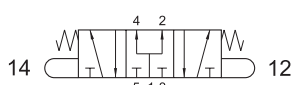
5/3 centri aperti

attacchi filettati M5 (laterali),  
interfaccia per attuatore da pannello

5/3 *open centres*

*M5 threaded ports (on the side),  
actuator adaptor for panel mounting*

## 2.315 MB UL

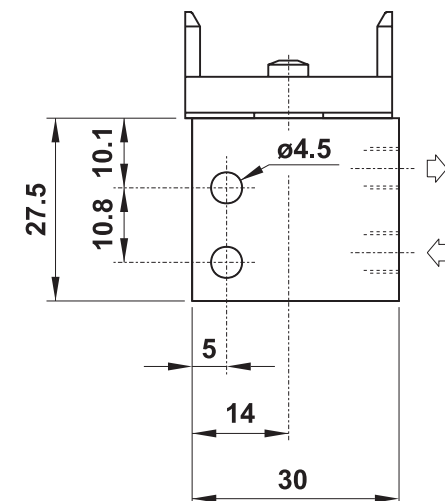
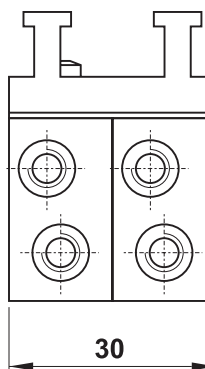


5/3 centri in pressione

attacchi filettati M5 (laterali),  
interfaccia per attuatore da pannello

5/3 *pressurized centres*

*M5 threaded ports (on the side),  
actuator adaptor for panel mounting*

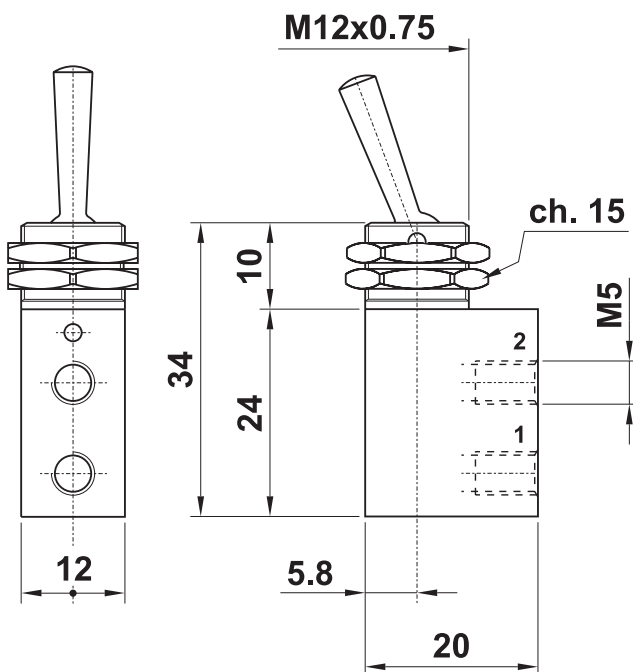
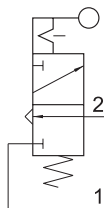


## 305 LL

3/2 NC attacchi filettati M5,  
leva in testa bistabile

materiale corpo: ottone nichelato

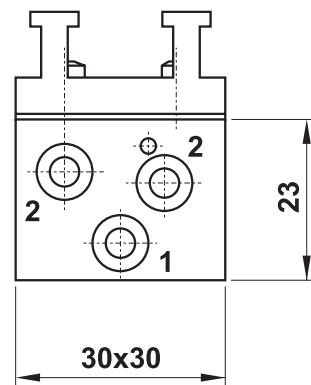
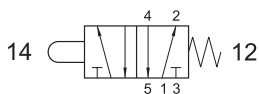
3/2 NC M5 threaded ports,  
bi-stable lever  
body material: nickel plated brass



## 504 MB CU

5/2 corpo unico  
raccordi automatici per tubo  $\varnothing 4$  (laterali),  
interfaccia per attuatore da pannello

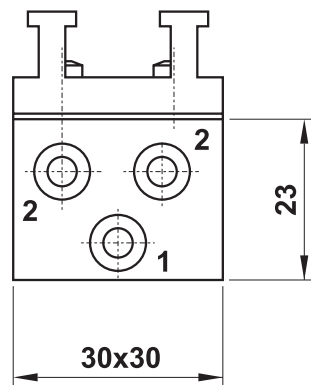
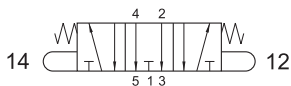
5/2 single valve body  
push-in fittings for  $\varnothing 4$  tube (ports on the side),  
actuator adaptor for panel mounting



## 2.304 MB CU

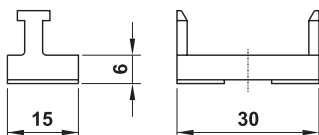
5/3 centri aperti, corpo unico  
raccordi automatici per tubo  $\varnothing 4$  (laterali),  
interfaccia per attuatore da pannello

5/3 open centres, single valve body  
push-in fittings for  $\varnothing 4$  tube (ports on the side),  
actuator adaptor for panel mounting



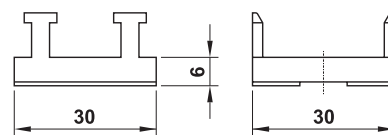
## 08.017.2

interfaccia singola per attuatore a  
pannello completa di viti  
single adaptor for panel mounting actuator,  
complete with fixing screws



## 08.015.2

interfaccia doppia per attuatore a  
pannello completa di viti  
double adaptor for panel mounting actuator,  
complete with fixing screws



# attuatori da pannello nuova serie

new series actuators for panel mounting

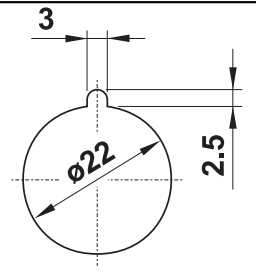


## pulsante protetto protected push button

codice code	colori standard standard colours
PR1/NRB	ROSSO, NERO e BIANCO (forniti assieme nel kit) red, black and white (supplied in kit)

Foro per montaggio a pannello  
con asola antirotazione

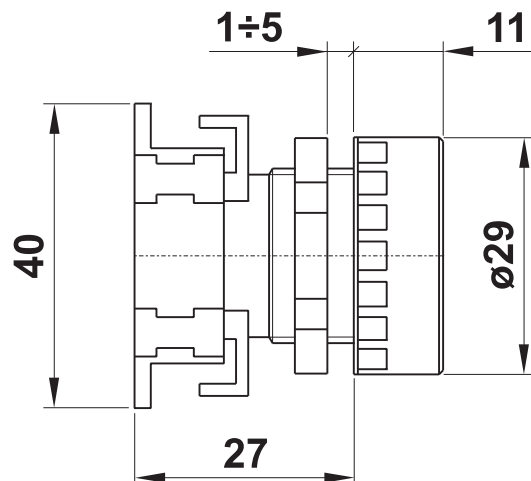
Panel mounting hole with antirotation  
feature



- I seguenti colori sono disponibili ordinandoli in aggiunta al kit standard  
The following colours can be ordered separately

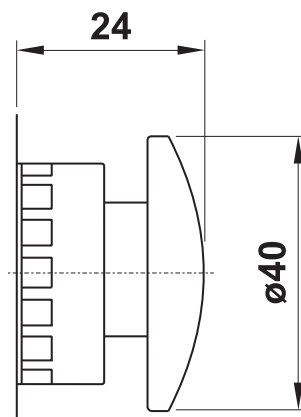
codice code	colore colour
DCV1	VERDE [green]
DCG1	GIALLO [yellow]
DCA1	AZZURRO [light blue]
DCB1	BIANCO [white]

codice code	colore colour
DCN1	NERO [black]
DCR1	ROSSO [red]



## fungo ø40 ø40 mushroom

codice code	descrizione description	colore colour
PF2/40	monostabile assiale [axial mono-stable]	ROSSO [red]
PF1/40	monostabile assiale [axial mono-stable]	NERO [black]
PFB2/40	sblocco a rotazione [turn to unlock]	ROSSO [red]

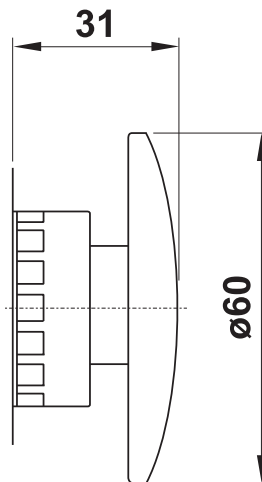


# attuatori da pannello nuova serie

*new series actuators for panel mounting*

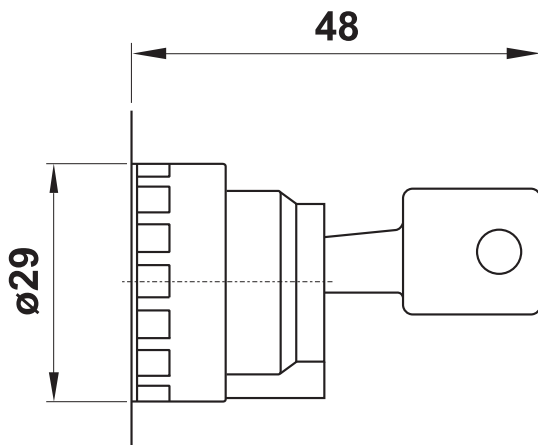


**fungo ø60**  
*ø60 palm*



codice <i>code</i>	descrizione <i>description</i>	colore <i>colour</i>
PFBA2	oscillante <i>[multi-directional]</i>	ROSSO <i>[red]</i>
PFB2/60	sblocco a rotazione <i>[turn to unlock]</i>	ROSSO <i>[red]</i>

**selettore a chiave 2 posizioni**  
*2 positions key selector*



codice <i>code</i>	funzione <i>function</i>	posizione di estrazione chiave <i>position to pull the key out</i>
SSC/CD-V	0 1	solo centrale <i>[only in central position]</i>
SSC/CD-Z	0 1	ambedue <i>[both positions]</i>
SSC/E-V	2 0 1	solo centrale <i>[only in central position]</i>

# attuatori da pannello nuova serie

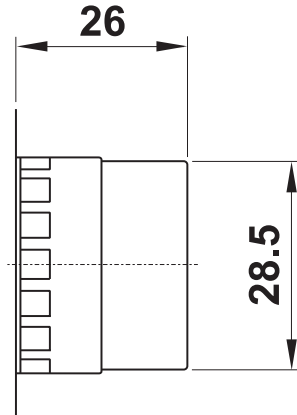
*new series actuators for panel mounting*



## selettore leva corta

*short lever selector*

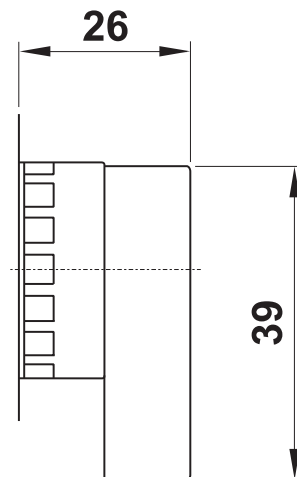
codice <i>code</i>	colore <i>colour</i>	funzione <i>function</i>
SS1/CD	NERO <i>black</i>	0 1
SS1/CD-R	NERO <i>black</i>	0 ← 1
SS1/E	NERO <i>black</i>	2 0 1
SS1/E-RC	NERO <i>black</i>	2 → 0 ← 1



## selettore leva lunga

*long lever selector*

codice <i>code</i>	colore <i>colour</i>	funzione <i>function</i>
SSP1/CD	NERO <i>black</i>	0 1
SSP1/CD/R	NERO <i>black</i>	0 ← 1
SSP1/E	NERO <i>black</i>	2 0 1
SSP1/E-RC	NERO <i>black</i>	2 → 0 ← 1



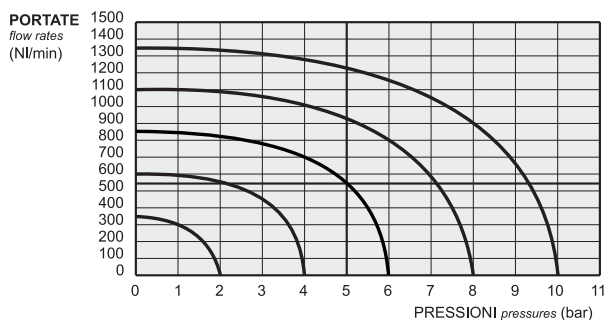
Materiale <i>Material</i>	Materiale plastico ad alte prestazioni <i>High performance plastic material</i>
Grado di protezione <i>Protection degree</i>	IP 55
Corrispondenza alle norme <i>According to norms</i>	EN 60947-5-1 VDE 0660 IEC 947-5
Temperatura di esercizio <i>Temperature range</i>	max +55°C
Durata meccanica <i>Mechanical life time</i>	500000 manovre [actuations]

# valvole ad azionamento meccanico

*mechanically actuated valves*



- Valvole a spola 3/2-5/2 con attacchi filettati G1/8"  
*3/2-5/2 spool valves with G1/8" threaded ports*
- Installazione in qualsiasi posizione  
*Installation in any position*
- Ampia gamma di azionamenti a comando diretto o servovalimentato  
*Comprehensive range of actuations, direct or servo-piloted*
- Esecuzioni speciali a richiesta  
*Special versions on request*



## 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>	5 mm	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	az. diretto <i>[direct actuation]</i>	az. servopilotato <i>[servo-piloted actuation]</i>
	max 10 bar max 1 MPa	2.5 ... 10 bar 0.25 ... 1 MPa
Forza di azionamento (ove non altrimenti indicato) <i>Actuating force (where not otherwise stated)</i>	az. diretto <i>[direct actuation]</i>	az. servopilotato <i>[servo-piloted actuation]</i>
	~ 40 N	~ 4 N
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>	

# valvole ad azionamento meccanico

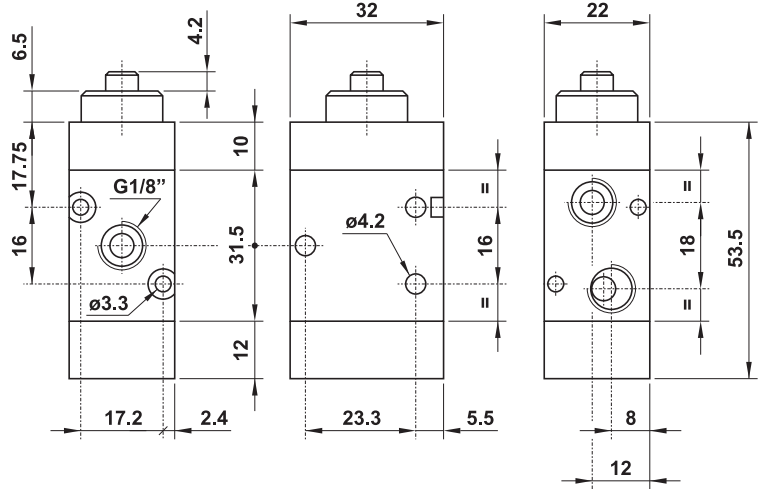
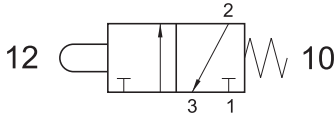
mechanically actuated valves



## 321 MP

3/2 1/8" puntale - ritorno a molla

3/2 1/8" tappet - spring return



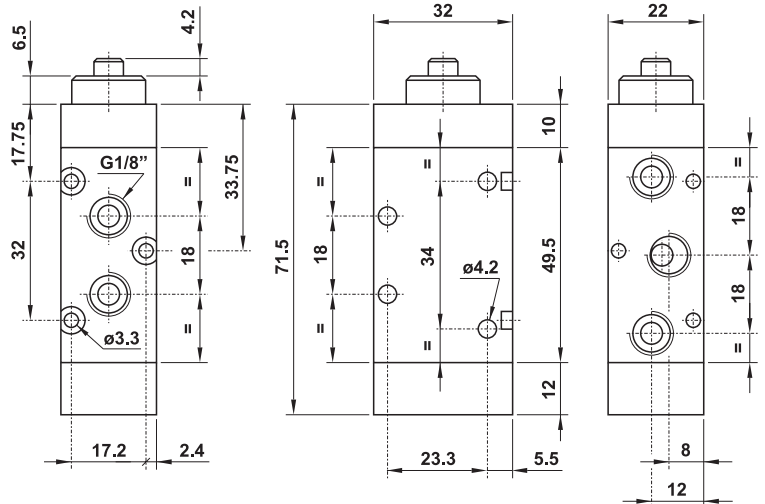
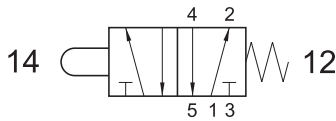
Forza di azionamento: 32.36 N

Actuating force: 32.36 N

## 521 MP

5/2 1/8" puntale - ritorno a molla

5/2 1/8" tappet - spring return



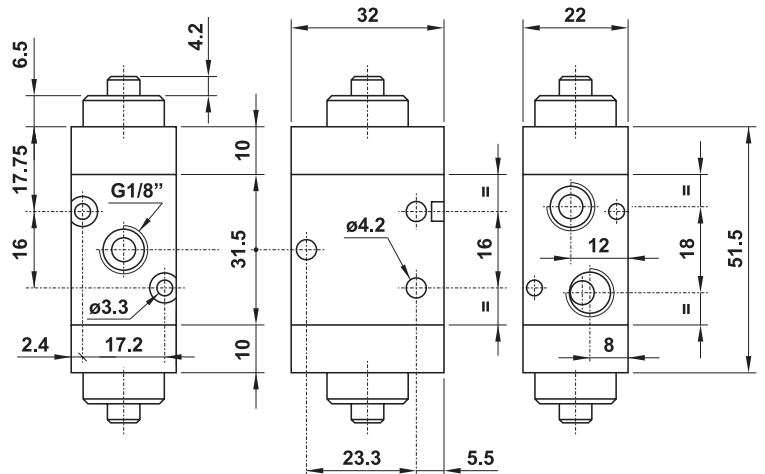
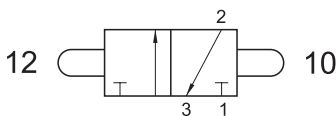
Forza di azionamento: 32.36 N

Actuating force: 32.36 N

## 321 2P

3/2 1/8" doppio puntale

3/2 1/8" double tappet



# valvole ad azionamento meccanico

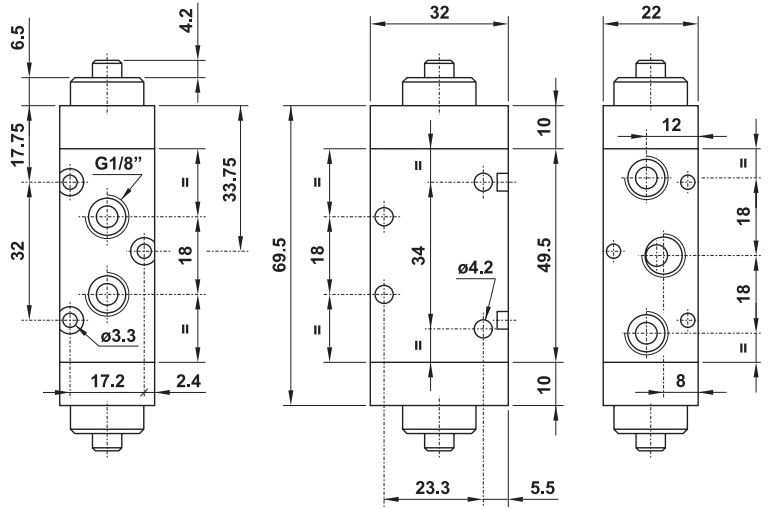
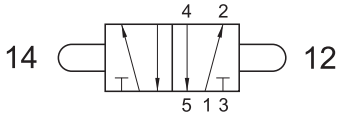
mechanically actuated valves



## 521 2P

5/2 1/8" doppio puntale

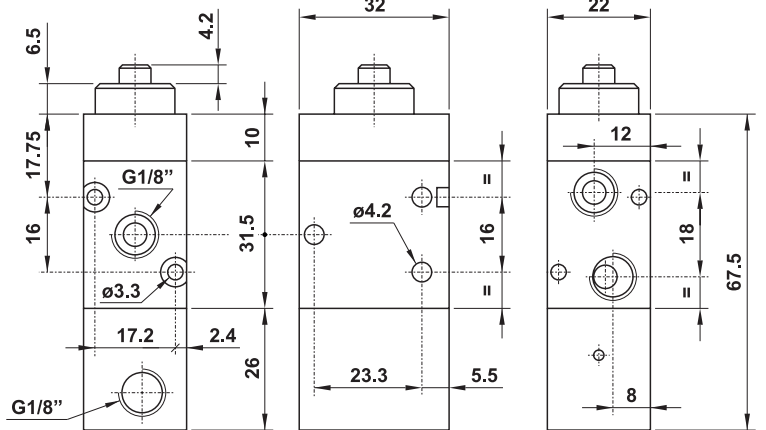
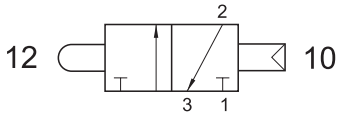
5/2 1/8" double tappet



## 321 CP

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

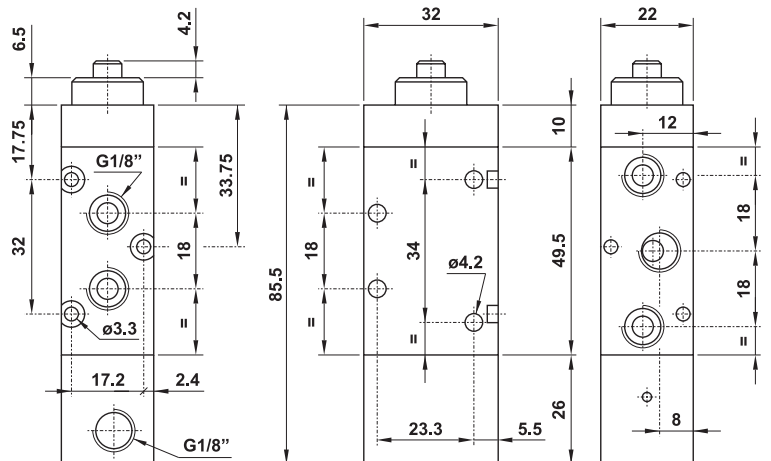
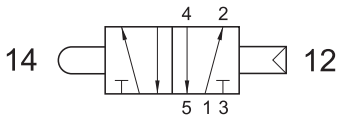
3/2 1/8" tappet - separate pneumatically piloted return



## 521 CP

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

5/2 1/8" tappet - separate pneumatically piloted return



# valvole ad azionamento meccanico

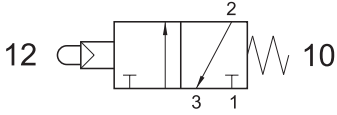
mechanically actuated valves



## 321 MPS

3/2 1/8" NC pulsante servopilotato - ritorno a molla

3/2 1/8" NC servo-piloted tappet - spring return



Forza di azionamento in funzione della pressione di alimentazione

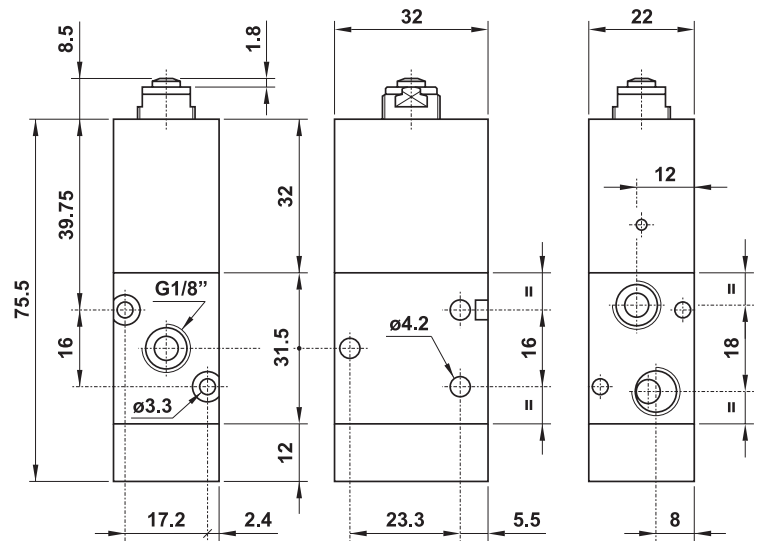
Actuating force related to inlet pressure

$P_1$ : 2 bar

$P_1$ : 10 bar

F: 4.5 N

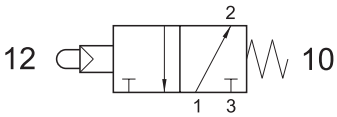
F: 14.2 N



## 321 MPSA

3/2 1/8" NA pulsante servopilotato - ritorno a molla

3/2 1/8" NO servo-piloted tappet - spring return



Forza di azionamento in funzione della pressione di alimentazione

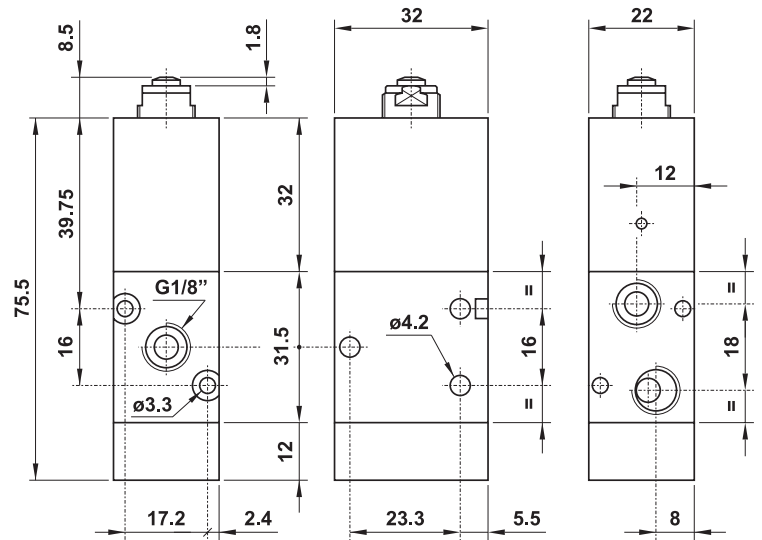
Actuating force related to inlet pressure

$P_1$ : 2 bar

$P_1$ : 10 bar

F: 4.5 N

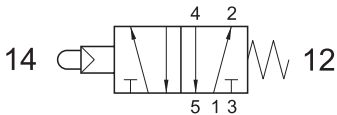
F: 14.2 N



## 521 MPS

5/2 1/8" pulsante servopilotato - ritorno a molla

5/2 1/8" servo-piloted tappet - spring return



Forza di azionamento in funzione della pressione di alimentazione

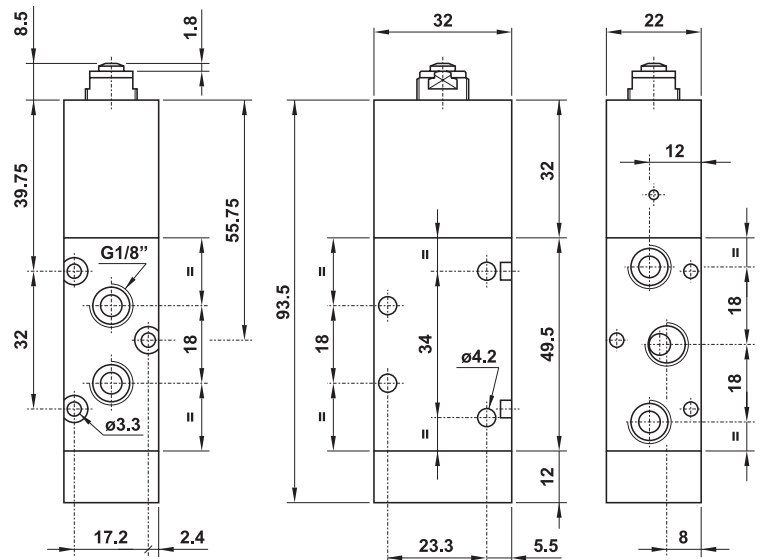
Actuating force related to inlet pressure

$P_1$ : 2 bar

$P_1$ : 10 bar

F: 4.5 N

F: 14.2 N



# valvole ad azionamento meccanico

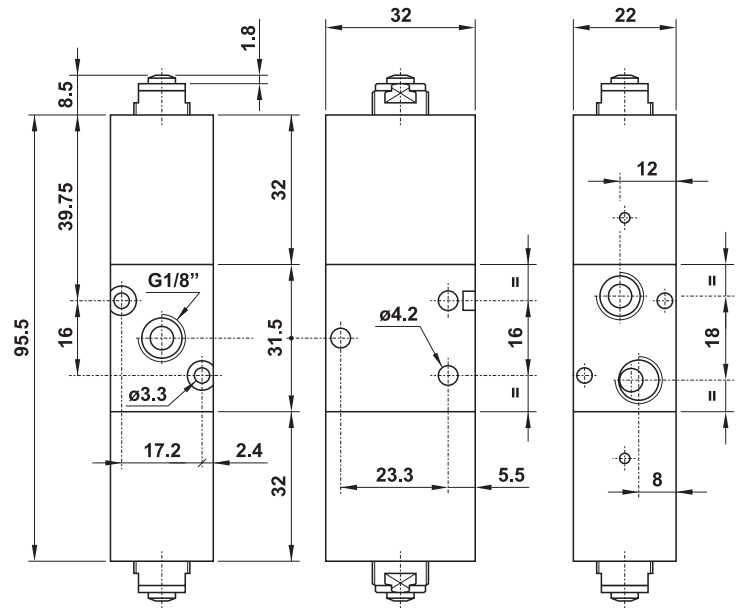
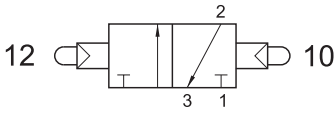
mechanically actuated valves



## 321 2PS

3/2 1/8" doppio pulsante servopilotato

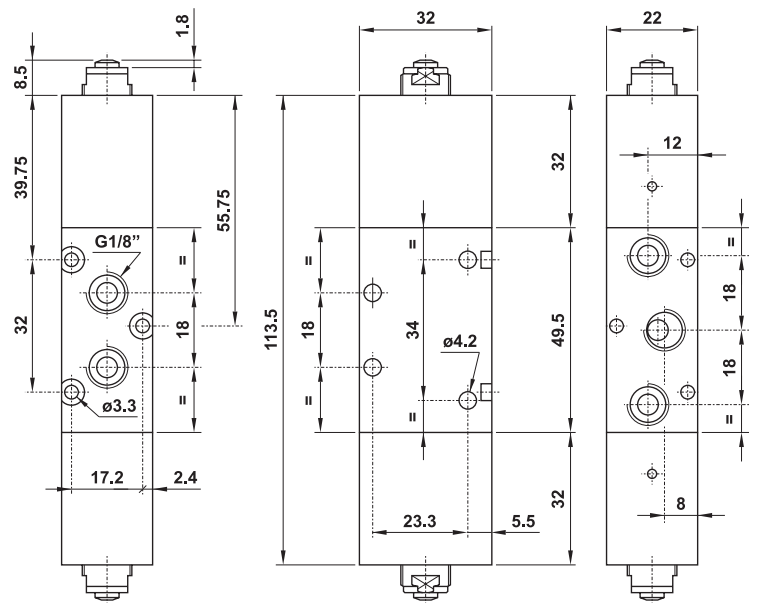
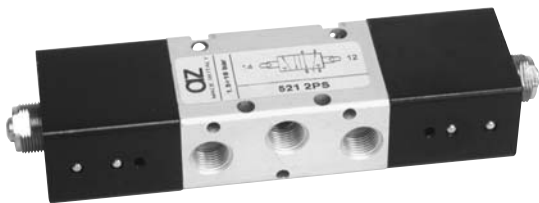
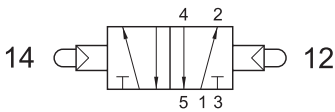
3/2 1/8" double servo-piloted tappet



## 521 2PS

5/2 1/8" doppio pulsante servopilotato

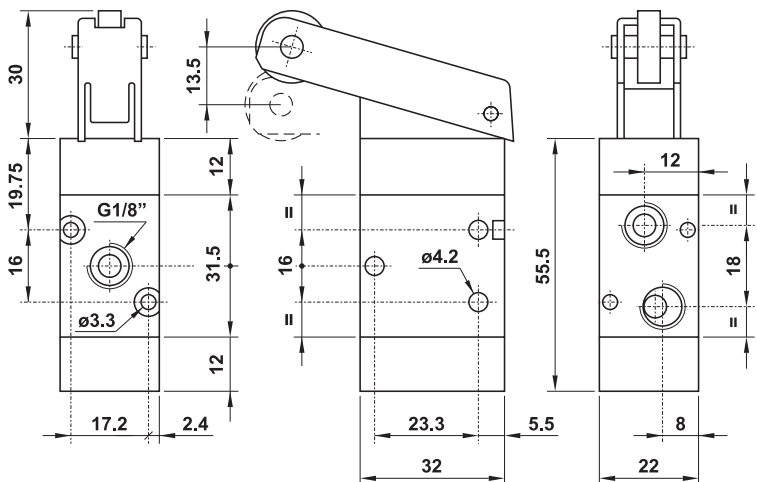
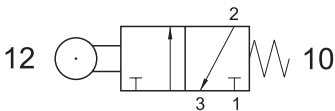
5/2 1/8" double servo-piloted tappet



## 321 MR

3/2 1/8" leva rullo - ritorno a molla

3/2 1/8" roller lever - spring return



Forza di azionamento: 9.81 N

Actuating force: 9.81 N



# valvole ad azionamento meccanico

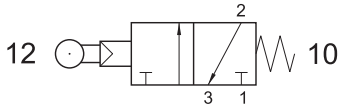
mechanically actuated valves



## 321 MRS

3/2 1/8" NC leva rullo servopilotata - ritorno a molla

3/2 1/8" NC servo-piloted roller lever - spring return



Forza di azionamento in funzione della pressione di alimentazione

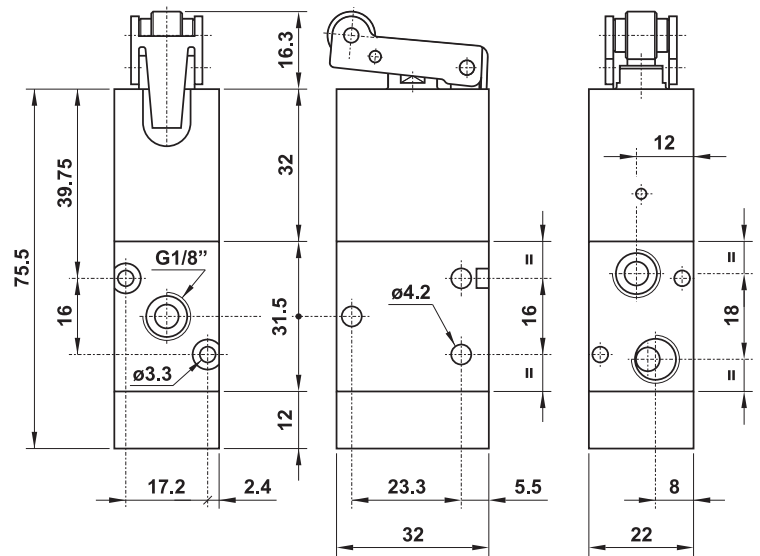
Actuating force related to inlet pressure

$P_1$ : 2 bar

$P_1$ : 10 bar

F: 3.6 N

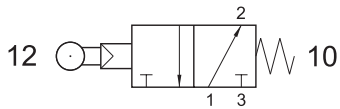
F: 11.4 N



## 321 MRSA

3/2 1/8" NA leva rullo servopilotata - ritorno a molla

3/2 1/8" NO servo-piloted roller lever - spring return



Forza di azionamento in funzione della pressione di alimentazione

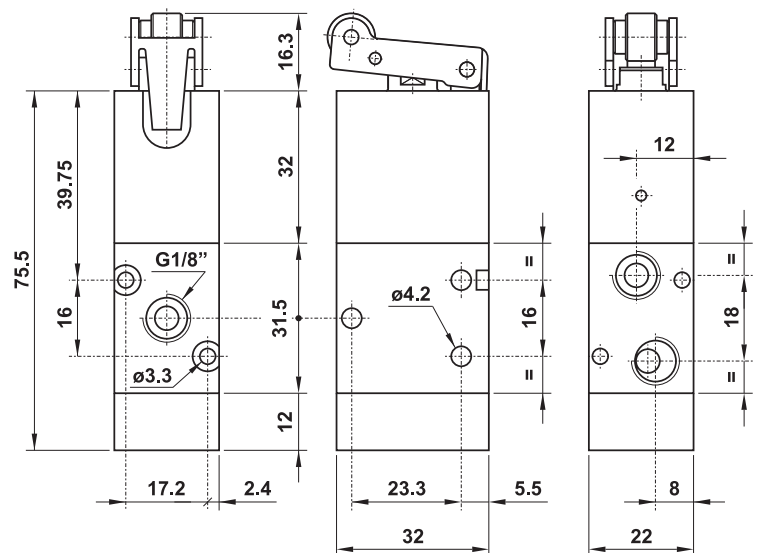
Actuating force related to inlet pressure

$P_1$ : 2 bar

$P_1$ : 10 bar

F: 3.6 N

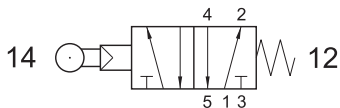
F: 11.4 N



## 521 MRS

5/2 1/8" leva rullo servopilotata - ritorno a molla

5/2 1/8" servo-piloted roller lever - spring return



Forza di azionamento in funzione della pressione di alimentazione

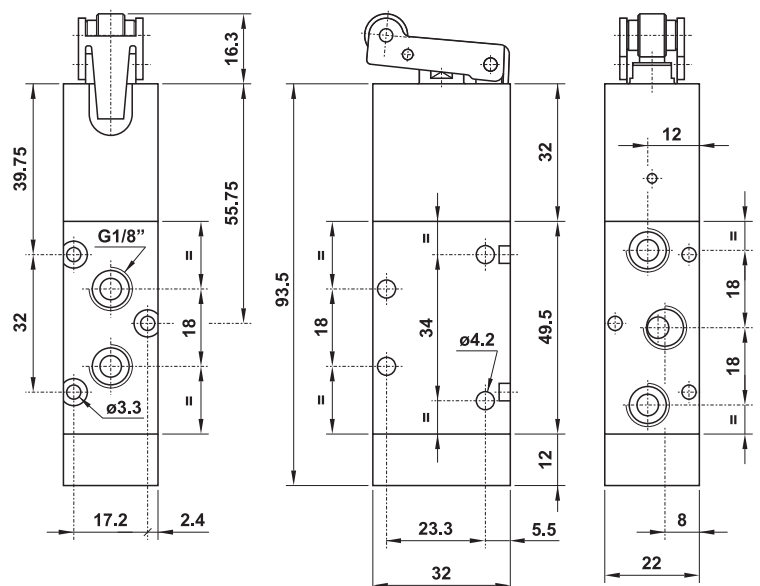
Actuating force related to inlet pressure

$P_1$ : 2 bar

$P_1$ : 10 bar

F: 3.6 N

F: 11.4 N



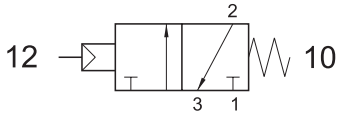
# valvole ad azionamento meccanico

mechanically actuated valves



## 321 MN

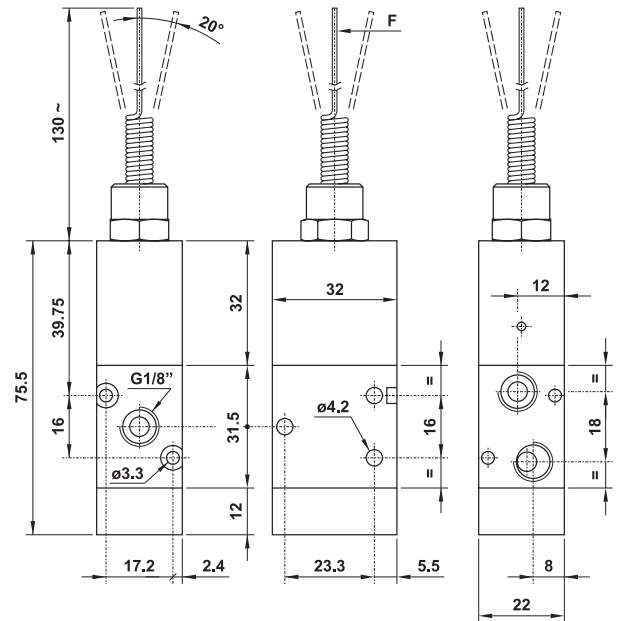
3/2 1/8" NC antenna servopilotata - ritorno a molla  
3/2 1/8" NC servo-piloted whisker - spring return



Forza di azionamento in funzione della pressione di alimentazione

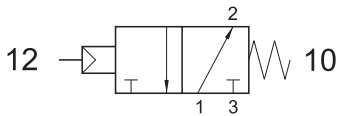
Actuating force related to inlet pressure

$P_1$ : 2 bar       $P_1$ : 10 bar  
 $F$ : 0.3 N       $F$ : 0.8 N



## 321 MNA

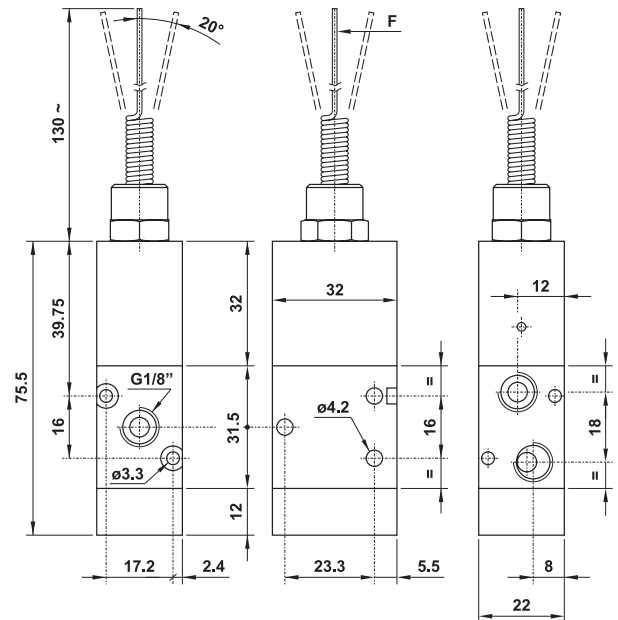
3/2 1/8" NA antenna servopilotata - ritorno a molla  
3/2 1/8" NO servo-piloted whisker - spring return



Forza di azionamento in funzione della pressione di alimentazione

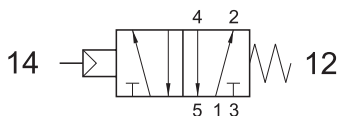
Actuating force related to inlet pressure

$P_1$ : 2 bar       $P_1$ : 10 bar  
 $F$ : 0.3 N       $F$ : 0.8 N



## 521 MN

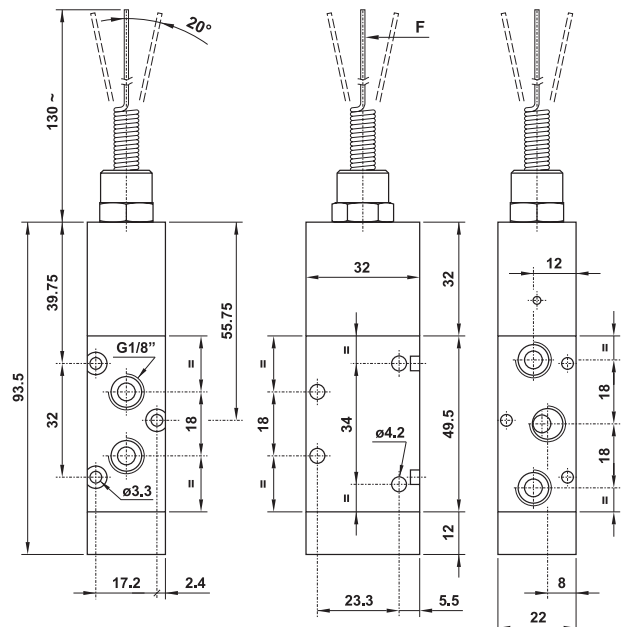
5/2 1/8" antenna servopilotata - ritorno a molla  
5/2 1/8" servo-piloted whisker - spring return



Forza di azionamento in funzione della pressione di alimentazione

Actuating force related to inlet pressure

$P_1$ : 2 bar       $P_1$ : 10 bar  
 $F$ : 0.3 N       $F$ : 0.8 N



# valvole ad azionamento manuale

manually 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*
- Installazione in qualsiasi posizione  
*Installation in any position*
- Ampia gamma di azionamenti  
*Comprehensive range of actuations*
- Valvole a leva e turetto: filetto per montaggio a pannello M18x1.5  
*Push/pull and lever valves: thread for panel mounting M18x1.5*
- Versione per attuatore da pannello (foro ø22)  
*Version for actuator for panel mounting (with ø22 hole)*
- Esecuzioni speciali a richiesta  
*Special versions on request*



## Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

## Materials

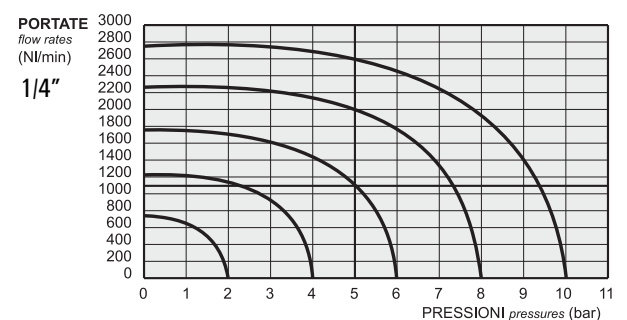
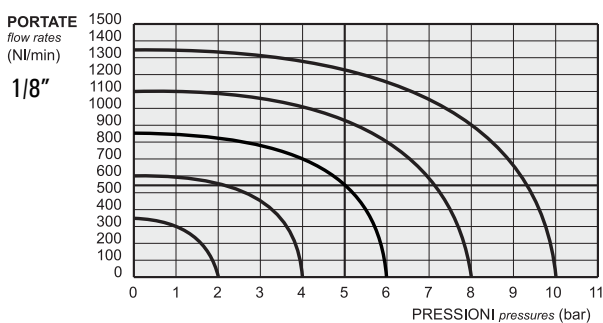
Body: aluminium 11S

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>		azionam. diretto <i>direct actuation</i>		az. servopilotato <i>servo-piloted actuation</i>	
		max 10 bar max 1 MPa		2.5 ... 10 bar 0.25 ... 1 MPa	
Forza di azionamento <i>Actuating force</i>	1/8" monost. [1/8" monost.]	1/4" monost. [1/4" monost.]	1/8" bistabile [1/8" bi-stable]	1/4" bistabile [1/4" bi-stable]	
	15 N		20 N		10 N
Fluido <i>Fluid</i>		Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>			

# valvole ad azionamento manuale

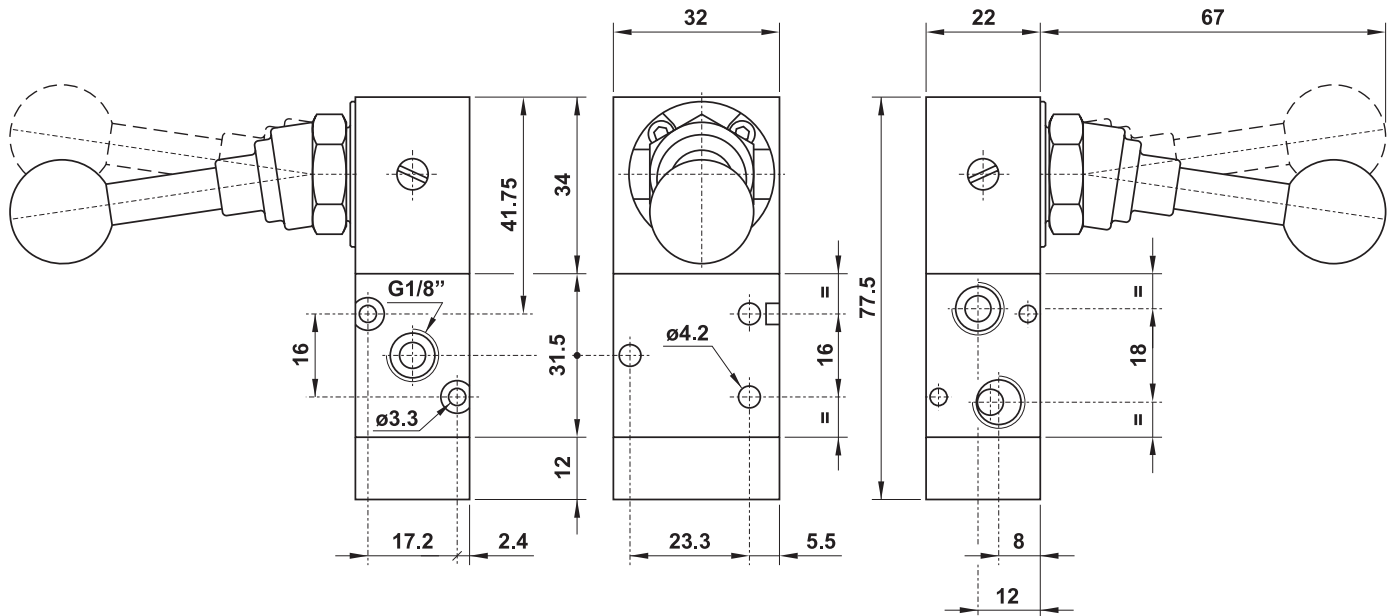
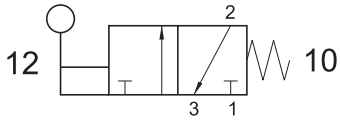
manually actuated valves



## 321 ML90

3/2 1/8" leva 90° - ritorno a molla

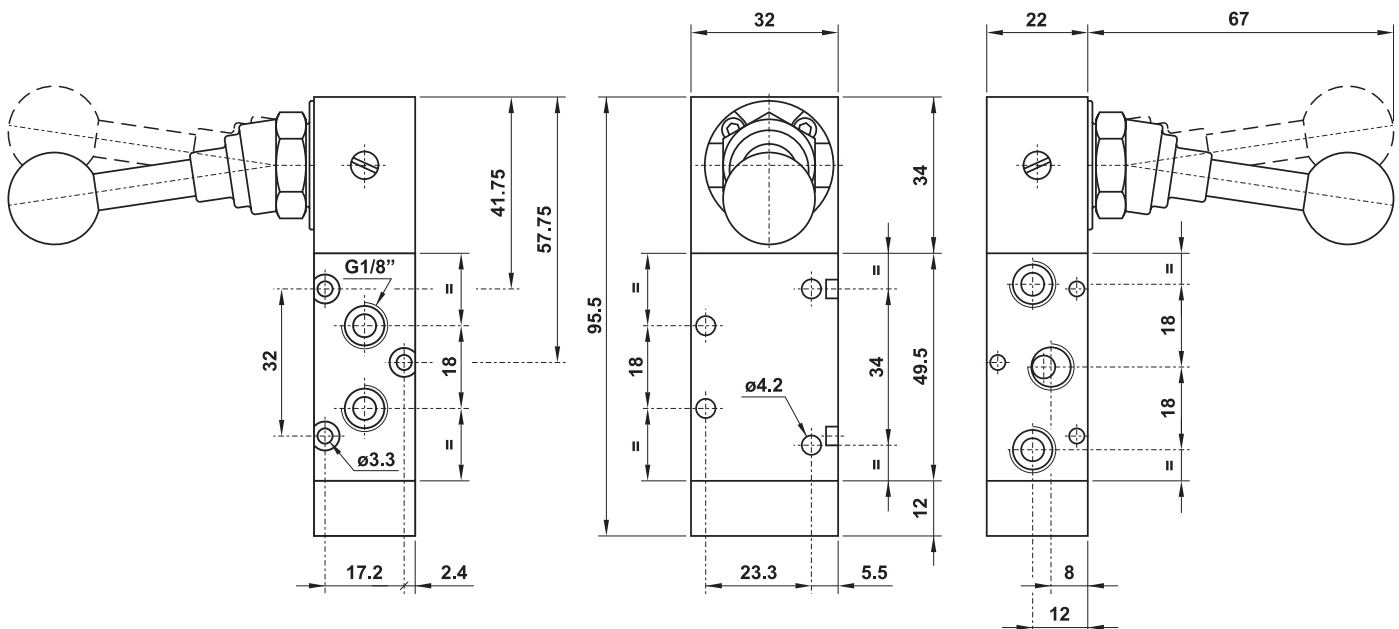
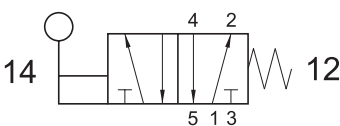
3/2 1/8" 90° lever - spring return



## 521 ML90

5/2 1/8" leva 90° - ritorno a molla

5/2 1/8" 90° lever - spring return



# valvole ad azionamento manuale

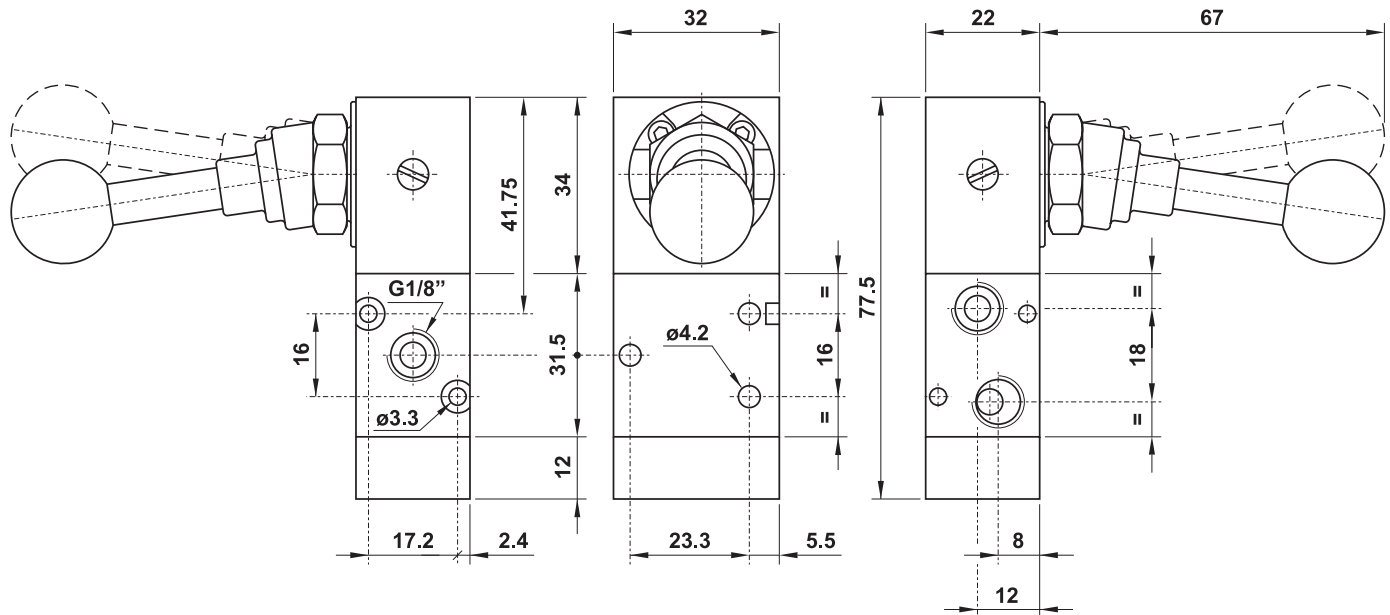
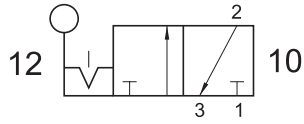
manually actuated valves



## 321 LL90

3/2 1/8" leva 90° bistabile

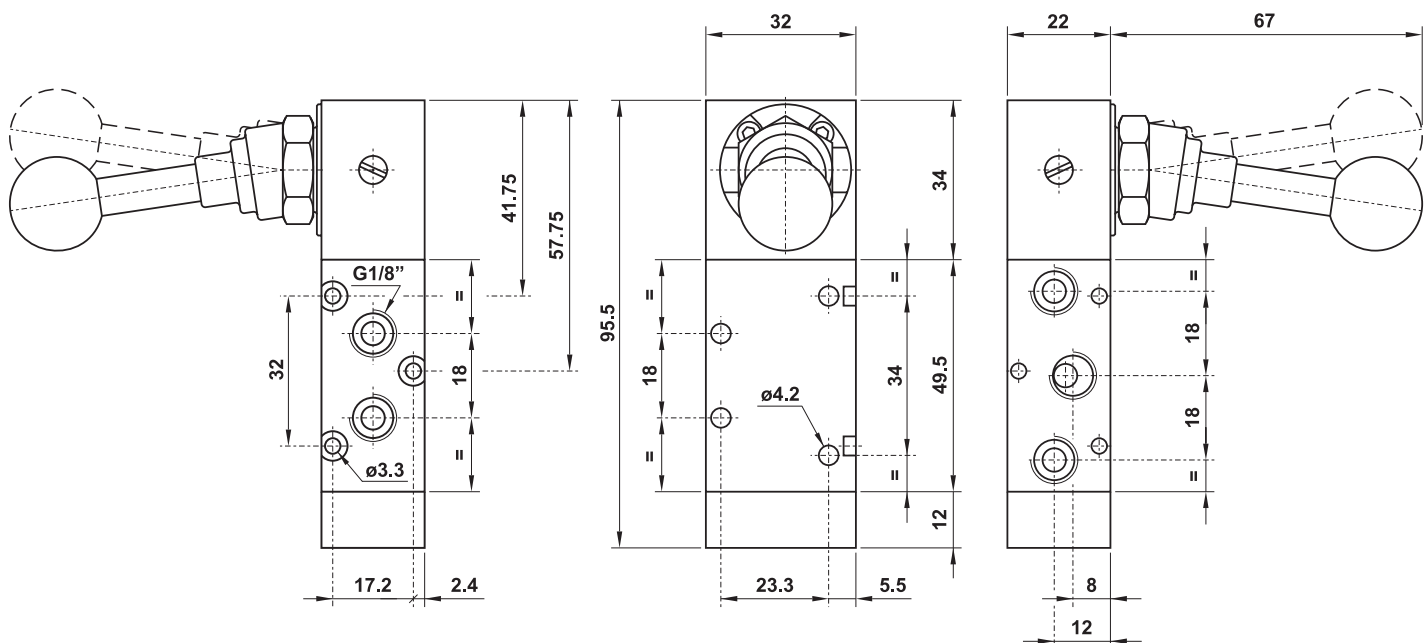
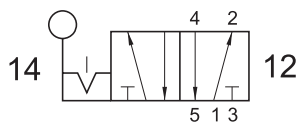
3/2 1/8" 90° bi-stable lever



## 521 LL90

5/2 1/8" leva 90° bistabile

5/2 1/8" 90° bi-stable lever



# valvole ad azionamento manuale

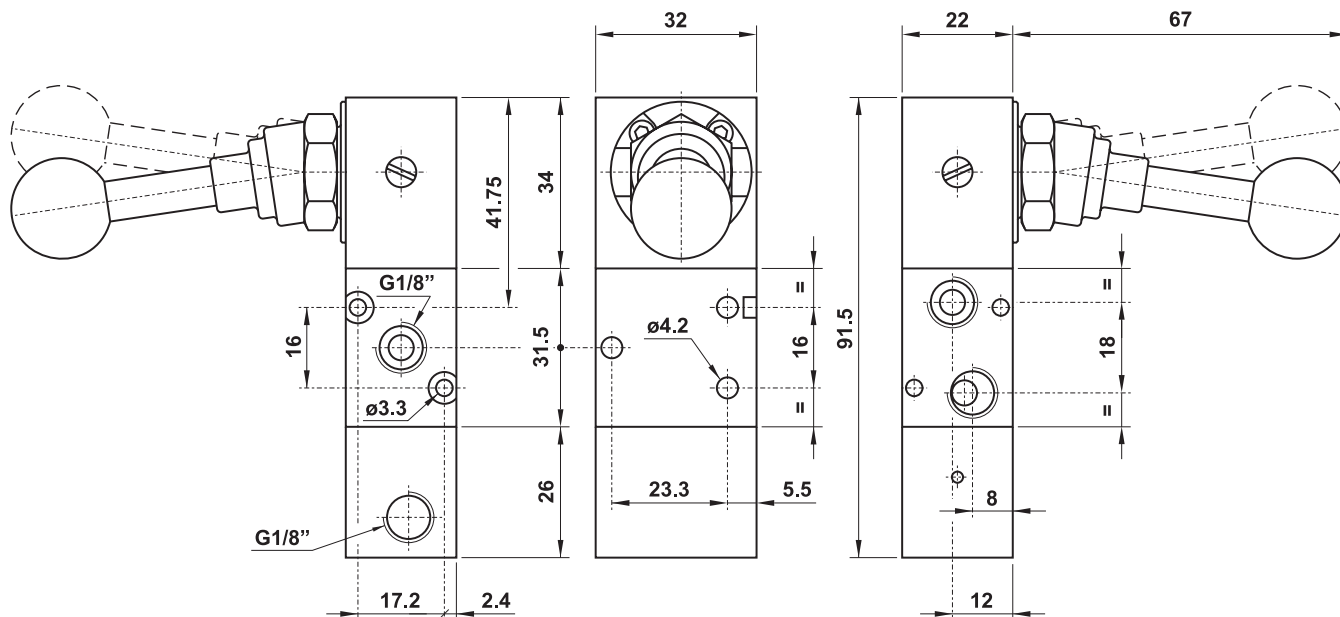
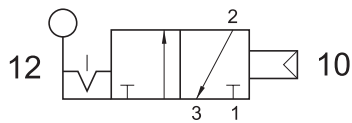
manually actuated valves



## 321 CL90

3/2 1/8" leva 90° - ritorno a comando pneumatico

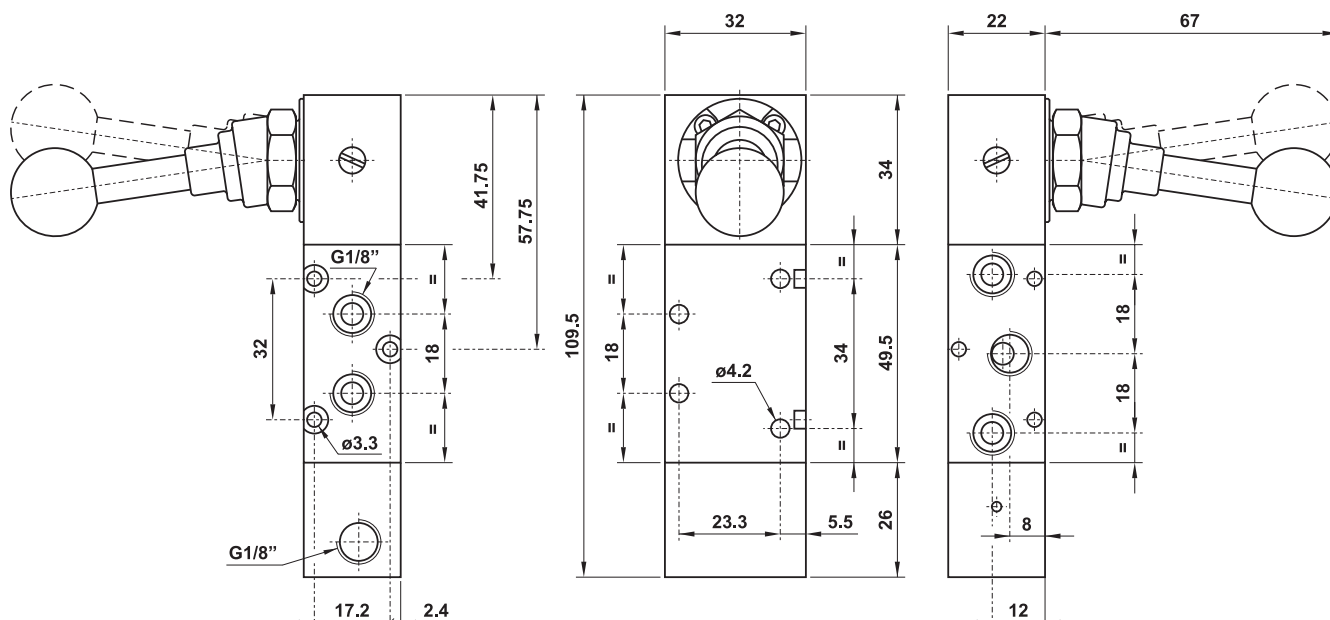
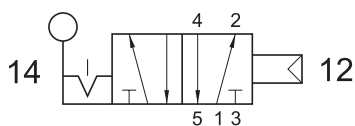
3/2 1/8" 90° lever - separate pneumatically piloted return



## 521 CL90

5/2 1/8" leva 90° - ritorno a comando pneumatico

5/2 1/8" 90° lever - separate pneumatically piloted return

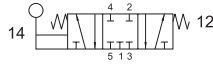


# valvole ad azionamento manuale

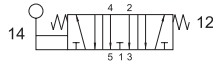
manually actuated valves



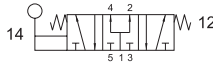
**5213C ML90** centri chiusi  
*closed centres*



**5213A ML90** centri aperti  
*open centres*

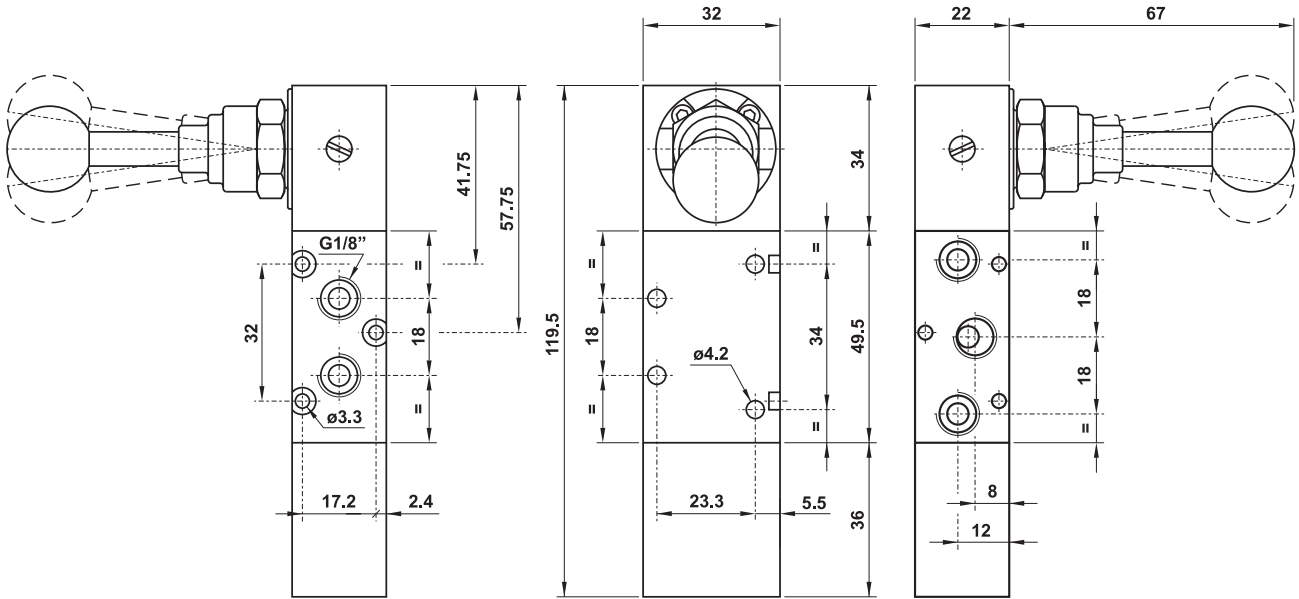


**5213P ML90** centri in pressione  
*pressurized centres*

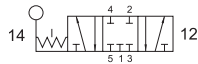


5/3 1/8" leva 90° - ritorno al centro

5/3 1/8" 90° lever - spring return to centre



**5213C LL90** centri chiusi  
*closed centres*



**5213A LL90** centri aperti  
*open centres*

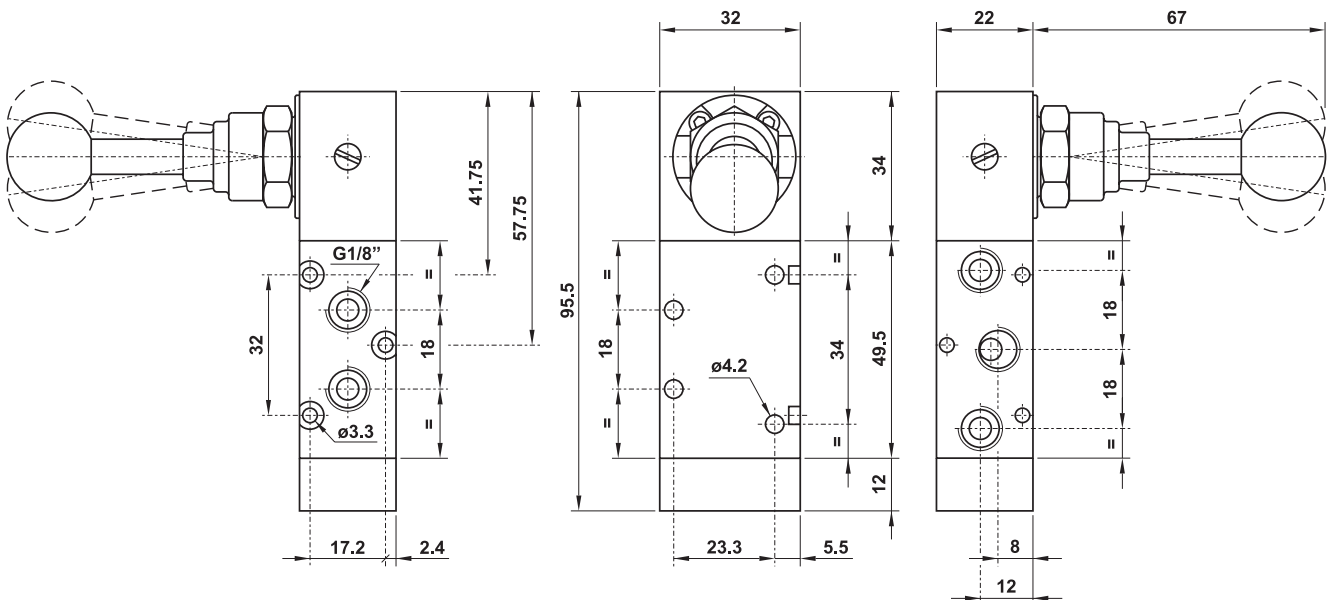


**5213P LL90** centri in pressione  
*pressurized centres*



5/3 1/8" leva 90° - tre posizioni stabili

5/3 1/8" 90° lever - three detented positions



# valvole ad azionamento manuale

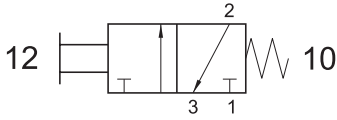
manually actuated valves



## 321 MT

3/2 1/8" tiretto - ritorno a molla

3/2 1/8" push/pull with spring return

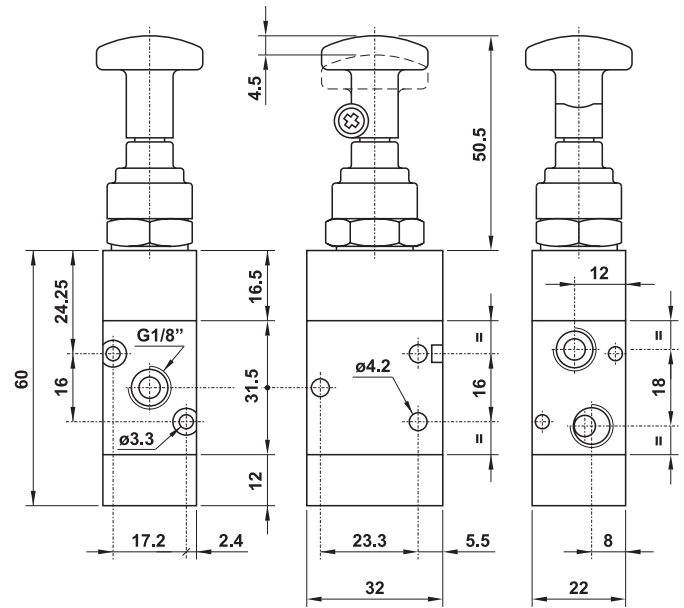


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

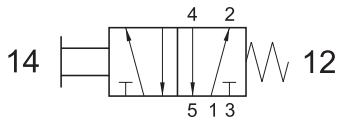
On request RED push button



## 521 MT

5/2 1/8" tiretto - ritorno a molla

5/2 1/8" push/pull with spring return

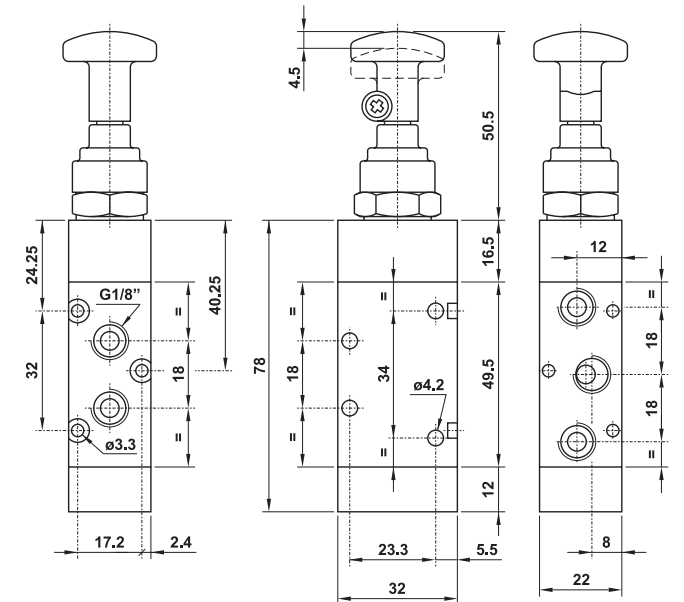


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

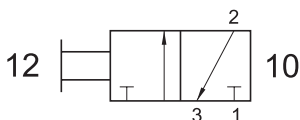
On request RED push button



## 321 TT

3/2 1/8" tiretto bistabile

3/2 1/8" detented push/pull

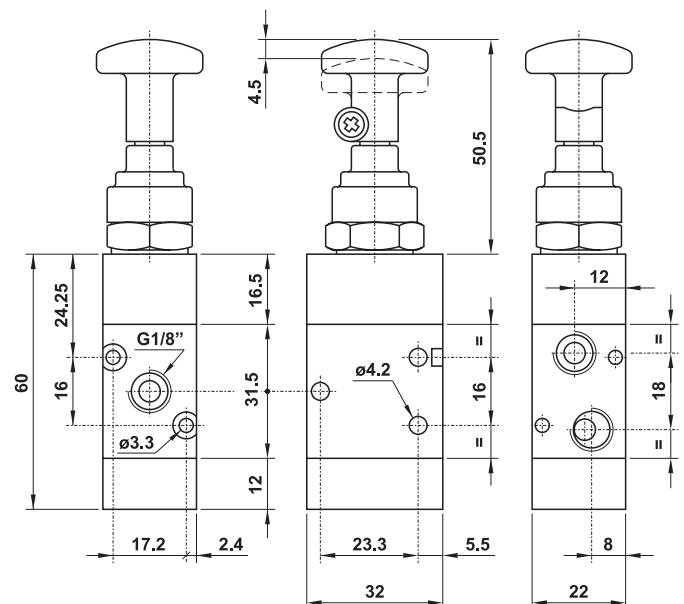


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

On request RED push button



# valvole ad azionamento manuale

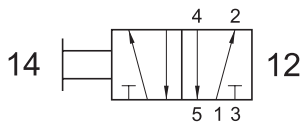
manually actuated valves



## 521 TT

5/2 1/8" tiretto bistabile

5/2 1/8" detented push/pull

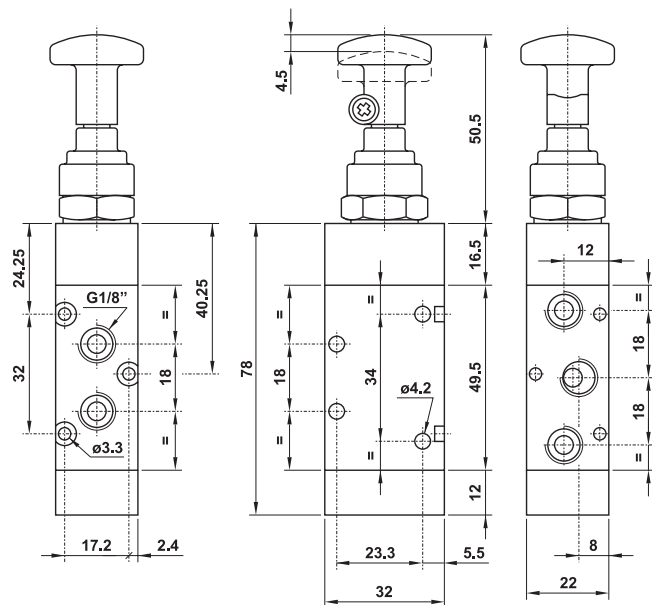


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

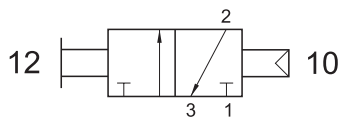
On request RED push button



## 321 CT

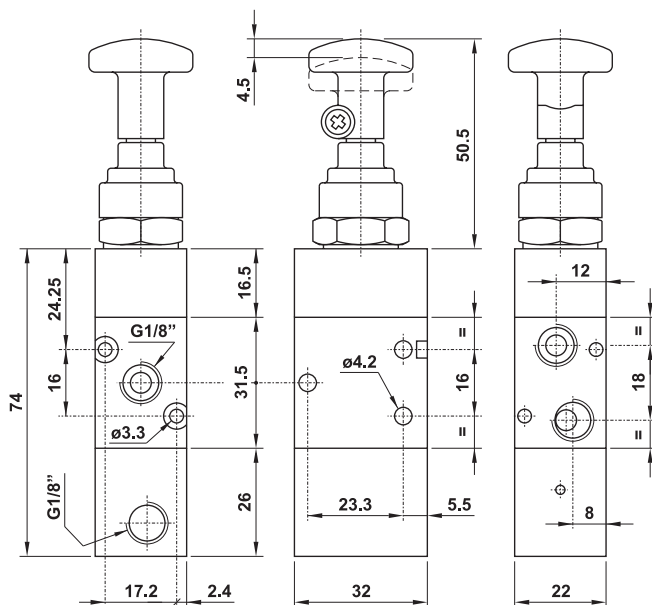
3/2 1/8" tiretto sganciato - ritorno a comando pneumatico

3/2 1/8" push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

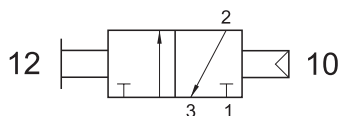
The return can be done only with pneumatic pilote signal.



## 321 CTT

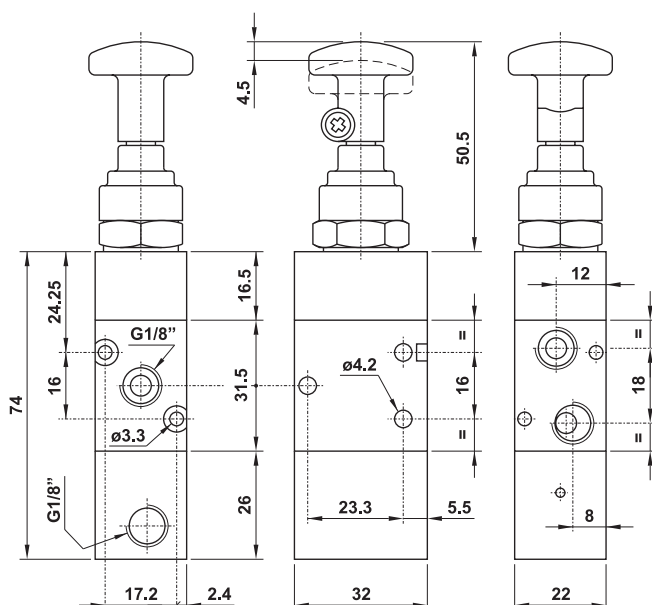
3/2 1/8" tiretto agganciato - ritorno a comando pneumatico

3/2 1/8" detented push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic pilote signal or by pulling the knob.



# valvole ad azionamento manuale

manually actuated valves



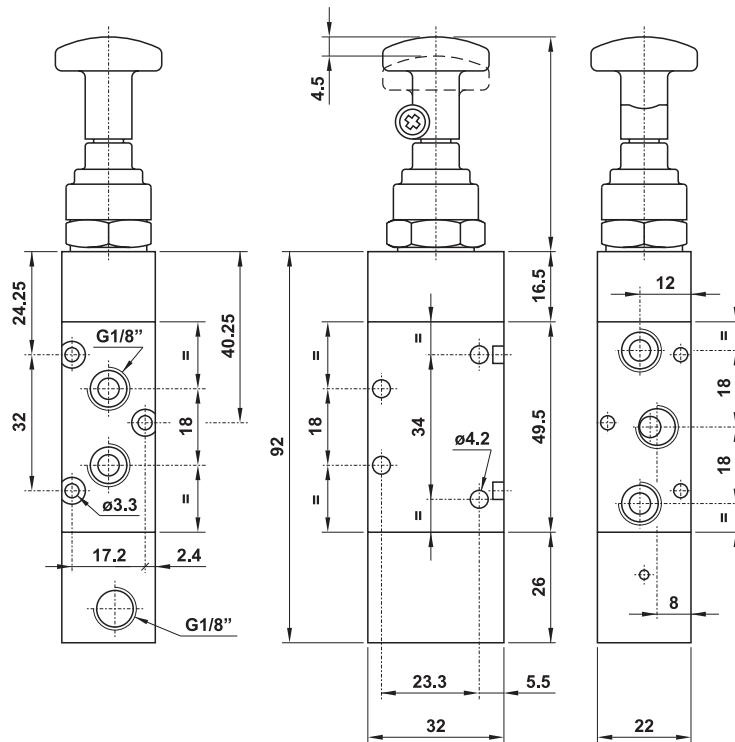
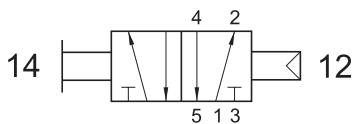
## 521 CT

5/2 1/8" tiretto sganciato - ritorno a comando pneumatico

5/2 1/8" push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

The return can be done only with pneumatic pilote signal.



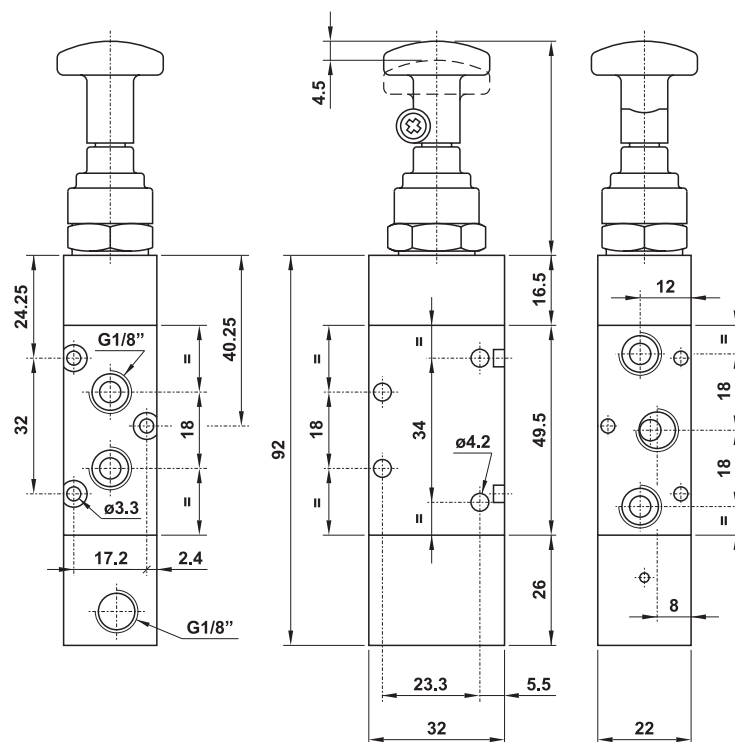
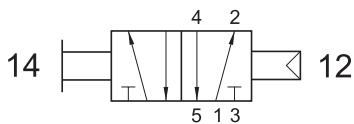
## 521 CTT

5/2 1/8" tiretto agganciato - ritorno a comando pneumatico

5/2 1/8" detented push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic pilote signal or by pulling the knob.



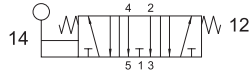
# valvole ad azionamento manuale

manually actuated valves

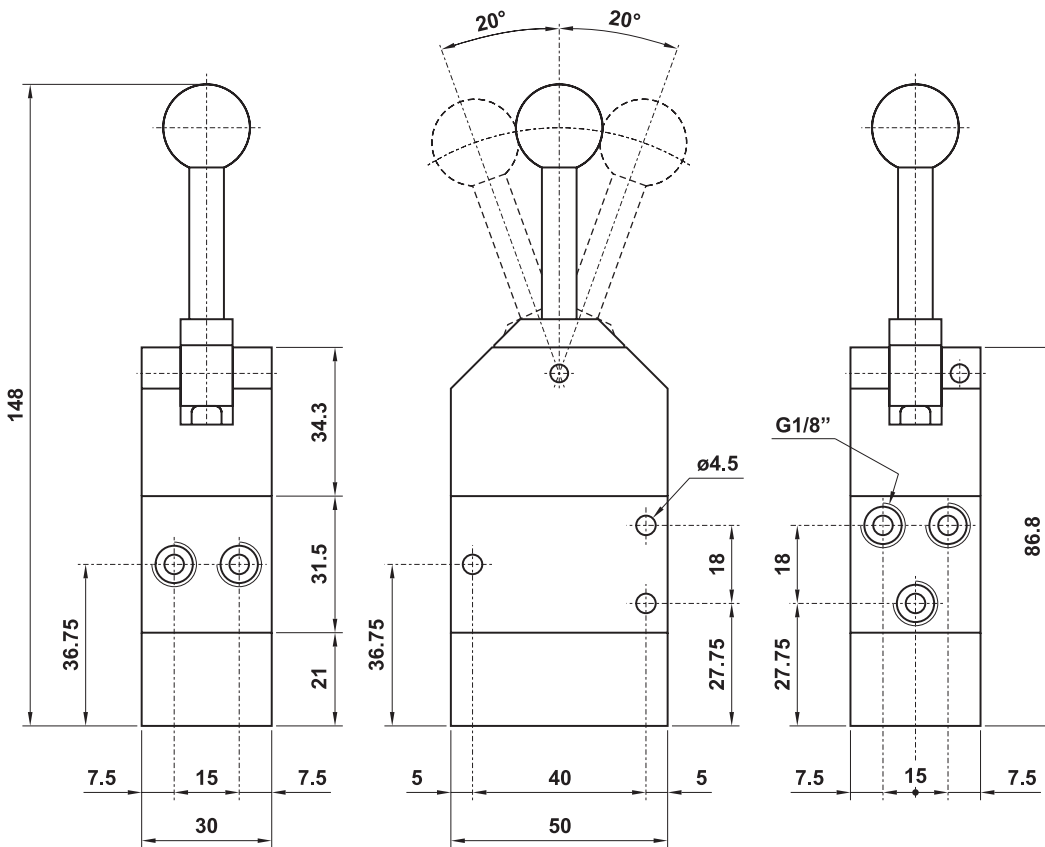


## 5213A ML

centri aperti  
open centres



5/3 1/8" leva in testa - ritorno al centro  
5/3 1/8" top lever - spring return to centre

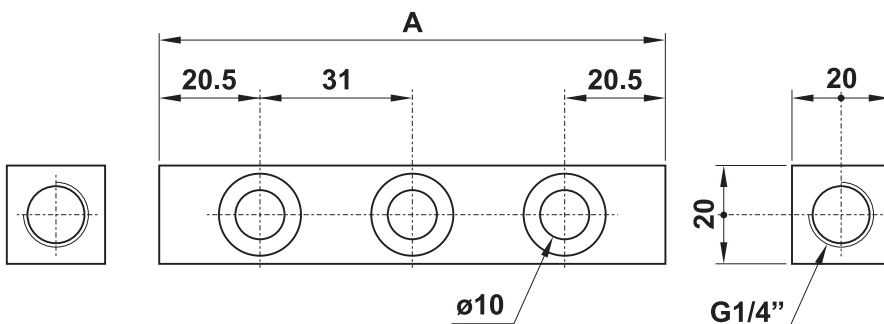


- Collettori per valvole 5213A ML  
Collectors for valves 5213A ML

- Alimentazione unica  
Only one air supply port



modello model	nr. posizioni no. stations	A
00.136.3	2	72
00.137.3	3	103
00.138.3	4	134
00.139.3	5	165



Ogni pezzo è venduto in kit con le viti e le guarnizioni necessarie al suo assemblaggio.  
It is sold in kit with all necessary screws and sealings for installation.

# valvole ad azionamento manuale

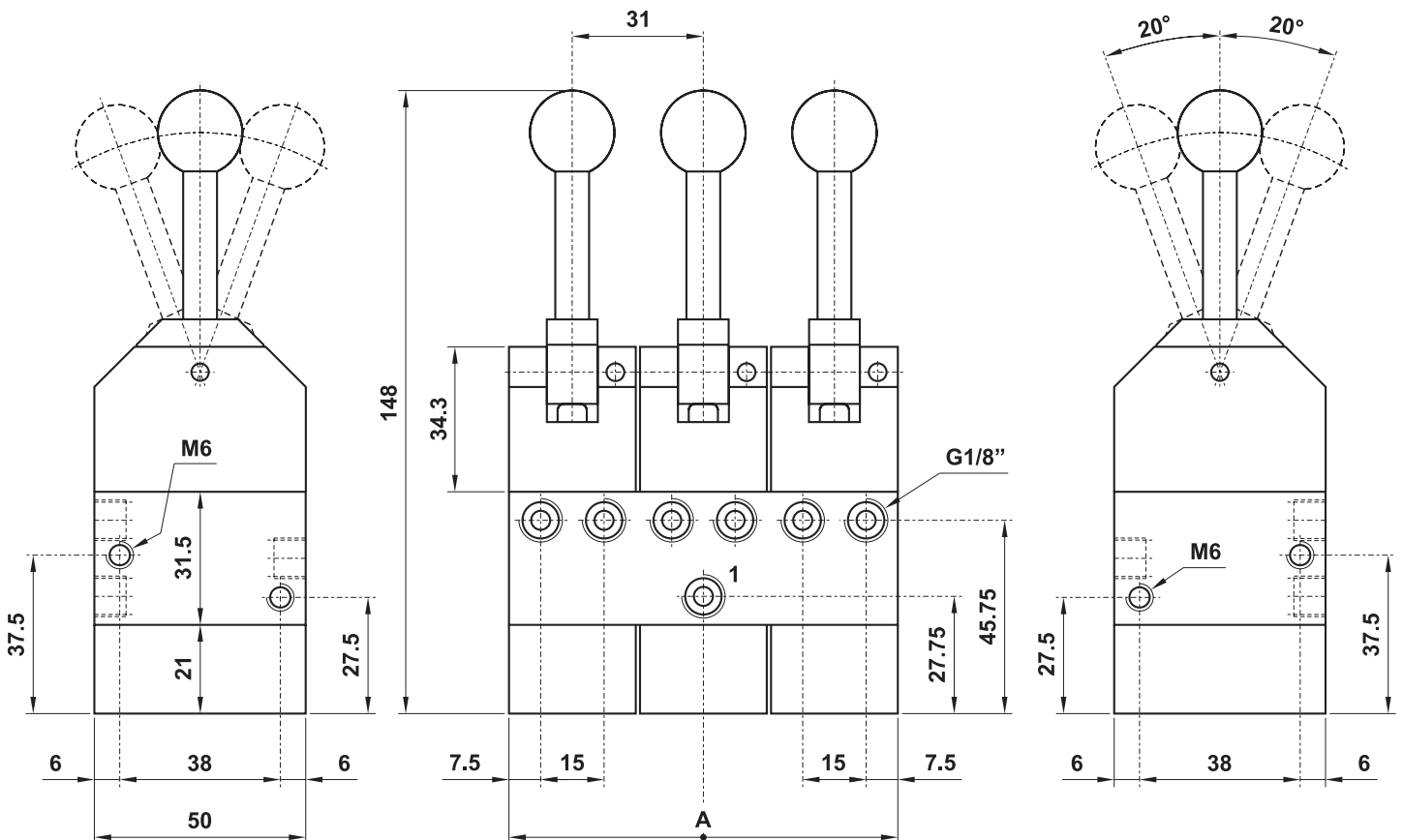
manually actuated valves



- Blocchi di valvole 5/3 centri aperti, leva in testa, ritorno al centro  
*Blocks of valves 5/3 open centres, top lever, spring return to centre*
- Alimentazione unica  
*Only one air supply port*



modello <i>model</i>	nr. posizioni <i>no. stations</i>	A
00.163.4	2	61
00.160.4	3	92
00.164.4	4	123



# valvole ad azionamento manuale

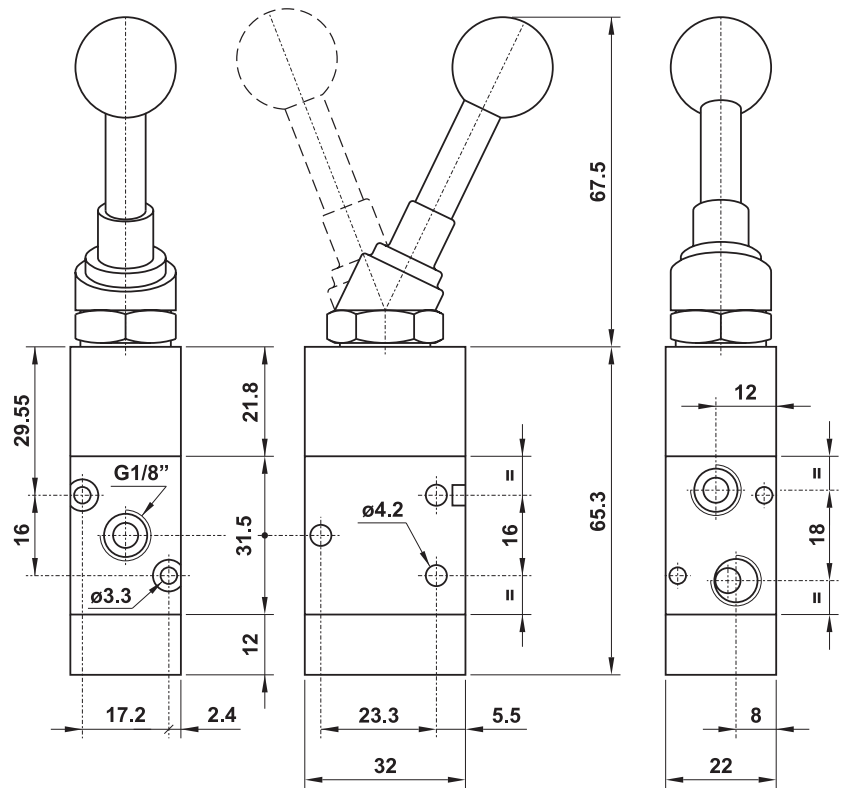
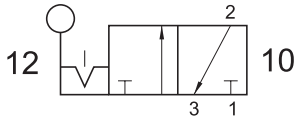
manually actuated valves



## 321 LL

3/2 1/8" leva in testa bistabile

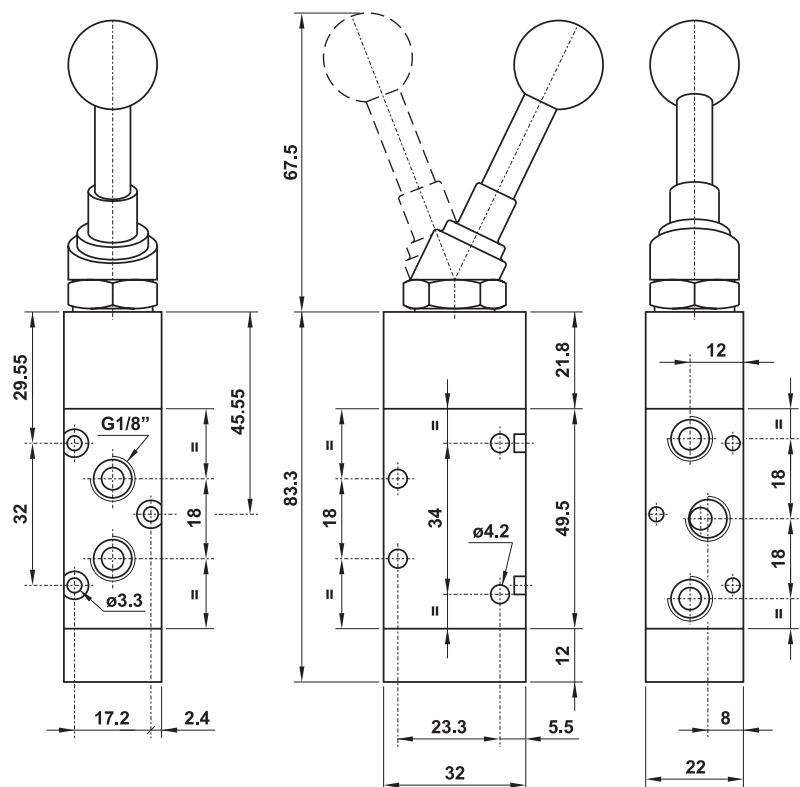
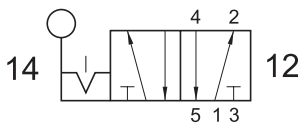
3/2 1/8" bi-stable top lever



## 521 LL

5/2 1/8" leva in testa bistabile

5/2 1/8" bi-stable top lever



# valvole ad azionamento manuale

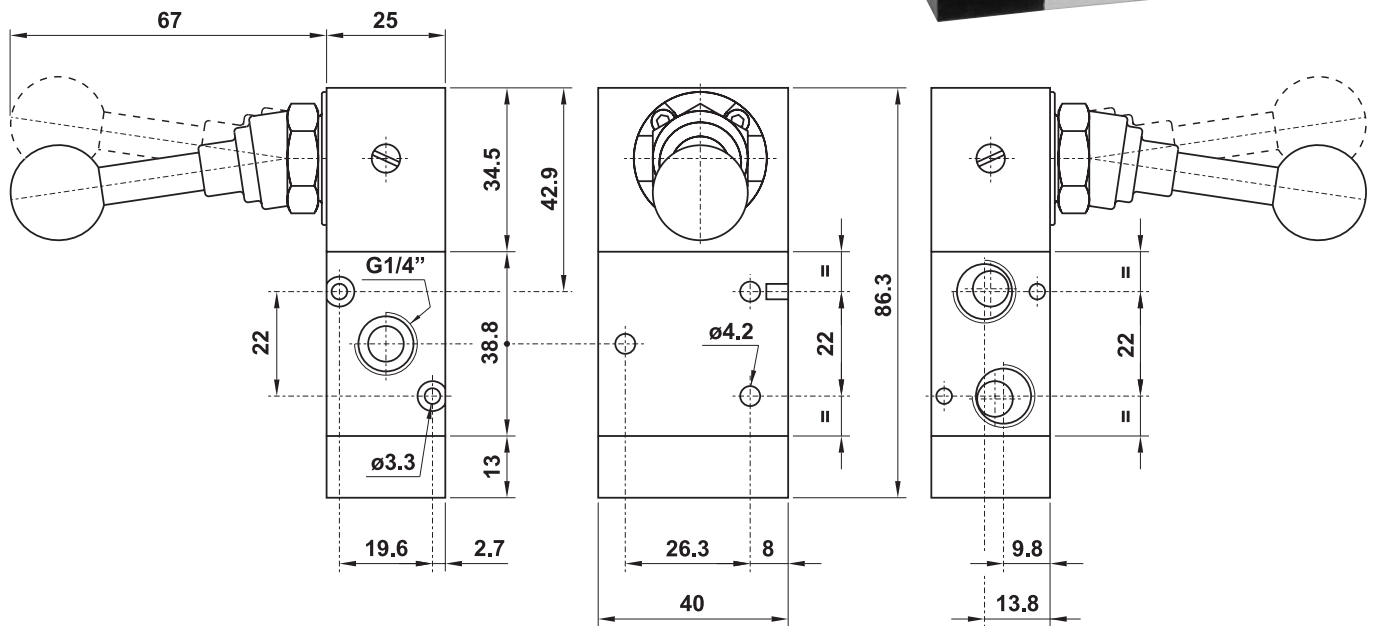
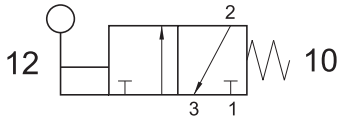
manually actuated valves



## 322 ML90

3/2 1/4" leva 90° - ritorno a molla

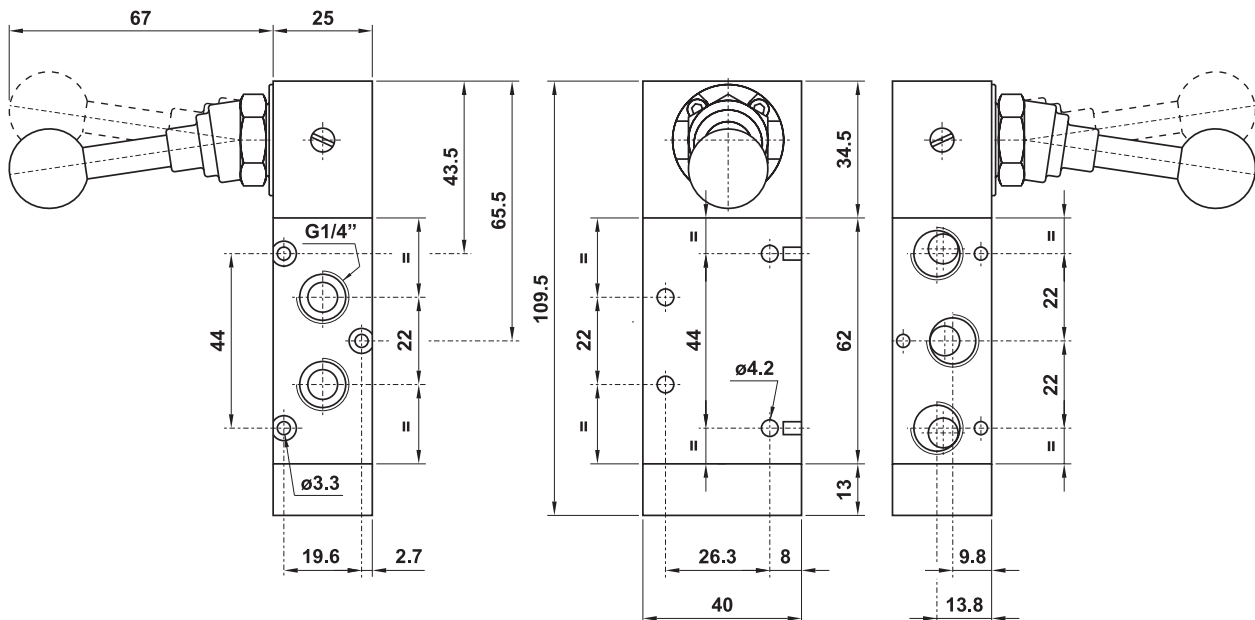
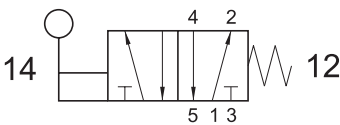
3/2 1/4" 90° lever - spring return



## 522 ML90

5/2 1/4" leva 90° - ritorno a molla

5/2 1/4" 90° lever - spring return



# valvole ad azionamento manuale

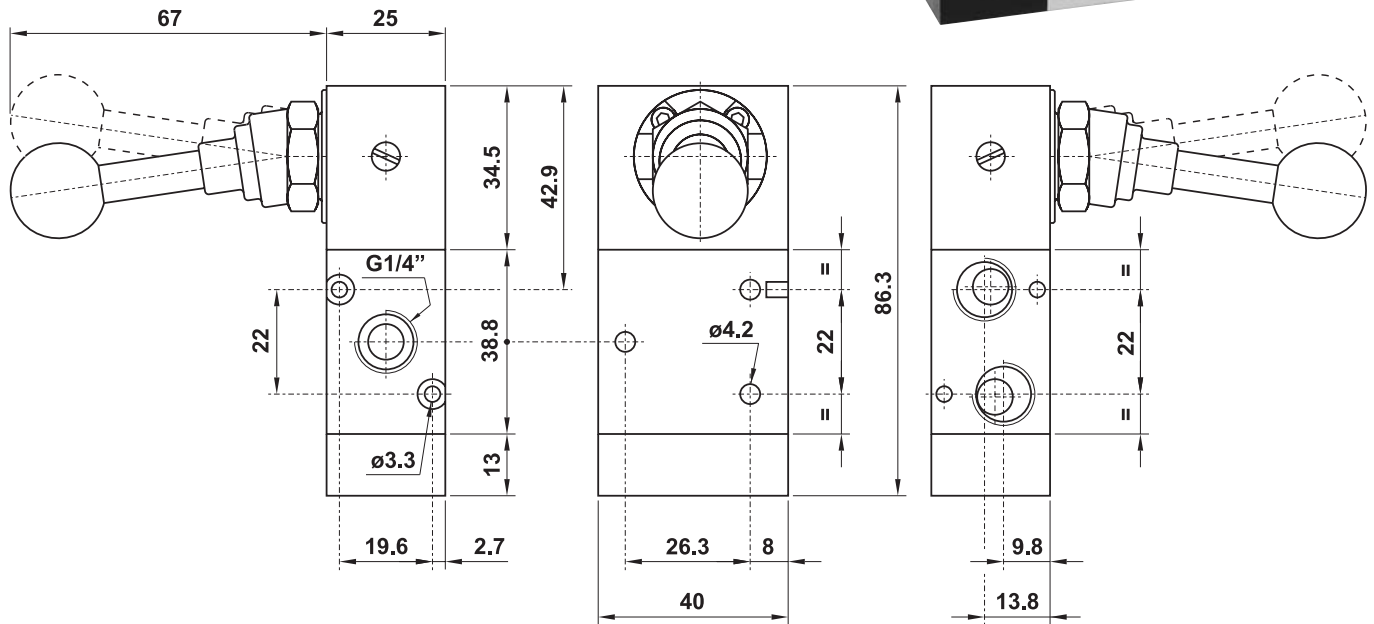
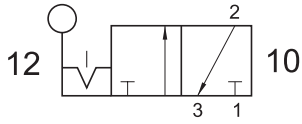
manually actuated valves



## 322 LL90

3/2 1/4" leva 90° bistabile

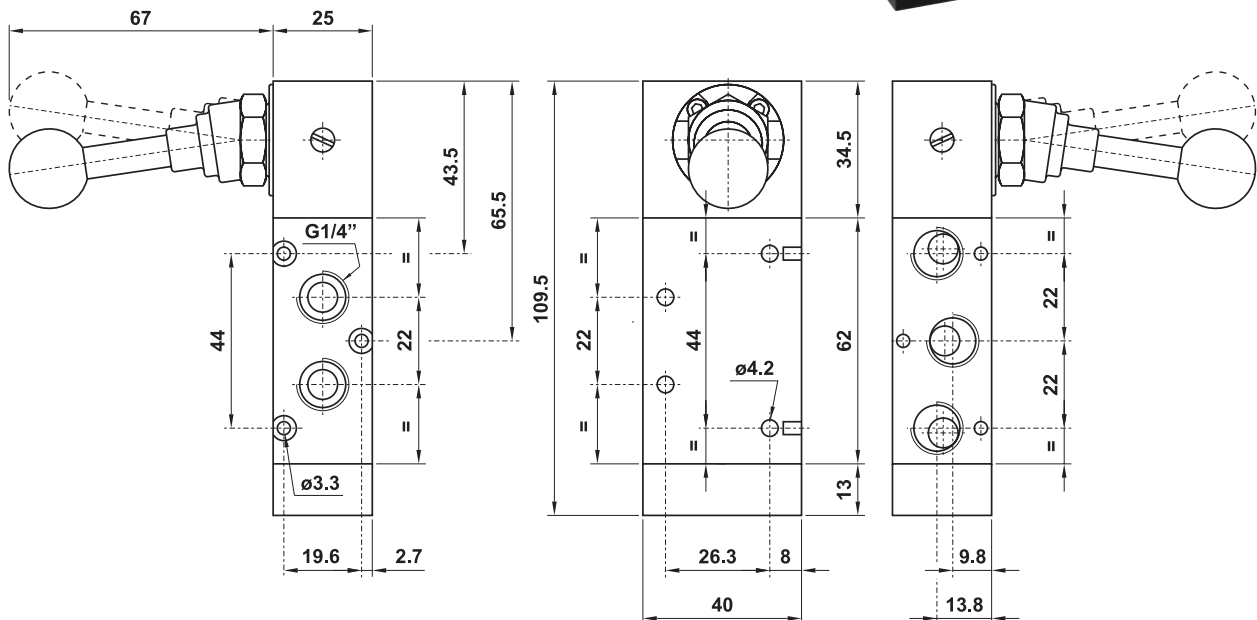
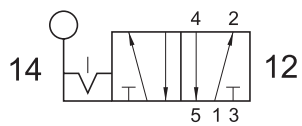
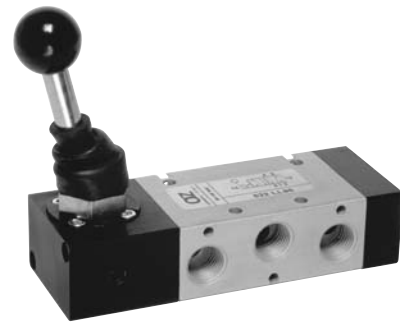
3/2 1/4" 90° bi-stable lever



## 522 LL90

5/2 1/4" leva 90° bistabile

5/2 1/4" 90° bi-stable lever



# valvole ad azionamento manuale

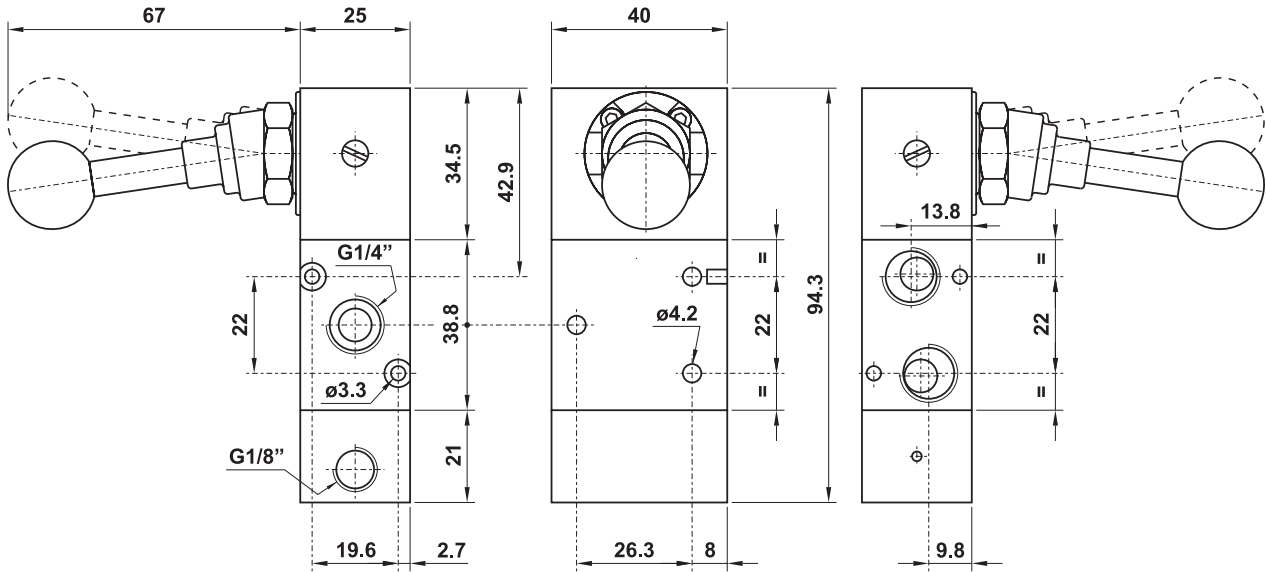
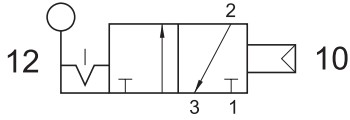
manually actuated valves



## 322 CL90

3/2 1/4" leva 90° - ritorno a comando pneumatico

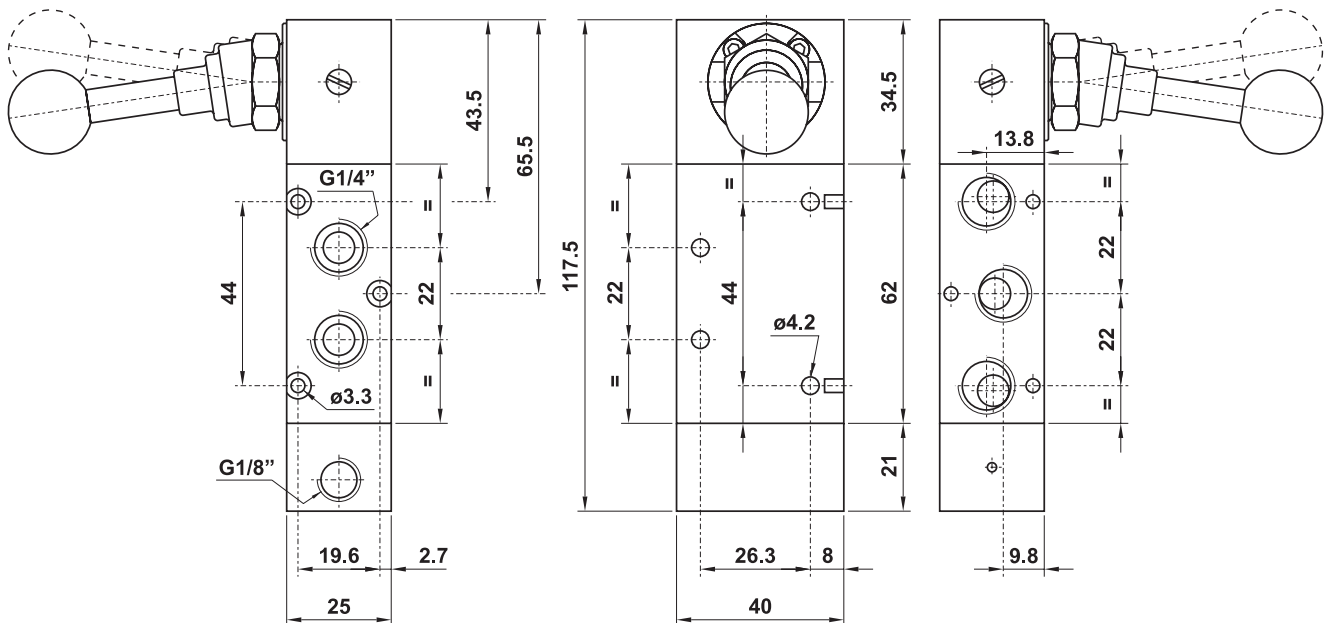
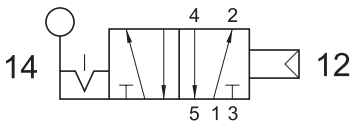
3/2 1/4" 90° lever - separate pneumatically piloted return



## 522 CL90

5/2 1/4" leva 90° - ritorno a comando pneumatico

5/2 1/4" 90° lever - separate pneumatically piloted return



# valvole ad azionamento manuale

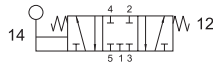
manually actuated valves



**5223C ML90** centri chiusi  
*closed centres*

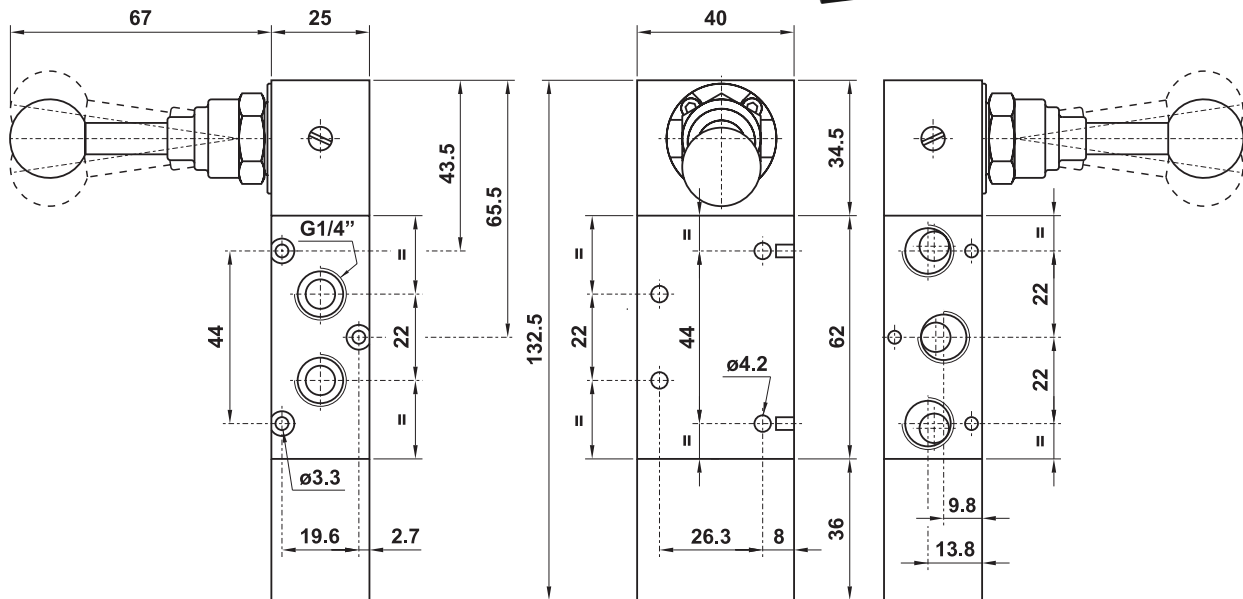
**5223A ML90** centri aperti  
*open centres*

**5223P ML90** centri in pressione  
*pressurized centres*



5/3 1/4" leva 90° - ritorno al centro

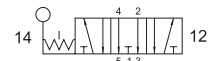
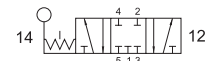
5/3 1/4" 90° lever - spring return to centre



**5223C LL90** centri chiusi  
*closed centres*

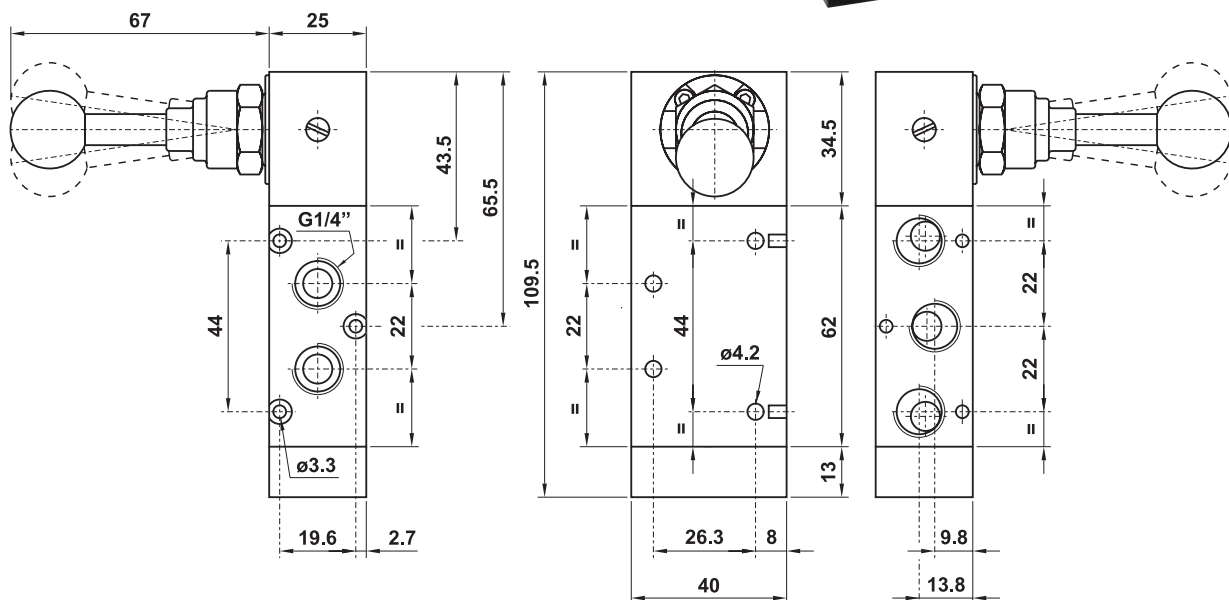
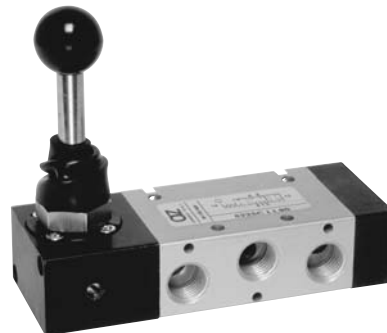
**5223A LL90** centri aperti  
*open centres*

**5223P LL90** centri in pressione  
*pressurized centres*



5/3 1/4" leva 90° - tre posizioni stabili

5/3 1/4" 90° lever - three detented positions



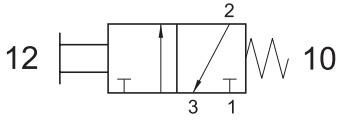
# valvole ad azionamento manuale

manually actuated valves

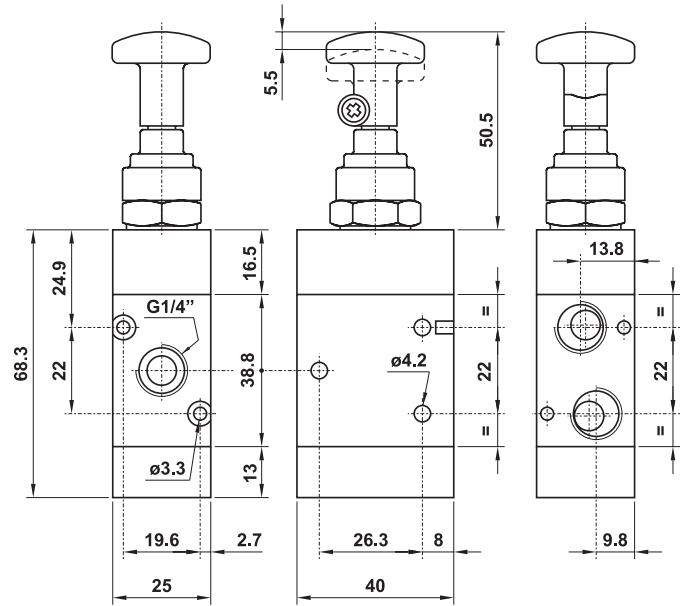


## 322 MT

3/2 1/4" tiretto - ritorno a molla  
3/2 1/4" push/pull with spring return

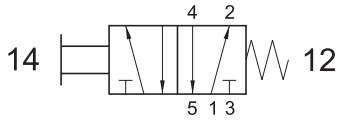


Pomolo tiretto standard: NERO  
A richiesta pomolo ROSSO  
Standard push button: BLACK  
On request RED push button

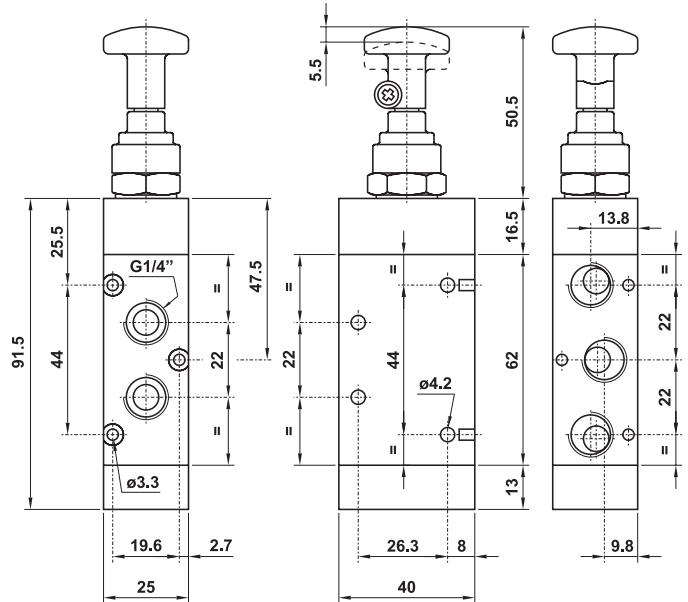


## 522 MT

5/2 1/4" tiretto - ritorno a molla  
5/2 1/4" push/pull with spring return

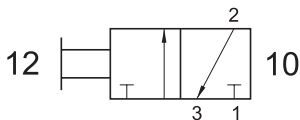


Pomolo tiretto standard: NERO  
A richiesta pomolo ROSSO  
Standard push button: BLACK  
On request RED push button

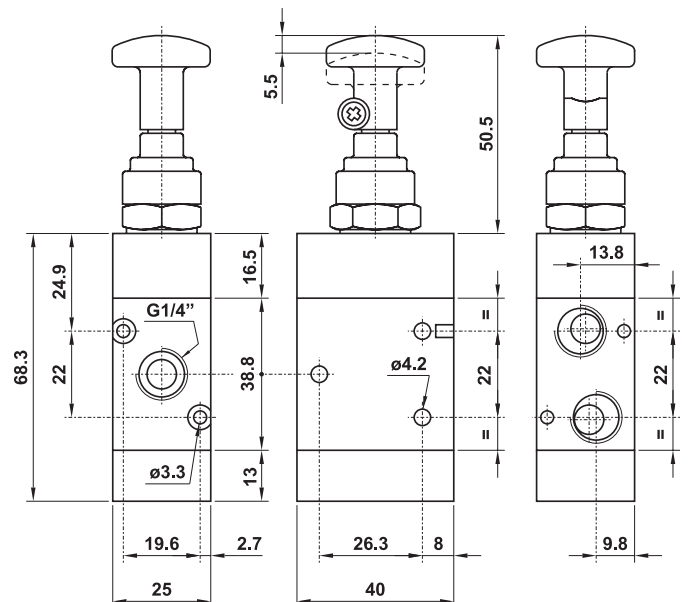


## 322 TT

3/2 1/4" tiretto - bistabile  
3/2 1/4" detented push/pull



Pomolo tiretto standard: NERO  
A richiesta pomolo ROSSO  
Standard push button: BLACK  
On request RED push button



# valvole ad azionamento manuale

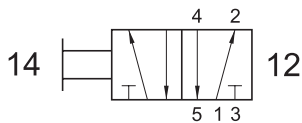
manually actuated valves



## 522 TT

5/2 1/4" tiretto - bistabile

5/2 1/4" detented push/pull

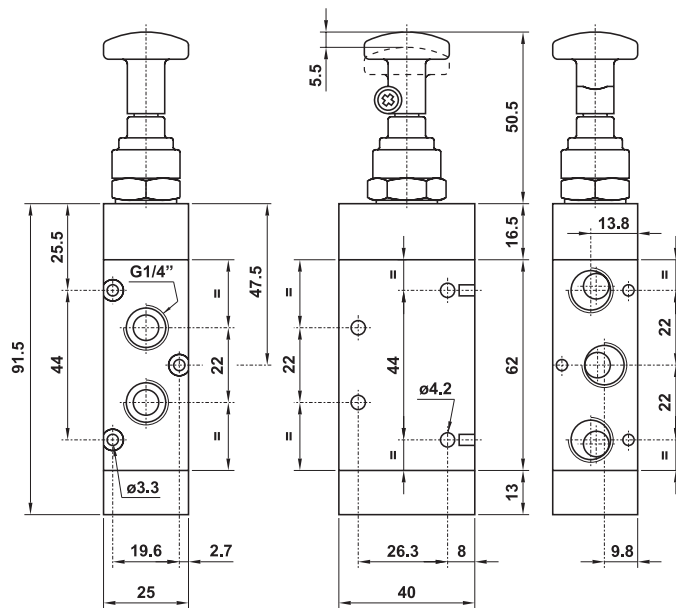


Pomolo tiretto standard: NERO

A richiesta pomolo ROSSO

Standard push button: BLACK

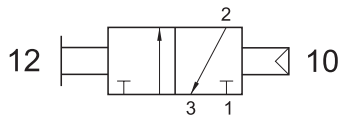
On request RED push button



## 322 CT

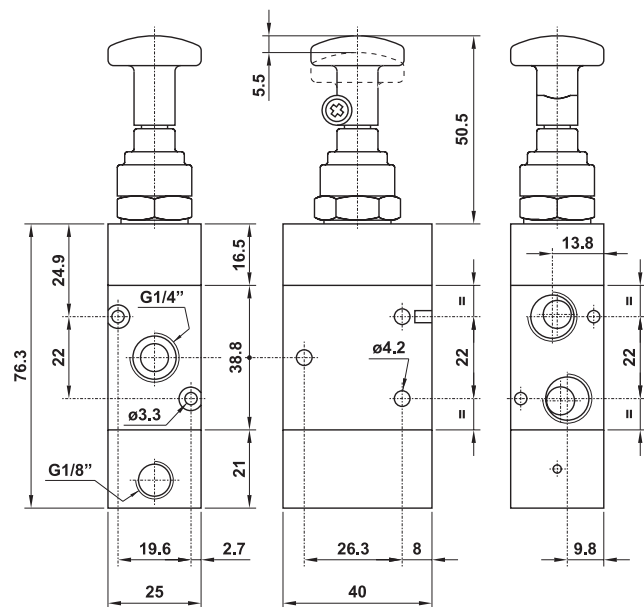
3/2 1/4" tiretto sganciato - ritorno a comando pneumatico

3/2 1/4" push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

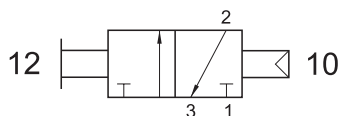
The return can be done only with pneumatic pilote signal.



## 322 CTT

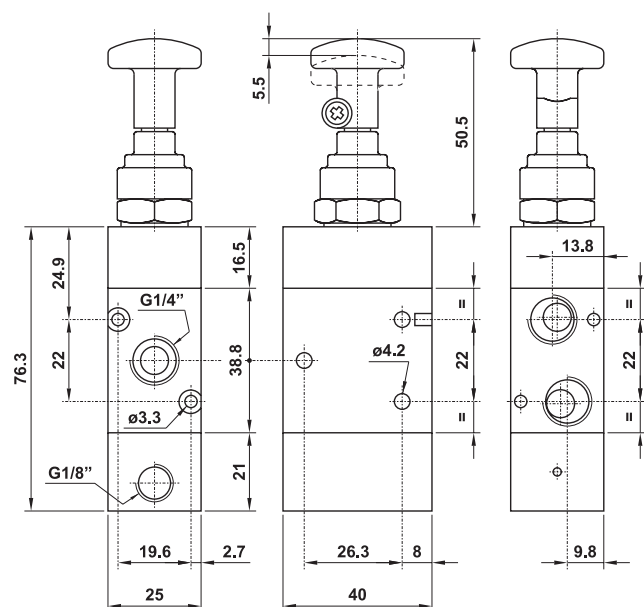
3/2 1/4" tiretto agganciato - ritorno a comando pneumatico

3/2 1/4" detented push/pull with separate pneumatically piloted return



Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic pilote signal or by pulling the knob.



# valvole ad azionamento manuale

manually actuated valves



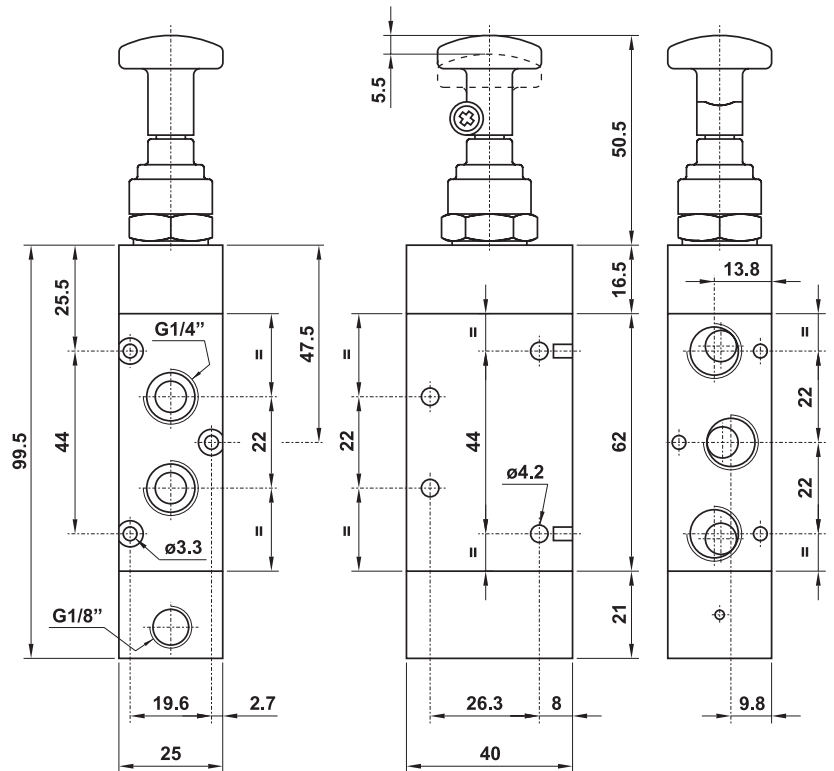
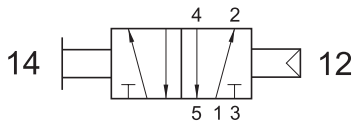
## 522 CT

5/2 1/4" tiretto sganciato - ritorno a comando pneumatico

5/2 1/4" push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno si effettua soltanto a comando pneumatico.

The return can be done only with pneumatic pilot signal.



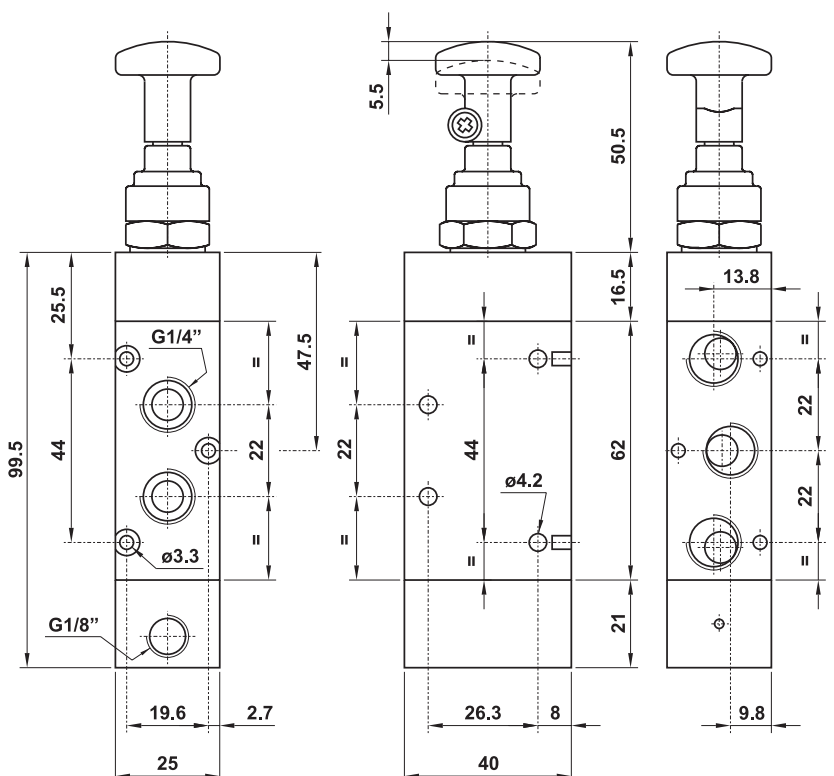
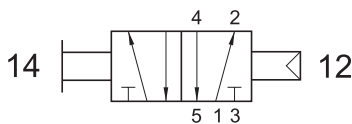
## 522 CTT

5/2 1/4" tiretto agganciato - ritorno a comando pneumatico

5/2 1/4" detented push/pull with separate pneumatically piloted return

Dopo aver premuto il tiretto, il ritorno può essere effettuato inviando un segnale pneumatico o tirando il tiretto.

The return can be done with pneumatic pilot signal or by pulling the knob.



# valvole ad azionamento manuale

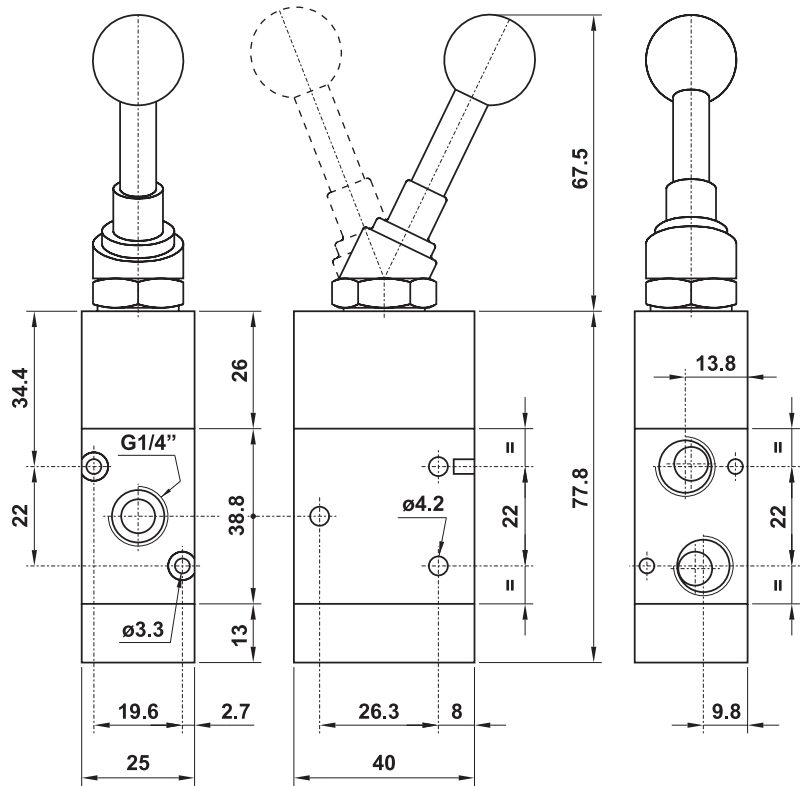
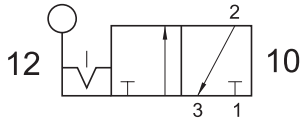
manually actuated valves



## 322 LL

3/2 1/4" leva in testa - bistabile

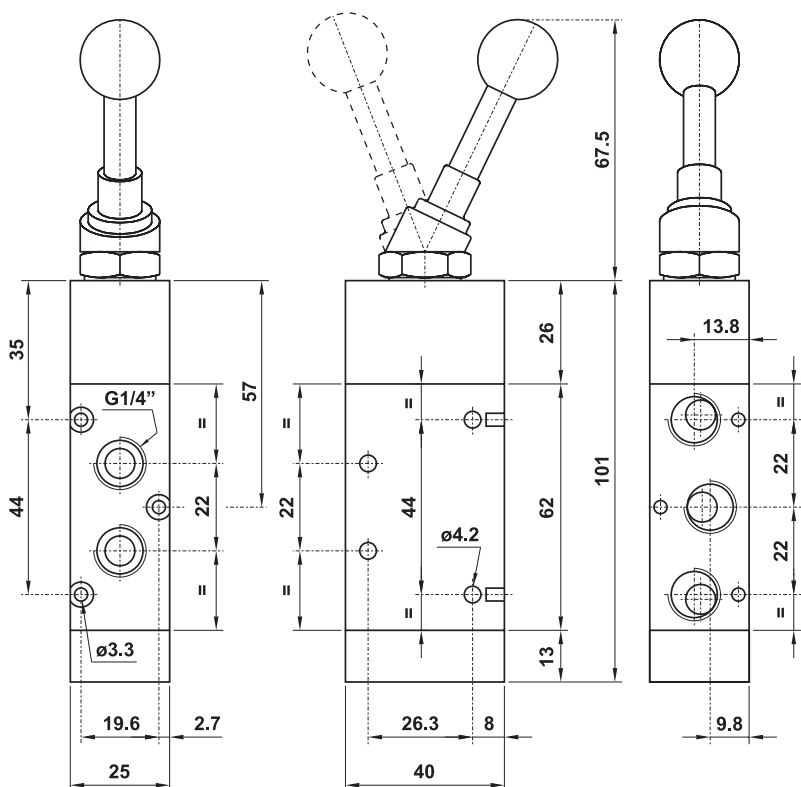
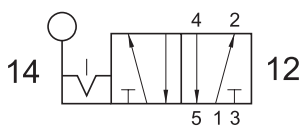
3/2 1/4" bi-stable top lever



## 522 LL

5/2 1/4" leva in testa - bistabile

5/2 1/4" bi-stable top lever



# valvole ad azionamento manuale

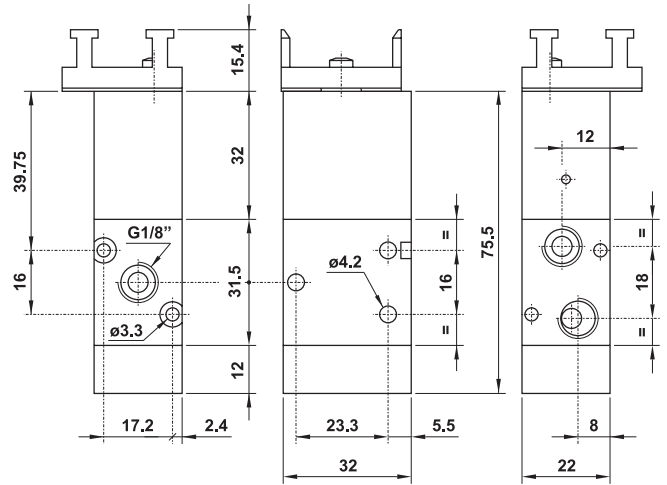
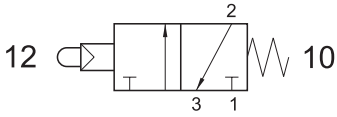
manually actuated valves



## 321 MB

3/2 1/8" NC pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

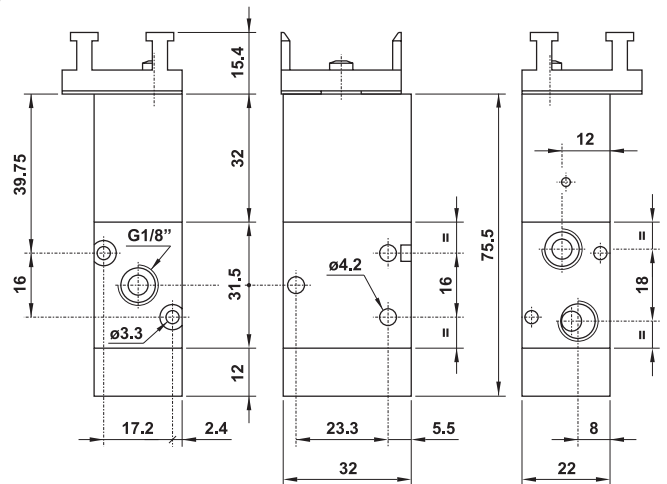
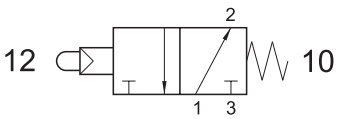
3/2 1/8" NC servo-piloted tappet with actuator adaptor for panel mounting - spring return



## 321 MBA

3/2 1/8" NA pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

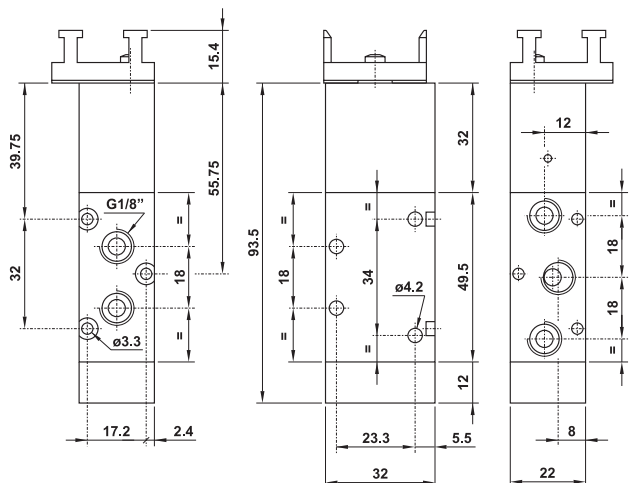
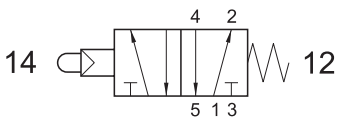
3/2 1/8" NO servo-piloted tappet with actuator adaptor for panel mounting - spring return



## 521 MB

5/2 1/8" pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

5/2 1/8" servo-piloted tappet with actuator adaptor for panel mounting - spring return



# valvole ad azionamento manuale

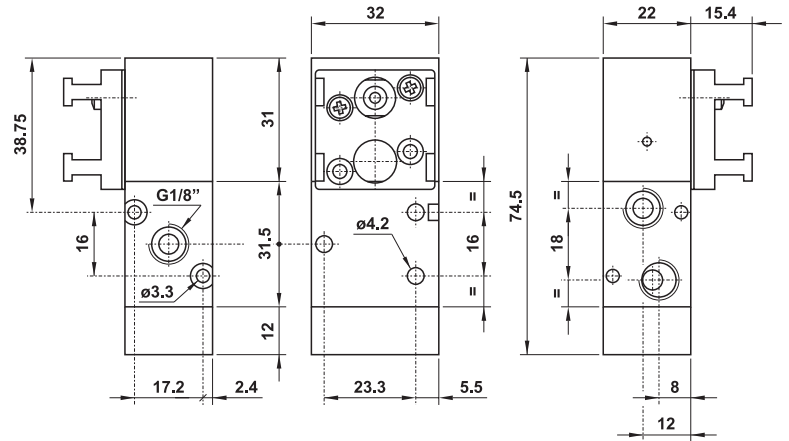
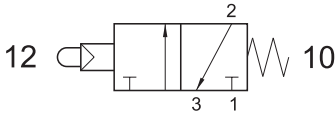
manually actuated valves



## 321 MB90

3/2 1/8" NC pulsante servopilotato 90° con interfaccia per attuatore a pannello - ritorno a molla

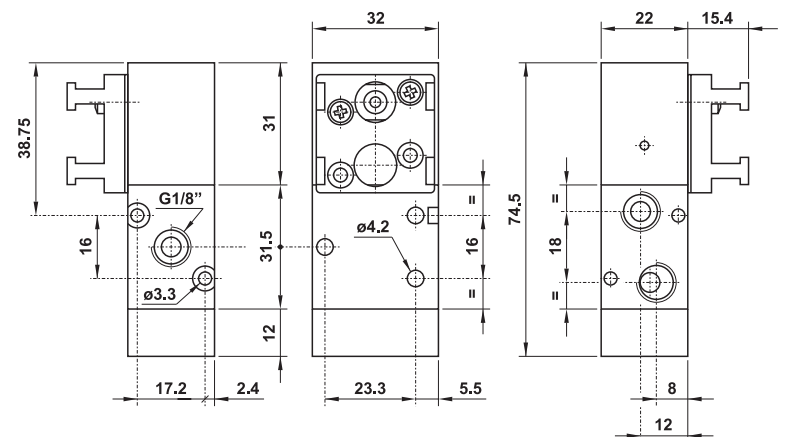
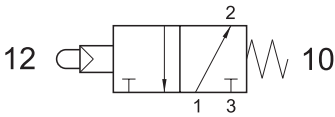
3/2 1/8" NC servo-piloted tappet with 90° actuator adaptor for panel mounting - spring return



## 321 MBA90

3/2 1/8" NA pulsante servopilotato 90° con interfaccia per attuatore a pannello - ritorno a molla

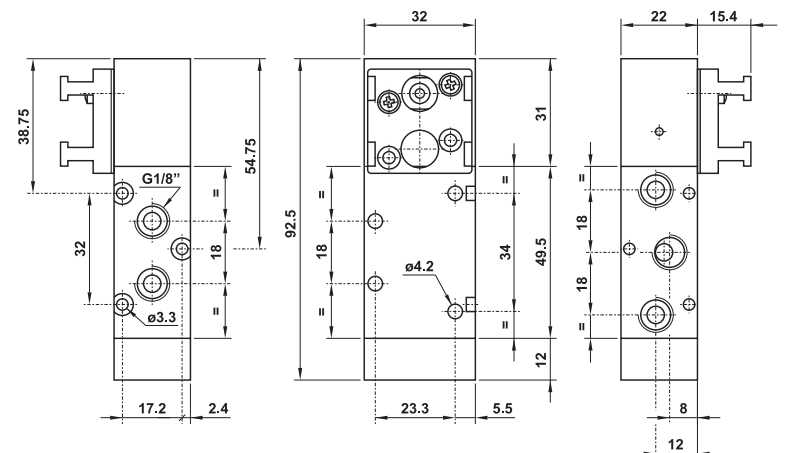
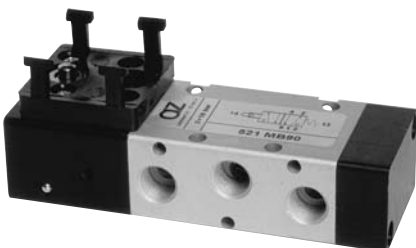
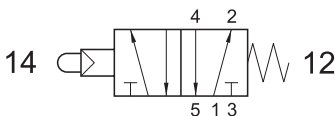
3/2 1/8" NO servo-piloted tappet with 90° actuator adaptor for panel mounting - spring return



## 521 MB90

5/2 1/8" pulsante servopilotato con interfaccia per attuatore a pannello - ritorno a molla

5/2 1/8" servo-piloted tappet with 90° actuator adaptor for panel mounting - spring return



# valvole ad azionamento manuale

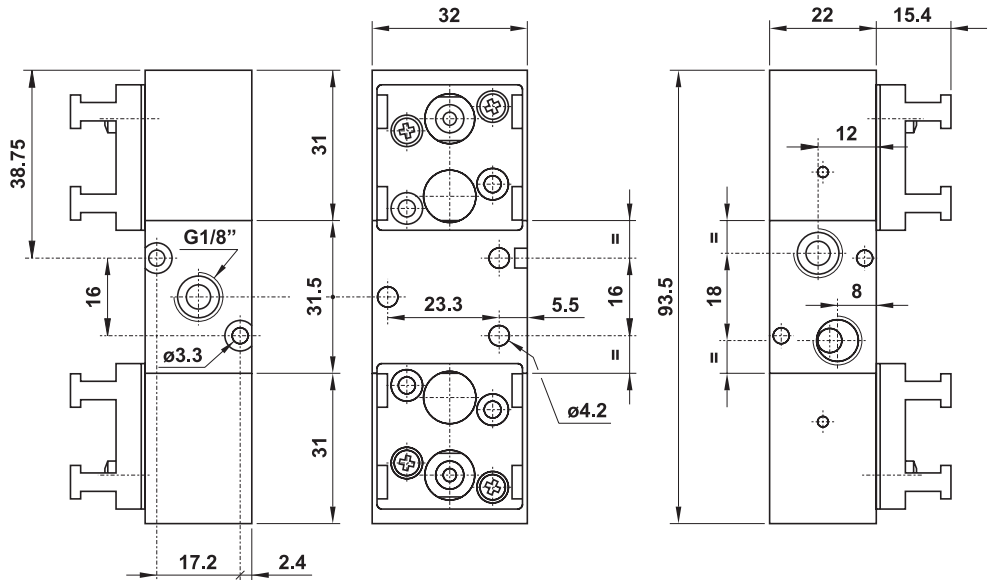
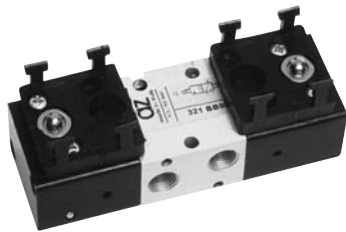
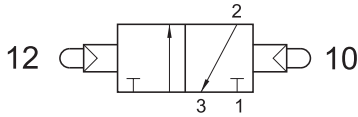
manually actuated valves



## 321 BB90

3/2 1/8" doppio pulsante servopilotato 90° con interfaccia per attuatore a pannello

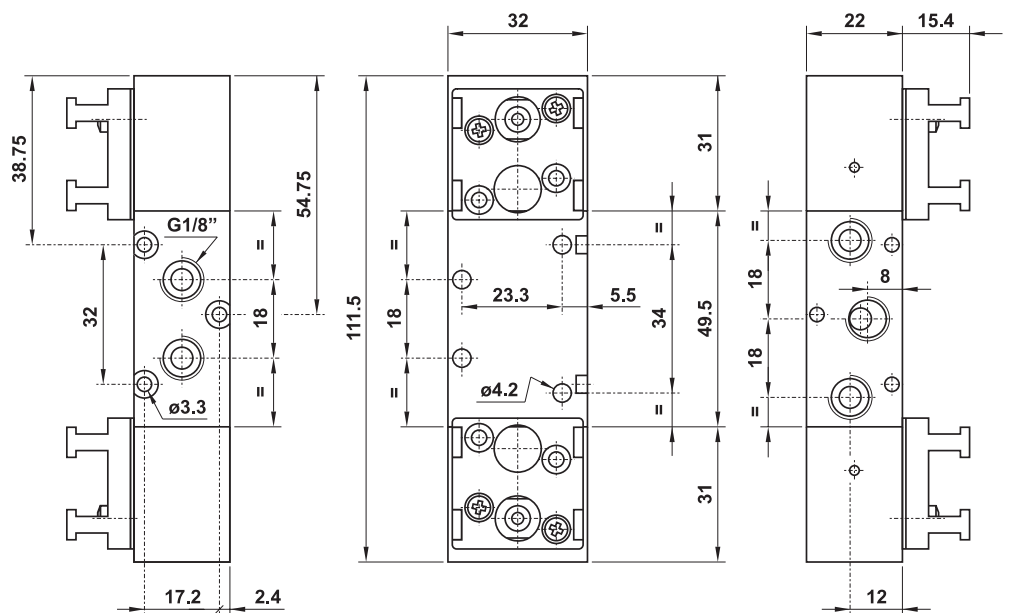
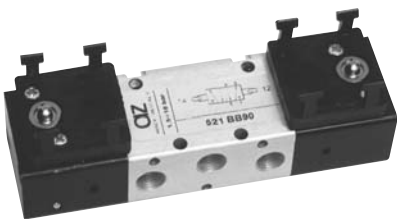
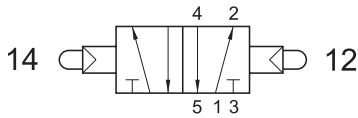
3/2 1/8" double servo-piloted tappet with 90° actuator adaptor for panel mounting



## 521 BB90

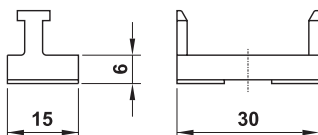
5/2 1/8" doppio pulsante servopilotato 90° con interfaccia per attuatore a pannello

5/2 1/8" double servo-piloted tappet with 90° actuator adaptor for panel mounting



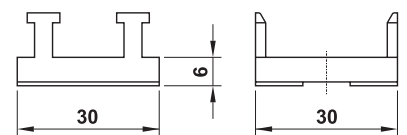
### 08.017.2

interfaccia singola per attuatore a pannello completa di viti  
single adaptor for panel mounting actuator, complete with fixing screws



### 08.015.2

interfaccia doppia per attuatore a pannello completa di viti  
double adaptor for panel mounting actuator, complete with fixing screws



# attuatori da pannello nuova serie

new series actuators for panel mounting

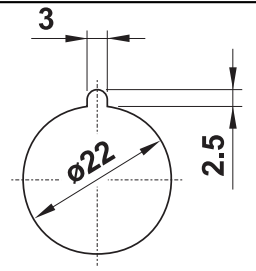


## pulsante protetto protected push button

codice code	colori standard standard colours
PR1/NRB	ROSSO, NERO e BIANCO (forniti assieme nel kit) red, black and white (supplied in kit)

Foro per montaggio a pannello  
con asola antirotazione

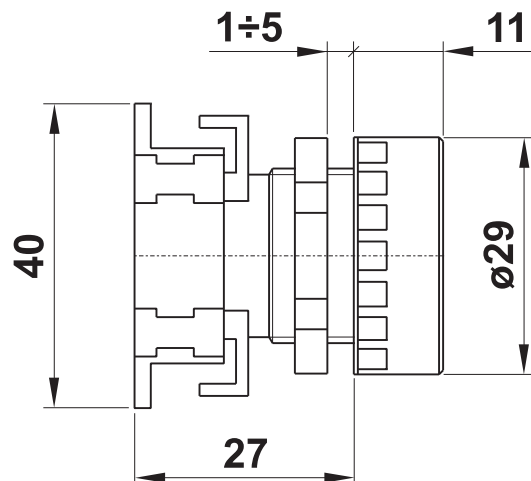
Panel mounting hole with antirotation  
feature



- I seguenti colori sono disponibili ordinandoli in aggiunta al kit standard  
The following colours can be ordered separately

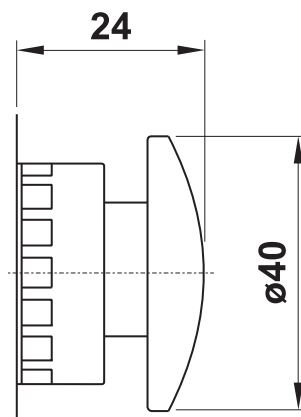
codice code	colore colour
DCV1	VERDE [green]
DCG1	GIALLO [yellow]
DCA1	AZZURRO [light blue]
DCB1	BIANCO [white]

codice code	colore colour
DCN1	NERO [black]
DCR1	ROSSO [red]



## fungo ø40 ø40 mushroom

codice code	descrizione description	colore colour
PF2/40	monostabile assiale [axial mono-stable]	ROSSO [red]
PF1/40	monostabile assiale [axial mono-stable]	NERO [black]
PFB2/40	sblocco a rotazione [turn to unlock]	ROSSO [red]

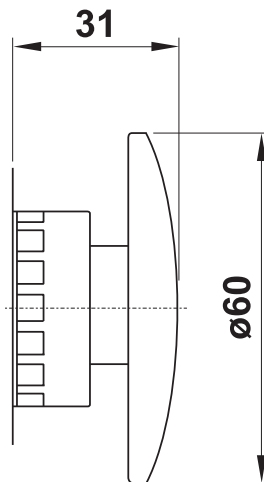


# attuatori da pannello nuova serie

*new series actuators for panel mounting*

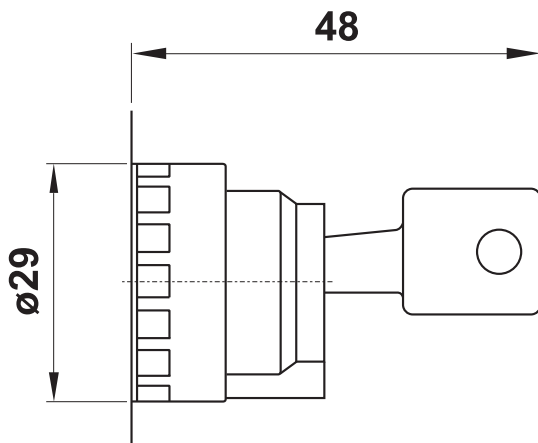


**fungo ø60**  
*ø60 palm*



codice <i>code</i>	descrizione <i>description</i>	colore <i>colour</i>
PFBA2	oscillante <i>[multi-directional]</i>	ROSSO <i>[red]</i>
PFB2/60	sblocco a rotazione <i>[turn to unlock]</i>	ROSSO <i>[red]</i>

**selettore a chiave 2 posizioni**  
*2 positions key selector*



codice <i>code</i>	funzione <i>function</i>	posizione di estrazione chiave <i>position to pull the key out</i>
SSC/CD-V	0 1	solo centrale <i>[only in central position]</i>
SSC/CD-Z	0 1	ambedue <i>[both positions]</i>
SSC/E-V	2 0 1	solo centrale <i>[only in central position]</i>

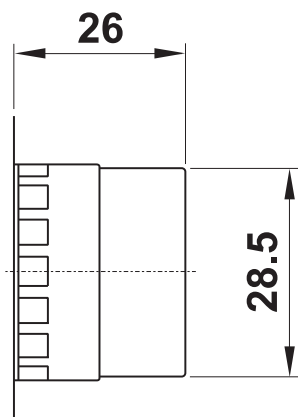
# attuatori da pannello nuova serie

*new series actuators for panel mounting*



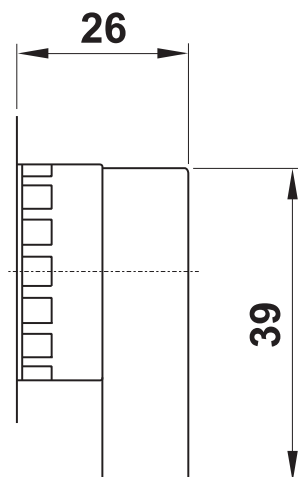
## selettore leva corta *short lever selector*

codice <i>code</i>	colore <i>colour</i>	funzione <i>function</i>
SS1/CD	NERO <i>black</i>	0 1
SS1/CD-R	NERO <i>black</i>	0 ← 1
SS1/E	NERO <i>black</i>	2 0 1
SS1/E-RC	NERO <i>black</i>	2 → 0 ← 1



## selettore leva lunga *long lever selector*

codice <i>code</i>	colore <i>colour</i>	funzione <i>function</i>
SSP1/CD	NERO <i>black</i>	0 1
SSP1/CD/R	NERO <i>black</i>	0 ← 1
SSP1/E	NERO <i>black</i>	2 0 1
SSP1/E-RC	NERO <i>black</i>	2 → 0 ← 1



Materiale <i>Material</i>	Materiale plastico ad alte prestazioni <i>High performance plastic material</i>
Grado di protezione <i>Protection degree</i>	IP 55
Corrispondenza alle norme <i>According to norms</i>	EN 60947-5-1 VDE 0660 IEC 947-5
Temperatura di esercizio <i>Temperature range</i>	max +55°C
Durata meccanica <i>Mechanical life time</i>	500000 manovre [actuations]

# valvole a pedale

pedal valves



- Valvola a spola 5/2 - utilizzo come 3/2 o 2/2 tappando le altre connessioni  
*5/2 spool valve - it can be used as 3/2 or 2/2 by plugging the unused ports*
- Attacchi filettati G1/4" sul corpo (raggruppati posteriormente)  
*G1/4" threaded ports*
- Con o senza protezione  
*With or without protection cover*
- Monostabile e bistabile  
*Mono-stable and bi-stable*
- Versione con microvalvola e a portata progressiva  
*Version with microvalve and with progressive flow rate*



## Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

Protezione: materiale plastico antiurto

## Materials

Body: aluminium 11S

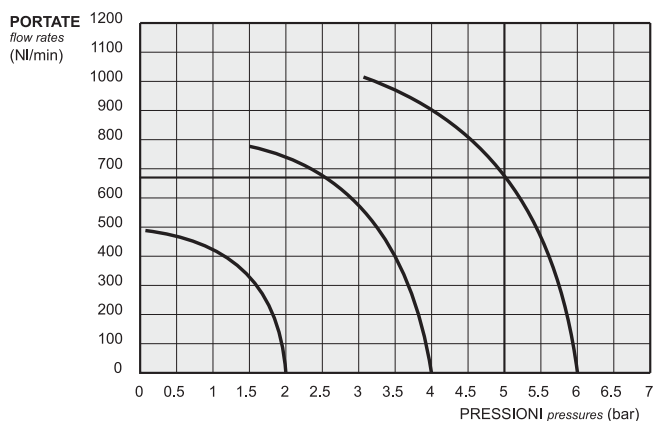
Springs: stainless steel

Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

Protection cover: shock resistant plastic material



## pedale elettrico electric pedal

Durata (cicli) <i>Life time (cycles)</i>	10.000.000
Resistenza contatto <i>Contact resistance</i>	25 mΩ
Grado di protezione elettrica <i>Electrical protection degree</i>	IP 54
Contatti <i>Contacts</i>	1 NA + 1 NC scatto rapido <i>1 NO + 1 NC rapid switch</i>

### potenza di impiego secondo IEC 337-1 utilization power, according to IEC 337-1

DC		
V	24	220
A	6	0.1

AC				
V	24	220	380	500
A	10	10	8	6

Diametro nominale <i>Nominal orifice</i>	7.5 mm
Attacchi <i>Ports</i>	G1/4"
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

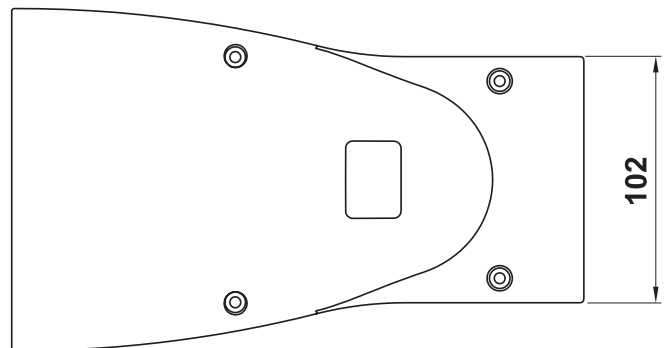
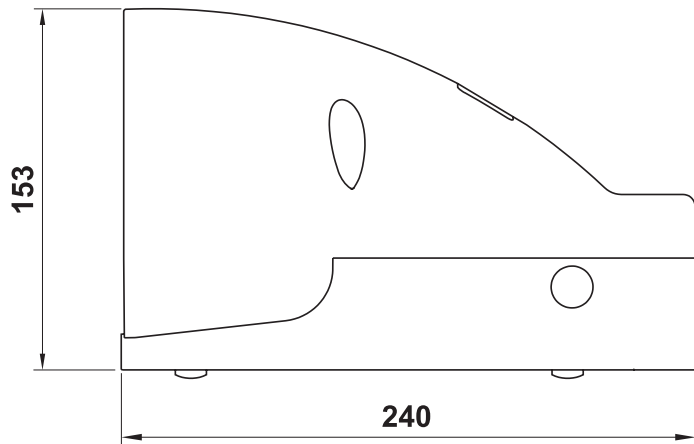
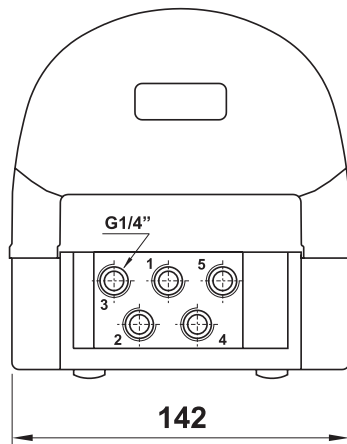
# valvole a pedale

pedal valves



## PEDALE CON VALVOLA A SPOLA 5/2 G1/4"

pedal with 5/2 G1/4" spool valve



Colore della copertura: **GIALLO**

Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>01.052.4N</b>	<b>PED 502 M</b>	Pedale 5/2 1/4" monostabile con protezione <i>Mono-stable pedal valve 5/2 1/4" with protection cover</i>	
<b>01.053.4N</b>	<b>PED 502 B</b>	Pedale 5/2 1/4" bistabile con protezione <i>Bi-stable pedal valve 5/2 1/4" with protection cover</i>	
<b>01.072.4N</b>	<b>PED 502 S</b>	Pedale 5/2 1/4" monostabile con protezione e fermo di sicurezza* <i>Mono-stable pedal valve 5/2 1/4" with protection cover and safety feature*</i>	
<b>01.126.4N</b>	<b>PED 502 BS</b>	Pedale 5/2 1/4" bistabile con protezione e fermo di sicurezza* <i>Bi-stable pedal valve 5/2 1/4" with protection cover and safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

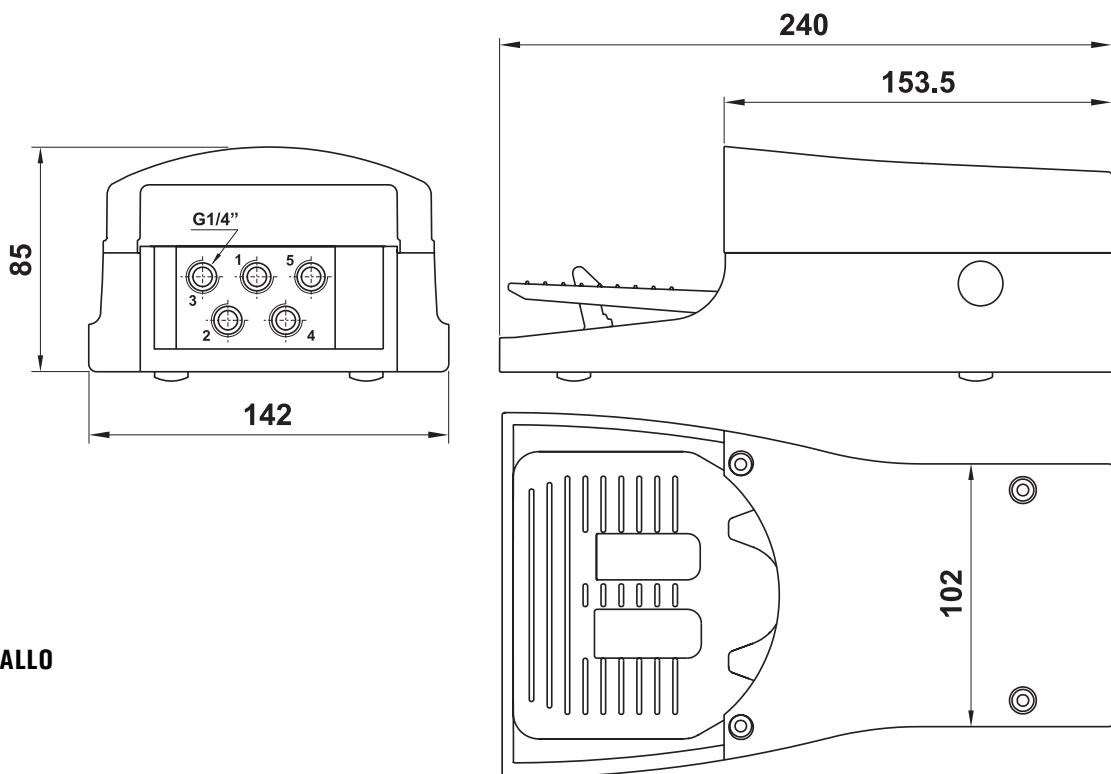
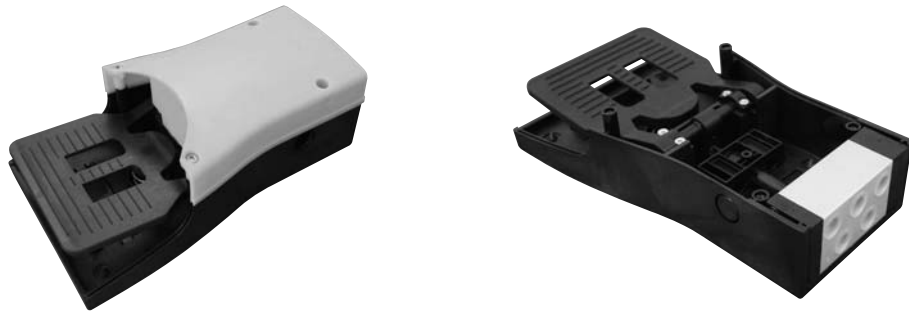
# valvole a pedale

pedal valves



## PEDALE CON VALVOLA A SPOLA 5/2 G1/4" - senza protezione

pedal with 5/2 G1/4" spool valve - without protection cover



Colore della copertura: **GIALLO**

Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>01.080.4N</b>	<b>PEDS 502 M</b>	Pedale 5/2 1/4" monostabile senza protezione <i>Mono-stable pedal valve 5/2 1/4" without protection cover</i>	
<b>01.081.4N</b>	<b>PEDS 502 B</b>	Pedale 5/2 1/4" bistabile senza protezione <i>Bi-stable pedal valve 5/2 1/4" without protection cover</i>	
<b>01.128.4N</b>	<b>PEDS 502 S</b>	Pedale 5/2 1/4" monostabile senza protezione, con fermo di sicurezza* <i>Mono-stable pedal valve 5/2 1/4" without protection cover, with safety feature*</i>	
<b>01.129.4N</b>	<b>PEDS 502 BS</b>	Pedale 5/2 1/4" bistabile senza protezione, con fermo di sicurezza* <i>Bi-stable pedal valve 5/2 1/4" without protection cover, with safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

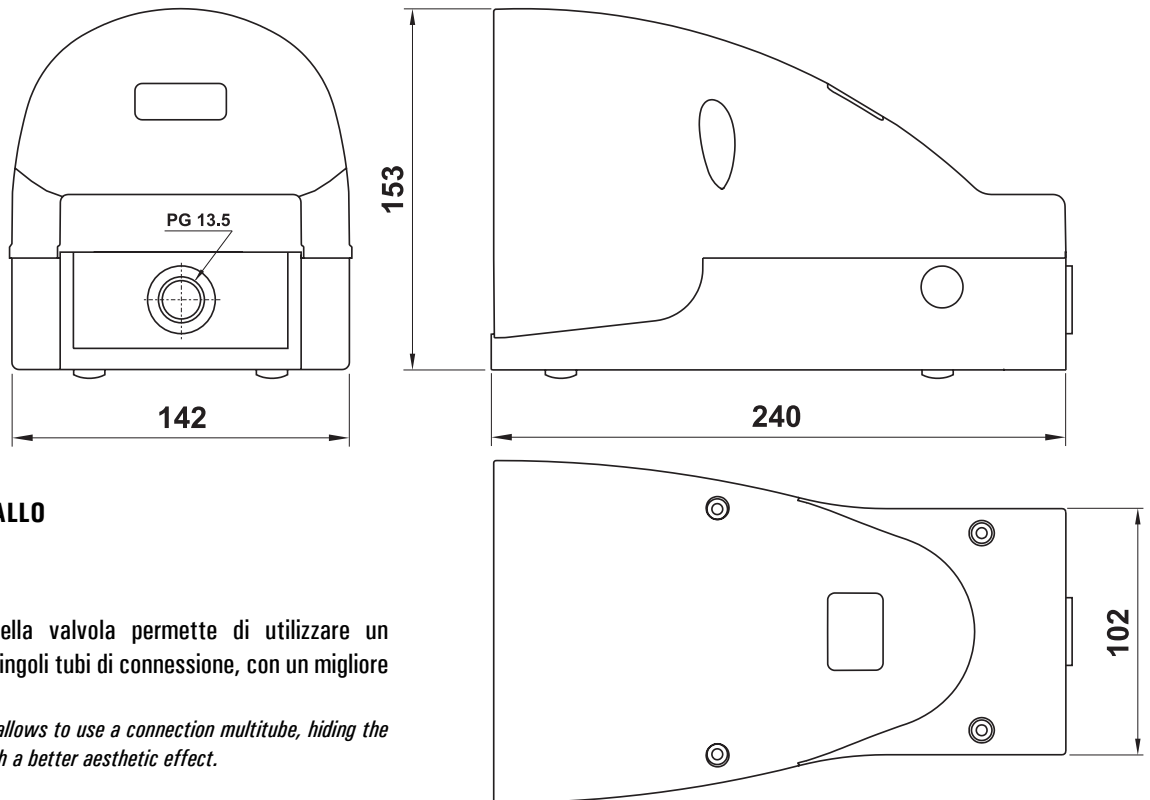
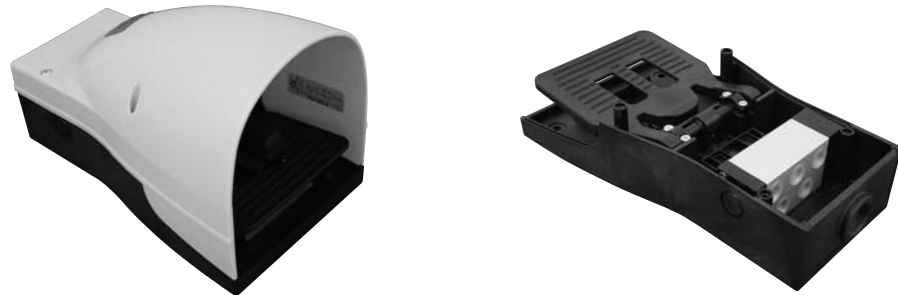
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



## PEDALE CON VALVOLA A SPOLA 5/2 G1/4" - valvola in posizione arretrata pedal with 5/2 G1/4" spool valve - valve in rear position



Colore della copertura: **GIALLO**  
Cover colour: **YELLOW**

La posizione arretrata della valvola permette di utilizzare un multitubo che maschera i singoli tubi di connessione, con un migliore risultato estetico.  
The rear position of the valve allows to use a connection multitube, hiding the single air connection tubes with a better aesthetic effect.

codice code	sigla part number	descrizione description	simbolo symbol
01.135.4N	PED 502 MA	Pedale 5/2 1/4" monostabile con protezione Mono-stable pedal valve 5/2 1/4" with protection cover	
01.136.4N	PED 502 BA	Pedale 5/2 1/4" bistabile con protezione Bi-stable pedal valve 5/2 1/4" with protection cover	
01.137.4N	PED 502 SA	Pedale 5/2 1/4" monostabile con protezione e fermo di sicurezza* Mono-stable pedal valve 5/2 1/4" with protection cover and safety feature*	
01.138.4N	PED 502 BSA	Pedale 5/2 1/4" bistabile con protezione e fermo di sicurezza* Bi-stable pedal valve 5/2 1/4" with protection cover and safety feature*	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

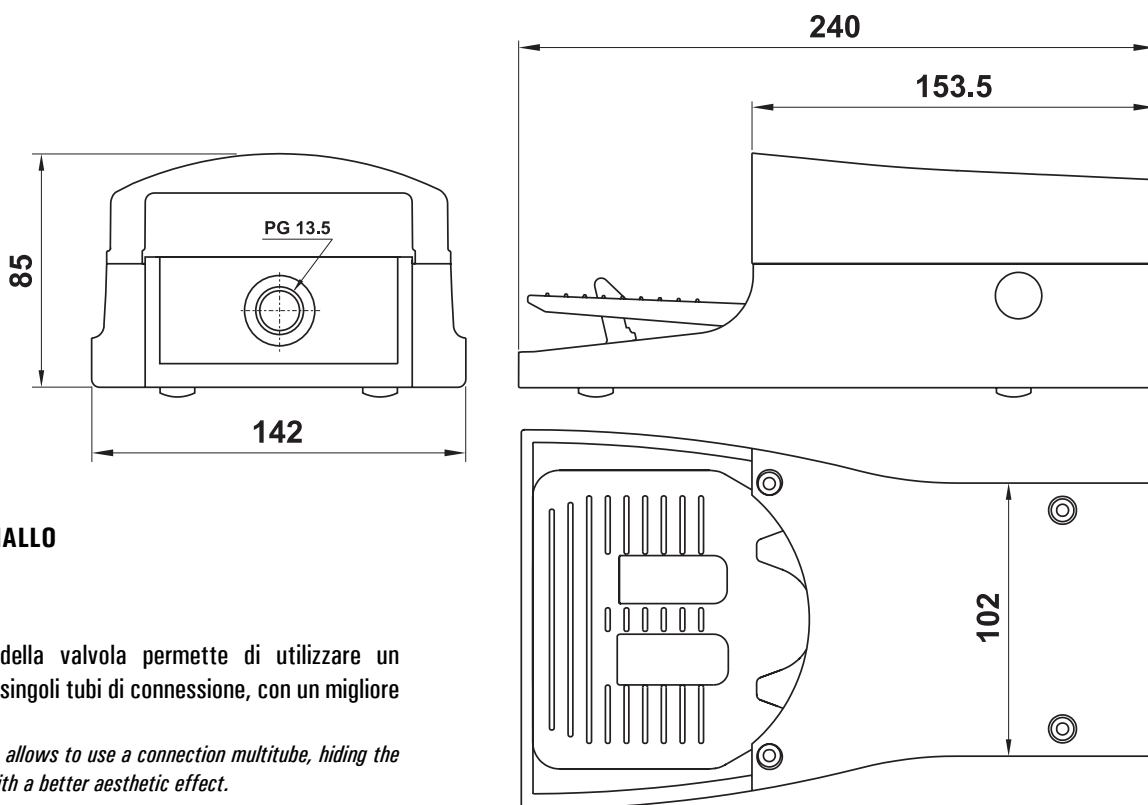
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



## PEDALE CON VALVOLA A SPOLA 5/2 G1/4" - valvola in posizione arretrata - senza protezione pedal with 5/2 G1/4" spool valve - valve in rear position - without protection cover



Colore della copertura: **GIALLO**  
Cover colour: **YELLOW**

La posizione arretrata della valvola permette di utilizzare un multitubo che maschera i singoli tubi di connessione, con un migliore risultato estetico.  
The rear position of the valve allows to use a connection multitube, hiding the single air connection tubes with a better aesthetic effect.

codice code	sigla part number	descrizione description	simbolo symbol
01.139.4N	PEDS 502 MA	Pedale 5/2 1/4" monostabile senza protezione <i>Mono-stable pedal valve 5/2 1/4" without protection cover</i>	
01.140.4N	PEDS 502 BA	Pedale 5/2 1/4" bistabile senza protezione <i>Bi-stable pedal valve 5/2 1/4" without protection cover</i>	
01.141.4N	PEDS 502 SA	Pedale 5/2 1/4" monostabile senza protezione, con fermo di sicurezza* <i>Mono-stable pedal valve 5/2 1/4" without protection cover, with safety feature*</i>	
01.142.4N	PEDS 502 BSA	Pedale 5/2 1/4" bistabile senza protezione, con fermo di sicurezza* <i>Bi-stable pedal valve 5/2 1/4" without protection cover, with safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

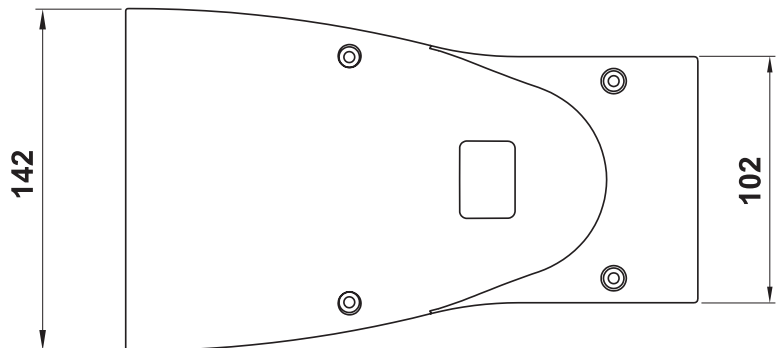
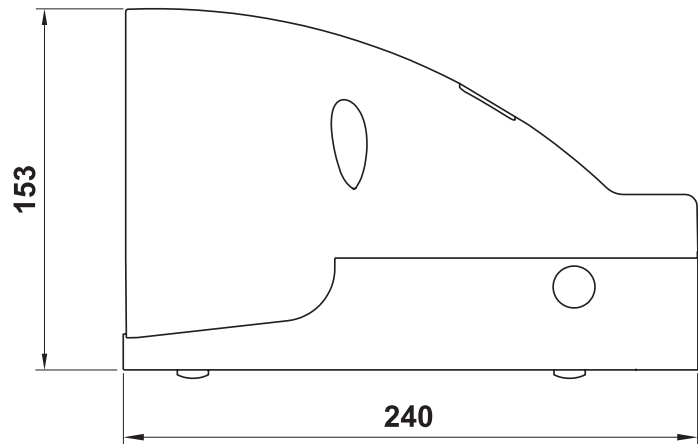
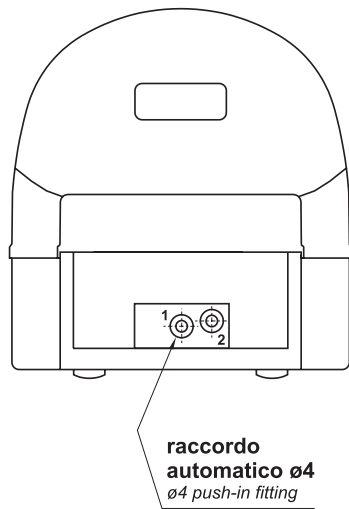
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



## PEDALE CON MICROVALVOLA 3/2 NC, raccordi automatici tubo ø4 pedal with 3/2 NC microvalve, push-in fittings for ø4 tube



Colore della copertura: **GIALLO**  
Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.197.4N</b>	<b>PEDN 304 M</b>	Pedale 3/2 NC tubo ø4 - monostabile con protezione <i>Mono-stable pedal valve 3/2 NC, push-in fittings ø4, with protection cover</i>	
<b>08.198.4N</b>	<b>PEDN 304 B</b>	Pedale 3/2 NC tubo ø4 - bistabile con protezione <i>Bi-stable pedal valve 3/2 NC, push-in fittings ø4, with protection cover</i>	
<b>08.207.4N</b>	<b>PEDN 304 S</b>	Pedale 3/2 NC tubo ø4 - monostabile con protezione e fermo di sicurezza* <i>Mono-stable pedal valve 3/2 NC, push-in fittings ø4, with protection cover and safety feature*</i>	
<b>08.209.4N</b>	<b>PEDN 304 BS</b>	Pedale 3/2 NC tubo ø4 - bistabile con protezione e fermo di sicurezza* <i>Bi-stable pedal valve 3/2 NC, push-in fittings ø4, with protection cover and safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

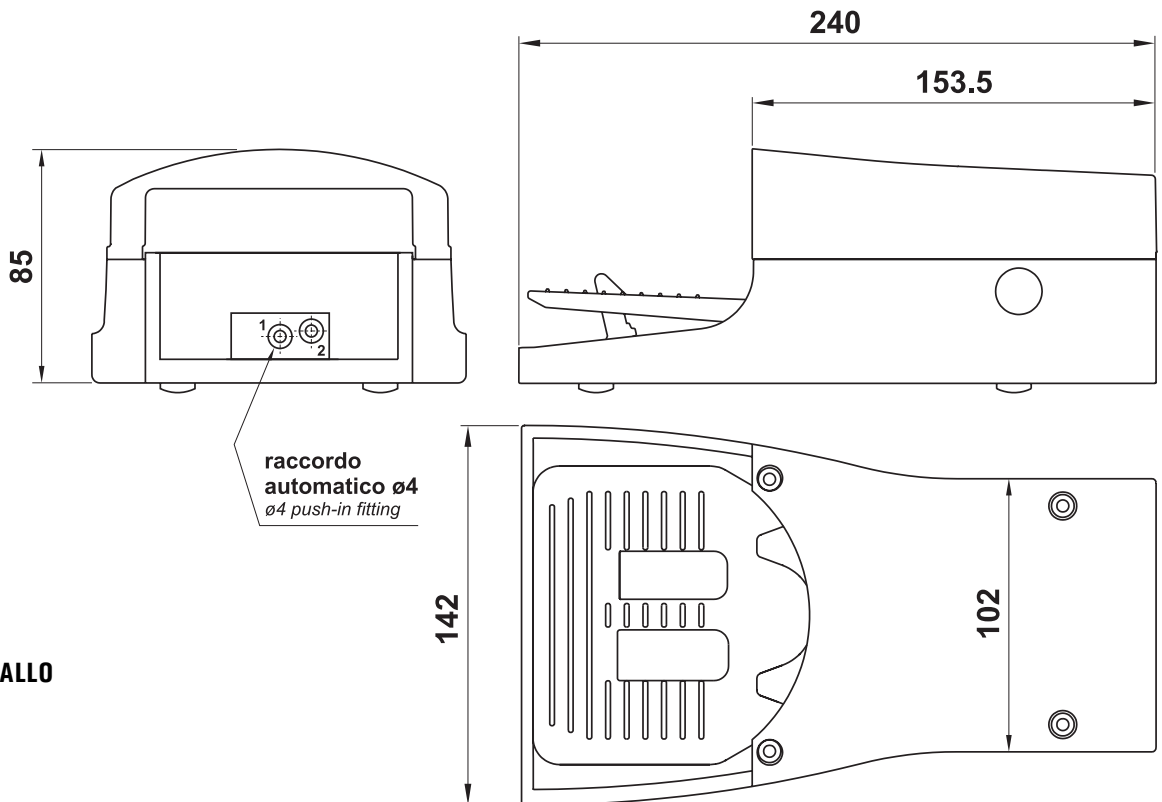
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



**PEDALE CON MICROVALVOLA 3/2 NC, raccordi automatici tubo  $\varnothing 4$  - senza protezione**  
*pedal with 3/2 NC microvalve, push-in fittings for  $\varnothing 4$  tube - without protection cover*



Colore della copertura: **GIALLO**  
 Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.307.4N</b>	<b>PEDS 304 M</b>	Pedale 3/2 NC tubo $\varnothing 4$ - monostabile senza protezione <i>Mono-stable pedal valve 3/2 NC, push-in fittings <math>\varnothing 4</math>, without protection cover</i>	
<b>08.308.4N</b>	<b>PEDS 304 B</b>	Pedale 3/2 NC tubo $\varnothing 4$ - bistabile senza protezione <i>Bi-stable pedal valve 3/2 NC, push-in fittings <math>\varnothing 4</math>, without protection cover</i>	
<b>08.309.4N</b>	<b>PEDS 304 S</b>	Pedale 3/2 NC tubo $\varnothing 4$ - monost. senza protezione, con fermo di sicurezza* <i>Mono-stable pedal valve 3/2 NC, push-in fittings <math>\varnothing 4</math>, without protection cover, with safety feature*</i>	
<b>08.310.4N</b>	<b>PEDS 304 BS</b>	Pedale 3/2 NC tubo $\varnothing 4$ - bistabile senza protezione, con fermo di sicurezza* <i>Bi-stable pedal valve 3/2 NC, push-in fittings <math>\varnothing 4</math>, without protection cover, with safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

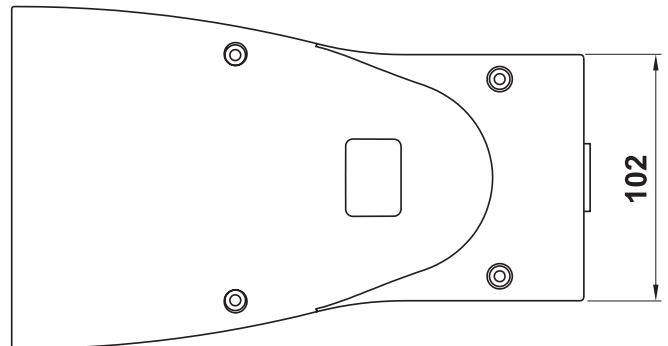
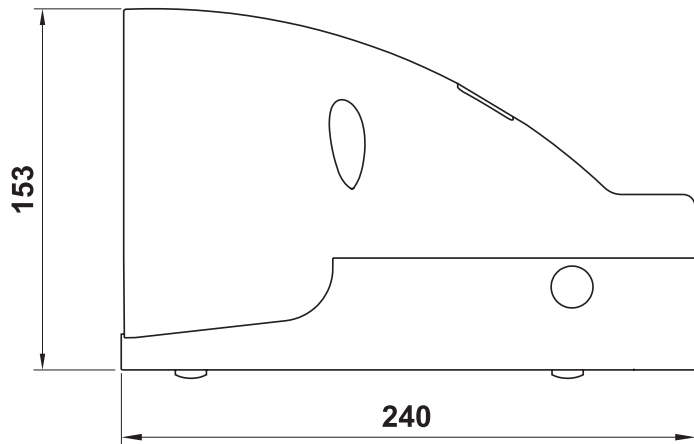
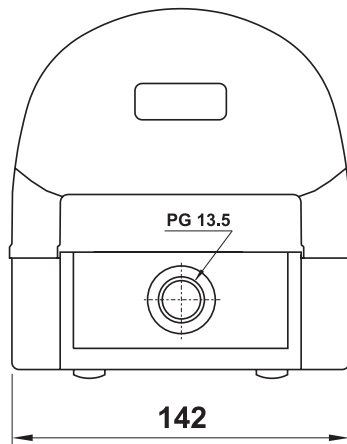
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



**PEDALE CON MICROVALVOLA 3/2 NC, raccordi automatici tubo  $\varnothing 4$  - valvola in posizione arretrata**  
**pedal with 3/2 NC microvalve, push-in fittings for  $\varnothing 4$  tube - valve in rear position**



Colore della copertura: **GIALLO**  
 Cover colour: **YELLOW**

La posizione arretrata della valvola permette di utilizzare un multitubo che maschera i singoli tubi di connessione, con un migliore risultato estetico.  
 The rear position of the valve allows to use a connection multitube, hiding the single air connection tubes with a better aesthetic effect.

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.311.4N</b>	<b>PEDN 304 MA</b>	Pedale 3/2 NC tubo $\varnothing 4$ - monostabile con protezione Mono-stable pedal valve 3/2 NC, push-in fittings $\varnothing 4$ , with protection cover	
<b>08.312.4N</b>	<b>PEDN 304 BA</b>	Pedale 3/2 NC tubo $\varnothing 4$ - bistabile con protezione Bi-stable pedal valve 3/2 NC, push-in fittings $\varnothing 4$ , with protection cover	
<b>08.313.4N</b>	<b>PEDN 304 SA</b>	Pedale 3/2 NC tubo $\varnothing 4$ - monostabile con protezione e fermo di sicurezza* Mono-stable pedal valve 3/2 NC, push-in fittings $\varnothing 4$ , with protection cover and safety feature*	
<b>08.314.4N</b>	<b>PEDN 304 BSA</b>	Pedale 3/2 NC tubo $\varnothing 4$ - bistabile con protezione e fermo di sicurezza* Bi-stable pedal valve 3/2 NC, push-in fittings $\varnothing 4$ , with protection cover and safety feature*	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

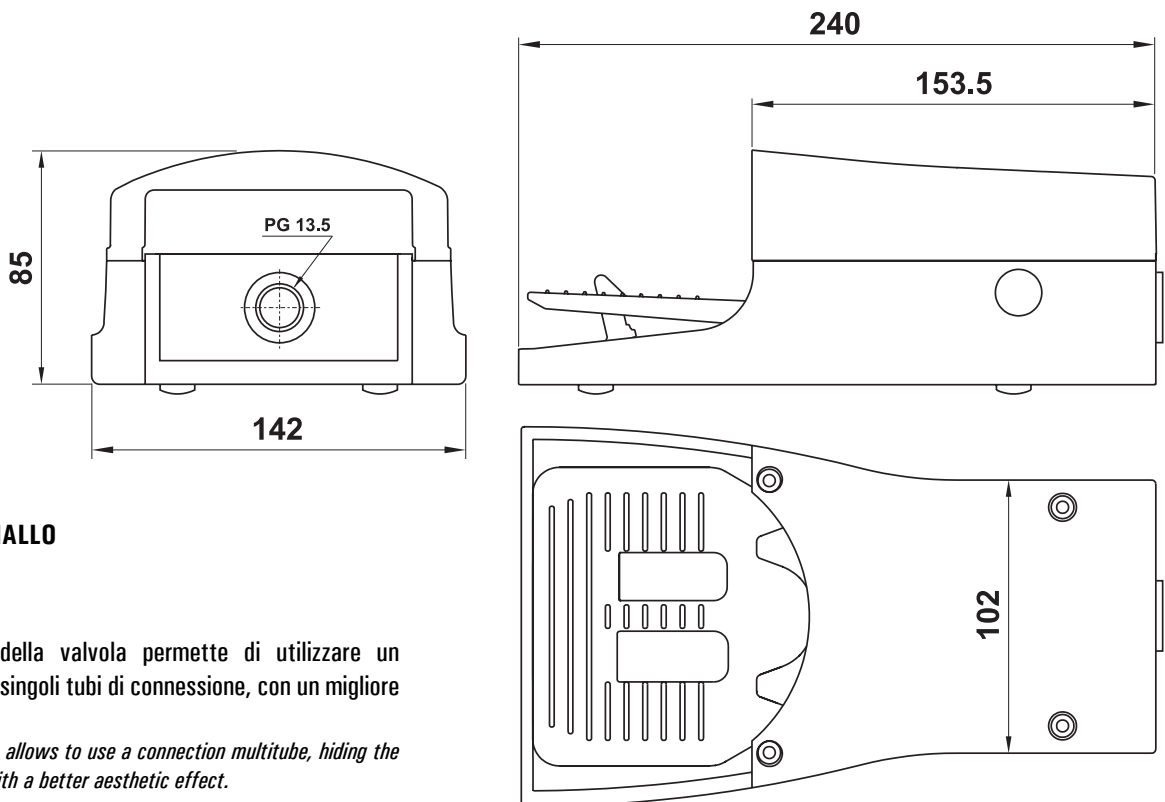
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



**PEDALE CON MICROVALVOLA 3/2 NC, racc. autom. ø4 - valvola in posizione arretrata - senza protezione**  
**pedal with 3/2 NC microvalve, push-in fittings for ø4 tube - valve in rear position - without protection cover**



Colore della copertura: **GIALLO**  
 Cover colour: **YELLOW**

La posizione arretrata della valvola permette di utilizzare un multitubo che maschera i singoli tubi di connessione, con un migliore risultato estetico.  
 The rear position of the valve allows to use a connection multitube, hiding the single air connection tubes with a better aesthetic effect.

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.315.4N</b>	<b>PEDS 304 MA</b>	Pedale 3/2 NC tubo ø4 - monostabile senza protezione <i>Mono-stable pedal valve 3/2 NC, push-in fittings ø4, without protection cover</i>	
<b>08.316.4N</b>	<b>PEDS 304 BA</b>	Pedale 3/2 NC tubo ø4 - bistabile senza protezione <i>Bi-stable pedal valve 3/2 NC, push-in fittings ø4, without protection cover</i>	
<b>08.317.4N</b>	<b>PEDS 304 SA</b>	Pedale 3/2 NC tubo ø4 - monost. senza protezione, con fermo di sicurezza* <i>Mono-stable pedal valve 3/2 NC, push-in fittings ø4, without protection cover, with safety feature*</i>	
<b>08.318.4N</b>	<b>PEDS 304 BSA</b>	Pedale 3/2 NC tubo ø4 - bistabile senza protezione, con fermo di sicurezza* <i>Bi-stable pedal valve 3/2 NC, push-in fittings ø4, without protection cover, with safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

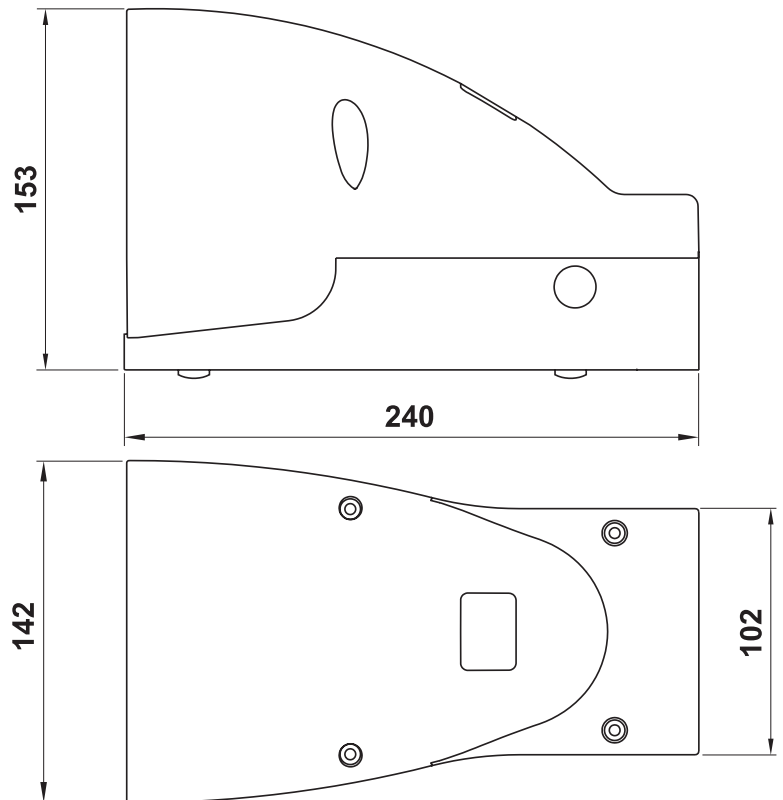
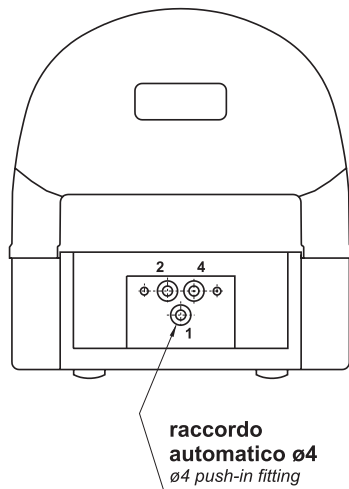
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



## PEDALE CON MICROVALVOLA 5/2, raccordi automatici tubo ø4 pedal with 5/2 microvalve, push-in fittings for ø4 tube



Colore della copertura: **GIALLO**  
Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.303.4N</b>	<b>PED 504 M</b>	Pedale 5/2 tubo ø4 - monostabile con protezione <i>Mono-stable pedal valve 5/2, push-in fittings ø4, with protection cover</i>	
<b>08.304.4N</b>	<b>PED 504 B</b>	Pedale 5/2 tubo ø4 - bistabile con protezione <i>Bi-stable pedal valve 5/2, push-in fittings ø4, with protection cover</i>	
<b>08.305.4N</b>	<b>PED 504 S</b>	Pedale 5/2 tubo ø4 - monostabile con protezione e fermo di sicurezza* <i>Mono-stable pedal valve 5/2, push-in fittings ø4, with protection cover and safety feature*</i>	
<b>08.306.4N</b>	<b>PED 504 BS</b>	Pedale 5/2 tubo ø4 - bistabile con protezione e fermo di sicurezza* <i>Bi-stable pedal valve 5/2, push-in fittings ø4, with protection cover and safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

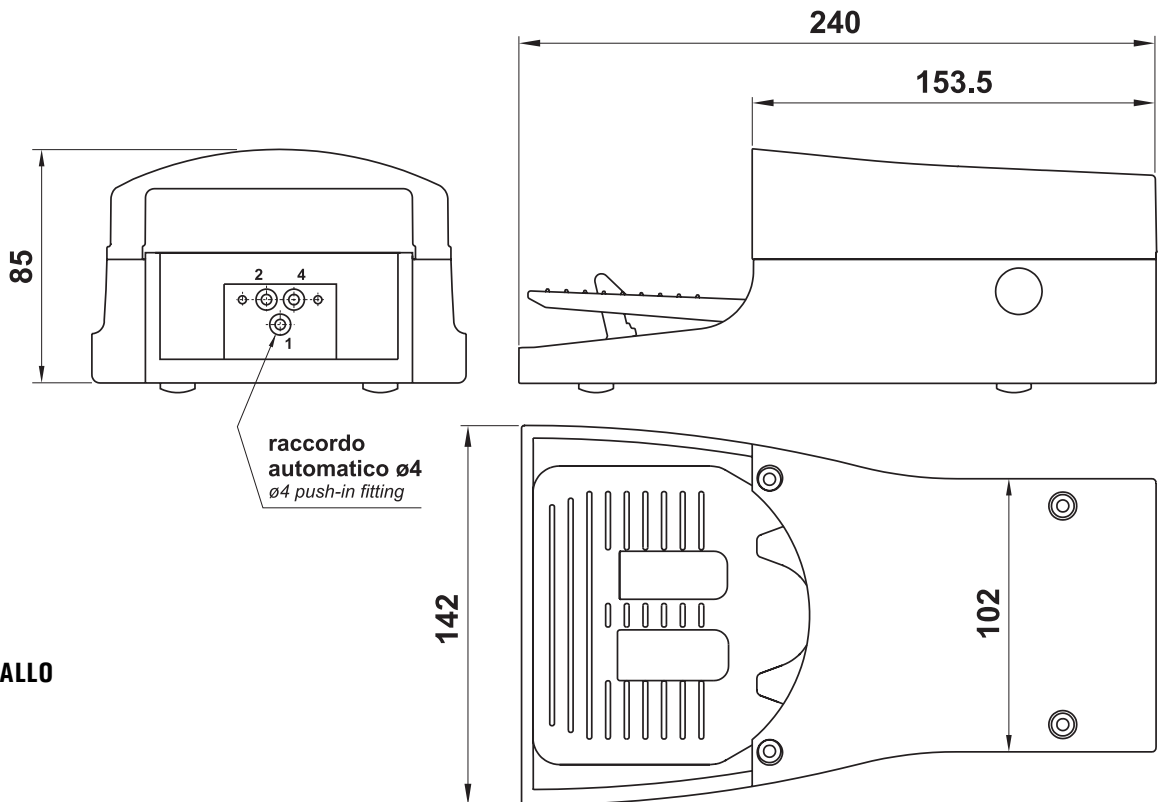
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



**PEDALE CON MICROVALVOLA 5/2, raccordi automatici tubo  $\varnothing 4$  - senza protezione**  
*pedal with 5/2 microvalve, push-in fittings for  $\varnothing 4$  tube - without protection cover*



Colore della copertura: **GIALLO**  
 Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.319.4N</b>	<b>PEDS 504 M</b>	Pedale 5/2 tubo $\varnothing 4$ - monostabile senza protezione <i>Mono-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, without protection cover</i>	
<b>08.320.4N</b>	<b>PEDS 504 B</b>	Pedale 5/2 tubo $\varnothing 4$ - bistabile senza protezione <i>Bi-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, without protection cover</i>	
<b>08.321.4N</b>	<b>PEDS 504 S</b>	Pedale 5/2 tubo $\varnothing 4$ - monostabile senza protezione, con fermo di sicurezza* <i>Mono-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, without protection cover, with safety feature*</i>	
<b>08.322.4N</b>	<b>PEDS 504 BS</b>	Pedale 5/2 tubo $\varnothing 4$ - bistabile senza protezione, con fermo di sicurezza* <i>Bi-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, without protection cover, with safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

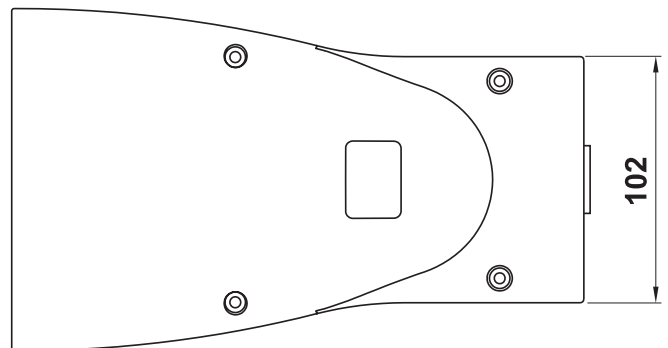
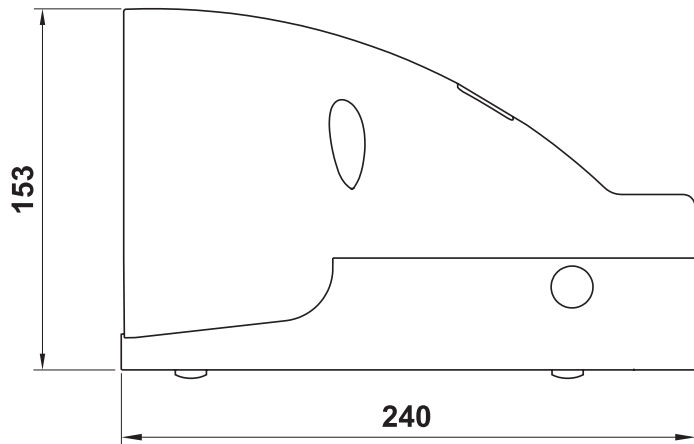
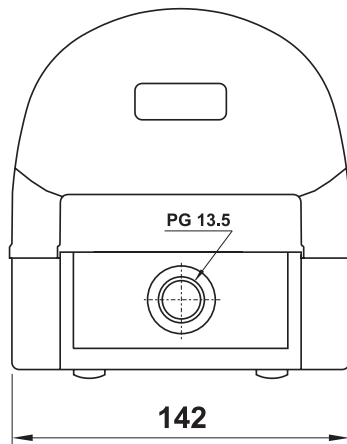
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



**PEDALE CON MICROVALVOLA 5/2, raccordi automatici tubo  $\varnothing 4$  - valvola in posizione arretrata**  
**pedal with 5/2 microvalve, push-in fittings for  $\varnothing 4$  tube - valve in rear position**



Colore della copertura: **GIALLO**  
 Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.323.4N</b>	<b>PED 504 MA</b>	Pedale 5/2 tubo $\varnothing 4$ - monostabile con protezione <i>Mono-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, with protection cover</i>	
<b>08.324.4N</b>	<b>PED 504 BA</b>	Pedale 5/2 tubo $\varnothing 4$ - bistabile con protezione <i>Bi-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, with protection cover</i>	
<b>08.325.4N</b>	<b>PED 504 SA</b>	Pedale 5/2 tubo $\varnothing 4$ - monostabile con protezione e fermo di sicurezza* <i>Mono-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, with protection cover and safety feature*</i>	
<b>08.326.4N</b>	<b>PED 504 BSA</b>	Pedale 5/2 tubo $\varnothing 4$ - bistabile con protezione e fermo di sicurezza* <i>Bi-stable pedal valve 5/2, push-in fittings <math>\varnothing 4</math>, with protection cover and safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

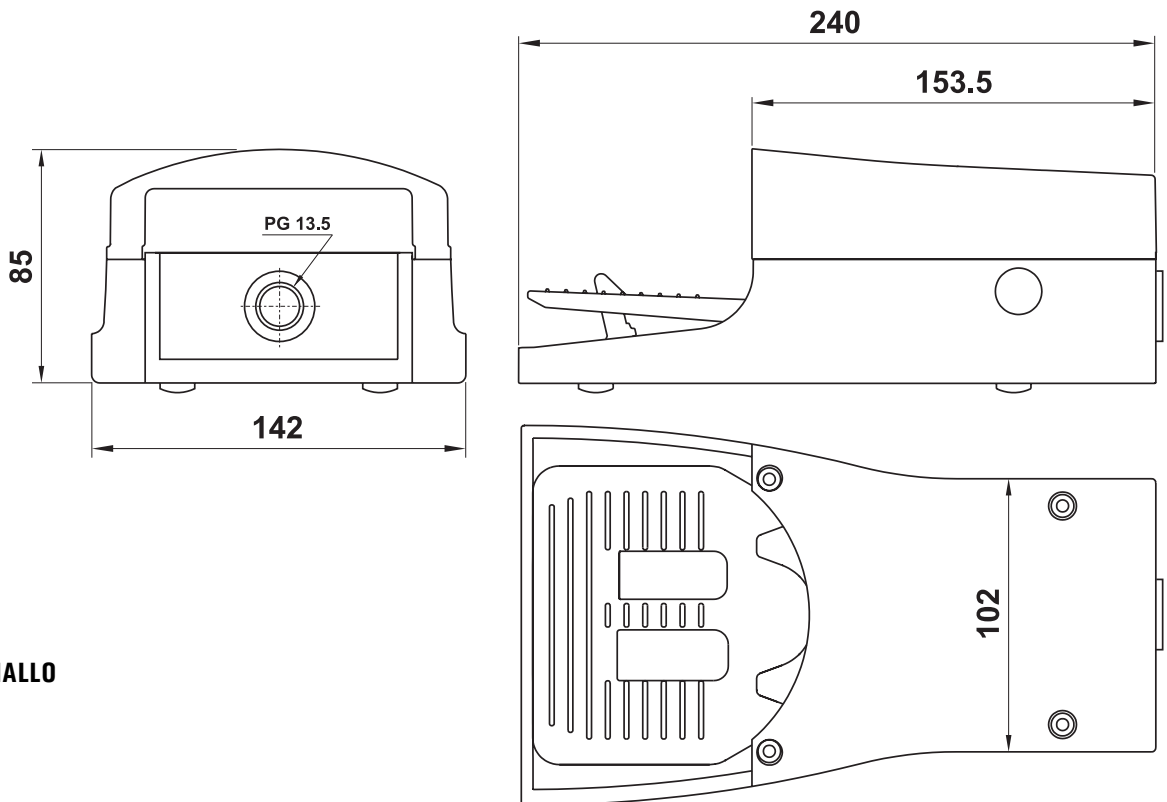
\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



**PEDALE CON MICROVALVOLA 5/2, racc. autom. ø4 - valvola in posizione arretrata - senza protezione**  
*pedal with 5/2 microvalve, push-in fittings for ø4 tube - valve in rear position - without protection cover*



Colore della copertura: **GIALLO**  
 Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>08.327.4N</b>	<b>PEDS 504 MA</b>	Pedale 5/2 tubo ø4 - monostabile senza protezione <i>Mono-stable pedal valve 5/2, push-in fittings ø4, without protection cover</i>	
<b>08.328.4N</b>	<b>PEDS 504 BA</b>	Pedale 5/2 tubo ø4 - bistabile senza protezione <i>Bi-stable pedal valve 5/2, push-in fittings ø4, without protection cover</i>	
<b>08.329.4N</b>	<b>PEDS 504 SA</b>	Pedale 5/2 tubo ø4 - monostabile senza protezione, con fermo di sicurezza* <i>Mono-stable pedal valve 5/2, push-in fittings ø4, without protection cover, with safety feature*</i>	
<b>08.330.4N</b>	<b>PEDS 504 BSA</b>	Pedale 5/2 tubo ø4 - bistabile senza protezione, con fermo di sicurezza* <i>Bi-stable pedal valve 5/2, push-in fittings ø4, without protection cover, with safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

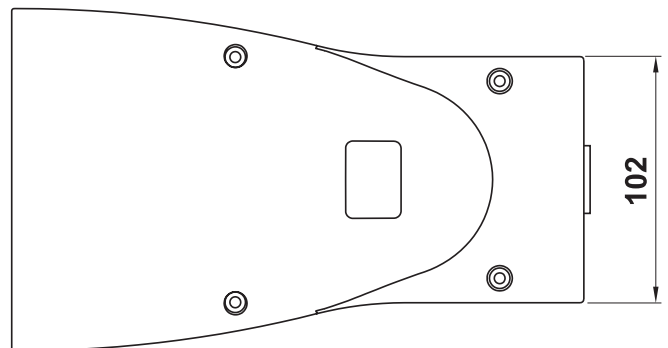
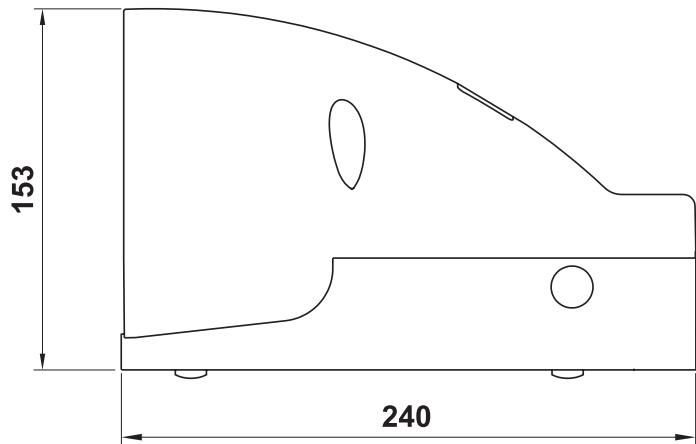
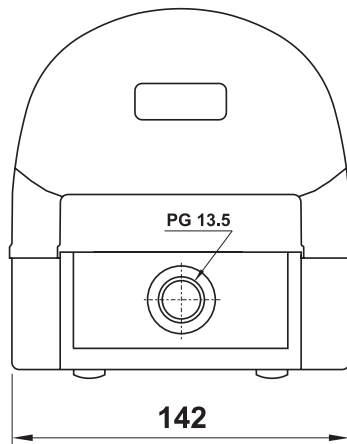
# valvole a pedale

pedal valves



## PEDALE CON CONTATTO ELETTRICO NC-NA

pedal with electric contact NC-NO



Colore della copertura: **GIALLO**

Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>01.087.4N</b>	<b>PED EM</b>	Pedale contatto elettrico NC-NA, monostabile con protezione <i>Mono-stable pedal with electric contact NC-NO, with protection cover</i>	
<b>01.115.4N</b>	<b>PED EB</b>	Pedale contatto elettrico NC-NA, bistabile con protezione <i>Bi-stable pedal with electric contact NC-NO, with protection cover</i>	
<b>01.088.4N</b>	<b>PED ES</b>	Pedale contatto elettrico NC-NA, monostabile con protezione e fermo di sicurezza* <i>Mono-stable pedal with electric contact NC-NO, with protection cover and safety feature*</i>	
<b>01.127.4N</b>	<b>PED EBS</b>	Pedale contatto elettrico NC-NA, bistabile con protezione e fermo di sicurezza* <i>Bi-stable pedal with electric contact NC-NO, with protection cover and safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

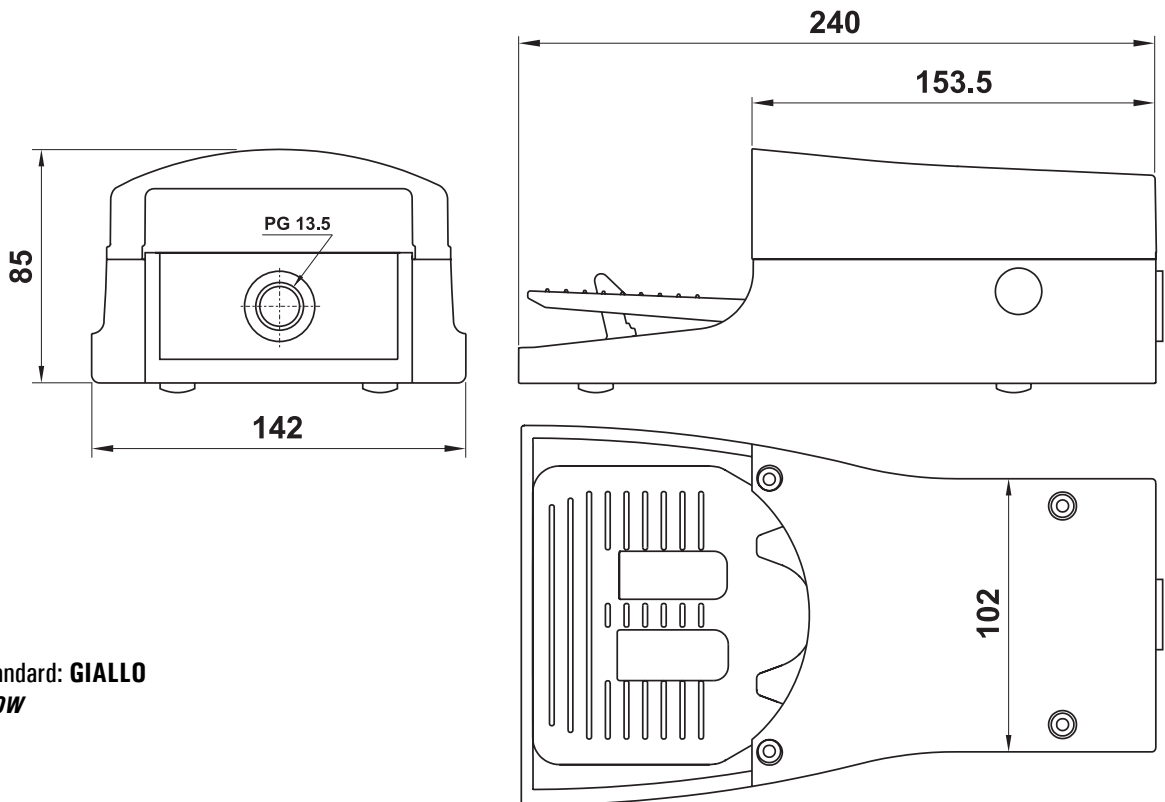
# valvole a pedale

pedal valves



## PEDALE CON CONTATTO ELETTRICO NC-NA senza protezione

pedal with electric contact NC-NO - without protection cover



Colore della copertura standard: **GIALLO**

Standard cover colour: **YELLOW**

codice code	sigla part number	descrizione description		simbolo symbol
<b>01.143.4N</b>	<b>PEDS EM</b>	Pedale contatto elettrico NC-NA, monostabile senza protezione <i>Mono-stable pedal with electric contact NC-NO, without protection cover</i>		
<b>01.144.4N</b>	<b>PEDS EB</b>	giallo - yellow	Pedale contatto elettrico NC-NA, bistabile senza protezione <i>Bi-stable pedal with electric contact NC-NO, without protection cover</i>	
<b>01.161.4N</b>	<b>PEDS EBR</b>	rosso - red		
<b>01.145.4N</b>	<b>PEDS ES</b>	Pedale contatto elettr. NC-NA, monost. senza protezione, con fermo di sicurezza* <i>Mono-stable pedal with electric contact NC-NO, without protection cover, with safety feature*</i>		
<b>01.146.4N</b>	<b>PEDS EBS</b>	Pedale contatto elettr. NC-NA, bistabile senza protezione, con fermo di sicurezza* <i>Bi-stable pedal with electric contact NC-NO, without protection cover, with safety feature*</i>		

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

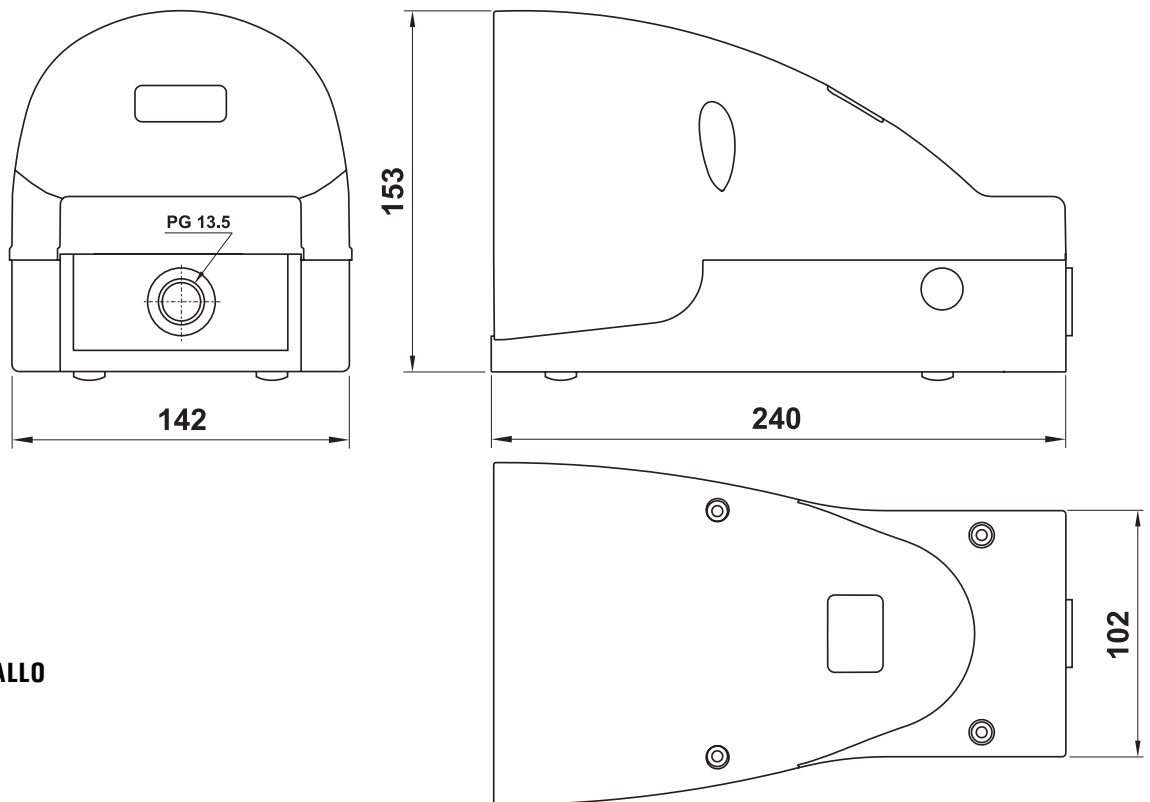
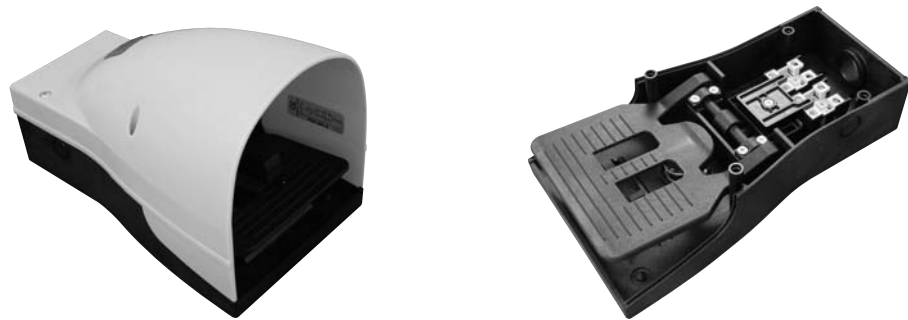
# valvole a pedale

pedal valves



## PEDALE CON DOPPIO CONTATTO ELETTRICO NC-NA

pedal with double electric contact NC-NO



Colore della copertura: **GIALLO**

Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>01.148.4N</b>	<b>PED EEM</b>	Pedale doppio contatto elettrico NC-NA, monostabile con protezione <i>Mono-stable pedal with double electric contact NC-NO, with protection cover</i>	
<b>01.149.4N</b>	<b>PED EEB</b>	Pedale doppio contatto elettrico NC-NA, bistabile con protezione <i>Bi-stable pedal with double electric contact NC-NO, with protection cover</i>	
<b>01.150.4N</b>	<b>PED EES</b>	Pedale doppio cont. elettr. NC-NA, monostabile con protez. e fermo di sicurezza* <i>Mono-stable pedal with double electric contact NC-NO, with protection cover and safety feature*</i>	
<b>01.151.4N</b>	<b>PED EEBS</b>	Pedale doppio cont. elettr. NC-NA, bistabile con protezione e fermo di sicurezza* <i>Bi-stable pedal with double electric contact NC-NO, with protection cover and safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

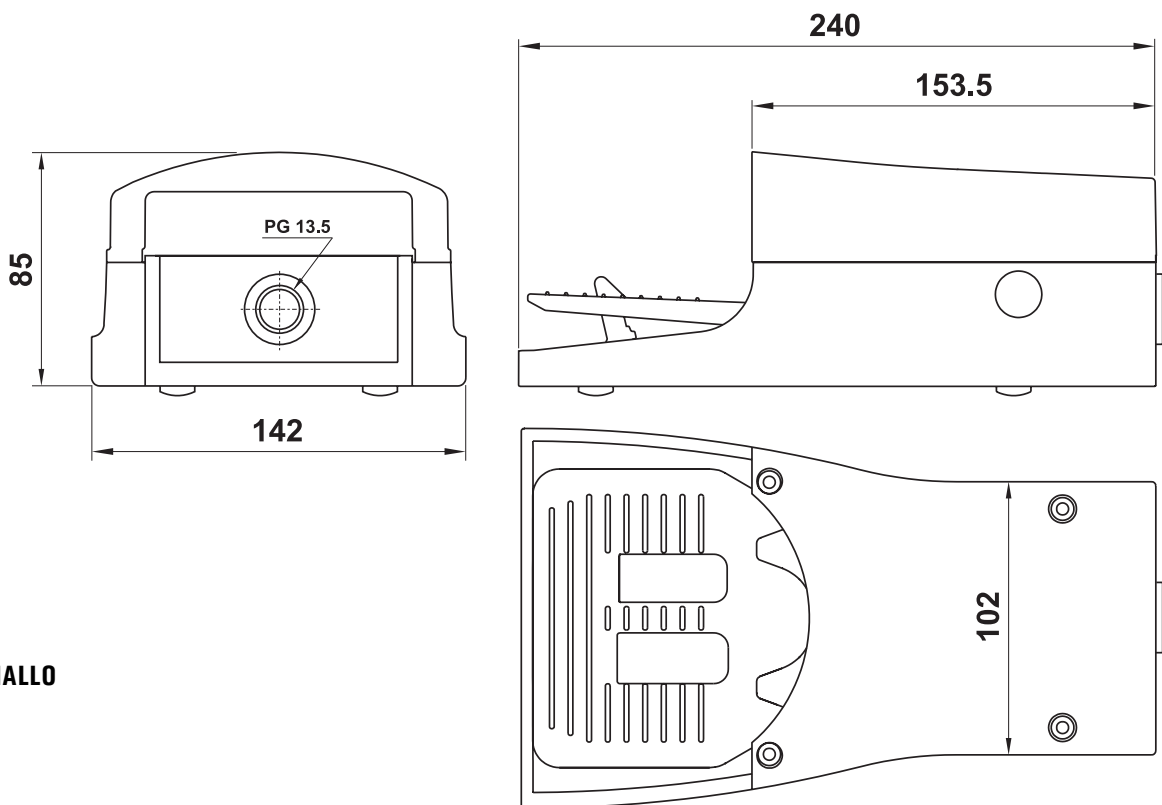
# valvole a pedale

pedal valves



## PEDALE CON DOPPIO CONTATTO ELETTRICO NC-NA senza protezione

pedal with double electric contact NC-NO - without protection cover



Colore della copertura: **GIALLO**

Cover colour: **YELLOW**

codice code	sigla part number	descrizione description	simbolo symbol
<b>01.152.4N</b>	<b>PEDS EEM</b>	Pedale doppio contatto elettrico NC-NA, monostabile senza protezione <i>Mono-stable pedal with double electric contact NC-NO, without protection cover</i>	
<b>01.153.4N</b>	<b>PEDS EEB</b>	Pedale doppio contatto elettrico NC-NA, bistabile senza protezione <i>Bi-stable pedal with double electric contact NC-NO, without protection cover</i>	
<b>01.154.4N</b>	<b>PEDS EES</b>	Pedale doppio cont. elettr. NC-NA, monost. senza protez., con fermo di sicurezza* <i>Mono-stable pedal with double electric contact NC-NO, without protection cover, with safety feature*</i>	
<b>01.155.4N</b>	<b>PEDS EEBS</b>	Pedale doppio cont. elettr. NC-NA, bist. senza protezione, con fermo di sicurezza* <i>Bi-stable pedal with double electric contact NC-NO, without protection cover, with safety feature*</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves

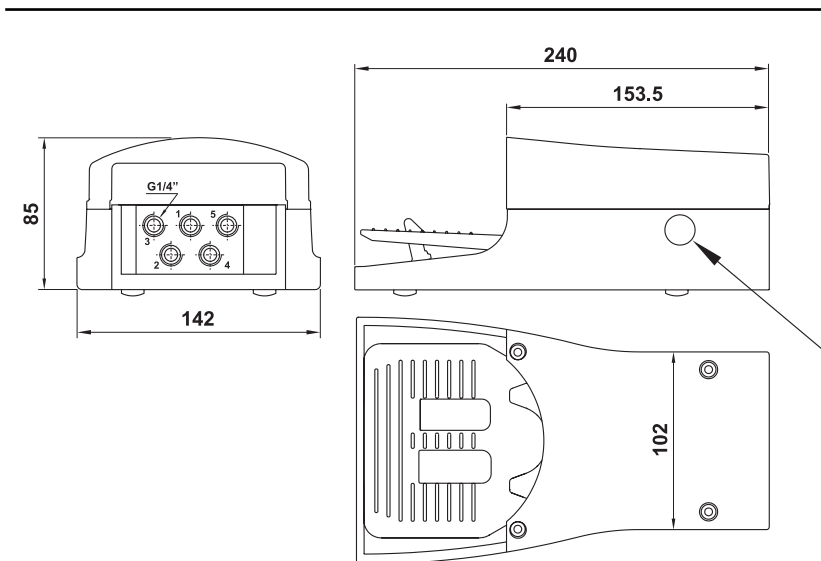
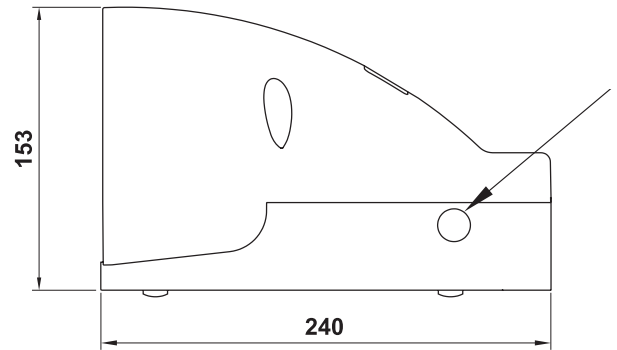
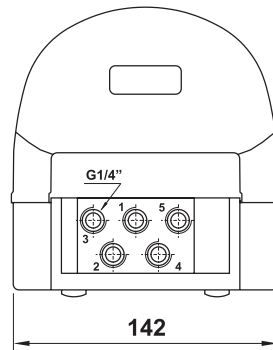


## PEDALE CON PULSANTE DI RIARMO

pedal with reset button



Colore della copertura: **GIALLO**  
Cover colour: **YELLOW**



**Pulsante di riarmo:** dopo aver collegato l'aria di alimentazione, per attivare la valvola è necessario premere sul pulsante, altrimenti la valvola non funziona. La stessa operazione è necessaria per far ripartire la valvola dopo un'eventuale mancanza o interruzione dell'aria di alimentazione.

**Reset button:** after connecting air supply, to activate the valve it is necessary to push the button, otherwise the pedal valve does not function. The same operation is necessary to re-start the valve if air supply was interrupted or missing.

codice code	sigla part number	descrizione description	simbolo symbol
<b>01.125.4N</b>	<b>PED 502 SR</b>	Pedale 5/2 1/4" monostabile con protezione, con fermo di sicurezza* e pulsante di riarmo <i>Mono-stable pedal valve 5/2 1/4" with protection cover, safety feature* and reset button</i>	
<b>01.147.4N</b>	<b>PEDS 502 SR</b>	Pedale 5/2 1/4" monostabile senza protezione, con fermo di sicurezza* e pulsante di riarmo <i>Mono-stable pedal valve 5/2 1/4" without protection cover, with safety feature* and with reset button</i>	

\* **Fermo di sicurezza:** per azionare la valvola è necessario premere a fondo sul pedale, evitando così azionamenti accidentali.

\* **Safety feature:** to avoid accidental operation the pedal must be fully depressed.

# valvole a pedale

pedal valves



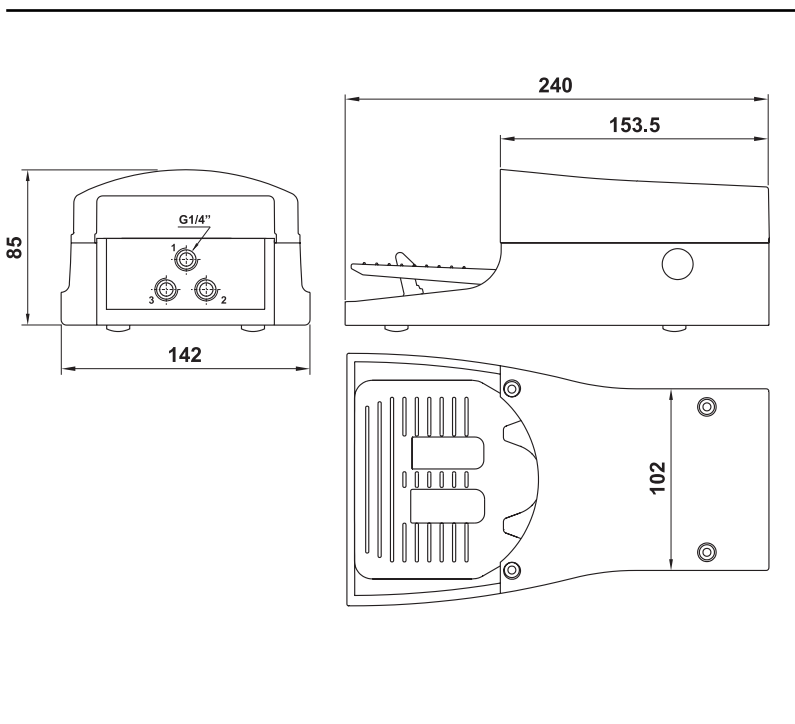
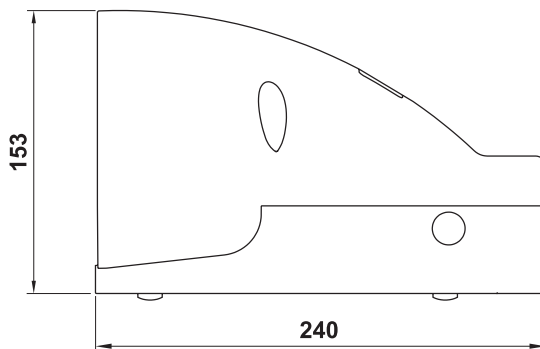
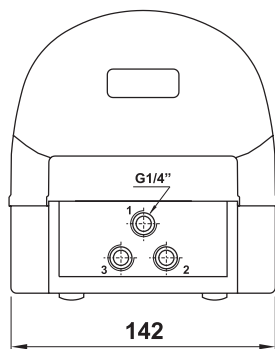
## PEDALE A PORTATA PROGRESSIVA

pedal with progressive flow rate

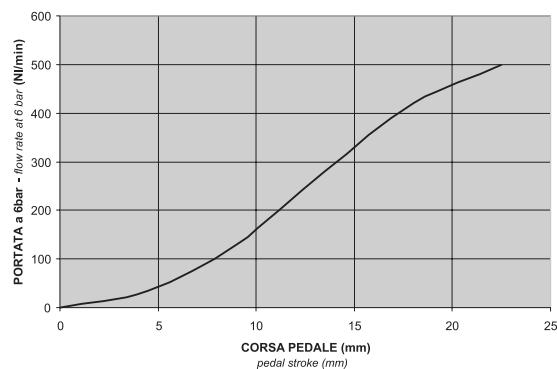


Colore della copertura: **GIALLO**

Cover colour: **YELLOW**



Portata della valvola in funzione della corsa del pedale  
Valve flow rate related to pedal stroke



codice code	sigla part number	descrizione description	simbolo symbol
01.133.4N	PED 302 P	Pedale 3/2 NC 1/4" monostabile portata progressiva, con protezione Mono-stable pedal valve 3/2 NC 1/4" progressive flow rate, with protection cover	
01.156.4N	PEDS 302 P	Pedale 3/2 NC 1/4" monostabile portata progressiva, senza protezione Mono-stable pedal valve 3/2 NC 1/4" progressive flow rate, without protection cover	

**Attenzione:** la valvola non può essere utilizzata come normalmente aperta.

**Attention:** the valve cannot be used as normally open.

# valvole a pedale

pedal valves



## PEDALE DOPPIO

double pedal



I due pedali sono connessi con apposita piastra di congiunzione in alluminio. L'asta è in acciaio cromato  $\varnothing 10$ , altezza mm 700  
The two pedals are connected by a connecting block (aluminium). The material of the stick is hard chromed steel  $\varnothing 10$ , height mm 700

codice code	sigla part number	descrizione description
01.157.4N	PED 502 M + PEDS EB	Pedale 5/2 1/4" monostabile con protezione + pedale contatto elettrico NC-NA, bistabile senza protezione Mono-stable pedal valve 5/2 1/4" with protection cover + bi-stable pedal with electric contact NC-NO, without protection cover

Altre combinazioni sono possibili previo accordo con l'ufficio commerciale.  
Other combinations are possible upon agreement with the commercial office.

## ACCESSORI PER MONTAGGIO PEDALE DOPPIO

accessories for assembling of double pedal

Acquistando il blocco di collegamento e l'asta è possibile realizzare autonomamente qualsiasi combinazione di pedali.  
Buying the connecting block and the stick it is possible to make any combination of pedals.

kit piastra di congiunzione  
kit connecting block

01.081.2



asta  $\varnothing 10$  con pomolo; altezza mm 700  
stick  $\varnothing 10$ ; height mm 700

01.080.2



# valvole a pedale

pedal valves



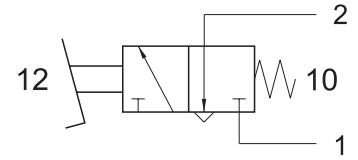
## MINIPEDALE

mini-pedal valve

pedale monostabile con microvalvola 3/2 NC  
mono-stable pedal with microvalve 3/2 NC

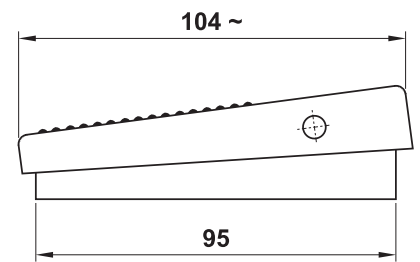
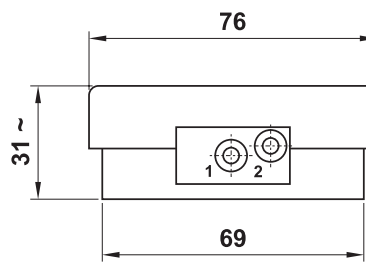
**CODICE DI ORDINAZIONE**  
*ORDER CODE*

**PED 304 M**



Involucro: materiale plastico antiurto  
*Pedal body: shock resistant plastic material*

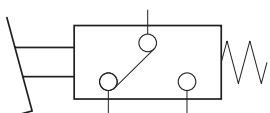
Attacchi <i>Ports</i>	automatici per tubo ø4 <i>ø4 push-in</i>
Portata nominale a 6 bar <i>Nominal flow rate at 6 bar</i>	100 NI/min



pedale elettrico con cavo 2 m  
*electric pedal with cable 2 m*

**CODICE DI ORDINAZIONE**  
*ORDER CODE*

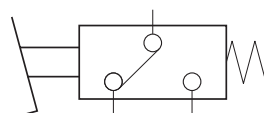
**01.158.4**



pedale elettrico senza cavo  
*electric pedal without cable*

**CODICE DI ORDINAZIONE**  
*ORDER CODE*

**01.159.4**



# indici alfanumerici

product reference directories



sigla part number	codice code	pagina page	sigla part number	codice code	pagina page	sigla part number	codice code	pagina page
PED 502 M	01.052.4N	2	PED 302 P	01.133.4N	19	PED 502 M	01.052.4N	2
PED 502 B	01.053.4N	2	PED 304 M	08.184.4	21	PED 502 B	01.053.4N	2
PED 502 S	01.072.4N	2	PED 502 B	01.053.4N	2	PED 502 S	01.072.4N	2
PED 502 BS	01.126.4N	2	PED 502 BA	01.136.4N	4		01.080.2	20
PEDS 502 M	01.080.4N	3	PED 502 BS	01.126.4N	2	PEDS 502 M	01.080.4N	3
PEDS 502 B	01.081.4N	3	PED 502 BSA	01.138.4N	4		01.081.2	20
PEDS 502 S	01.128.4N	3	PED 502 M	01.052.4N	2	PEDS 502 B	01.081.4N	3
PEDS 502 BS	01.129.4N	3	PED 502 M+PEDS EB	01.157.4N	20	PED EM	01.087.4N	14
PED 502 MA	01.135.4N	4	PED 502 MA	01.135.4N	4	PED ES	01.088.4N	14
PED 502 BA	01.136.4N	4	PED 502 S	01.072.4N	2	PED EB	01.115.4N	14
PED 502 SA	01.137.4N	4	PED 502 SA	01.137.4N	4	PED 502 SR	01.125.4N	18
PED 502 BSA	01.138.4N	4	PED 502 SR	01.125.4N	18	PED 502 BS	01.126.4N	2
PEDS 502 MA	01.139.4N	5	PED 504 B	08.304.4N	10	PED EBS	01.127.4N	14
PEDS 502 BA	01.140.4N	5	PED 504 BA	08.324.4N	12	PEDS 502 S	01.128.4N	3
PEDS 502 SA	01.141.4N	5	PED 504 BS	08.306.4N	10	PEDS 502 BS	01.129.4N	3
PEDS 502 BSA	01.142.4N	5	PED 504 BSA	08.326.4N	12	PED 302 P	01.133.4N	19
PEDN 304 M	08.197.4N	6	PED 504 M	08.303.4N	10	PED 502 MA	01.135.4N	4
PEDN 304 B	08.198.4N	6	PED 504 MA	08.323.4N	12	PED 502 BA	01.136.4N	4
PEDN 304 S	08.207.4N	6	PED 504 S	08.305.4N	10	PED 502 SA	01.137.4N	4
PEDN 304 BS	08.209.4N	6	PED 504 SA	08.325.4N	12	PED 502 BSA	01.138.4N	4
PEDS 304 M	08.307.4N	7	PED EB	01.115.4N	14	PEDS 502 MA	01.139.4N	5
PEDS 304 B	08.308.4N	7	PED EBS	01.127.4N	14	PEDS 502 BA	01.140.4N	5
PEDS 304 S	08.309.4N	7	PED EEB	01.149.4N	16	PEDS 502 SA	01.141.4N	5
PEDS 304 BS	08.310.4N	7	PED EEBS	01.151.4N	16	PEDS 502 BSA	01.142.4N	5
PEDN 304 MA	08.311.4N	8	PED EEM	01.148.4N	16	PEDS EM	01.143.4N	15
PEDN 304 BA	08.312.4N	8	PED EES	01.150.4N	16	PEDS EB	01.144.4N	15
PEDN 304 SA	08.313.4N	8	PED EM	01.087.4N	14	PEDS ES	01.145.4N	15
PEDN 304 BSA	08.314.4N	8	PED ES	01.088.4N	14	PEDS EBS	01.146.4N	15
PEDS 304 MA	08.315.4N	9	PEDN 304 B	08.198.4N	6	PEDS 502 SR	01.147.4N	18
PEDS 304 BA	08.316.4N	9	PEDN 304 BA	08.312.4N	8	PED EEM	01.148.4N	16
PEDS 304 SA	08.317.4N	9	PEDN 304 BS	08.209.4N	6	PED EEB	01.149.4N	16
PEDS 304 BSA	08.318.4N	9	PEDN 304 BSA	08.314.4N	8	PED EES	01.150.4N	16
PED 504 M	08.303.4N	10	PEDN 304 M	08.197.4N	6	PED EEBS	01.151.4N	16
PED 504 B	08.304.4N	10	PEDN 304 MA	08.311.4N	8	PEDS EEM	01.152.4N	17
PED 504 S	08.305.4N	10	PEDN 304 S	08.207.4N	6	PEDS EEB	01.153.4N	17
PED 504 BS	08.306.4N	10	PEDN 304 SA	08.313.4N	8	PEDS EES	01.154.4N	17
PEDS 504 M	08.319.4N	11	PEDS 302 P	01.156.4N	19	PEDS EEBS	01.155.4N	17
PEDS 504 B	08.320.4N	11	PEDS 304 B	08.308.4N	7	PEDS 302 P	01.156.4N	19
PEDS 504 S	08.321.4N	11	PEDS 304 BA	08.316.4N	9	PED 502 M+PEDS EB	01.157.4N	20
PEDS 504 BS	08.322.4N	11	PEDS 304 BS	08.310.4N	7		01.158.4	21
PED 504 MA	08.323.4N	12	PEDS 304 BSA	08.318.4N	9		01.159.4	21
PED 504 BA	08.324.4N	12	PEDS 304 M	08.307.4N	7	PEDS EBR	01.161.4N	15
PED 504 SA	08.325.4N	12	PEDS 304 MA	08.315.4N	9	PED 304 M	08.184.4	21
PED 504 BSA	08.326.4N	12	PEDS 304 S	08.309.4N	7	PEDN 304 M	08.197.4N	6
PEDS 504 MA	08.327.4N	13	PEDS 304 SA	08.317.4N	9	PEDN 304 B	08.198.4N	6
PEDS 504 BA	08.328.4N	13	PEDS 502 B	01.081.4N	3	PEDN 304 S	08.207.4N	6
PEDS 504 SA	08.329.4N	13	PEDS 502 BA	01.140.4N	5	PEDN 304 BS	08.209.4N	6
PEDS 504 BSA	08.330.4N	13	PEDS 502 BS	01.129.4N	3	PED 504 M	08.303.4N	10
PED EM	01.087.4N	14	PEDS 502 BSA	01.142.4N	5	PED 504 B	08.304.4N	10
PED EB	01.115.4N	14	PEDS 502 M	01.080.4N	3	PED 504 S	08.305.4N	10
PED ES	01.088.4N	14	PEDS 502 MA	01.139.4N	5	PED 504 BS	08.306.4N	10
PED EBS	01.127.4N	14	PEDS 502 S	01.128.4N	3	PEDS 304 M	08.307.4N	7
PEDS EM	01.143.4N	15	PEDS 502 SA	01.141.4N	5	PEDS 304 B	08.308.4N	7
PEDS EB	01.144.4N	15	PEDS 502 SR	01.147.4N	18	PEDS 304 S	08.309.4N	7
PEDS EBR	01.161.4N	15	PEDS 504 B	08.320.4N	11	PEDS 304 BS	08.310.4N	7
PEDS ES	01.145.4N	15	PEDS 504 BA	08.328.4N	13	PEDN 304 MA	08.311.4N	8
PEDS EBS	01.146.4N	15	PEDS 504 BS	08.322.4N	11	PEDN 304 BA	08.312.4N	8
PED EEM	01.148.4N	16	PEDS 504 BSA	08.330.4N	13	PEDN 304 SA	08.313.4N	8
PED EEB	01.149.4N	16	PEDS 504 M	08.319.4N	11	PEDN 304 BSA	08.314.4N	8
PED EES	01.150.4N	16	PEDS 504 MA	08.327.4N	13	PEDS 304 MA	08.315.4N	9
PED EEBS	01.151.4N	16	PEDS 504 S	08.321.4N	11	PEDS 304 BA	08.316.4N	9
PEDS EEM	01.152.4N	17	PEDS 504 SA	08.329.4N	13	PEDS 304 SA	08.317.4N	9
PEDS EEB	01.153.4N	17	PEDS EB	01.144.4N	15	PEDS 304 BSA	08.318.4N	9
PEDS EES	01.154.4N	17	PEDS EBR	01.161.4N	15	PEDS 504 M	08.319.4N	11
PEDS EEBS	01.155.4N	17	PEDS EBS	01.146.4N	15	PEDS 504 B	08.320.4N	11
PED 502 SR	01.125.4N	18	PEDS EEB	01.153.4N	17	PEDS 504 S	08.321.4N	11
PEDS 502 SR	01.147.4N	18	PEDS EEBS	01.155.4N	17	PEDS 504 BS	08.322.4N	11
PED 302 P	01.133.4N	19	PEDS EEM	01.152.4N	17	PED 504 MA	08.323.4N	12
PEDS 302 P	01.156.4N	19	PEDS EES	01.154.4N	17	PED 504 BA	08.324.4N	12
PED 502 M+PEDS EB	01.157.4N	20	PEDS EM	01.143.4N	15	PED 504 SA	08.325.4N	12
	01.081.2	20	PEDS ES	01.145.4N	15	PED 504 BSA	08.326.4N	12
	01.080.2	20		01.081.2	20	PEDS 504 MA	08.327.4N	13
PED 304 M	08.184.4	21		01.080.2	20	PEDS 504 BA	08.328.4N	13
	01.158.4	21		01.158.4	21	PEDS 504 SA	08.329.4N	13
	01.159.4	21		01.159.4	21	PEDS 504 BSA	08.330.4N	13

ordinato per pagina ordered by page

ordinato per sigla ordered by part number

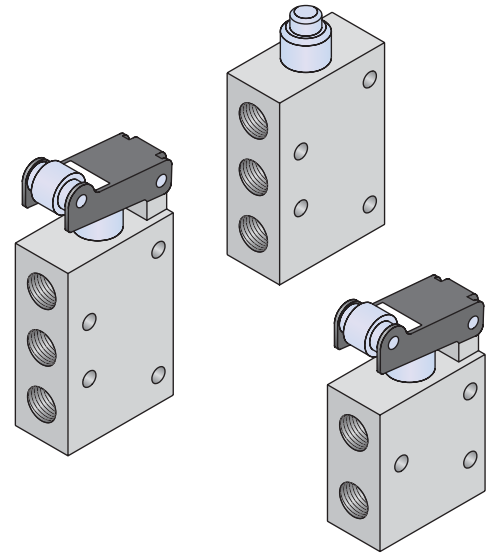
ordinato per codice ordered by code

# valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



- Valvole a spola 3/2-5/2 con attacchi filettati G1/8"  
*3/2-5/2 spool valves with G1/8" threaded ports*
- Installazione in qualsiasi posizione  
*Installation in any position*
- Azionamento diretto monostabile  
*Mono-stable direct actuation*



## 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>	4 mm
Portata nominale a 6 bar, $\Delta p$ 1 bar <i>Nominal flow rate at 6 bar, <math>\Delta p</math> 1 bar</i>	350 NI/min
Temperatura di esercizio <i>Temperature range</i>	max +60°C
Forza di azionamento <i>Actuating force</i>	Vedi pagine seguenti <i>See following pages</i>
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>

# valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



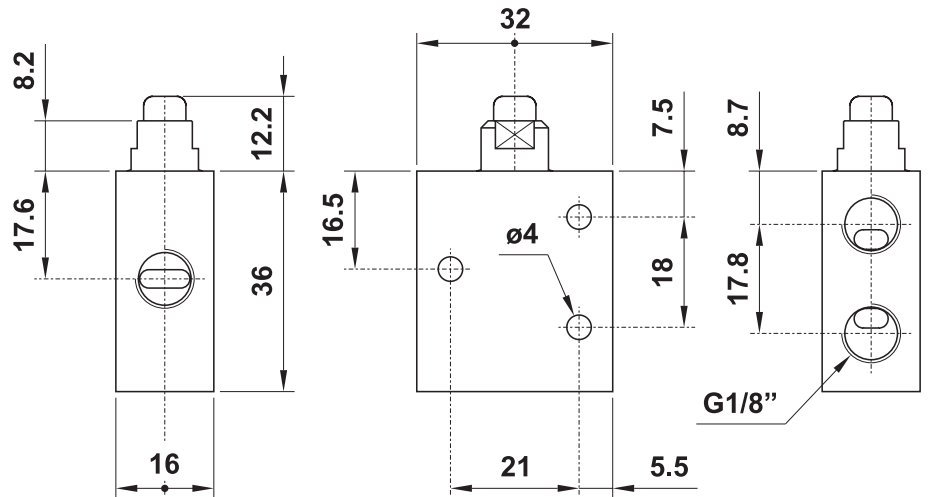
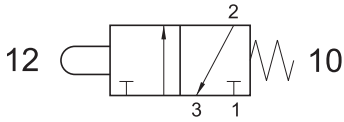
## 431 MP

3/2 1/8" puntale - ritorno a molla

3/2 1/8" tappet - spring return

Forza di azionamento: 19.61 N

Actuating force: 19.61 N



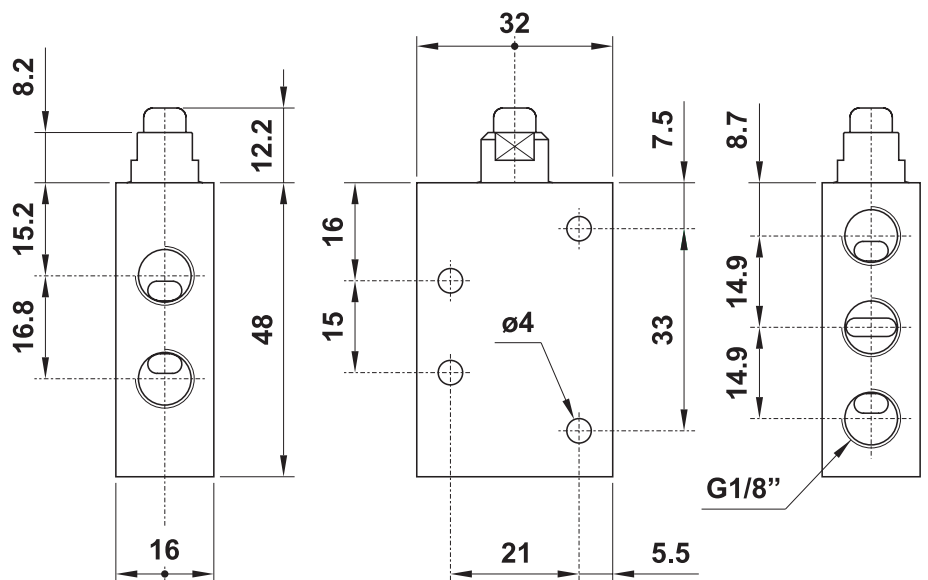
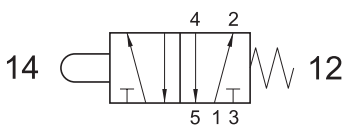
## 451 MP

5/2 1/8" puntale - ritorno a molla

5/2 1/8" tappet - spring return

Forza di azionamento: 39.22 N

Actuating force: 39.22 N



# valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



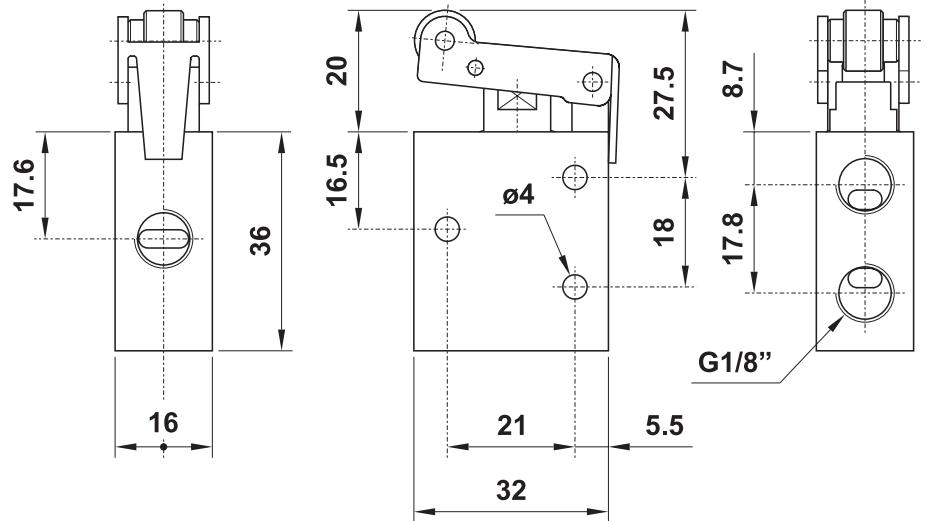
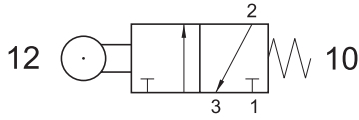
## 431 MR

3/2 1/8" leva rullo corta - ritorno a molla

3/2 1/8" short roller lever - spring return

Forza di azionamento: 9.81 N

Actuating force: 9.81 N



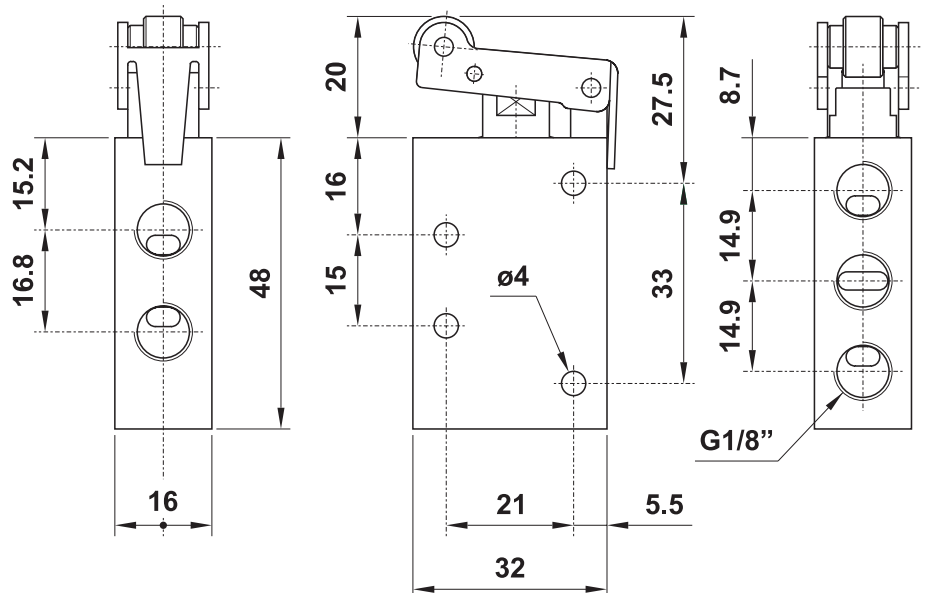
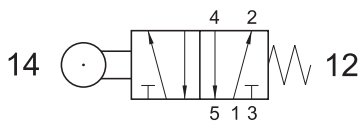
## 451 MR

5/2 1/8" leva rullo corta - ritorno a molla

5/2 1/8" short roller lever - spring return

Forza di azionamento: 21.57 N

Actuating force: 21.57 N



# valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



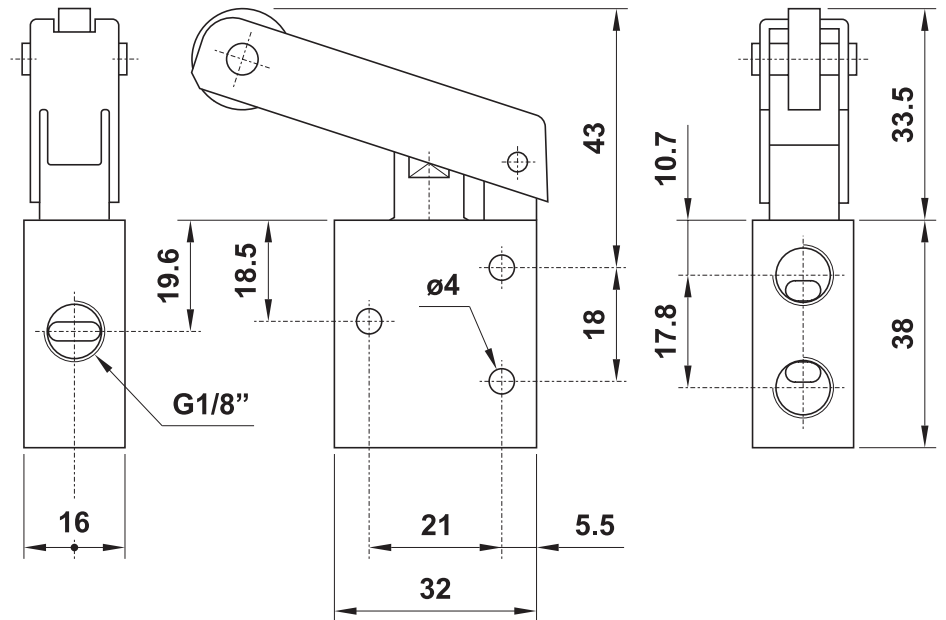
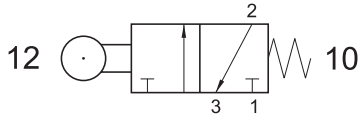
## 431 MRL

3/2 1/8" leva rullo lunga - ritorno a molla

3/2 1/8" long roller lever - spring return

Forza di azionamento: 8.33 N

Actuating force: 8.33 N



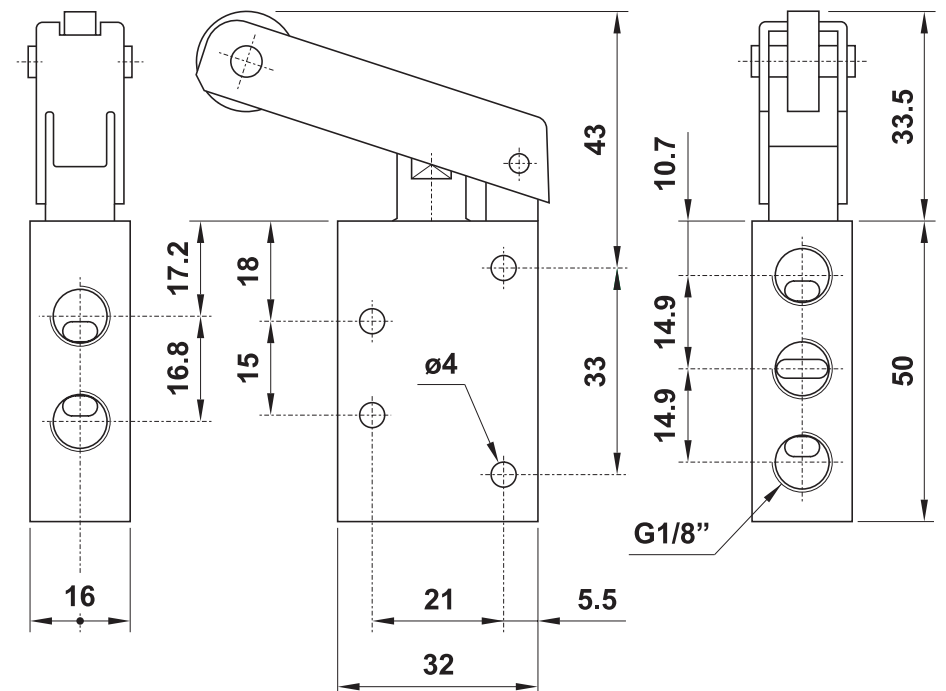
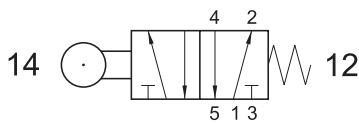
## 451 MRL

5/2 1/8" leva rullo lunga - ritorno a molla

5/2 1/8" long roller lever - spring return

Forza di azionamento: 14.21 N

Actuating force: 14.21 N



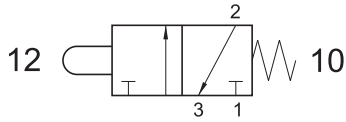
# valvole 16 mm ad azion. meccanico e manuale

mechanically and manually actuated valves - 16 mm



## 431 MGx

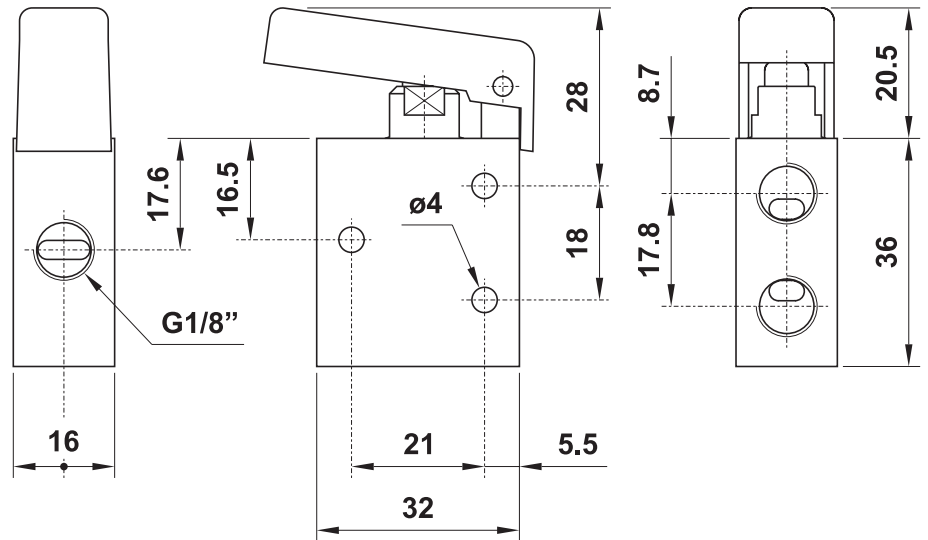
3/2 1/8" tasto (4 colori: vedi schema) - ritorno a molla  
3/2 1/8" push button (4 colours: see explanation) - spring return



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.  
In the part number replace the letter "x" with the colour reference of the push button.

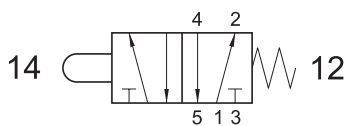
ROSSO - red	<b>R</b>
GIALLO - yellow	<b>G</b>
VERDE - green	<b>V</b>
NERO - black	<b>N</b>

Forza di azionamento: 7.84 N  
Actuating force: 7.84 N



## 451 MGx

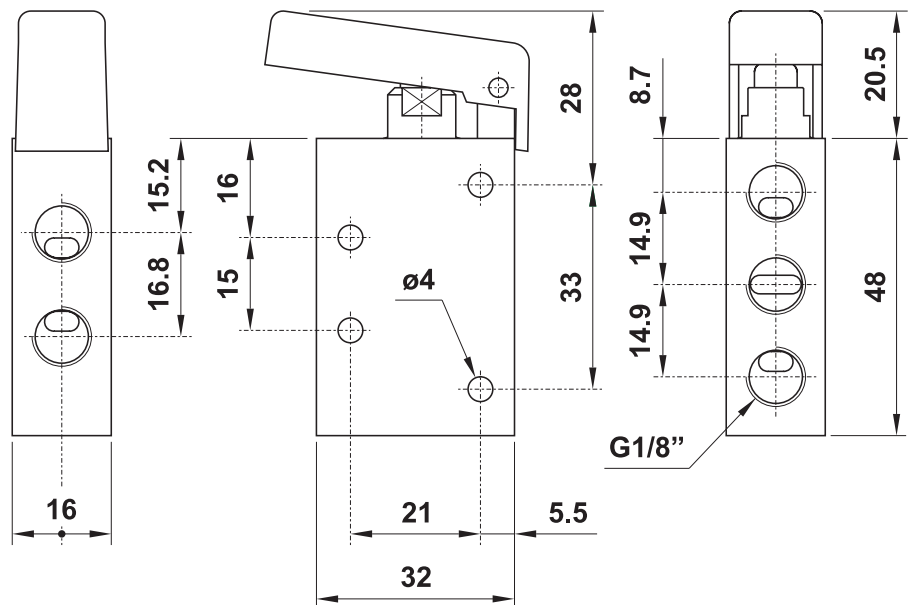
5/2 1/8" tasto (4 colori: vedi schema) - ritorno a molla  
5/2 1/8" push button (4 colours: see explanation) - spring return



Nella sigla del prodotto sostituire la lettera "x" con l'indicazione del colore del tasto.  
In the part number replace the letter "x" with the colour reference of the push button.

ROSSO - red	<b>R</b>
GIALLO - yellow	<b>G</b>
VERDE - green	<b>V</b>
NERO - black	<b>N</b>

Forza di azionamento: 13.73 N  
Actuating force: 13.73 N

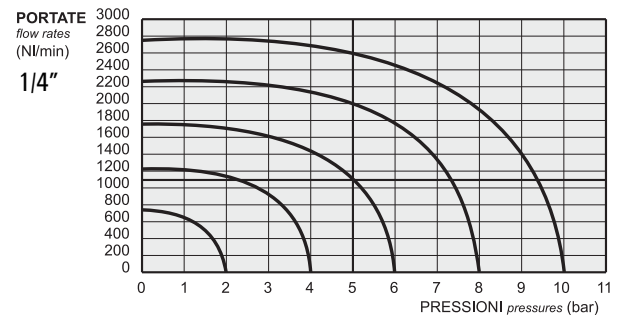
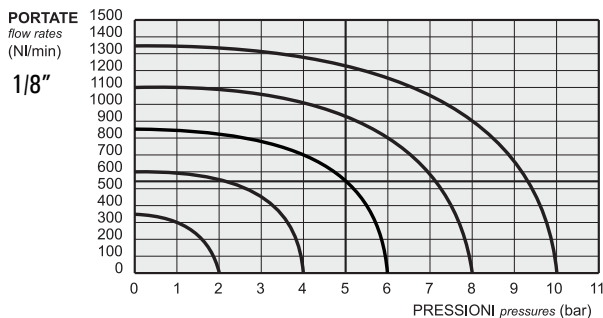


# valvole ad azionamento pneumatico

*pneumatically piloted 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, gang or manifold mounted*
- Ampia gamma di azionamenti  
*Comprehensive range of actuations*
- Versioni con elemento logico integrato  
*Versions with integrated logic element*
- Esecuzioni speciali a richiesta  
*Special versions on request*



## Tempi di risposta - response times

	1/8"	1/4"
monostabile <i>mono-stable</i>	TRA (14): 6 ms TRR (12): 15 ms	TRA (14): 7 ms TRR (12): 15 ms
bistabile <i>bi-stable</i>	TRA (14): 7 ms TRR (12): 7 ms	TRA (14): 7 ms TRR (12): 7 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>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</i>	monostabile [mono-stable]	bistabile [bi-stable]
	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 50µ filtered, lubricated or non lubricated air	

# valvole ad azionamento pneumatico

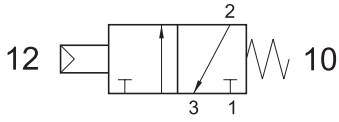
*pneumatically piloted valves*



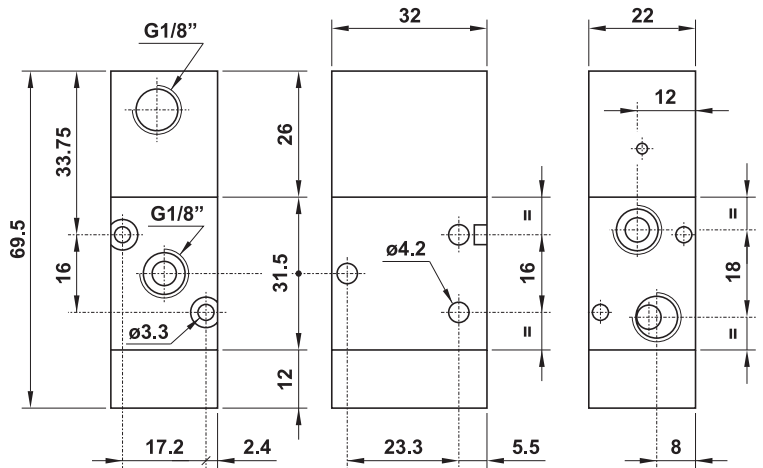
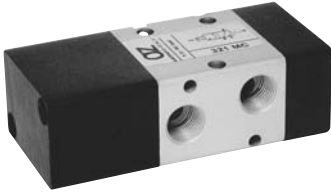
## 321 MC

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

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



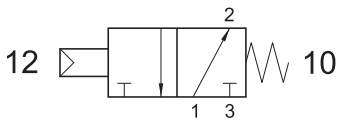
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



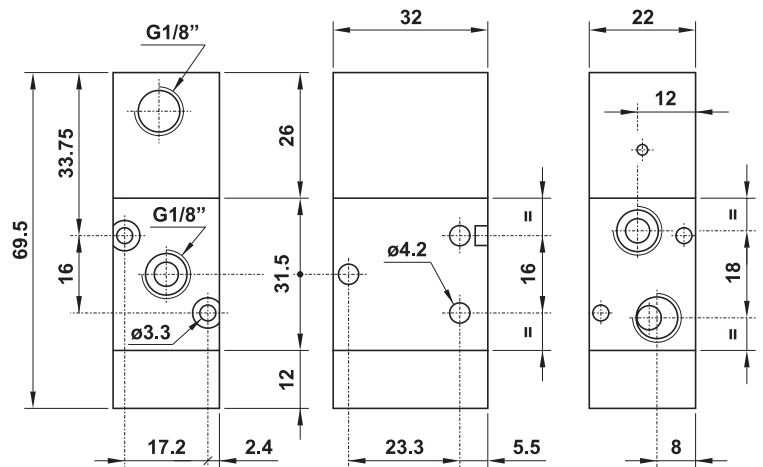
## 321 MCA

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

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



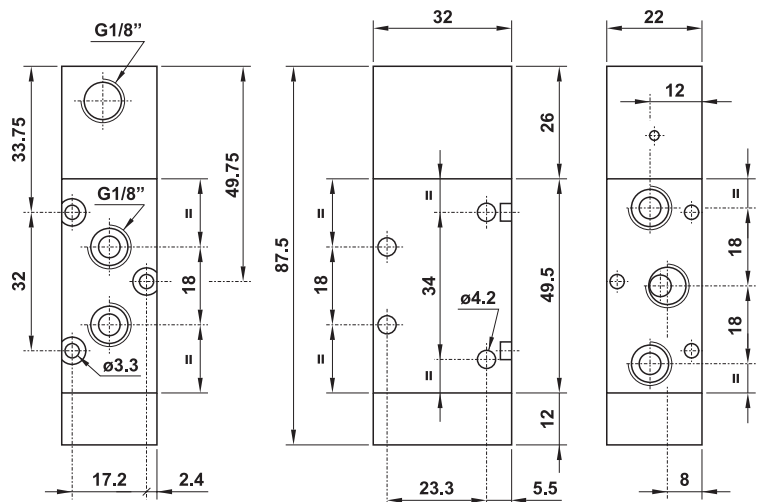
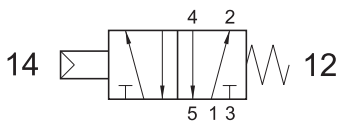
Non può essere utilizzata come valvola normalmente chiusa.  
It cannot be used as normally closed valve.



## 521 MC

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

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



# valvole ad azionamento pneumatico

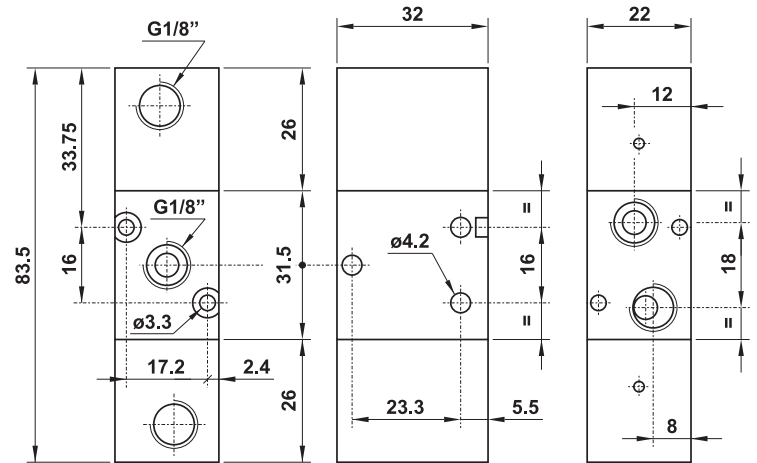
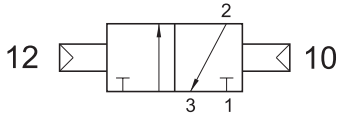
*pneumatically piloted valves*



## 321 CC

3/2 1/8" doppio comando pneumatico

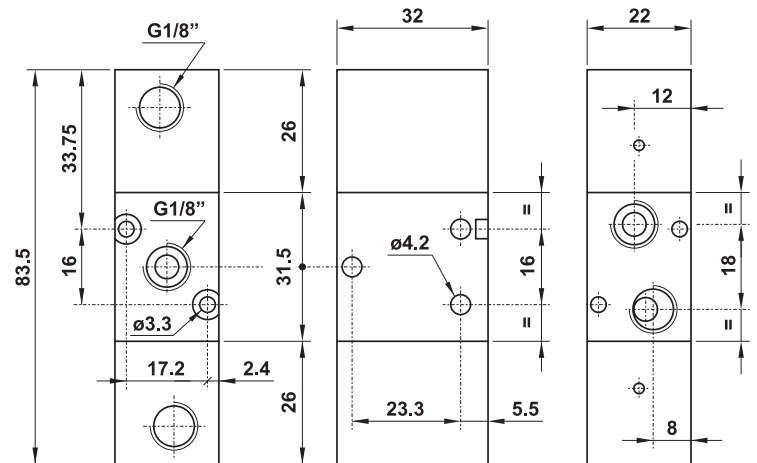
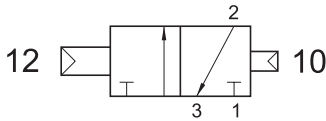
3/2 1/8" double pneumatic pilot



## 321 CCD

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

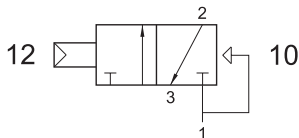
3/2 1/8" double pneumatic pilot - with differential



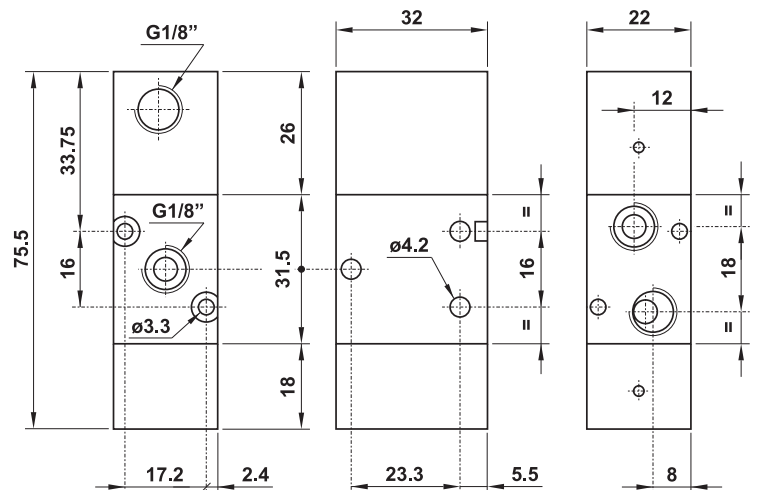
## 321 CFP

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

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



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



# valvole ad azionamento pneumatico

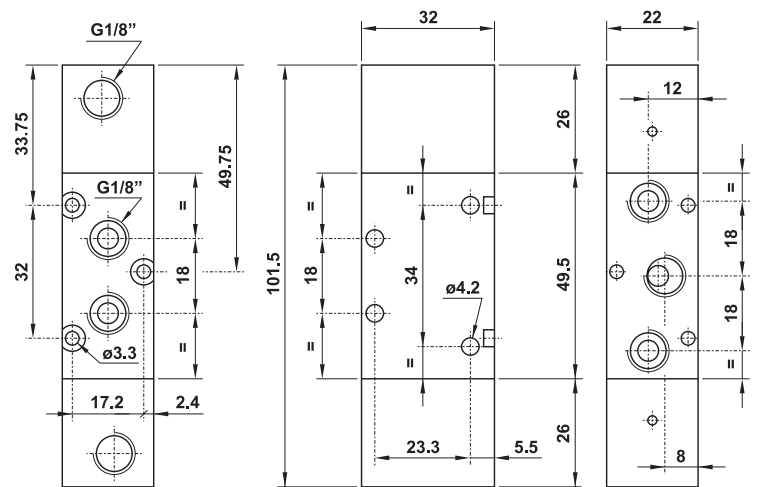
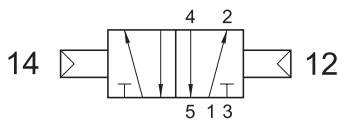
*pneumatically piloted valves*



## 521 CC

5/2 1/8" doppio comando pneumatico

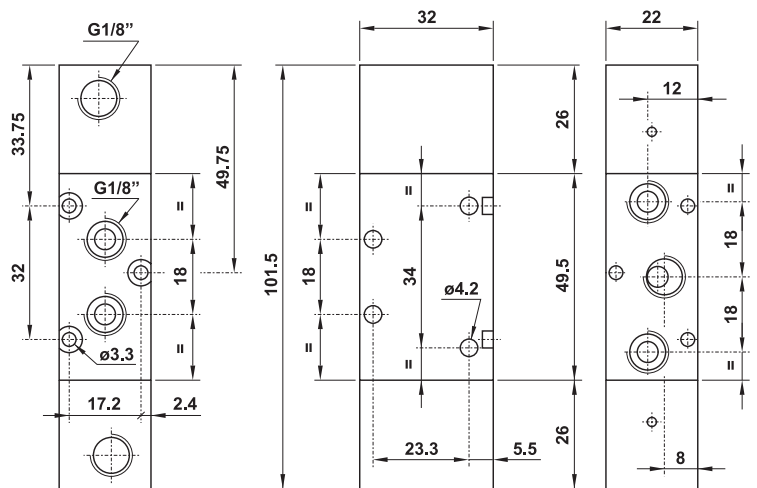
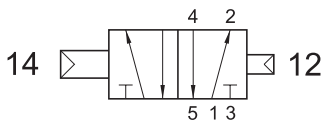
*5/2 1/8" double pneumatic pilot*



## 521 CCD

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

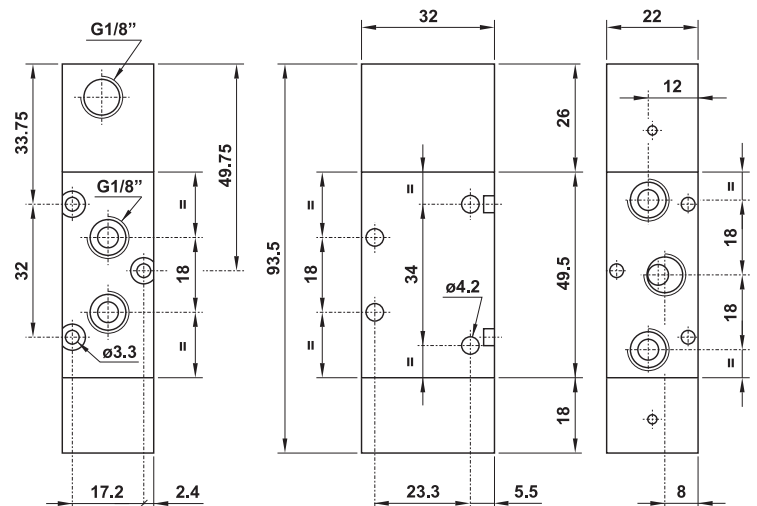
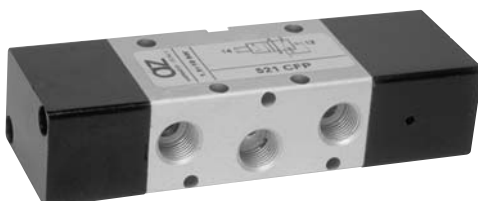
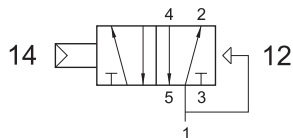
*5/2 1/8" double pneumatic pilot - with differential*



## 521 CFP

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

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



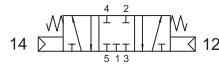
# valvole ad azionamento pneumatico

*pneumatically piloted valves*



**5213C CC**

centri chiusi  
*closed centres*



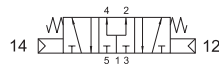
**5213A CC**

centri aperti  
*open centres*



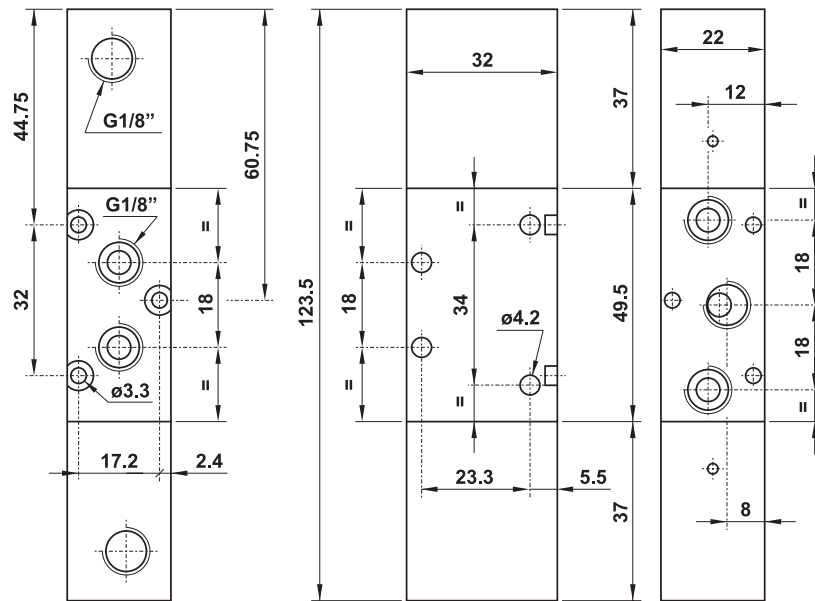
**5213P CC**

centri in pressione  
*pressurized centres*



5/3 1/8" doppio comando pneumatico

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



**5223C CC**

centri chiusi  
*closed centres*



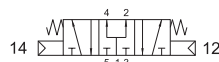
**5223A CC**

centri aperti  
*open centres*



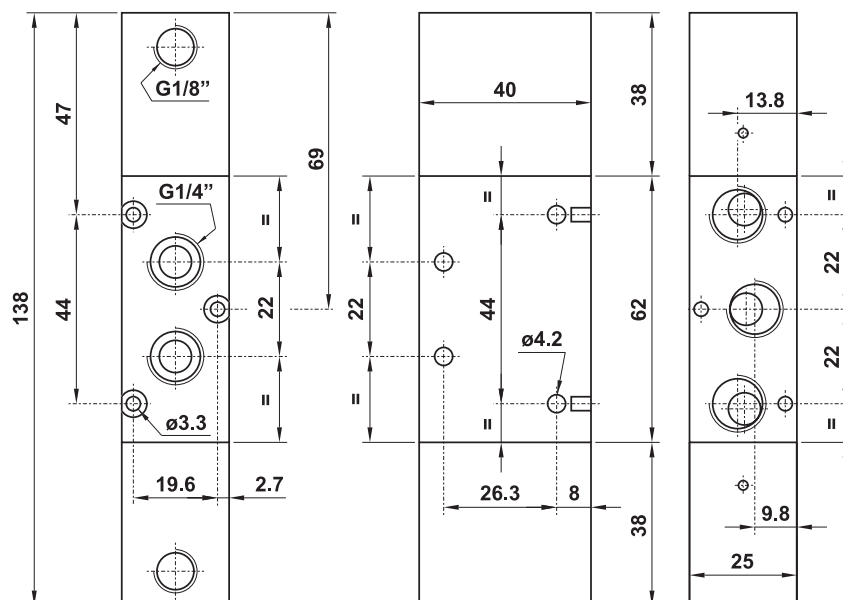
**5223P CC**

centri in pressione  
*pressurized centres*



5/3 1/4" doppio comando pneumatico

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



# valvole ad azionamento pneumatico

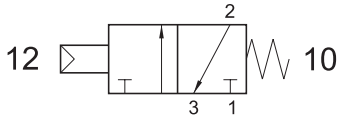
*pneumatically piloted valves*



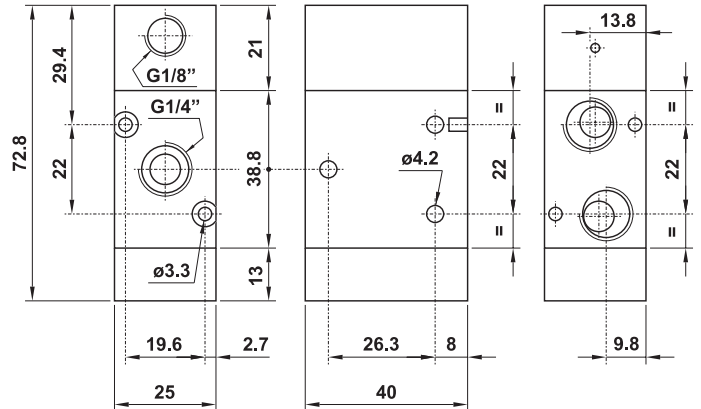
## 322 MC

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

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



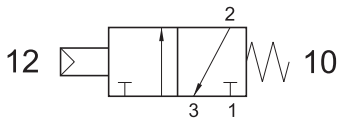
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



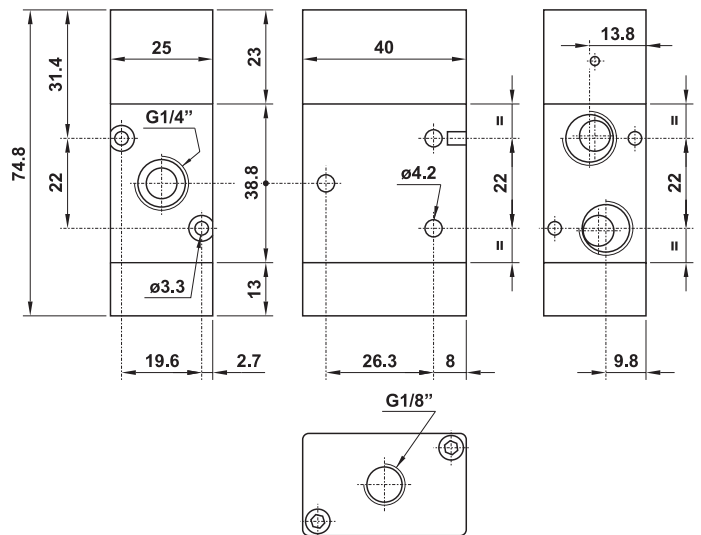
## 322 MC SUP

3/2 1/4" NC comando pneumatico attacco superiore - ritorno a molla

3/2 1/4" NC pneumatic pilot on the top - spring return



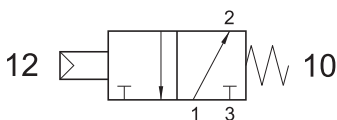
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



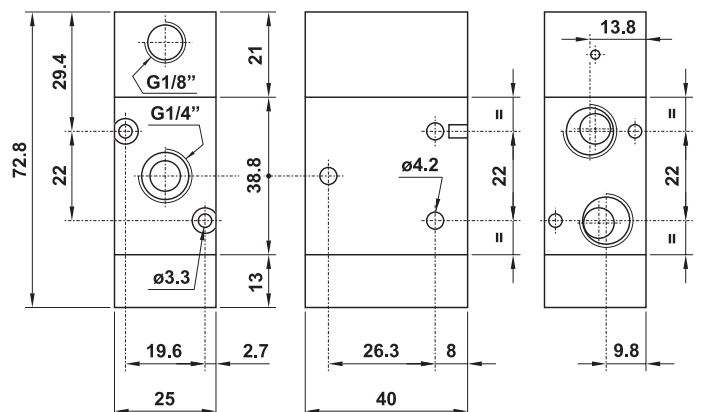
## 322 MCA

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

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



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



# valvole ad azionamento pneumatico

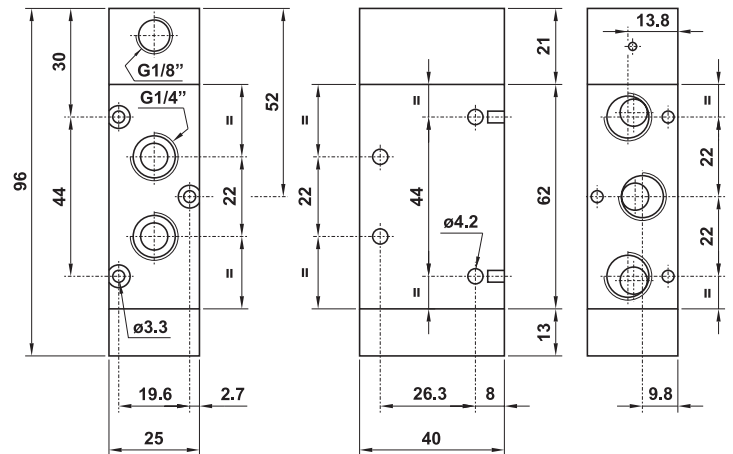
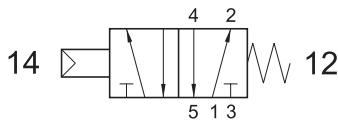
*pneumatically piloted valves*



## 522 MC

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

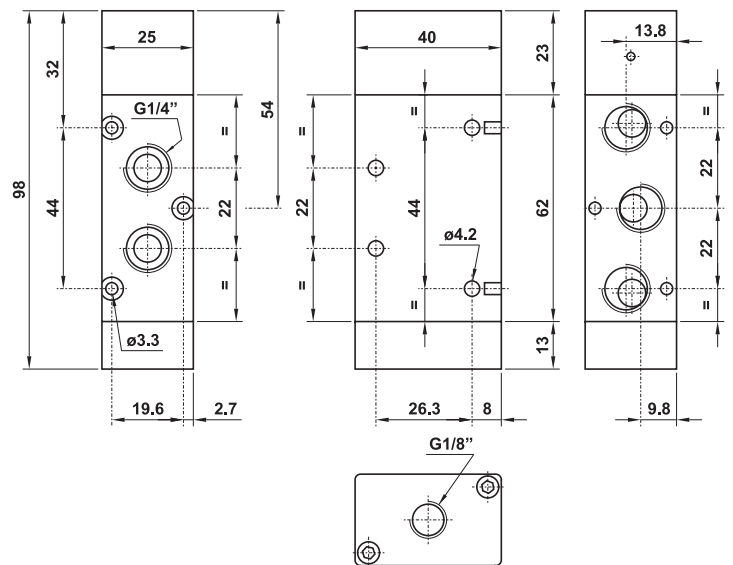
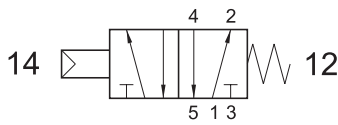
5/2 1/4" pneumatic pilot - spring return



## 522 MC SUP

5/2 1/4" comando pneumatico attacco superiore - ritorno a molla

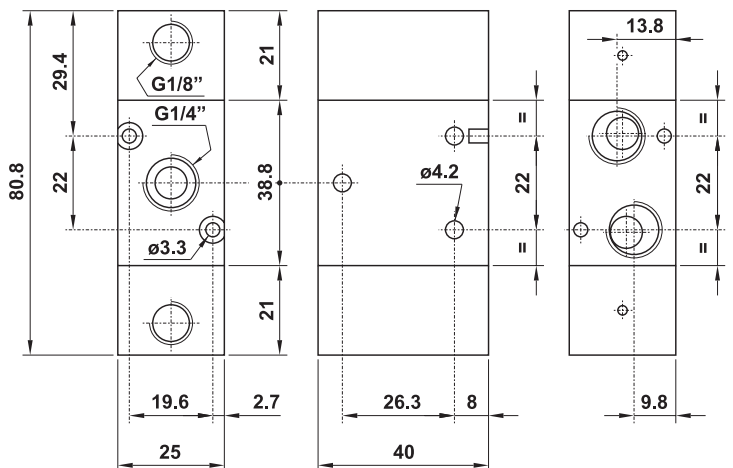
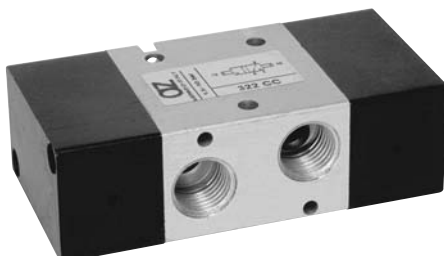
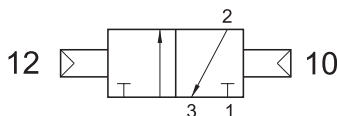
5/2 1/4" pneumatic pilot on the top - spring return



## 322 CC

3/2 1/4" doppio comando pneumatico

3/2 1/4" double pneumatic pilot



# valvole ad azionamento pneumatico

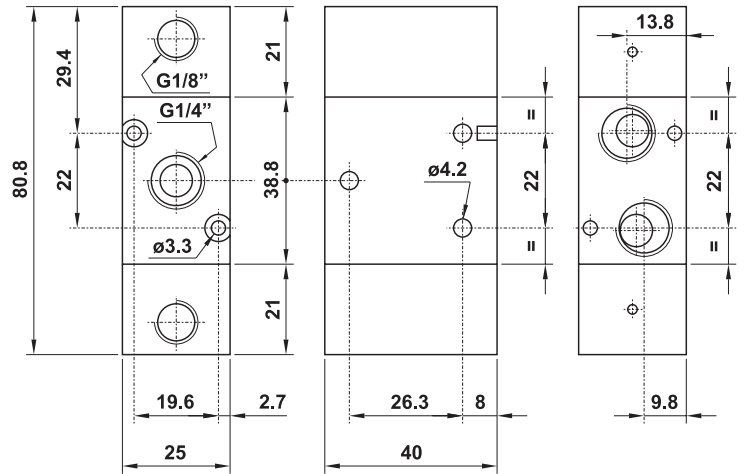
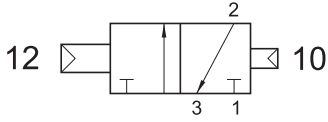
*pneumatically piloted valves*



## 322 CCD

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

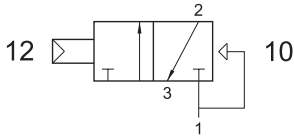
3/2 1/4" double pneumatic pilot - with differential



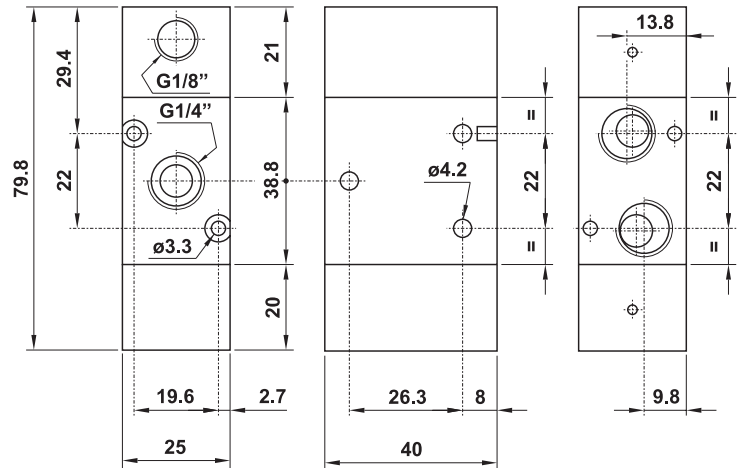
## 322 CFP

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

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



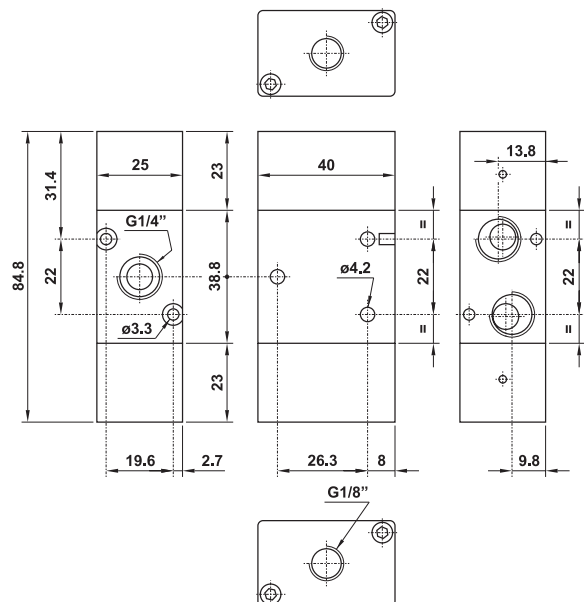
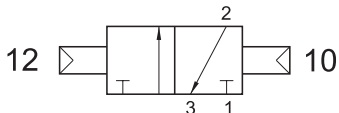
Non può essere utilizzata come valvola normalmente aperta.  
*It cannot be used as normally open valve.*



## 322 CC SUP

3/2 1/4" doppio comando pneumatico attacco superiore

3/2 1/4" double pneumatic pilot on the top



# valvole ad azionamento pneumatico

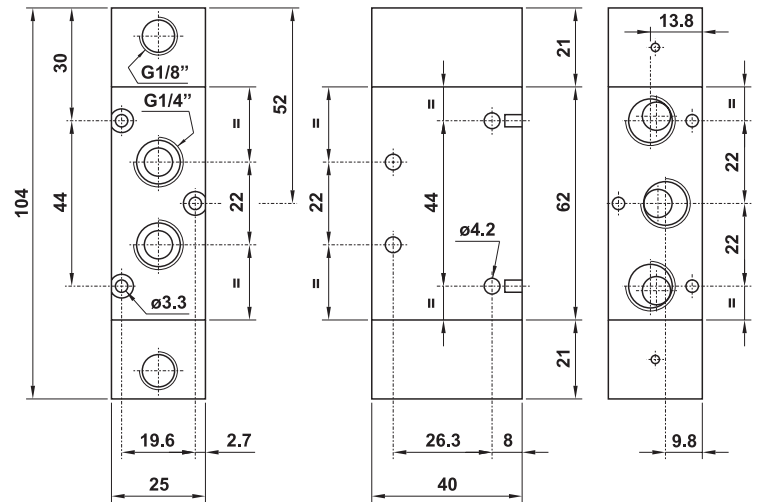
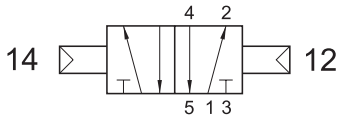
*pneumatically piloted valves*



## 522 CC

5/2 1/4" doppio comando pneumatico

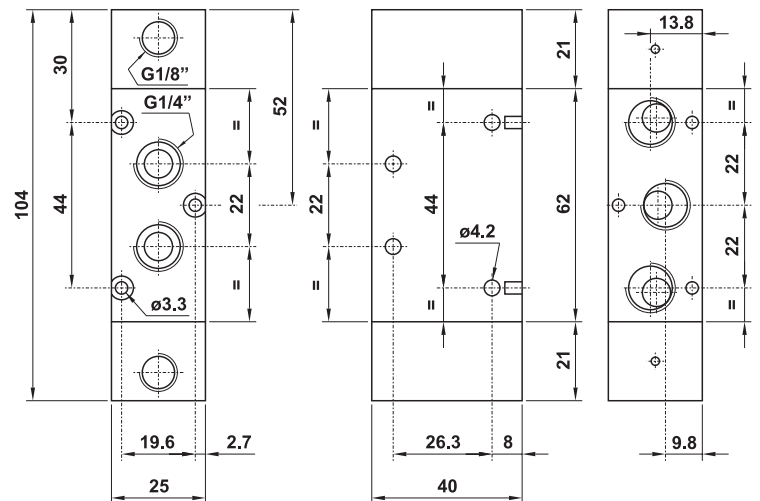
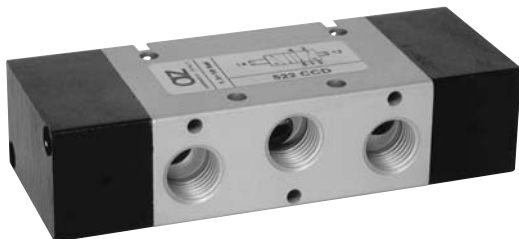
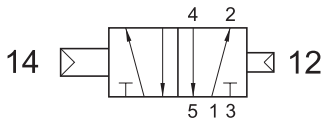
5/2 1/4" double pneumatic pilot



## 522 CCD

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

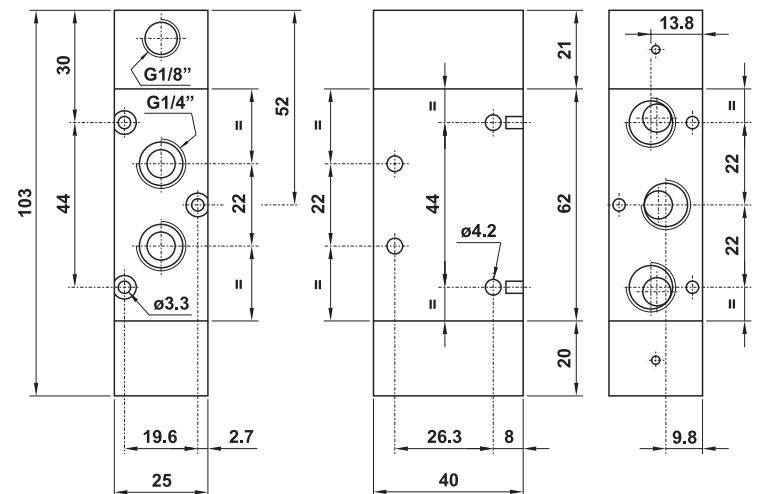
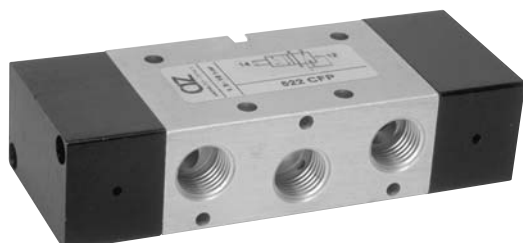
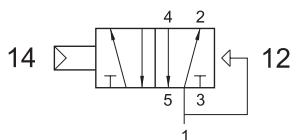
5/2 1/4" double pneumatic pilot - with differential



## 522 CFP

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

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



# valvole ad azionamento pneumatico

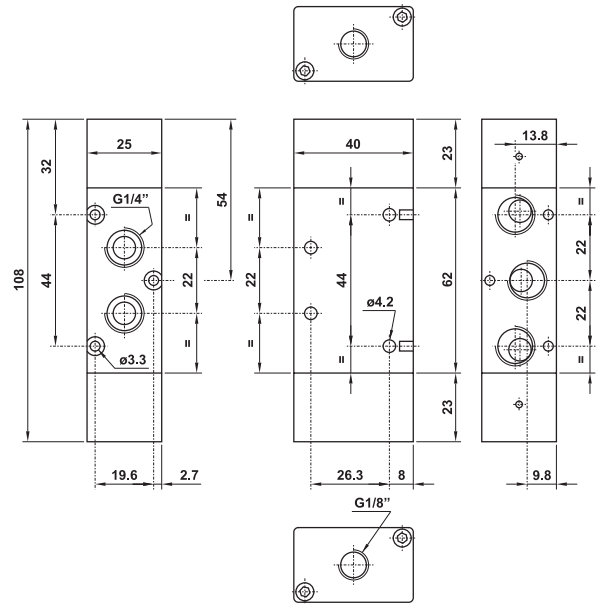
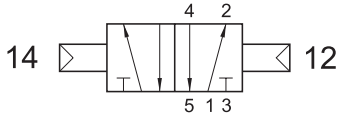
*pneumatically piloted valves*



## 522 CC SUP

5/2 1/4" doppio comando pneumatico attacco superiore

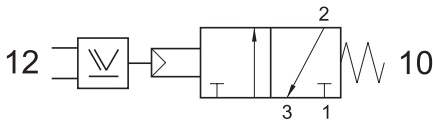
5/2 1/4" double pneumatic pilot on the top



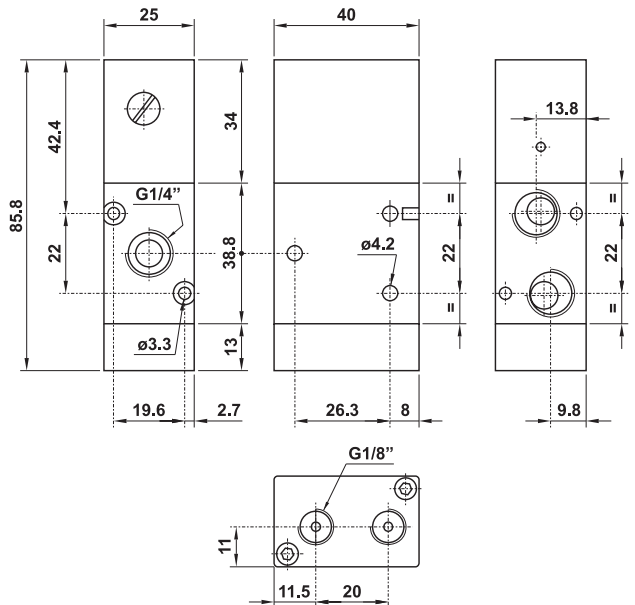
## 322 ORM

3/2 1/4" NC comando pneum. con elem. OR integrato - ritorno a molla

3/2 1/4" NC pneumatic pilot with integrated OR element - spring return



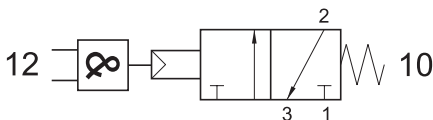
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



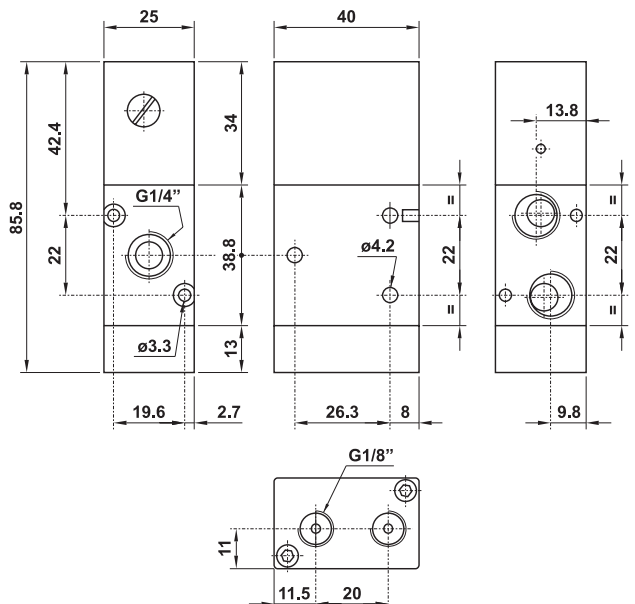
## 322 ANDM

3/2 1/4" NC comando pneum. con elem. AND integrato - ritorno a molla

3/2 1/4" NC pneumatic pilot with integrated AND element - spring return



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



# valvole ad azionamento pneumatico

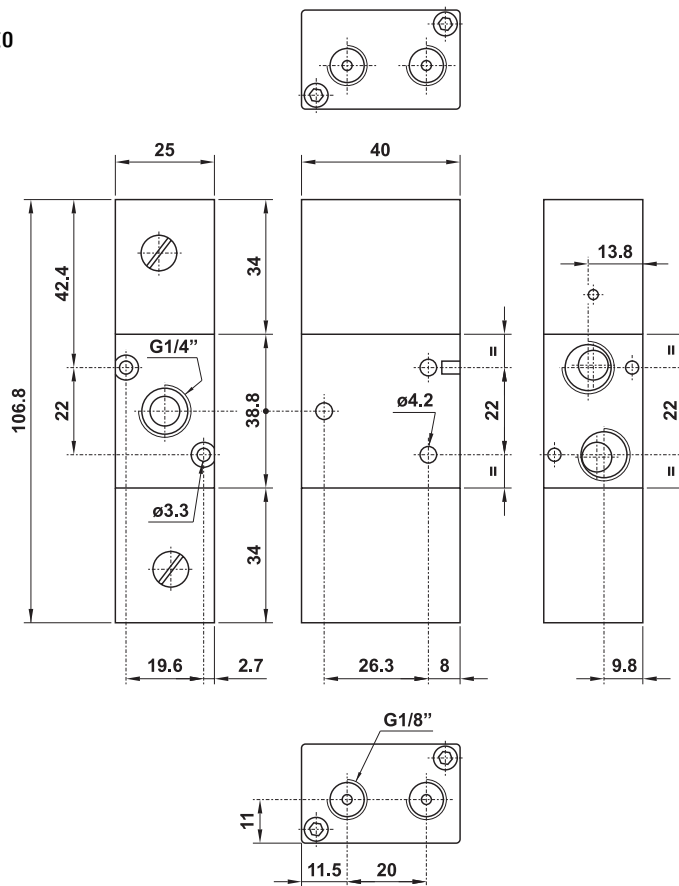
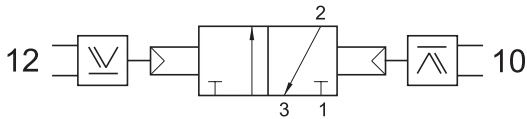
*pneumatically piloted valves*



## 322 2OR

3/2 1/4" doppio comando pneumatico con elemento OR integrato

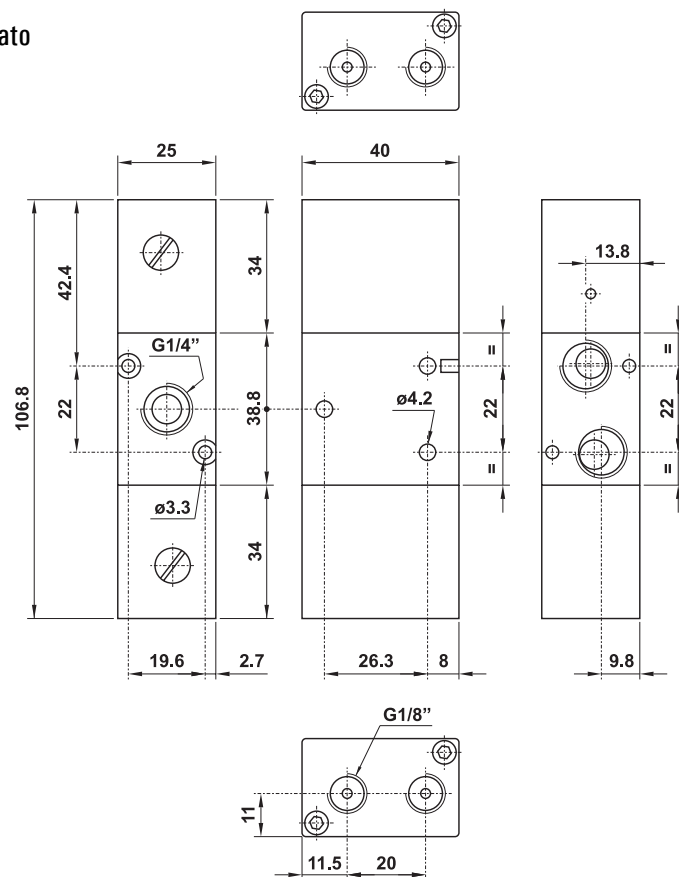
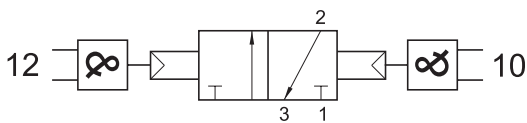
3/2 1/4" double pneumatic pilot with integrated OR element



## 322 2AND

3/2 1/4" doppio comando pneumatico con elemento AND integrato

3/2 1/4" double pneumatic pilot with integrated AND element



# valvole ad azionamento pneumatico

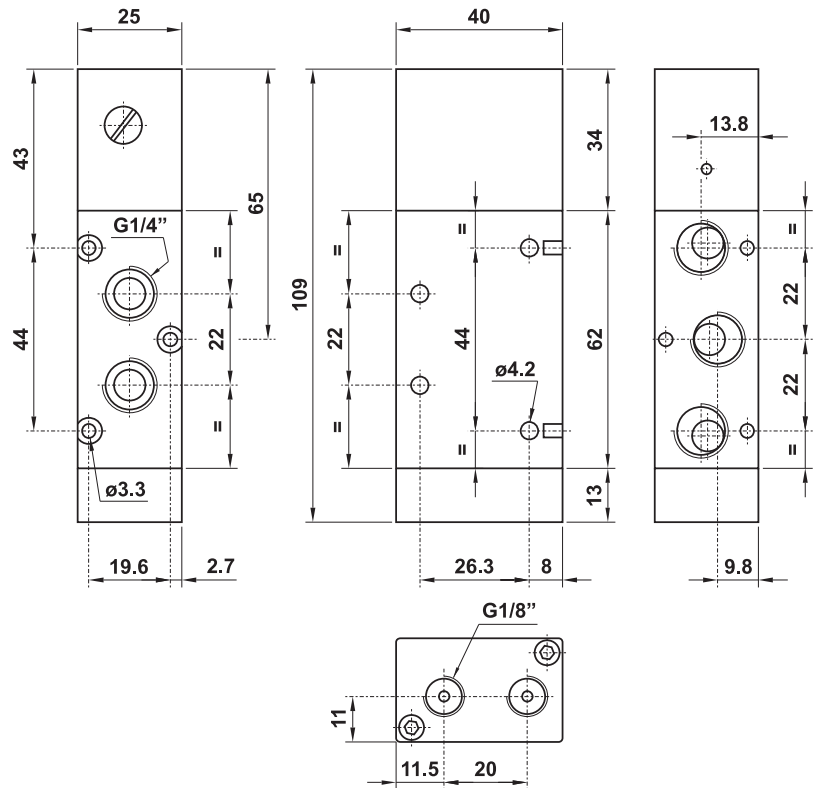
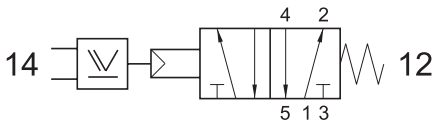
*pneumatically piloted valves*



## 522 ORM

5/2 1/4" comando pneum. con elemento OR integrato - ritorno a molla

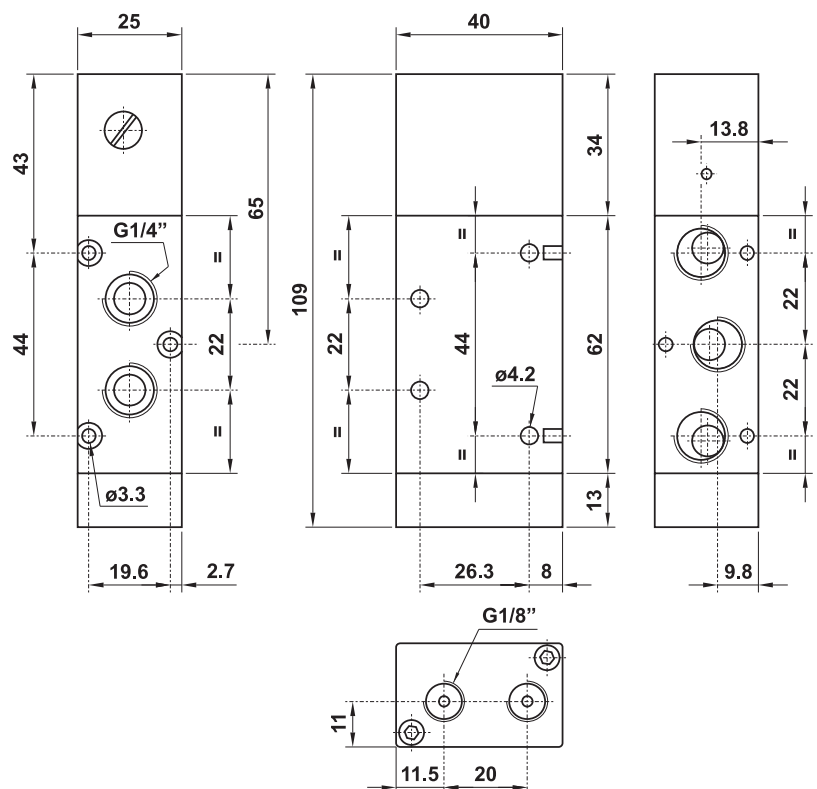
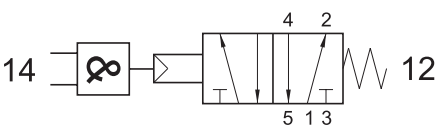
5/2 1/4" pneumatic pilot with integrated OR element - spring return



## 522 ANDM

5/2 1/4" comando pneum. con elem. AND integrato - ritorno a molla

5/2 1/4" pneumatic pilot with integrated AND element - spring return



# valvole ad azionamento pneumatico

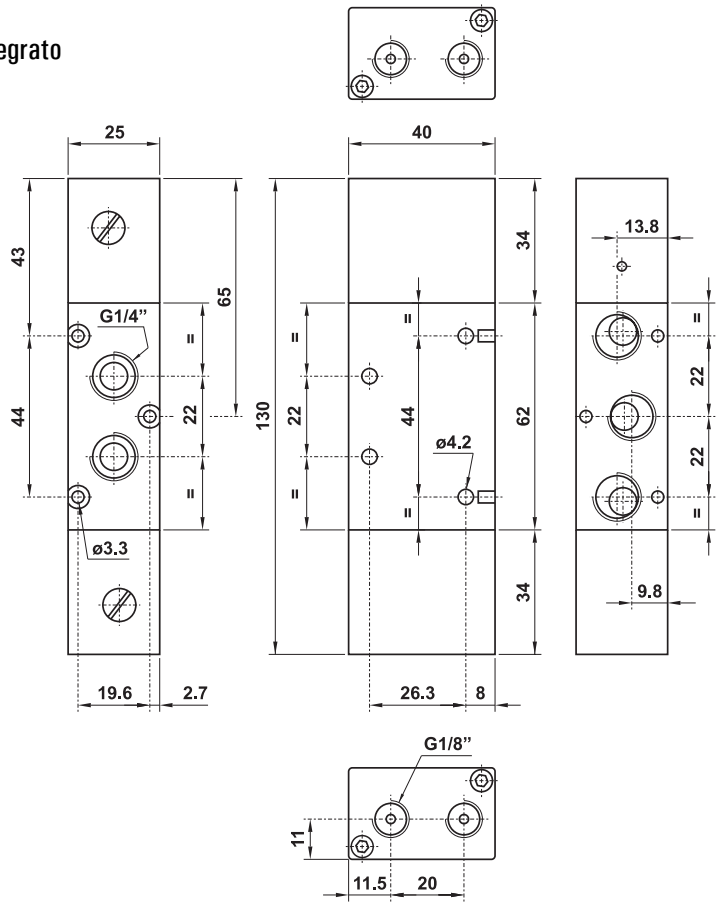
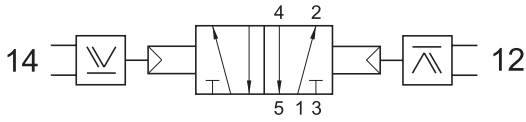
*pneumatically piloted valves*



## 522 2OR

5/2 1/4" doppio comando pneumatico con elemento OR integrato

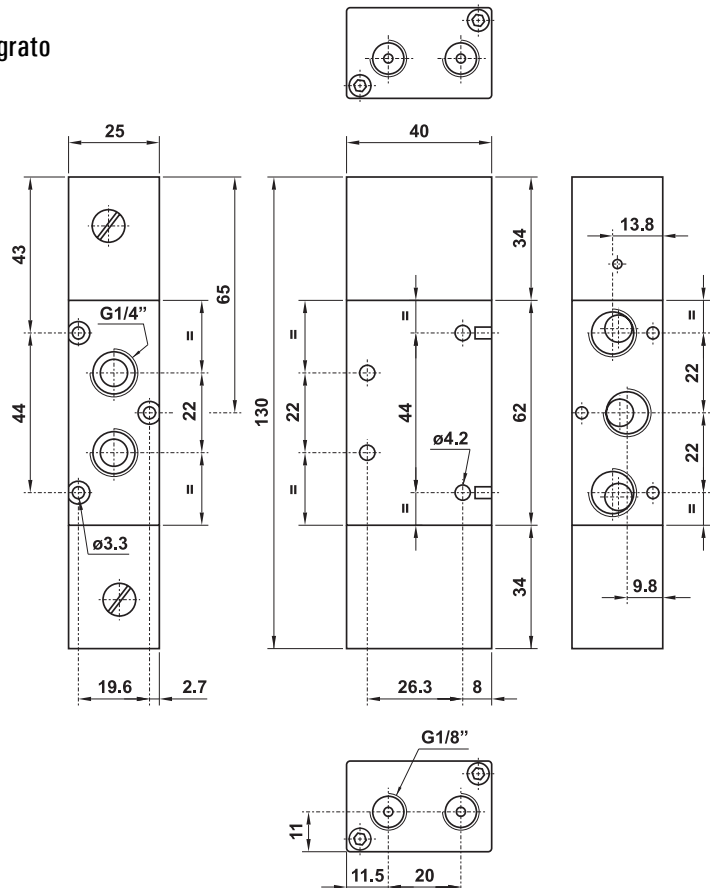
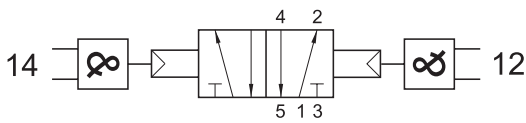
5/2 1/4" double pneumatic pilot with integrated OR element



## 522 2AND

5/2 1/4" doppio comando pneumatico con elemento AND integrato

5/2 1/4" double pneumatic pilot with integrated AND element



# valvole ad azionamento pneumatico

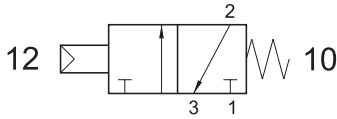
*pneumatically piloted valves*



## 321 MCQ

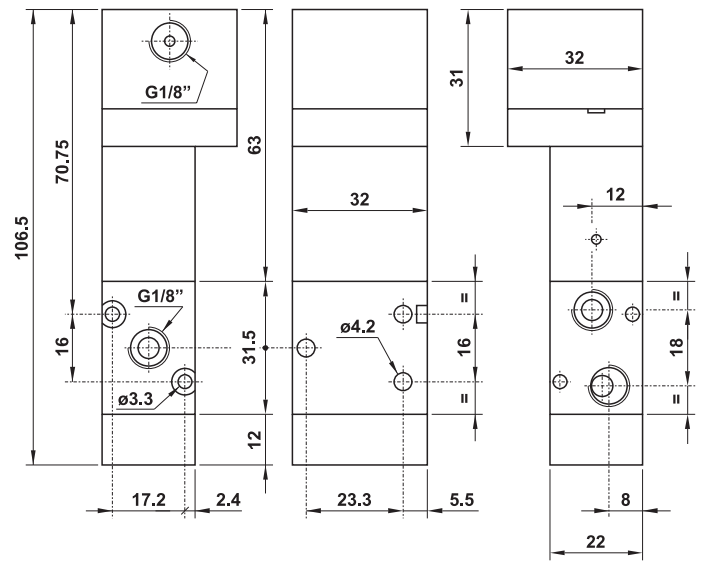
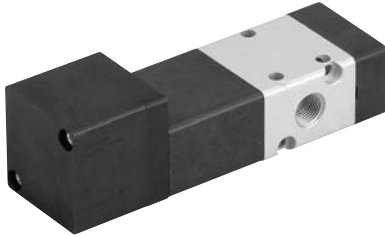
3/2 1/8" NC comando pneumatico 0.3 bar - ritorno a molla

3/2 1/8" NC pneumatic pilot 0.3 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)  
Pressione di comando: min. 0.3 bar (0.03 MPa)

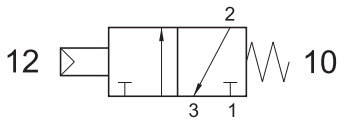
Work pressure: min. 2.5 bar (0.25 MPa)  
Pilot pressure: min. 0.3 bar (0.03 MPa)



## 321 MCS

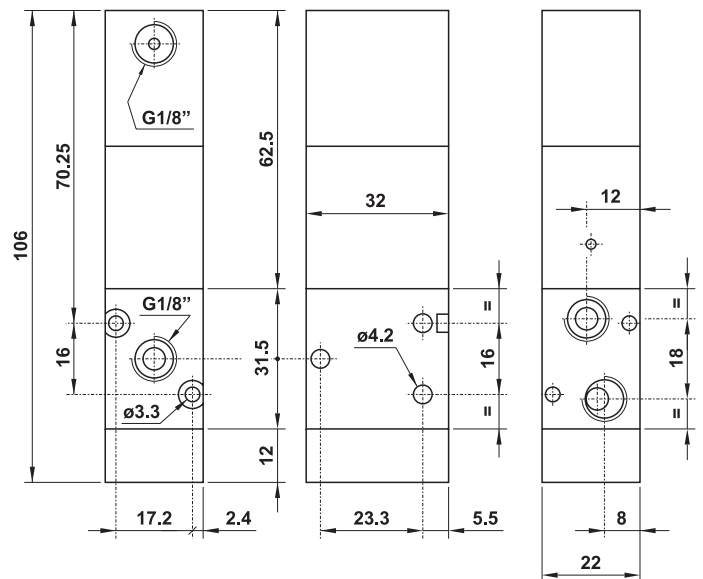
3/2 1/8" NC comando pneumatico 0.6 bar - ritorno a molla

3/2 1/8" NC pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)  
Pressione di comando: min. 0.6 bar (0.06 MPa)

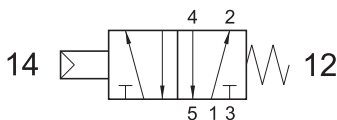
Work pressure: min. 2.5 bar (0.25 MPa)  
Pilot pressure: min. 0.6 bar (0.06 MPa)



## 521 MCQ

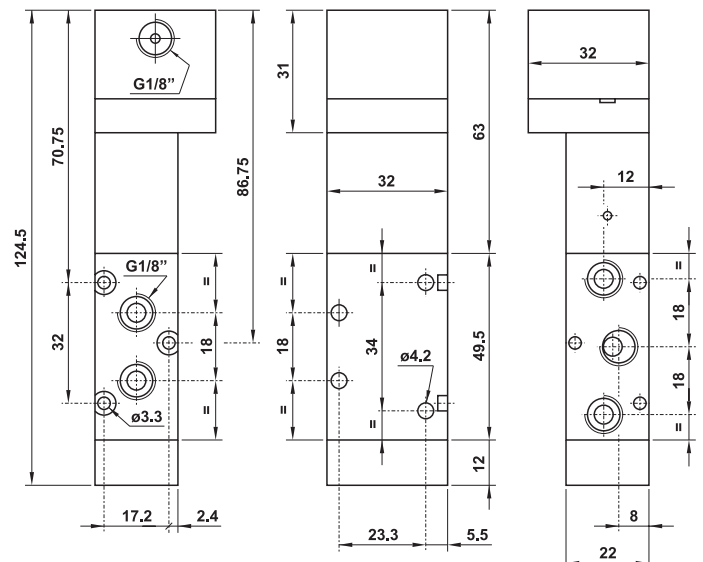
5/2 1/8" comando pneumatico 0.3 bar - ritorno a molla

5/2 1/8" pneumatic pilot 0.3 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)  
Pressione di comando: min. 0.3 bar (0.03 MPa)

Work pressure: min. 2.5 bar (0.25 MPa)  
Pilot pressure: min. 0.3 bar (0.03 MPa)



# valvole ad azionamento pneumatico

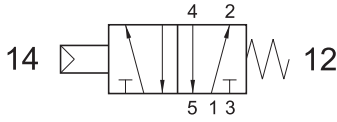
*pneumatically piloted valves*



## 521 MCS

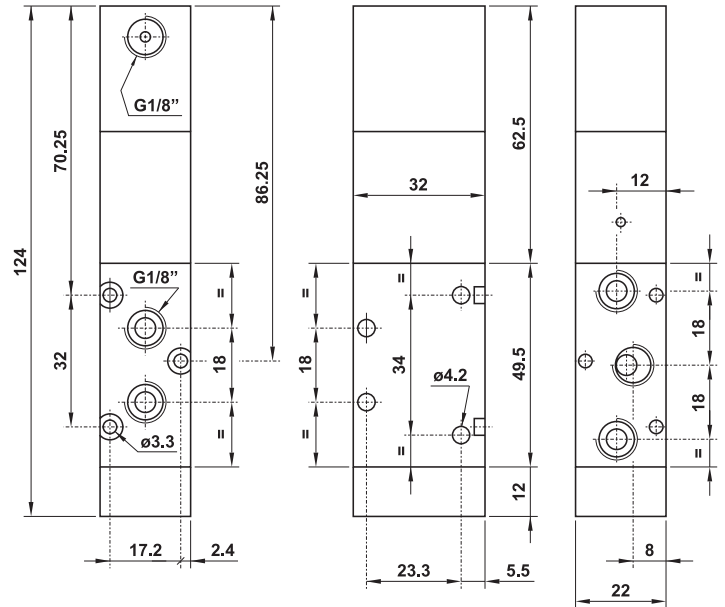
5/2 1/8" comando pneumatico 0.6 bar - ritorno a molla

5/2 1/8" pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)  
Pressione di comando: min. 0.6 bar (0.06 MPa)

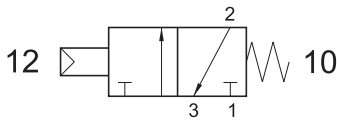
Work pressure: min. 2.5 bar (0.25 MPa)  
Pilot pressure: min. 0.6 bar (0.06 MPa)



## 322 MCS

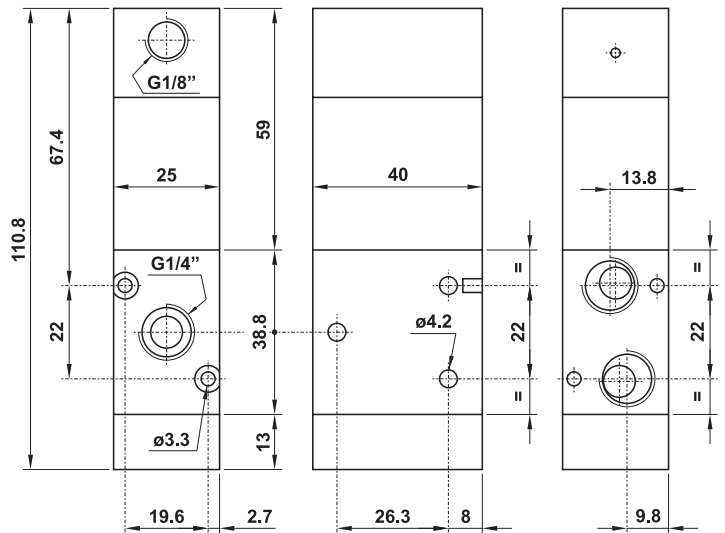
3/2 1/4" NC comando pneumatico 0.6 bar - ritorno a molla

3/2 1/4" NC pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)  
Pressione di comando: min. 0.6 bar (0.06 MPa)

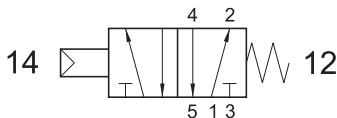
Work pressure: min. 2.5 bar (0.25 MPa)  
Pilot pressure: min. 0.6 bar (0.06 MPa)



## 522 MCS

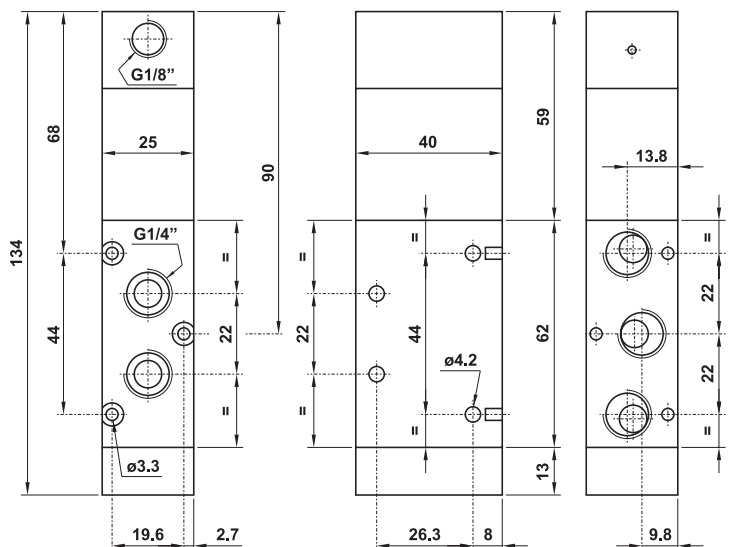
5/2 1/4" comando pneumatico 0.6 bar - ritorno a molla

5/2 1/4" pneumatic pilot 0.6 bar - spring return



Pressione di lavoro: min. 2.5 bar (0.25 MPa)  
Pressione di comando: min. 0.6 bar (0.06 MPa)

Work pressure: min. 2.5 bar (0.25 MPa)  
Pilot pressure: min. 0.6 bar (0.06 MPa)



# elettropiloti su base

solenoid valves on manifold



I prodotti qui indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98).  
All here mentioned products are sold without coils, which are bought separately (refer to page 98).

**elettropilota singolo 3/2 con o senza azion. manuale bistabile**  
*3/2 single solenoid valve with or without detented manual override*

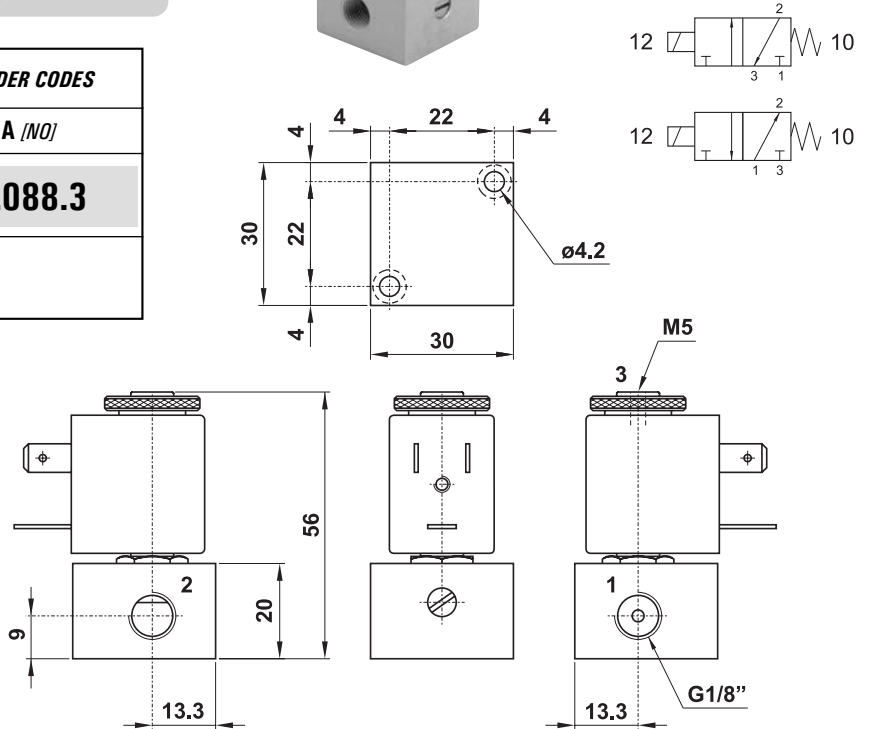
**1/8"**

bobina coil **22 mm**



	CODICI DI ORDINAZIONE - ORDER CODES	
	NC [NC]	NA [NO]
senza azion. manuale <i>without manual override</i>	<b>00.071.3</b>	<b>00.088.3</b>
con azion. manuale <i>with manual override</i>	<b>00.051.3</b>	

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Portata nominale 1-2 <i>Nominal flow rate 1-2</i>	30 NI/min
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>



**elettropilota singolo 3/2 con o senza azion. manuale bistabile**  
*3/2 single solenoid valve with or without detented manual override*

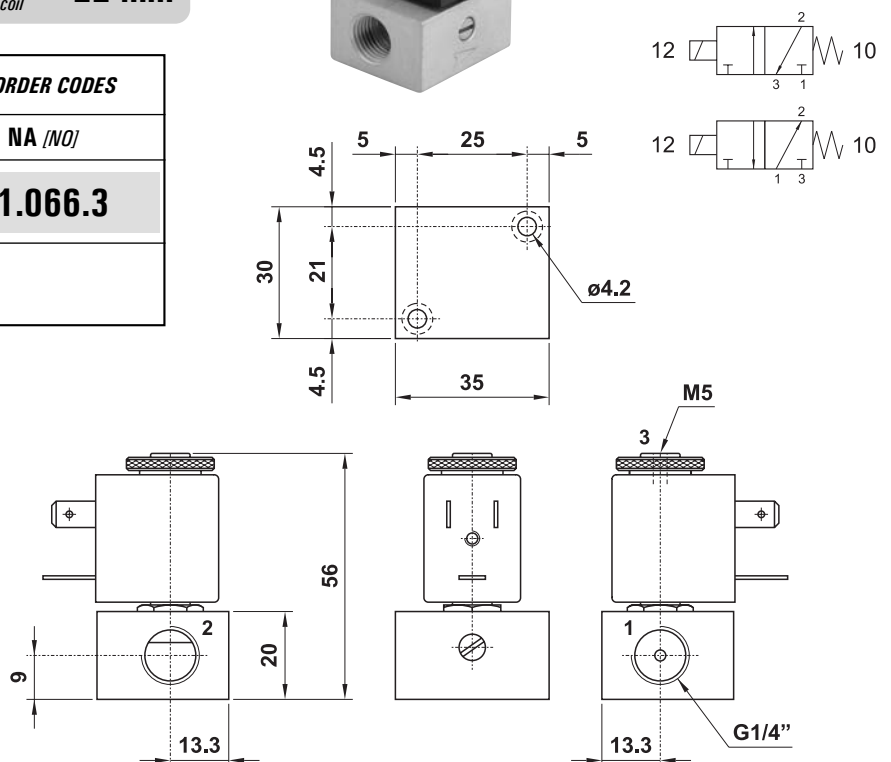
**1/4"**

bobina coil **22 mm**



	CODICI DI ORDINAZIONE - ORDER CODES	
	NC [NC]	NA [NO]
senza azion. manuale <i>without manual override</i>	<b>01.068.3</b>	<b>01.066.3</b>
con azion. manuale <i>with manual override</i>	<b>01.005.3</b>	

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Portata nominale 1-2 <i>Nominal flow rate 1-2</i>	30 NI/min
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>



# elettropiloti su base

*solenoid valves on manifold*



I prodotti qui indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98).  
All here mentioned products are sold without coils, which are bought separately (refer to page 98).

**elettropilota singolo 3/2 NC su base CNOMO con azionatore manuale**  
*3/2 NC single solenoid valve on CNOMO-base with manual override*

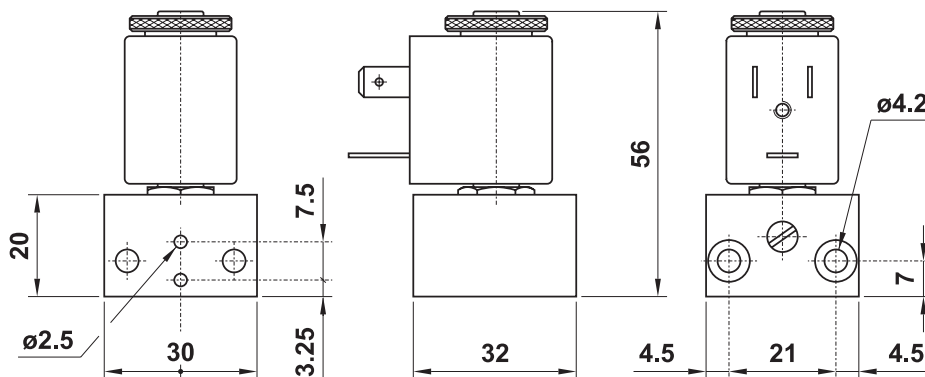
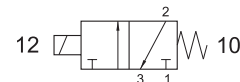
bobina  
coil **22 mm**

**00.004.3**

con azionatore manuale bistabile  
*with detented manual override*

**00.064.3**

con azionatore manuale monostabile  
*with non-detented manual override*



Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Portata nominale 1-2 <i>Nominal flow rate 1-2</i>	30 NI/min
Fluido <i>Fluid</i>	Aria filtrata 50μ con o senza lubrificazione <i>50μ filtered, lubricated or non lubricated air</i>

# elettropiloti su base

*solenoid valves on manifold*



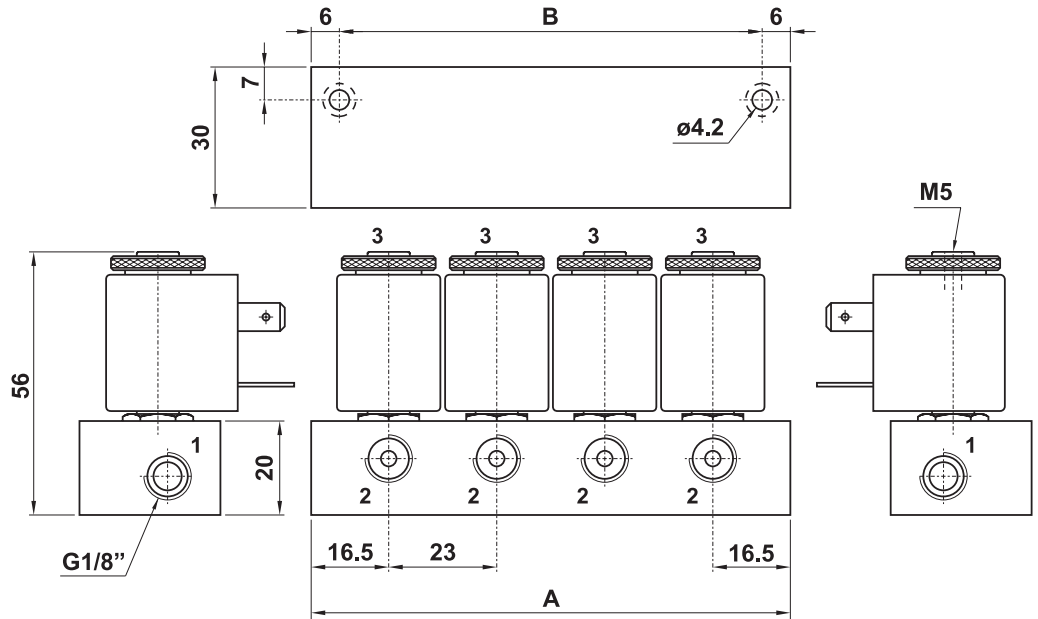
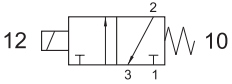
I prodotti qui indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98).  
All here mentioned products are sold without coils, which are bought separately (refer to page 98).

## elettropiloti 3/2 NC su base senza azionatore manuale 3/2 NC solenoid valves on manifold without manual override

22 mm



- diametro nominale 1.1 mm  
nominal orifice 1.1 mm



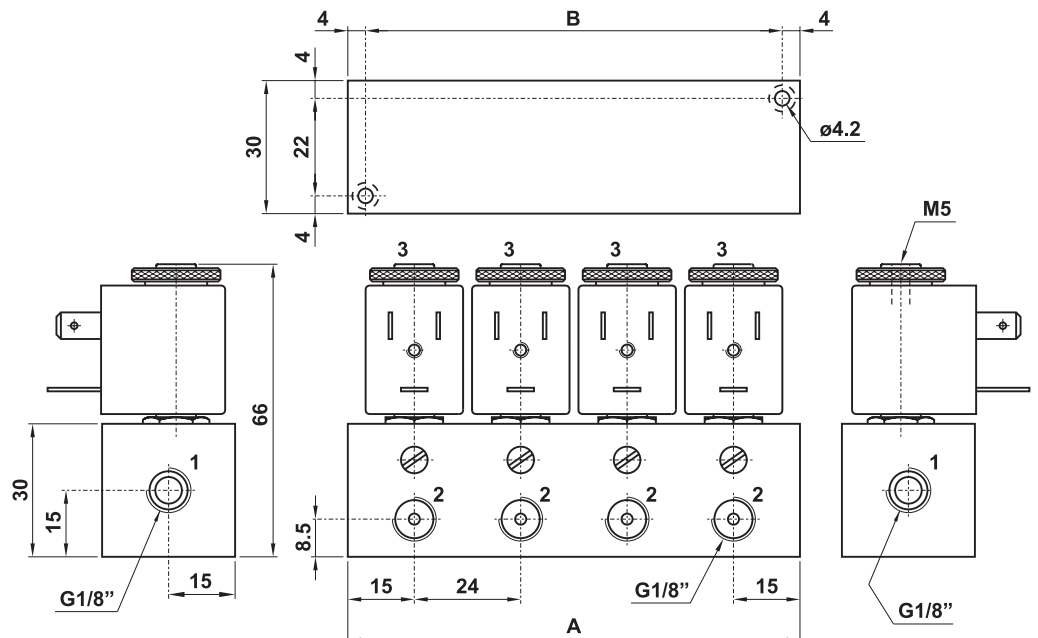
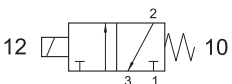
modello model	nr. posizioni no. stations	A	B
00.072.3	2	56	44
00.073.3	3	79	67
00.074.3	4	102	90
00.075.3	5	125	113
00.076.3	6	148	136
00.077.3	7	171	159
00.078.3	8	194	182
00.079.3	9	217	205
00.080.3	10	240	228

## elettropiloti 3/2 NC su base con azionatore manuale bistabile 3/2 NC solenoid valves on manifold with detented manual override

22 mm



- diametro nominale 1.1 mm  
nominal orifice 1.1 mm



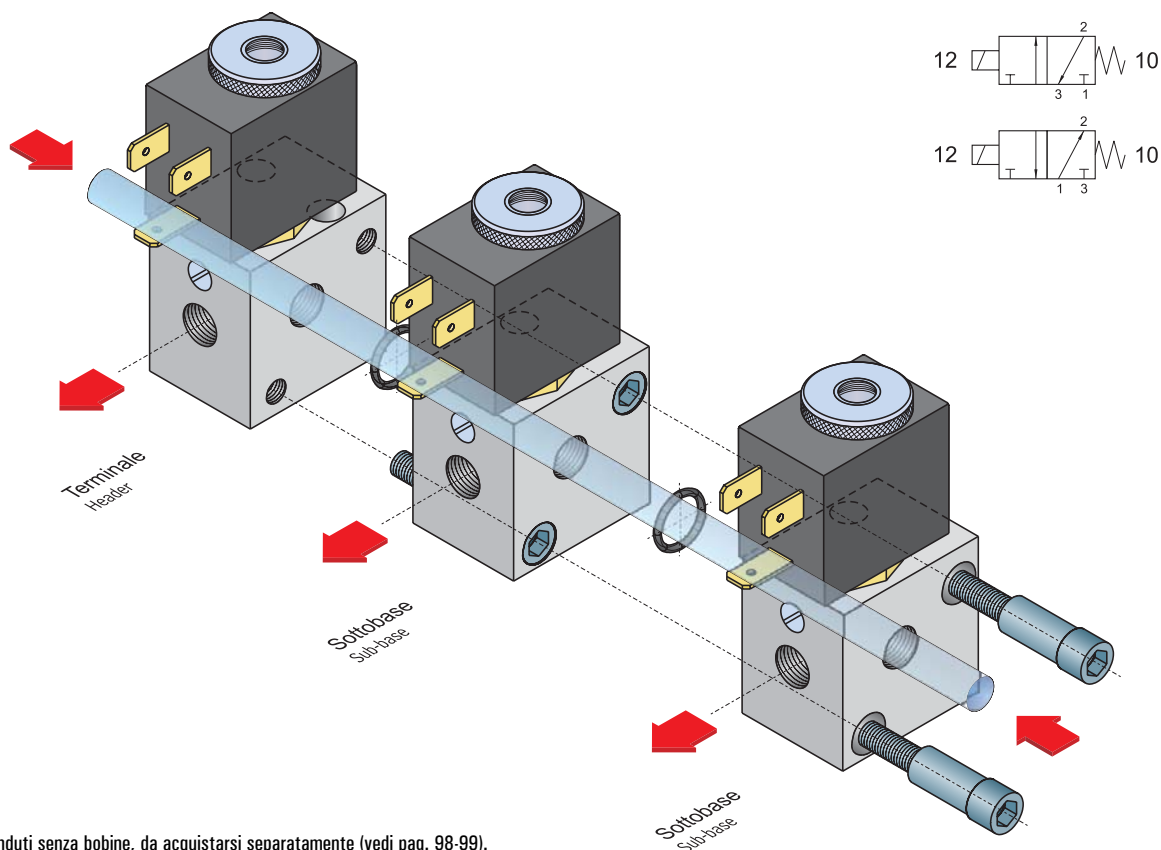
modello model	nr. posizioni no. stations	A	B
00.052.3	2	54	46
00.053.3	3	78	70
00.054.3	4	102	94
00.055.3	5	126	118
00.056.3	6	150	142

# elettropiloti su basi modulari

*solenoid valves on multiple sub-bases*



- Uscite filettate G1/8" o con raccordo automatico per tubo ø4  
*User ports: G1/8" or push-in fittings for ø4 tube*
- I terminali possono essere utilizzati come basi singole  
*Headers can be used also as bases for standing-alone solenoid valves*
- Con o senza azionatore manuale bistabile  
*With or without detented manual override*
- Versione 3/2 normalmente chiusa e normalmente aperta  
*Normally closed and normally open 3/2 version*
- Per bobine da 22 mm (a richiesta per bobine da 30 mm)  
*For 22 mm coils (on request for 30 mm coils)*



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 98-99).  
*The following listed products are sold without coils, which are bought separately (refer to page 98-99).*

Temperatura di esercizio <i>Temperature range</i>	max +60°C
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa
Diametro nominale <i>Nominal orifice</i>	1.1 mm
Fluido <i>Fluid</i>	Aria filtrata 50µ con o senza lubrificazione <i>50µ filtered, lubricated or non lubricated air</i>

Basi e terminali sono venduti con tutti i particolari necessari per l'installazione modulare.  
*Sub-bases and headers are sold with all necessary pieces for installation.*

# elettropiloti su basi modulari

*solenoid valves on multiple sub-bases*



**sottobase**  
*sub-base*

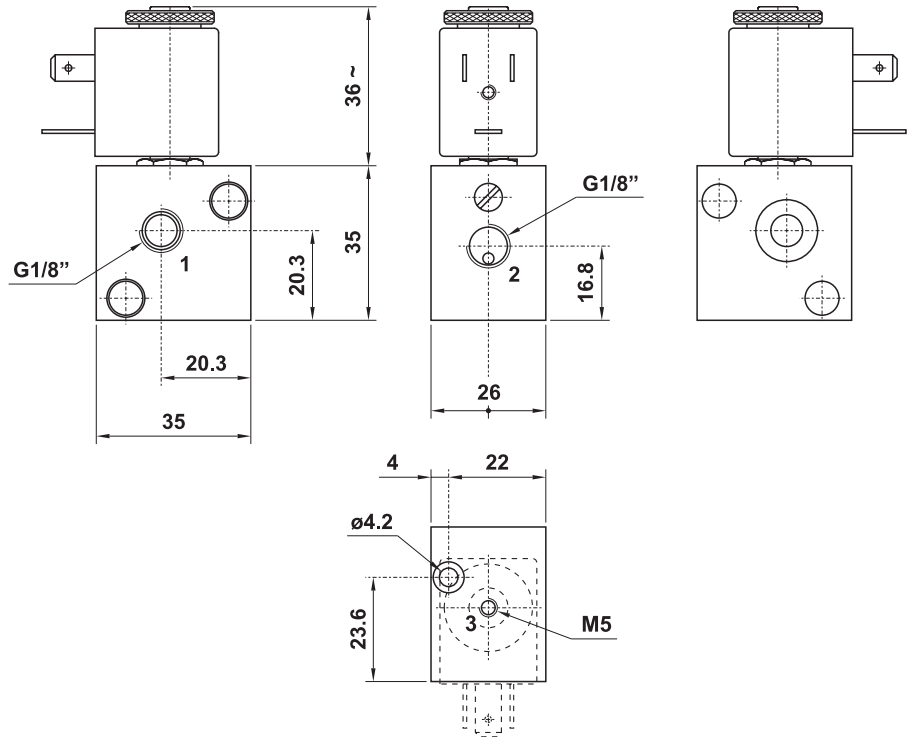
con azionatore manuale bistabile  
*with detented manual override*

**G1/8"**

**CODICE DI ORDINAZIONE - ORDER CODE**

**NC [NC]**

**00.094.3**



**terminale**  
*header*

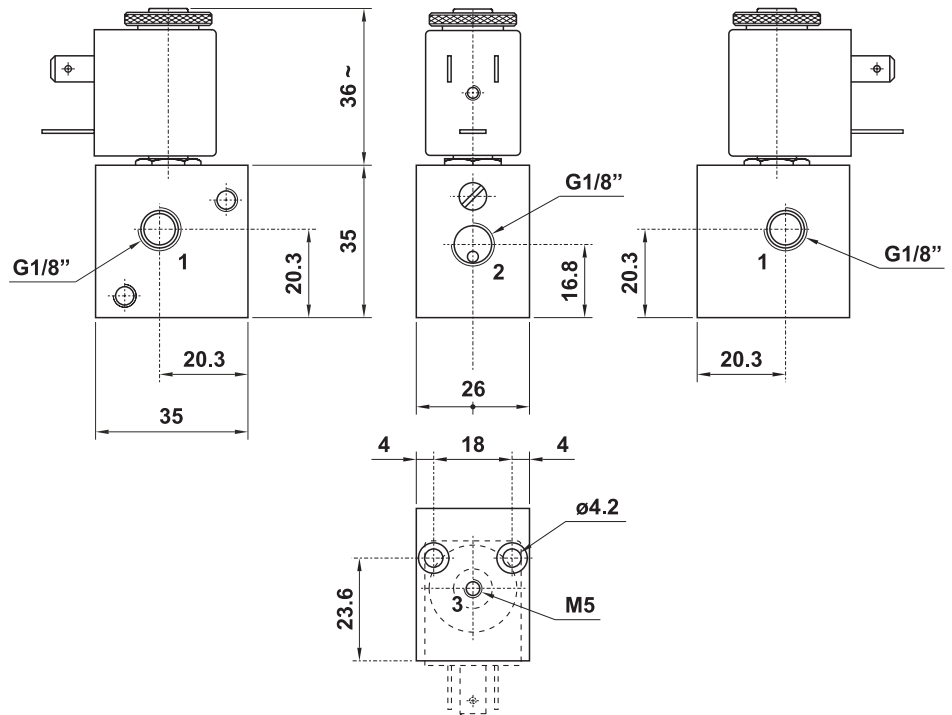
con azionatore manuale bistabile  
*with detented manual override*

**G1/8"**

**CODICE DI ORDINAZIONE - ORDER CODE**

**NC [NC]**

**00.095.3**



# elettropiloti su basi modulari

solenoid valves on multiple sub-bases



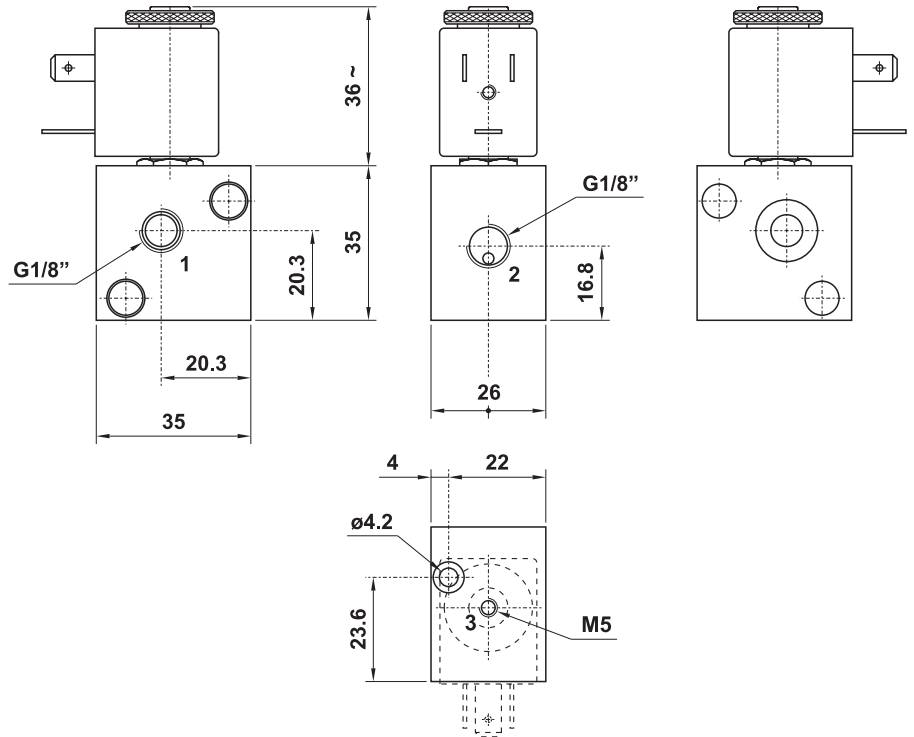
**sottobase**  
*sub-base*

senza azionatore manuale  
*without manual override*

**G1/8"**

**CODICI DI ORDINAZIONE - ORDER CODES**

NC [NC]	NA [NO]
<b>00.096.3</b>	<b>00.130.3</b>



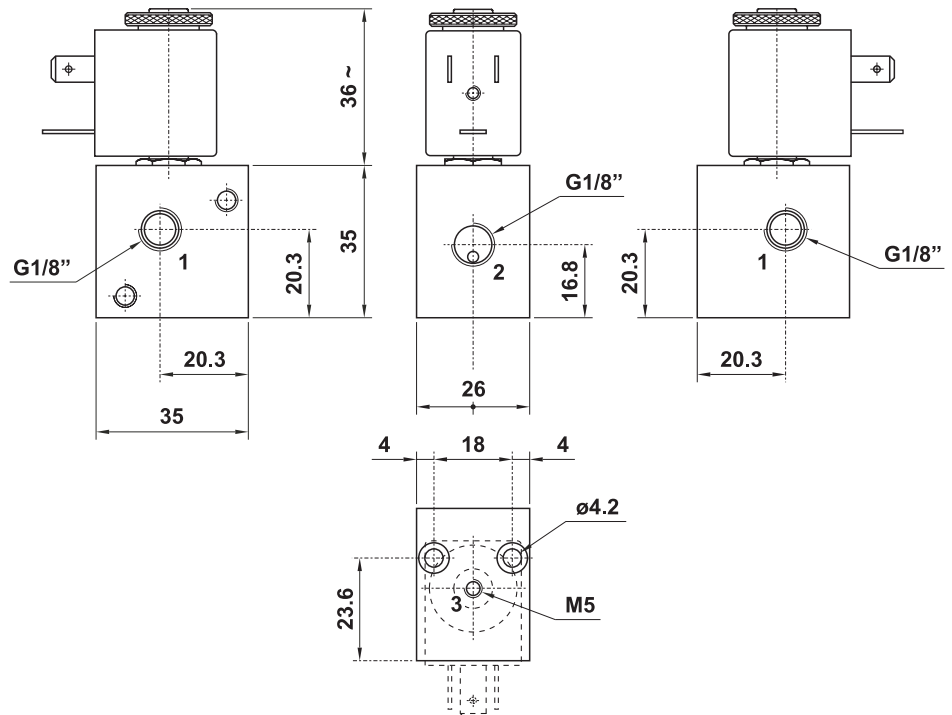
**terminale**  
*header*

senza azionatore manuale  
*without manual override*

**G1/8"**

**CODICI DI ORDINAZIONE - ORDER CODES**

NC [NC]	NA [NO]
<b>00.097.3</b>	<b>00.131.3</b>



# elettropiloti su basi modulari

*solenoid valves on multiple sub-bases*



**sottobase**  
*sub-base*

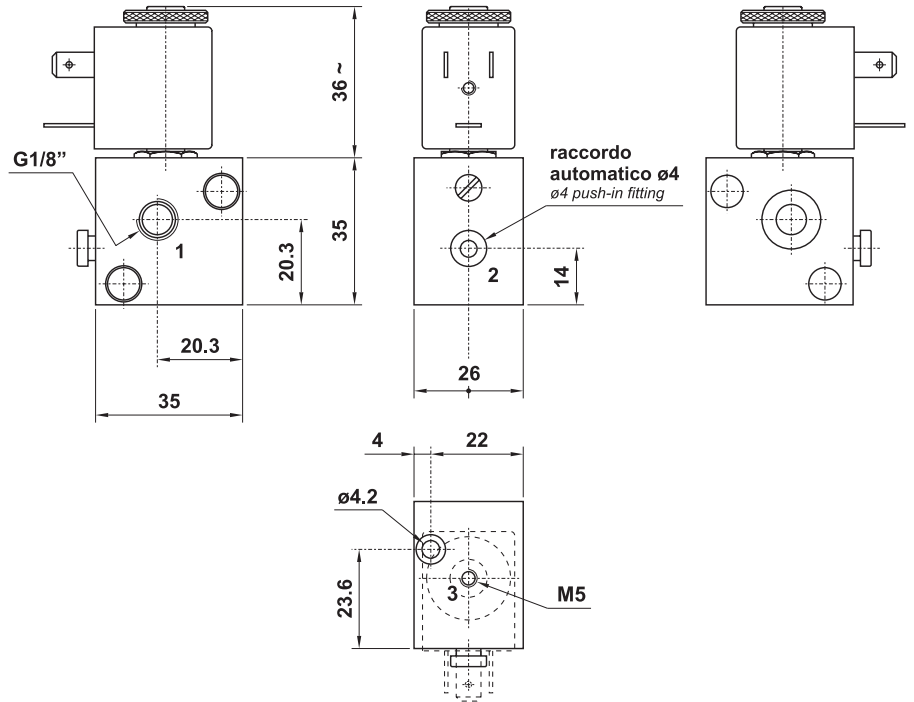
con azionatore manuale bistabile  
*with detented manual override*

**ø4**

**CODICE DI ORDINAZIONE - ORDER CODE**

**NC [NC]**

**00.098.3**



**terminale**  
*header*

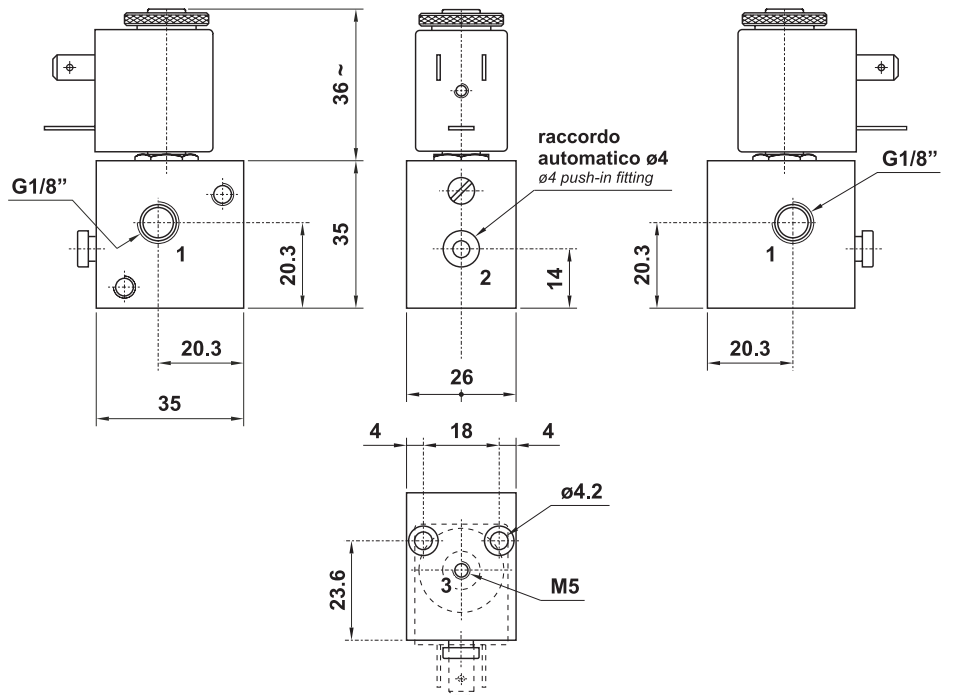
con azionatore manuale bistabile  
*with detented manual override*

**ø4**

**CODICE DI ORDINAZIONE - ORDER CODE**

**NC [NC]**

**00.099.3**



# elettropiloti su basi modulari

solenoid valves on multiple sub-bases



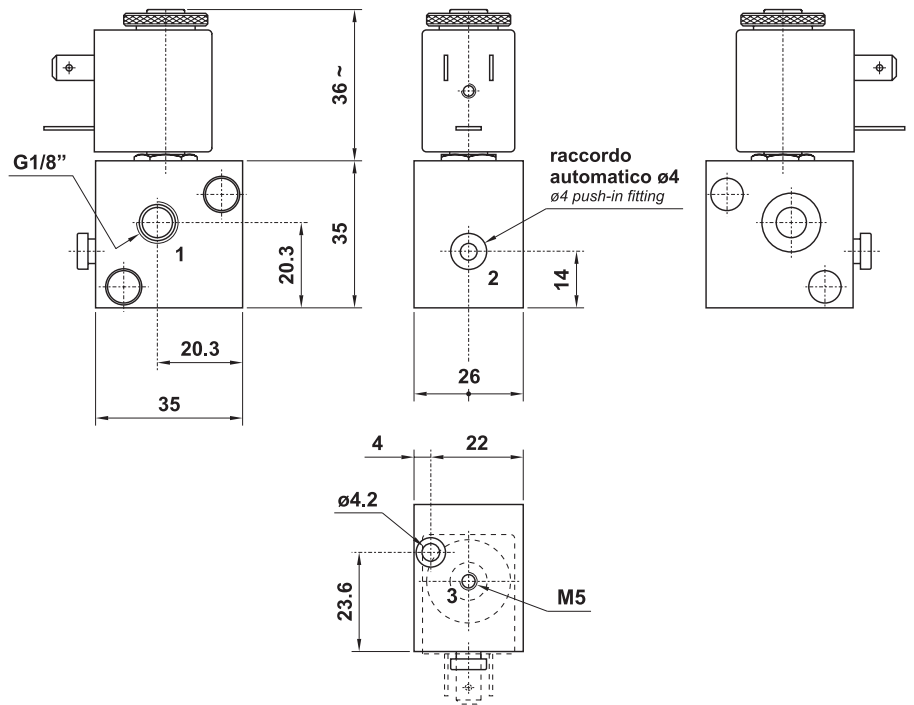
**sottobase**  
*sub-base*

senza azionatore manuale  
*without manual override*

**ø4**

**CODICI DI ORDINAZIONE - ORDER CODES**

NC [NC]	NA [NO]
<b>00.100.3</b>	<b>00.134.3</b>



1

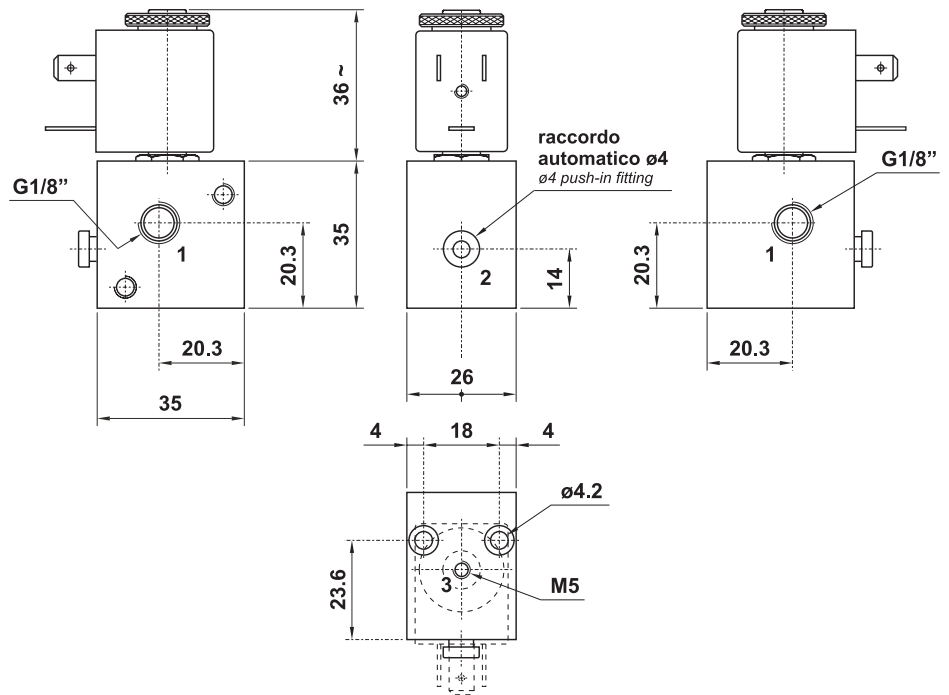
**terminale**  
*header*

senza azionatore manuale  
*without manual override*

**ø4**

**CODICI DI ORDINAZIONE - ORDER CODES**

NC [NC]	NA [NO]
<b>00.101.3</b>	<b>00.135.3</b>



# bobine e connettori 22 mm

22 mm coils and connectors



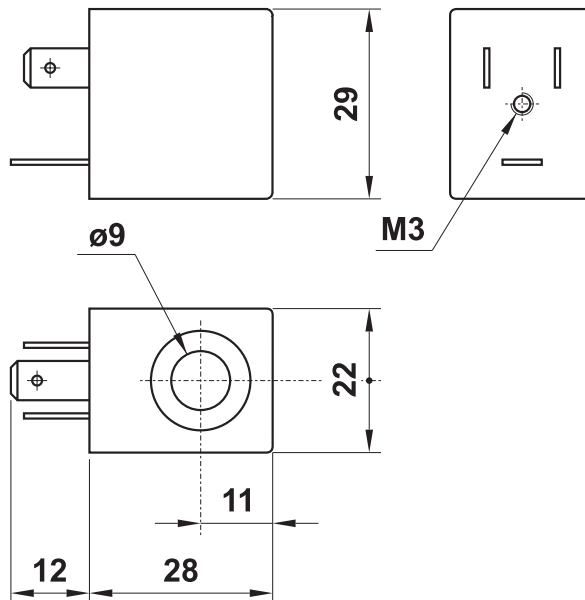
22 mm



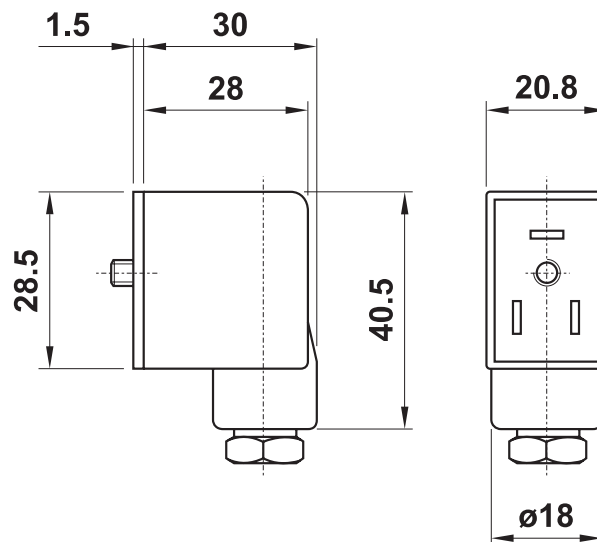
temperatura max di esercizio	<b>+50°C</b>	<i>max working temperature</i>
inserimento	<b>ED 100%</b>	<i>duty cycle</i>
protezione con connettore correttamente montato	<b>IP 65</b>	<i>protection with connector correctly mounted</i>
tolleranza di tensione	<b>±10%</b>	<i>tension tolerance</i>

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

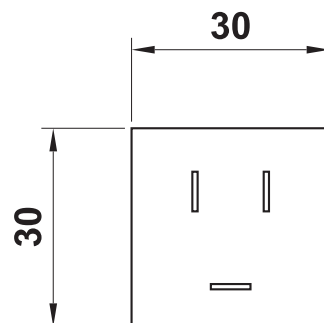
# bobine e connettori 30 mm

30 mm coils and connectors

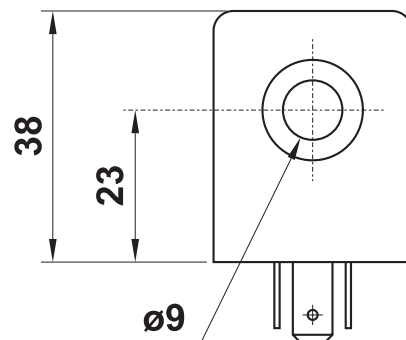


30 mm

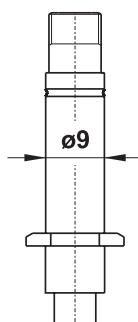
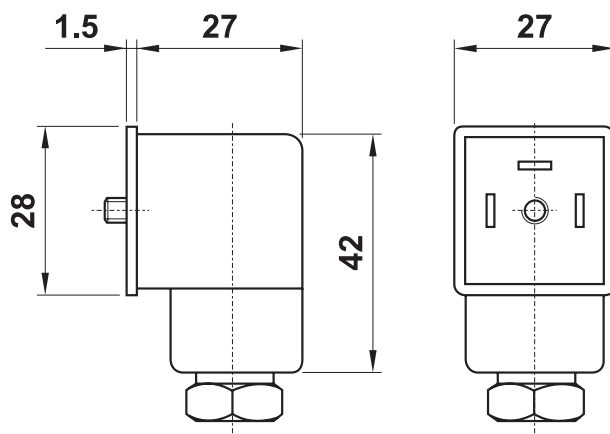
temperatura max di esercizio	+50°C	max working temperature
inserimento	ED 100%	duty cycle
protezione con connettore correttamente montato	IP 65	protection with connector correctly mounted
tolleranza di tensione	±10%	tension tolerance



codice code	tensione tension	consumo - power	
		a regime rated	di spunto inrush
00.258.0	24V DC	2W	
00.259.0	24V 50/60Hz	5VA	9VA
00.260.0	110V 50/60Hz	5VA	9VA
00.261.0	220V 50/60Hz	5VA	9VA



codice code	colore colour	cavo cable	tipo type
00.251.0	nero black	PG09	normale standard
00.348.0	trasparente transparent	PG09	con LED 24V with LED 24V
00.349.0	trasparente transparent	PG09	con LED 24V e VDR with LED 24V and VDR
00.350.0	trasparente transparent	PG09	con LED 115V with LED 115V
00.351.0	trasparente transparent	PG09	con LED 115V e VDR with LED 115V and VDR
00.396.0	trasparente transparent	PG09	con LED 230V with LED 230V
00.397.0	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

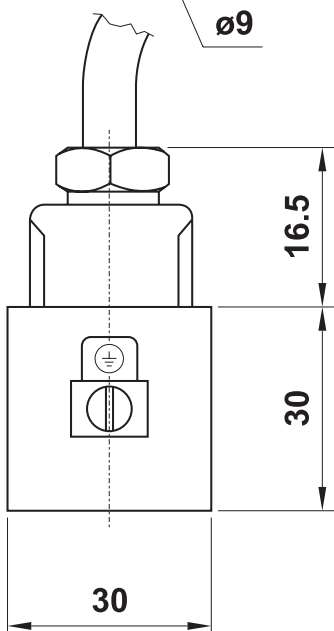
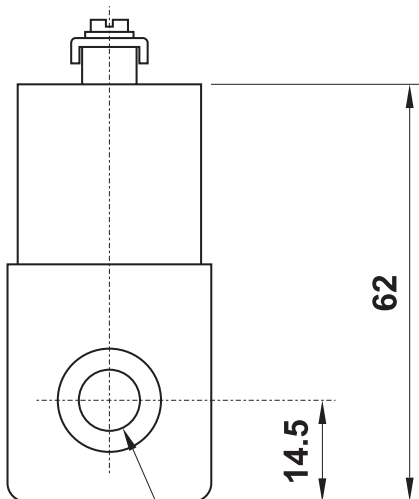
# bobine antideflagranti

explosion proof coils



- Bobine antideflagranti EExm II T5 T4 a norma EN 50014 - EN 50028  
*EExm II T5 T4 explosion proof coils according to EN 50014 - EN 50028*
- Adatte per ambienti potenzialmente esplosivi classe II  
*Suitable for potentially explosive environment class II*
- Con certificato ATEX  
*With ATEX certification*
- Dotate di cavo da 3 o 5 metri  
*With 3 or 5 metres cable*

30 mm



temperatura max di esercizio	<b>+50°C</b>	<i>max working temperature</i>
inserimento	<b>ED 100%</b>	<i>duty cycle</i>
consumo	<b>3W</b>	<i>power consumption</i>
tolleranza sulla tensione	<b>±10%</b>	<i>tension tolerance</i>

modello <i>model</i>	tensione <i>tension</i>	lunghezza cavo <i>cable length</i>
<b>00.284.0</b>	24V DC	3 m
<b>00.305.0</b>	24V DC	5 m
<b>00.332.0</b>	24V 50/60Hz	3 m
<b>00.393.0</b>	24V 50/60Hz	5 m
<b>00.333.0</b>	110V 50/60Hz	3 m
<b>00.336.0</b>	110V 50/60Hz	5 m
<b>00.392.0</b>	220V 50/60Hz	3 m
<b>00.370.0</b>	220V 50/60Hz	5 m



# basi per elettropiloti 15 mm

manifolds for 15 mm solenoid valves

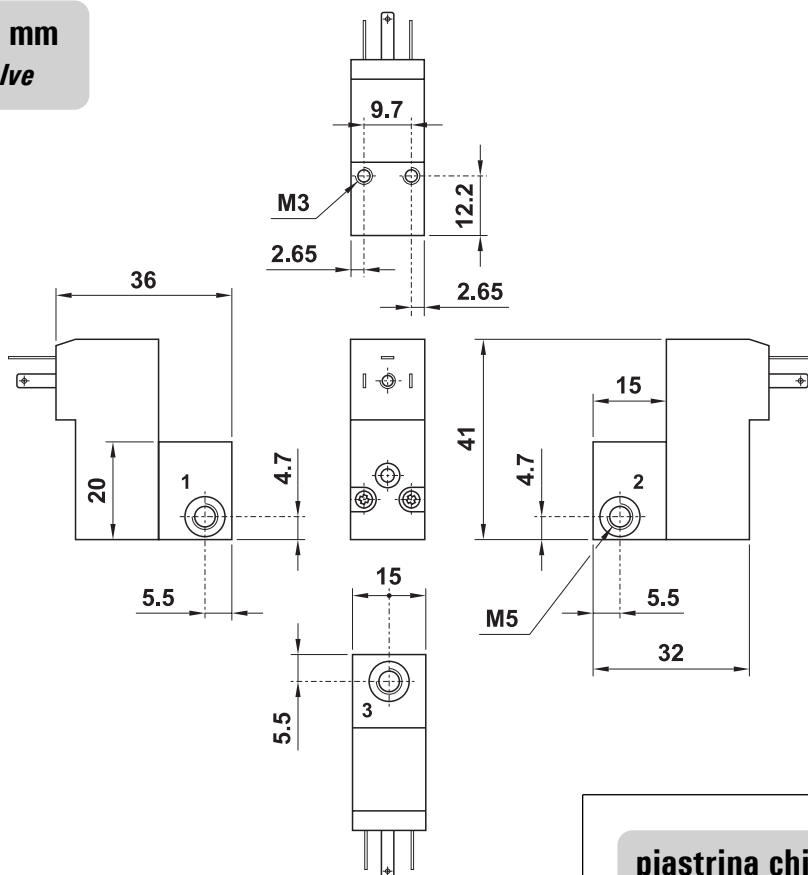


I codici qui riportati si riferiscono alla sola base. Gli elettropiloti devono essere ordinati separatamente (vedi pag. 102).

All here mentioned codes are referred only to manifolds. Solenoid valves are bought separately (see page 102).

## base per elettropilota singolo NC 15 mm single manifold for 15 mm NC solenoid valve

**AU.061.1**

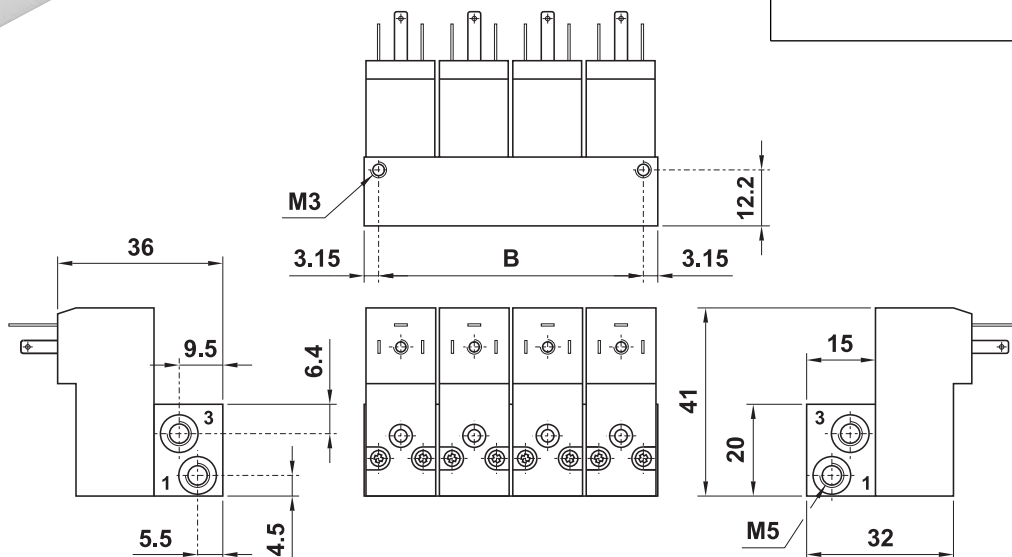
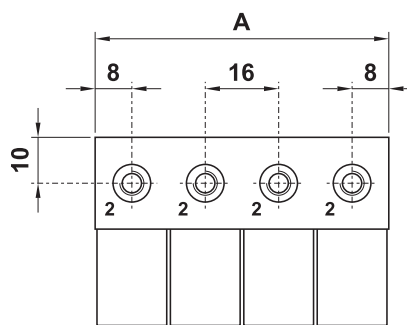


piastrina chiusura  
blanking plate

**00.093.2**



## basi a posti fissi per elettropiloti NC 15 mm manifolds for 15 mm NC solenoid valves



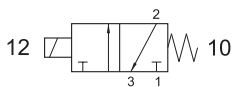
modello model	nr. posizioni no. stations	A	B
AU.062.1	2	32	25.7
AU.063.1	3	48	41.7
AU.064.1	4	64	57.7
AU.065.1	5	80	73.7
AU.066.1	6	96	89.7
AU.067.1	7	112	105.7
AU.068.1	8	128	121.7
AU.069.1	9	144	137.7
AU.070.1	10	160	153.7

# elettropiloti e connettori 15 mm

15 mm solenoids and connectors



15 mm

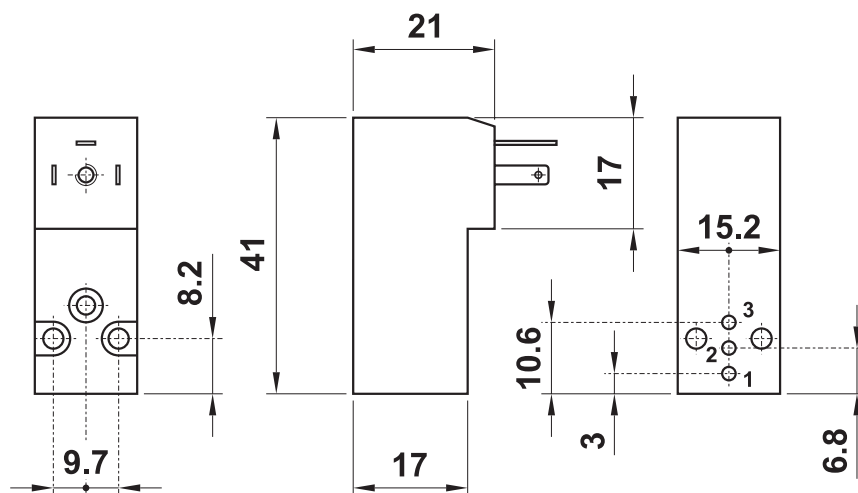


funzione della valvola	<b>3/2 NC</b>	<i>valve function</i>
diámetro nominale	<b>1.1 mm</b>	<i>nominal orifice</i>
portata 1-2	<b>30 NI/min</b>	<i>flow rate 1-2</i>
portata 2-3	<b>35 NI/min</b>	<i>flow rate 2-3</i>
pressione di esercizio	<b>max 10 bar</b>	<i>working pressure</i>
durata cicli	<b>100x10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

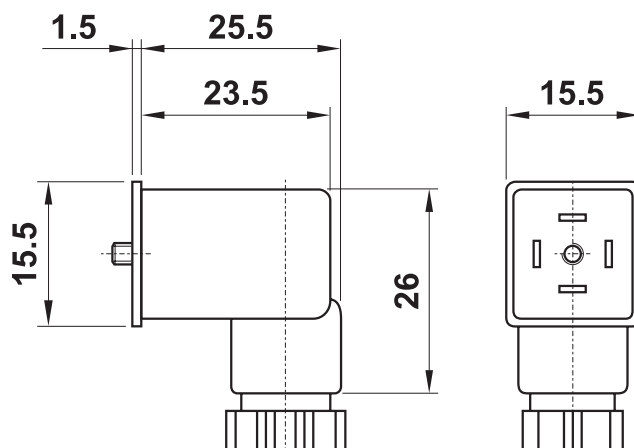


- Connessione elettrica: DIN 43650 forma C  
*Electrical connection: DIN 43650, C form*
- Con azionatore manuale monostabile  
*With non-detented manual override*

codice <i>code</i>	tensione <i>tension</i>
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 <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.252.0	nero <i>black</i>	PG07	normale <i>standard</i>
00.340.0	trasparente <i>transparent</i>	PG07	con LED 24V <i>with LED 24V</i>
00.341.0	trasparente <i>transparent</i>	PG07	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.342.0	trasparente <i>transparent</i>	PG07	con LED 115V <i>with LED 115V</i>
00.343.0	trasparente <i>transparent</i>	PG07	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.398.0	trasparente <i>transparent</i>	PG07	con LED 230V <i>with LED 230V</i>
00.399.0	trasparente <i>transparent</i>	PG07	con LED 230V e VDR <i>with LED 230V and VDR</i>



# valvole ad azionamento elettropneumatico

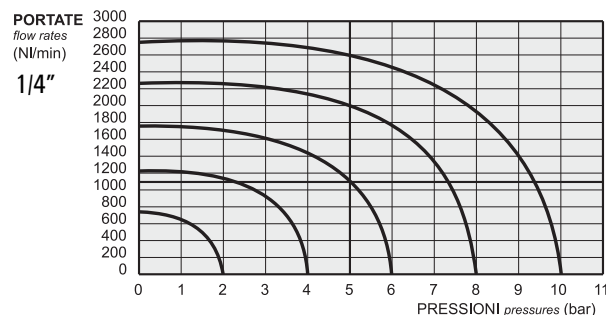
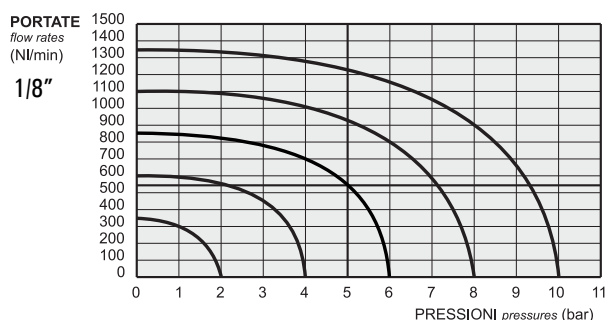
*solenoid actuated valves*



- 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

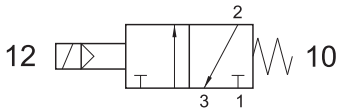
solenoid actuated valves



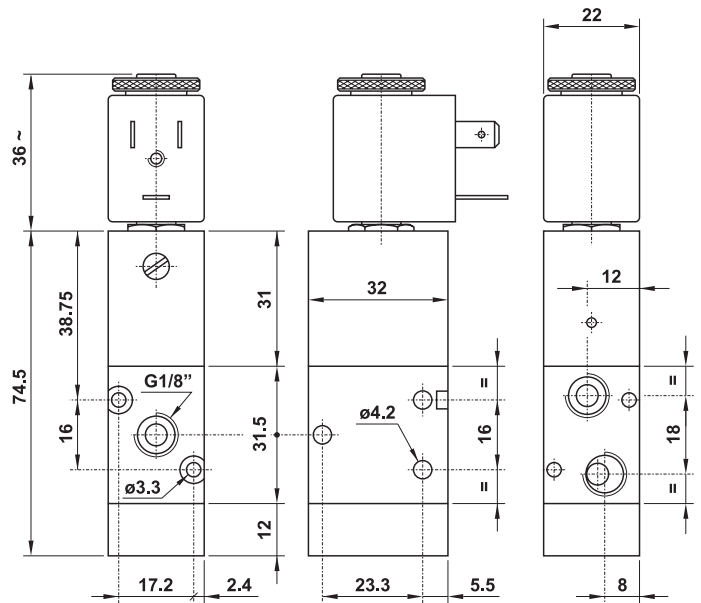
## 321 ME

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

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



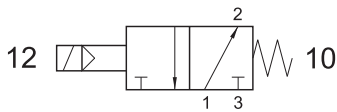
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



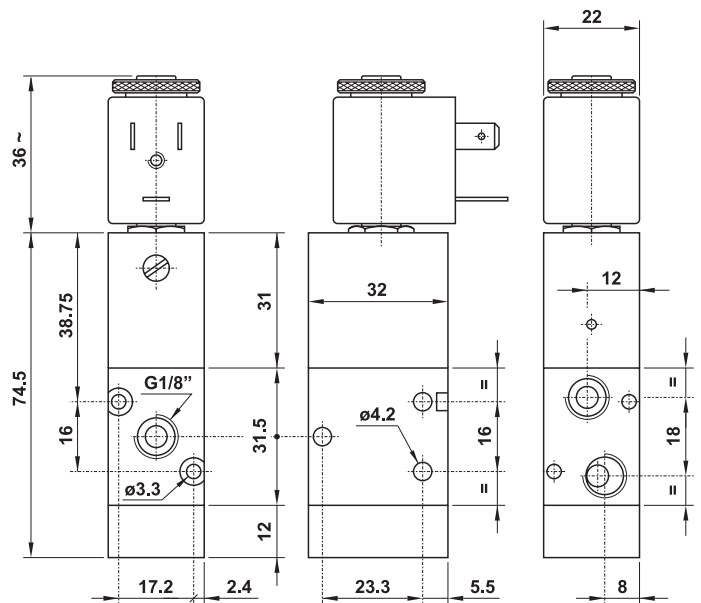
## 321 MEA

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

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



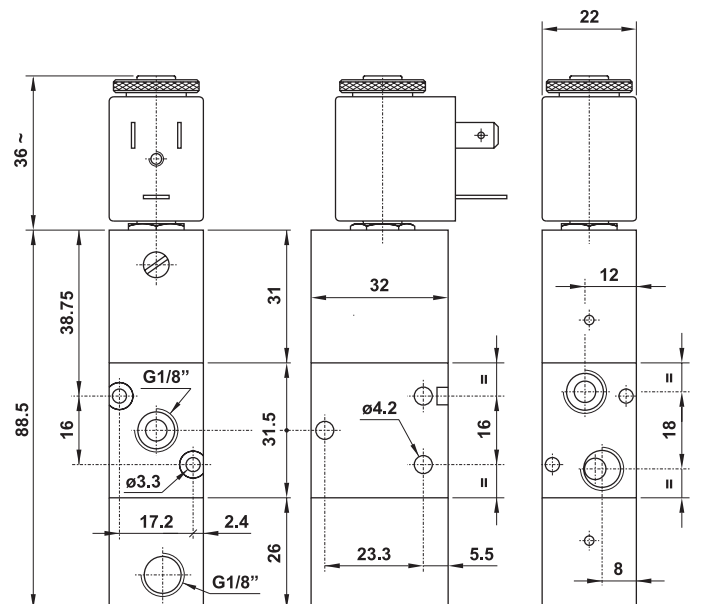
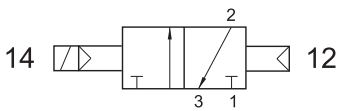
Non può essere utilizzata come valvola normalmente chiusa.  
It cannot be used as normally closed valve.



## 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

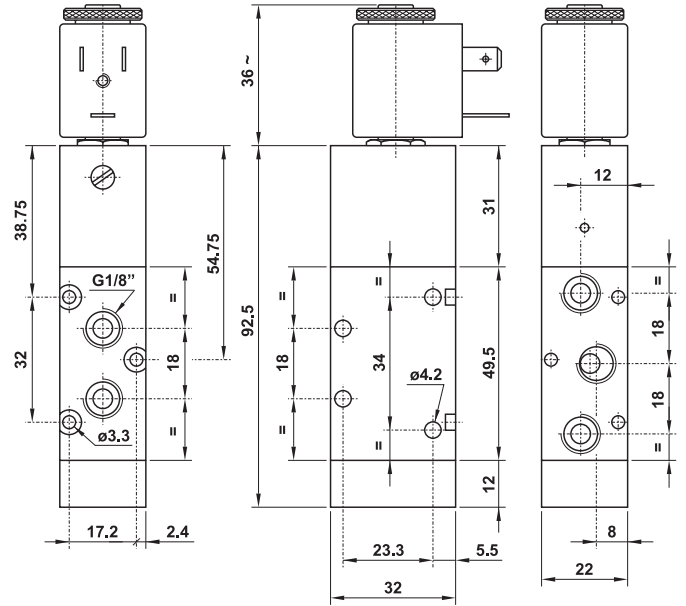
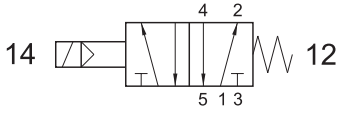
*solenoid actuated valves*



## 521 ME

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

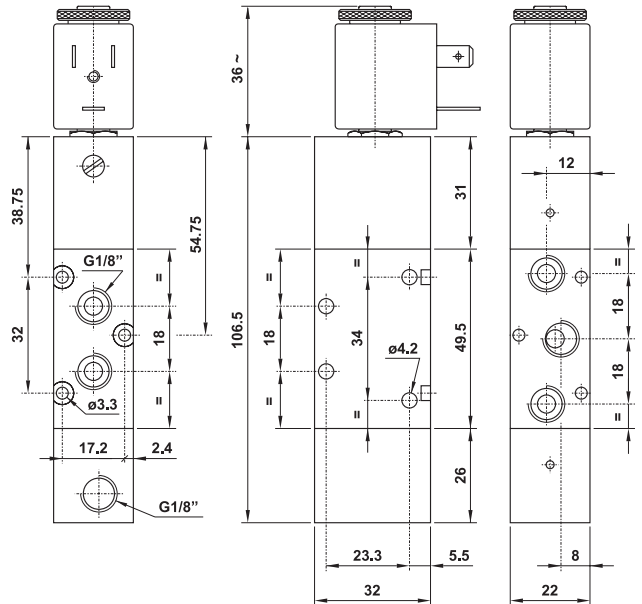
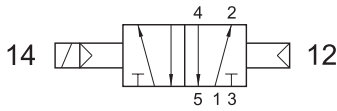
5/2 1/8" solenoid pilot - spring return



## 521 CE

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

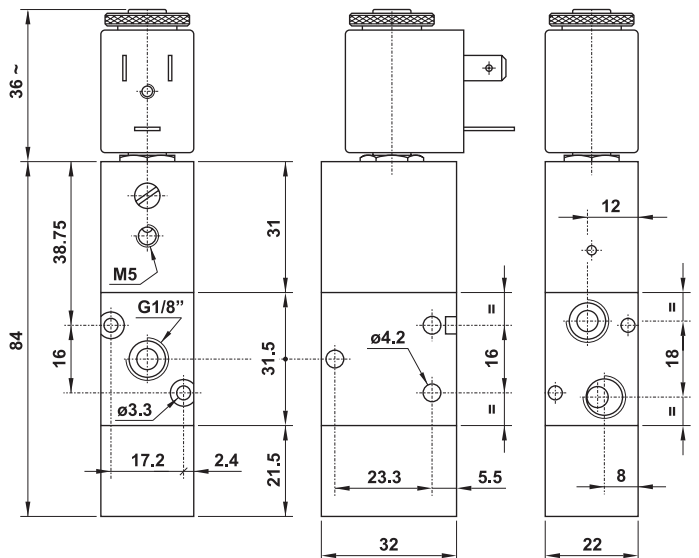
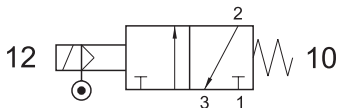
5/2 1/8" solenoid pilot - separate pneumatically piloted return



## 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



# valvole ad azionamento elettropneumatico

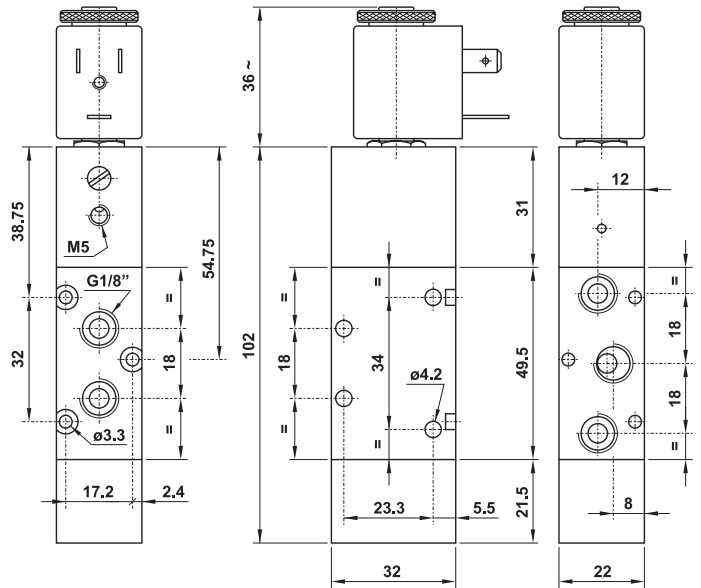
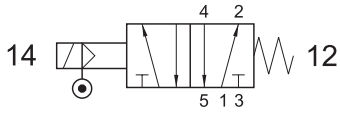
*solenoid actuated valves*



## 521 ME AS

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

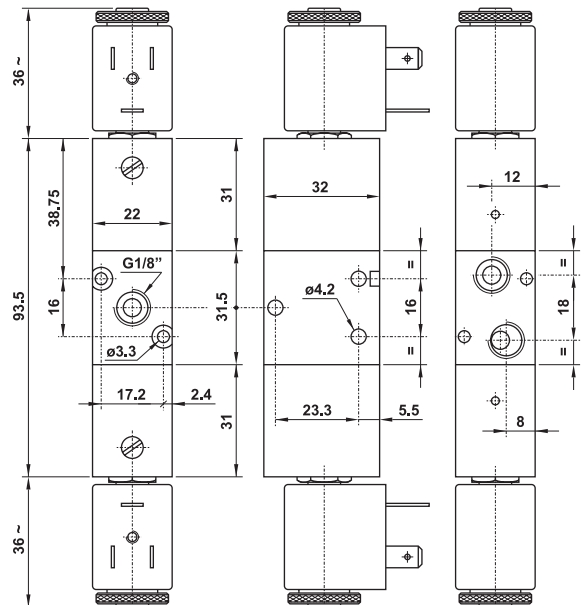
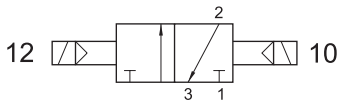
5/2 1/8" solenoid pilot with separate air supply - spring return



## 321 EE

3/2 1/8" doppio comando elettrico

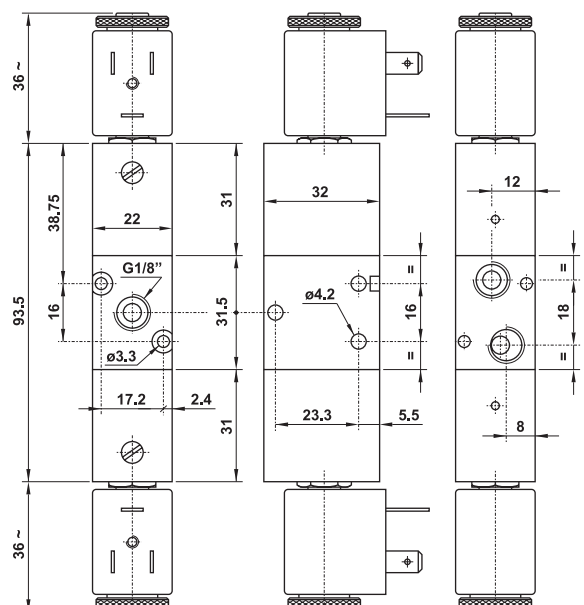
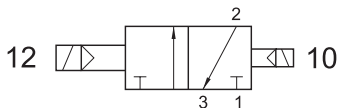
3/2 1/8" double solenoid pilot



## 321 EED

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

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



# valvole ad azionamento elettropneumatico

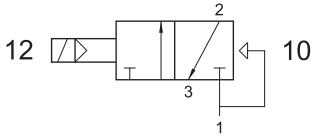
*solenoid actuated valves*



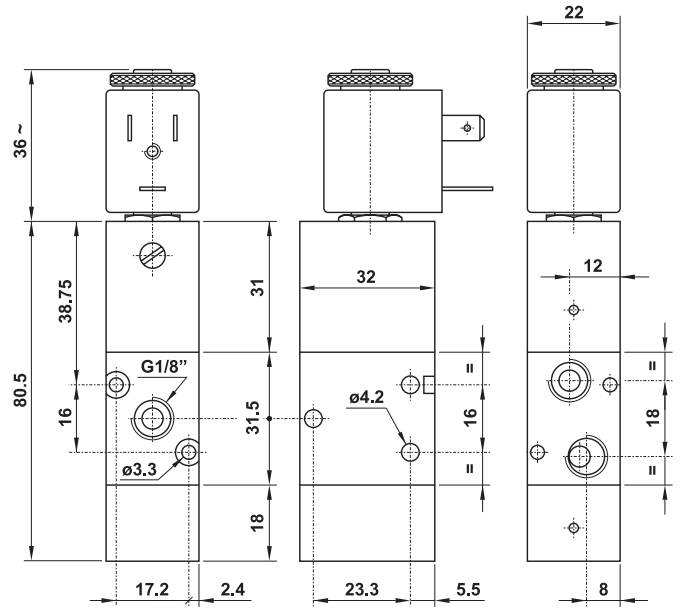
## 321 EFP

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

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



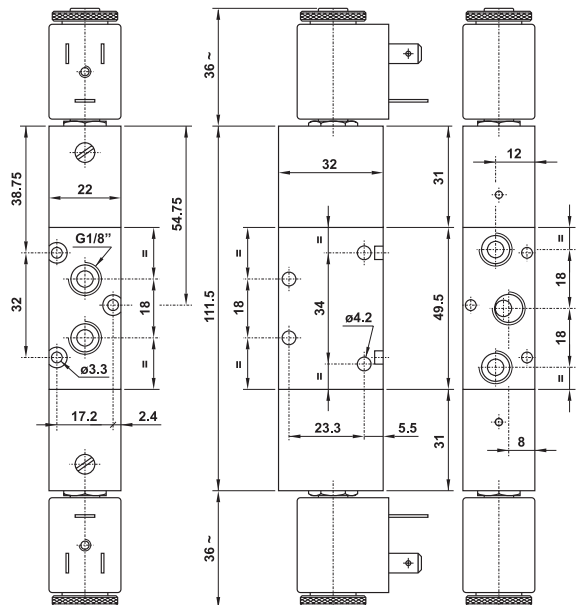
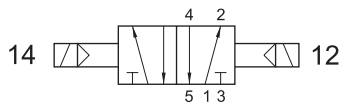
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



## 521 EE

5/2 1/8" doppio comando elettrico

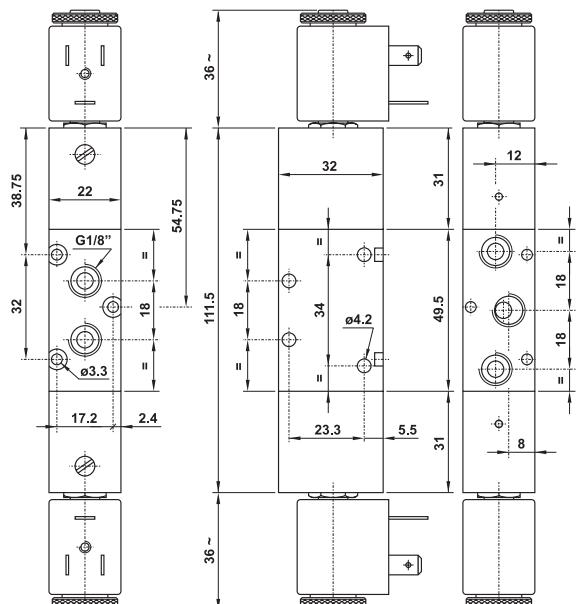
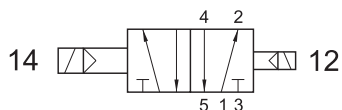
5/2 1/8" double solenoid pilot



## 521 EED

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

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



# valvole ad azionamento elettropneumatico

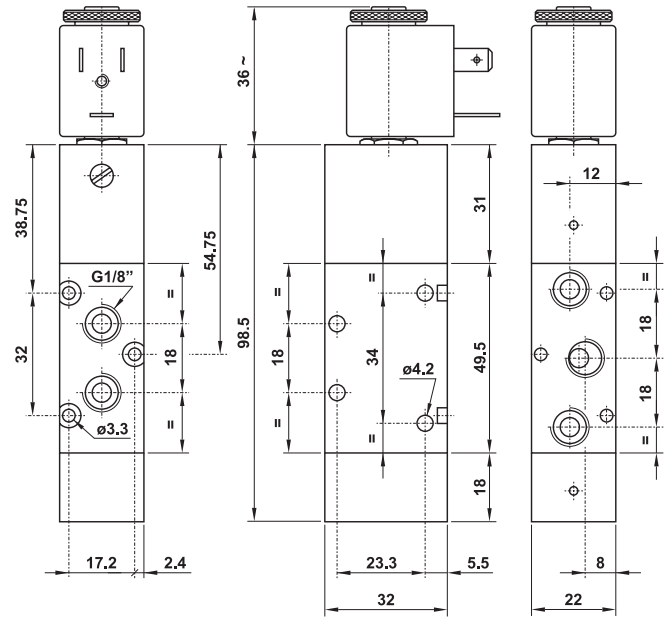
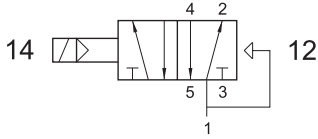
*solenoid actuated valves*



## 521 EFP

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

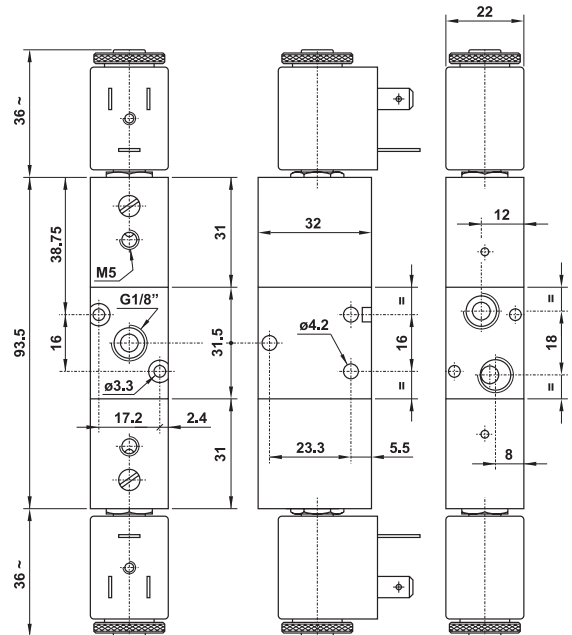
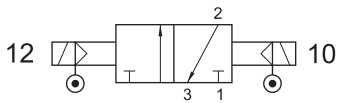
5/2 1/8" solenoid pilot - pneumatic spring return



## 321 EE AS

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

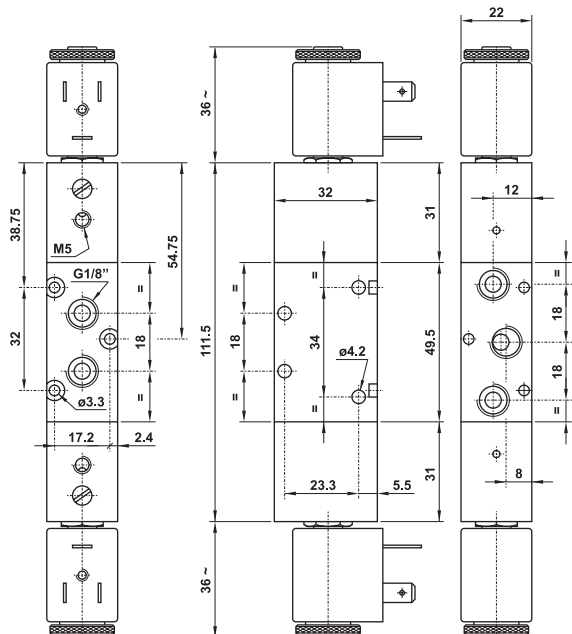
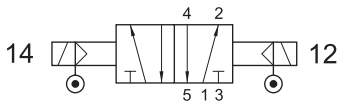
3/2 1/8" double solenoid pilot with separate air supply



## 521 EE AS

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

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





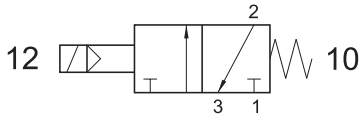
# valvole ad azionamento elettropneumatico

solenoid actuated valves

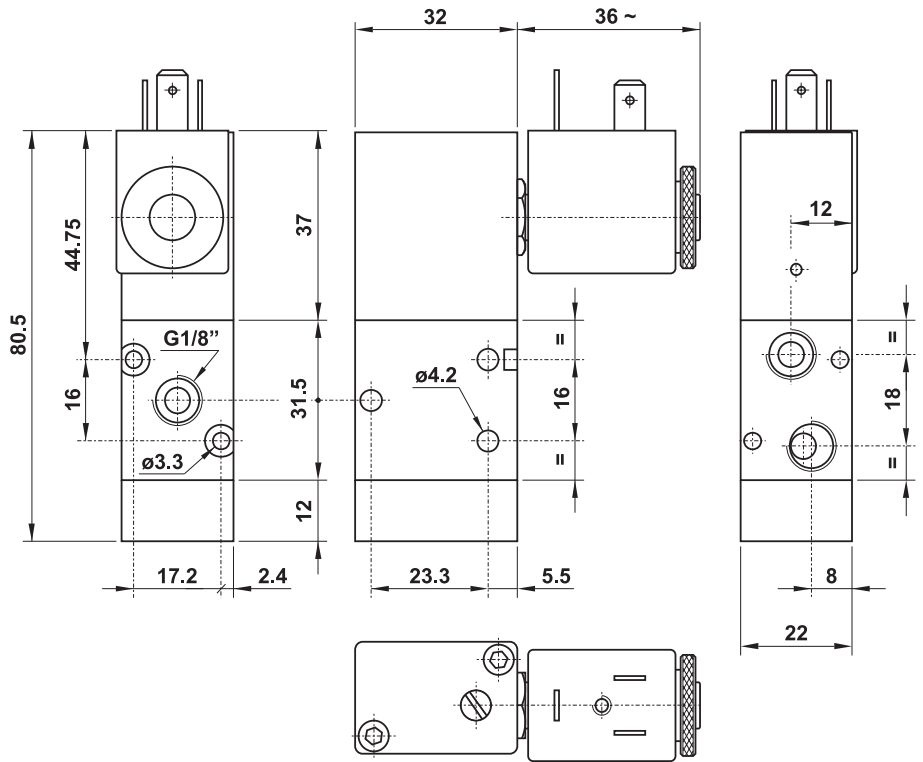


## 321 ME90 S

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

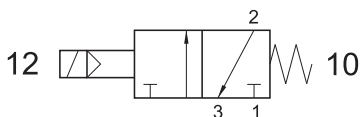


Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.

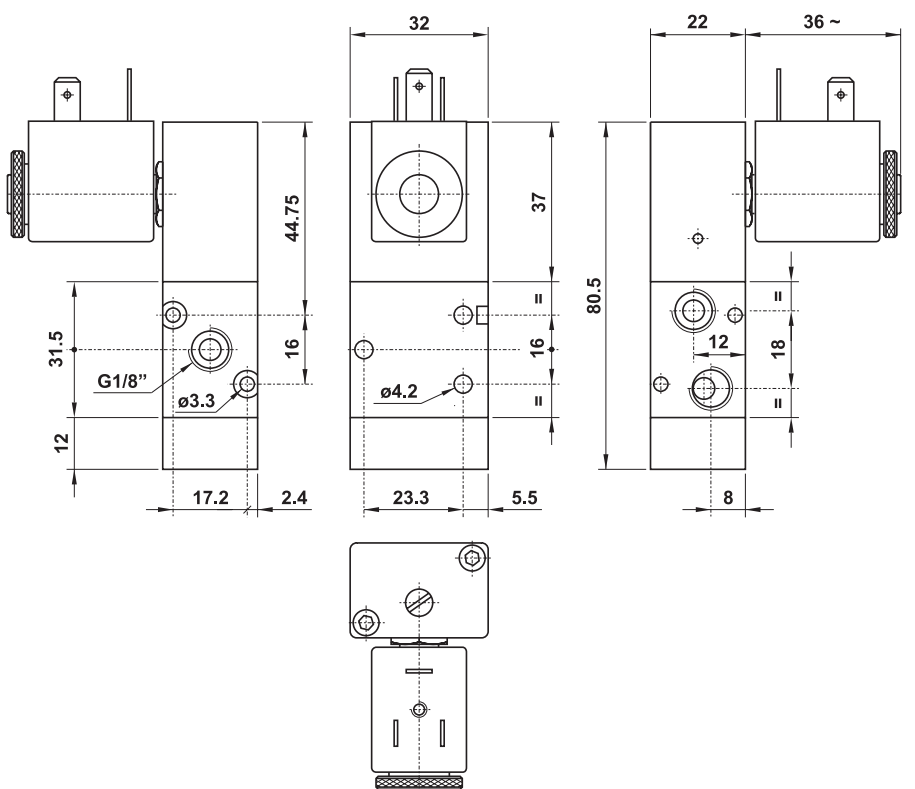
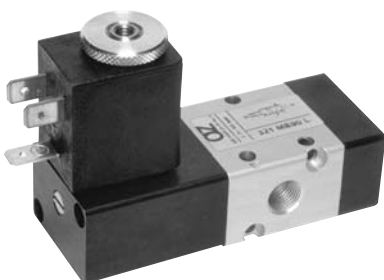


## 321 ME90 L

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



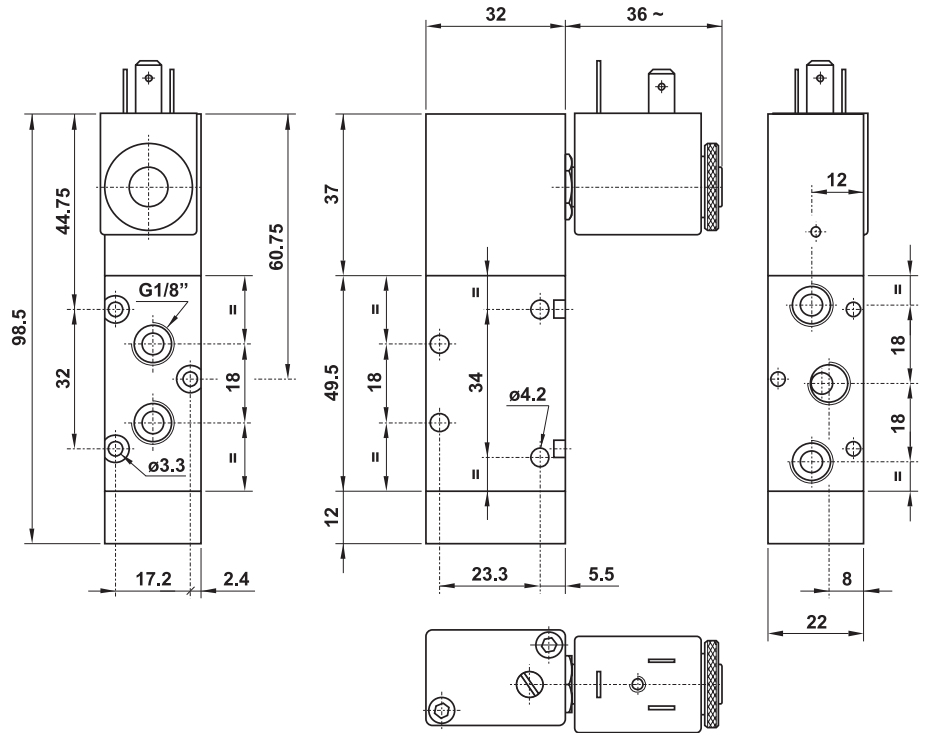
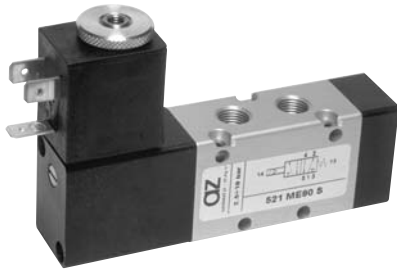
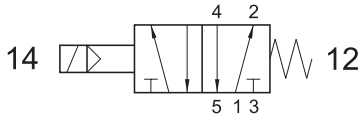
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



## 521 ME90 S

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

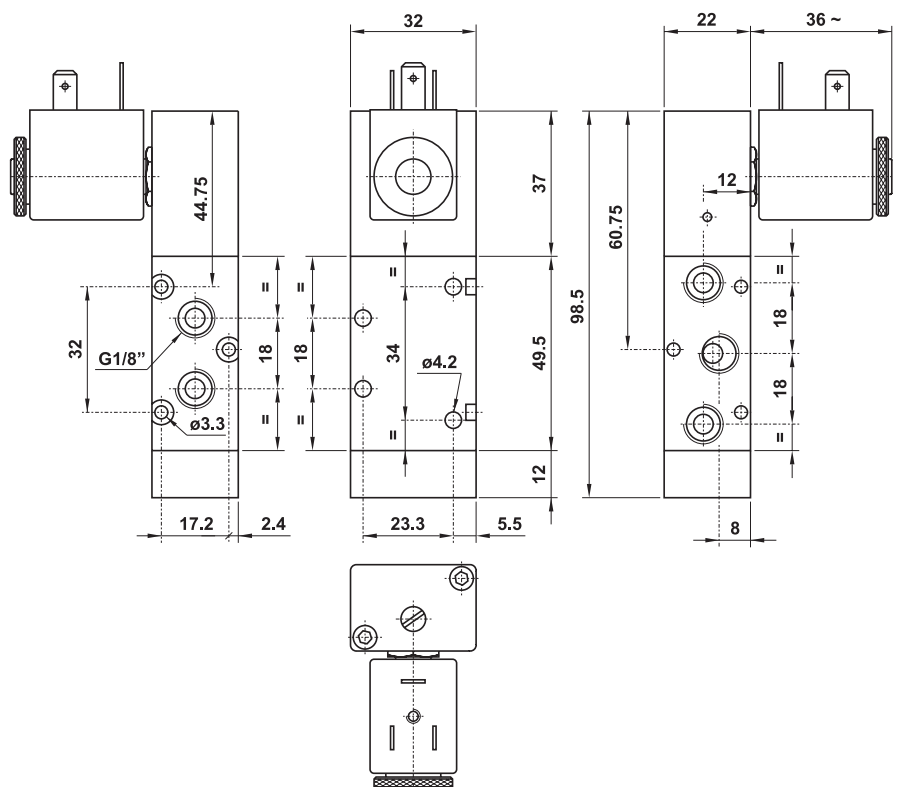
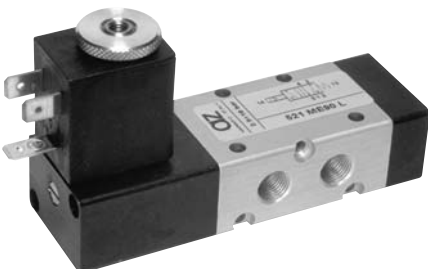
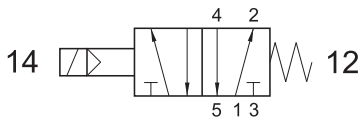
5/2 1/8" 90° solenoid pilot on the narrow side for compact assembly - spring return



## 521 ME90 L

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

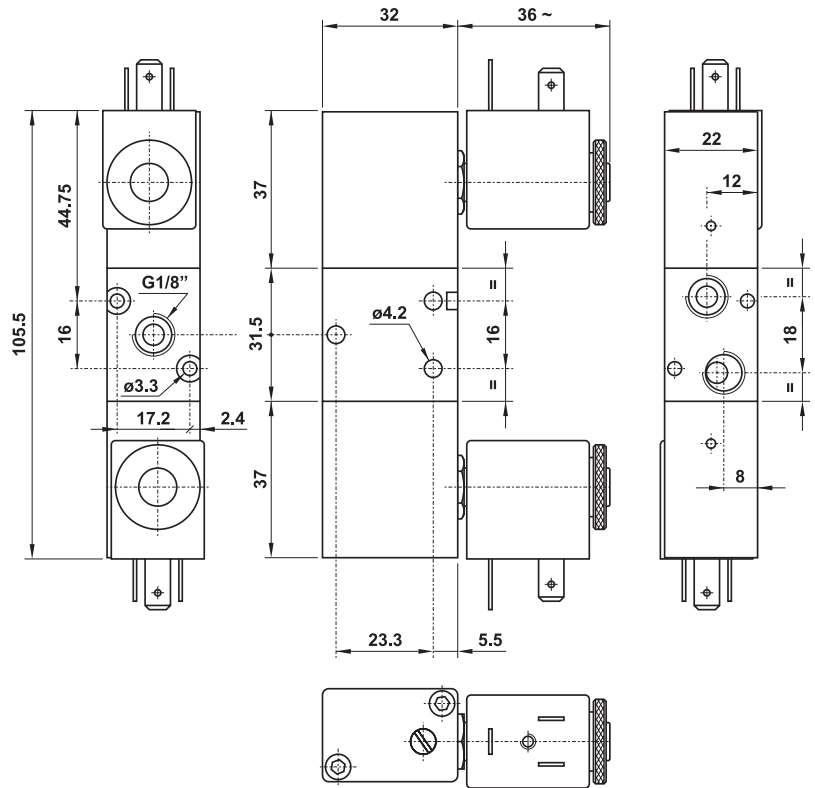
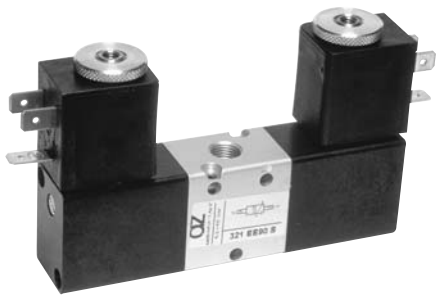
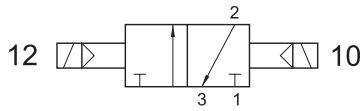
5/2 1/8" 90° solenoid pilot on the wide side - spring return



## 321 EE90 S

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

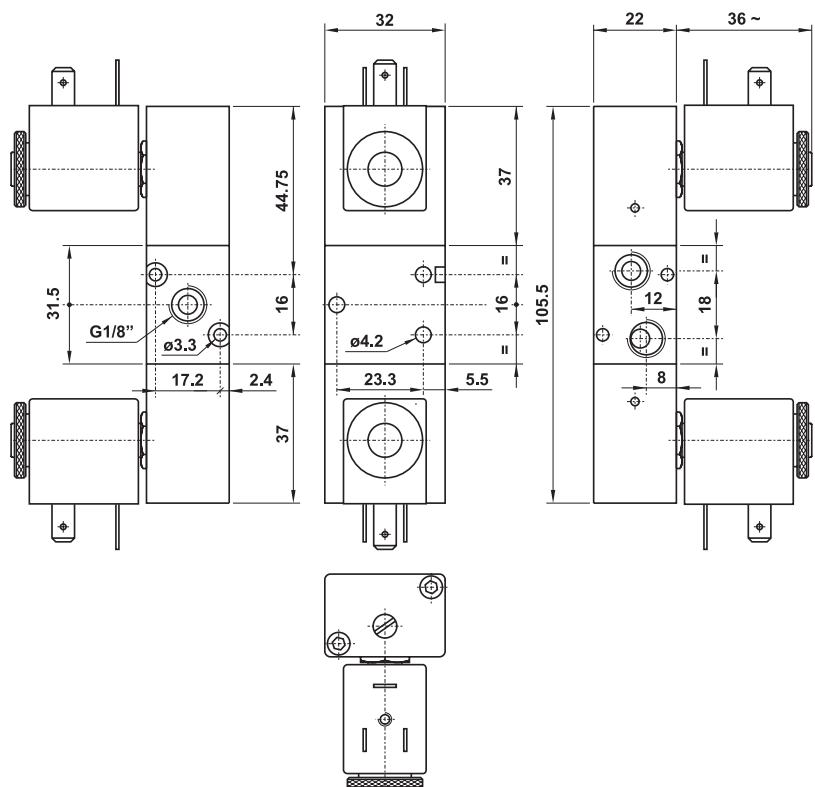
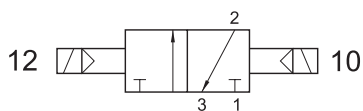
3/2 1/8" 90° double solenoid pilot on the narrow side for compact assembly



## 321 EE90 L

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

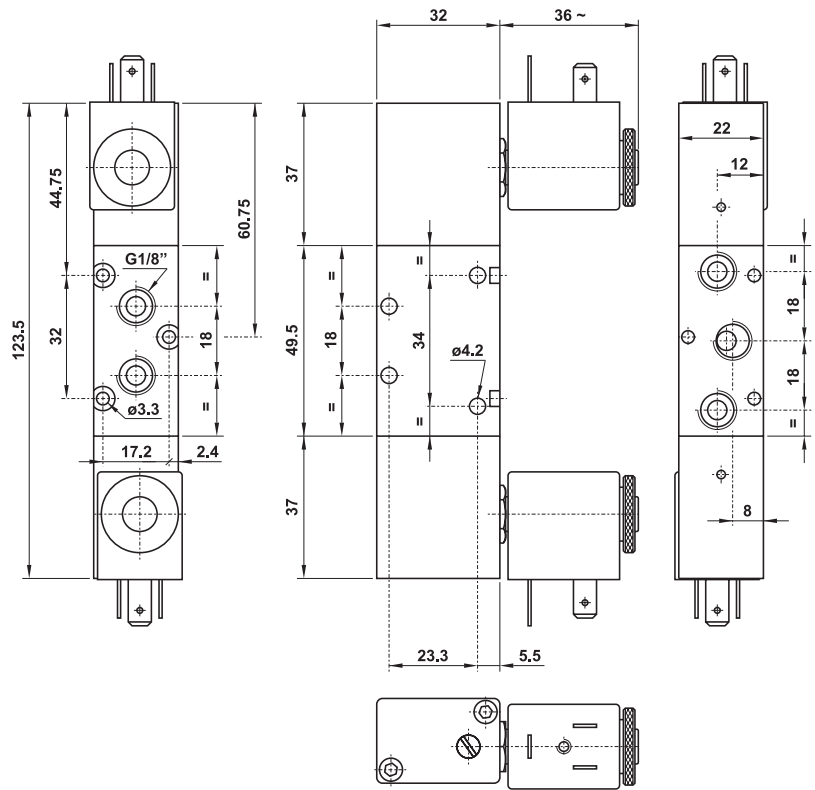
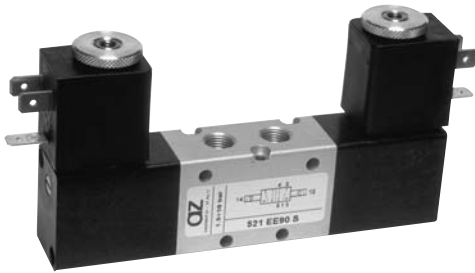
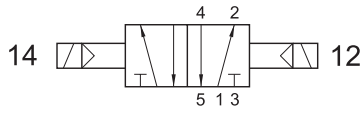
3/2 1/8" 90° double solenoid pilot on the wide side



## 521 EE90 S

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

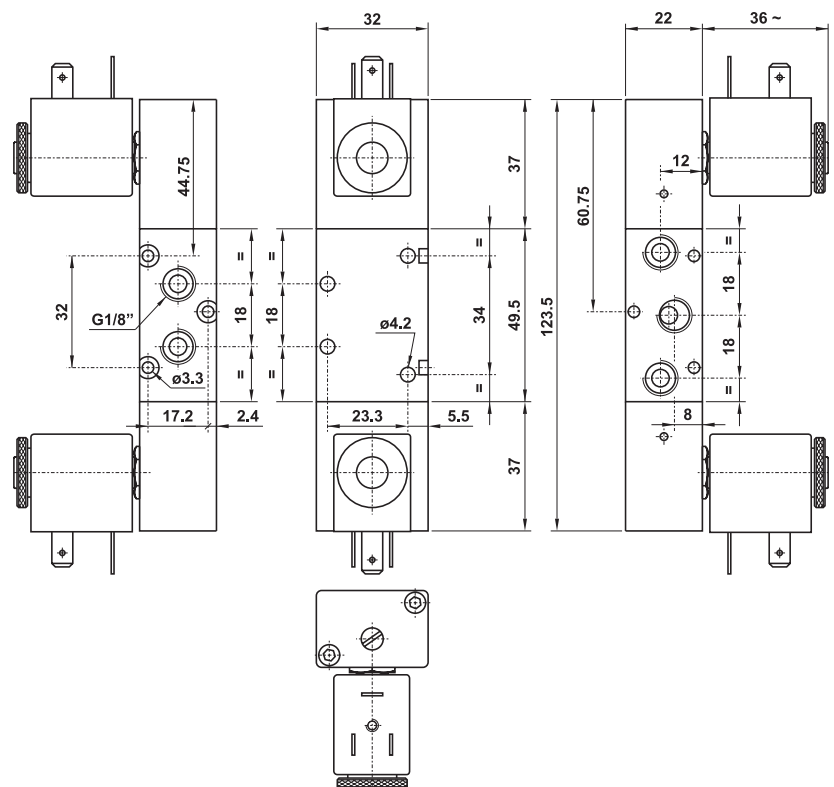
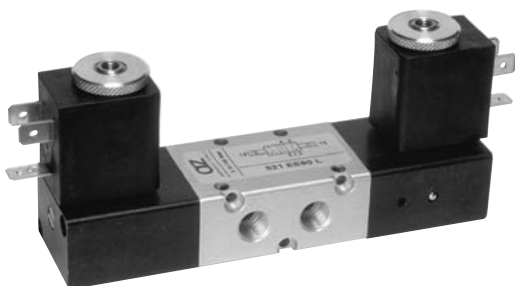
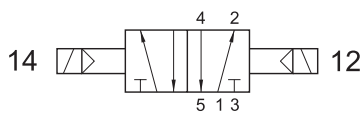
5/2 1/8" 90° double solenoid pilot on the narrow side for compact assembly



## 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

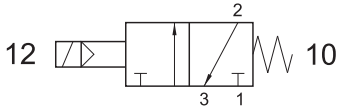
*solenoid actuated valves*



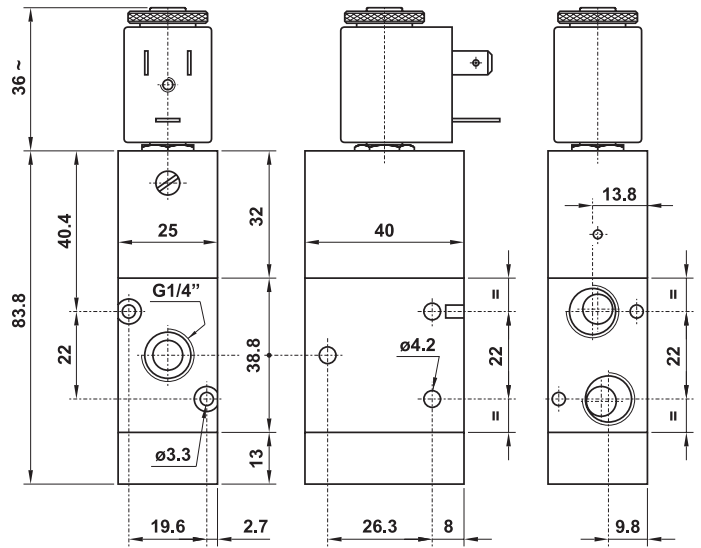
## 322 ME

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

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



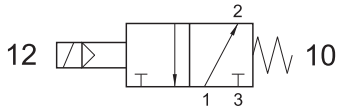
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



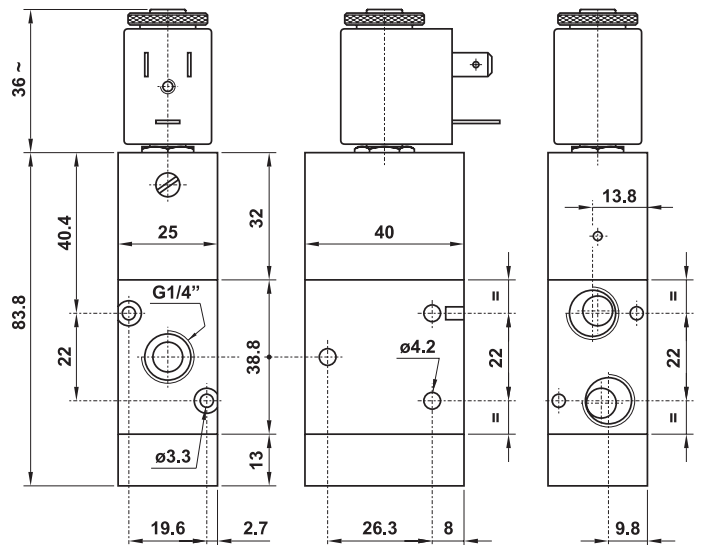
## 322 MEA

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

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



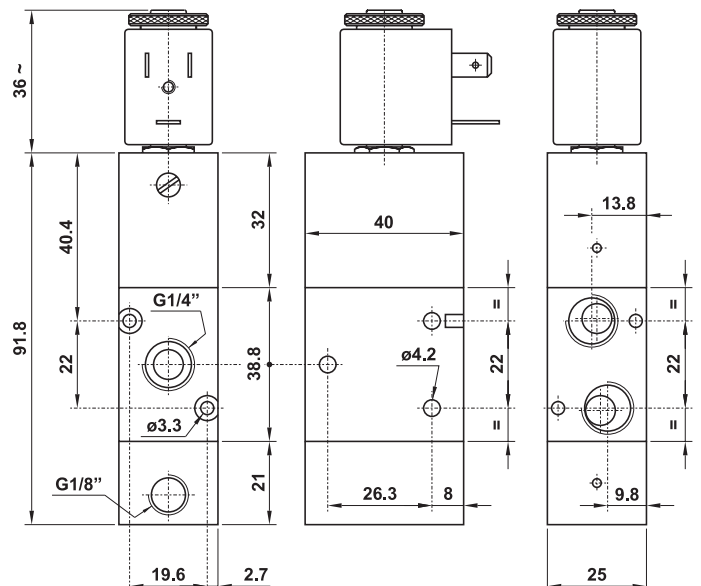
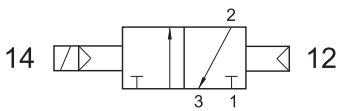
Non può essere utilizzata come valvola normalmente chiusa.  
It cannot be used as normally closed valve.



## 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

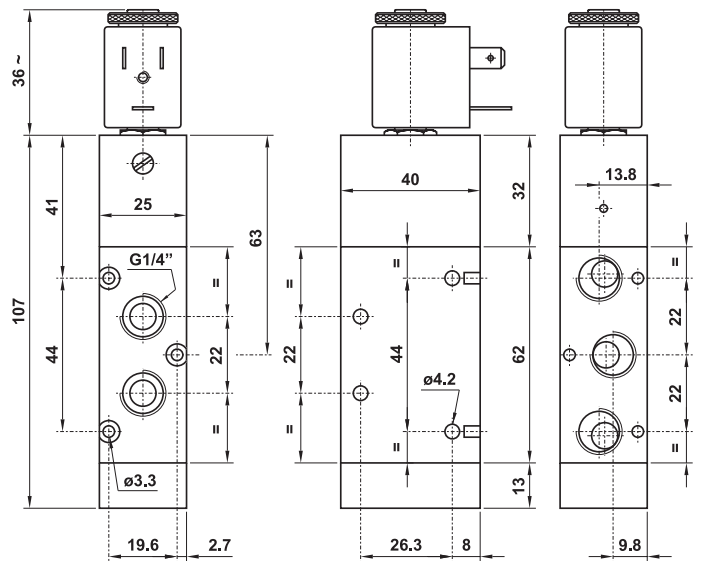
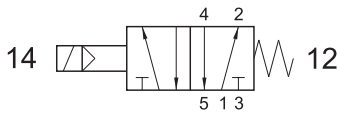
*solenoid actuated valves*



## 522 ME

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

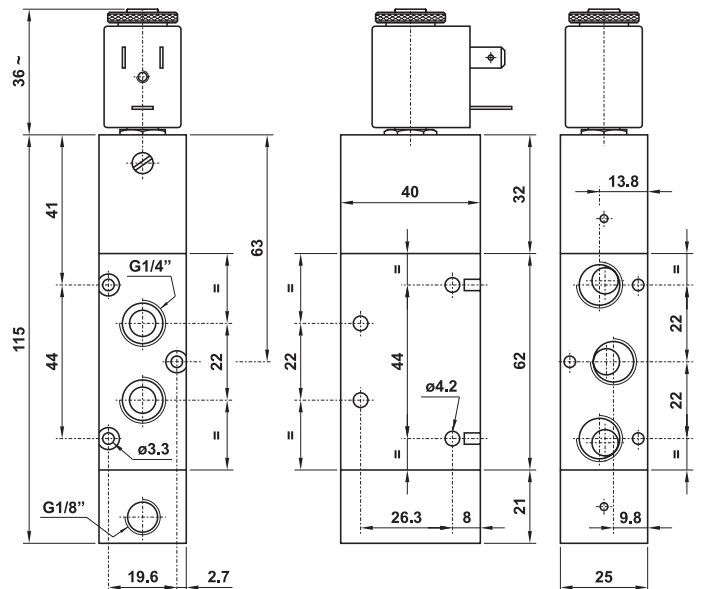
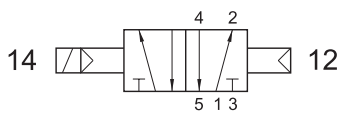
5/2 1/4" solenoid pilot - spring return



## 522 CE

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

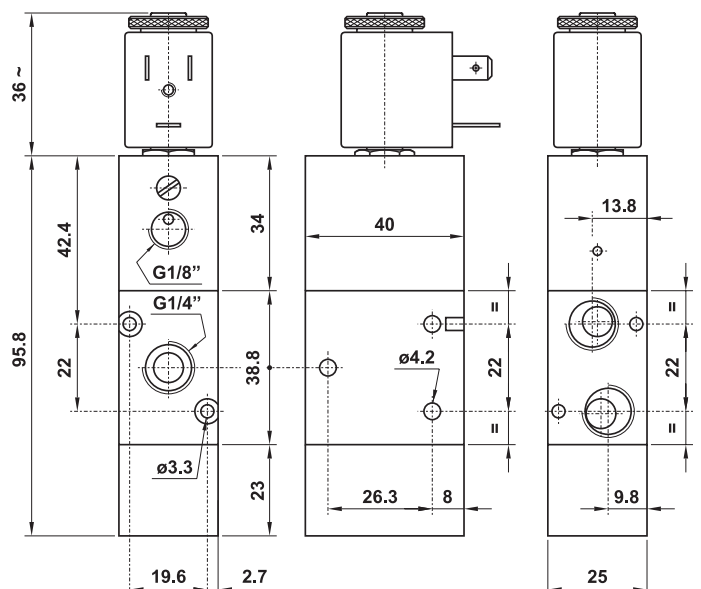
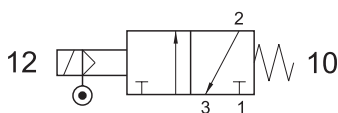
5/2 1/4" solenoid pilot - separate pneumatically piloted return



## 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



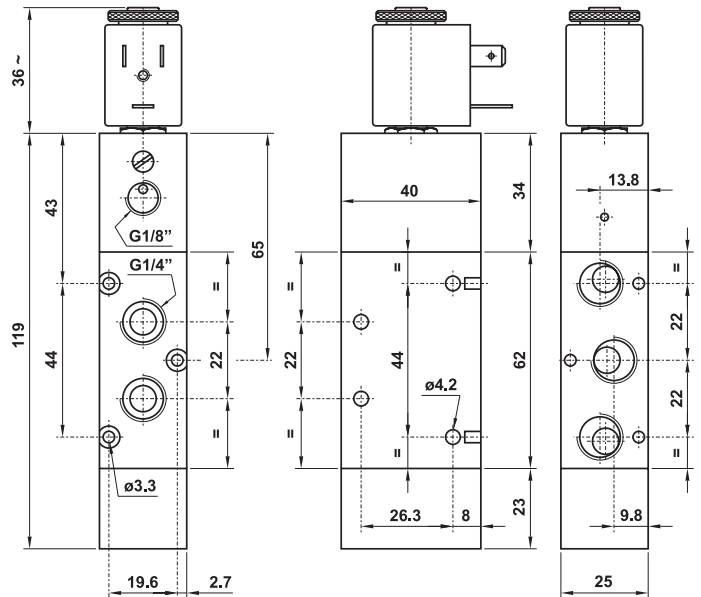
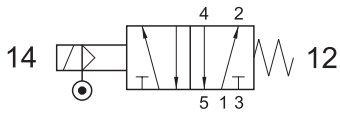
# valvole ad azionamento elettropneumatico

*solenoid actuated valves*



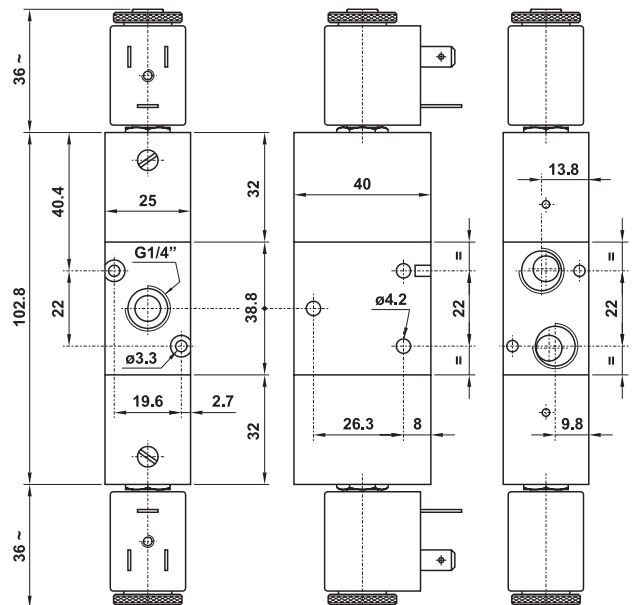
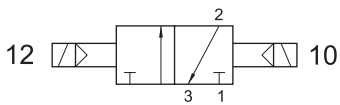
## 522 ME AS

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



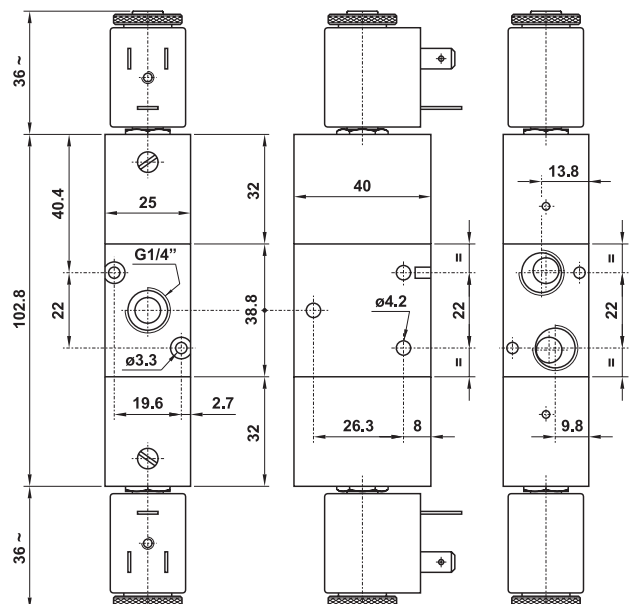
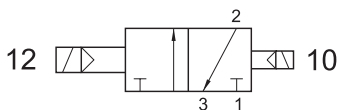
## 322 EE

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

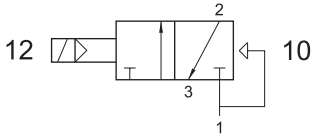
*solenoid actuated valves*



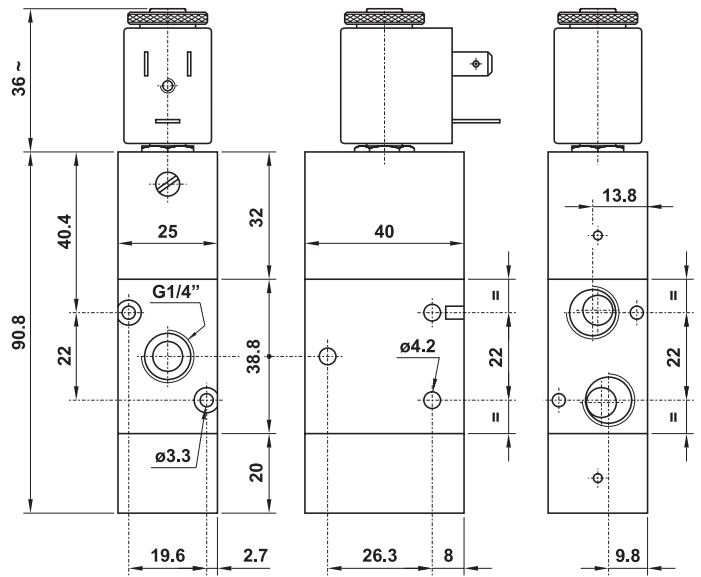
## 322 EFP

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

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



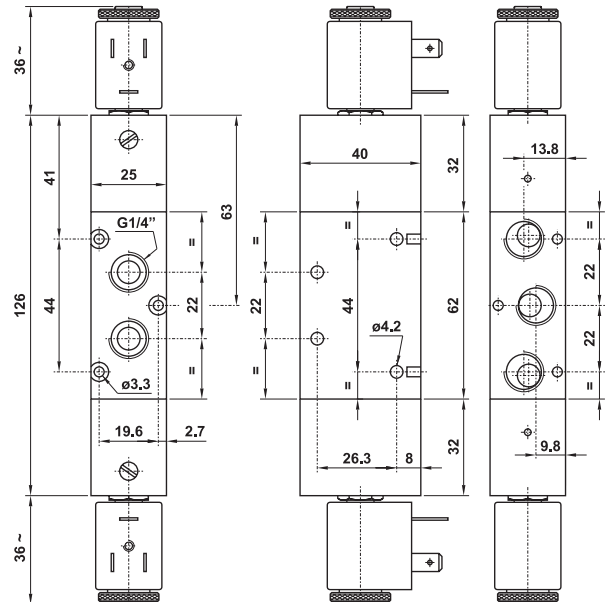
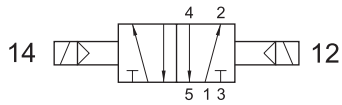
Non può essere utilizzata come valvola normalmente aperta.  
It cannot be used as normally open valve.



## 522 EE

5/2 1/4" doppio comando elettrico

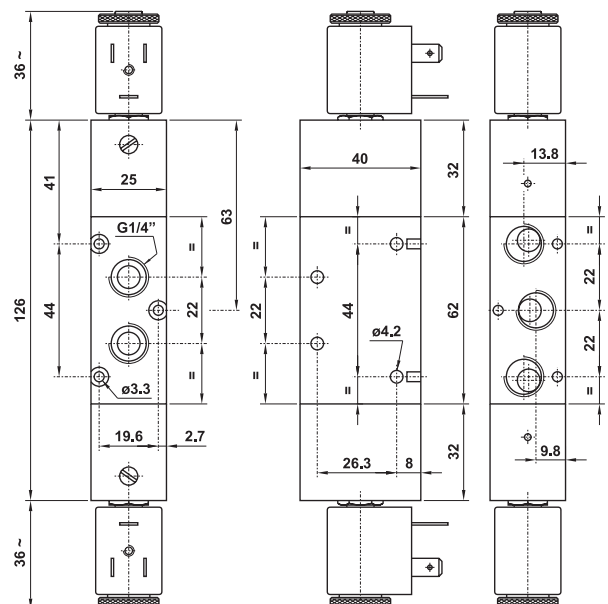
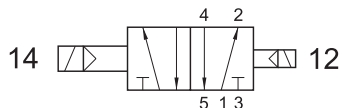
5/2 1/4" double solenoid pilot



## 522 EED

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

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



# valvole ad azionamento elettropneumatico

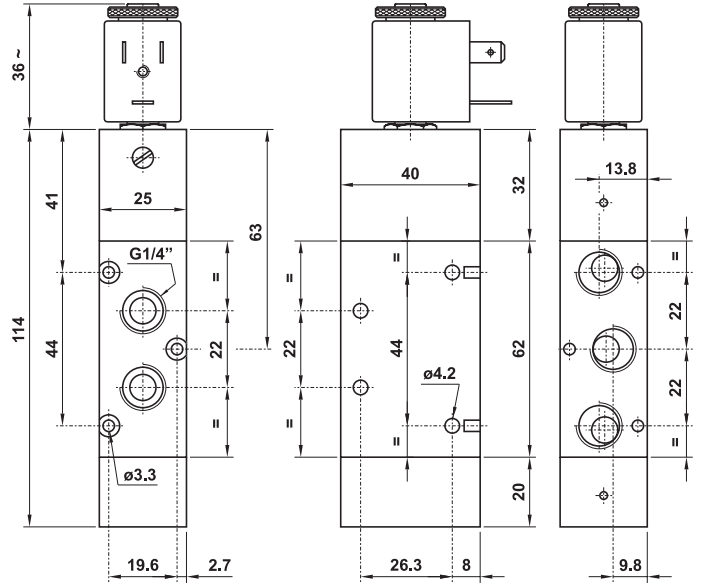
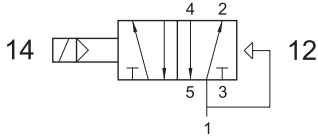
*solenoid actuated valves*



## 522 EFP

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

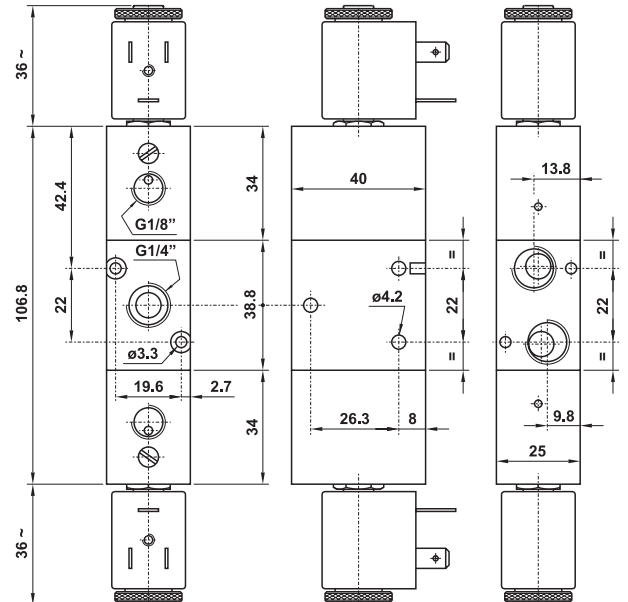
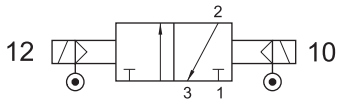
5/2 1/4" solenoid pilot - pneumatic spring return



## 322 EE AS

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

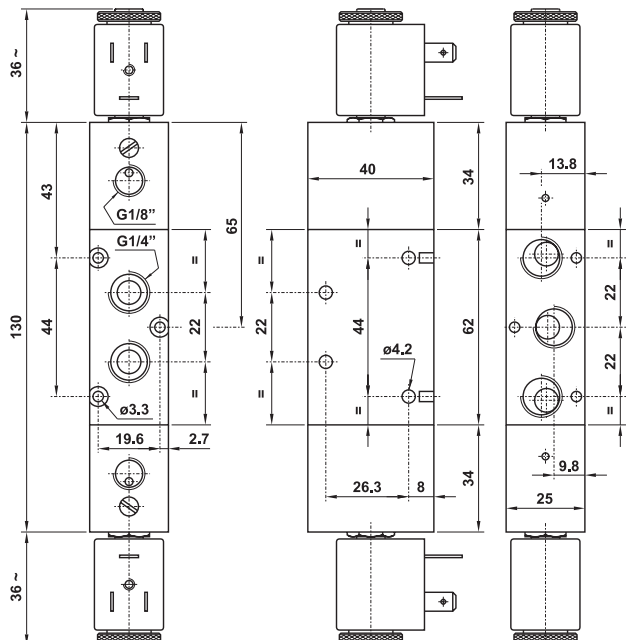
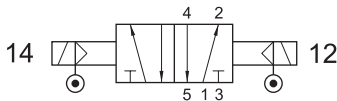
3/2 1/4" double solenoid pilot with separate air supply



## 522 EE AS

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

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



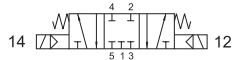
# valvole ad azionamento elettropneumatico

*solenoid actuated valves*



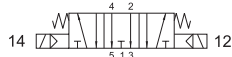
**5223C EE**

centri chiusi  
*closed centres*



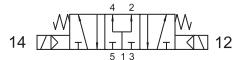
**5223A EE**

centri aperti  
*open centres*



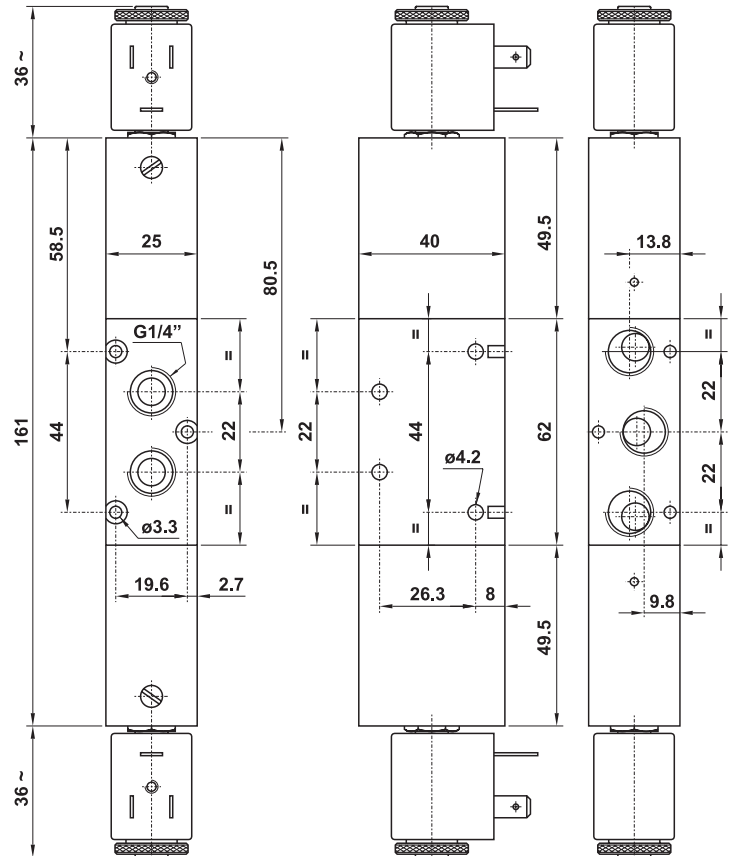
**5223P EE**

centri in pressione  
*pressurized centres*



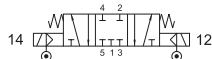
5/3 1/4" doppio comando elettrico

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



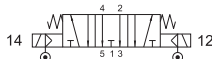
**5223C EE AS**

centri chiusi  
*closed centres*



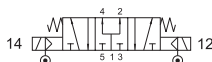
**5223A EE AS**

centri aperti  
*open centres*



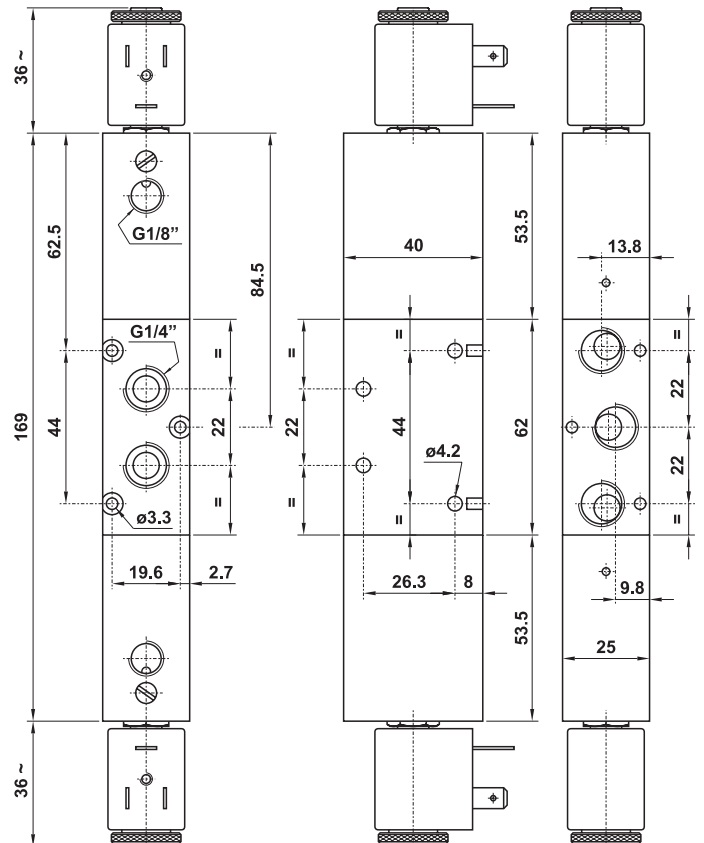
**5223P EE AS**

centri in pressione  
*pressurized centres*



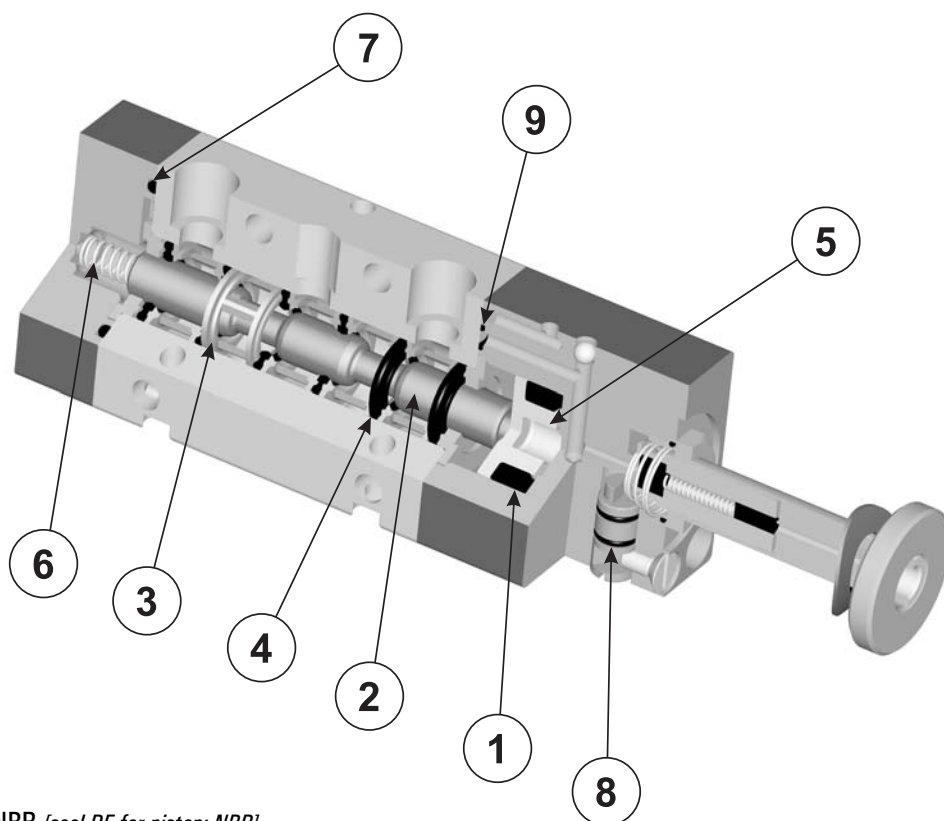
5/3 1/4" doppio comando elettrico alimentazione separata

*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



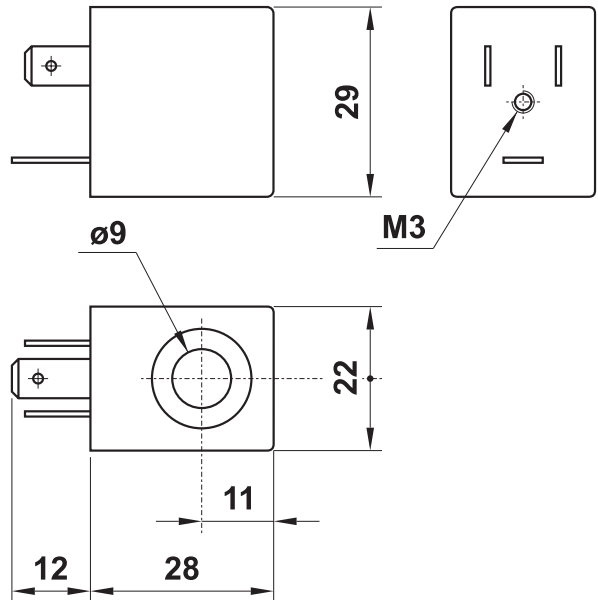
22 mm



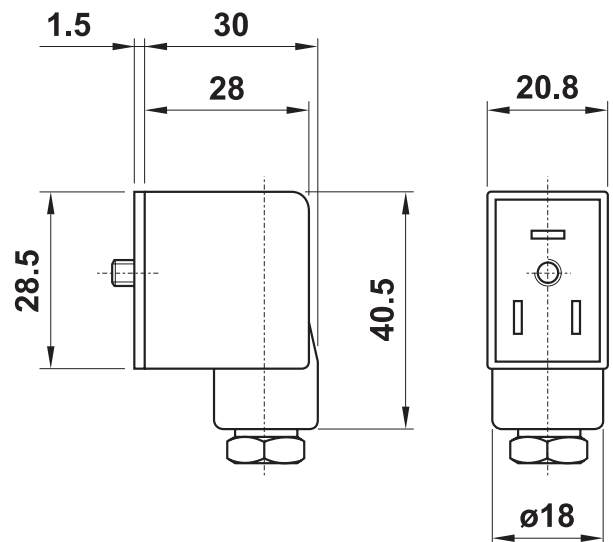
temperatura max di esercizio	<b>+50°C</b>	<i>max working temperature</i>
inserimento	<b>ED 100%</b>	<i>duty cycle</i>
protezione con connettore correttamente montato	<b>IP 65</b>	<i>protection with connector correctly mounted</i>
tolleranza di tensione	<b>±10%</b>	<i>tension tolerance</i>

- 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*

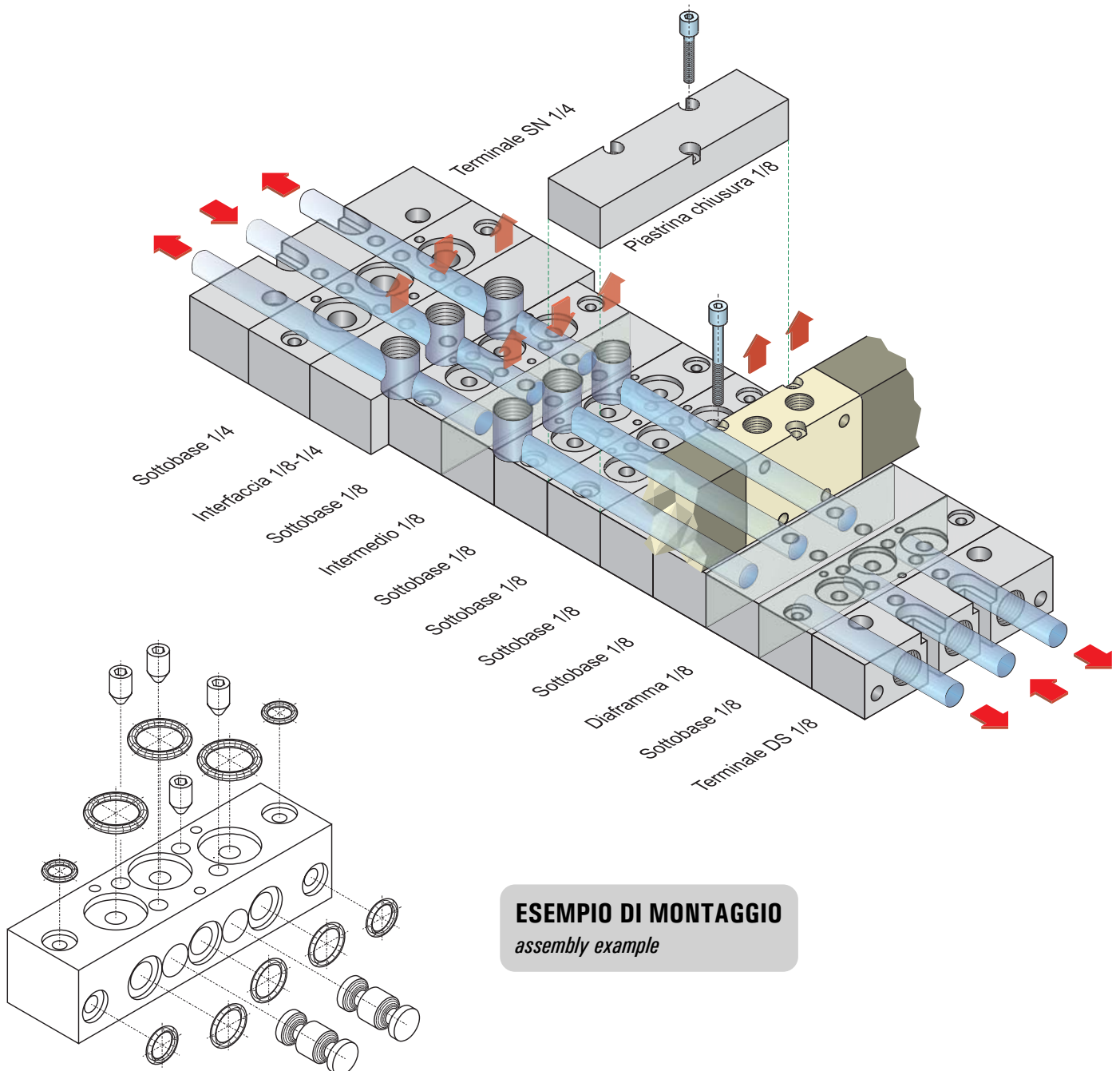
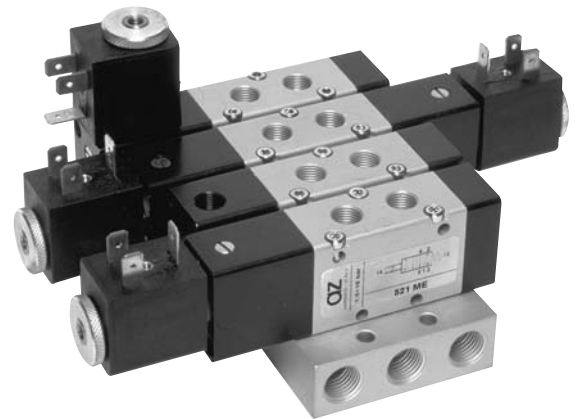
**NC : 00.088.0**  
**NA (NO) : 00.306.0**

# sottobasi per valvole a spola

manifolds for spool valves



- Sottobasi modulari per valvole a spola 1/8" e 1/4"  
*Multiple sub-bases for 1/8" and 1/4" spool valves*
- Sottobasi a posti fissi per valvole a spola 1/8" e 1/4"  
*Manifolds for 1/8" and 1/4" spool valves*
- Sottobasi speciali a richiesta  
*Special manifolds on request*
- Materiale: alluminio anodizzato  
*Material: aluminium (anodize treatment)*



# sottobasi modulari per valvole a spola

multiple sub-bases for spool valves



## sottobase sub-base



Le sottobasi possono essere utilizzate per il fissaggio di valvole da 1/8" o da 1/4". Ogni sottobase è venduta con i particolari necessari per il fissaggio e il montaggio della valvola.

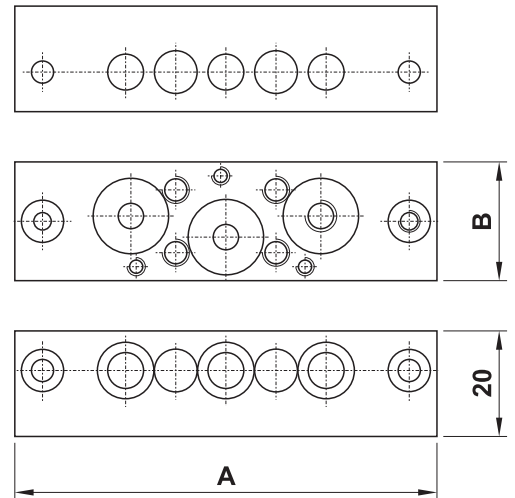
Each sub-base is sold with all necessary components to install 1/8" or 1/4" valves.

### CODICI DI ORDINAZIONE - ORDER CODES

00.021.3 per valvole 1/8" - for 1/8" valves

01.032.4 per valvole 1/4" - for 1/4" valves

	1/8"	1/4"
A	80	95
B	22.5	26



## terminale inlet header



Per ogni batteria di valvole è necessario l'utilizzo di due terminali, uno destro e uno sinistro. Ogni terminale è venduto con i particolari necessari al suo assemblaggio.

Each manifold assembly requires a right and a left hand inlet header kit.

Each inlet header is sold with all necessary components.

### CODICI DI ORDINAZIONE - ORDER CODES

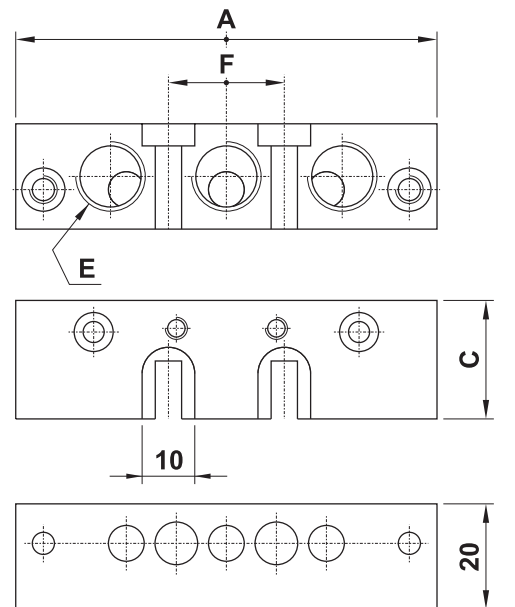
00.024.3 terminale destro per sottobasi 1/8"  
right hand header for 1/8" manifolds

00.023.3 terminale sinistro per sottobasi 1/8"  
left hand header for 1/8" manifolds

01.045.4 terminale destro per sottobasi 1/4"  
right hand header for 1/4" manifolds

01.033.4 terminale sinistro per sottobasi 1/4"  
left hand header for 1/4" manifolds

	1/8"	1/4"
A	80	95
C	22.5	25
E	G1/4"	G3/8"
F	22	26.5



## piastrina di chiusura blanking plate

	1/8" 00.011.3	1/8" 00.078.2	1/4" 01.007.3	1/4" 01.078.2
A	80	60	95	70
D	22	22	25	25

Venduta completa di viti, chiude i fori di sottobasi eventualmente non utilizzate.

The blanking plate with gasket and screws is available to close manifold stations not in use.

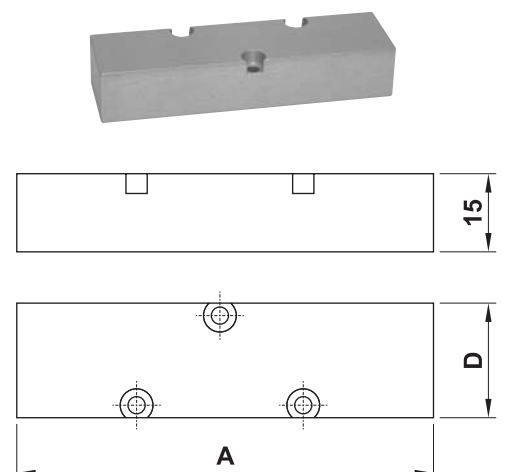
### CODICI DI ORDINAZIONE - ORDER CODES

00.011.3 per sottobasi modulari 1/8" - for 1/8" multiple sub-bases

00.078.2 per sottobasi a posti fissi 1/8" - for 1/8" manifolds

01.007.3 per sottobasi modulari 1/4" - for 1/4" multiple sub-bases

01.078.2 per sottobasi a posti fissi 1/4" - for 1/4" manifolds



# sottobasi modulari per valvole a spola

multiple sub-bases for spool valves



## diaframma blanking piece



Il diaframma (cieco) è utilizzabile per dividere una batteria di valvole in parti alimentabili a pressioni distinte. È venduto con i pezzi necessari al suo assemblaggio.

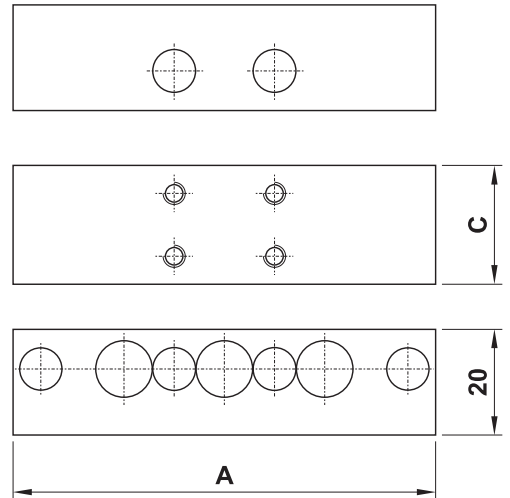
*A blanking piece with gaskets is available to divide the manifold into separate zones.*

### CODICI DI ORDINAZIONE - ORDER CODES

**00.044.4** per batterie di valvole 1/8" - for 1/8" manifolds

**01.048.4** per batterie di valvole 1/4" - for 1/4" manifolds

	1/8"	1/4"
<b>A</b>	80	95
<b>C</b>	22.5	25



## intermedio intermediate header



L'intermedio è utilizzabile per dividere una batteria di valvole in due parti e immettere l'aria per l'alimentazione di una delle due attraverso le connessioni di cui è dotato. È venduto con i pezzi necessari al suo assemblaggio.

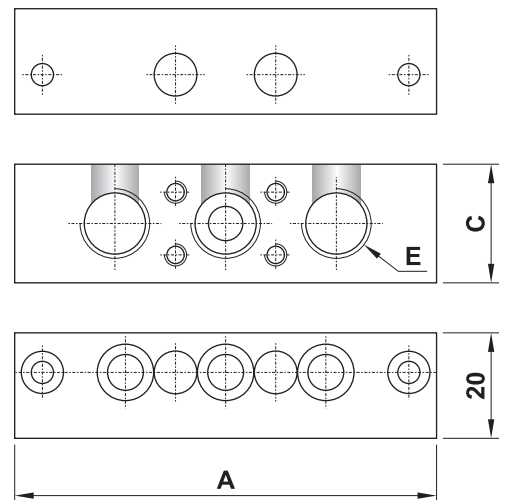
*An intermediate header with separate air supply is available to be installed in a manifold system which requires mixed operating pressures.*

### CODICI DI ORDINAZIONE - ORDER CODES

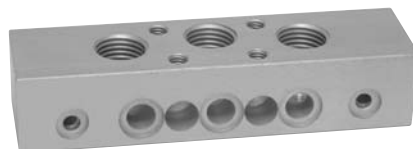
**00.049.4** per batterie di valvole 1/8" - for 1/8" manifolds

**01.047.4** per batterie di valvole 1/4" - for 1/8" manifolds

	1/8"	1/4"
<b>A</b>	80	95
<b>C</b>	22.5	25
<b>E</b>	G1/4"	G3/8"



## interfaccia interface

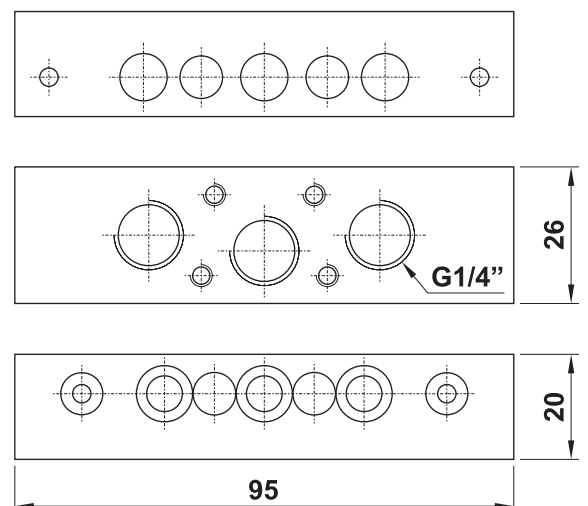


L'interfaccia è utilizzabile per collegare una batteria di valvole 1/8" a una batteria di valvole 1/4". È venduta con i pezzi necessari al suo assemblaggio.

*An interface with all necessary components is available to connect a manifold of 1/8" ports to a manifold of 1/4" ports.*

### CODICE DI ORDINAZIONE - ORDER CODE

**00.045.4** interfaccia - interface



# sottobasi a posti fissi per valvole a spola

manifolds for spool valves



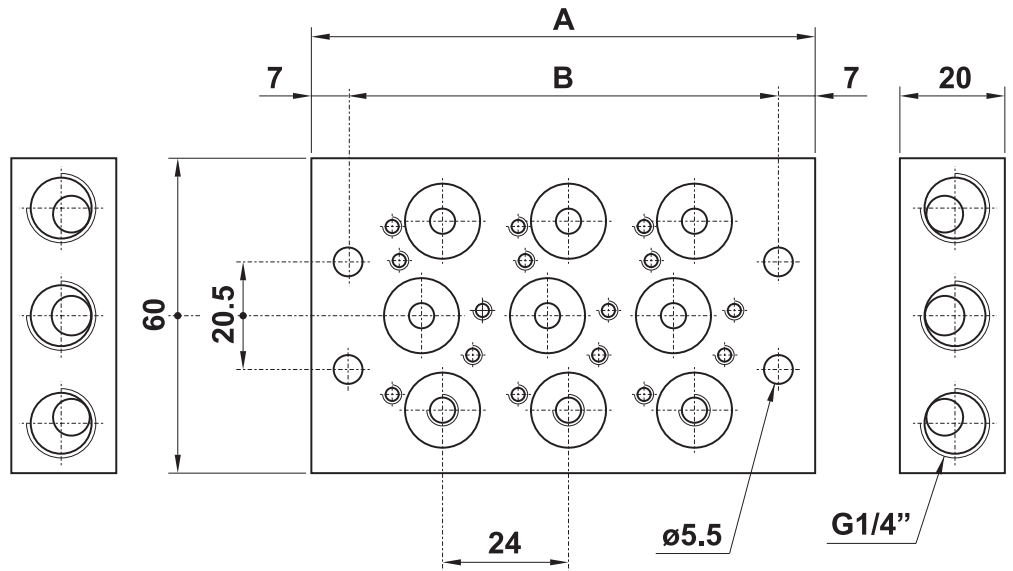
Le sottobasi a posti fissi possono essere utilizzate per il fissaggio di valvole a 3 vie e a 5 vie, da 1/8" o da 1/4". Ogni sottobase è venduta con i particolari necessari per il fissaggio e il montaggio delle valvole. Eventuali posizioni non utilizzate possono essere tappate con la piastrina di chiusura.

These manifolds can be used for the installation of three and five way valves, 1/8" or 1/4". Each manifold is sold with all necessary pieces for installation. Unused stations can be closed with a blanking plate.



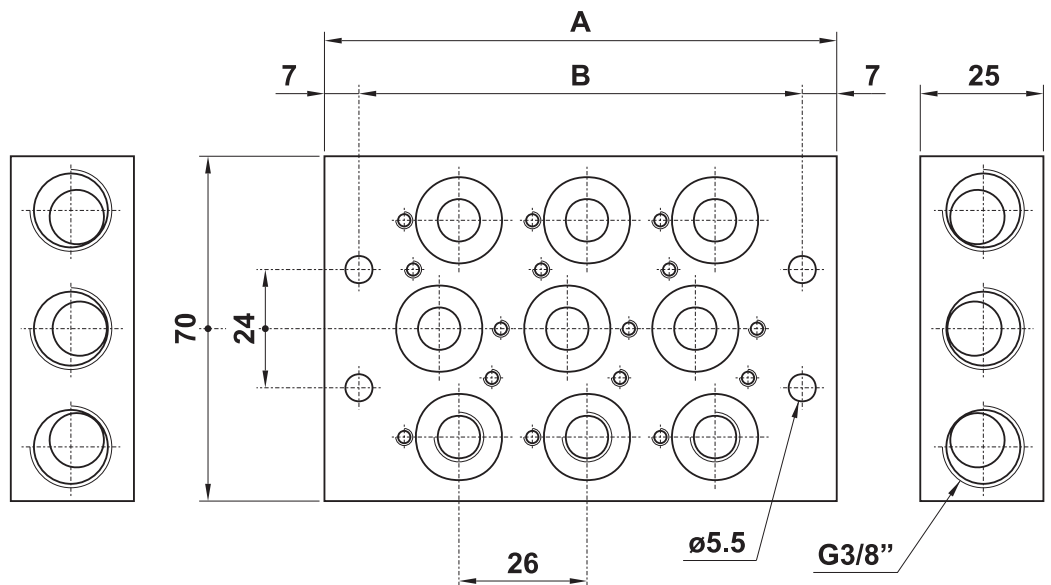
## 1/8"

modello model	nr. posiz. no. stations	A	B
00.052.2	2	72	58
00.053.2	3	96	82
00.054.2	4	120	106
00.055.2	5	144	130
00.056.2	6	168	154
00.057.2	7	192	178
00.058.2	8	216	202
00.059.2	9	240	226
00.060.2	10	264	250



## 1/4"

modello model	nr. posiz. no. stations	A	B
01.042.2	2	78	64
01.043.2	3	104	90
01.044.2	4	130	116
01.045.2	5	156	142
01.046.2	6	182	168
01.047.2	7	208	194
01.048.2	8	234	220



# accessori per basi a posti fissi

accessories for manifolds



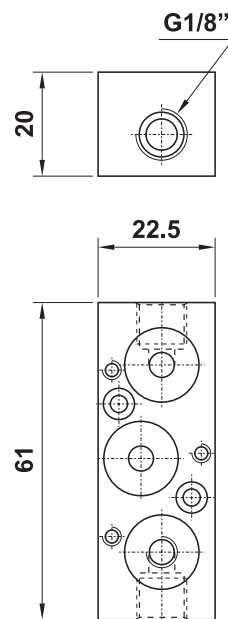
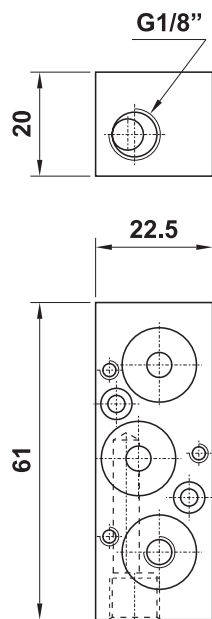
**adattatore per entrata separata**  
*adapting plate for separate air inlet*

**adattatore per scarichi separati**  
*adapting plate for separate air exhaust*

G1/8"

00.064.2

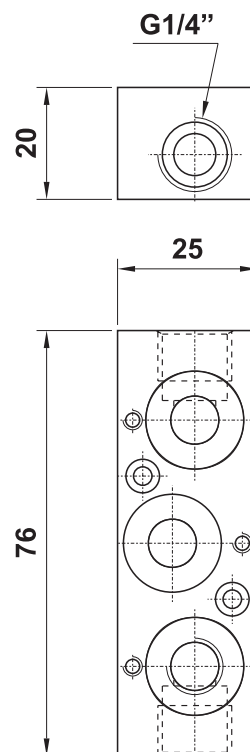
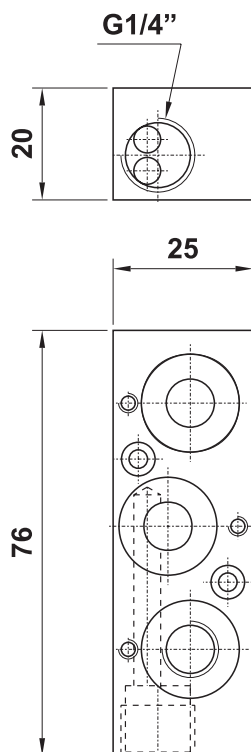
00.080.2



G1/4"

01.049.2

01.050.2

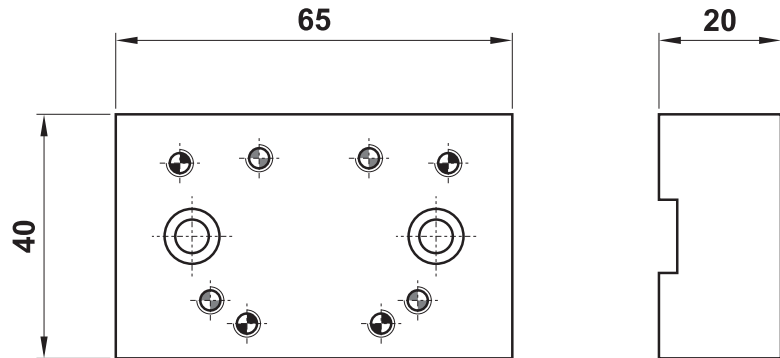


Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio.  
*Each element is sold in kit with all necessary pieces for installation.*

## adattatore per cilindro ISO 6431 interface for cylinder ISO 6431

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**00.095.2**



 Fori per il fissaggio di valvole 521  
Mounting holes for valves 521

 Fori per il fissaggio di valvole 522  
Mounting holes for valves 522

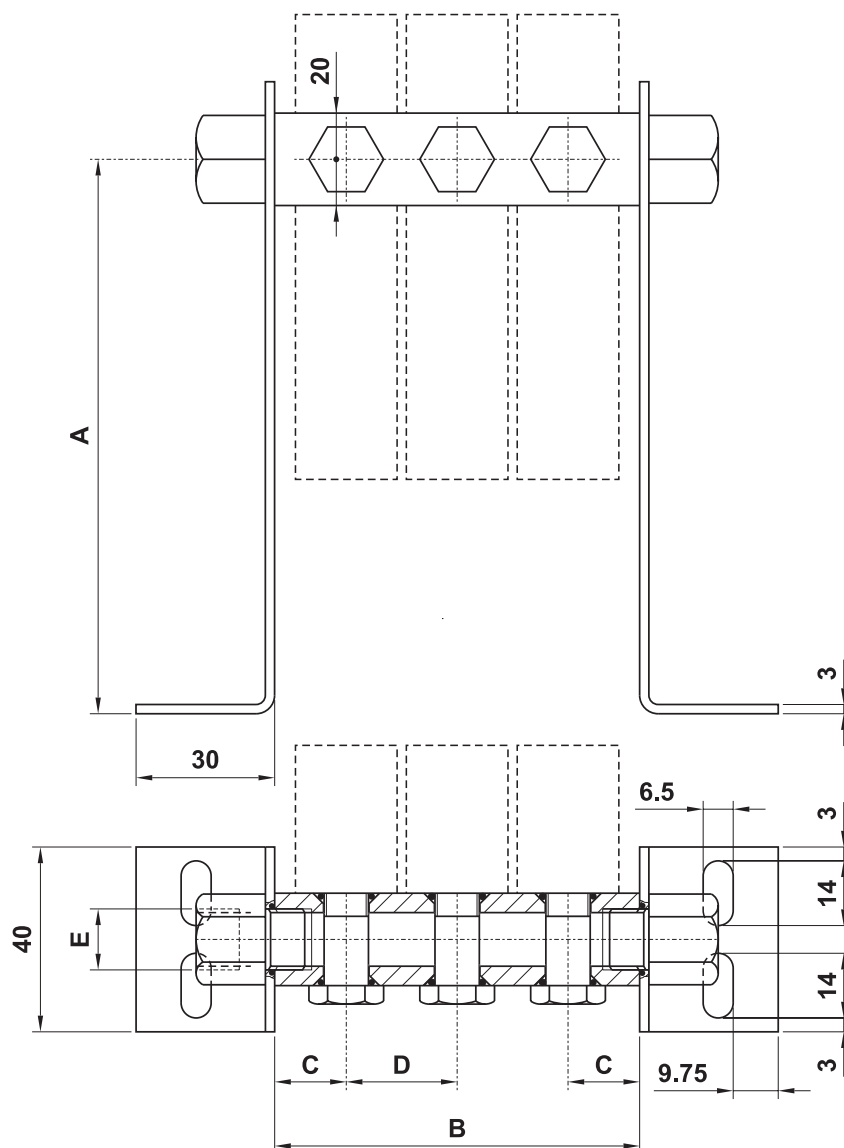
È utilizzabile per l'installazione di una valvola della serie 521 o 522 su un cilindro ISO 6431 dall'alesaggio 32 all'alesaggio 100.  
Ogni pezzo è venduto con tutti i particolari necessari al suo assemblaggio.

*It can be used to install a valve 521 or 522 on a cylinder ISO 6431 from bore 32 to bore 100.  
It is sold with all necessary pieces for installation.*

Per l'installazione sul cilindro è necessario innanzi tutto smontare una delle due testate.  
*For the installation on the cylinder it is necessary to remove one end cap.*

# collettori per valvole a spola

gang manifolds for spool valves



		1/8"		1/4"	
		modello model	A	modello model	A
		00.029.2	120	01.029.2	120
		00.067.2	60	01.038.2	60

		modello model	nr. posizioni no. stations	B	C	D	E
1/8"		00.042.3	2	55	15.5	24	G1/4"
		00.043.3	3	79	15.5	24	G1/4"
		00.044.3	4	103	15.5	24	G1/4"
		00.045.3	5	127	15.5	24	G1/4"
		00.046.3	6	151	15.5	24	G1/4"
1/4"		01.032.3	2	62	17.5	27	G3/8"
		01.033.3	3	89	17.5	27	G3/8"
		01.034.3	4	116	17.5	27	G3/8"
		01.035.3	5	143	17.5	27	G3/8"
		01.036.3	6	170	17.5	27	G3/8"

# valvole G1/2" azionamento pneumatico

*pneumatically piloted valves - G1/2"*



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/2"  
*3/2-5/2-5/3 spool valves with G1/2" threaded ports*
- Elevatissima portata  
*Very high flow rate*
- Montaggio in linea  
*Installation in-line*
- Azionamento pneumatico monostabile o bistabile  
*Mono-stable or bi-stable pneumatic pilot*
- Multifunzionalità e adattabilità  
*Multifunction feature*



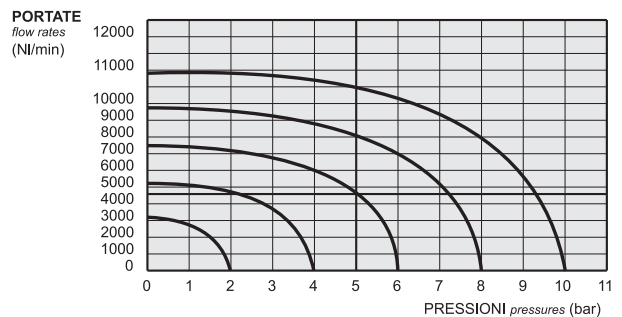
## Kit ricambi - spare parts

**02.030.2** : per valvole a 3 vie [for 3 way valves] ME - ME AS - MC

**02.031.2** : per valvole a 5 vie [for 5 way valves] ME - ME AS - MC

**02.032.2** : per valvole a 3 vie [for 3 way valves] EE - EE AS - CC

**02.033.2** : per valvole a 5 vie [for 5 way valves] EE - EE AS - CC



## Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 24 ms TRR (12): 43 ms
bistabile <i>bi-stable</i>	TRA (14): 30 ms TRR (12): 30 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>	13 mm	
Portata nominale a 6 bar, $\Delta p$ 1 bar <i>Nominal flow rate at 6 bar, <math>\Delta p</math> 1 bar</i>	4600 NI/min	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</i>	monostabile [mono-stable]	bistabile [bi-stable]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>	

# valvole G1/2" azionamento pneumatico

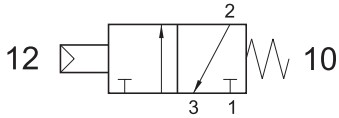
*pneumatically piloted valves - G1/2"*



## 324 MC

3/2 1/2" NC comando pneumatico - ritorno a molla

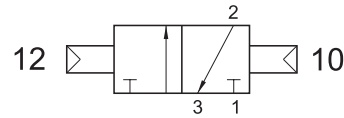
*3/2 1/2" NC pneumatic pilot - spring return*



## 324 CC

3/2 1/2" doppio comando pneumatico

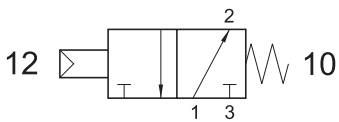
*3/2 1/2" double pneumatic pilot*



## 324 MCA

3/2 1/2" NA comando pneumatico - ritorno a molla

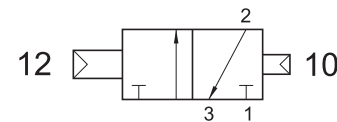
*3/2 1/2" NO pneumatic pilot - spring return*



## 324 CCD

3/2 1/2" doppio comando pneumatico - con differenziale

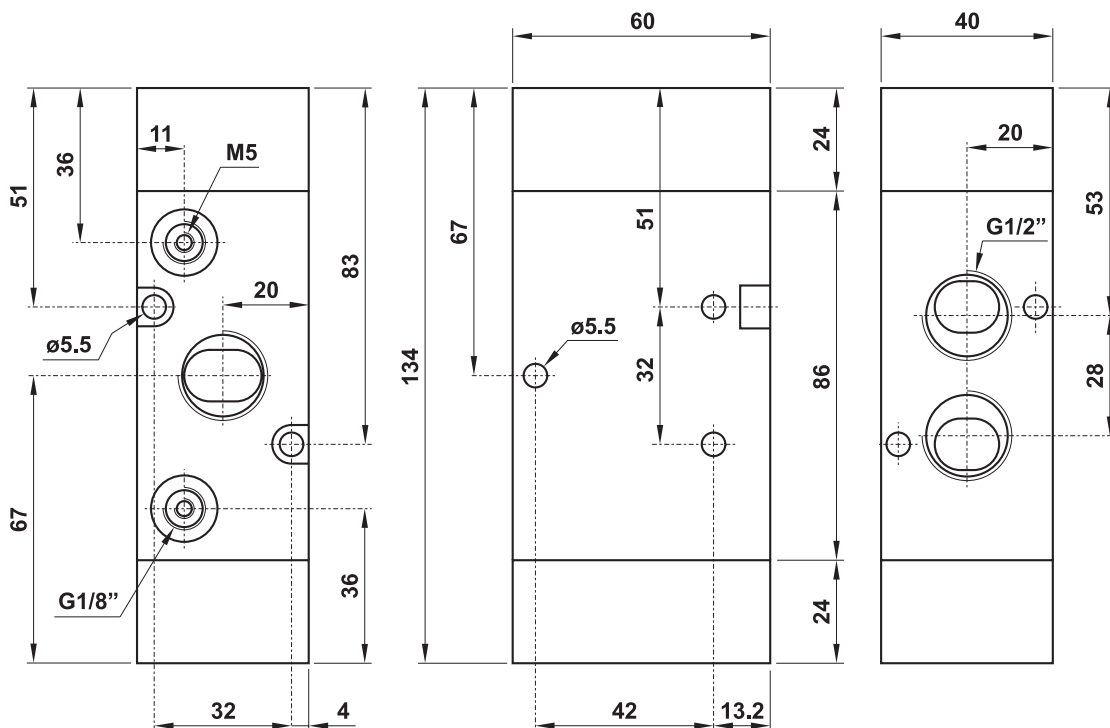
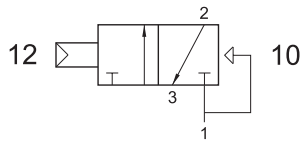
*3/2 1/2" double pneumatic pilot - with differential*



## 324 CFP

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

*3/2 1/2" NC pneumatic pilot - pneumatic spring return*



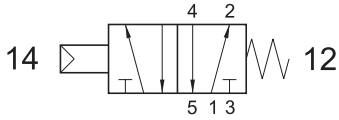
# valvole G1/2" azionamento pneumatico

*pneumatically piloted valves - G1/2"*



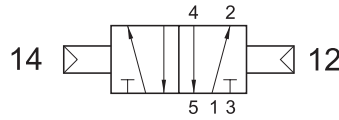
## 524 MC

5/2 1/2" comando pneumatico - ritorno a molla  
 5/2 1/2" *pneumatic pilot - spring return*



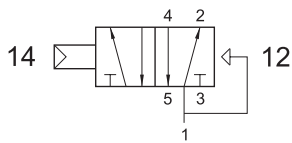
## 524 CC

5/2 1/2" doppio comando pneumatico  
 5/2 1/2" *double pneumatic pilot*



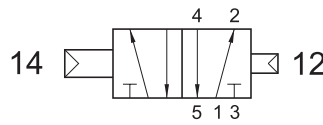
## 524 CFP

5/2 1/2" comando pneumatico - ritorno a molla pneumatica  
 5/2 1/2" *pneumatic pilot - pneumatic spring return*



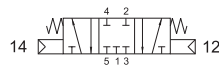
## 524 CCD

5/2 1/2" doppio comando pneumatico - con differenziale  
 5/2 1/2" *double pneumatic pilot - with differential*



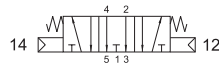
## 5243C CC

centri chiusi  
*closed centres*



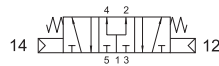
## 5243A CC

centri aperti  
*open centres*

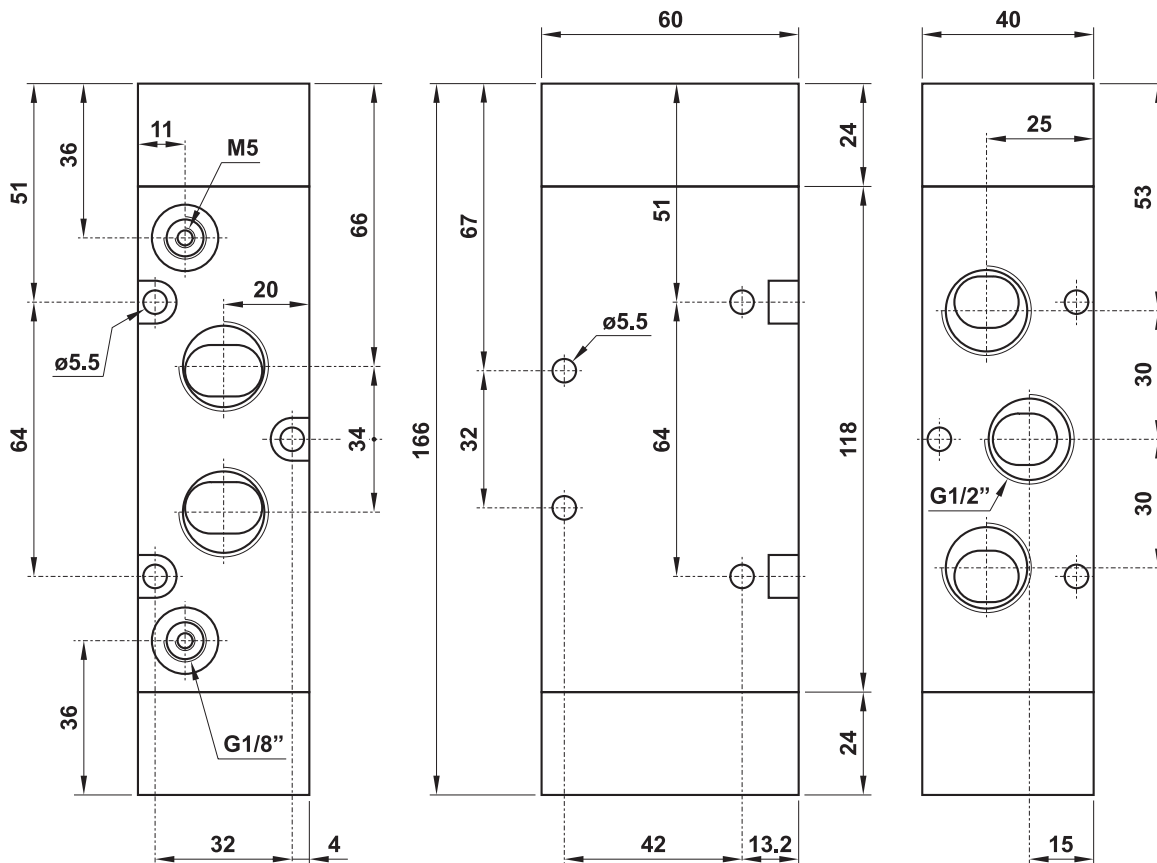


## 5243P CC

centri in pressione  
*pressurized centres*



5/3 1/2" doppio comando pneumatico  
 5/3 1/2" *double pneumatic pilot*



# valvole G1/2" azionamento pneumatico

pneumatically piloted valves - G1/2"



## Multifunzionalità e adattabilità della valvola

La funzione della valvola può essere variata in ogni momento secondo necessità cambiando la posizione dei tappi da M5 e G1/8" collocati nel corpo secondo gli schemi sottoriportati.

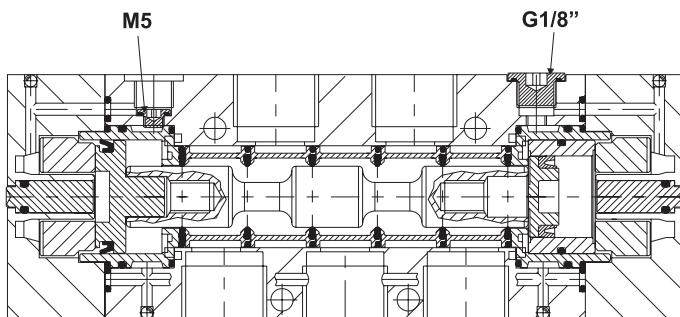
La valvola è fornita nella configurazione richiesta al momento dell'ordine. Eventuali tappi aggiuntivi possono essere ordinati separatamente.

## Multifunction feature of the valve

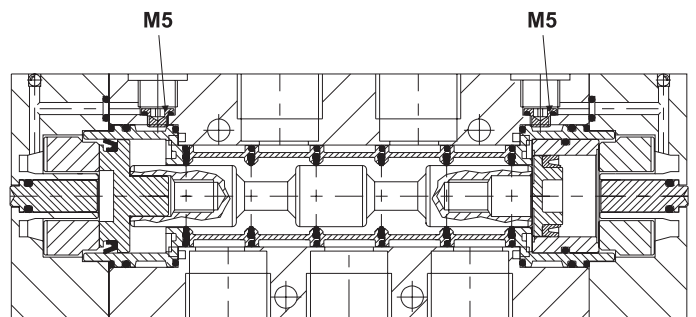
The function of the valve can be changed in any moment. To do this it is enough to change the position of the plugs M5 and G1/8", which are inserted into the body according to the scheme.

The valve is supplied in the configuration specified on the order. More plugs can be ordered separately.

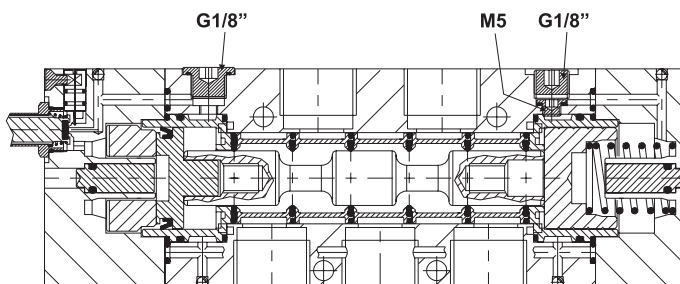
**324 CFP**  
**524 CFP**



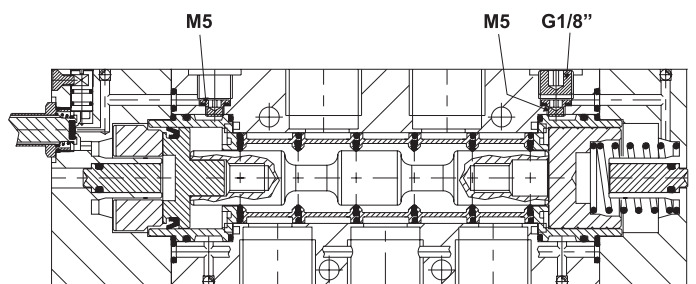
**324 CCD**  
**524 CCD**



**324 ME**  
**524 ME**

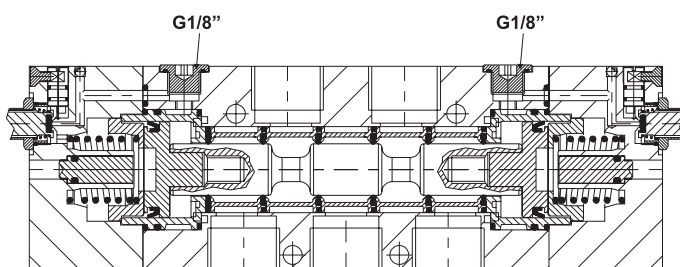


**324 ME AS**  
**524 ME AS**



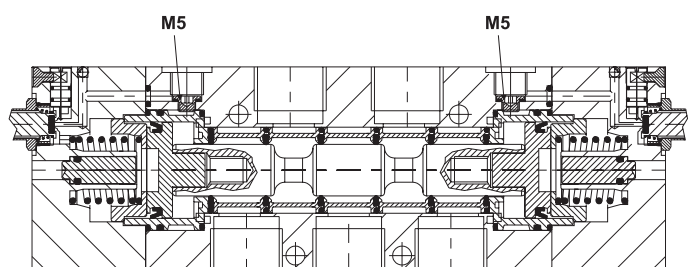
**324 EE**  
**524 EE**

**5243C EE**  
**5243A EE**  
**5243P EE**



**324 EE AS**  
**524 EE AS**

**5243C EE AS**  
**5243A EE AS**  
**5243P EE AS**

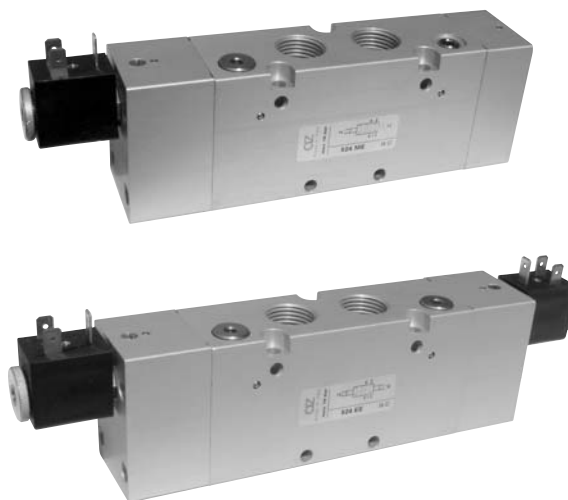


# valvole G1/2" azionamento elettropneumatico

*solenoid actuated valves - G1/2"*



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/2"  
*3/2-5/2-5/3 spool valves with G1/2" threaded ports*
- Elevatissima portata  
*Very high flow rate*
- Montaggio in linea  
*Installation in-line*
- Comandi elettrici con azionamento manuale bistabile  
*Solenoid pilots with detented manual override as standard*
- Multifunzionalità e adattabilità  
*Multifunction feature*



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 138).

*The following listed products are sold without coils, which are bought separately (refer to page 138).*

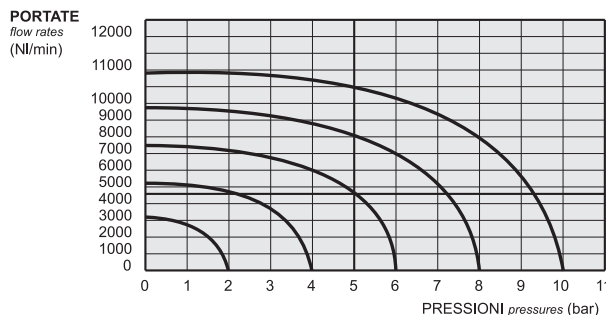
## Kit ricambi - spare parts

**02.030.2** : per valvole a 3 vie [for 3 way valves] ME - ME AS - MC

**02.031.2** : per valvole a 5 vie [for 5 way valves] ME - ME AS - MC

**02.032.2** : per valvole a 3 vie [for 3 way valves] EE - EE AS - CC

**02.033.2** : per valvole a 5 vie [for 5 way valves] EE - EE AS - CC



## Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 39 ms TRR (12): 60 ms
bistabile <i>bi-stable</i>	TRA (14): 90 ms TRR (12): 90 ms

## Materiali

**Corpo:** alluminio 11S

**Molle:** INOX

**Guarnizioni:** NBR

**Spola:** INOX

**Parti interne:** ottone OT58

## Materials

**Body:** aluminium 11S

**Springs:** stainless steel

**Seals:** NBR

**Spool:** stainless steel

**Internal parts:** brass OT58

Diametro nominale <i>Nominal orifice</i>		13 mm	
Portata nominale a 6 bar, $\Delta p$ 1 bar <i>Nominal flow rate at 6 bar, <math>\Delta p</math> 1 bar</i>		4600 NI/min	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Pressione di esercizio <i>Working pressure</i>	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	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 [mono-stable]		bistabile [bi-stable]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>		

# valvole G1/2" azionamento elettropneumatico

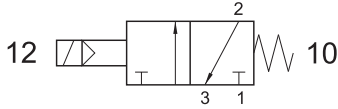
solenoid actuated valves - G1/2"



## 324 ME

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

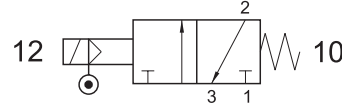
3/2 1/2" NC solenoid pilot - spring return



## 324 ME AS

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

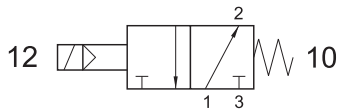
3/2 1/2" solenoid pilot with separate air supply - spring return



## 324 MEA

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

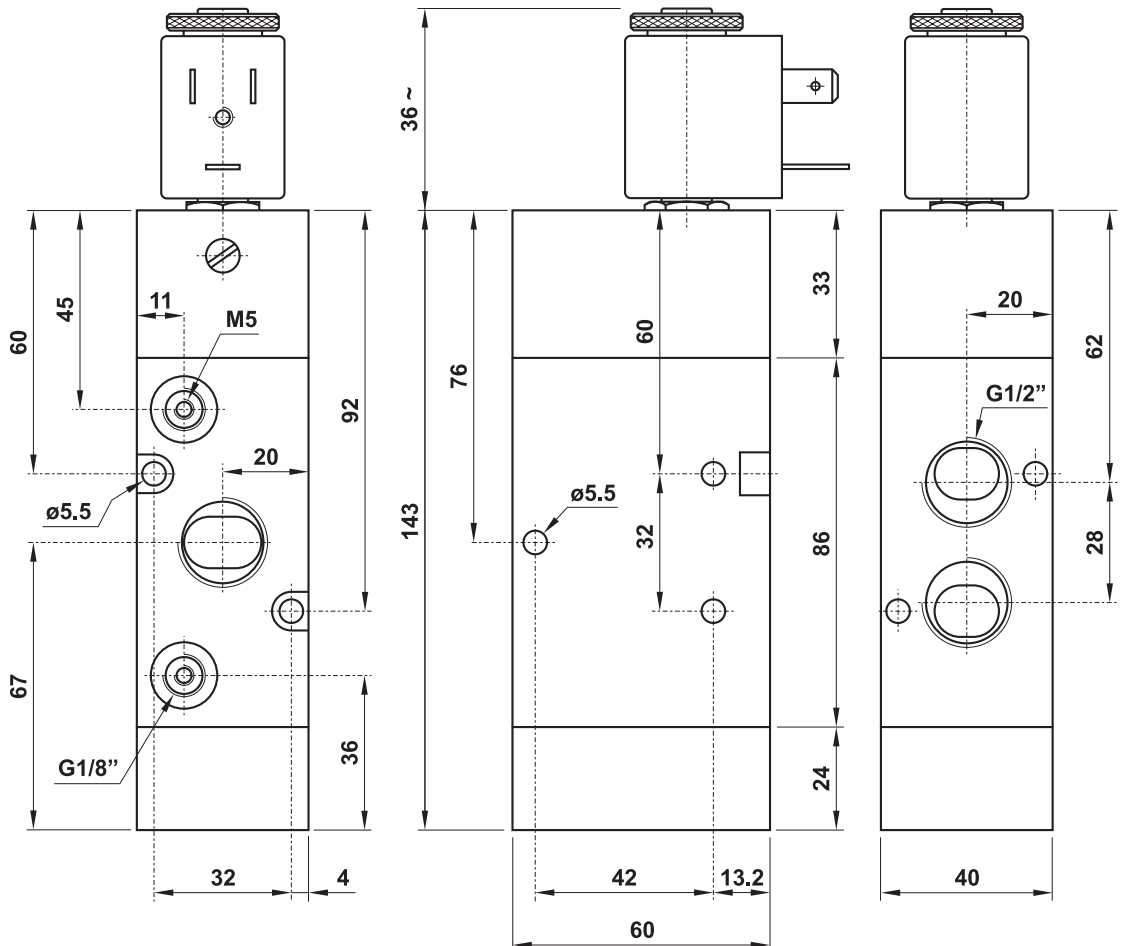
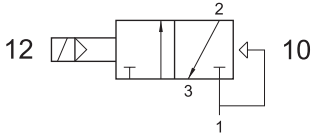
3/2 1/2" NO solenoid pilot - spring return



## 324 EFP

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

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



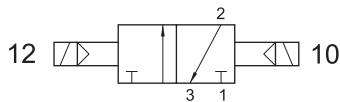
# valvole G1/2" azionamento elettropneumatico

*solenoid actuated valves - G1/2"*



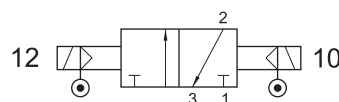
## 324 EE

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



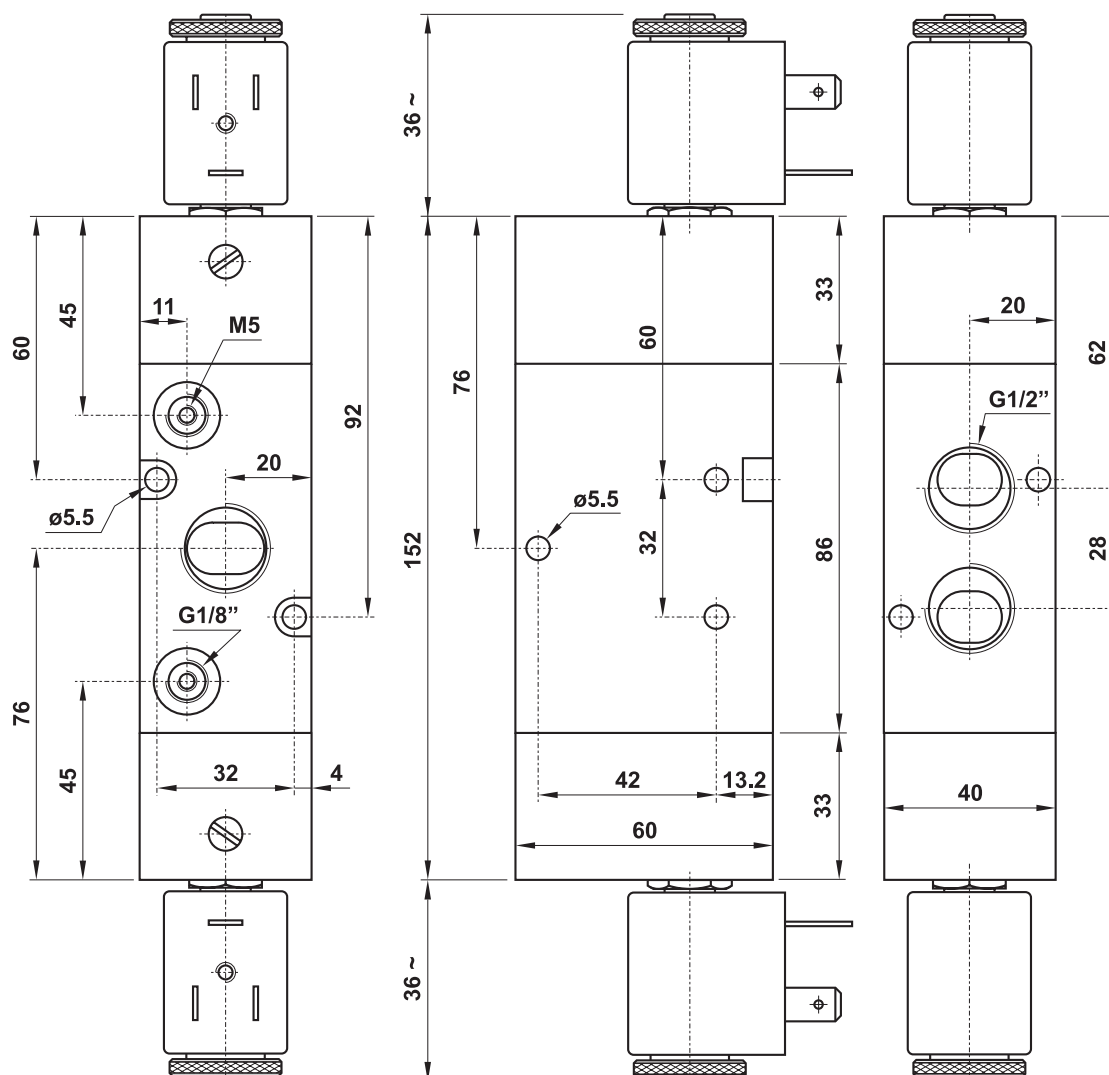
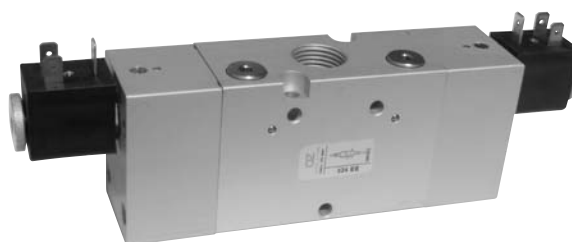
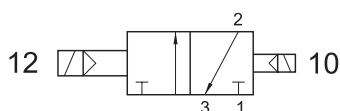
## 324 EE AS

3/2 1/2" doppio comando elettrico alimentazione separata  
*3/2 1/2" double solenoid pilot with separate air supply*



## 324 EED

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



# valvole G1/2" azionamento elettropneumatico

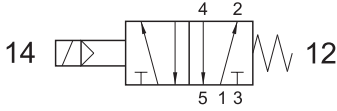
*solenoid actuated valves - G1/2"*



## 524 ME

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

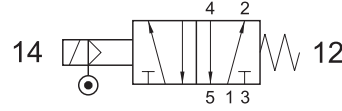
*5/2 1/2" solenoid pilot - spring return*



## 524 ME AS

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

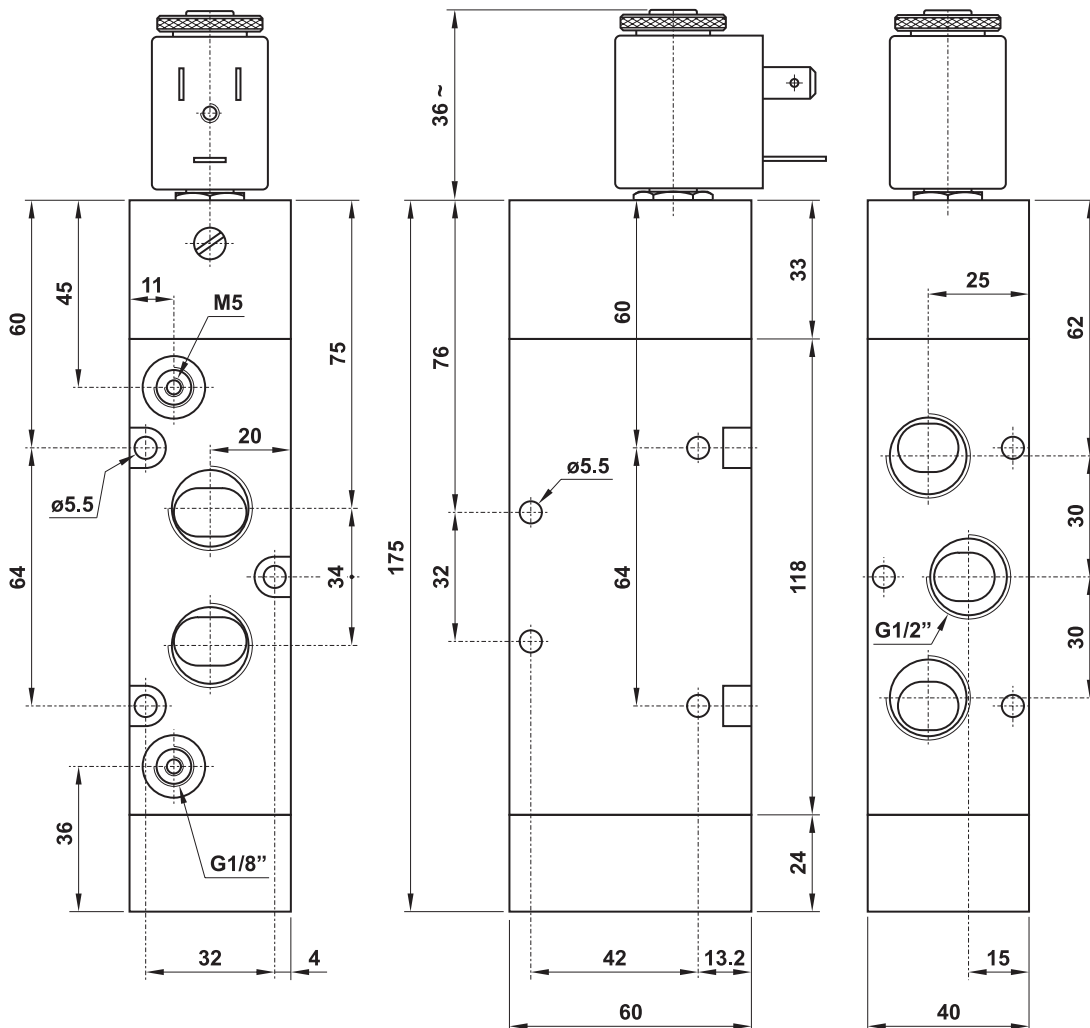
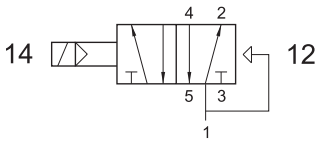
*5/2 1/2" solenoid pilot with separate air supply - spring return*



## 524 EFP

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

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



# valvole G1/2" azionamento elettropneumatico

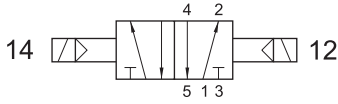
*solenoid actuated valves - G1/2"*



## 524 EE

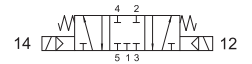
5/2 1/2" doppio comando elettrico

*5/2 1/2" double solenoid pilot*



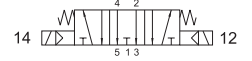
## 5243C EE

centri chiusi  
*closed centres*



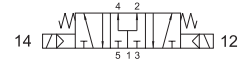
## 5243A EE

centri aperti  
*open centres*



## 5243P EE

centri in pressione  
*pressurized centres*



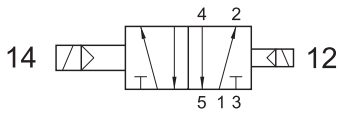
5/3 1/2" doppio comando elettrico

*5/3 1/2" double solenoid pilot*

## 524 EED

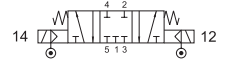
5/2 1/2" doppio comando elettrico - con differenziale

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



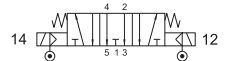
## 5243C EE AS

centri chiusi  
*closed centres*



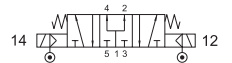
## 5243A EE AS

centri aperti  
*open centres*



## 5243P EE AS

centri in pressione  
*pressurized centres*



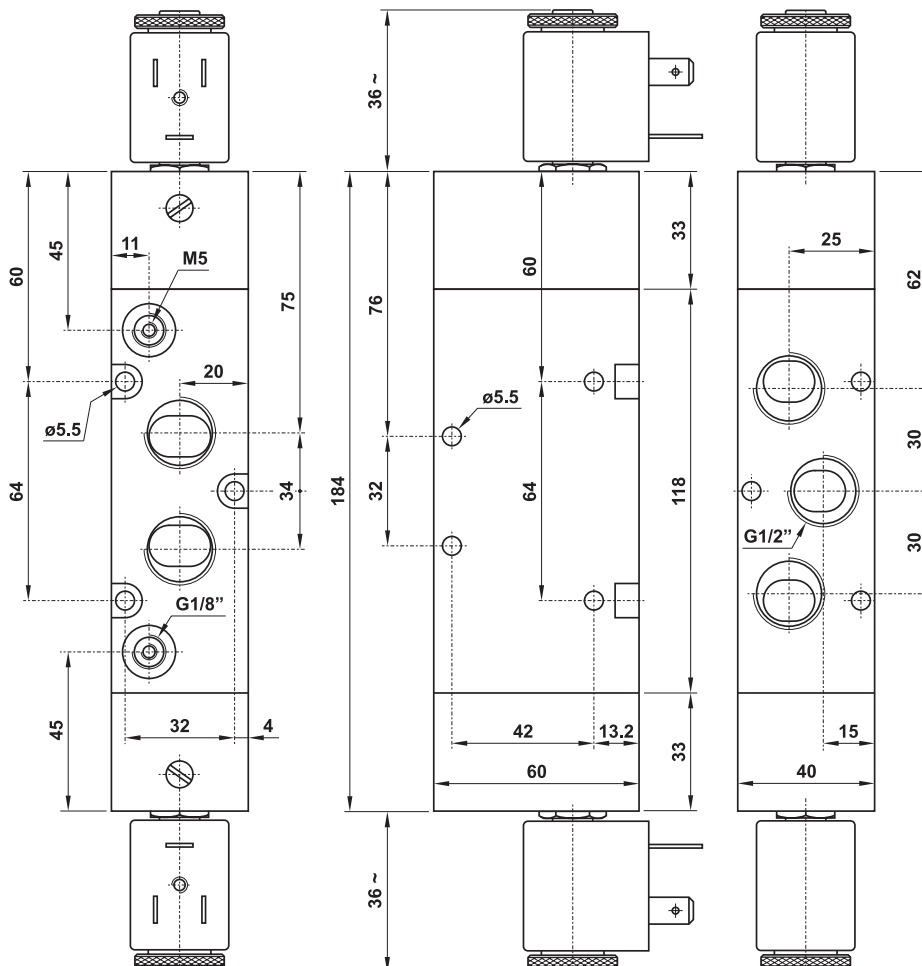
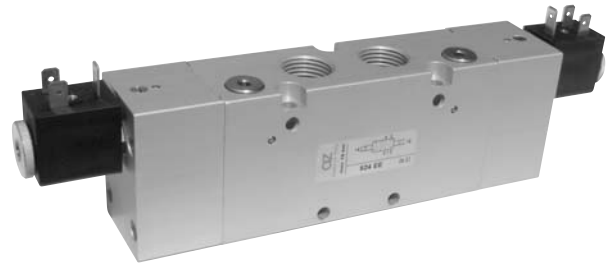
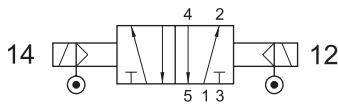
5/3 1/2" doppio comando elettrico alimentazione separata

*5/3 1/2" double solenoid pilot with separate air supply*

## 524 EE AS

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

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



# bobine e connettori 22 mm

22 mm coils and connectors



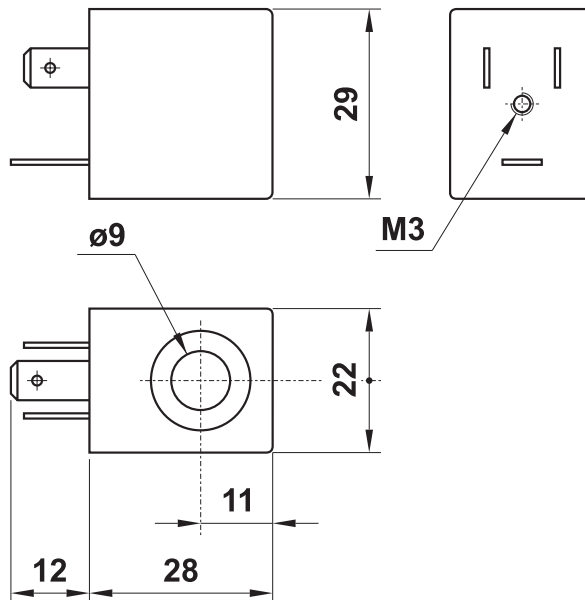
22 mm



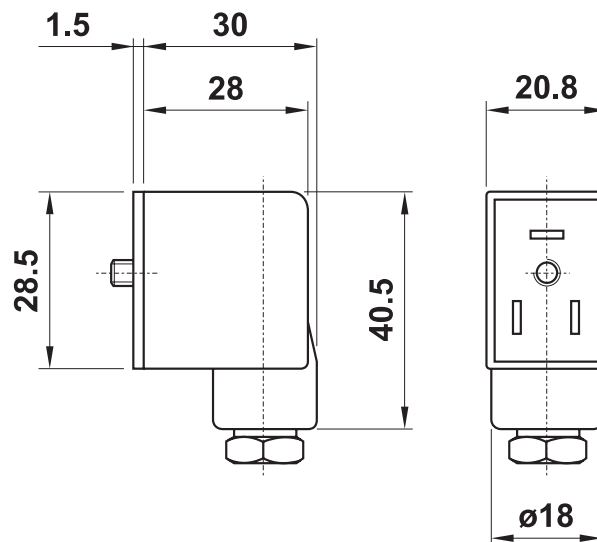
temperatura max di esercizio	<b>+50°C</b>	<i>max working temperature</i>
inserimento	<b>ED 100%</b>	<i>duty cycle</i>
protezione con connettore correttamente montato	<b>IP 65</b>	<i>protection with connector correctly mounted</i>
tolleranza di tensione	<b>±10%</b>	<i>tension tolerance</i>

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

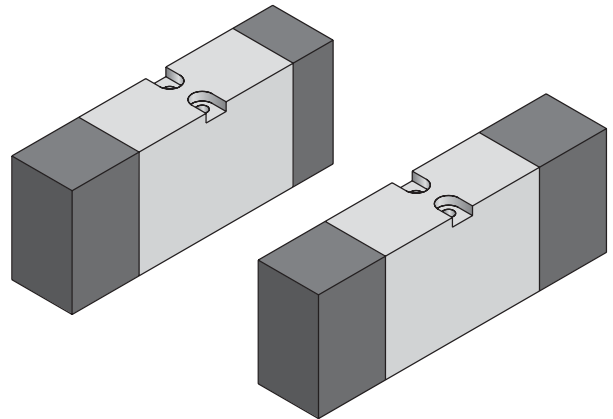
**NC : 00.088.0**  
**NA (NO) : 00.306.0**

# valvole VDMA 18 mm azionamento pneumatico

*pneumatically piloted valves - VDMA 18 mm*



- Valvole a spola 5/2-5/3  
*5/2-5/3 spool valves*
- A norma VDMA 24563 - taglia 02 (18 mm)  
*Compliant to norm VDMA 24563 - size 02 (18 mm)*
- Montaggio su basi modulari o a posti fissi  
*Installation on multiple sub-bases or manifolds*
- Azionamento pneumatico monostabile o bistabile  
*Mono-stable or bi-stable pneumatic pilot*



## Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 12 ms TRR (12): 24 ms
bistabile <i>bi-stable</i>	TRA (14): 21 ms TRR (12): 21 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>	5 mm	
Portata nominale a 6 bar, $\Delta p$ 1 bar <i>Nominal flow rate at 6 bar, <math>\Delta p</math> 1 bar</i>	550 NI/min	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</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 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>	

# valvole VDMA 18 mm azionamento pneumatico

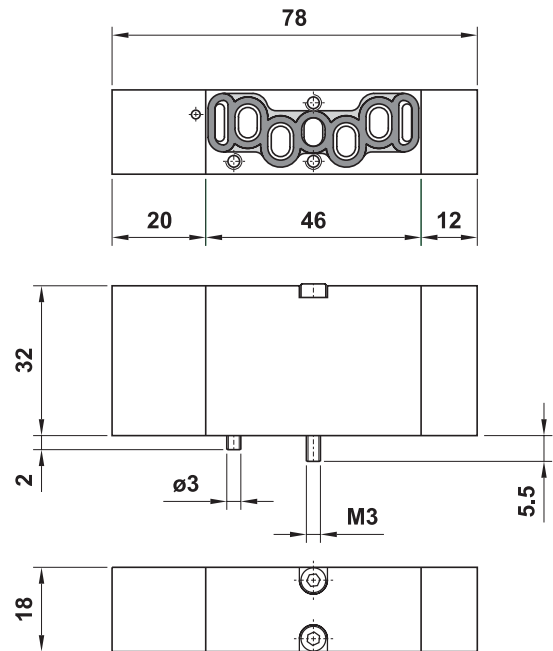
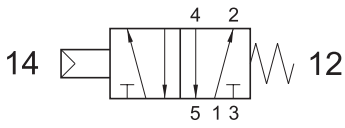
*pneumatically piloted valves - VDMA 18 mm*



## 851 MC

5/2 comando pneumatico - ritorno a molla

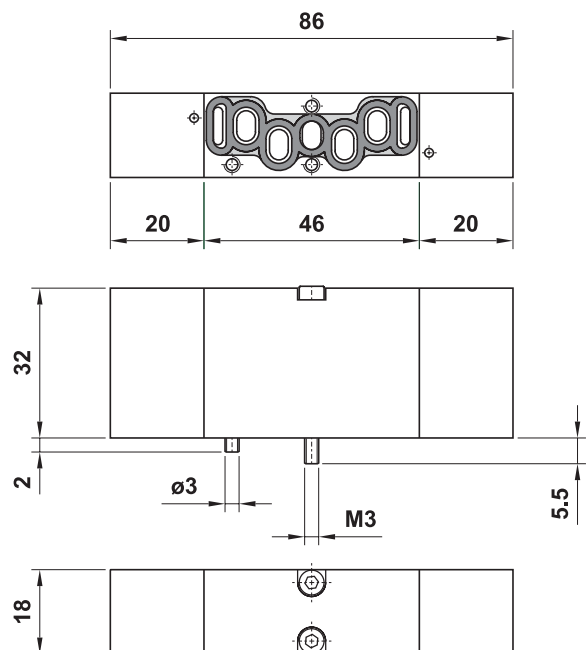
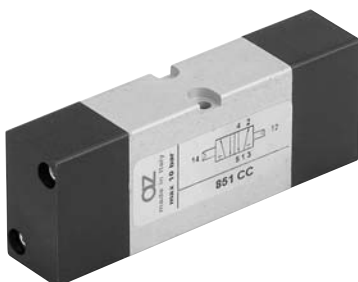
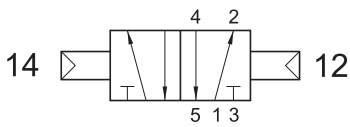
*5/2 pneumatic pilot - spring return*



## 851 CC

5/2 doppio comando pneumatico

*5/2 double pneumatic pilot*



# valvole VDMA 18 mm azionamento pneumatico

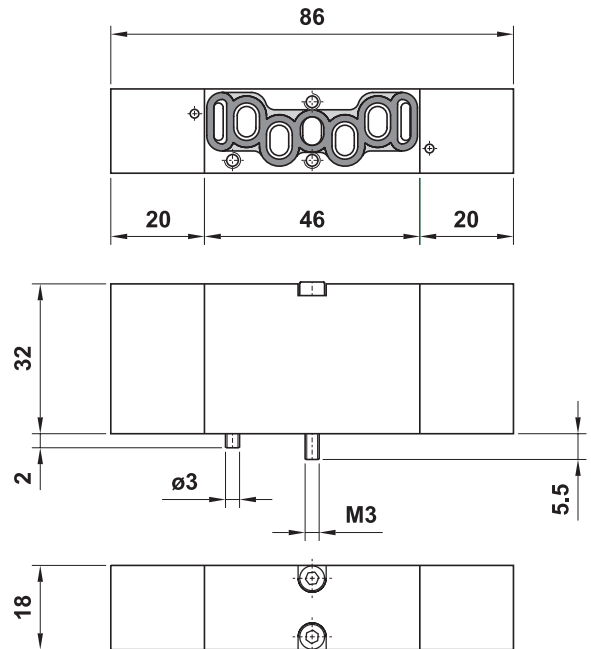
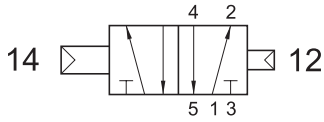
*pneumatically piloted valves - VDMA 18 mm*



## 851 CCD

5/2 doppio comando pneumatico - con differenziale

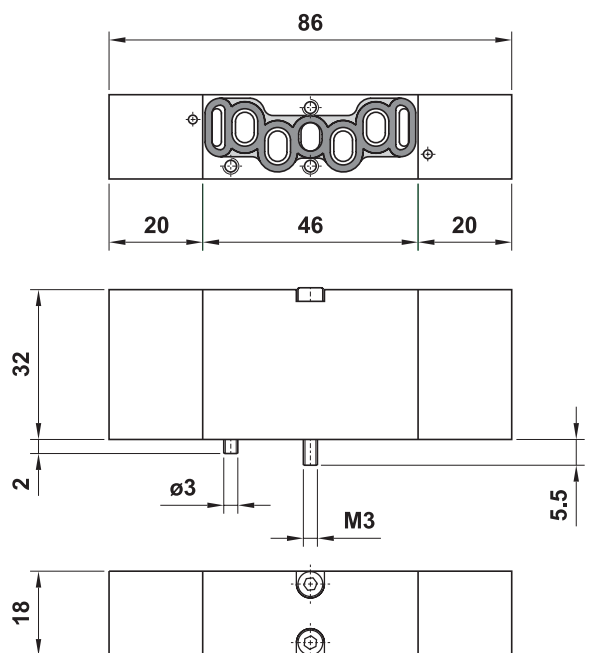
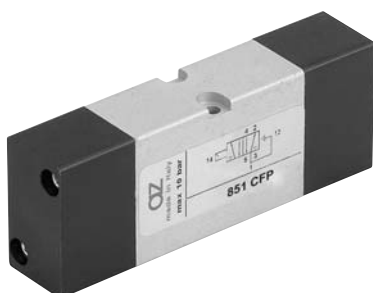
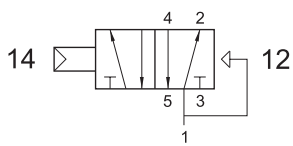
*5/2 double pneumatic pilot - with differential*



## 851 CFP

5/2 comando pneumatico - ritorno a molla pneumatica

*5/2 pneumatic pilot - pneumatic spring return*



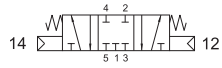
# valvole VDMA 18 mm azionamento pneumatico

*pneumatically piloted valves - VDMA 18 mm*



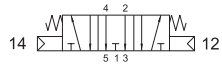
**8513C CC**

centri chiusi  
*closed centres*



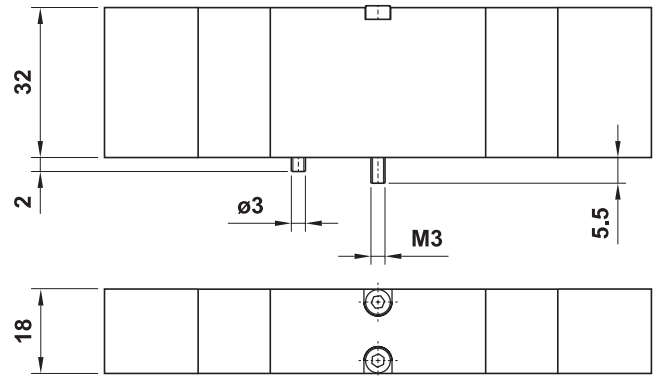
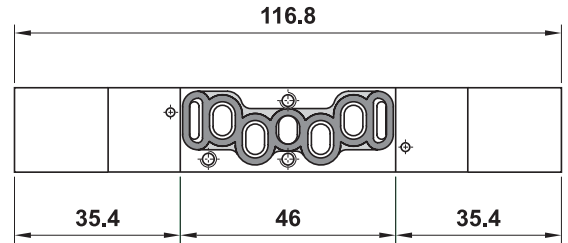
**8513A CC**

centri aperti  
*open centres*



5/3 doppio comando pneumatico

*5/3 double pneumatic pilot*

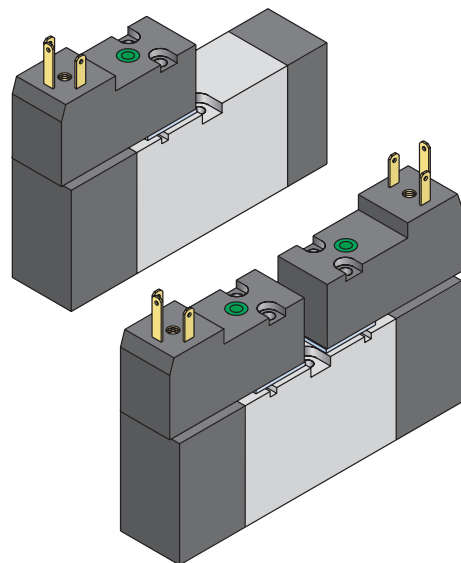


# valvole VDMA 18 mm azion. elettropneumatico

*solenoid actuated valves - VDMA 18 mm*



- Valvole a spola 5/2-5/3  
*5/2-5/3 spool valves*
- A norma VDMA 24563 - taglia 02 (18 mm)  
*Compliant to norm VDMA 24563 - size 02 (18 mm)*
- Montaggio su basi modulari o a posti fissi  
*Installation on multiple sub-bases or manifolds*
- Azionamento elettropneumatico monostabile o bistabile  
*Mono-stable or bi-stable solenoid pilot*
- 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*



I prodotti di seguito indicati sono venduti con elettropilota/i montato/i (per i dati tecnici vedi pag. 102).  
*The following listed products are sold with mounted solenoid pilot(s); for technical data see page 102.*

## Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 13 ms TRR (12): 26 ms
bistabile <i>bi-stable</i>	TRA (14): 24 ms TRR (12): 24 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>		5 mm	
Portata nominale a 6 bar, $\Delta p$ 1 bar <i>Nominal flow rate at 6 bar, <math>\Delta p</math> 1 bar</i>		550 NI/min	
Temperatura di esercizio <i>Temperature range</i>		max +60°C	
Pressione di esercizio <i>Working pressure</i>	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	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 [mono-stable]		bistabile [bi-stable]
	2.5 ... 10 bar 0.25 ... 1 MPa		1 ... 10 bar 0.1 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>		



# valvole VDMA 18 mm azion. elettropneumatico

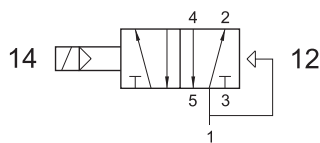
*solenoid actuated valves - VDMA 18 mm*



## 851 EFP xx

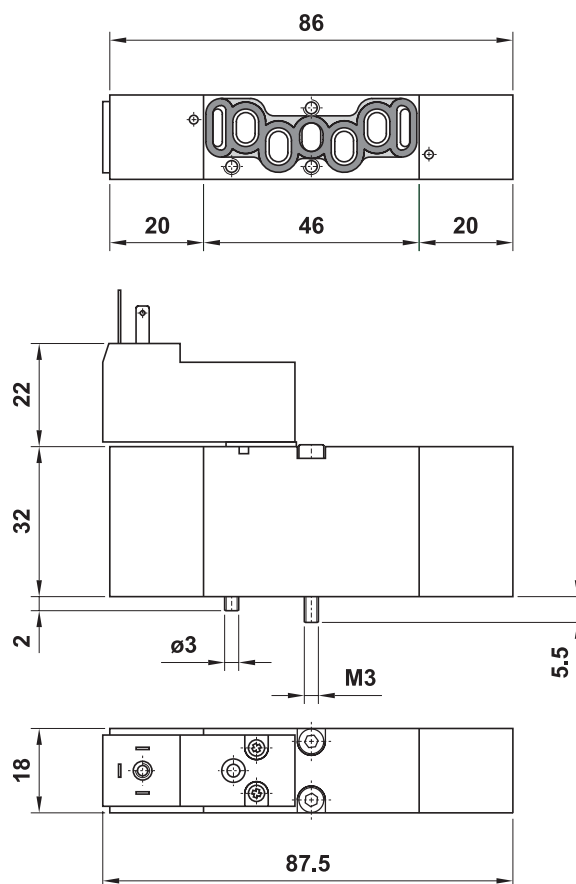
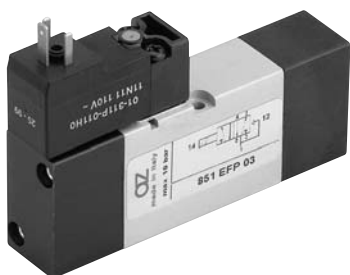
5/2 comando elettrico - ritorno a molla pneumatica

*5/2 solenoid pilot - pneumatic 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.*

12V DC	<b>00</b>
24V DC	<b>01</b>
24V 50/60Hz	<b>02</b>
110V 50/60Hz	<b>03</b>
220V 50/60Hz	<b>04</b>



# valvole VDMA 18 mm azion. elettropneumatico

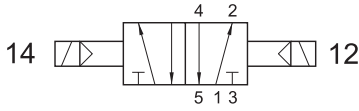
*solenoid actuated valves - VDMA 18 mm*



## 851 EE xx

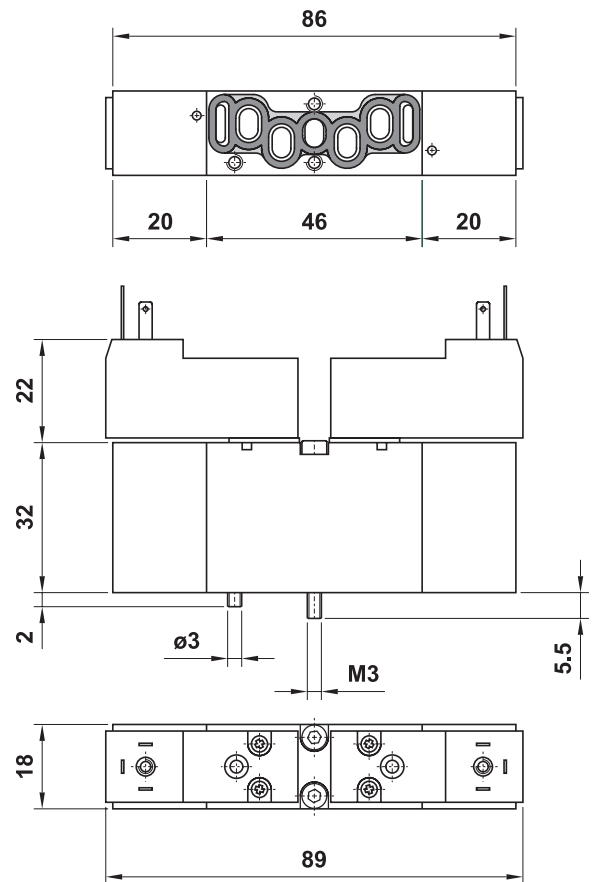
5/2 doppio comando elettrico

*5/2 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.

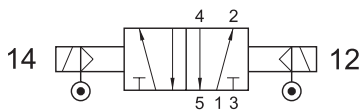
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



## 851 EE AS xx

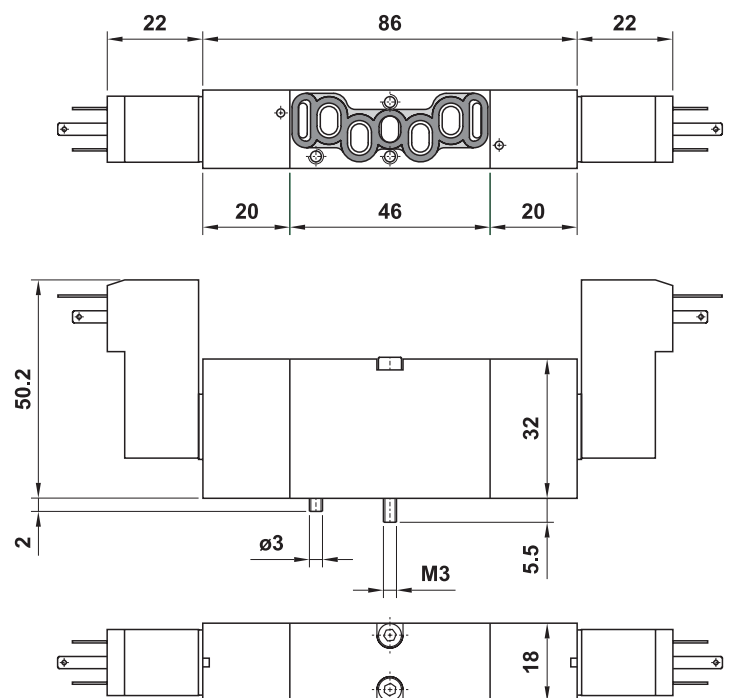
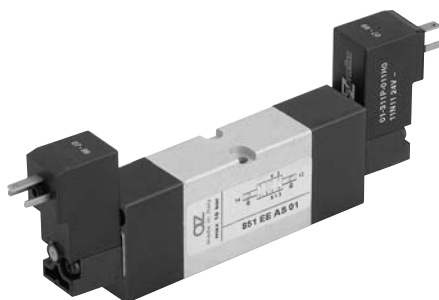
5/2 doppio comando elettrico alimentazione separata

*5/2 double solenoid pilot with separate air supply*



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.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



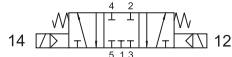
# valvole VDMA 18 mm azion. elettropneumatico

*solenoid actuated valves - VDMA 18 mm*



## 8513C EE xx

centri chiusi  
*closed centres*



## 8513A EE xx

centri aperti  
*open centres*

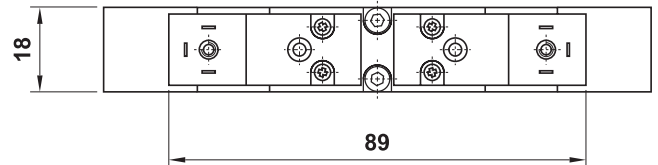
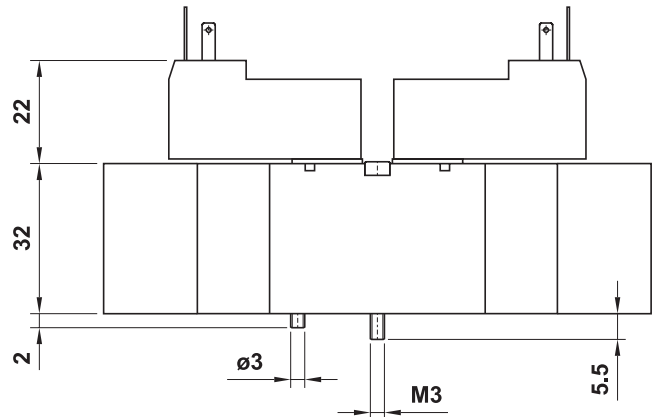
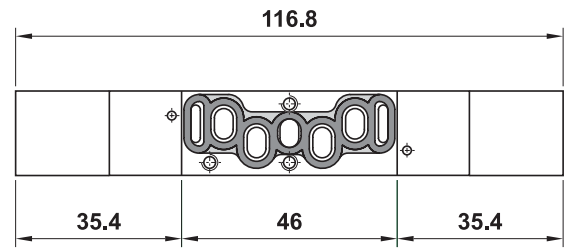


5/3 doppio comando elettrico

*5/3 double solenoid pilot*

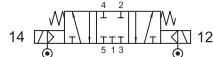
Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.  
*In the part number replace "xx" with the reference of the solenoid tension.*

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



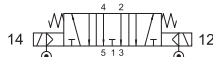
## 8513C EE AS xx

centri chiusi  
*closed centres*



## 8513A EE AS xx

centri aperti  
*open centres*

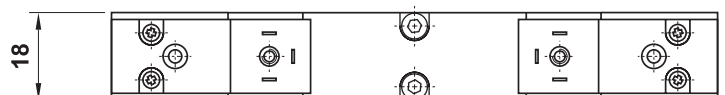
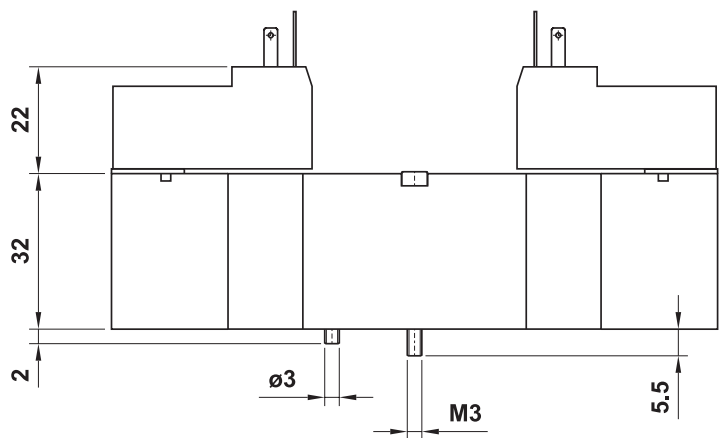
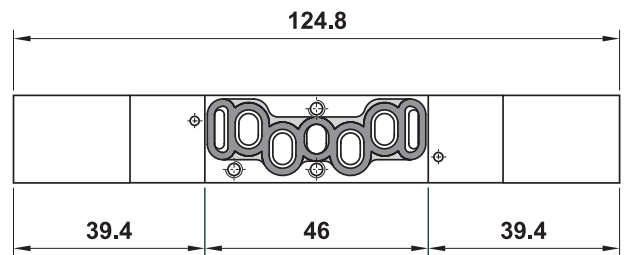
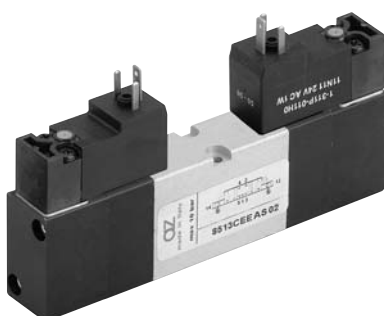


5/3 doppio comando elettrico alimentazione separata

*5/3 double solenoid pilot with separate air supply*

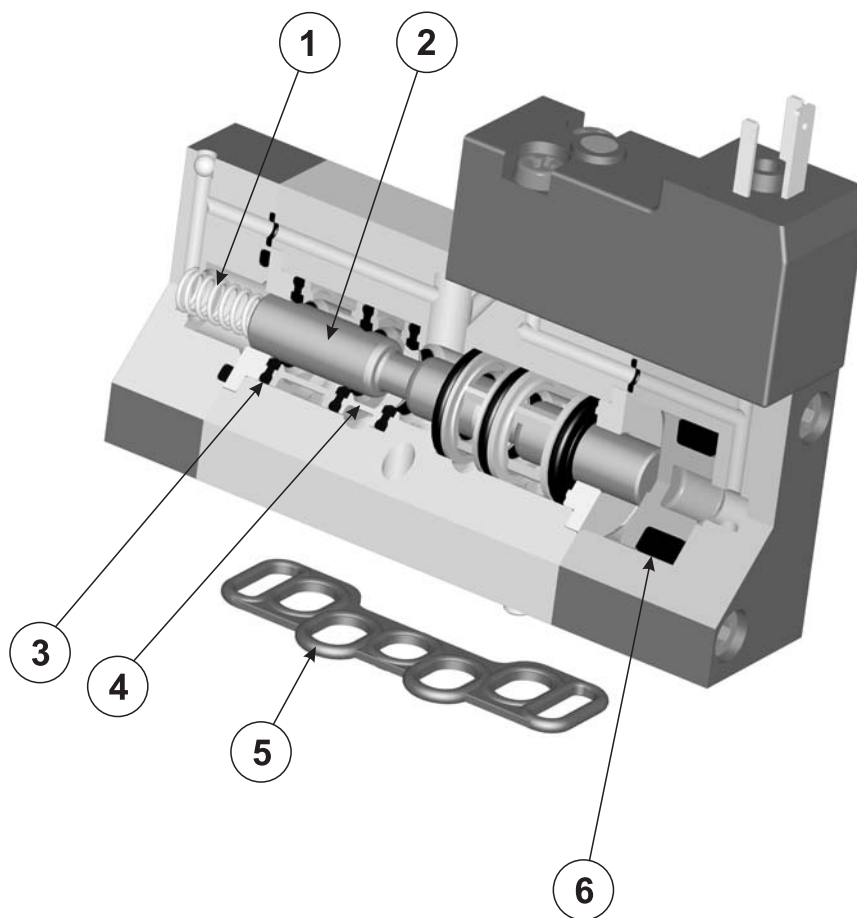
Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.  
*In the part number replace "xx" with the reference of the solenoid tension.*

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



# ricambi per valvole VDMA 18 mm

spare parts for 18 mm VDMA valves



1. Molla: acciaio [spring: steel]
2. Spola: alluminio 11S nichelato [spool: aluminium 11S, nickeled]
3. Guarnizione cassetto: NBR [seal for spool: NBR]
4. Distanziale cassetto: ottone [brass]
5. Guarnizione corpo VDMA: NBR [seal for valve body VDMA: NBR]
6. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]

codice kit code of kit	utilizzabile per suitable for		
05.050.2	851 MC	851 ME	
05.051.2	851 CC	851 EE	851 EE AS
05.052.2	8513C CC	8513A CC	8513C EE
	8513A EE	8513C EE AS	8513A EE AS
05.048.2	851 CCD	851 CFP	851 EFP
05.049.2	851 ME AS		

# sottobasi modulari per valvole VDMA 18 mm

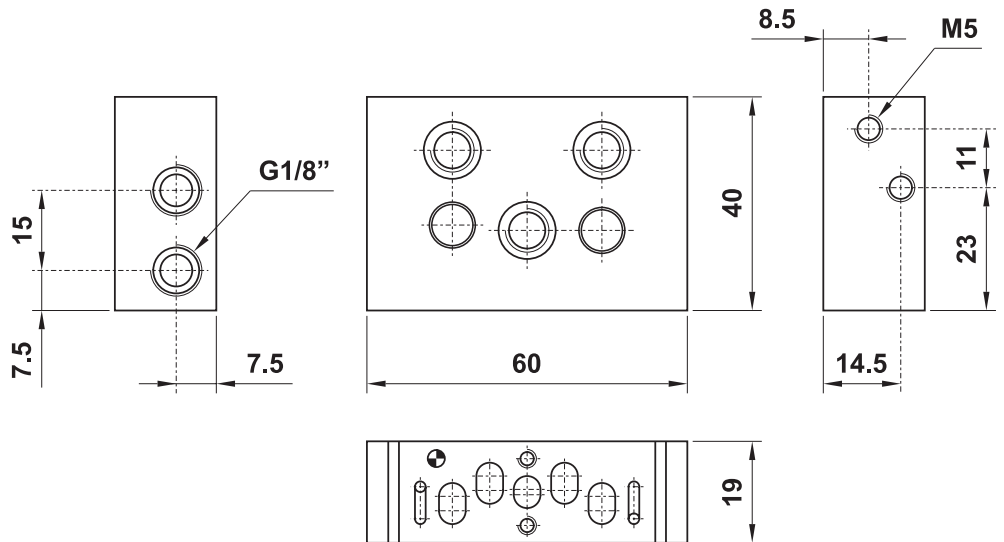
multiple sub-bases for 18 mm VDMA valves



## sottobase modulare modular sub-base

CODICE DI ORDINAZIONE  
ORDER CODE

**BM851**

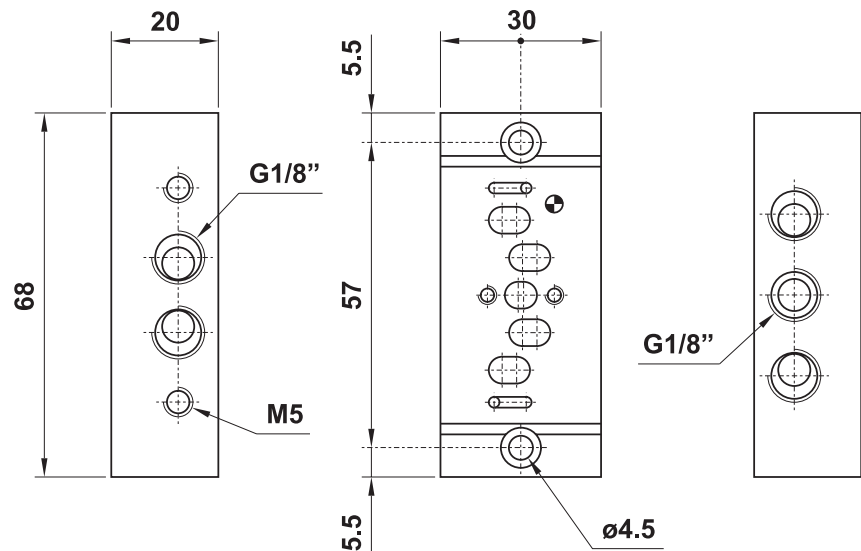
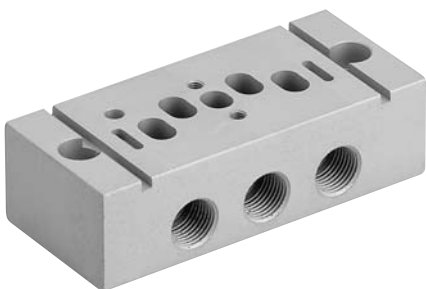


È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

## sottobase singola individual sub-base

CODICE DI ORDINAZIONE  
ORDER CODE

**BS851**



# sottobasi modulari per valvole VDMA 18 mm

multiple sub-bases for 18 mm VDMA valves



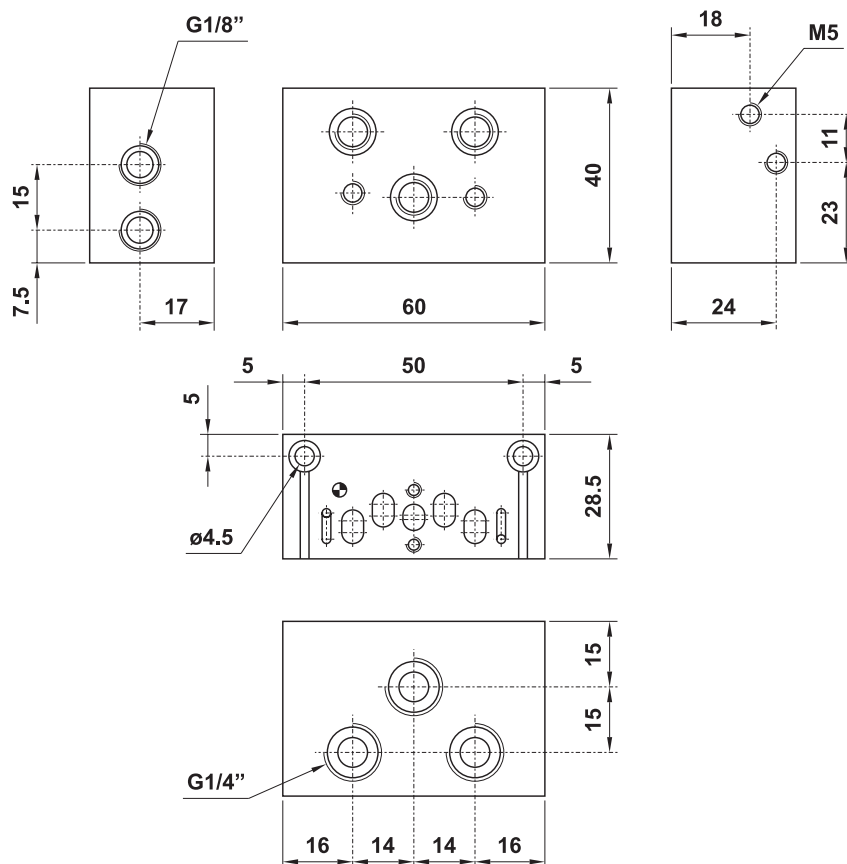
## terminale (con base) sinistro left hand header (with sub-base)

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**TS851**

Questo terminale integra una base per il montaggio della valvola.

*This header includes one sub-base for valve installation.*



È venduto in kit con i particolari necessari al suo assemblaggio.

*It is sold in kit with all necessary pieces for installation.*

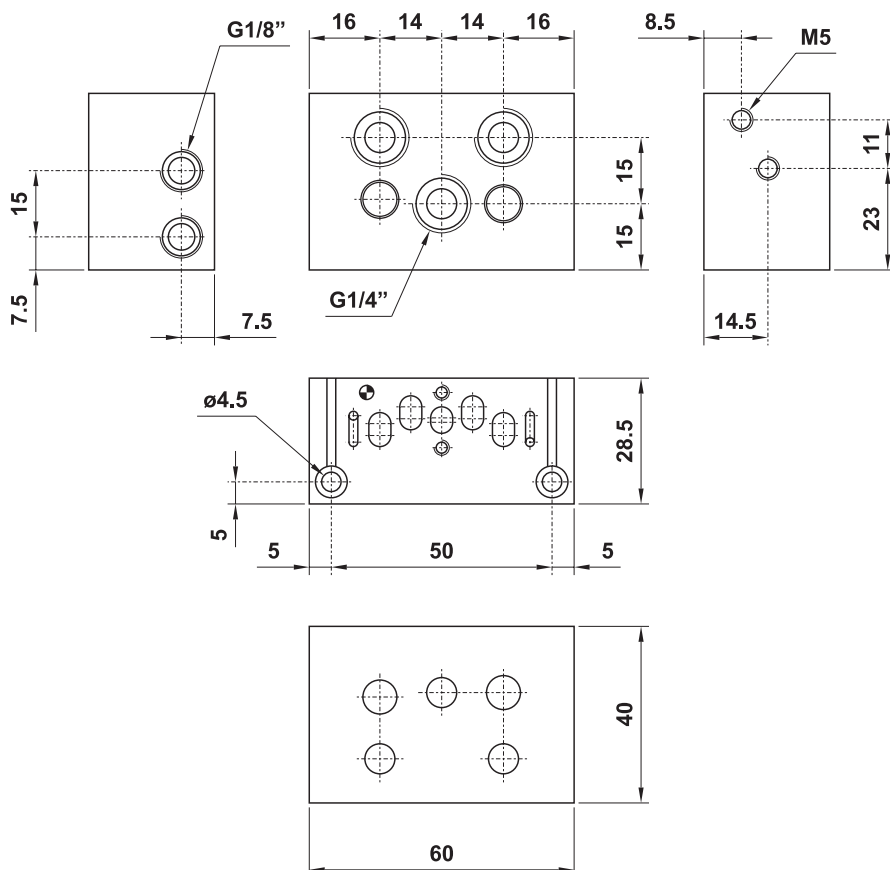
## terminale (con base) destro right hand header (with sub-base)

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**TD851**

Questo terminale integra una base per il montaggio della valvola.

*This header includes one sub-base for valve installation.*



È venduto in kit con i particolari necessari al suo assemblaggio.

*It is sold in kit with all necessary pieces for installation.*

# sottobasi modulari per valvole VDMA 18 mm

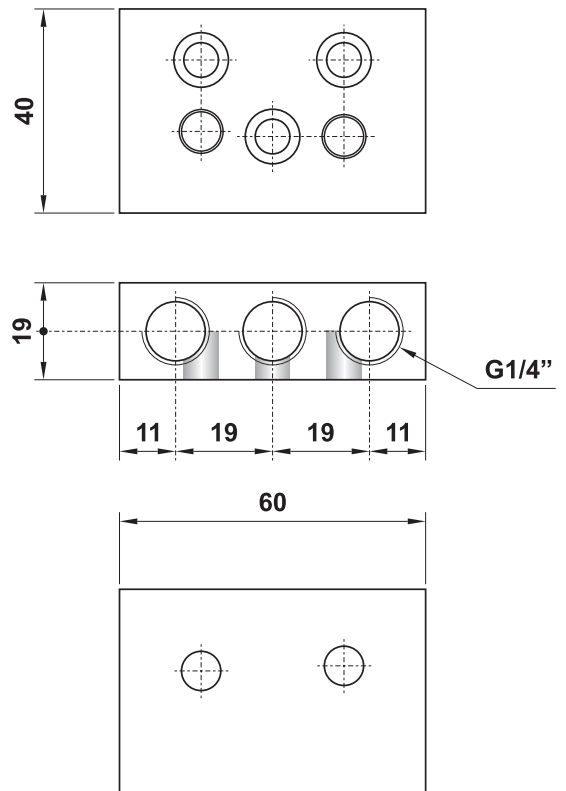
multiple sub-bases for 18 mm VDMA valves



**intermedio**  
*intermediate header*

**CODICE DI ORDINAZIONE**  
*ORDER CODE*

**DR851**

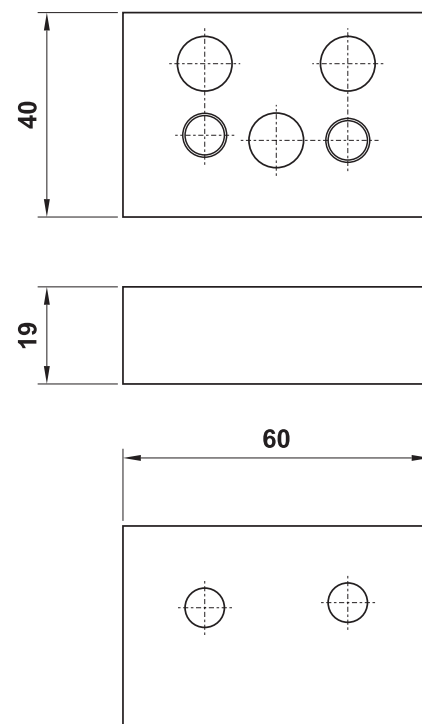
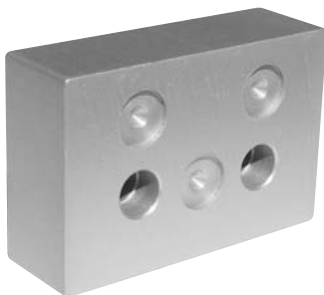


È venduto in kit con i particolari necessari al suo assemblaggio.  
*It is sold in kit with all necessary pieces for installation.*

**diaframma**  
*blanking piece*

**CODICE DI ORDINAZIONE**  
*ORDER CODE*

**DC851**



È venduto in kit con i particolari necessari al suo assemblaggio.  
*It is sold in kit with all necessary pieces for installation.*

# sottobasi modulari per valvole VDMA 18 mm

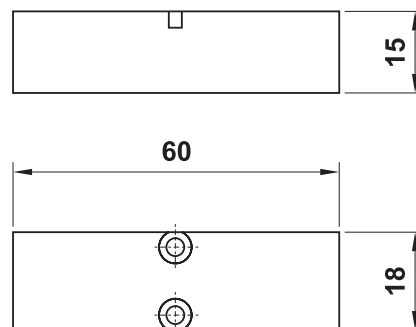
multiple sub-bases for 18 mm VDMA valves



## piastrina di chiusura blanking plate

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**CS851**

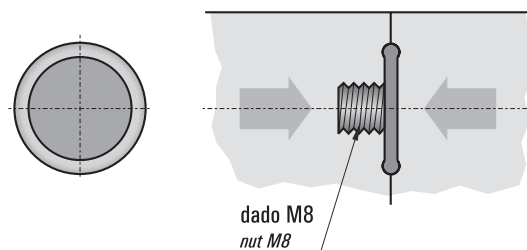


È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

## guarnizione diaframma diaphragm gasket

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**DF851**



Da inserirsi tra due sottobasi modulari per bloccare il flusso d'aria e dividere una batteria di valvole in zone alimentabili a pressioni diverse.

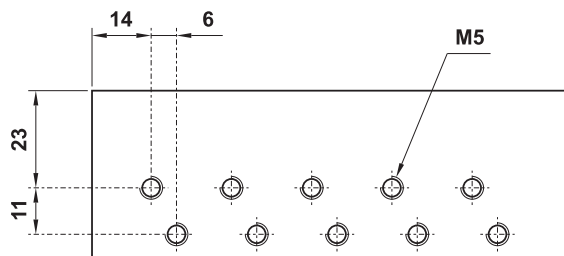
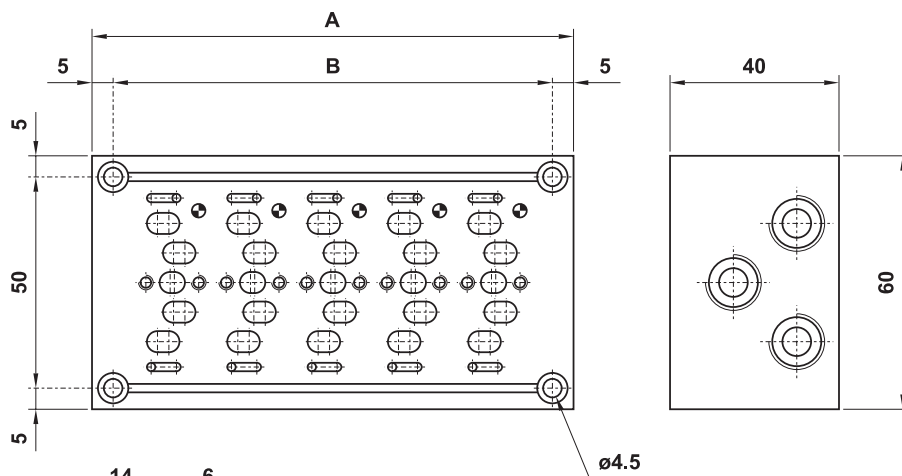
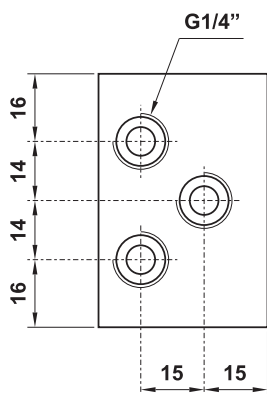
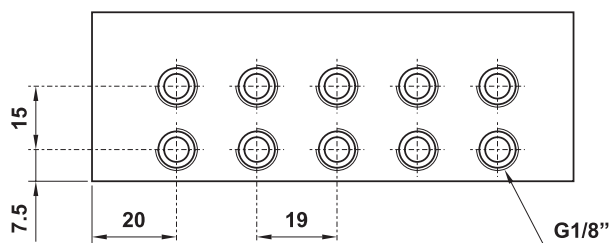
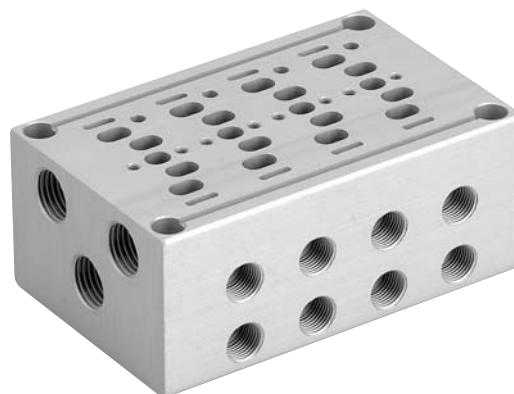
To be inserted between two sub-bases to stop the air flow and divide the manifold into separate zones.

# sottobasi a posti fissi valvole VDMA 18 mm

manifolds for 18 mm VDMA valves



- Scarichi convogliati  
*Common exhaust*
- Pilotaggi separati per ogni valvola  
*Individual pilot for each valve*
- Materiale: alluminio anodizzato  
*Material: aluminium (anodize treatment)*
- Sottobasi speciali a richiesta  
*Special manifolds on request*



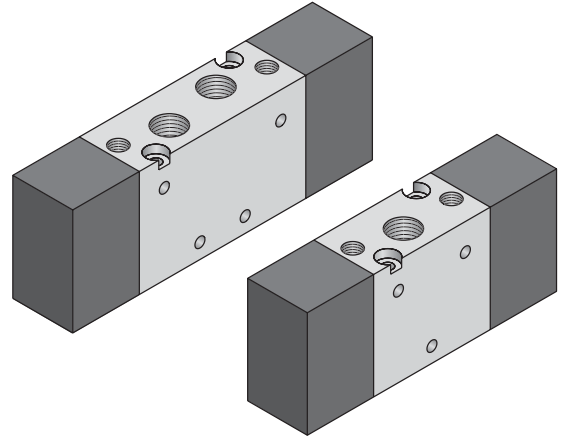
modello model	nr. posizioni no. stations	A	B
05.052.1	2	57	47
05.053.1	3	76	66
05.054.1	4	95	85
05.055.1	5	114	104
05.056.1	6	133	123
05.057.1	7	152	142
05.058.1	8	171	161
05.059.1	9	190	180
05.060.1	10	209	199
05.113.1	11	228	218
05.114.1	12	247	237

# valvole 18 mm ad azionamento pneumatico

*pneumatically piloted valves - 18 mm*



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"  
*3/2-5/2-5/3 spool valves with G1/8" threaded ports*
- Spessore della valvola: 18 mm  
*Valve thickness: 18 mm*
- Montaggio in linea, su basi modulari o a posti fissi  
*Installation in-line, on multiple sub-bases or manifolds*
- Azionamento pneumatico monostabile o bistabile  
*Mono-stable or bi-stable pneumatic pilot*



## Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 12 ms TRR (12): 24 ms
bistabile <i>bi-stable</i>	TRA (14): 21 ms TRR (12): 21 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>	4.5 mm	
Portata nominale a 6 bar, $\Delta p$ 1 bar <i>Nominal flow rate at 6 bar, <math>\Delta p</math> 1 bar</i>	500 Nl/min	
Temperatura di esercizio <i>Temperature range</i>	max +60°C	
Pressione di esercizio <i>Working pressure</i>	max 10 bar max 1 MPa	
Pressione di azionamento <i>Actuating pressure</i>	monostabile [ <i>mono-stable</i> ]	bistabile [ <i>bi-stable</i> ]
	3 ... 10 bar 0.3 ... 1 MPa	2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>	

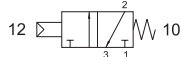
# valvole 18 mm ad azionamento pneumatico

*pneumatically piloted valves - 18 mm*



## 731 MC

normalmente chiusa  
*normally closed*



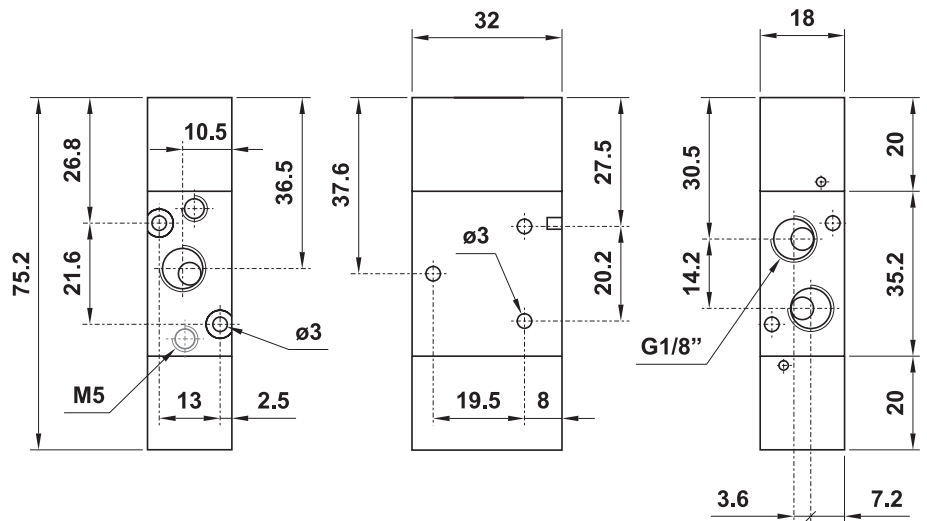
## 731 MCA

normalmente aperta  
*normally open*



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

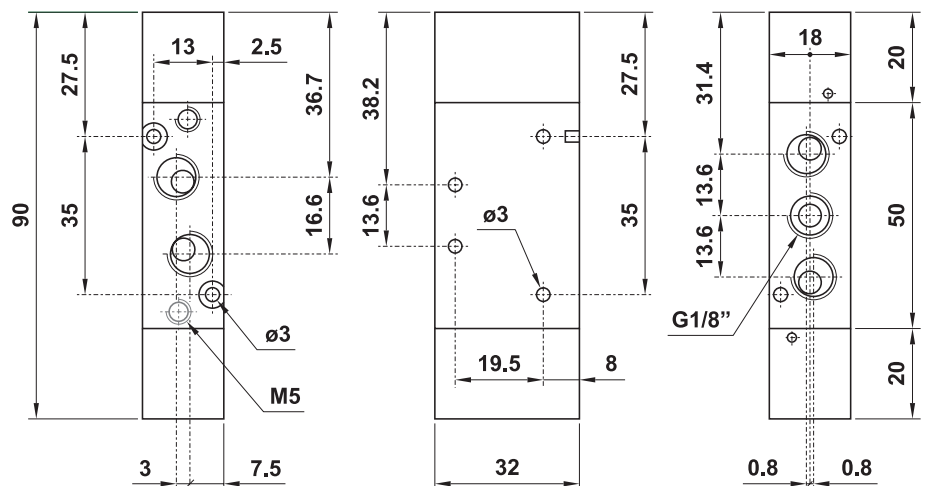
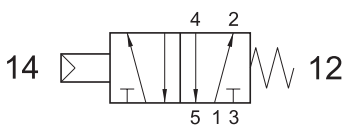
3/2 1/8" *pneumatic pilot - spring return*



## 751 MC

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

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



# valvole 18 mm ad azionamento pneumatico

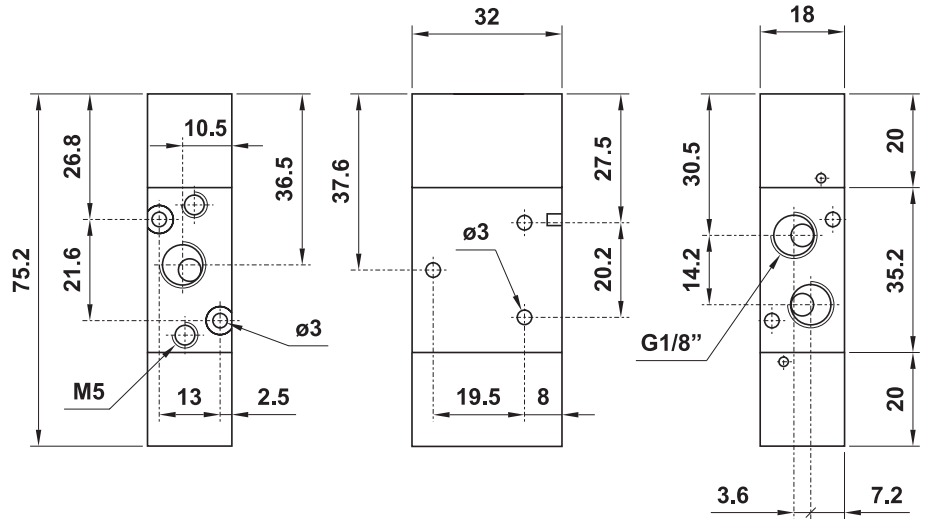
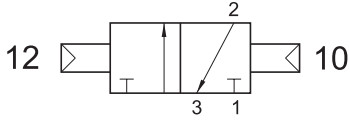
*pneumatically piloted valves - 18 mm*



## 731 CC

3/2 1/8" doppio comando pneumatico

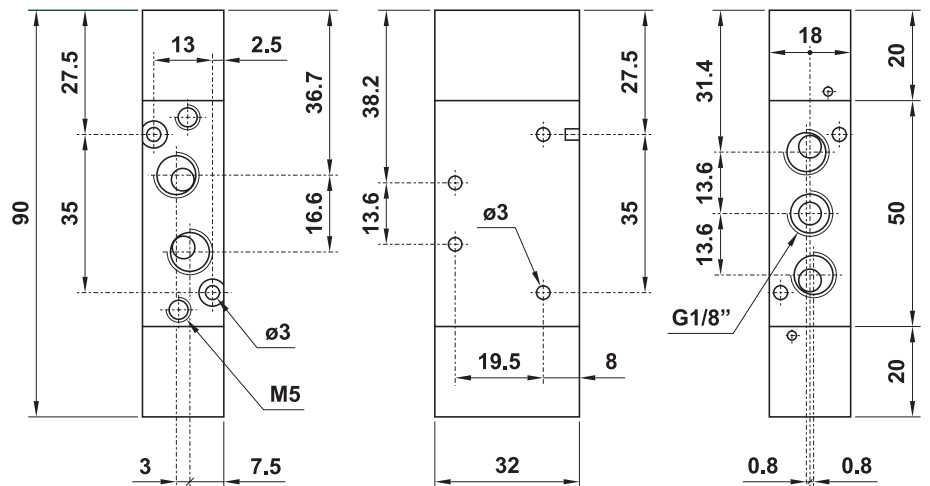
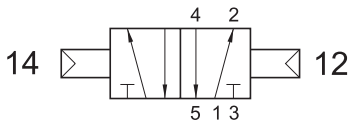
3/2 1/8" double pneumatic pilot



## 751 CC

5/2 1/8" doppio comando pneumatico

5/2 1/8" double pneumatic pilot



# valvole 18 mm ad azionamento pneumatico

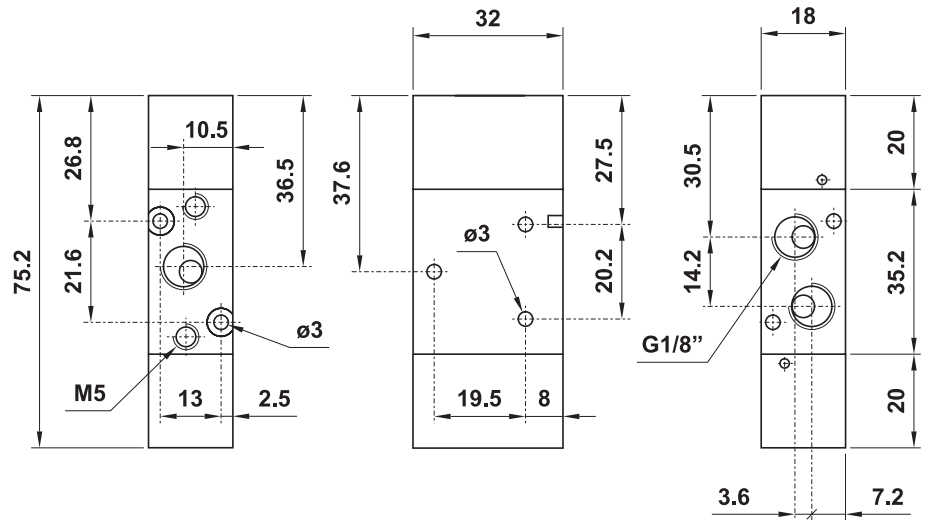
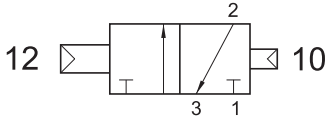
pneumatically piloted valves - 18 mm



## 731 CCD

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

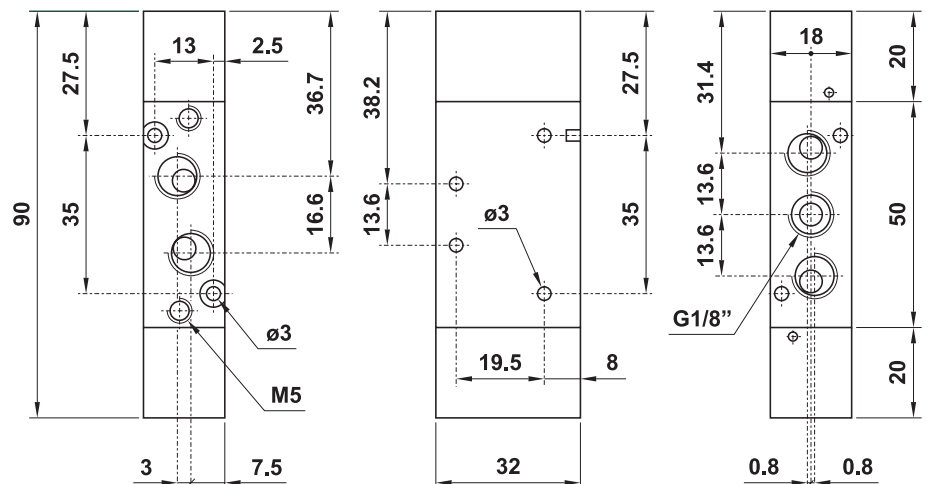
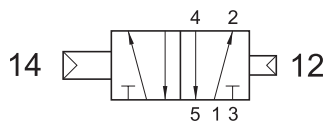
3/2 1/8" double pneumatic pilot - with differential



## 751 CCD

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

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



# valvole 18 mm ad azionamento pneumatico

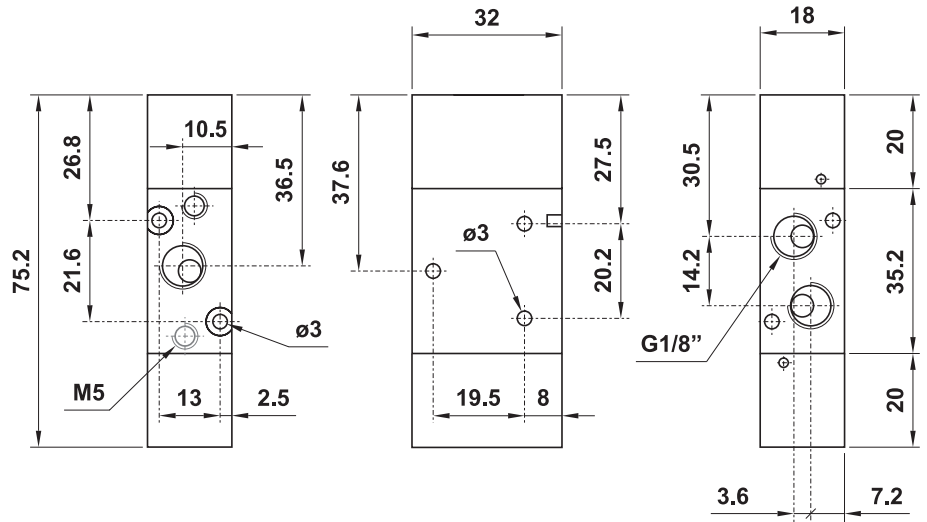
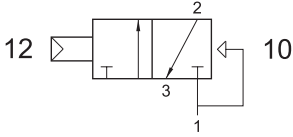
*pneumatically piloted valves - 18 mm*



## 731 CFP

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

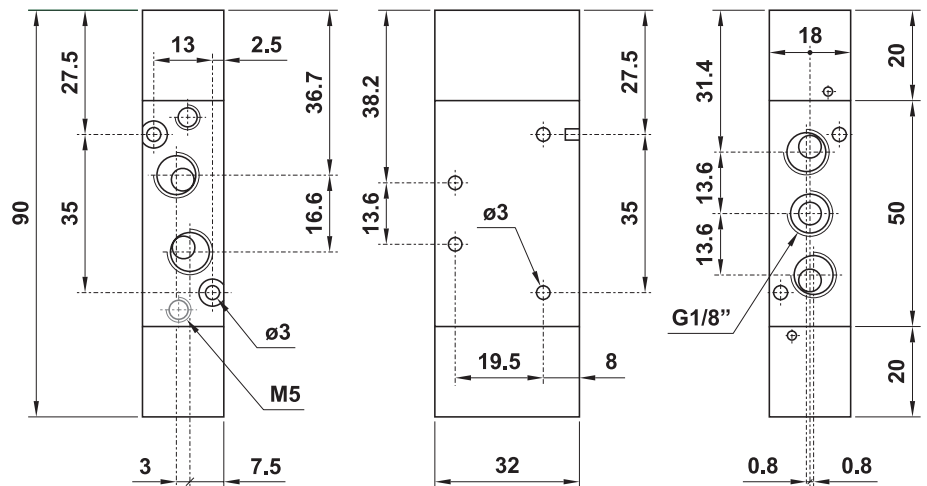
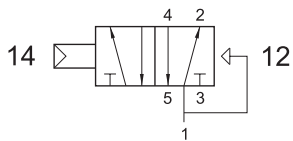
*3/2 1/8" NC pneumatic pilot - pneumatic spring return*



## 751 CFP

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

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



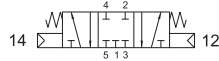
# valvole 18 mm ad azionamento pneumatico

*pneumatically piloted valves - 18 mm*



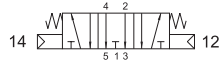
## 7513C CC

centri chiusi  
*closed centres*



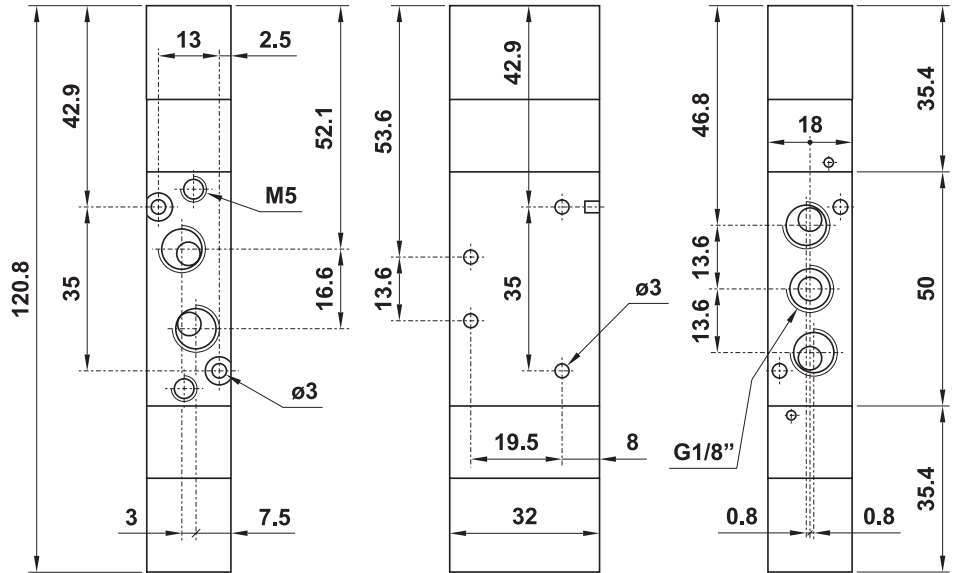
## 7513A CC

centri aperti  
*open centres*



5/3 1/8" doppio comando pneumatico

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

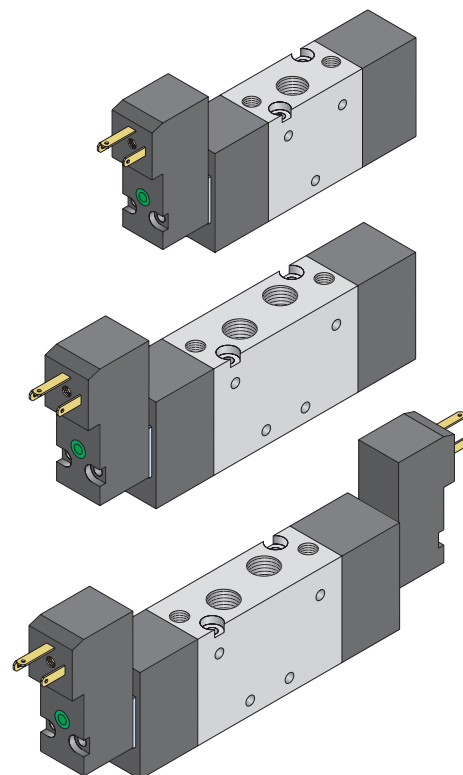


# valvole 18 mm ad azion. elettropneumatico

*solenoid actuated valves - 18 mm*



- Valvole a spola 3/2-5/2-5/3 con attacchi filettati G1/8"  
*3/2-5/2-5/3 spool valves with G1/8" threaded ports*
- Spessore della valvola: 18 mm  
*Valve thickness: 18 mm*
- Montaggio in linea, su basi modulari o a posti fissi  
*Installation in-line, on multiple sub-bases or manifolds*
- Azionamento elettropneumatico monostabile o bistabile  
*Mono-stable or bi-stable solenoid pilot*
- 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*



I prodotti di seguito indicati sono venduti con elettropilota/i montato/i (per i dati tecnici vedi pag. 102).  
*The following listed products are sold with mounted solenoid pilot(s); for technical data see page 102.*

## Tempi di risposta - response times

monostabile <i>mono-stable</i>	TRA (14): 13 ms TRR (12): 26 ms
bistabile <i>bi-stable</i>	TRA (14): 24 ms TRR (12): 24 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>		4.5 mm	
Portata nominale a 6 bar, $\Delta p$ 1 bar <i>Nominal flow rate at 6 bar, <math>\Delta p</math> 1 bar</i>		500 NI/min	
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>
	3 ... 10 bar 0.3 ... 1 MPa	2 ... 10 bar 0.2 ... 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>
	3 ... 10 bar 0.3 ... 1 MPa		2 ... 10 bar 0.2 ... 1 MPa
Fluido <i>Fluid</i>	Aria filtrata 50 $\mu$ con o senza lubrificazione <i>50<math>\mu</math> filtered, lubricated or non lubricated air</i>		

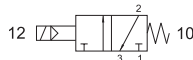
# valvole 18 mm ad azion. elettropneumatico

solenoid actuated valves - 18 mm



## 731 ME xx

normalmente chiusa  
normally closed



## 731 MEA xx

normalmente aperta  
normally open

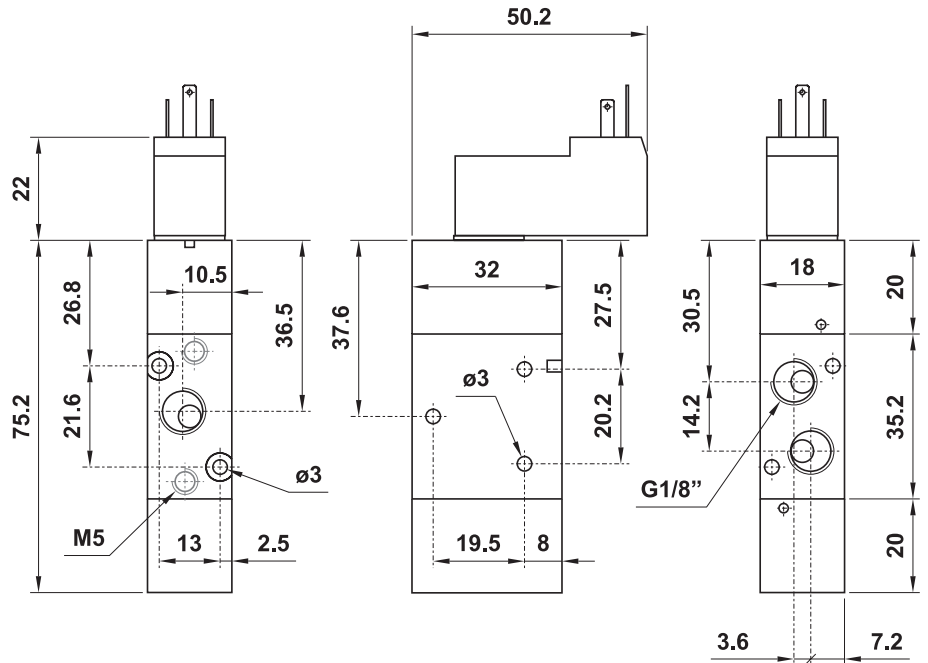
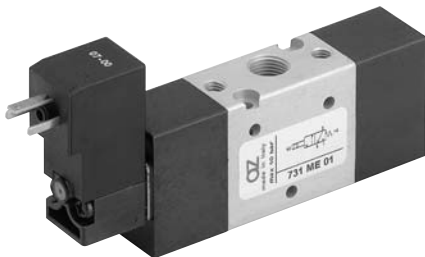


3/2 1/8" comando elettrico - ritorno a molla

3/2 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.

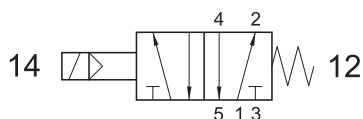
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



## 751 ME xx

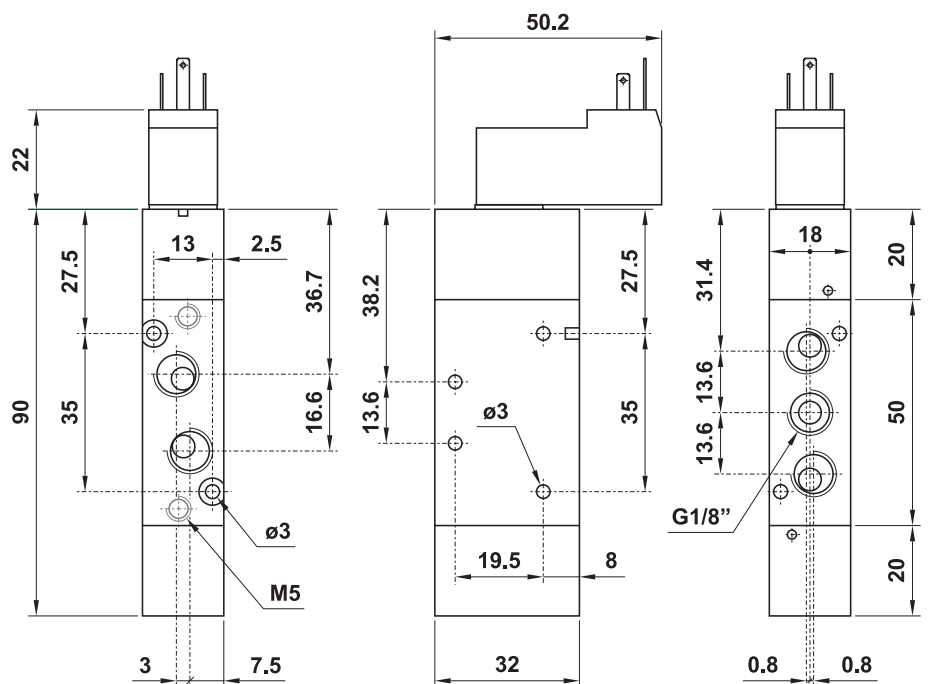
5/2 1/8" comando elettrico - ritorno a molla

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.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



# valvole 18 mm ad azion. elettropneumatico

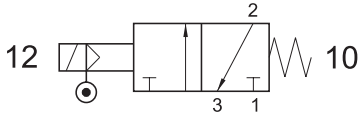
solenoid actuated valves - 18 mm



## 731 ME AS xx

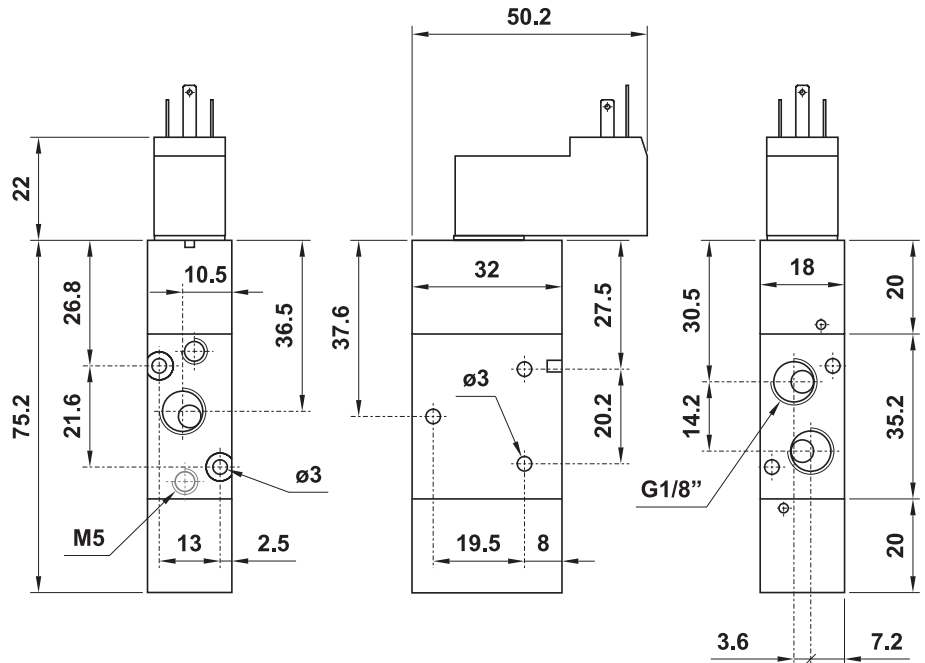
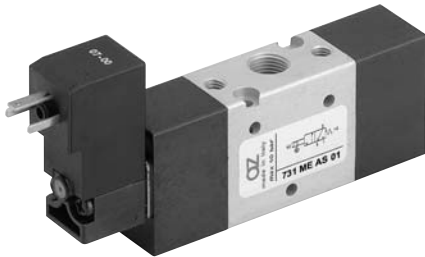
3/2 1/8" comando elettrico alimentazione separata - ritorno a molla

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

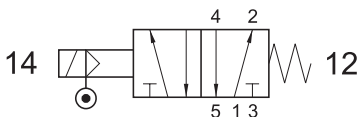
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



## 751 ME AS xx

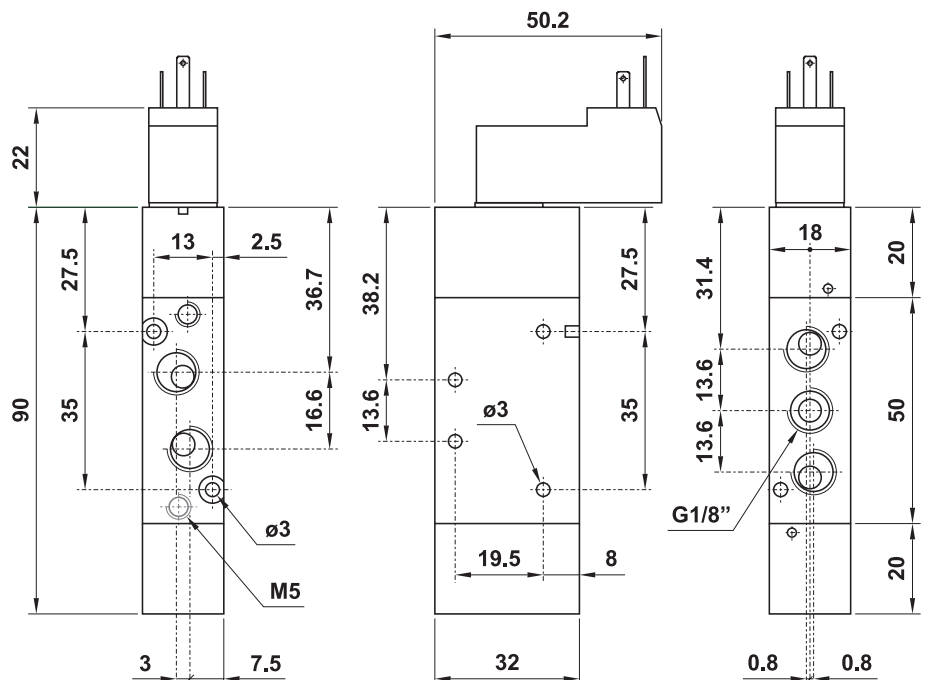
5/2 1/8" comando elettrico alimentazione separata - ritorno a molla

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



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.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



# valvole 18 mm ad azion. elettropneumatico

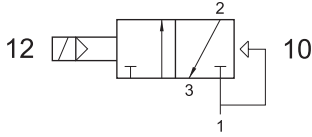
solenoid actuated valves - 18 mm



## 731 EFP xx

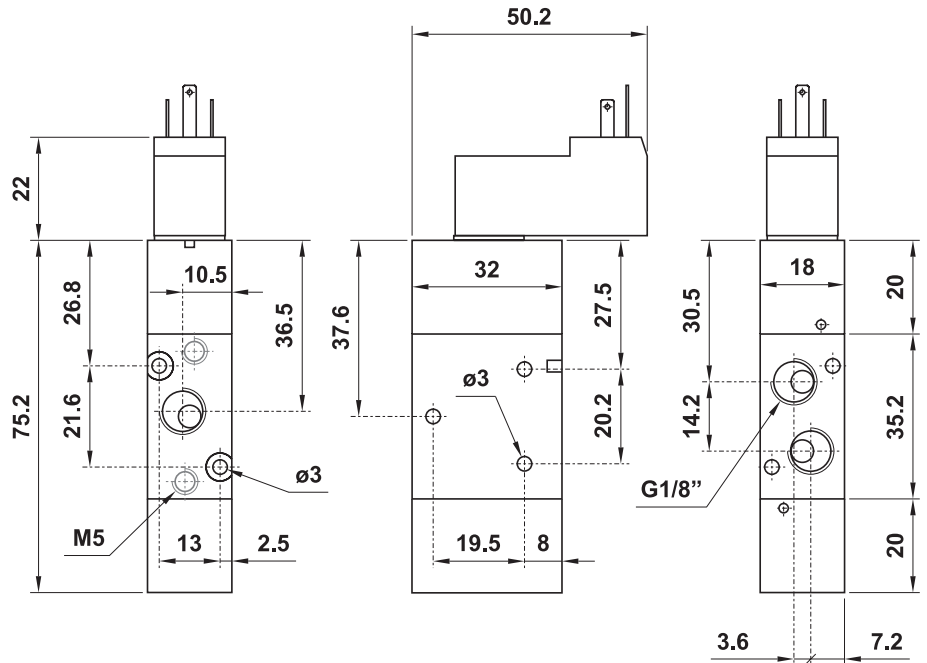
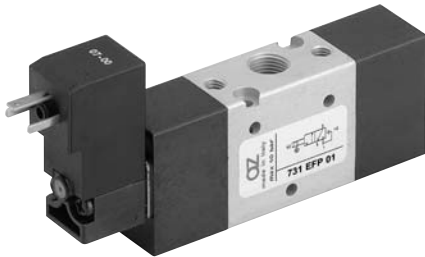
3/2 1/8" comando elettrico - ritorno a molla pneumatica

3/2 1/8" solenoid pilot - pneumatic 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.

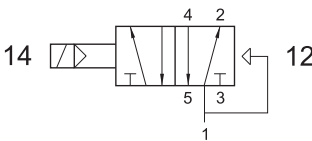
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



## 751 EFP xx

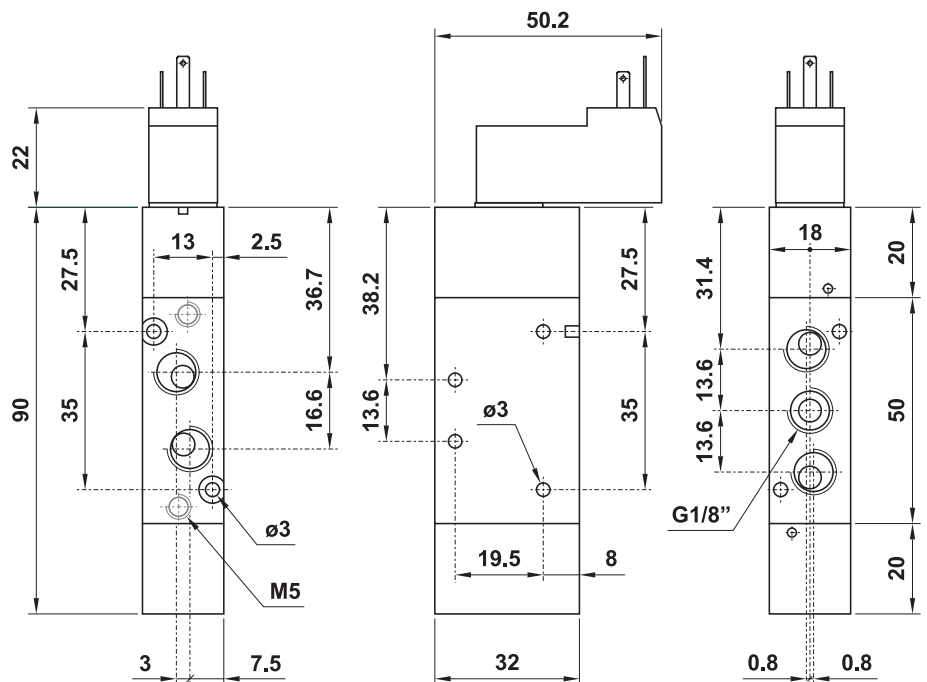
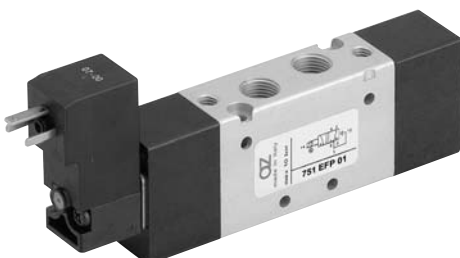
5/2 1/8" comando elettrico - ritorno a molla pneumatica

5/2 1/8" solenoid pilot - pneumatic 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.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



# valvole 18 mm ad azion. elettropneumatico

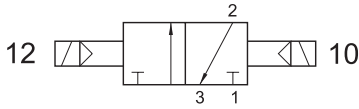
solenoid actuated valves - 18 mm



## 731 EE xx

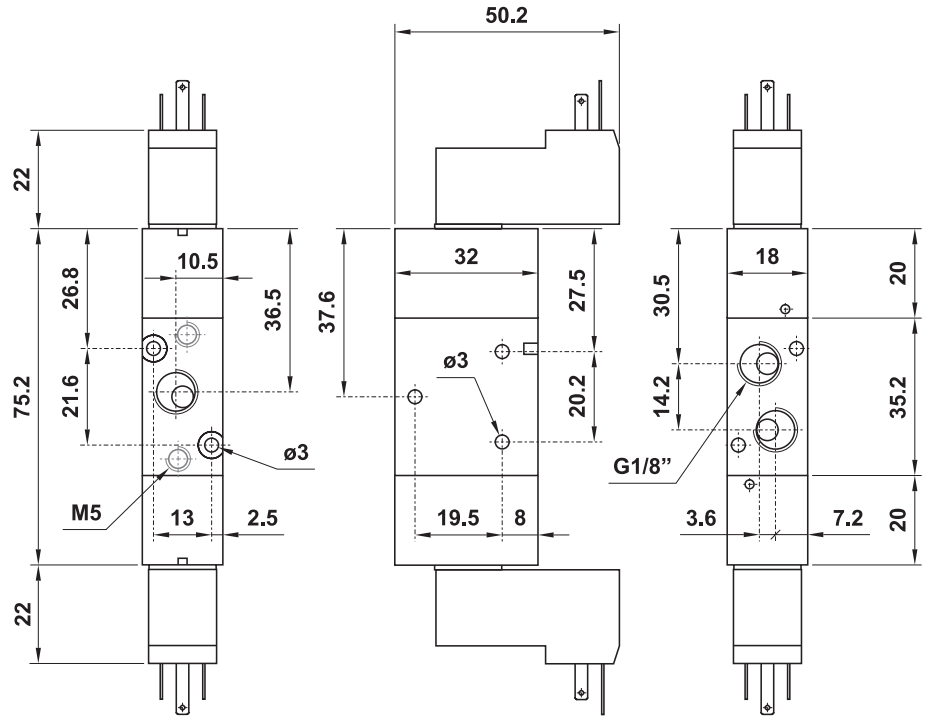
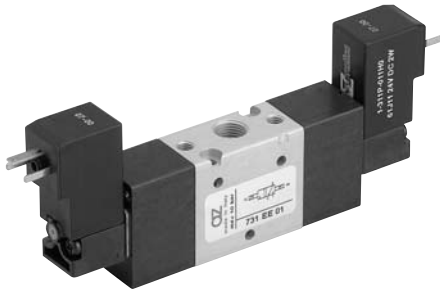
3/2 1/8" doppio comando elettrico

3/2 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.

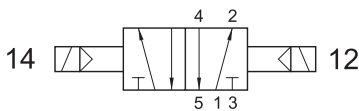
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



## 751 EE xx

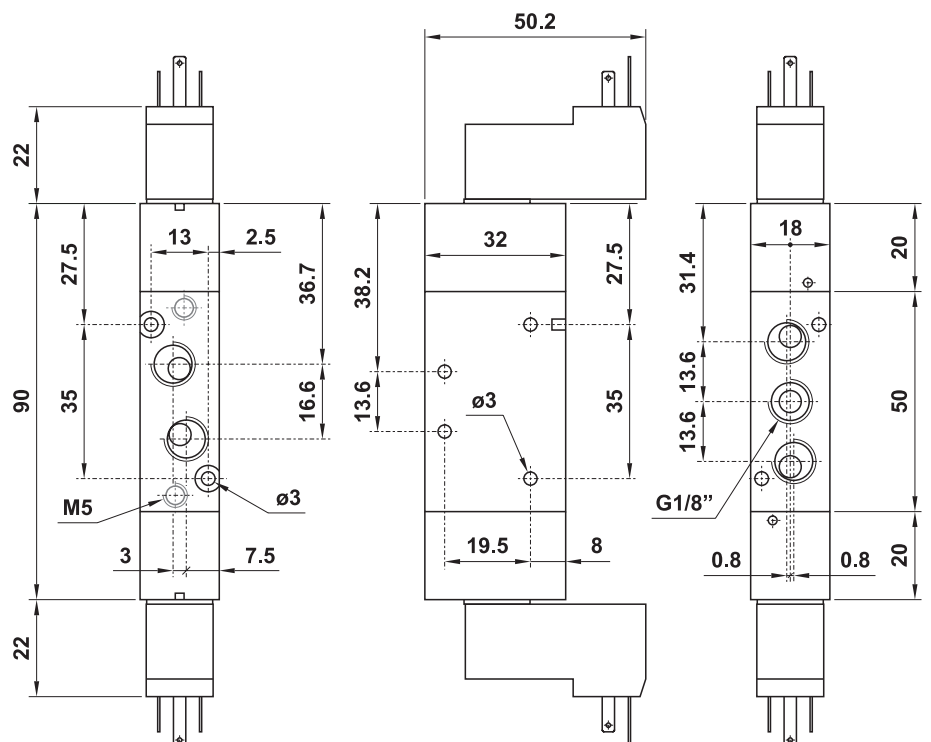
5/2 1/8" doppio comando elettrico

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.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



# valvole 18 mm ad azion. elettropneumatico

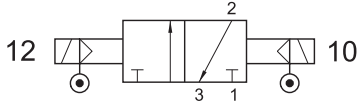
solenoid actuated valves - 18 mm



## 731 EE AS xx

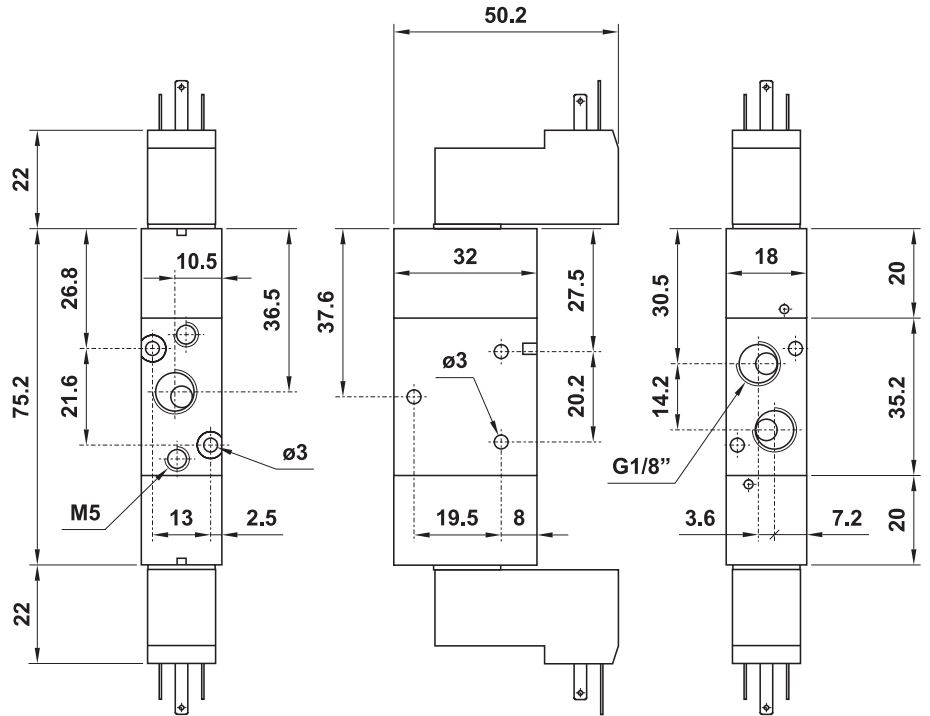
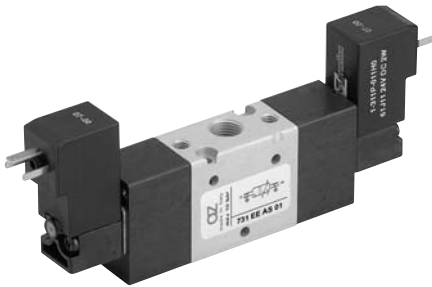
3/2 1/8" doppio comando elettrico alimentazione separata

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



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.

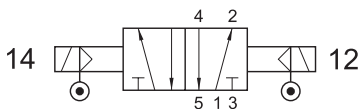
12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04



## 751 EE AS xx

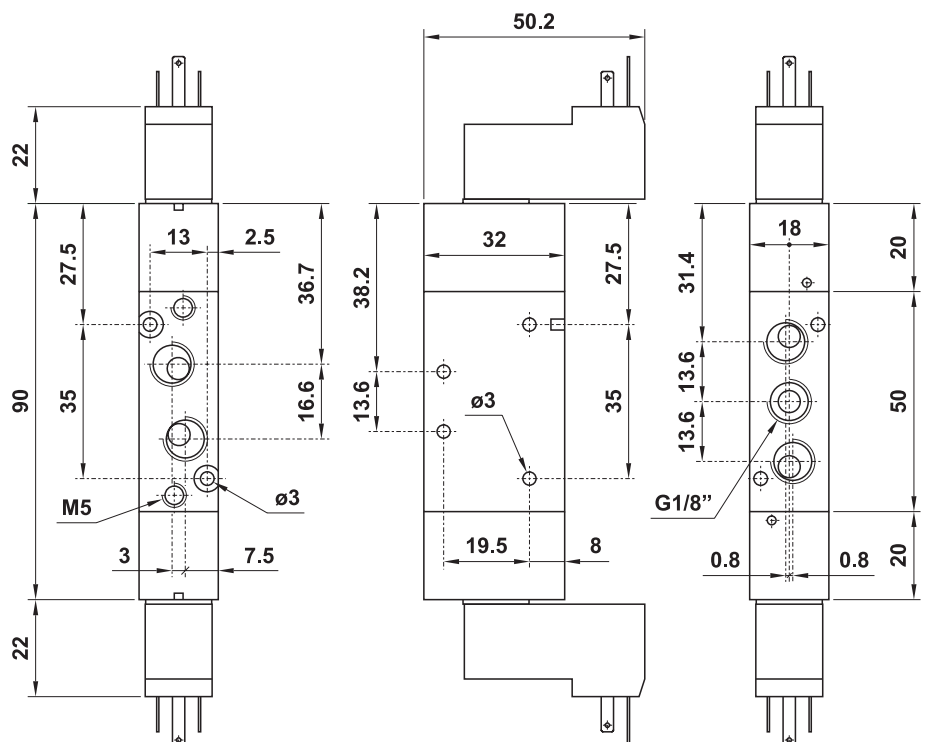
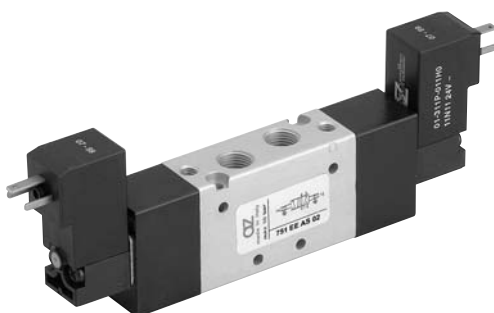
5/2 1/8" doppio comando elettrico alimentazione separata

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



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.

12V DC	00
24V DC	01
24V 50/60Hz	02
110V 50/60Hz	03
220V 50/60Hz	04

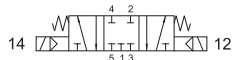


# valvole 18 mm ad azion. elettropneumatico

*solenoid actuated valves - 18 mm*



**7513C EE xx** centri chiusi  
*closed centres*



**7513A EE xx** centri aperti  
*open centres*



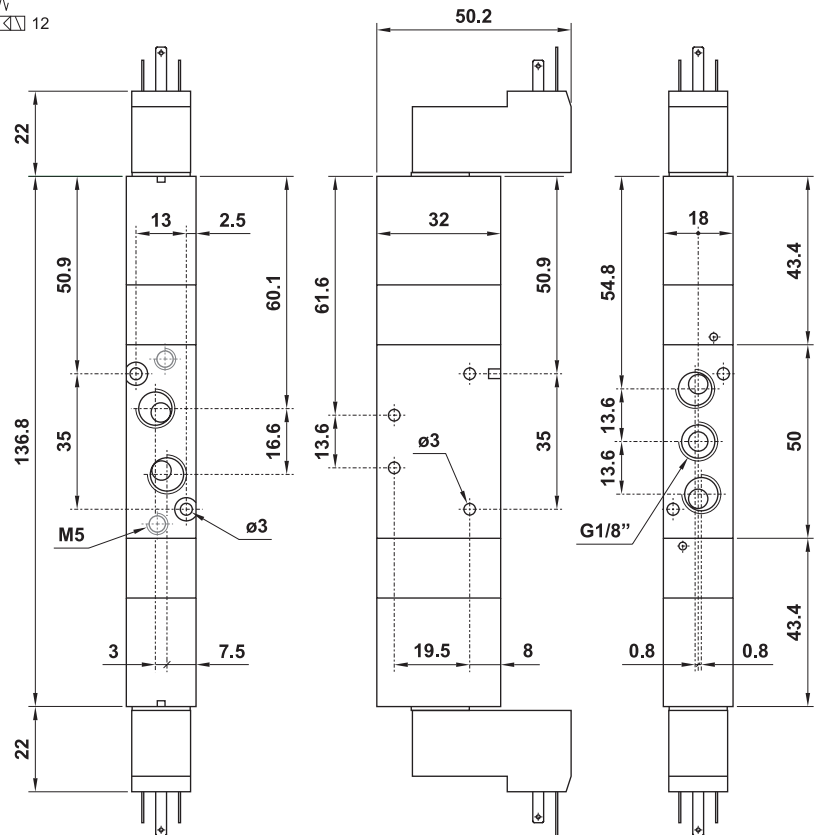
5/3 1/8" doppio comando elettrico

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

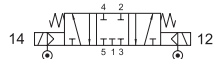
Nella sigla del prodotto sostituire le lettere "xx" con l'indicazione della tensione.

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

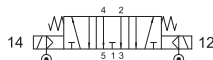
12V DC	<b>00</b>
24V DC	<b>01</b>
24V 50/60Hz	<b>02</b>
110V 50/60Hz	<b>03</b>
220V 50/60Hz	<b>04</b>



**7513C EE AS xx** centri chiusi  
*closed centres*



**7513A EE AS xx** centri aperti  
*open centres*



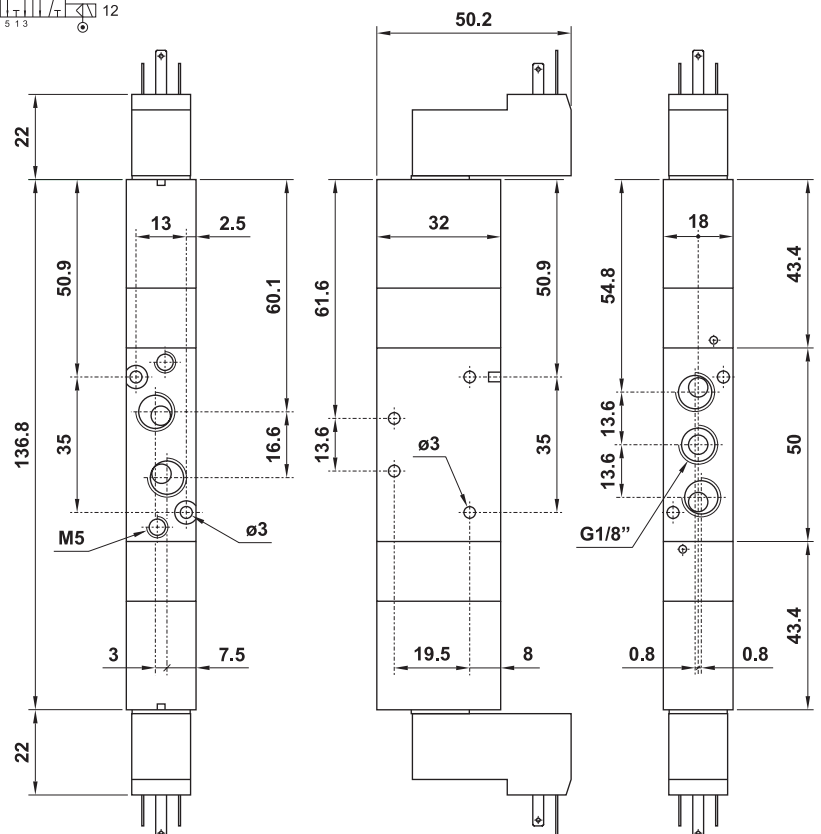
5/3 doppio comando elettrico alimentazione separata

*5/3 double solenoid pilot with separate air supply*

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

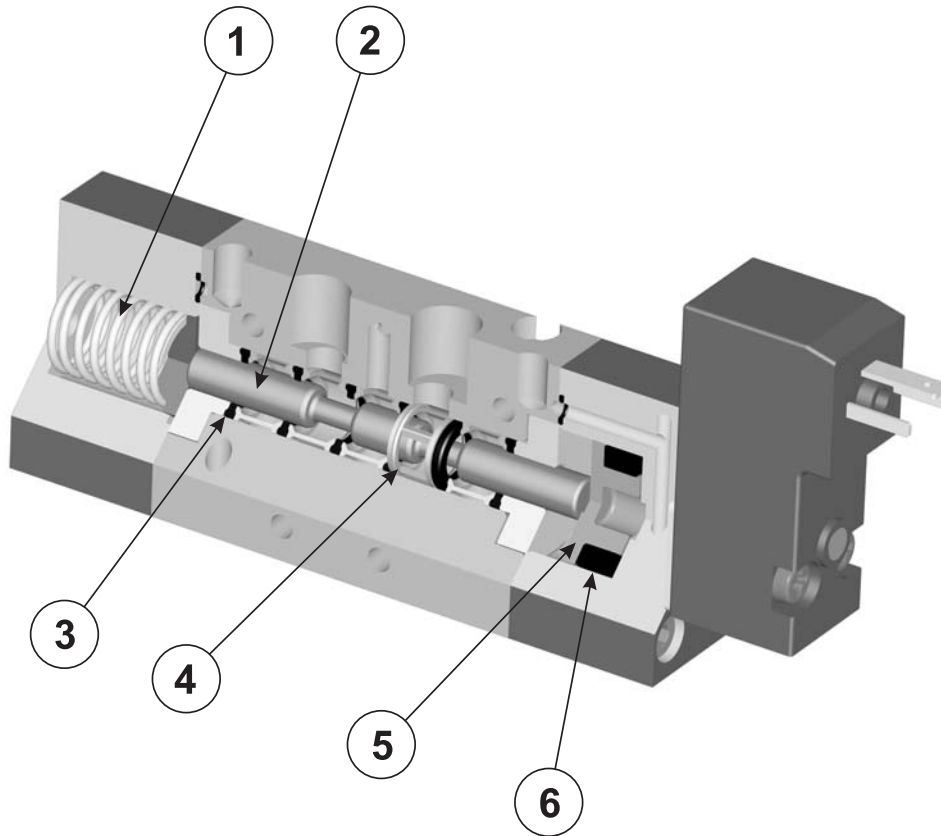
*In the part number replace "xx" with the reference of the solenoid tension.*

12V DC	<b>00</b>
24V DC	<b>01</b>
24V 50/60Hz	<b>02</b>
110V 50/60Hz	<b>03</b>
220V 50/60Hz	<b>04</b>



# ricambi per valvole a spola 18 mm

spare parts for 18 mm spool valves



1. Molla: acciaio [spring: steel]
2. Spola: alluminio nichelato [spool: nickel plated aluminium]
3. Guarnizione cassetto: NBR [seal for spool: NBR]
4. Distanziale cassetto: ottone [brass]
5. Pistone per comando spola: delrin [piston to actuate the spool: delrin]
6. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]

codice kit code of kit	utilizzabile per suitable for		
05.057.2	731 MC	731 MCA	731 ME
	731 MEA	731 ME AS	
05.058.2	731 CC	731 EE	731 EE AS
05.059.2	731 CCD	731 CFP	731 EFP
05.053.2	751 MC	751 ME	751 ME AS
05.054.2	751 CC	751 EE	751 EE AS
05.056.2	751 CCD	751 CFP	751 EFP
05.055.2	7513C CC	7513A CC	7513C EE
	7513A EE	7513C EE AS	7513A EE AS

# sottobasi modulari per valvole 18 mm

multiple sub-bases for 18 mm spool valves



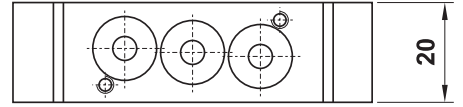
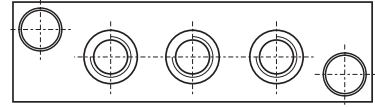
## sottobase sub-base

**CODICE DI ORDINAZIONE**  
ORDER CODE

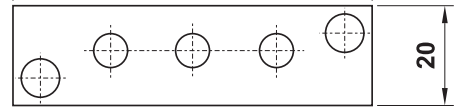
**BM751**



È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.



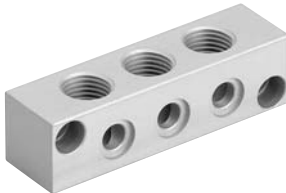
72



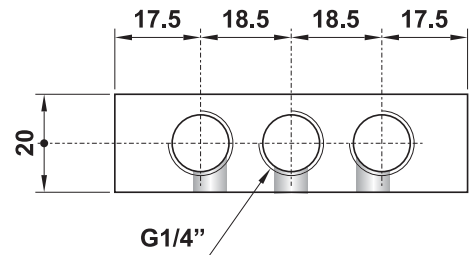
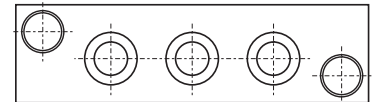
## intermedio intermediate header

**CODICE DI ORDINAZIONE**  
ORDER CODE

**DR751**



È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.



72



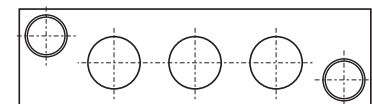
## diaframma blanking piece

**CODICE DI ORDINAZIONE**  
ORDER CODE

**DC751**



È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.



72



# sottobasi modulari per valvole 18 mm

multiple sub-bases for 18 mm spool valves



## terminale sinistro

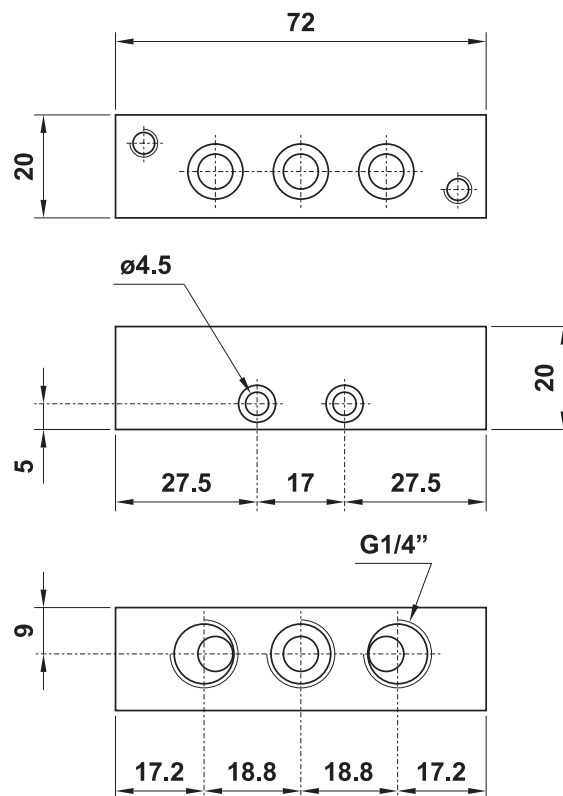
left hand header

CODICE DI ORDINAZIONE  
ORDER CODE

**TS751**



È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.



## terminale destro

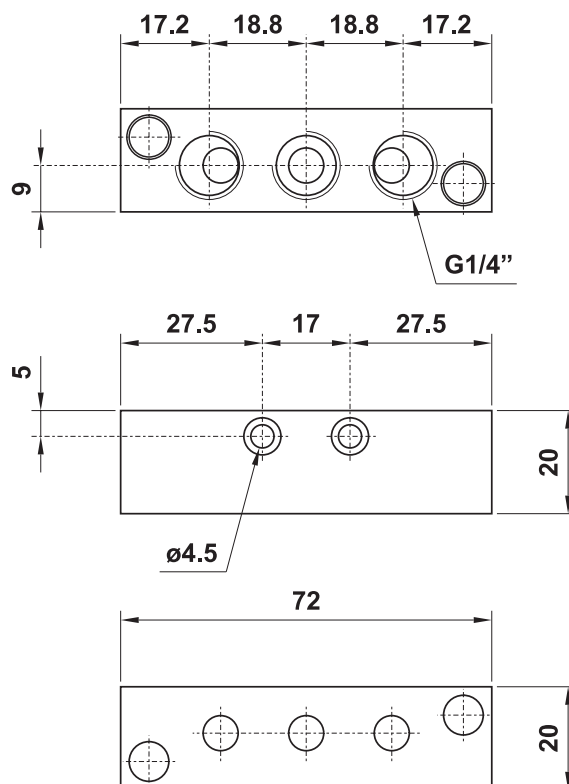
right hand header

CODICE DI ORDINAZIONE  
ORDER CODE

**TD751**



È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.



# sottobasi modulari per valvole 18 mm

multiple sub-bases for 18 mm spool valves

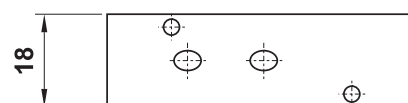
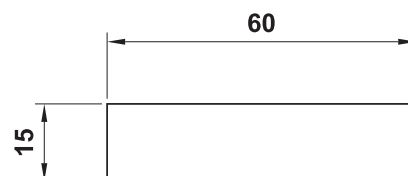
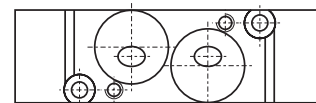
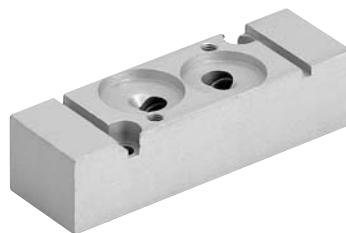


## adattatore 3-5 vie

3-5 way adaptor

CODICE DI ORDINAZIONE  
ORDER CODE

**DD751**



Per montare una valvola a 3 vie su una base per valvole a 5 vie è necessario interporre questo adattatore tra la base e la valvola.

To install a three way valve on a sub-base for five way valves it is necessary to mount this adaptor between the valve and the sub-base.

È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

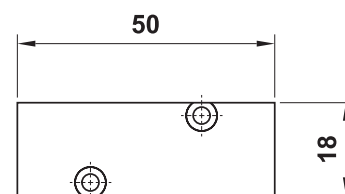
## piastrina di chiusura

blanking plate

CODICE DI ORDINAZIONE  
ORDER CODE

**CS731**

3 vie  
ways



È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

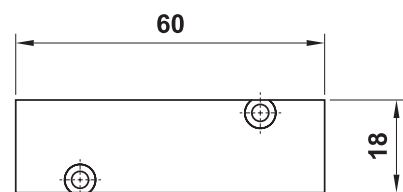
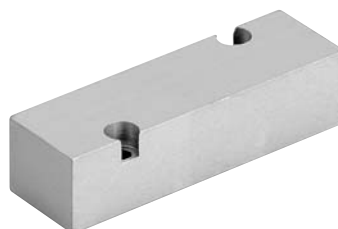
## piastrina di chiusura

blanking plate

CODICE DI ORDINAZIONE  
ORDER CODE

**CS751**

5 vie  
ways



È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

# accessori per sottob. modulari valvole 18 mm

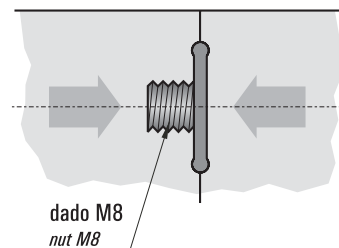
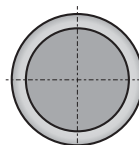
accessories for multiple sub-bases for 18 mm spool valves



## guarnizione diaframma diaphragm gasket

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**DF851**



Da inserirsi tra due sottobasi modulari per bloccare il flusso d'aria e dividere una batteria di valvole in zone alimentabili a pressioni diverse.

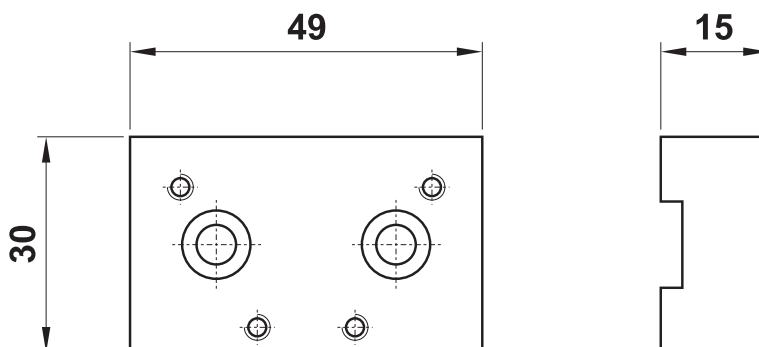
To be inserted between two sub-bases to stop the air flow and divide the manifold into separate zones.

## adattatore per cilindro ISO 6431

interface for cylinder ISO 6431

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**05.035.2**



È utilizzabile per l'installazione di una valvola della serie 751 su un cilindro ISO 6431 dall'alesaggio 32 all'alesaggio 100. Ogni pezzo è venduto con tutti i particolari necessari al suo assemblaggio.

It can be used to install a valve 751 on a cylinder ISO 6431 from bore 32 to bore 100. It is sold with all necessary pieces for installation.

Per l'installazione sul cilindro è necessario innanzi tutto smontare una delle due testate.

For the installation on the cylinder it is necessary to remove one end cap.



# adattatore per profilo omega

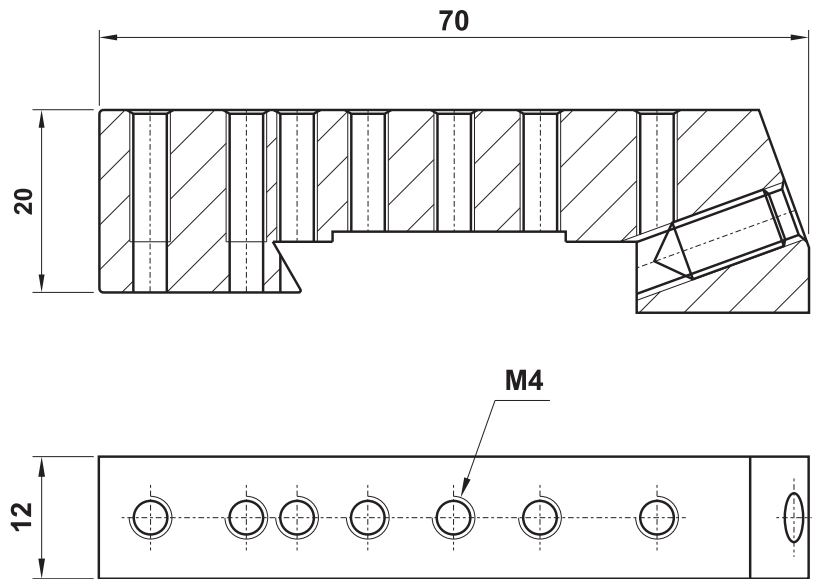
interface for omega-profile



## adattatore per profilo omega interface for omega-profile

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**00.109.2**



È utilizzabile per l'installazione di una sottobase a posti fissi per valvole della serie 751, 731, 521, 522, 851 su una barra a profilo  $\Omega$  (omega).

Per il fissaggio è necessario utilizzare le viti (non incluse nel kit) qui indicate:

- sottobasi posti fissi e modulari per valvole 851: n. 2 viti a brugola zincate bianche M4x40
- sottobasi posti fissi e modulari per valvole 751 e 731: n. 2 viti a brugola zincate bianche M4x20
- sottobasi posti fissi per valvole 521: n. 2 viti a brugola zincate bianche M4x25
- sottobasi posti fissi per valvole 522: n. 2 viti a brugola zincate bianche M4x30

*It can be used to install a manifold for valves 751, 731, 521, 522, 851 on a profile  $\Omega$  (omega).*

*For installation use the following screws (screws are not supplied with the kit):*

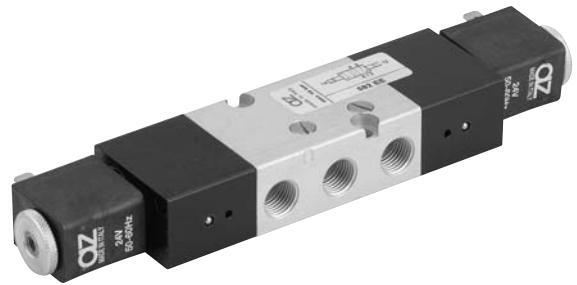
- manifolds and multiple sub-bases for valves 851: n. 2 screws M4x40
- manifolds and multiple sub-bases for valves 751 and 731: n. 2 screws M4x20
- manifolds for valves 521: n. 2 screws M4x25
- manifolds for valves 522: n. 2 screws M4x30

# valvole Namur

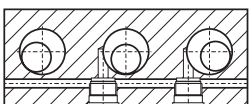
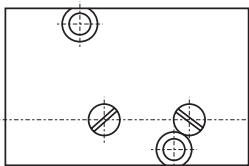
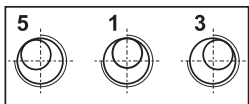
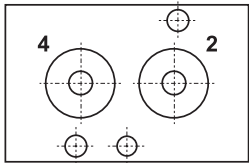
Namur valves



La funzione della valvola può essere variata in qualsiasi momento, secondo lo schema qui riportato, cambiando di posto la guarnizione collocata sotto a uno dei due tappi avvitati nel corpo.  
 The function of the valve can be changed by repositioning the seal situated under one of the two plugs.



## 5 VIE - 5 WAYS

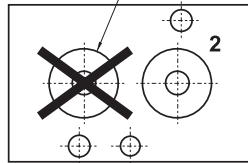


tappo senza guarnizione  
plug without seal

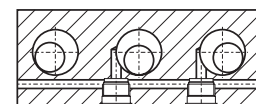
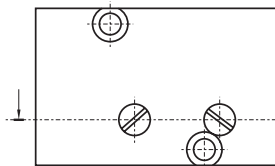
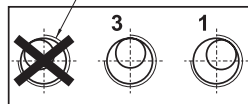
tappo con guarnizione  
plug with seal

## 3 VIE - 3 WAYS

non utilizzato  
unused



non utilizzato  
unused



tappo con guarnizione  
plug with seal

tappo senza guarnizione  
plug without seal

### Materiali

Corpo: alluminio 11S

Molle: INOX

Guarnizioni: NBR

Spola: alluminio nichelato

Parti interne: ottone OT58

### Materials

Body: aluminium 11S

Springs: stainless steel

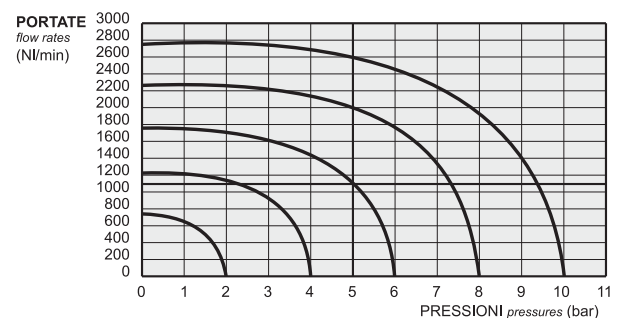
Seals: NBR

Spool: nickel plated aluminium

Internal parts: brass OT58

I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 177-178).

The following listed products are sold without coils, which are bought separately (refer to page 177-178).



### Kit ricambi - spare parts

01.065.2 : per valvole [for valves] 382 MC, 382 ME, 582 MC, 582 ME

01.066.2 : per valvole [for valves] 382 CC, 382 EE, 582 CC, 582 EE

Diametro nominale Nominal orifice		7.5 mm		
Attacchi Ports		G1/4"		
Temperatura di esercizio Temperature range		max +60°C		
Pressione di esercizio Working pressure	el. monost. [electr. monost.]	el. bistabile [electr. bi-stable]	pn. monost. [pneum. monost.]	pn. bistabile [pneum. bist.]
	2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa	0 ... 10 bar 0 ... 1 MPa	0 ... 10 bar 0 ... 1 MPa
Pressione di comando Actuating pressure			pn. monost. [pneum. monost.]	pn. bistabile [pneum. bist.]
			2.5 ... 10 bar 0.25 ... 1 MPa	1 ... 10 bar 0.1 ... 1 MPa
Fluido Fluid		Aria filtrata 50µ con o senza lubrificazione 50µ filtered, lubricated or non lubricated air		

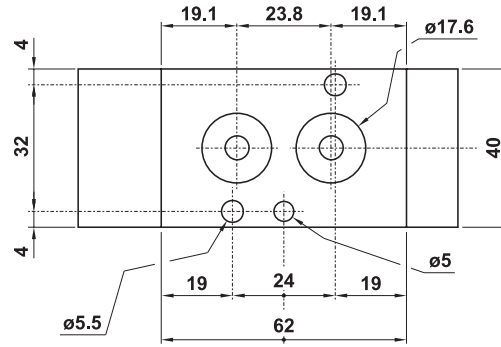
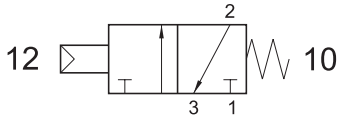
# valvole Namur

Namur valves



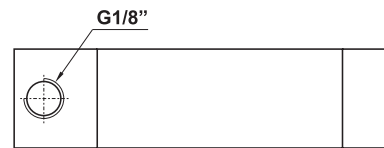
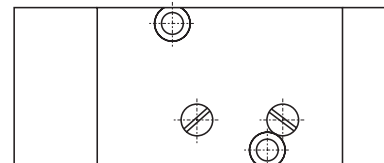
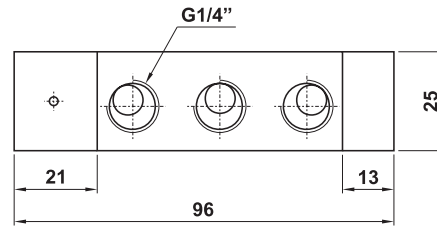
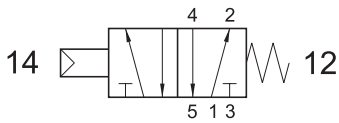
## 382 MC

3/2 NC comando pneumatico - ritorno a molla  
3/2 NC pneumatic pilot - spring return



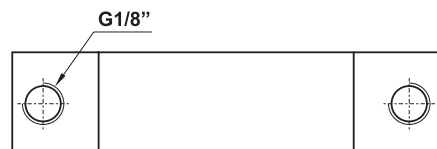
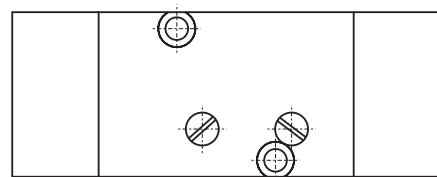
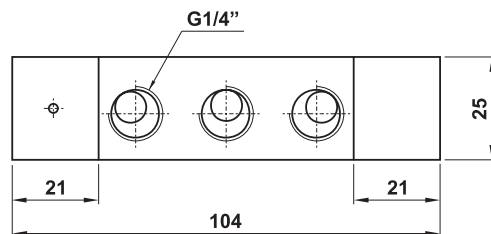
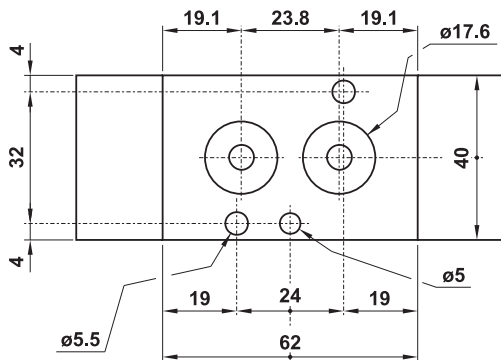
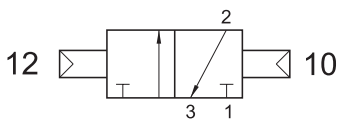
## 582 MC

5/2 comando pneumatico - ritorno a molla  
5/2 pneumatic pilot - spring return



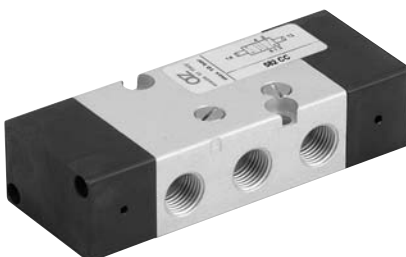
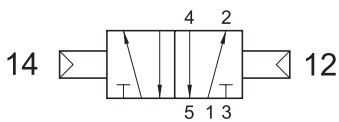
## 382 CC

3/2 doppio comando pneumatico  
3/2 double pneumatic pilot



## 582 CC

5/2 doppio comando pneumatico  
5/2 double pneumatic pilot



# valvole Namur

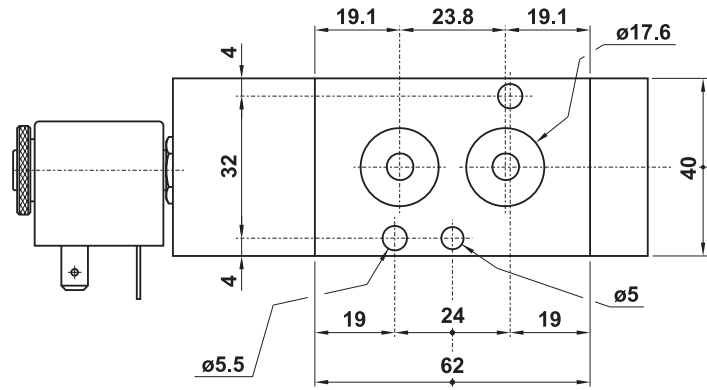
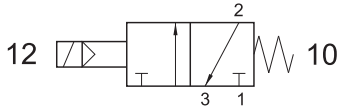
Namur valves



## 382 ME

3/2 NC comando elettrico - ritorno a molla

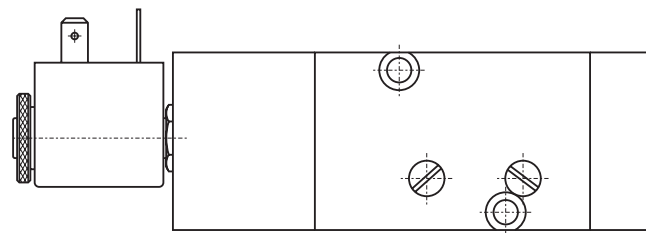
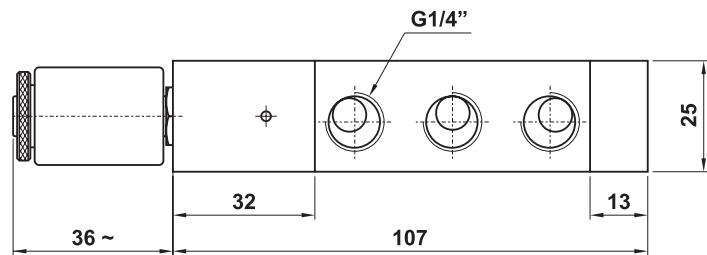
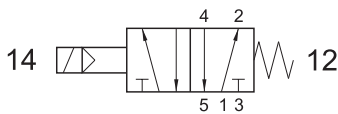
3/2 NC solenoid pilot - spring return



## 582 ME

5/2 comando elettrico - ritorno a molla

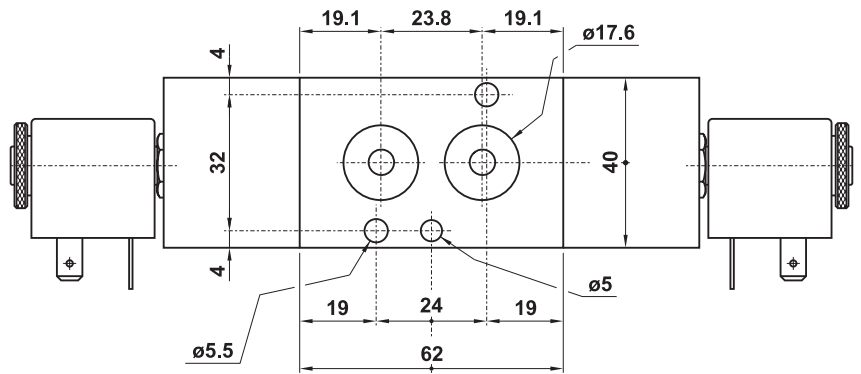
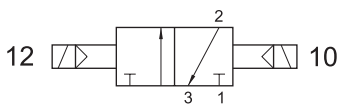
5/2 solenoid pilot - spring return



## 382 EE

3/2 doppio comando elettrico

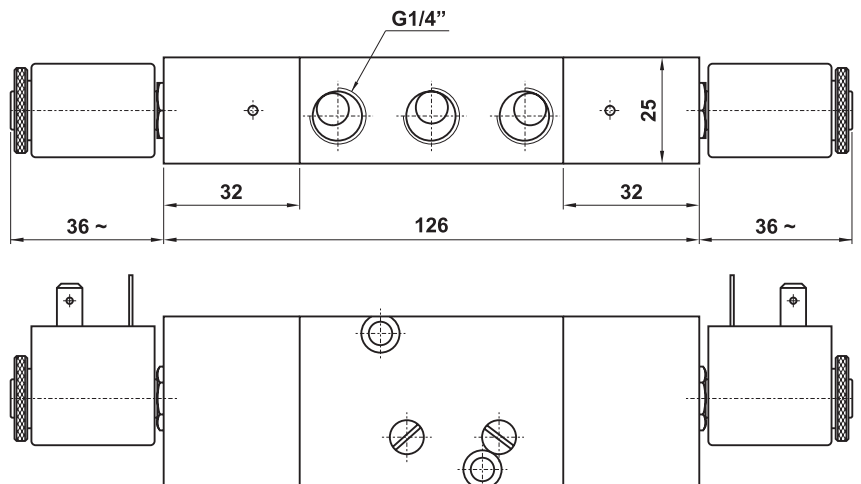
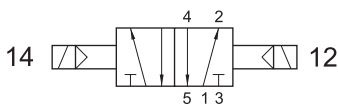
3/2 double solenoid pilot



## 582 EE

5/2 doppio comando elettrico

5/2 double solenoid pilot



# bobine e connettori 22 mm

22 mm coils and connectors



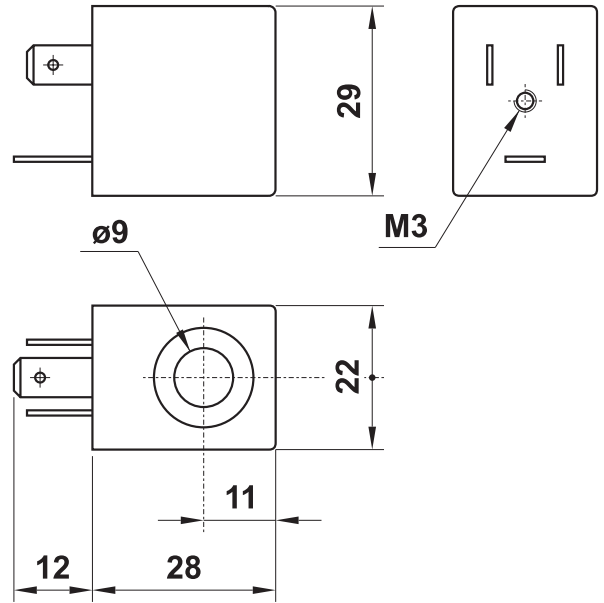
22 mm



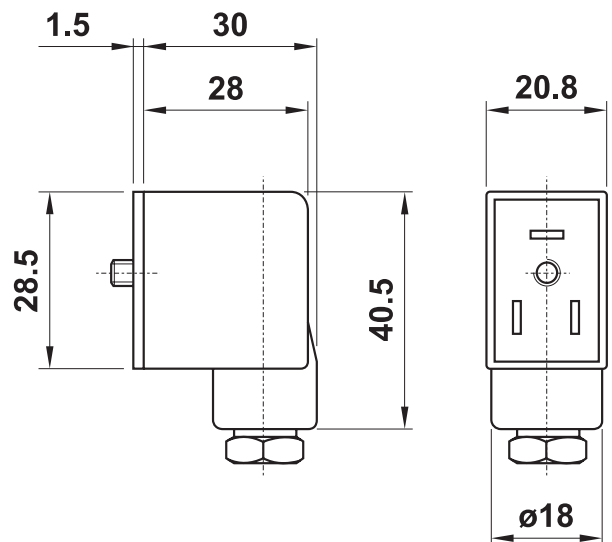
temperatura max di esercizio	<b>+50°C</b>	<i>max working temperature</i>
inserimento	<b>ED 100%</b>	<i>duty cycle</i>
protezione con connettore correttamente montato	<b>IP 65</b>	<i>protection with connector correctly mounted</i>
tolleranza di tensione	<b>±10%</b>	<i>tension tolerance</i>

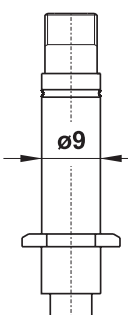
- a richiesta basso assorbimento 1.5W  
*low consumption (1.5W) on request*

codice <i>code</i>	tensione <i>tension</i>	consumo - power	
		a regime <i>rated</i>	di spunto <i>inrush</i>
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 <i>code</i>	colore <i>colour</i>	cavo <i>cable</i>	tipo <i>type</i>
00.197.0	nero <i>black</i>	PG09	normale <i>standard</i>
00.344.0	trasparente <i>transparent</i>	PG09	con LED 24V <i>with LED 24V</i>
00.345.0	trasparente <i>transparent</i>	PG09	con LED 24V e VDR <i>with LED 24V and VDR</i>
00.346.0	trasparente <i>transparent</i>	PG09	con LED 115V <i>with LED 115V</i>
00.347.0	trasparente <i>transparent</i>	PG09	con LED 115V e VDR <i>with LED 115V and VDR</i>
00.394.0	trasparente <i>transparent</i>	PG09	con LED 230V <i>with LED 230V</i>
00.395.0	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*

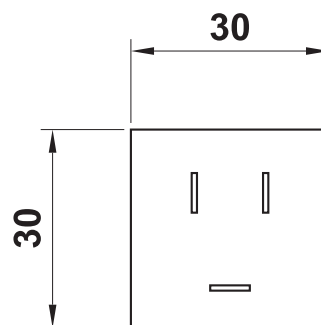
**NC : 00.088.0**  
**NA (NO) : 00.306.0**

# bobine e connettori 30 mm

30 mm coils and connectors

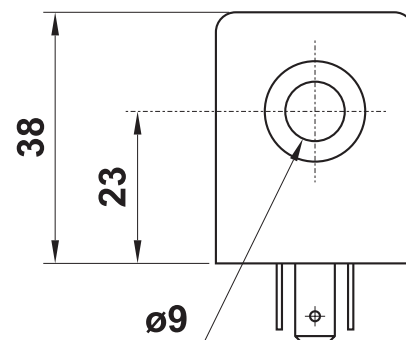


30 mm



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

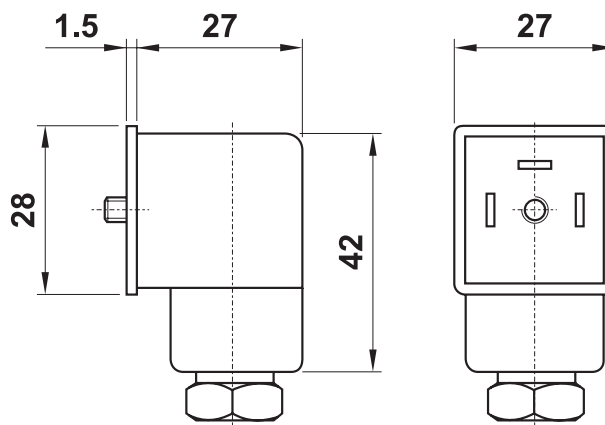
codice code	tensione tension	consumo - power	
		a regime rated	di spunto inrush
00.258.0	24V DC	2W	
00.259.0	24V 50/60Hz	5VA	9VA
00.260.0	110V 50/60Hz	5VA	9VA
00.261.0	220V 50/60Hz	5VA	9VA

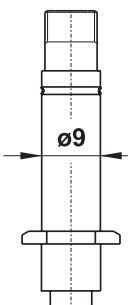


Per montare questo tipo di bobine sulle valvole Namur occorre acquistare il distanziale **01.055.2** che deve essere montato sotto la valvola, in modo da alzarla creando lo spazio necessario alla bobina da 30 mm.

The adaptor kit **01.055.2** is necessary to assemble this coil on Namur valves.

codice code	colore colour	cavo cable	tipo type
00.251.0	nero black	PG09	normale standard
00.348.0	trasparente transparent	PG09	con LED 24V with LED 24V
00.349.0	trasparente transparent	PG09	con LED 24V e VDR with LED 24V and VDR
00.350.0	trasparente transparent	PG09	con LED 115V with LED 115V
00.351.0	trasparente transparent	PG09	con LED 115V e VDR with LED 115V and VDR
00.396.0	trasparente transparent	PG09	con LED 230V with LED 230V
00.397.0	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

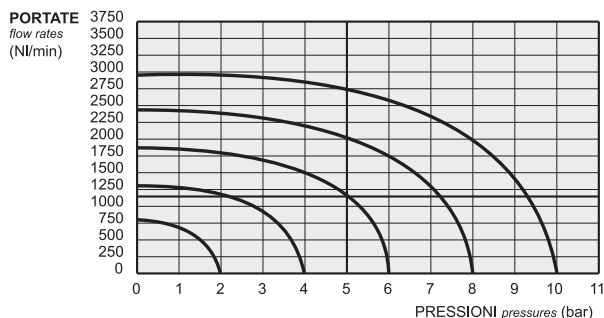
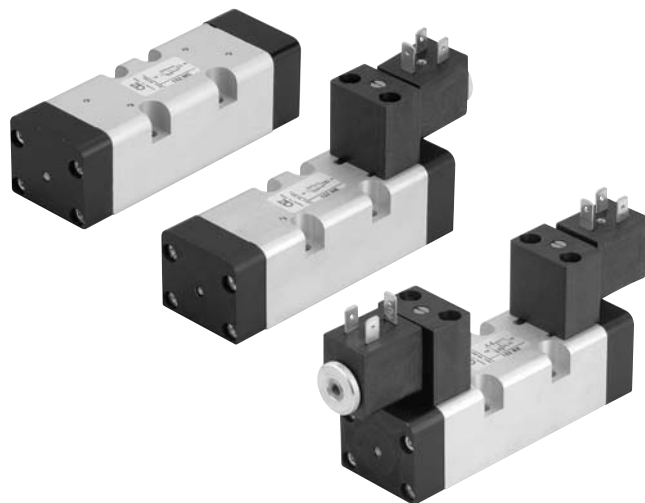
**NC : 00.088.0**  
**NA (NO) : 00.306.0**

# valvole ISO 5599/1 taglia 1

ISO 5599/1 valves - size 1



- Valvole a spola 5/2-5/3  
*5/2-5/3 spool valves*
- Montaggio su basi modulari o a posti fissi  
*Installation on manifolds or multiple sub-bases*
- Azionatore manuale bistabile sull'elettropilota  
*Detented manual override on the solenoid pilot*
- Riarmo manuale della valvola  
*Manual reset*



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 184-185).  
*The following listed products are sold without coils, which are bought separately (refer to page 184-185).*

## Tempi di risposta - response times

	az. pneumatico <i>pneumatic pilot</i>	az. elettrico <i>solenoid pilot</i>
monostabile <i>mono-stable</i>	TRA (14): 12 ms TRR (12): 30 ms	TRA (14): 24 ms TRR (12): 50 ms
bistabile <i>bi-stable</i>	TRA (14): 20 ms TRR (12): 20 ms	TRA (14): 80 ms TRR (12): 80 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*

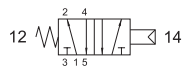
Diametro nominale <i>Nominal orifice</i>	7.5 mm		
Temperatura di esercizio <i>Temperature range</i>	max +60°C		
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [ <i>monost. internal air supply</i> ]	al. interna bist. [ <i>bi-stable internal air supply</i> ]	alim. separata [ <i>separate 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 ISO 5599/1 taglia 1

ISO 5599/1 valves - size 1



## 152 MC



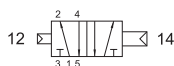
5/2 comando pneumatico - ritorno a molla  
5/2 pneumatic pilot - spring return

## 152 CC



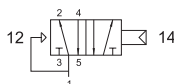
5/2 doppio comando pneumatico  
5/2 double pneumatic pilot

## 152 CCD



5/2 doppio comando pneumatico - con differenziale  
5/2 double pneumatic pilot - with differential

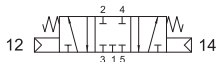
## 152 CFP



5/2 comando pneumatico - ritorno a molla pneumatica  
5/2 pneumatic pilot - pneumatic spring return

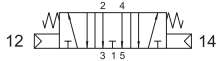
## 153C CC

centri chiusi  
closed centres



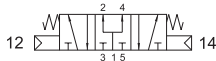
## 153A CC

centri aperti  
open centres

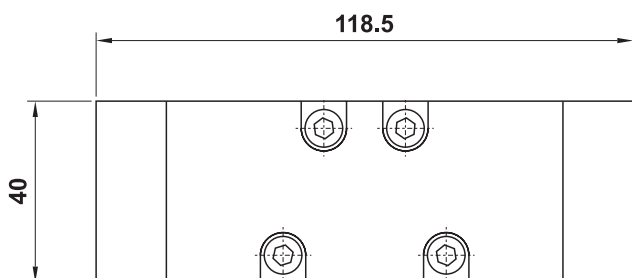
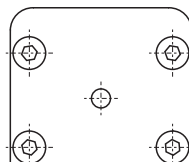
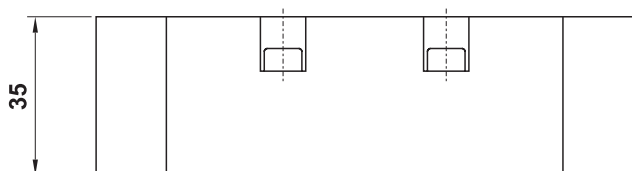


## 153P CC

centri in pressione  
pressurized centres



5/3 doppio comando pneumatico  
5/3 double pneumatic pilot



# valvole ISO 5599/1 taglia 1

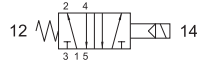
ISO 5599/1 valves - size 1



## 152 ME

5/2 comando elettrico - ritorno a molla

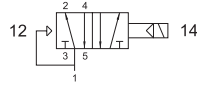
5/2 solenoid pilot - spring return



## 152 EFP

5/2 comando elettrico - ritorno a molla pneumatica

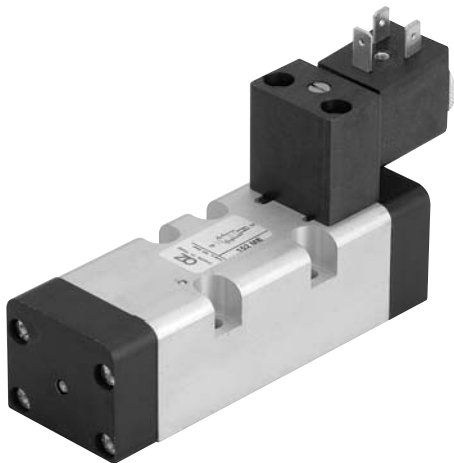
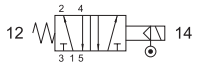
5/2 solenoid pilot - pneumatic spring return



## 152 ME AS

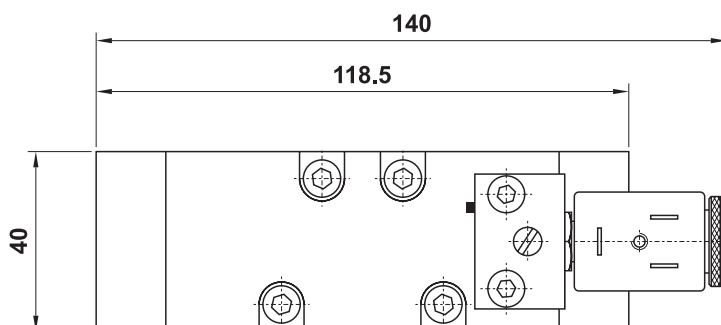
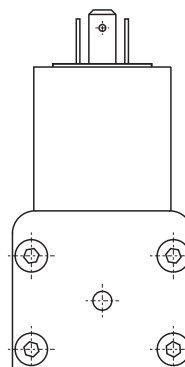
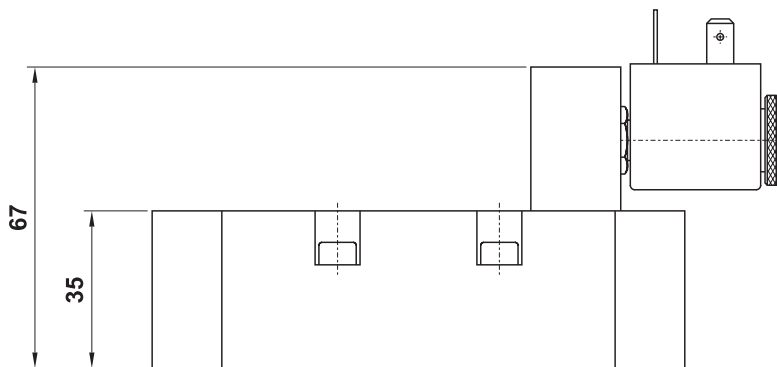
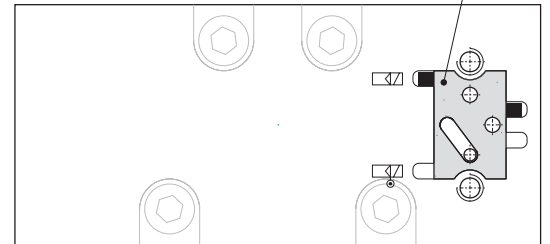
5/2 comando elettrico alimentazione separata - ritorno a molla

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



Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.

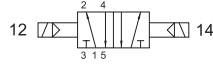


# valvole ISO 5599/1 taglia 1

ISO 5599/1 valves - size 1

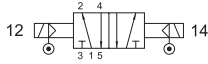


## 152 EE

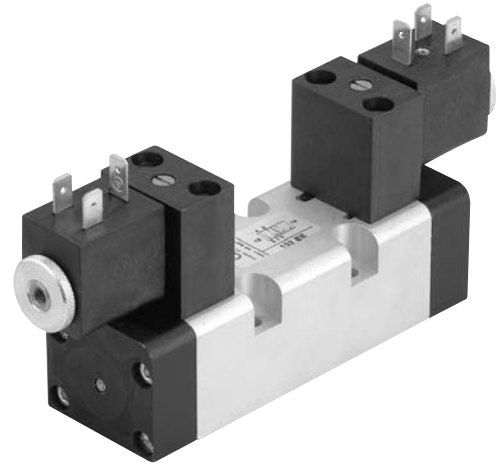


5/2 doppio comando elettrico  
5/2 double solenoid pilot

## 152 EE AS

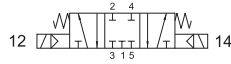


5/2 doppio comando elettrico alimentazione separata  
5/2 double solenoid pilot with separate air supply



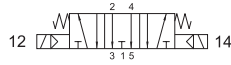
## 153C EE

centri chiusi  
closed centres



## 153A EE

centri aperti  
open centres



## 153P EE

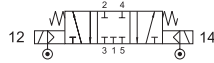
centri in pressione  
pressurized centres



5/3 doppio comando elettrico  
5/3 double solenoid pilot

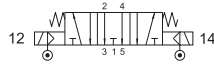
## 153C EE AS

centri chiusi  
closed centres



## 153A EE AS

centri aperti  
open centres



## 153P EE AS

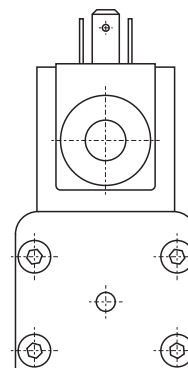
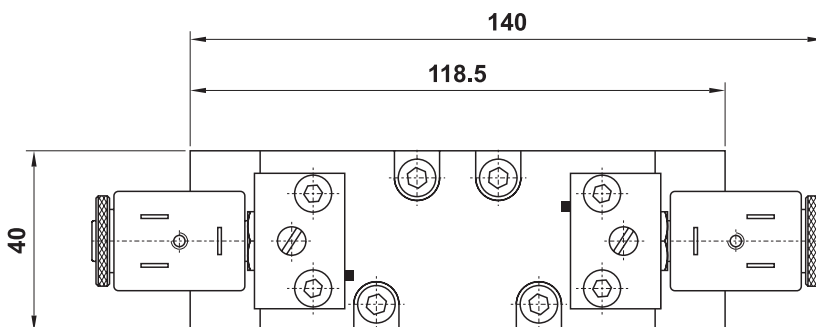
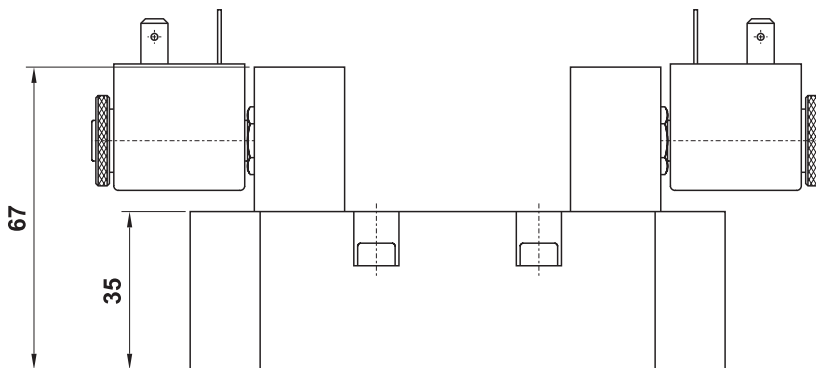
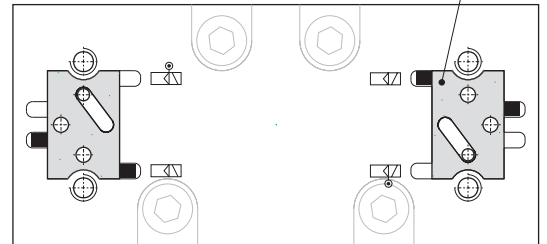
centri in pressione  
pressurized centres



5/3 doppio comando elettrico alimentazione separata  
5/3 double solenoid pilot with separate air supply

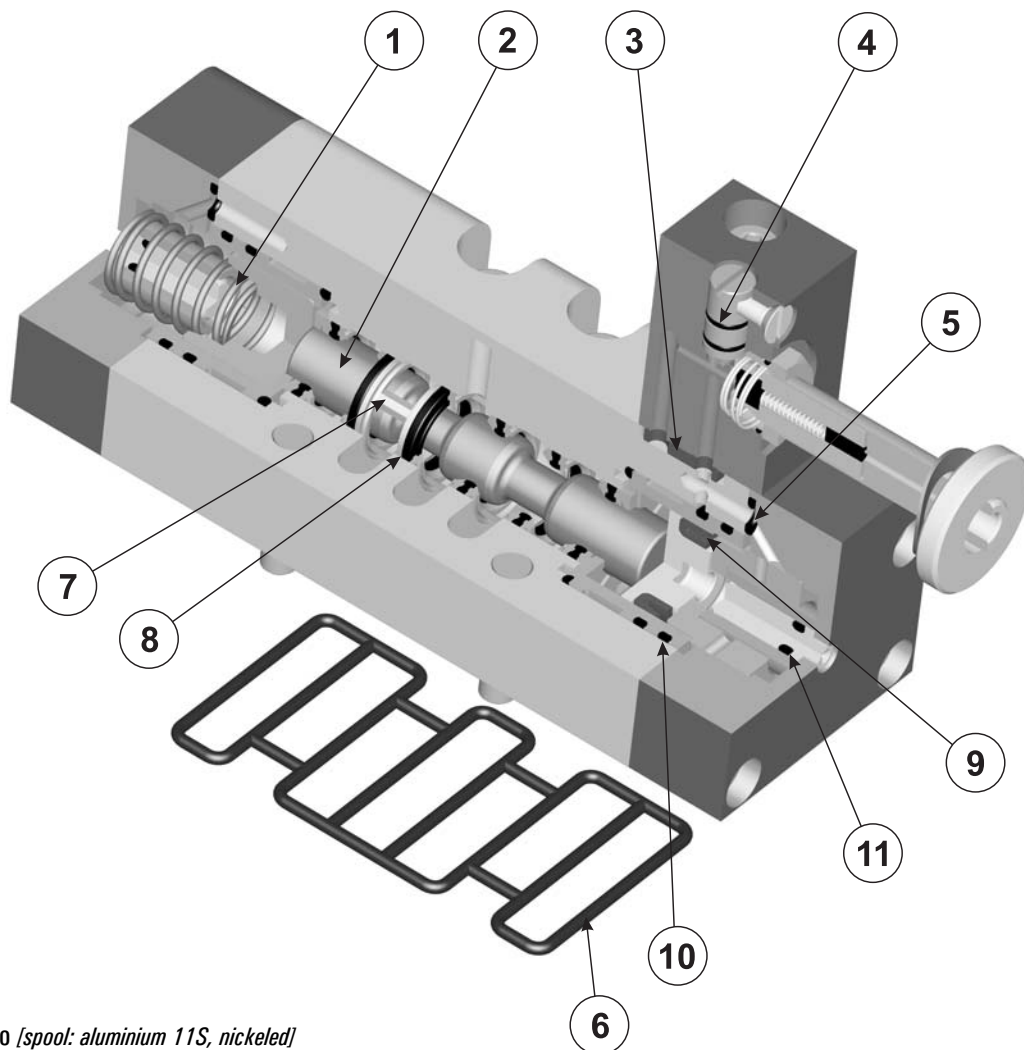
Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.



# ricambi per valvole a spola ISO 1

spare parts for ISO 1 spool valves



1. Molla: acciaio [spring: steel]
2. Spola: alluminio 11S nichelato [spool: aluminium 11S, nickelated]
3. Guarnizione multifunzione: NBR [multifunction seal: NBR]
4. Guarnizione O-Ring 4x1: NBR
5. Guarnizione O-Ring: NBR
6. Guarnizione corpo ISO 1: NBR [seal for valve body ISO 1: NBR]
7. Distanziale cassetto: ottone [brass]
8. Guarnizione cassetto: NBR [seal for spool: NBR]
9. Guarnizione DE per pistone: NBR [seal DE for piston: NBR]
10. Guarnizione O-Ring: NBR
11. Guarnizione O-Ring: NBR

codice kit code of kit	utilizzabile per suitable for		
00.048.2	152 CC	152 EE	152 EE AS
	153C CC	153A CC	153P CC
	153C EE	153A EE	153P EE
	153C EE AS	153A EE AS	153P EE AS
00.047.2	152 MC	152 ME	152 ME AS
00.049.2	152 CCD	152 CFP	152 EFP

# bobine e connettori 22 mm

22 mm coils and connectors



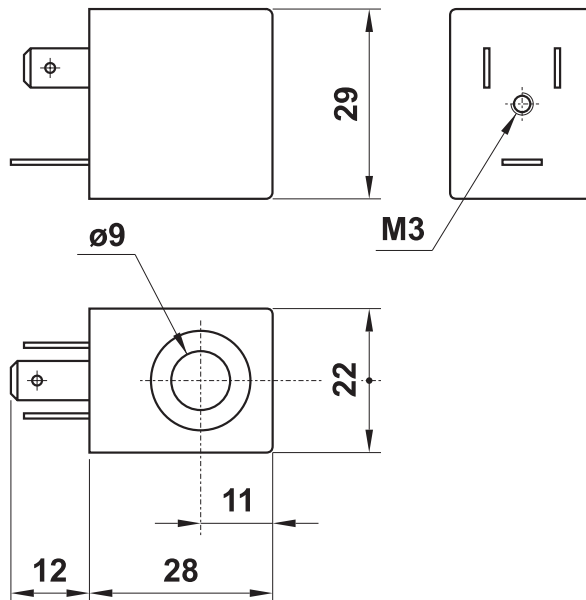
22 mm



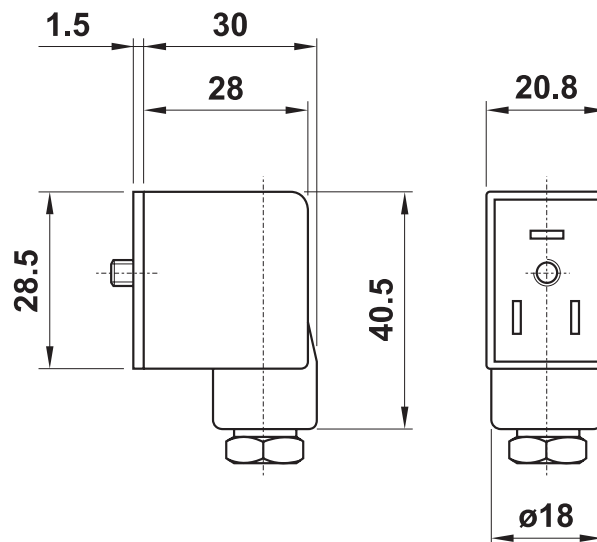
temperatura max di esercizio	<b>+50°C</b>	<i>max working temperature</i>
inserimento	<b>ED 100%</b>	<i>duty cycle</i>
protezione con connettore correttamente montato	<b>IP 65</b>	<i>protection with connector correctly mounted</i>
tolleranza di tensione	<b>±10%</b>	<i>tension tolerance</i>

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

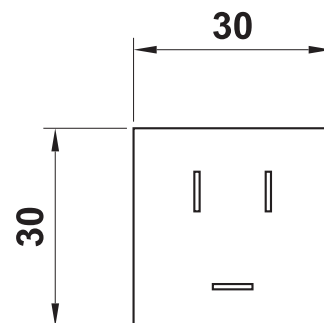
# bobine e connettori 30 mm

30 mm coils and connectors

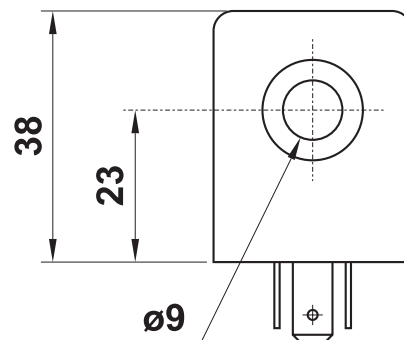


30 mm

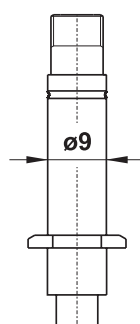
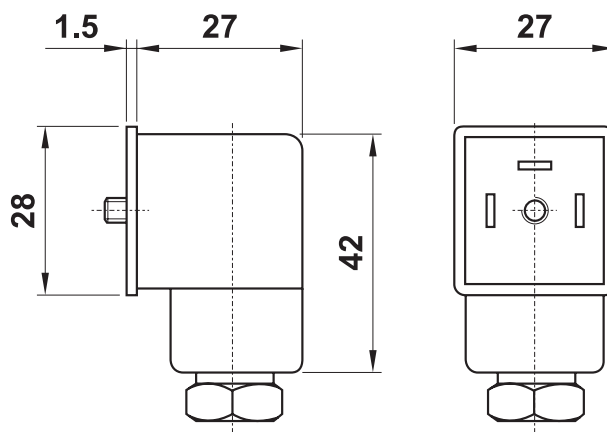
temperatura max di esercizio	+50°C	max working temperature
inserimento	ED 100%	duty cycle
protezione con connettore correttamente montato	IP 65	protection with connector correctly mounted
tolleranza di tensione	±10%	tension tolerance



codice code	tensione tension	consumo - power	
		a regime rated	di spunto inrush
00.258.0	24V DC	2W	
00.259.0	24V 50/60Hz	5VA	9VA
00.260.0	110V 50/60Hz	5VA	9VA
00.261.0	220V 50/60Hz	5VA	9VA



codice code	colore colour	cavo cable	tipo type
00.251.0	nero black	PG09	normale standard
00.348.0	trasparente transparent	PG09	con LED 24V with LED 24V
00.349.0	trasparente transparent	PG09	con LED 24V e VDR with LED 24V and VDR
00.350.0	trasparente transparent	PG09	con LED 115V with LED 115V
00.351.0	trasparente transparent	PG09	con LED 115V e VDR with LED 115V and VDR
00.396.0	trasparente transparent	PG09	con LED 230V with LED 230V
00.397.0	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

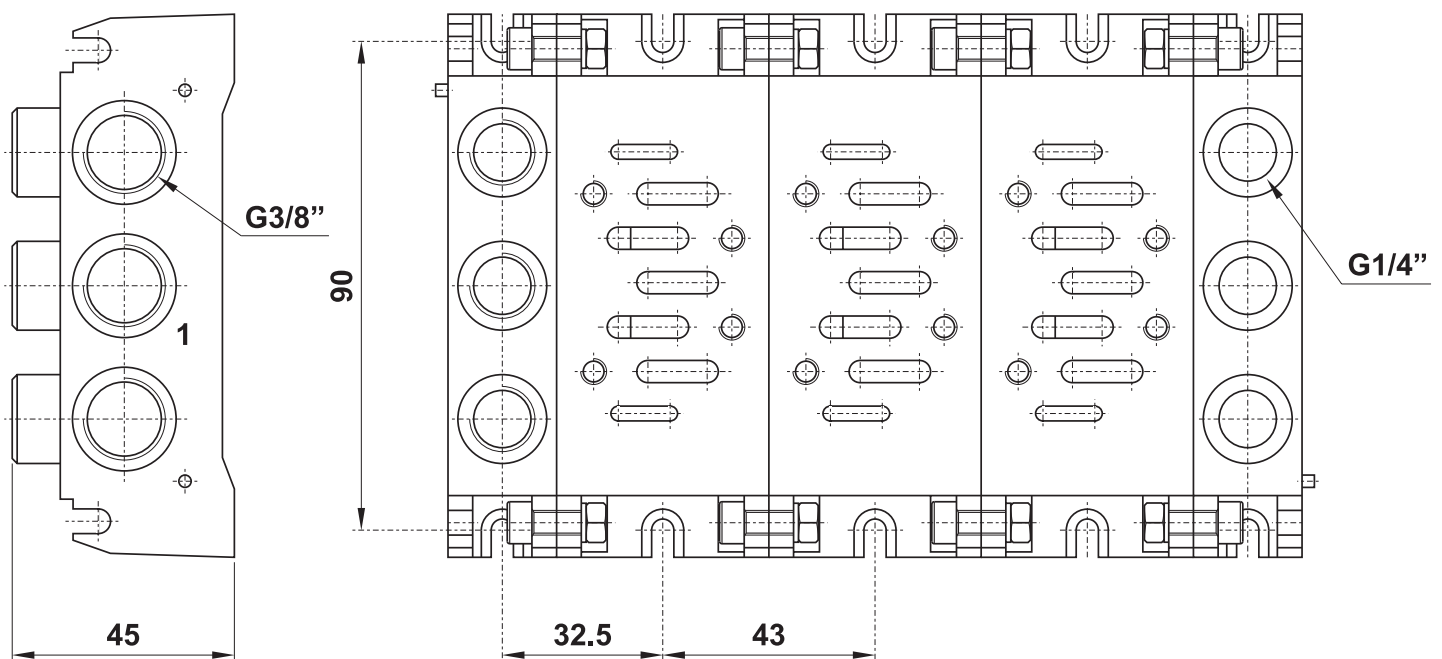
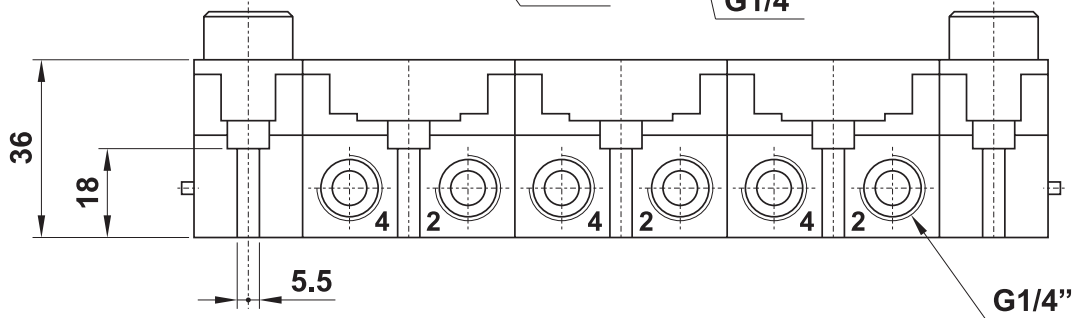
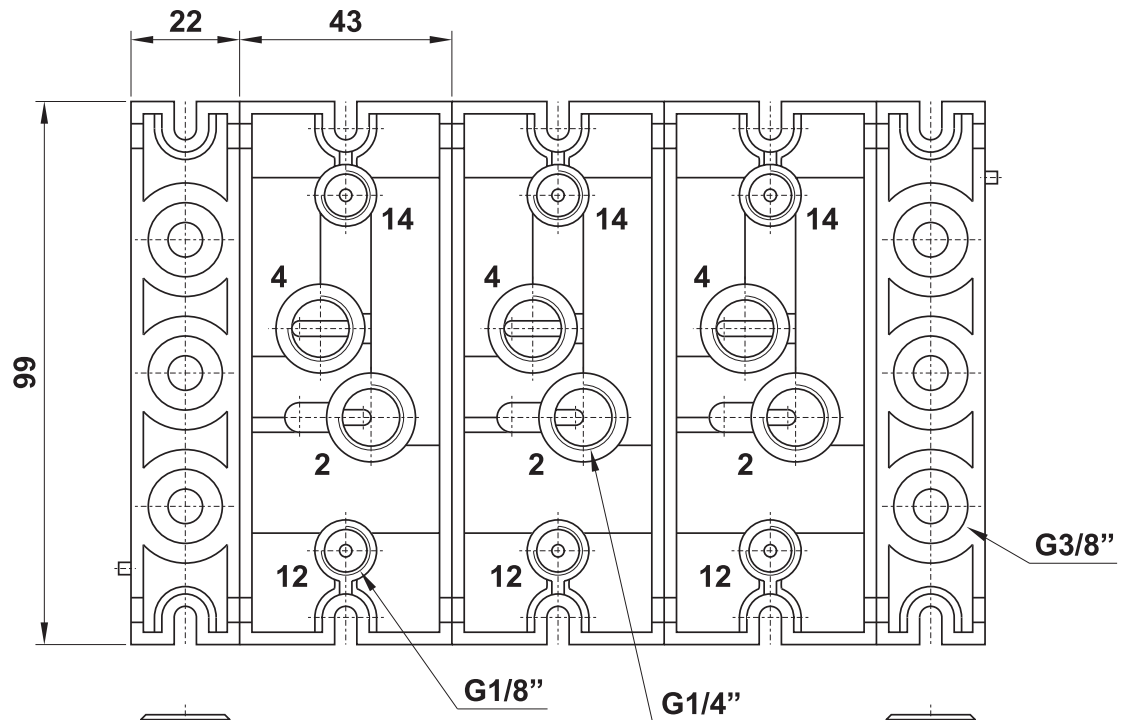
NC : 00.088.0  
NA (NO) : 00.306.0

# sottobasi modulari per valvole ISO 1

multiple sub-bases for ISO 1 valves



1



# sottobasi modulari per valvole ISO 1

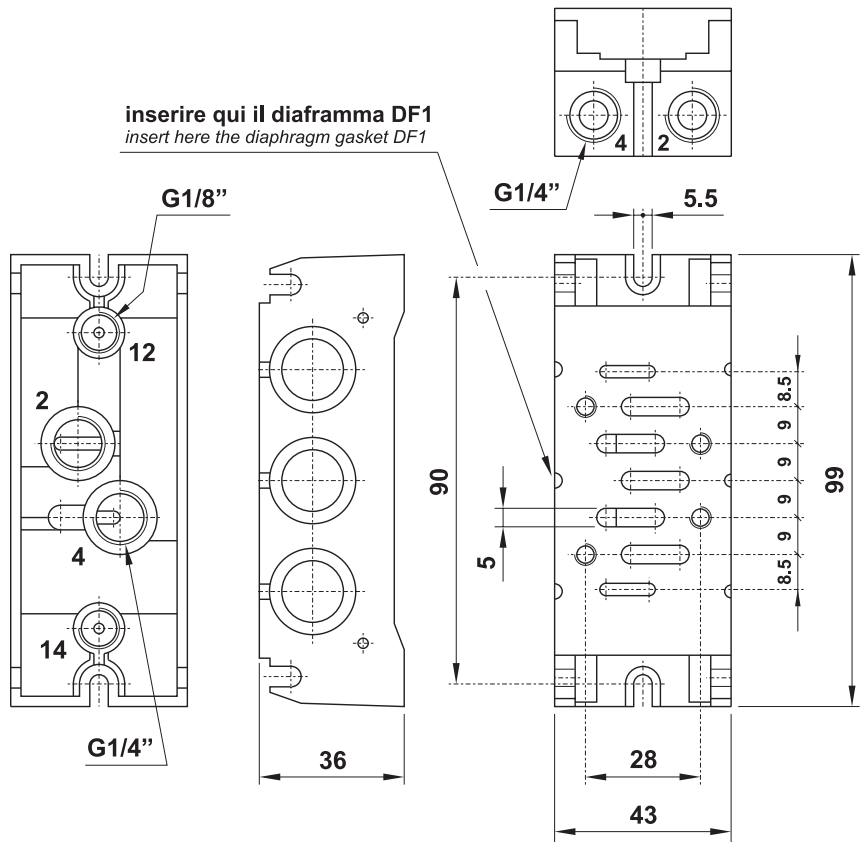
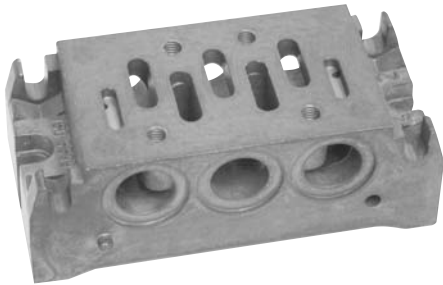
multiple sub-bases for ISO 1 valves



## sottobase modulare modular sub-base

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**MLD1**

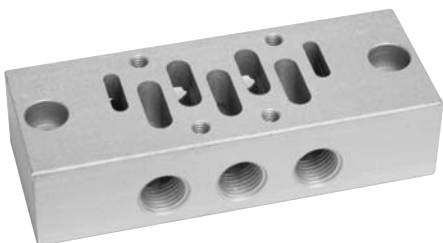


È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

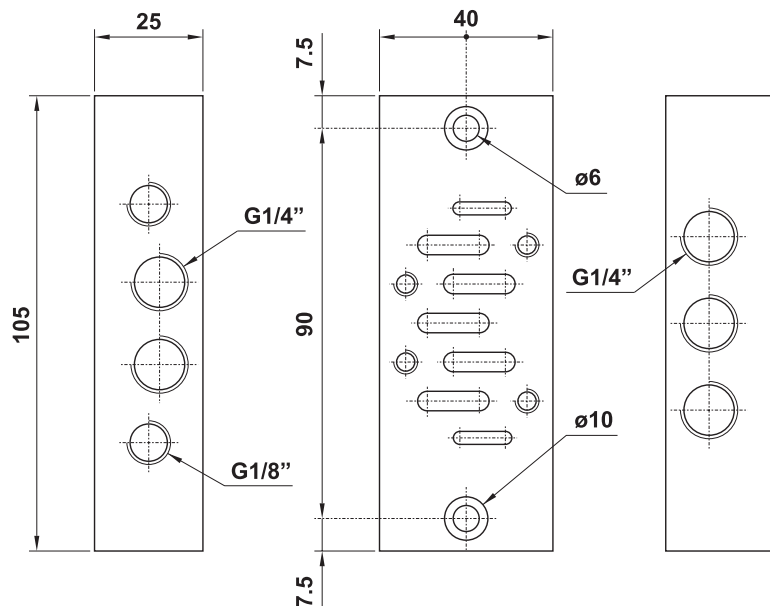
## sottobase singola individual sub-base

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**SL1**



**06.001.2** : Versione adattata per installazione su cilindro ISO 6431, fornita in kit con tutti i particolari necessari al suo assemblaggio.  
**06.001.2** : Adapted version for installation on cylinder ISO 6431. It is sold in kit with all necessary pieces for installation.



È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

# sottobasi modulari per valvole ISO 1

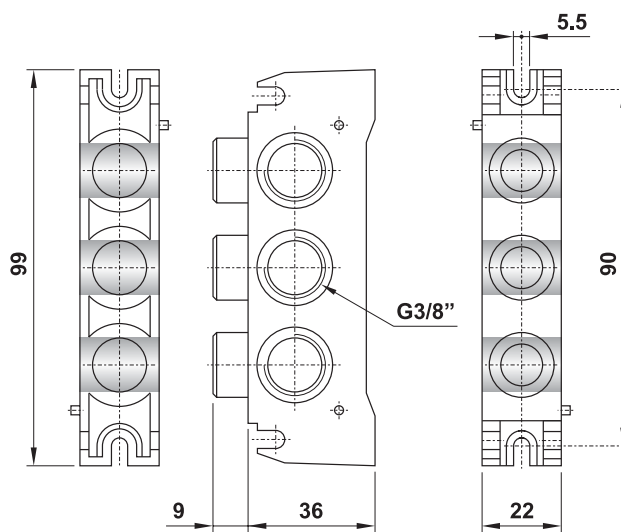
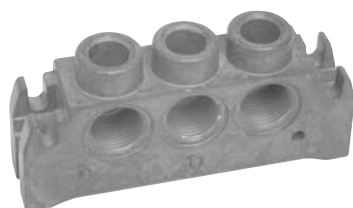
multiple sub-bases for ISO 1 valves



## terminale di ingresso in asse side entry header

CODICE DI ORDINAZIONE  
ORDER CODE

TL1

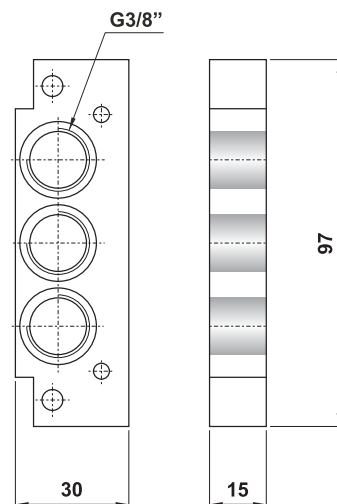


È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

## terminale di ingresso in asse side entry header

CODICE DI ORDINAZIONE  
ORDER CODE

TP1



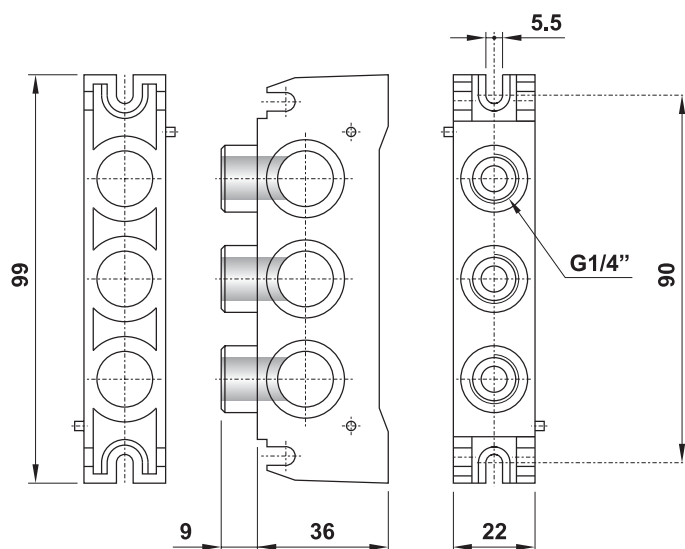
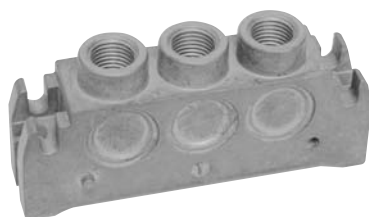
È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

## terminale di ingresso superiore top entry header

CODICE DI ORDINAZIONE  
ORDER CODE

TA1

utilizzabile anche come intermedio  
it can be used also as intermediate header



È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

# sottobasi modulari per valvole ISO 1

multiple sub-bases for ISO 1 valves



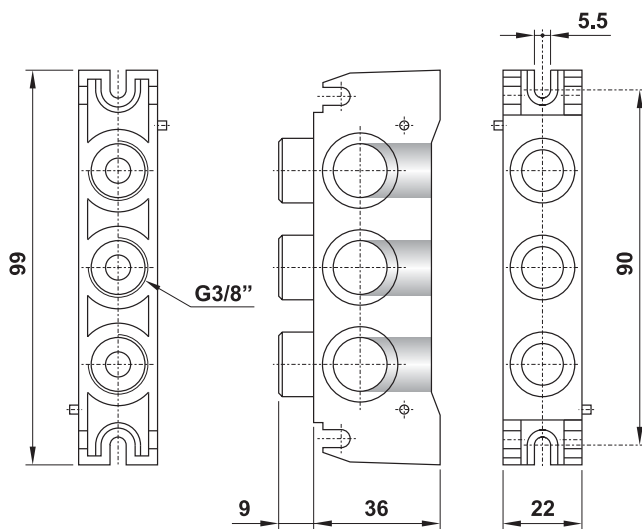
## terminale di ingresso inferiore

bottom entry header

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**TB1**

utilizzabile anche come intermedio  
it can be used also as intermediate header



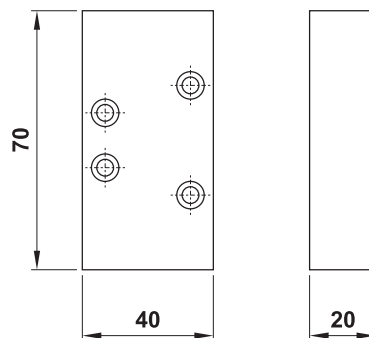
È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

## piastrina di chiusura

blanking plate

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**TC1**



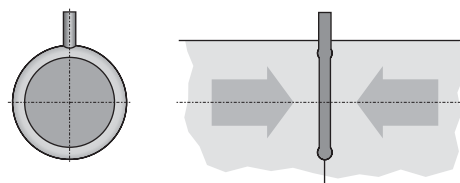
È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

## guarnizione diaframma

diaphragm gasket

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**DF1**



Da inserirsi tra due sottobasi modulari per bloccare il flusso d'aria e dividere una batteria di valvole in zone alimentabili a pressioni diverse.

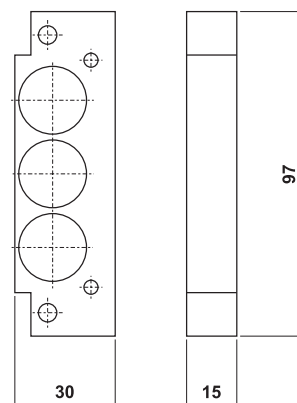
To be inserted between two sub-bases to stop the air flow and divide the manifold into separate zones.

## terminale cieco

blind header

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**TPC1**



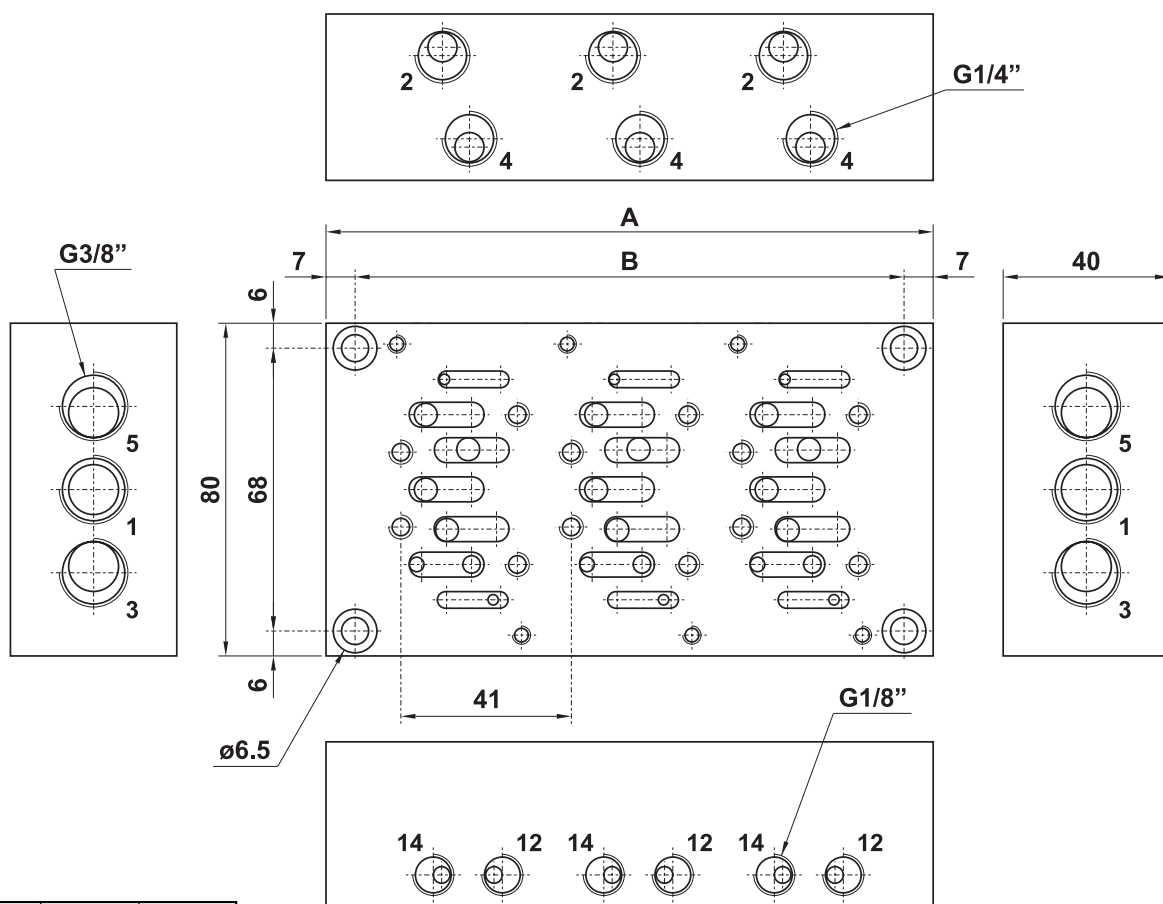
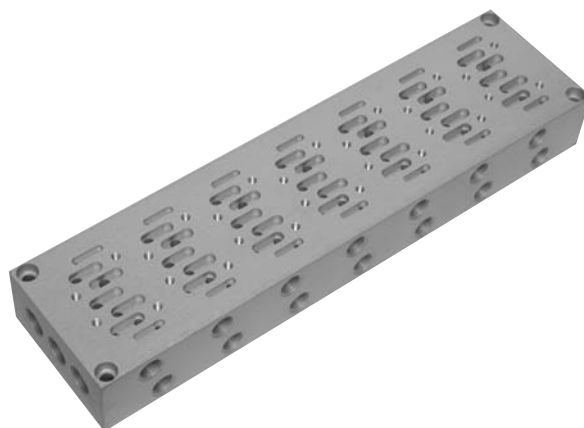
È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

# sottobasi a posti fissi per valvole ISO 1

manifolds for ISO 1 valves



- Scarichi convogliati  
*Common exhaust*
- Pilotaggi separati per ogni valvola  
*Individual pilot for each valve*
- Materiale: alluminio anodizzato  
*Material: aluminium (anodize treatment)*
- Sottobasi speciali a richiesta  
*Special manifolds on request*



modello model	nr. posizioni no. stations	A	B
00.232.1	2	105	91
00.233.1	3	146	132
00.234.1	4	187	173
00.235.1	5	228	214
00.236.1	6	269	255
00.237.1	7	310	296

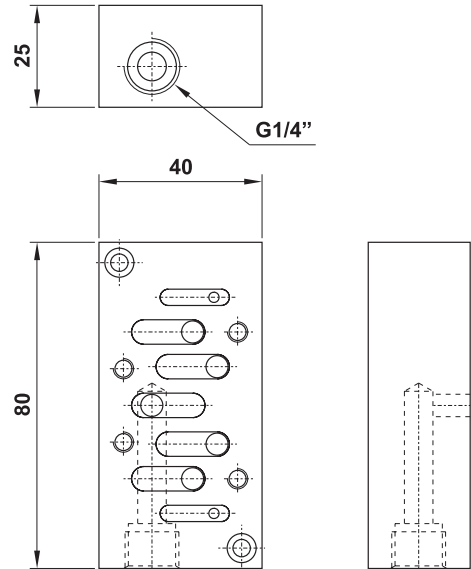
# accessori per basi a posti fissi ISO 1

accessories for manifolds ISO 1



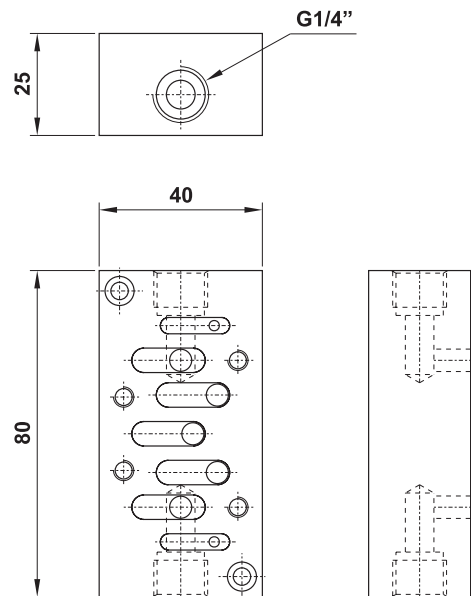
**adattatore per entrata separata**  
*adapting plate for separate air inlet*

**00.085.2**



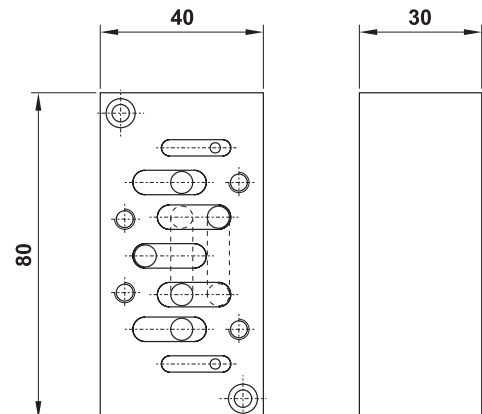
**adattatore per scarichi separati**  
*adapting plate for separate air exhaust*

**00.086.2**



**adattatore per inversione uscite**  
*adapting plate for swapped air outlets*

**00.087.2**



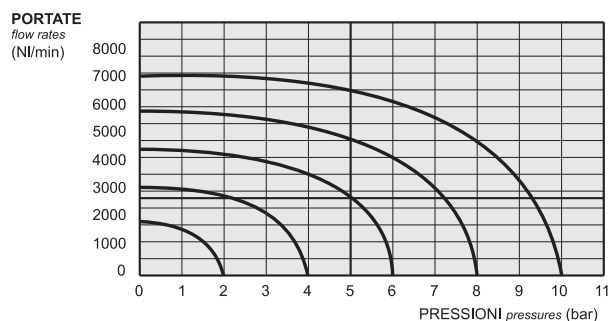
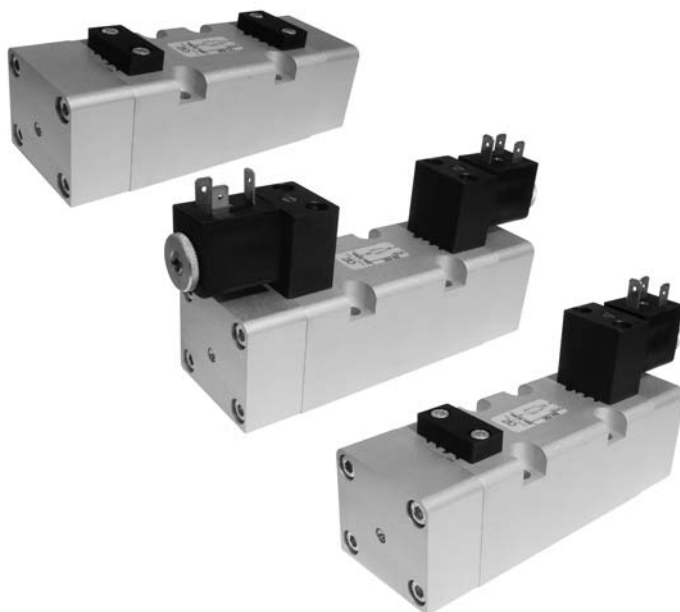
Ogni pezzo è venduto in kit con i particolari necessari al suo assemblaggio.  
*Each element is sold in kit with all necessary pieces for installation.*

# valvole ISO 5599/1 taglia 2

ISO 5599/1 valves - size 2



- Valvole a spola 5/2-5/3  
*5/2-5/3 spool valves*
- Montaggio su basi modulari  
*Installation on multiple sub-bases*
- Azionatore manuale bistabile sull'elettropilota  
*Detented manual override on the solenoid pilot*
- Riarmo manuale della valvola  
*Manual reset*



I prodotti di seguito indicati sono venduti senza bobine, da acquistarsi separatamente (vedi pag. 184-185).  
The following listed products are sold without coils, which are bought separately (refer to page 184-185).

## Tempi di risposta - response times

	az. pneumatico <i>pneumatic pilot</i>	az. elettrico <i>solenoid pilot</i>
monostabile <i>mono-stable</i>	TRA (14): 24 ms TRR (12): 43 ms	TRA (14): 39 ms TRR (12): 60 ms
bistabile <i>bi-stable</i>	TRA (14): 30 ms TRR (12): 30 ms	TRA (14): 90 ms TRR (12): 90 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

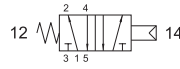
Diametro nominale <i>Nominal orifice</i>	9 mm		
Temperatura di esercizio <i>Temperature range</i>	max +60°C		
Pressione di esercizio <i>Working pressure</i>	al. interna monost. [monost. internal air supply]	al. interna bist. [bi-stable internal air supply]	alim. separata [separate air supply]
	2.5 ... 10 bar 0.25 ... 1 MPa	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 [mono-stable]		bistabile [bi-stable]
	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 50µ filtered, lubricated or non lubricated air		

# valvole ISO 5599/1 taglia 2

ISO 5599/1 valves - size 2

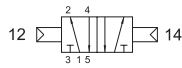


## 252 MC



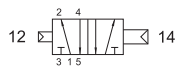
5/2 comando pneumatico - ritorno a molla  
5/2 pneumatic pilot - spring return

## 252 CC



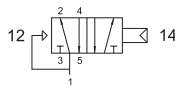
5/2 doppio comando pneumatico  
5/2 double pneumatic pilot

## 252 CCD



5/2 doppio comando pneumatico - con differenziale  
5/2 double pneumatic pilot - with differential

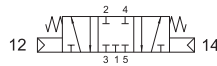
## 252 CFP



5/2 comando pneumatico - ritorno a molla pneumatica  
5/2 pneumatic pilot - pneumatic spring return

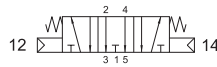
## 253C CC

centri chiusi  
closed centres



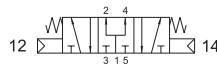
## 253A CC

centri aperti  
open centres

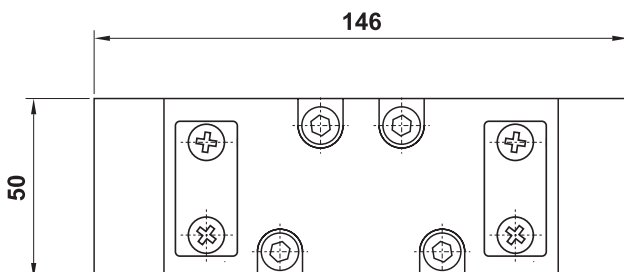
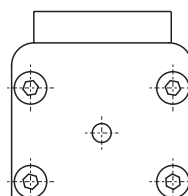
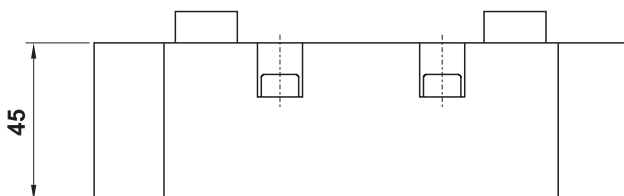
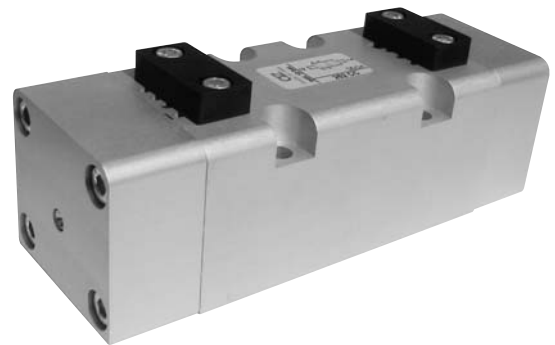


## 253P CC

centri in pressione  
pressurized centres



5/3 doppio comando pneumatico  
5/3 double pneumatic pilot



# valvole ISO 5599/1 taglia 2

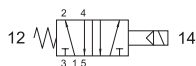
ISO 5599/1 valves - size 2



## 252 ME

5/2 comando elettrico - ritorno a molla

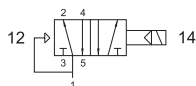
5/2 solenoid pilot - spring return



## 252 EFP

5/2 comando elettrico - ritorno a molla pneumatica

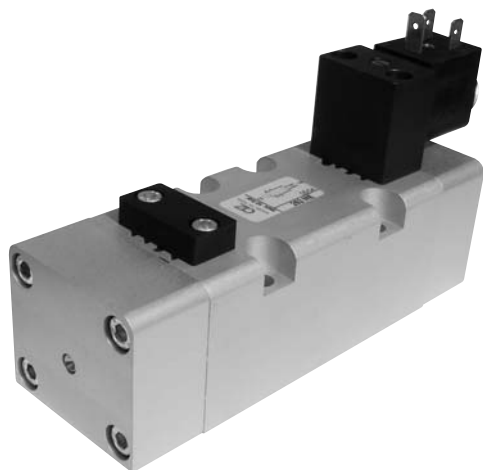
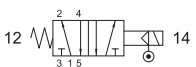
5/2 solenoid pilot - pneumatic spring return



## 252 ME AS

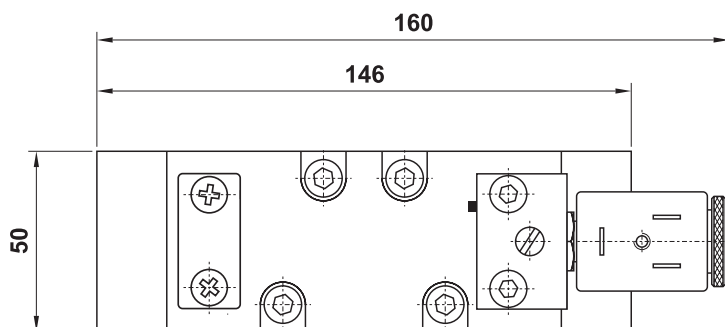
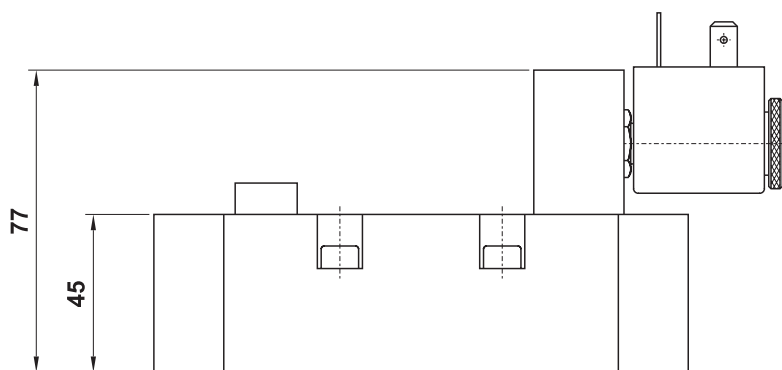
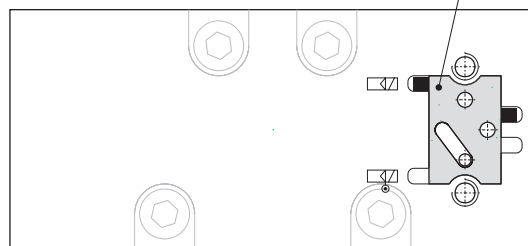
5/2 comando elettrico alimentazione separata - ritorno a molla

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



Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.



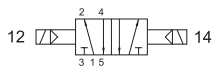
# valvole ISO 5599/1 taglia 2

ISO 5599/1 valves - size 2



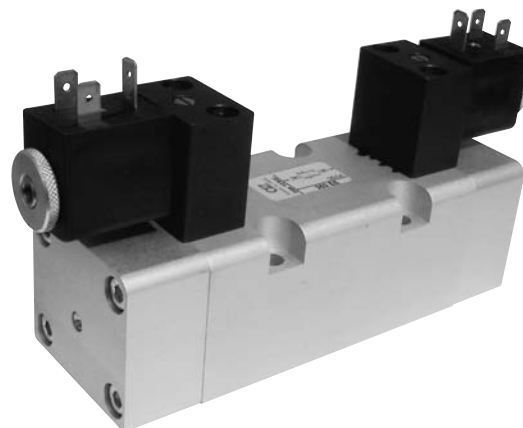
## 252 EE

5/2 doppio comando elettrico  
5/2 double solenoid pilot



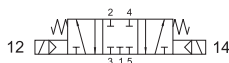
## 252 EE AS

5/2 doppio comando elettrico alimentazione separata  
5/2 double solenoid pilot with separate air supply



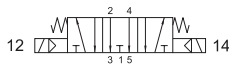
## 253C EE

centri chiusi  
closed centres



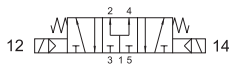
## 253A EE

centri aperti  
open centres



## 253P EE

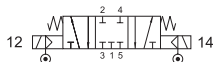
centri in pressione  
pressurized centres



5/3 doppio comando elettrico  
5/3 double solenoid pilot

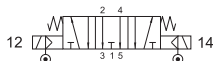
## 253C EE AS

centri chiusi  
closed centres



## 253A EE AS

centri aperti  
open centres



## 253P EE AS

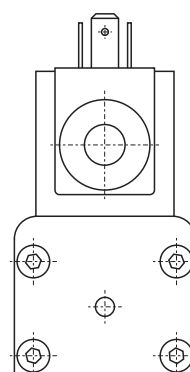
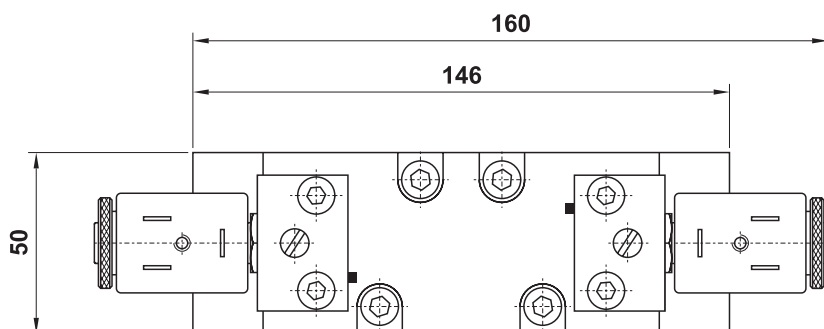
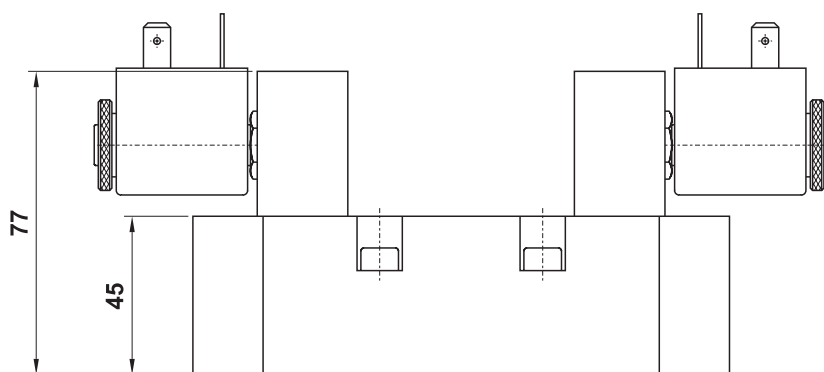
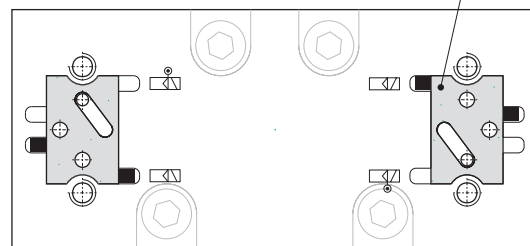
centri in pressione  
pressurized centres



5/3 doppio comando elettrico alimentazione separata  
5/3 double solenoid pilot with separate air supply

Per cambiare il tipo di alimentazione dell'elettropilota (alimentazione interna o separata) si deve riposizionare la guarnizione in modo che l'estremità evidenziata in nero sia collocata nella posizione corrispondente al simbolo della funzione desiderata.

To change between internal and external air supply it is necessary to align the seal end marked in black with the correct symbol.



# sottobasi modulari per valvole ISO 2

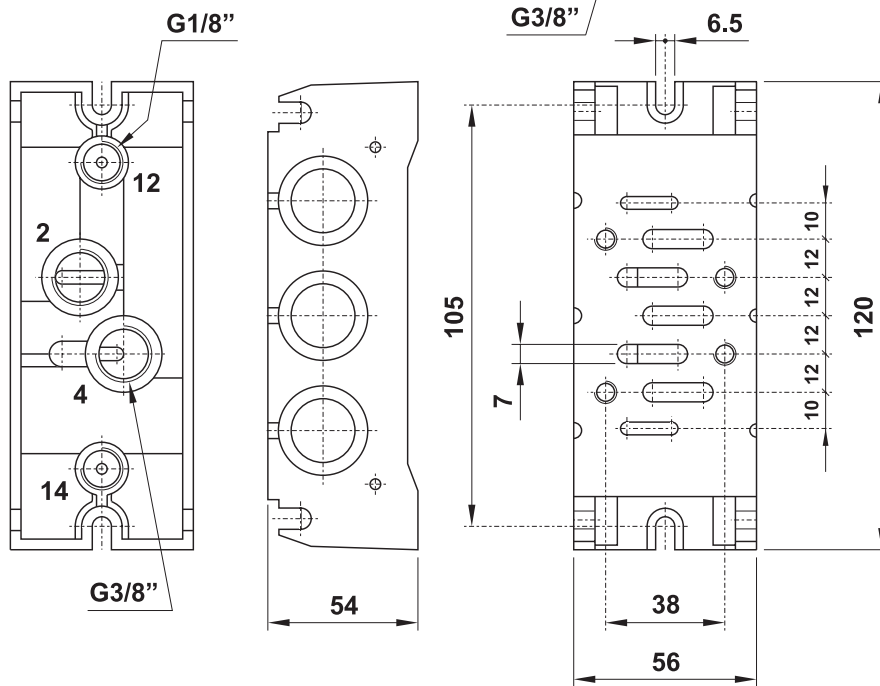
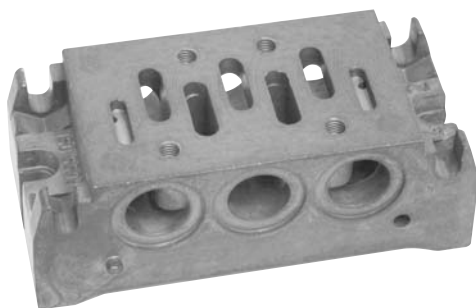
multiple sub-bases for ISO 2 valves



sottobase modulare  
modular sub-base

CODICE DI ORDINAZIONE  
ORDER CODE

**MLD2**

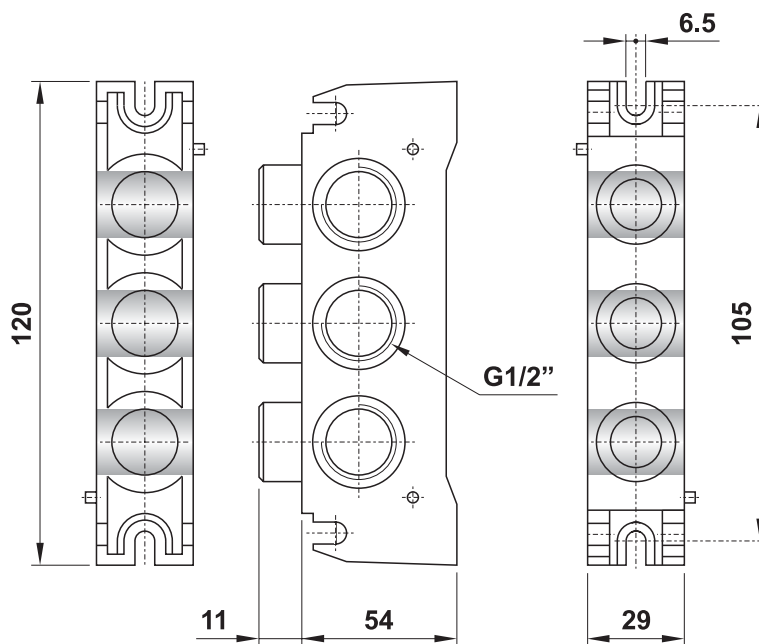
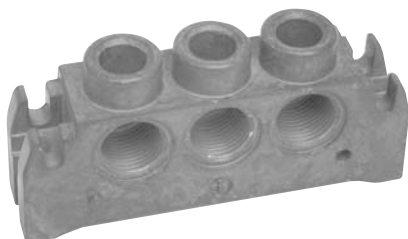


È venduta in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

terminale di ingresso in asse  
side entry header

CODICE DI ORDINAZIONE  
ORDER CODE

**TL2**



È venduto in kit con i particolari necessari al suo assemblaggio.  
It is sold in kit with all necessary pieces for installation.

# sottobasi modulari per valvole ISO 2

multiple sub-bases for ISO 2 valves

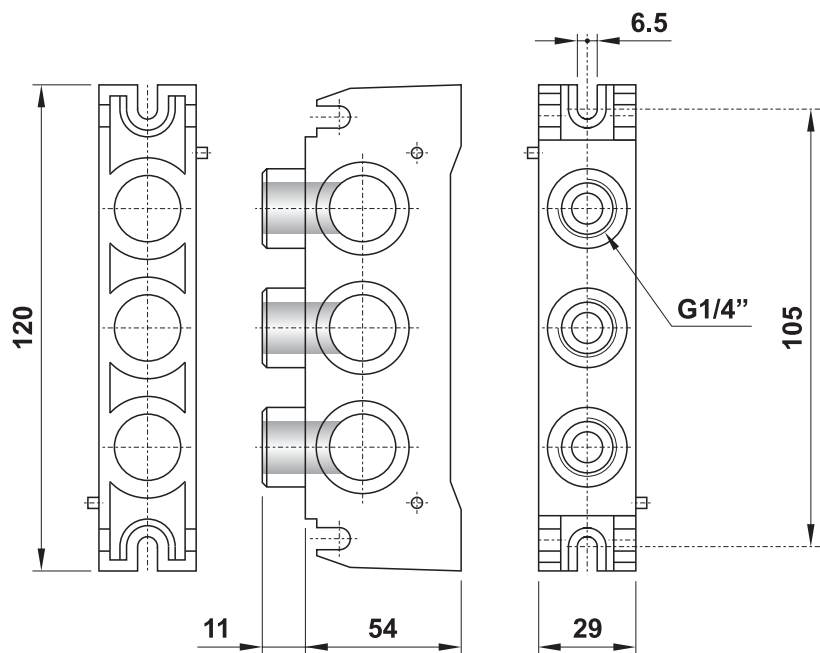


## terminale di ingresso superiore top entry header

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**TA2**

utilizzabile anche come intermedio  
*it can be used also as intermediate header*



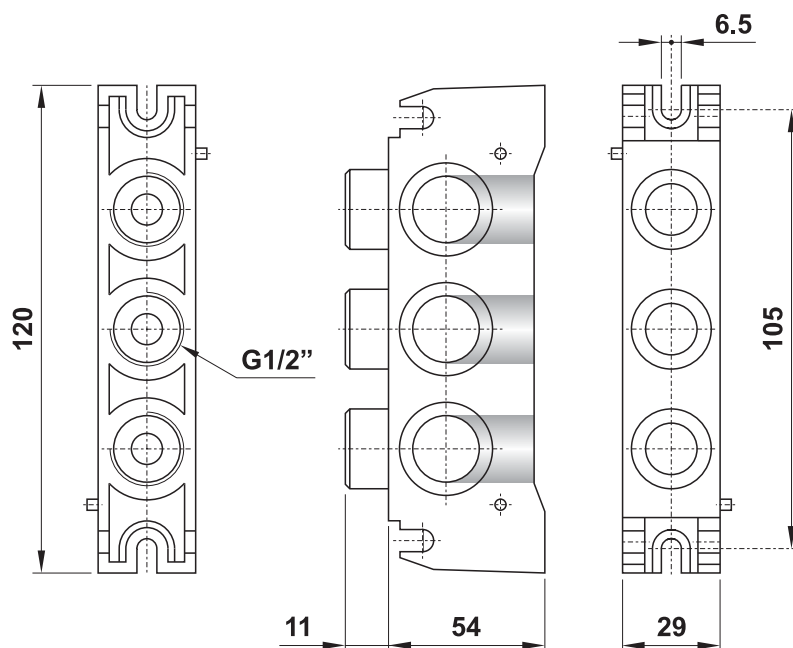
È venduto in kit con i particolari necessari al suo assemblaggio.  
*It is sold in kit with all necessary pieces for installation.*

## terminale di ingresso inferiore bottom entry header

**CODICE DI ORDINAZIONE**  
**ORDER CODE**

**TB2**

utilizzabile anche come intermedio  
*it can be used also as intermediate header*



È venduto in kit con i particolari necessari al suo assemblaggio.  
*It is sold in kit with all necessary pieces for installation.*