

**Pinza pneumatica a 2 griffe ad azione parallela autocentrante (serie SP)**

- Azionamento a doppio effetto.
- Meccanismo di regolazione del gioco.
- Grande durata e affidabilità senza manutenzione.
- Diverse possibilità di fissaggio e alimentazione.
- Sensori magnetici opzionali.
- Grasso alimentare FDA-H1.

**2-jaw self-centering parallel pneumatic gripper (series SP)**

- Double-acting drive.
- Backlash adjusting system.
- Maintenance-free long life and reliability.
- Various mounting and feeding options.
- Optional magnetic sensors.
- FDA-H1 food-grade grease.



SP-20

SP-25

SP-32

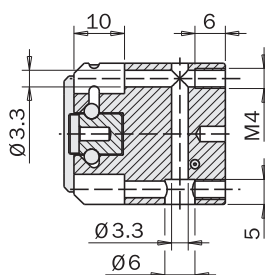
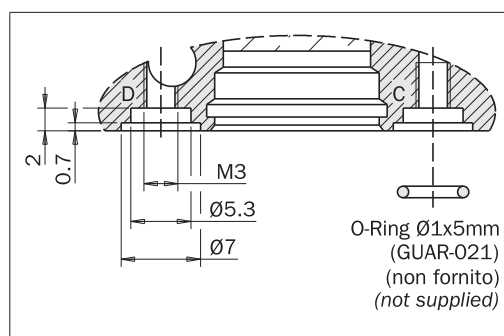
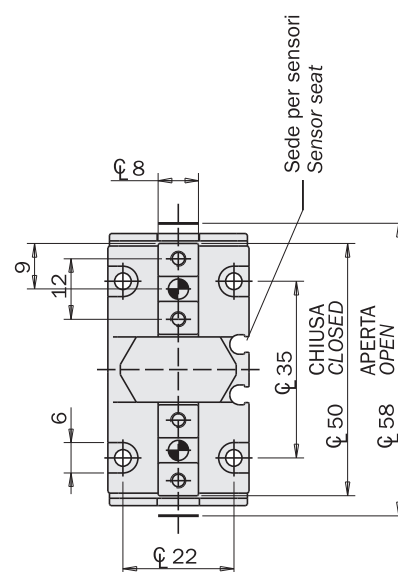
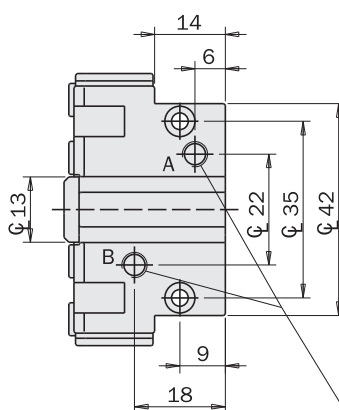
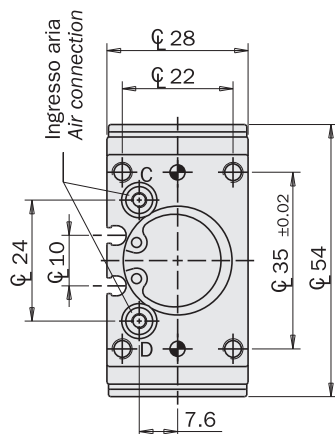
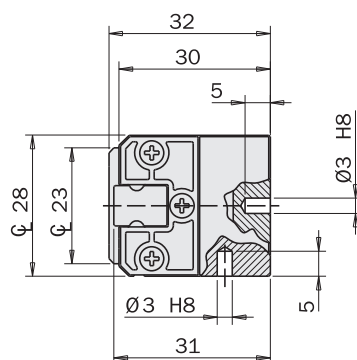
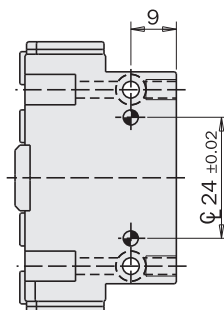
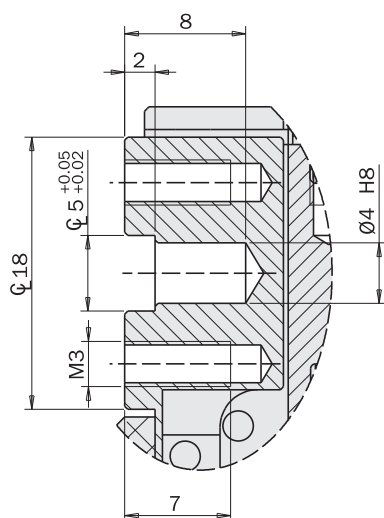
SP-40

|                                                                                                  | SP-20                                                                                                       | SP-25    | SP-32    | SP-40    |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------|----------|----------|
| Fluido<br>Medium                                                                                 | Aria compressa a norma ISO 8573-1:2010 [7:4:4]<br>Compressed air in compliance with ISO 8573-1:2010 [7:4:4] |          |          |          |
| Pressione di esercizio<br>Operating pressure range                                               | 2.5 ÷ 8 bar                                                                                                 |          |          |          |
| Temperatura di esercizio<br>Operating temperature range                                          | 5° ÷ 60°C.                                                                                                  |          |          |          |
| Forza di serraggio per griffa in apertura a 6 bar<br>Opening gripping force at 6 bar on each jaw | 70 N                                                                                                        | 120 N    | 220 N    | 350 N    |
| Forza di serraggio totale in apertura a 6 bar<br>Total opening gripping force at 6 bar           | 140 N                                                                                                       | 240 N    | 440 N    | 700 N    |
| Forza di serraggio per griffa in chiusura a 6 bar<br>Closing gripping force at 6 bar on each jaw | 65 N                                                                                                        | 110 N    | 200 N    | 320 N    |
| Forza di serraggio totale in chiusura a 6 bar<br>Total closing gripping force at 6 bar           | 130 N                                                                                                       | 220 N    | 400 N    | 640 N    |
| Corsa totale (± 0.2 mm)<br>Total stroke                                                          | 8 mm                                                                                                        | 12 mm    | 16 mm    | 20 mm    |
| Frequenza max funzionamento continuativo<br>Maximum continuous operating frequency               | 3 Hz                                                                                                        | 2 Hz     | 2 Hz     | 2 Hz     |
| Consumo d'aria per ciclo<br>Air consumption per cycle                                            | 3 cm³                                                                                                       | 6 cm³    | 13 cm³   | 31 cm³   |
| Tempo di chiusura senza carico<br>Closing time without load                                      | 0.03 s                                                                                                      | 0.05 s   | 0.05 s   | 0.05 s   |
| Tolleranza max ripetibilità<br>Maximum repeatability tolerance                                   | ±0.02 mm                                                                                                    | ±0.02 mm | ±0.02 mm | ±0.02 mm |
| Peso<br>Weight                                                                                   | 105 g                                                                                                       | 210 g    | 380 g    | 600 g    |

**Dimensioni (mm)**  
**Dimensions (mm)**

SP-20

Dettaglio griffa sezionata  
Jaw cross section

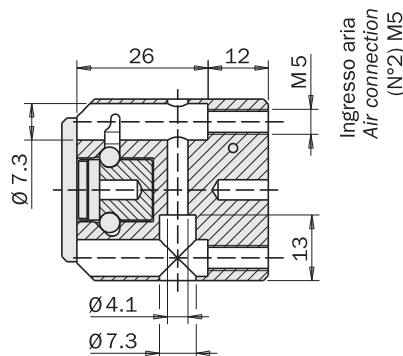
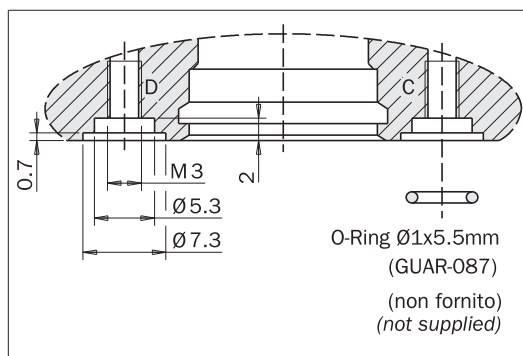
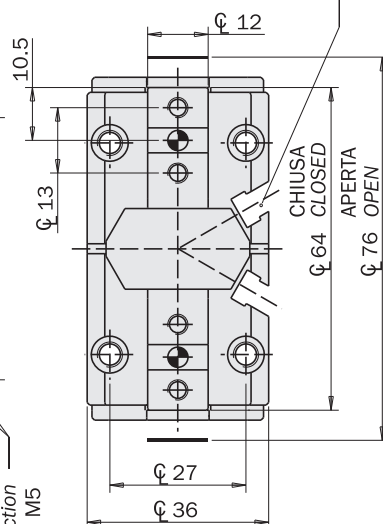
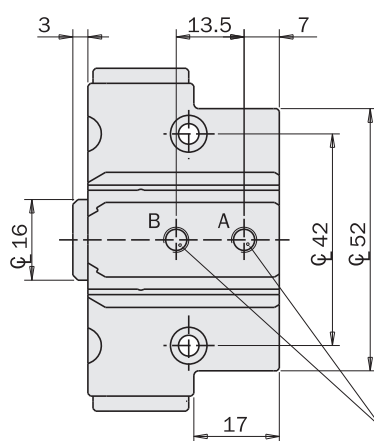
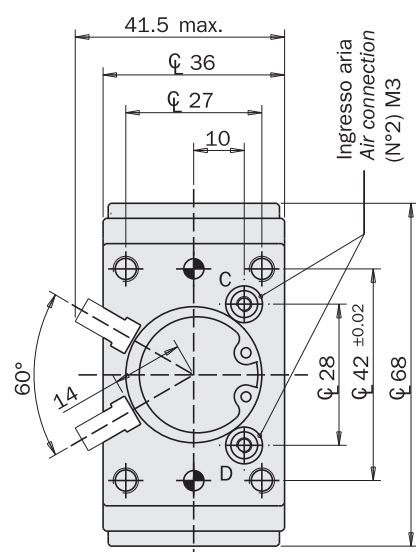
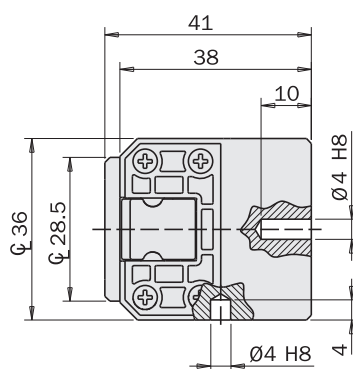
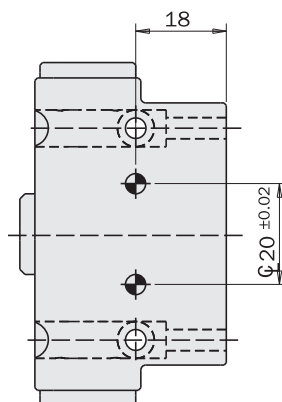
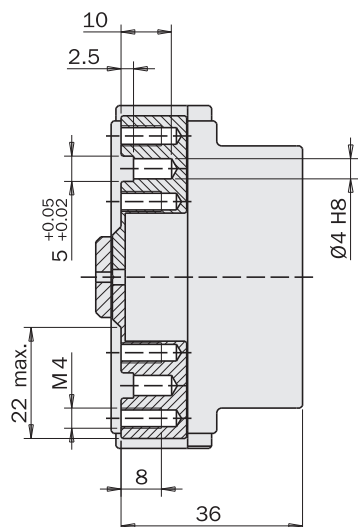


Ingresso aria  
Air connection  
(N°2) M5



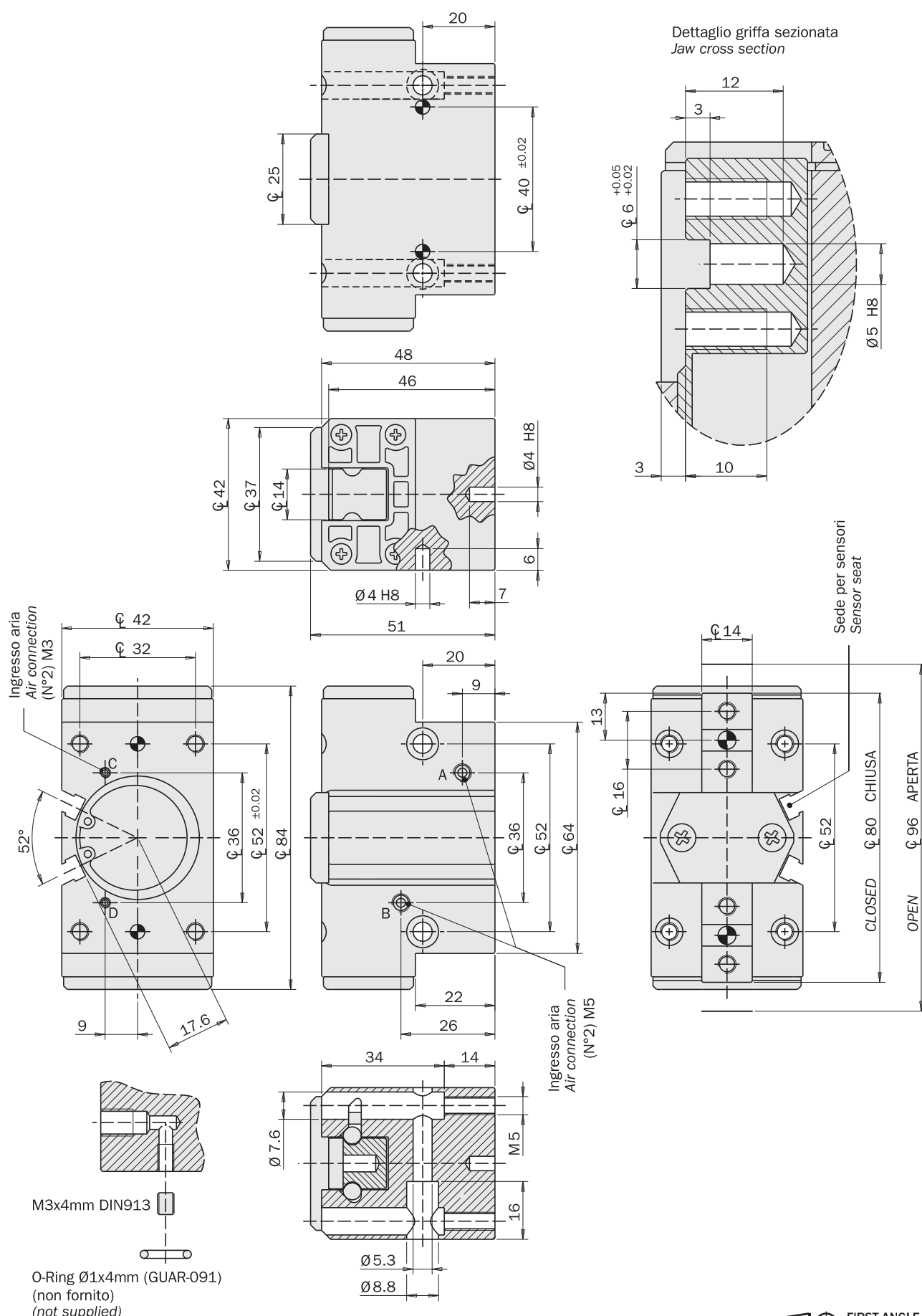
**Dimensioni (mm)**  
**Dimensions (mm)**

Dettaglio griffa sezionata  
Jaw cross section



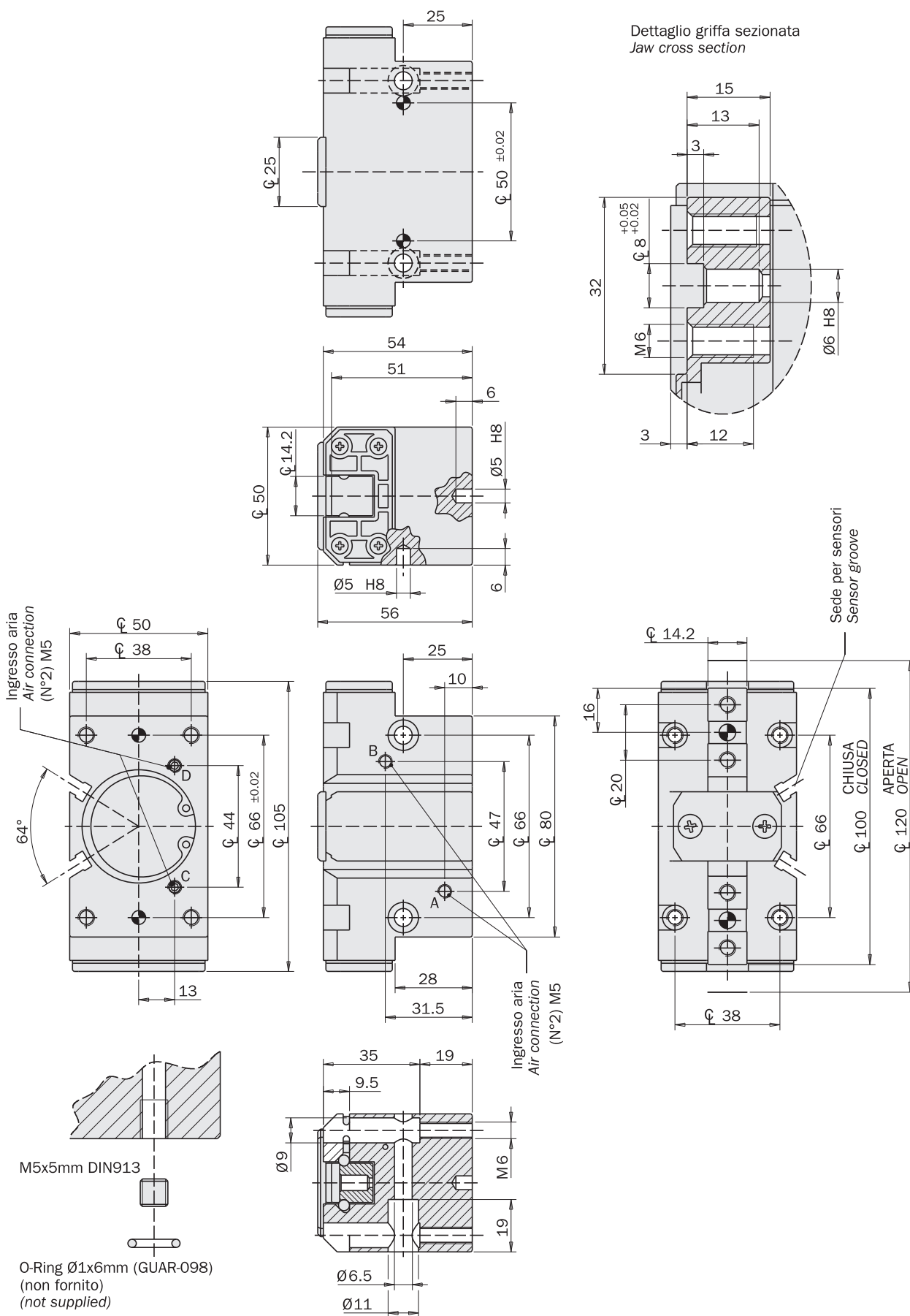
**Dimensioni (mm)**  
**Dimensions (mm)**

SP-32



**FIRST ANGLE**  
**PROJECTION**

Dimensioni (mm)  
Dimensions (mm)



## Sensori

Il rilevamento della posizione di lavoro è affidato a uno o più sensori magnetici di prossimità (opzionali), che rilevano la posizione attraverso il magnete sul pistone.

Quindi, per un corretto funzionamento, è da evitare l'impiego in presenza di forti campi magnetici od in prossimità di grosse masse di materiale ferromagnetico.

I sensori utilizzabili sono:

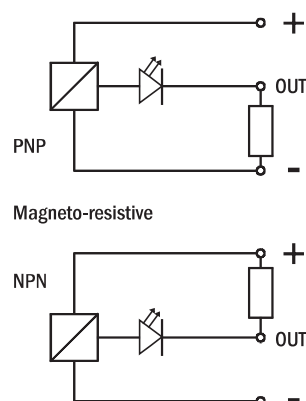


## Sensors

The operating position is detected by magnetic proximity sensors (optional) through a magnet placed on the piston.

The use of magnetic proximity sensors is to be avoided in the vicinity of large masses of ferromagnetic material or intense magnetic fields as this may cause detection problems.

The sensors that can be used are:



|           |     |                               | SP-20<br>U                          | SP-25 / SP-32 / SP-40<br>U              |
|-----------|-----|-------------------------------|-------------------------------------|-----------------------------------------|
| SL4N225-G | PNP | Cavo 2.5m<br>2.5m cable       | <input type="checkbox"/>            | <input checked="" type="checkbox"/>     |
| SL4M225-G | NPN |                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/>     |
| SL3N203-G | PNP | Connettore M8<br>M8 connector | <input type="checkbox"/>            | <input checked="" type="checkbox"/>     |
| SL3M203-G | NPN |                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/>     |
| SN4N225-G | PNP | Cavo 2.5m<br>2.5m cable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |
| SN4M225-G | NPN |                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |
| SN3N203-G | PNP | Connettore M8<br>M8 connector | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |
| SN3M203-G | NPN |                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |
| SS4N225-G | PNP | Cavo 2.5m<br>2.5m cable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |
| SS4M225-G | NPN |                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |
| SS3N203-G | PNP | Connettore M8<br>M8 connector | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |
| SS3M203-G | NPN |                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> (*) |

(\*)

Utilizzando l'adattatore SS.004.000 fornito con il sensore.

(\*)

Using the adapter SS.004.000 supplied with the sensor.

