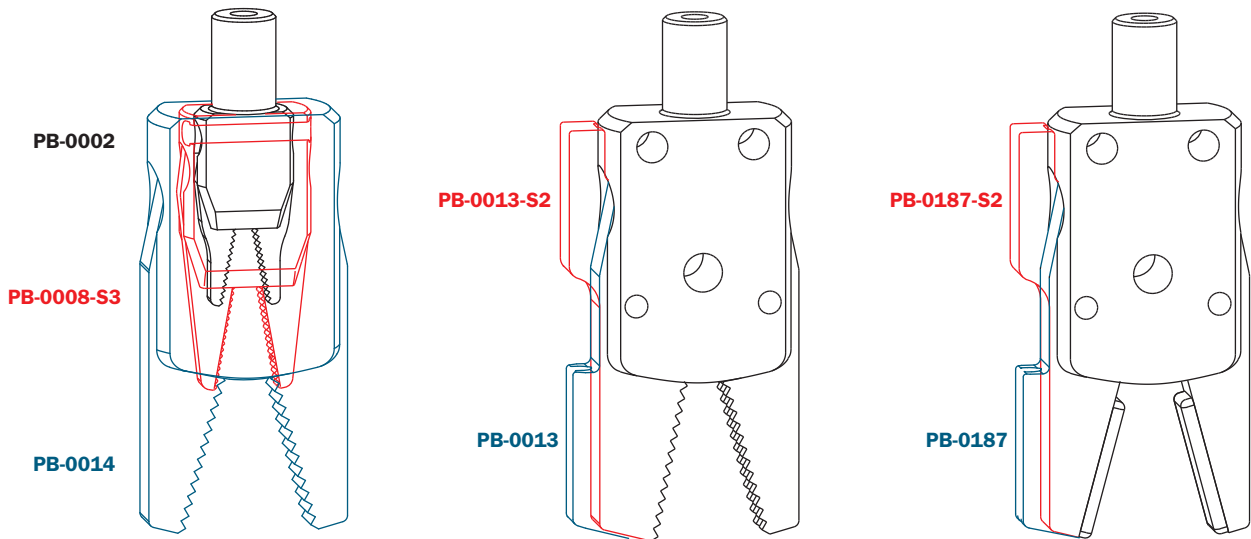


Pinza pneumatica per materozze, angolare non autocentrante a due griffe serie PB

- Grasso alimentare FDA-H1.
- Tre taglie disponibili con alesaggio 6mm, 8mm, 12mm.
- Sensore sulla punta, o sul fondo della griffa.
- Griffe con denti (per presa materozze), o con pastiglie (per contatto morbido).
- Griffe in alluminio o acciaio.

2-jaw non-selfcentering angular pneumatic sprue gripper series PB

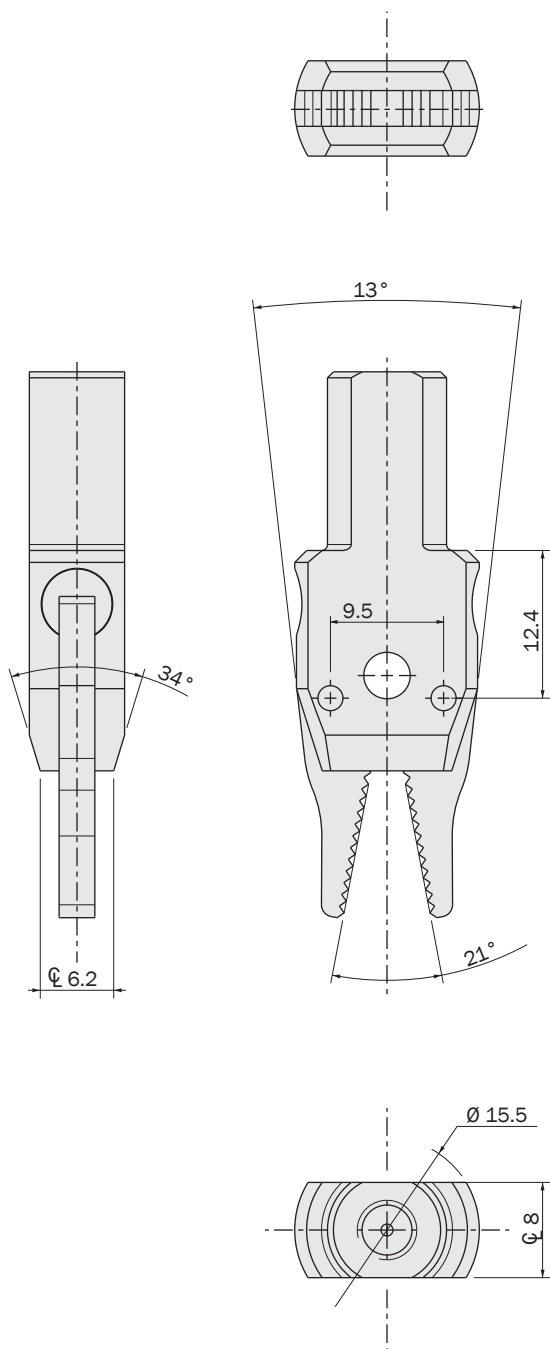
- FDA-H1 food-grade grease.
- Three available sizes with piston bore 6mm, 8mm, 12mm.
- Sensor on the tip of the jaw, or on the tail.
- Jaws with teeth (for sprue gripping), or with pads (for soft contact).
- Jaws in aluminium or steel.



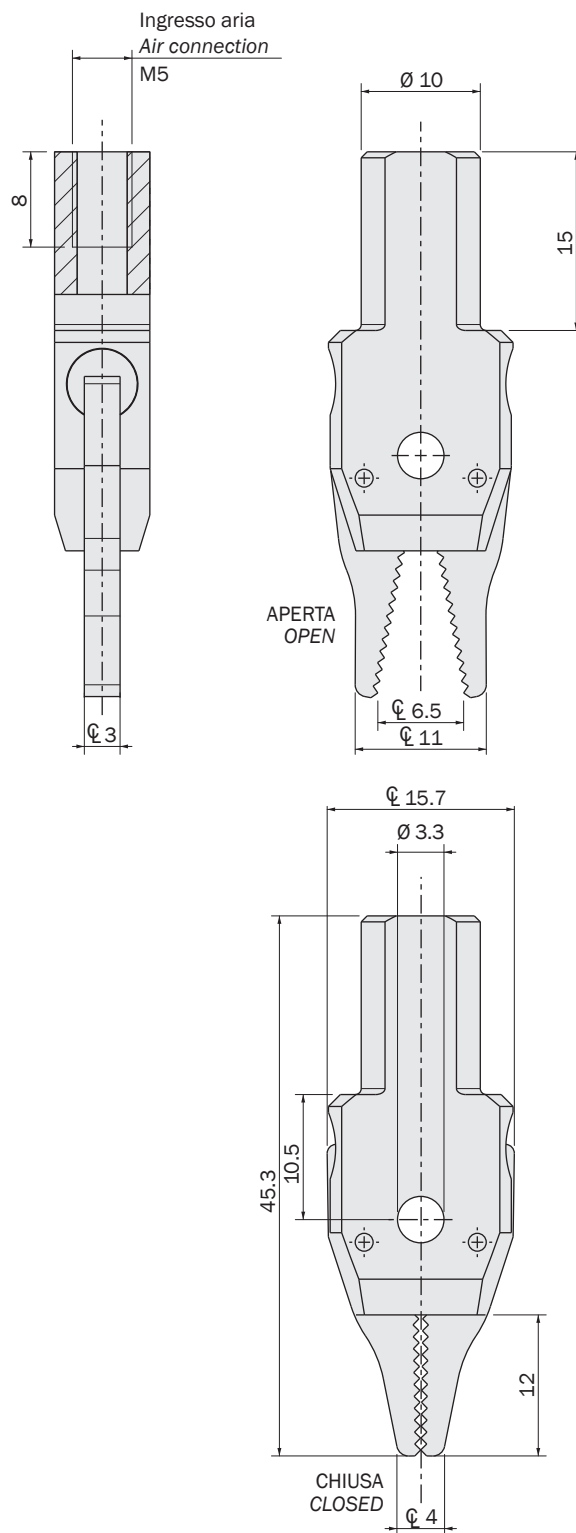
						PB-0170				PB-0160 PB-0181 PB-0182				PB-0187-S2	
	PB-0002	PB-0007-S3	PB-0008-S3	PB-0013	PB-0013-S2	PB-0014	PB-0015	PB-0017	PB-0140 PB-0150	PB-0180	PB-0180-SV	PB-0180-S2	PB-0187	PB-0187-SV	
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]														
Pressione di esercizio Pressure range	4 ÷ 8 bar														
Temperatura di esercizio Temperature range	5 ÷ 60 °C.														
Peso Weight	7 g	17 g	18 g	55 g	63 g	50g	50 g	45 g	75 g	60 g	74 g	70 g	58 g	63 g	
Corsa Stroke (±2°)	2x10°			2x15°			2x16°	2x15°							
Consumo d'aria per ciclo Cycle air consumption	0.3 cm³			1.2 cm³			1.5 cm³	1.2 cm³							
Coppia di serraggio per griffa in chiusura a 6 bar Closing gripping torque at 6 bar each jaw	10 Ncm	24 Ncm		80 Ncm			60 Ncm	80 Ncm							
Coppia per griffa in apertura (a 6 bar) Opening gripping torque (at 6 bar) each jaw	1 Ncm	2 Ncm		5 Ncm			5 Ncm (25 Ncm)	5 Ncm							
Frequenza max funzionamento continuativo Maximum working frequency	3 Hz														
Tempo di chiusura senza carico Closing time without load	0.01 s														

PB-0002

- Alesaggio: 6mm.
- 8mm di spessore.
- A semplice effetto con molla in apertura.

Dimensioni (mm)**PB-0002**

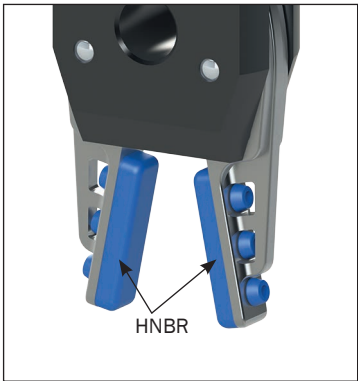
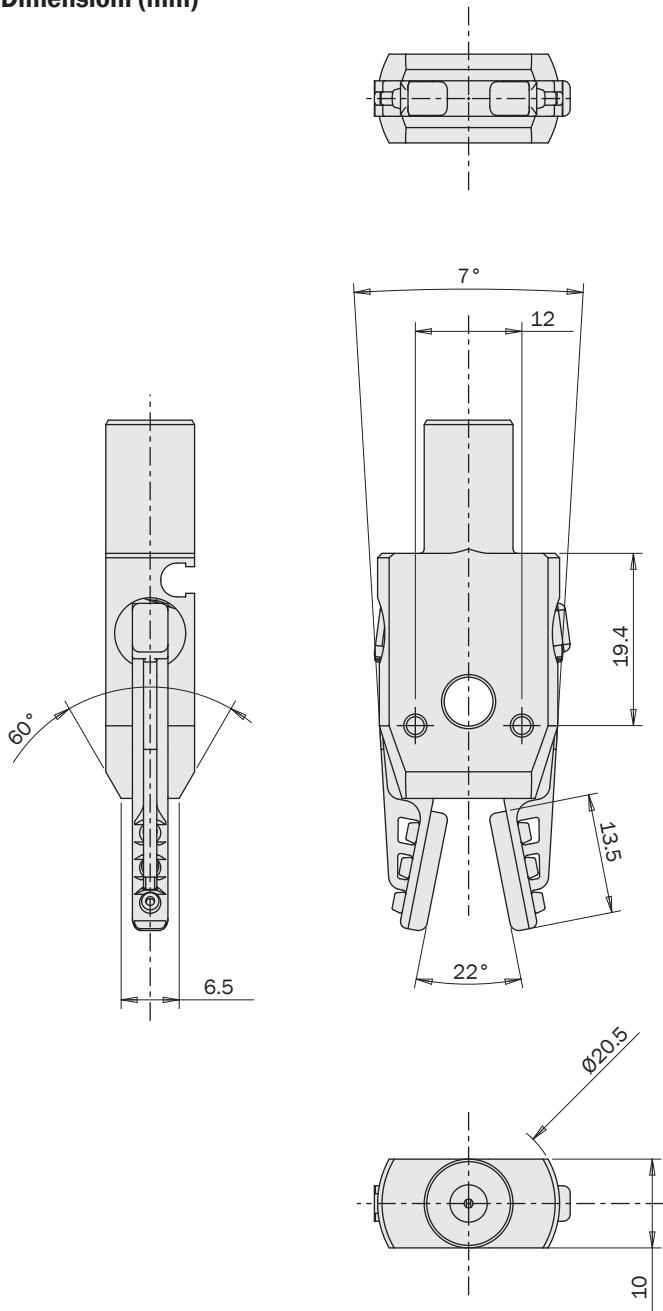
- Piston bore: 6mm.
- 8mm thickness.
- Single-acting with opening spring.

Dimensions (mm)

PB-0007-S3

- Alesaggio: 8mm.
- A semplice effetto con molla in apertura.
- Pastiglia in gomma (HNBR) per contatto morbido.
- Predisposta per sensore magnetico programmabile PRO-SSR.
- Spessore minimo rilevabile: 2mm.

Dimensioni (mm)



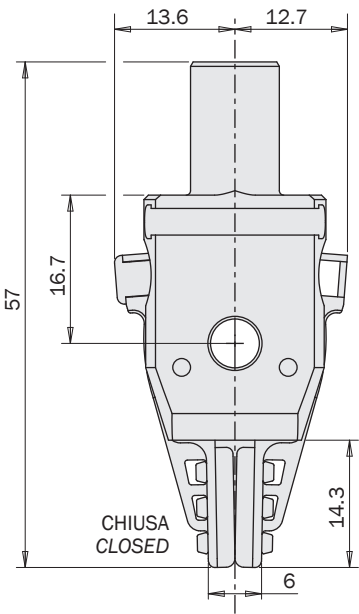
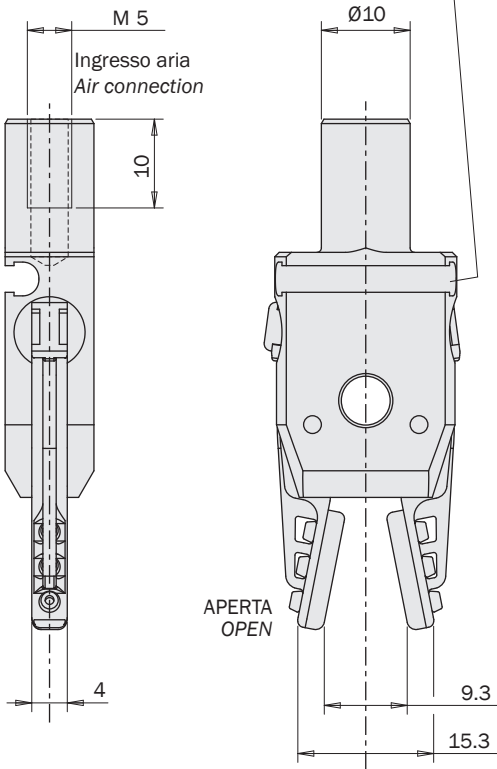
PB-0007-S3

- Piston bore: 8mm.
- Single-acting with opening spring.
- Rubber (HNBR) pads for a soft contact.
- Ready for PRO-SSR programmable magnetic sensor.
- Minimum detectable thickness: 2mm.

Dimensions (mm)

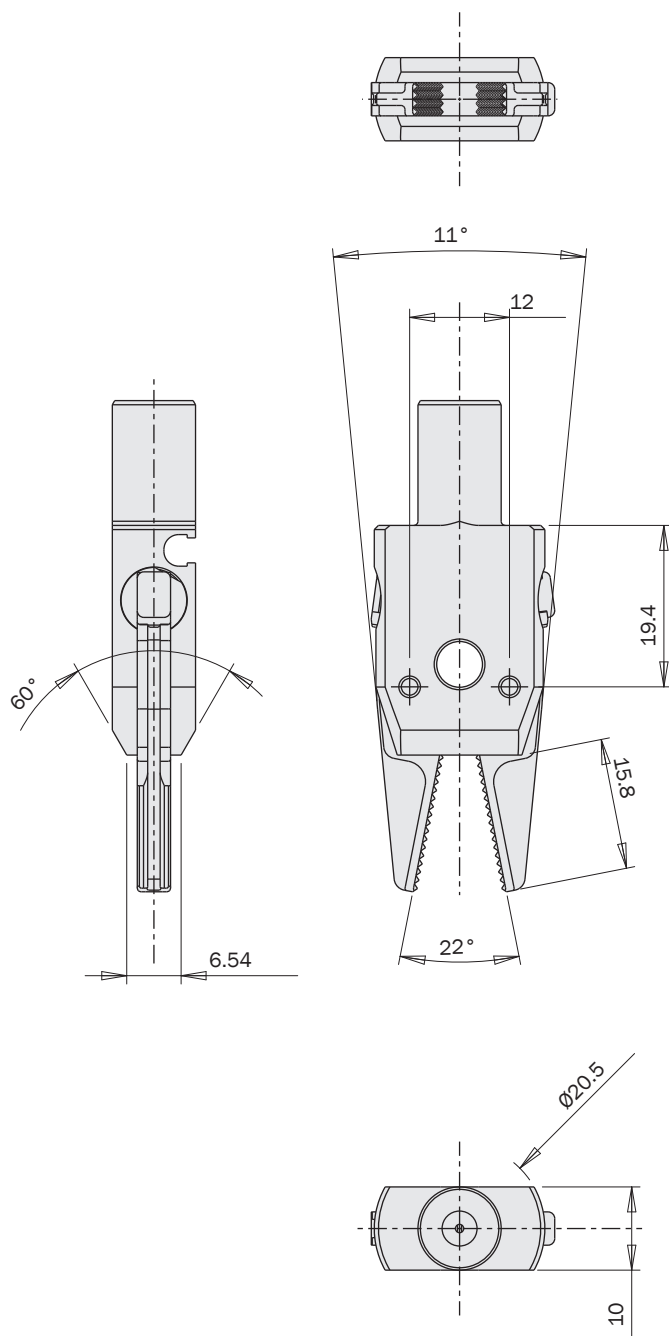


I sensori opzionali sono: The optional sensors are:		
PRO-SSR3M215-G	NPN	Connettore M8 M8 snap plug connector
PRO-SSR3N215-G	PNP	
PRO-SSR4M225-G	NPN	Cavo 2.5m 2.5m cable
PRO-SSR4N225-G	PNP	



PB-0008-S3

- Alesaggio: 8mm.
- A semplice effetto con molla in apertura.
- Predisposta per sensore magnetico programmabile PRO-SSR.
- Spessore minimo rilevabile: 2mm.

Dimensioni (mm)**PB-0008-S3**

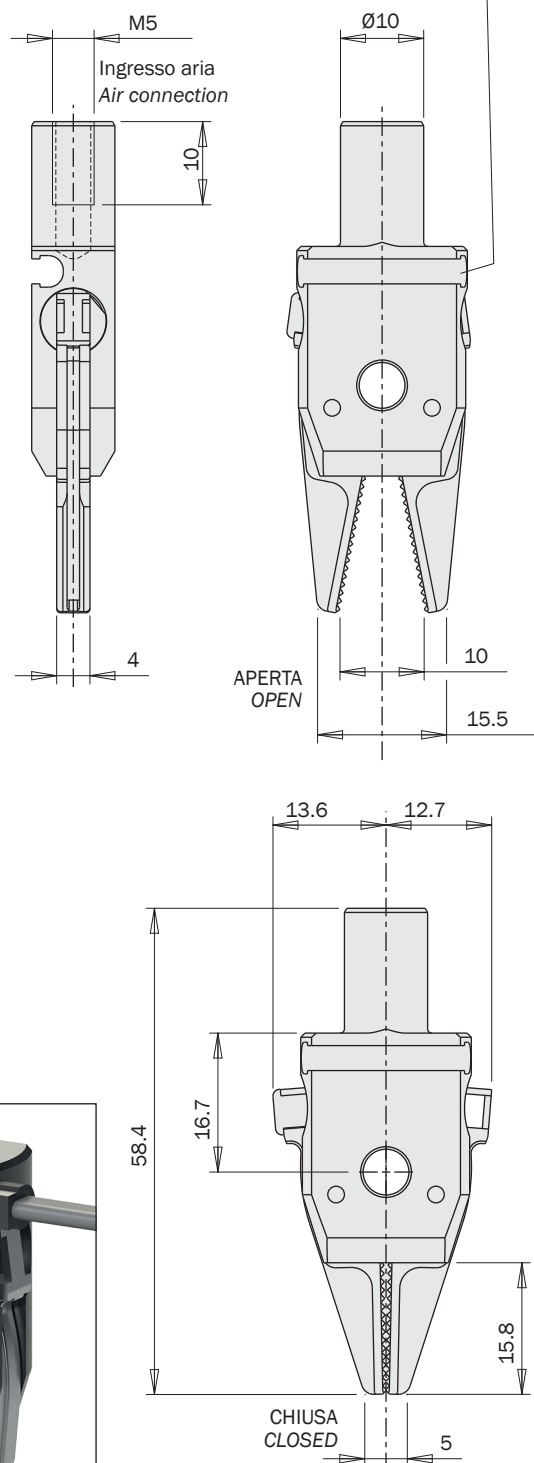
- Piston bore: 8mm.
- Single-acting with opening spring.
- Ready for PRO-SSR programmable magnetic sensor.
- Minimum detectable thickness: 2mm.

Dimensions (mm)

I sensori opzionali sono:

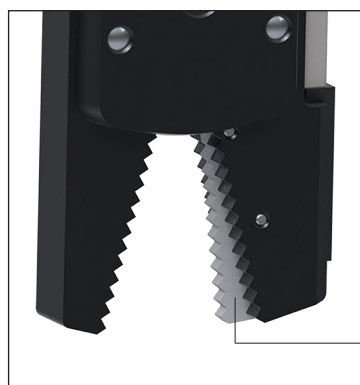
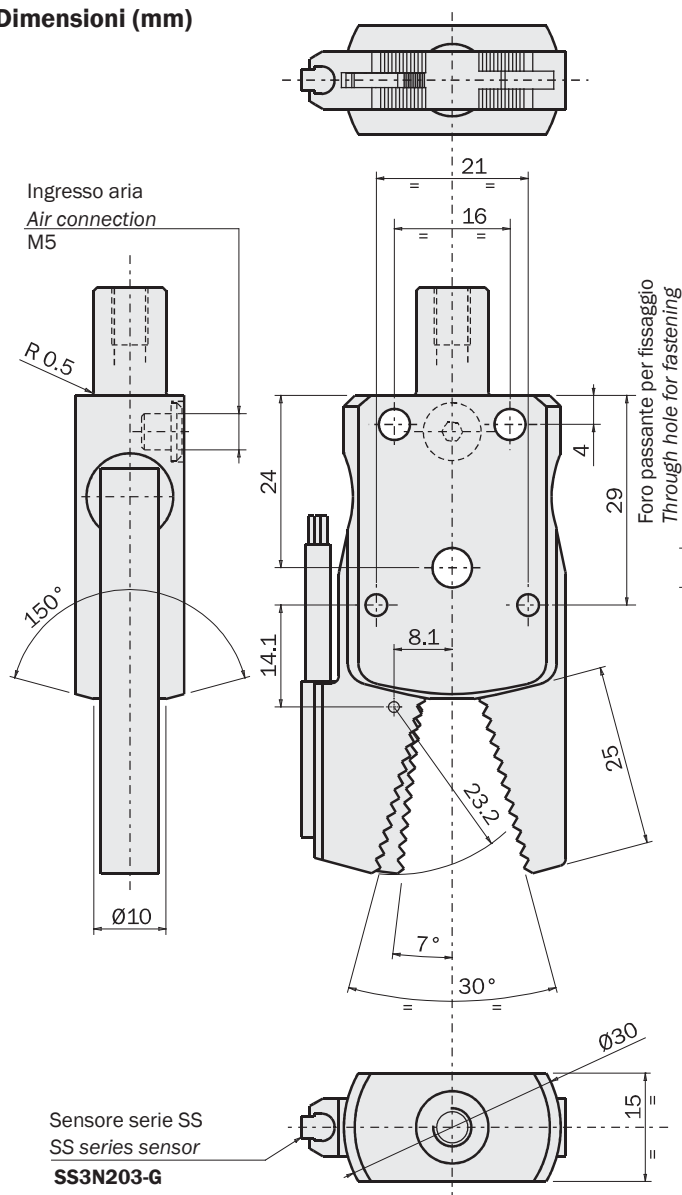
The optional sensors are:

PRO-SSR3M215-G	NPN	Connettore M8
PRO-SSR3N215-G	PNP	M8 snap plug connector
PRO-SSR4M225-G	NPN	Cavo 2.5m
PRO-SSR4N225-G	PNP	2.5m cable

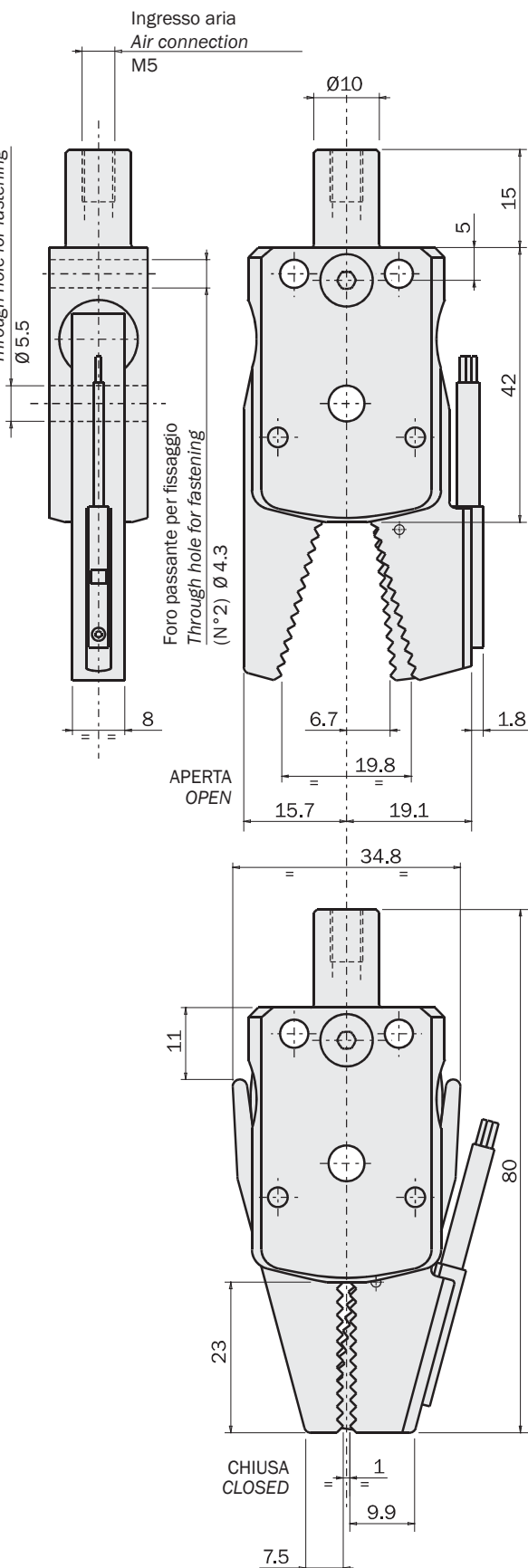


PB-0013

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Sensore SS3N203-G incluso e montato sulla punta della griffa.

Dimensioni (mm)**PB-0013**

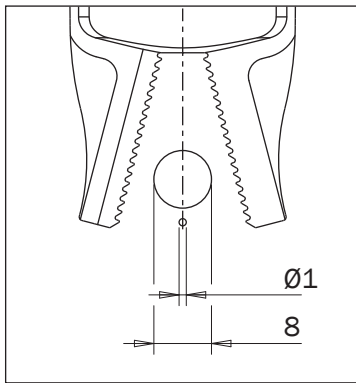
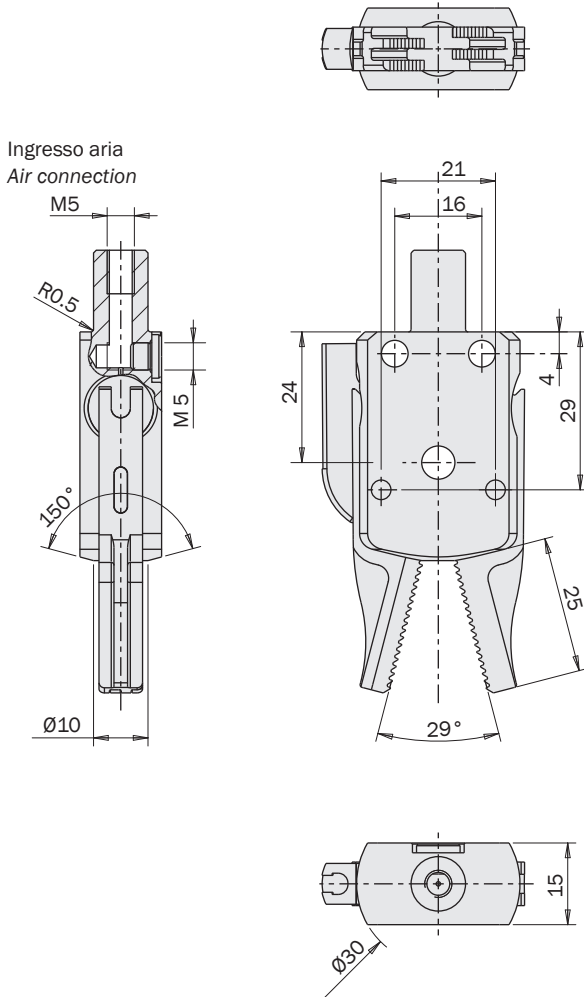
- Piston bore: 12mm.
- Single-acting with opening spring.
- Sensor SS3N203-G included and fitted to the tip of the jaw.

Dimensions (mm)

PB-0013-S2

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Sensore magnetico SSY opzionale con ingombro ridotto nella zona di presa.

Dimensioni (mm)



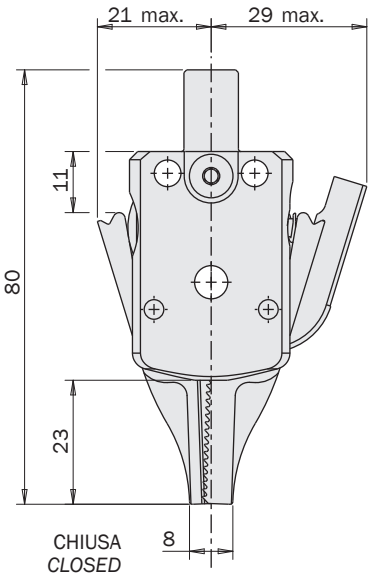
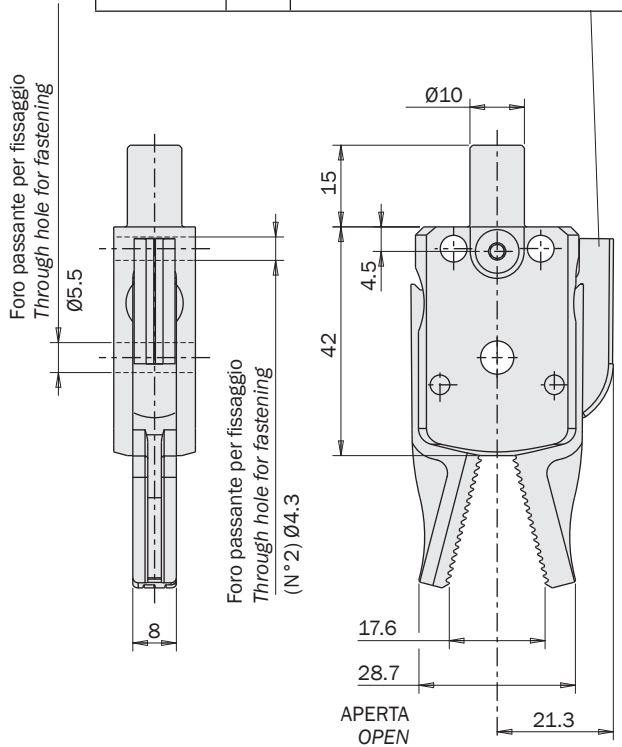
PB-0013-S2

- Piston bore: 12mm.
- Single-acting with opening spring.
- Optional magnetic sensor SSY with reduced encumbrance in the grip area.

Dimensions (mm)

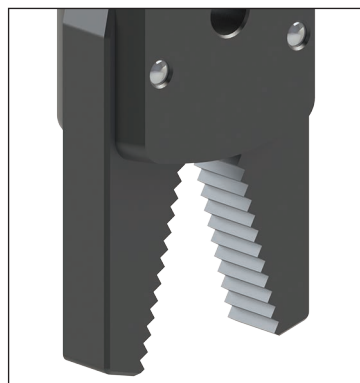
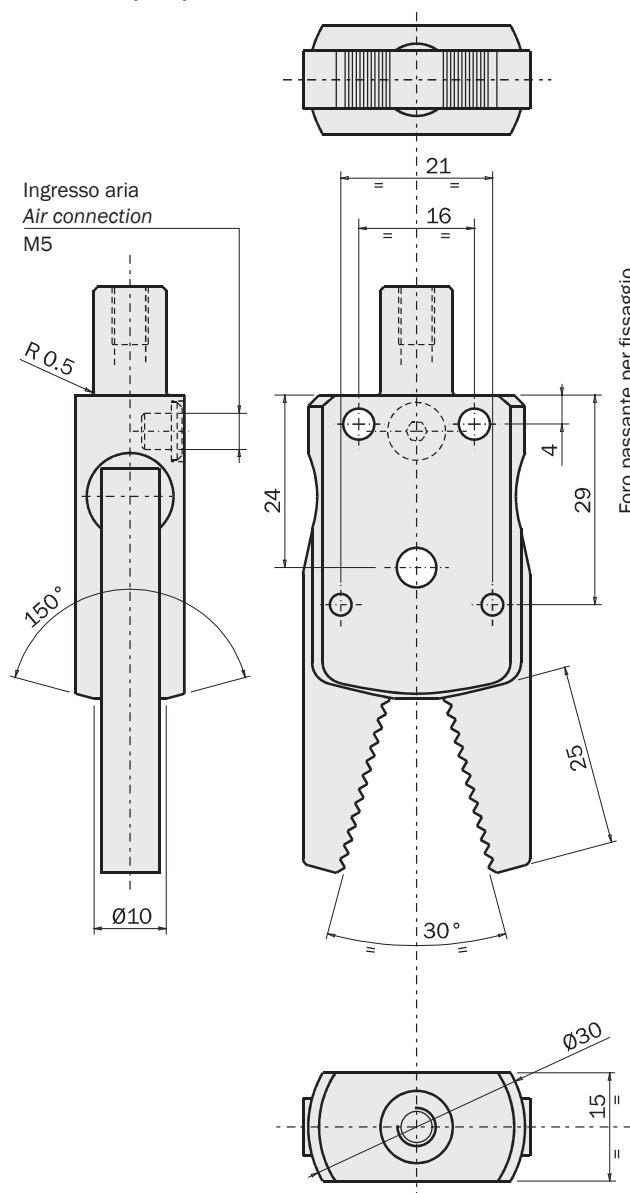


I sensori opzionali sono: The optional sensors are:		
SSY4N225-G	PNP	Cavo 2.5m 2.5m cable
SSY4M225-G	NPN	
SSY3N203-G	PNP	Connettore M8 M8 snap plug connector
SSY3M203-G	NPN	

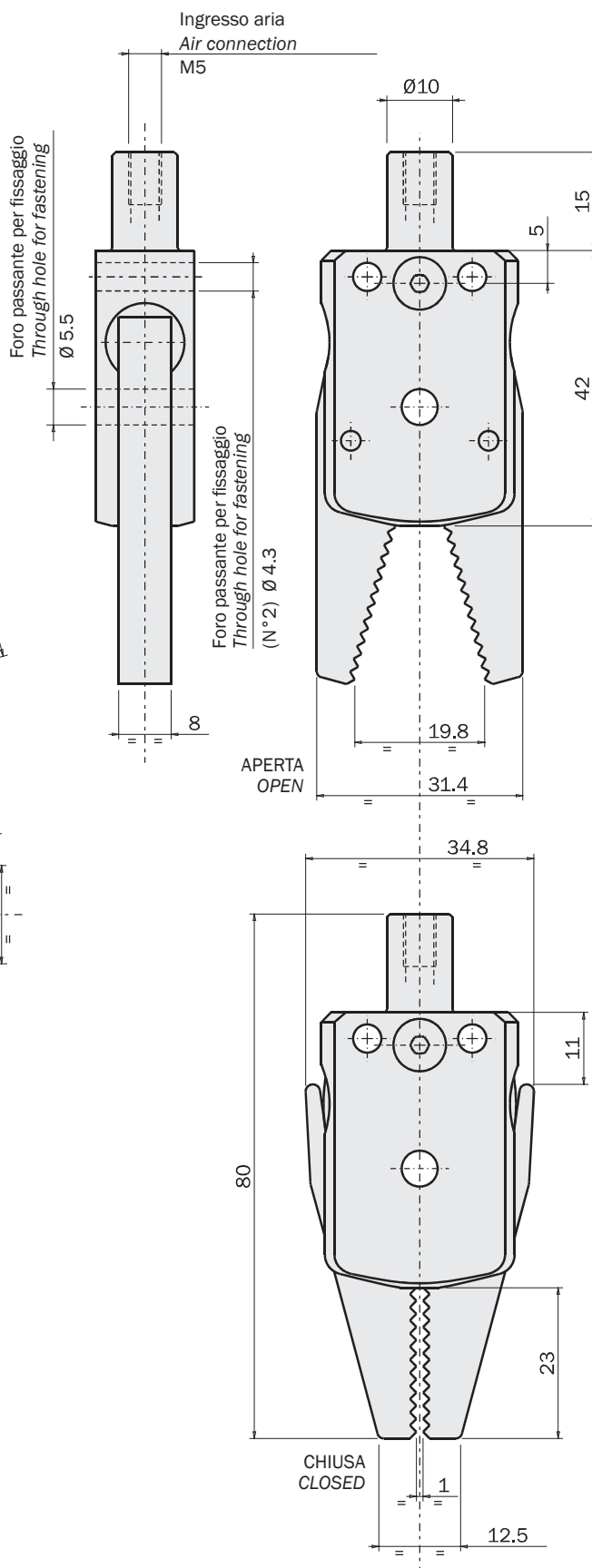


PB-0014

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.

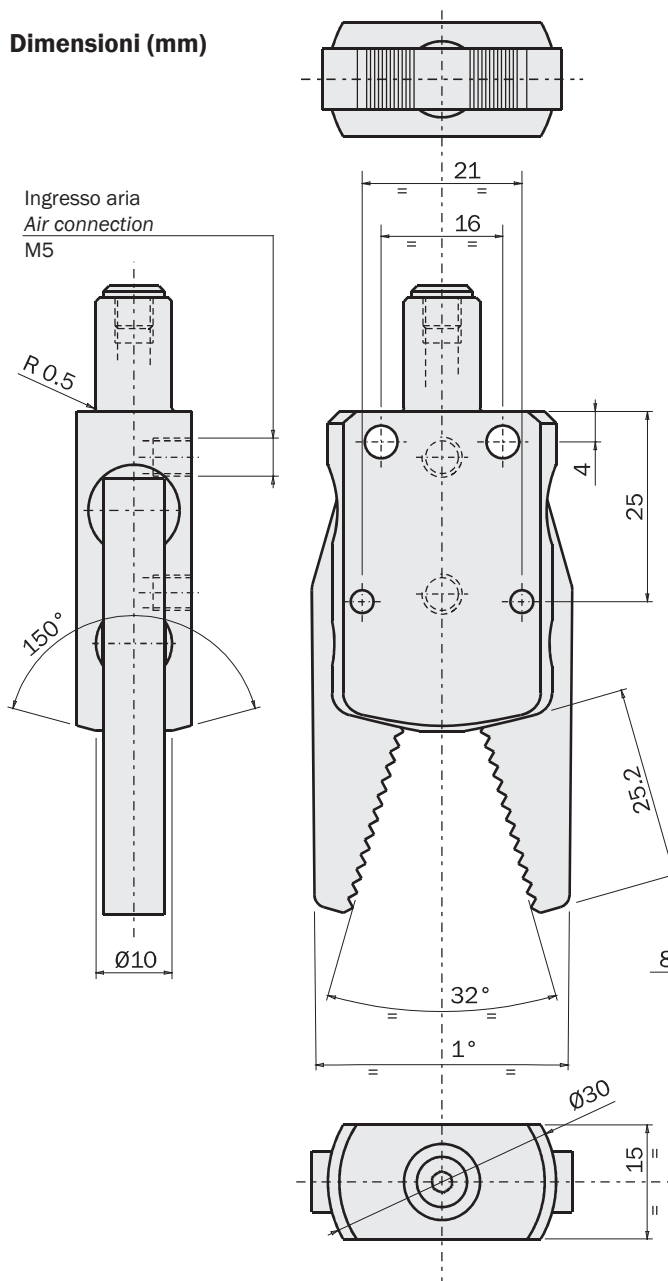
Dimensioni (mm)**PB-0014**

- Piston bore: 12mm.
- Single-acting with opening spring.

Dimensions (mm)

PB-0015

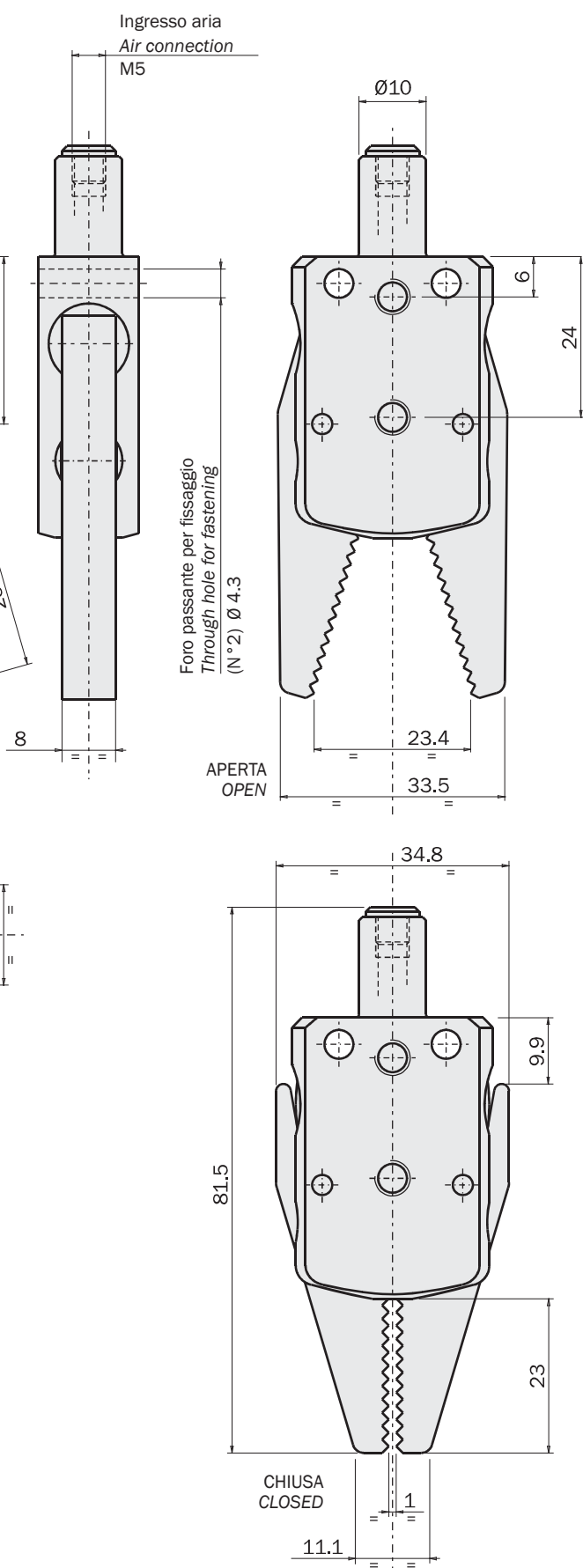
- Alesaggio: 12mm.
- A doppio effetto con molla in apertura.

Dimensioni (mm)

FIRST ANGLE
PROJECTION

PB-0015

- Piston bore: 12mm.
- Double-acting with opening spring.

Dimensions (mm)

CHIUSA
CLOSED

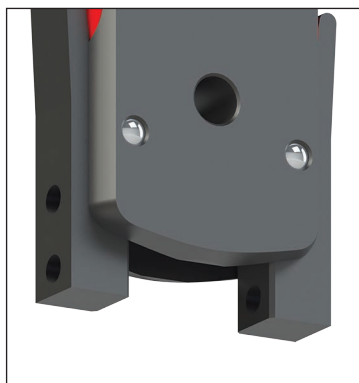
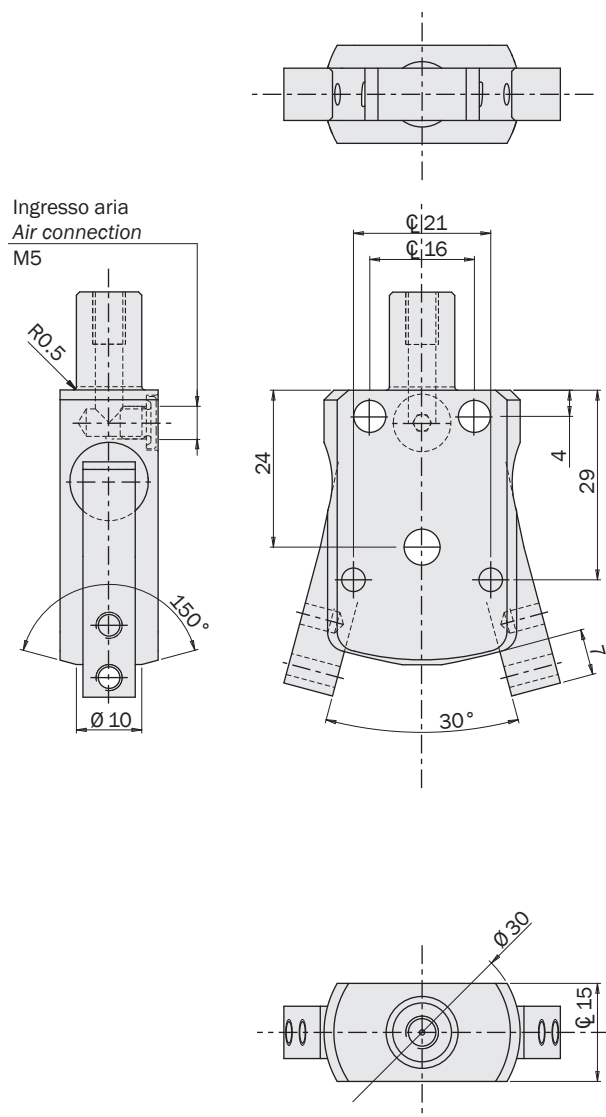
81.5

1

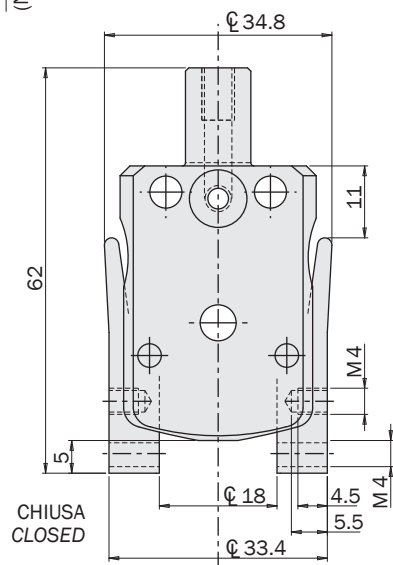
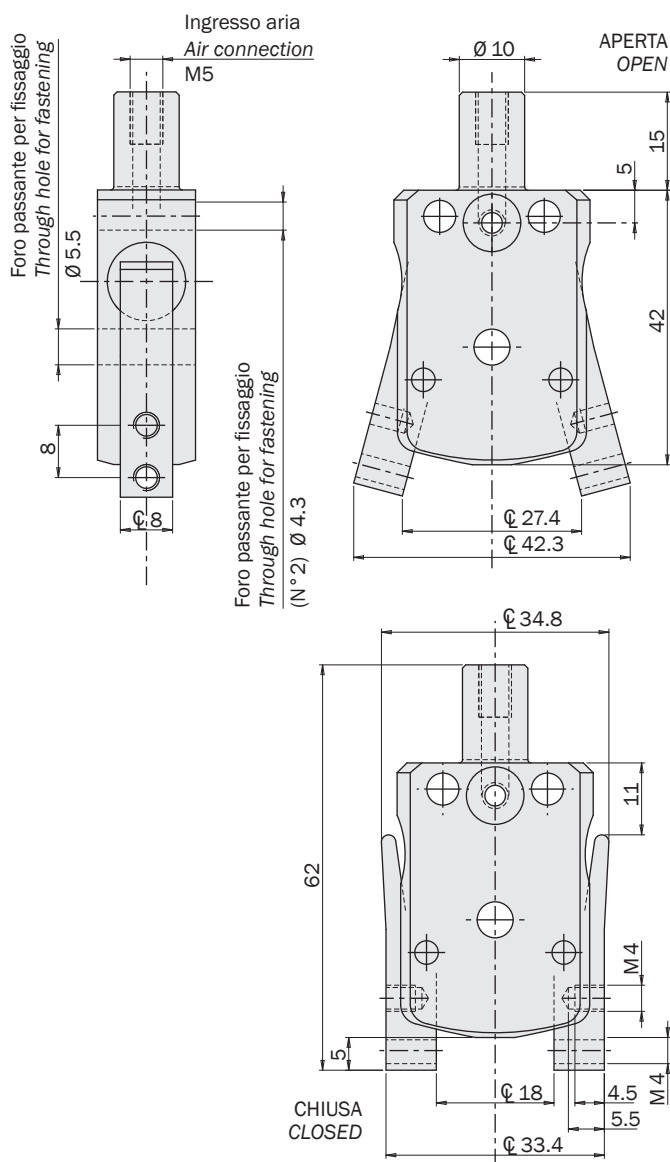
11.1

PB-0017

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Griffe personalizzabili.

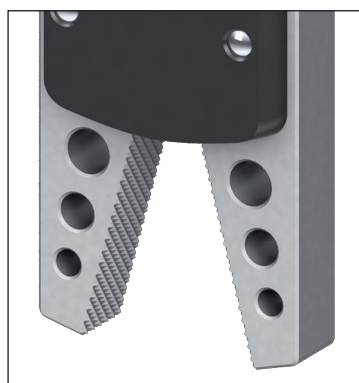
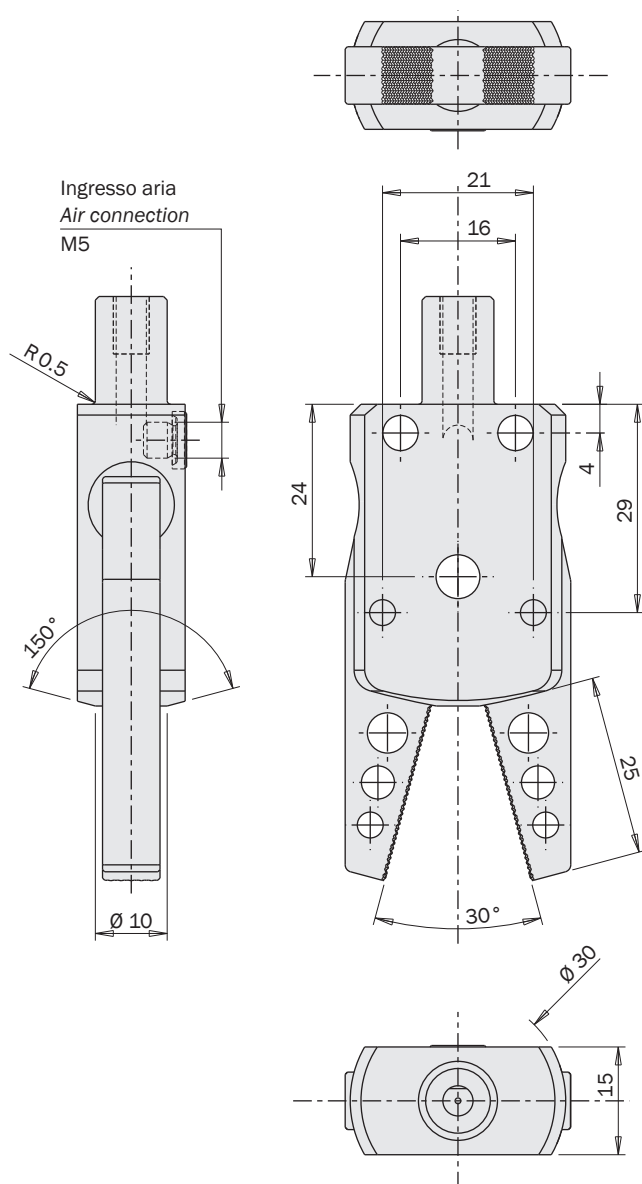
Dimensioni (mm)**PB-0017**

- Piston bore: 12mm.
- Single-acting with opening spring.
- Custom jaws.

Dimensions (mm)

PB-0140

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Griffe in acciaio.

Dimensioni (mm)

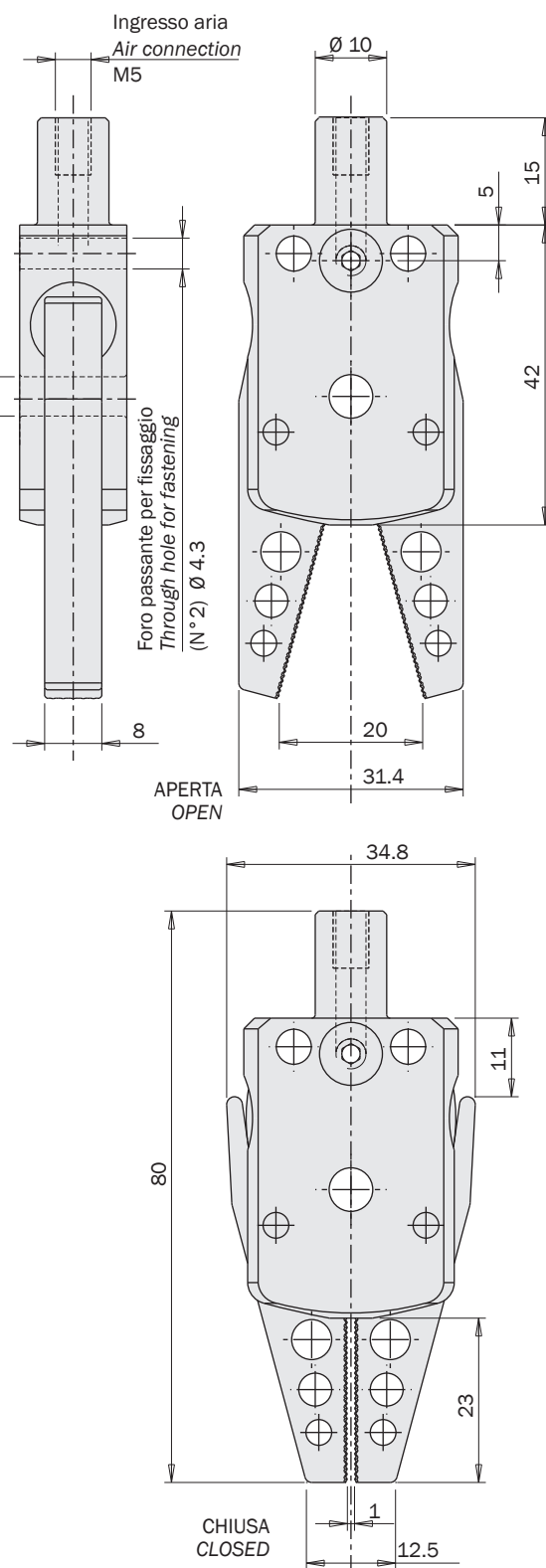
Griffe in acciaio con zigrinatura spinata (90°)
Steel jaws with diamond knurl (90°)



FIRST ANGLE
PROJECTION

PB-0140

- Piston bore: 12mm.
- Single-acting with opening spring.
- Steel jaws.

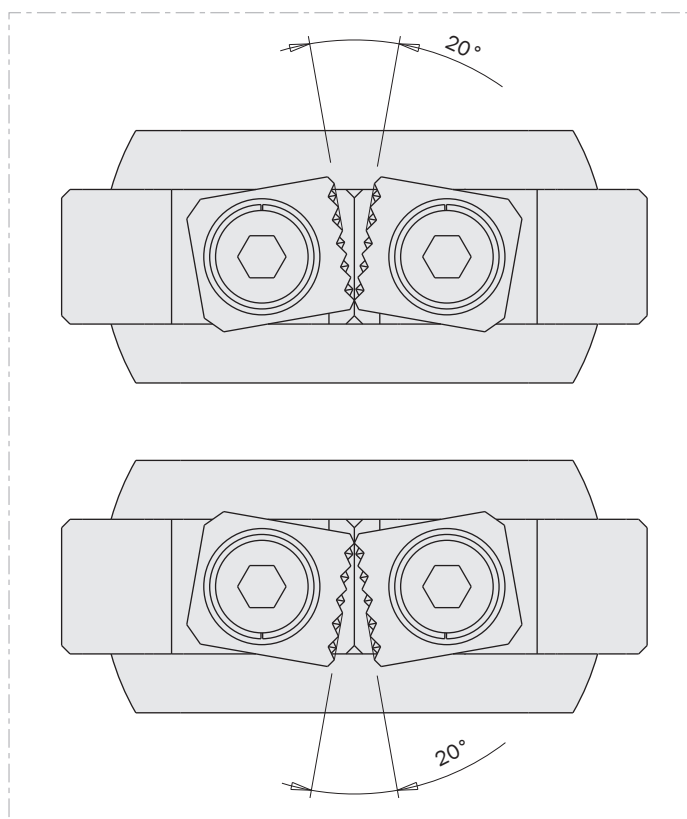
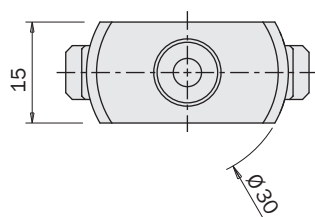
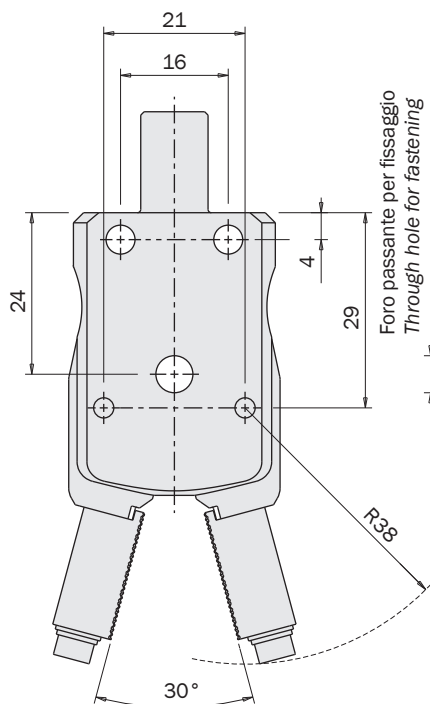
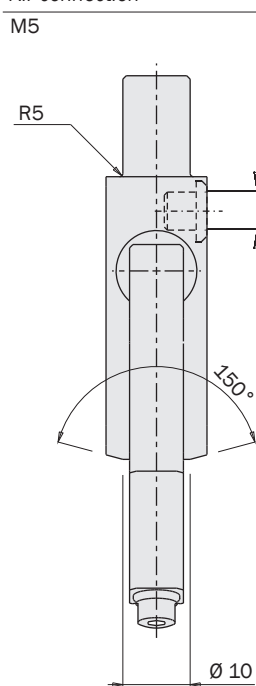
Dimensions (mm)

PB-0150

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Griffe oscillanti per materozze coniche.

Dimensioni (mm)

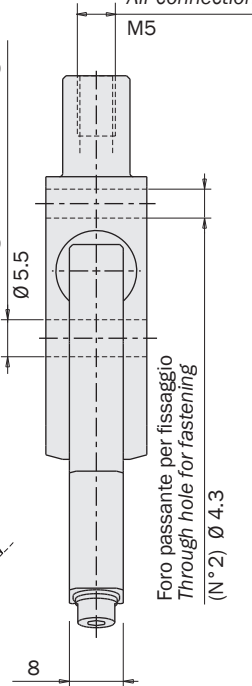
Ingresso aria
Air connection
M5

**PB-0150**

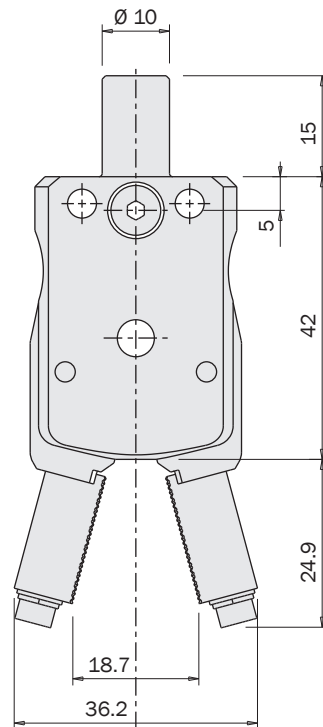
- Piston bore: 12mm.
- Single-acting with opening spring.
- Swiveling jaws for conical sprues.

Dimensions (mm)

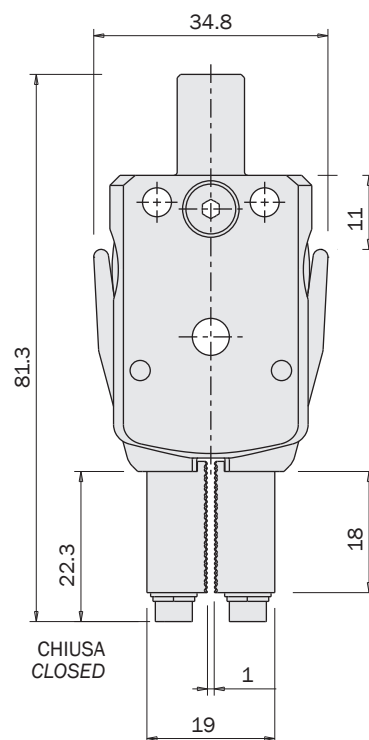
Ingresso aria
Air connection
M5



Foro passante per fissaggio
(N° 2) Ø 4.3



APERTA
OPEN

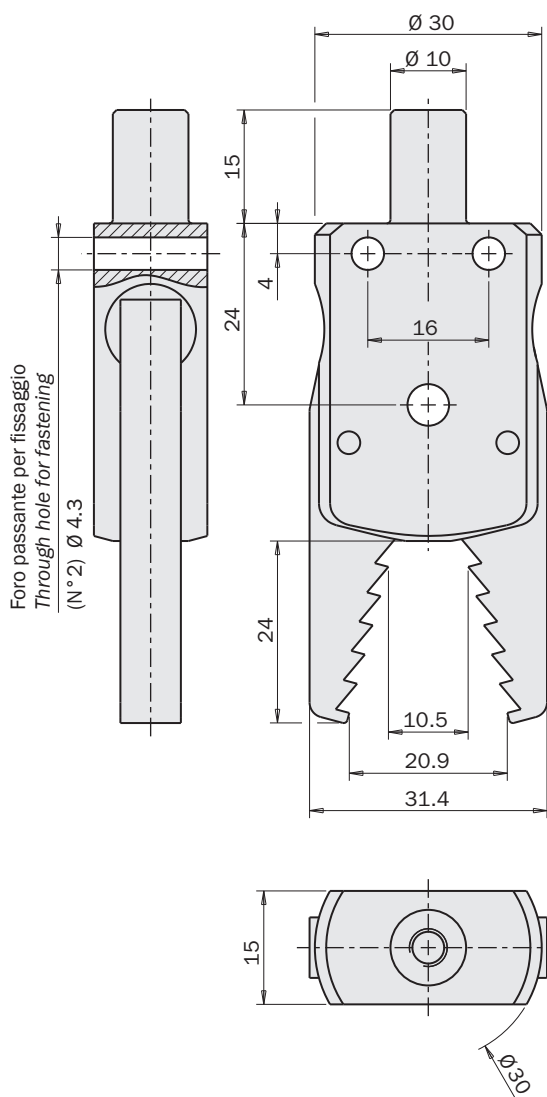


CHIUSA
CLOSED

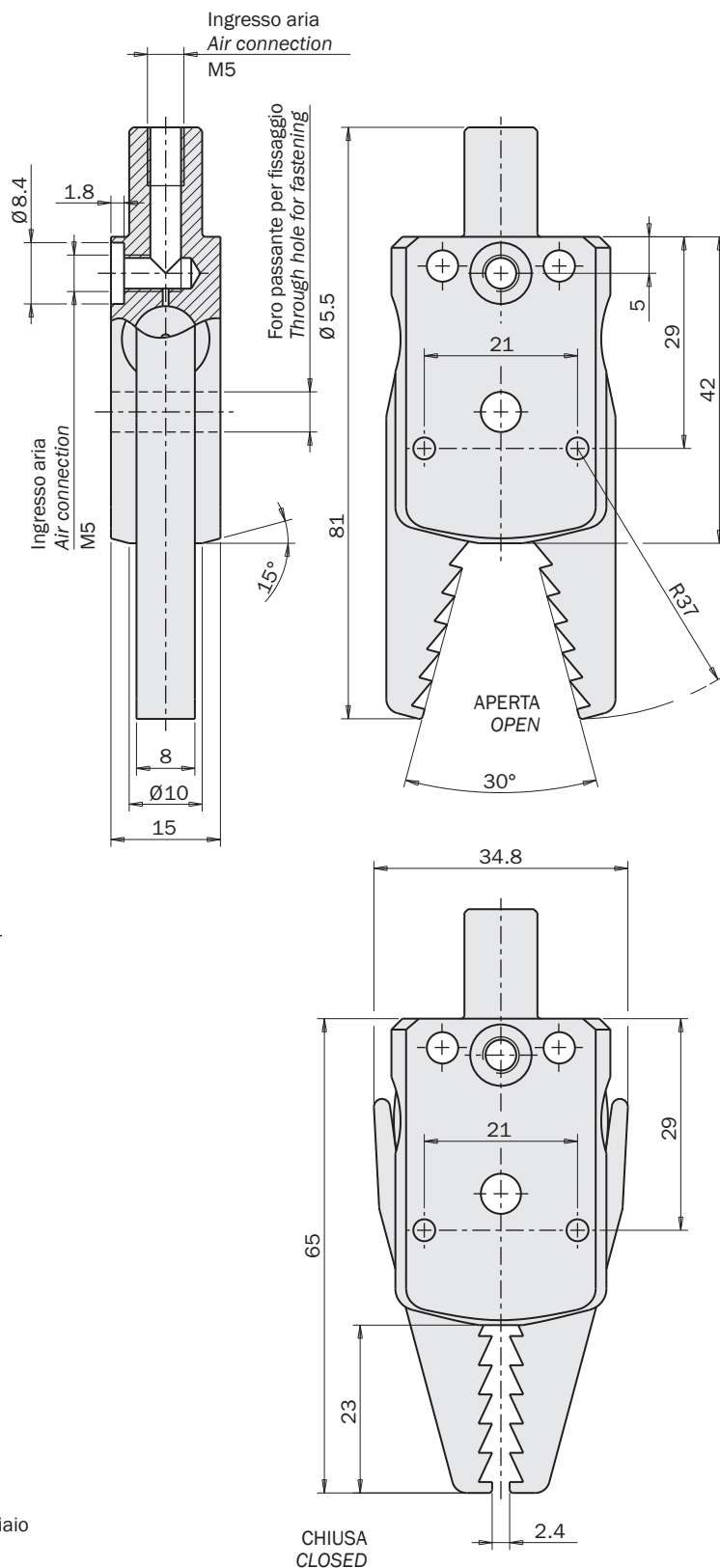
FIRST ANGLE
PROJECTION

PB-0160

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Griffe in acciaio.

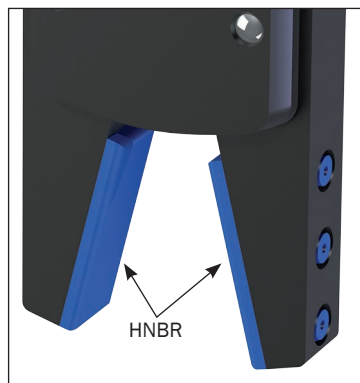
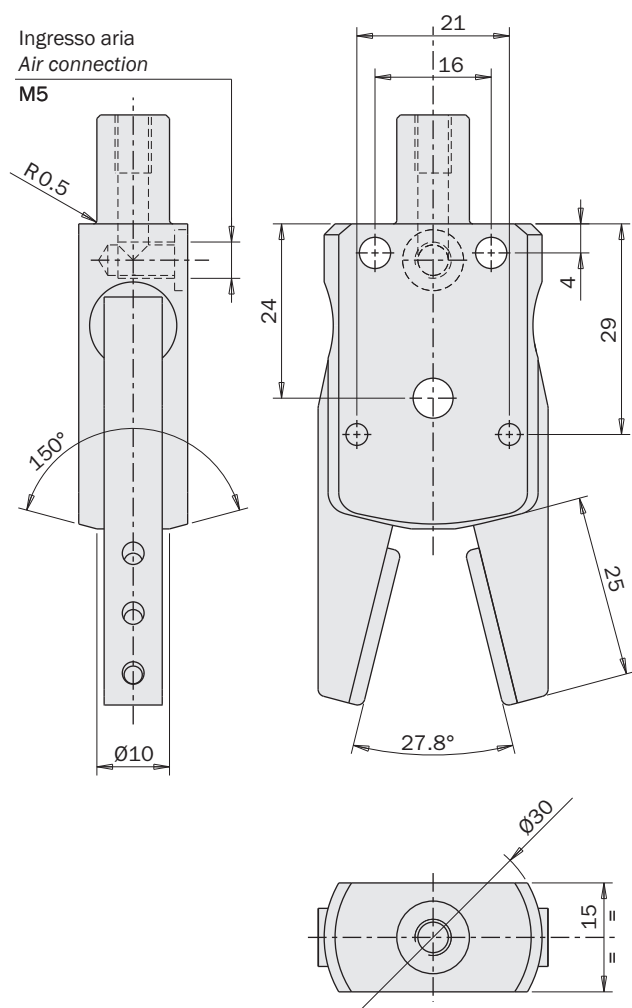
Dimensioni (mm)Griffe in acciaio
Steel jaws**PB-0160**

- Piston bore: 12mm.
- Single-acting with opening spring.
- Steel jaws.

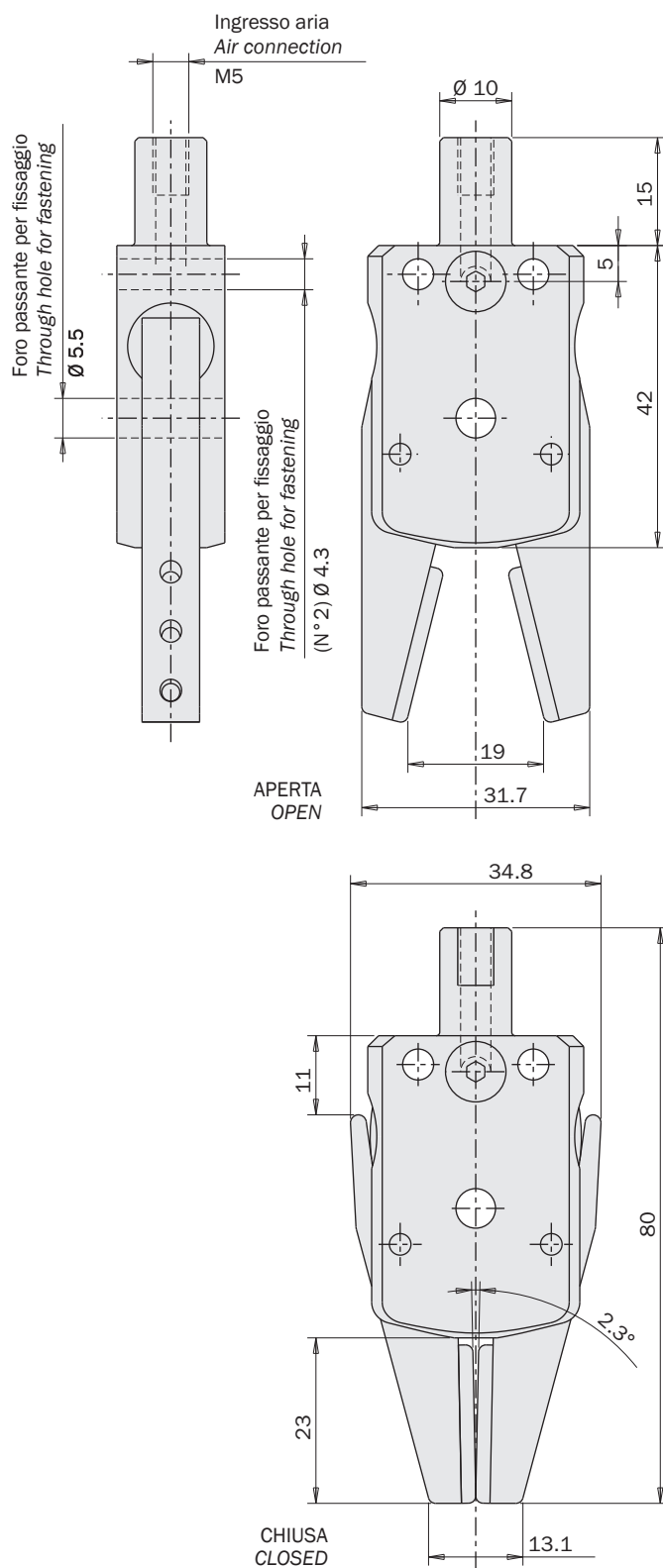
Dimensions (mm)FIRST ANGLE
PROJECTION

PB-0170

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Pastiglia in gomma (HNBR) per contatto morbido.

Dimensioni (mm)**PB-0170**

- Piston bore: 12mm.
- Single-acting with opening spring.
- Rubber (HNBR) pads for a soft contact.

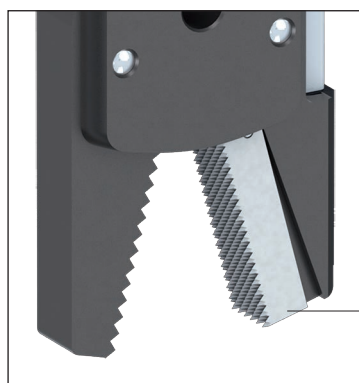
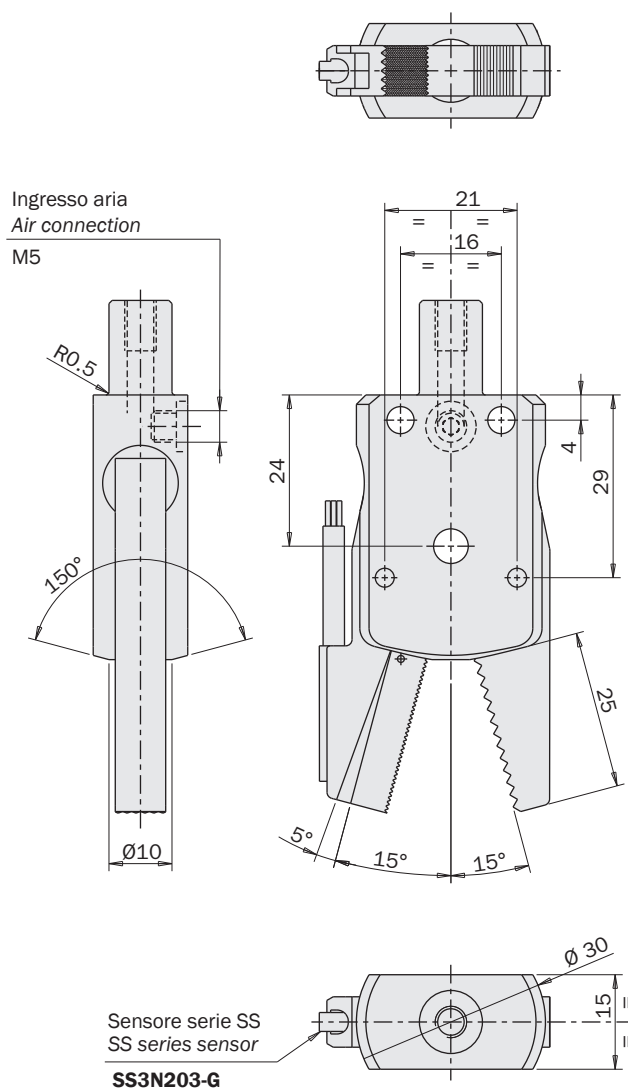
Dimensions (mm)

FIRST ANGLE
PROJECTION

PB-0180

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Sensore SS3N203-G incluso e montato sulla punta della griffa.
- Tastatore in acciaio.

Dimensioni (mm)

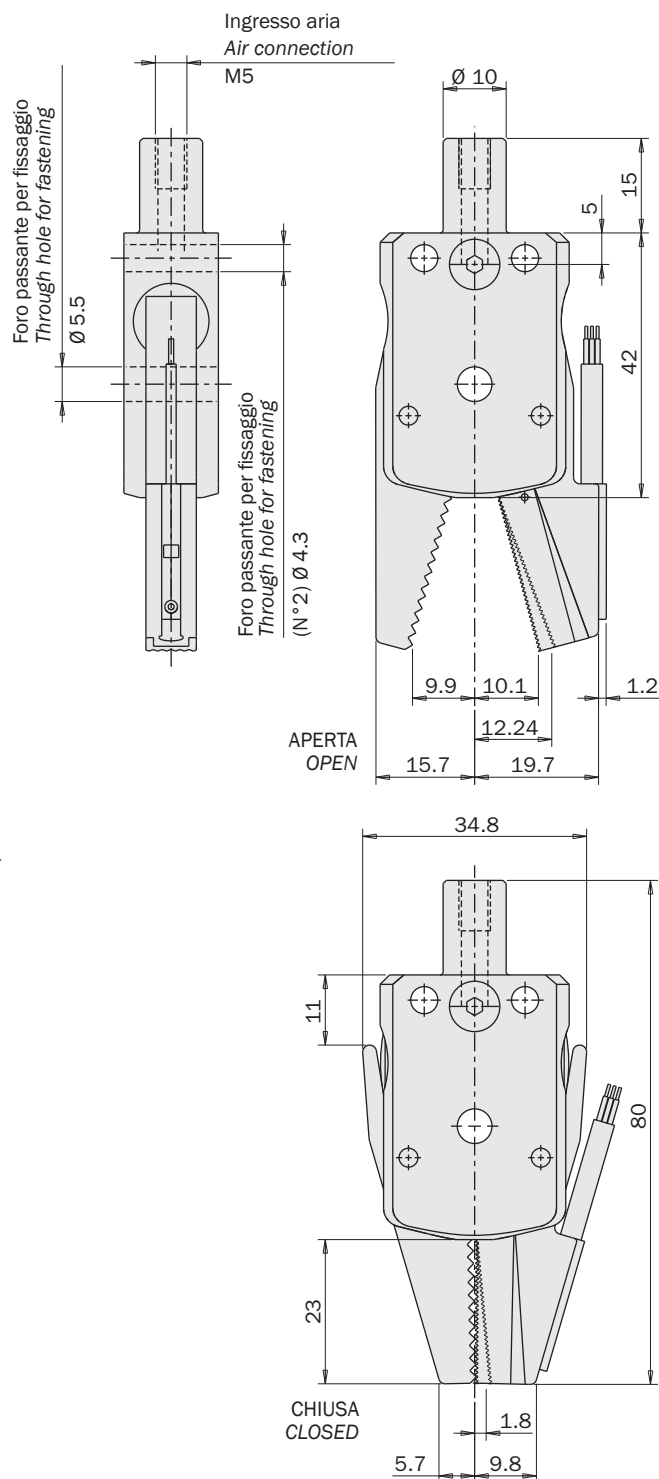


Tastatore in acciaio
Steel probe

PB-0180

- Piston bore: 12mm.
- Single-acting with opening spring.
- Sensor SS3N203-G included and fitted to the tip of the jaw.
- Steel probe.

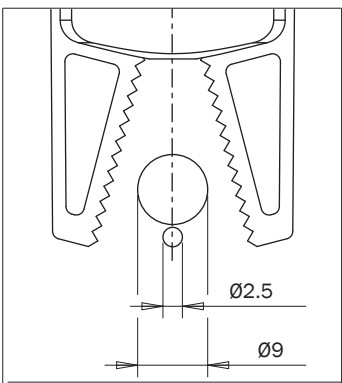
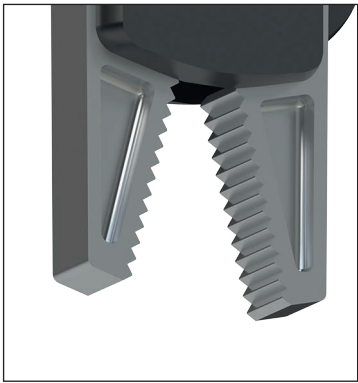
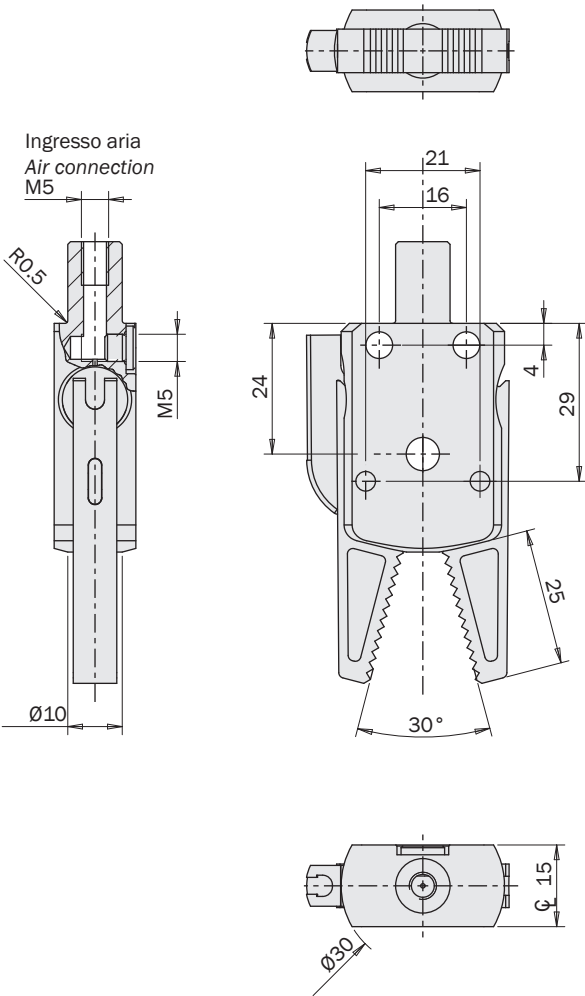
Dimensions (mm)



PB-0180-S2

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Sensore magnetico SSY opzionale con ingombro ridotto nella zona di presa.

Dimensioni (mm)

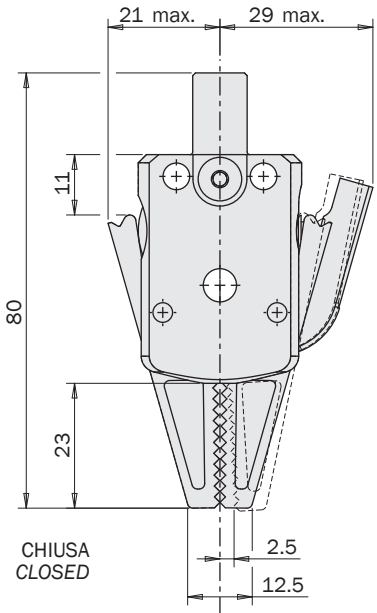
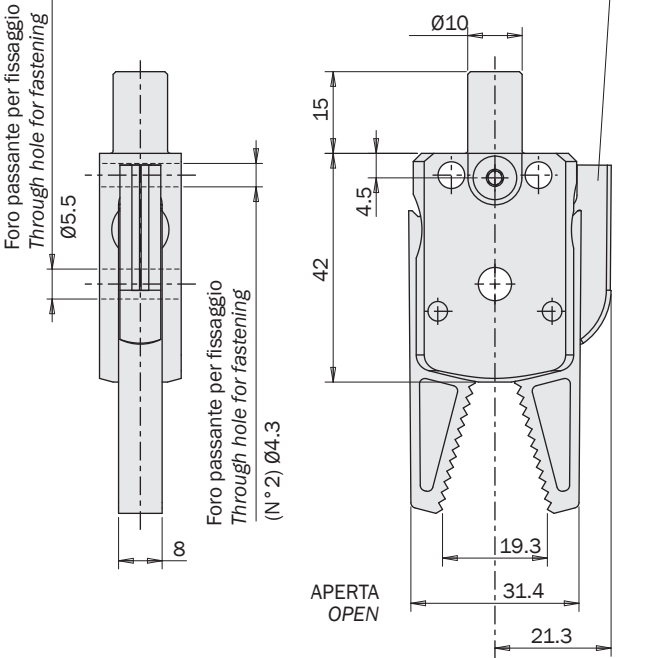


PB-0180-S2

- Piston bore: 12mm.
- Single-acting with opening spring.
- Optional magnetic sensor SSY with reduced encumbrance in the grip area.

Dimensions (mm)

I sensori opzionali sono: The optional sensors are:		
SSY4N225-G	PNP	Cavo 2.5m 2.5m cable
SSY4M225-G	NPN	
SSY3N203-G	PNP	Connettore M8 M8 snap plug connector
SSY3M203-G	NPN	

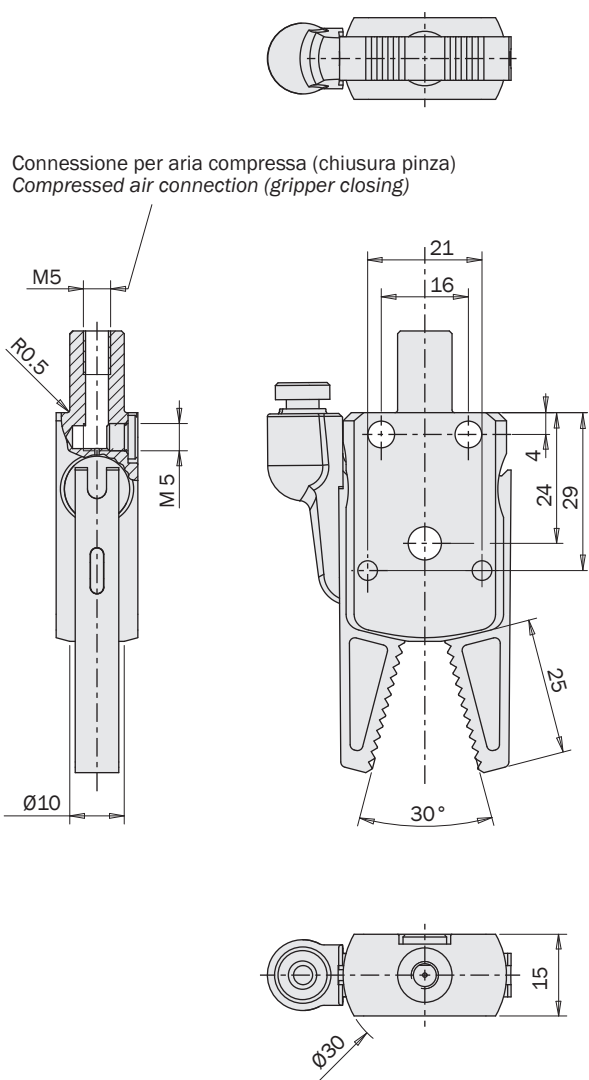


PB-0180-SV

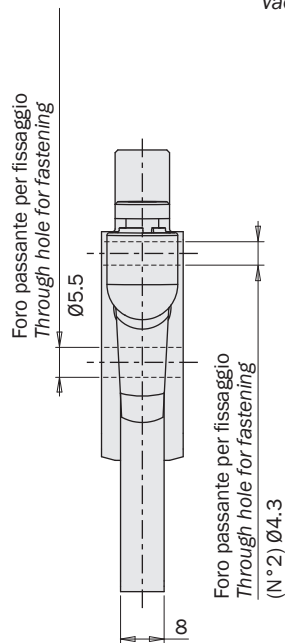
- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Rilevamento della presa con sensore di vuoto.

PB-0180-SV

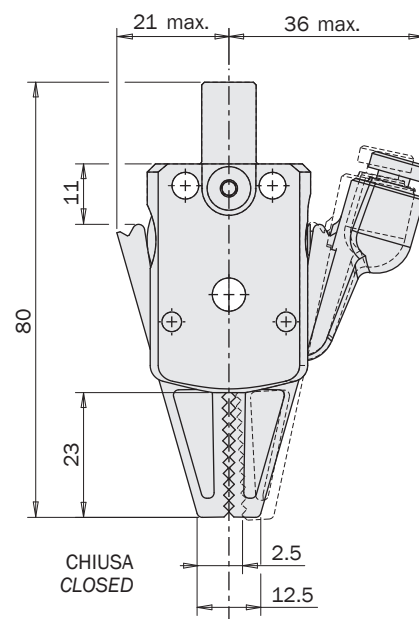
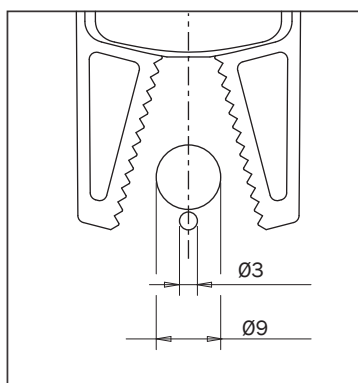
- Piston bore: 12mm.
- Single-acting with opening spring.
- Grip detection by vacuum sensor.



Connessione per aria compressa (chiusura pinza)
Compressed air connection (gripper closing)

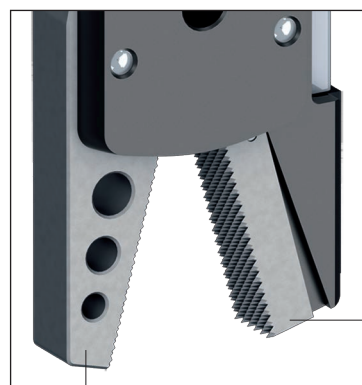
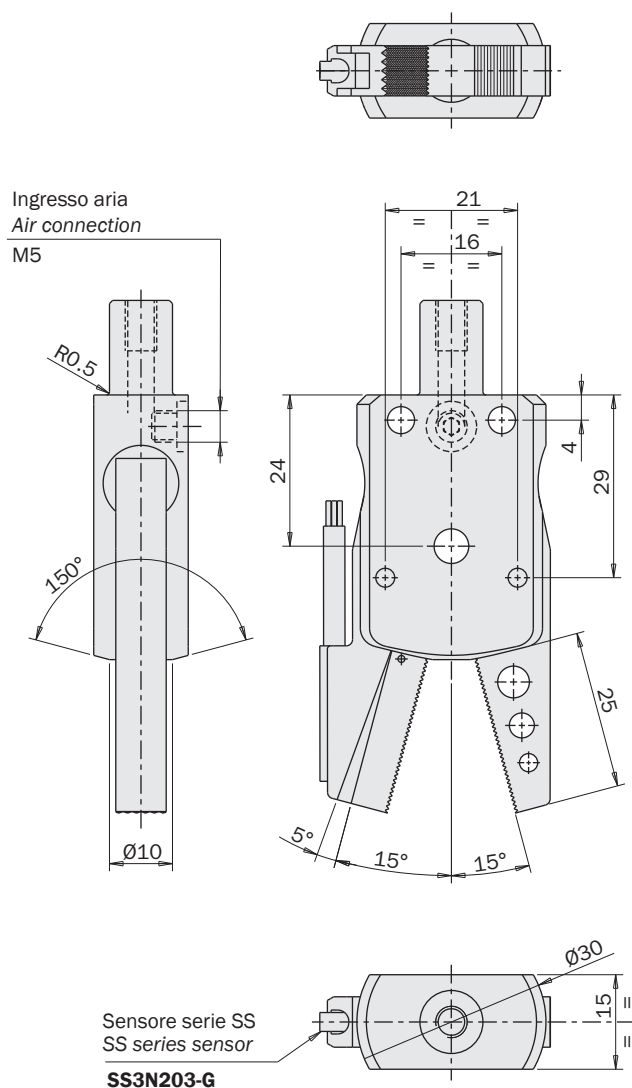


Connessione per vuoto (vacuostato remoto)
Vacuum connection (remote vacuum switch)



PB-0181

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Sensore SS3N203-G incluso e montato sulla punta della griffa.
- Griffa e tastatore in acciaio.

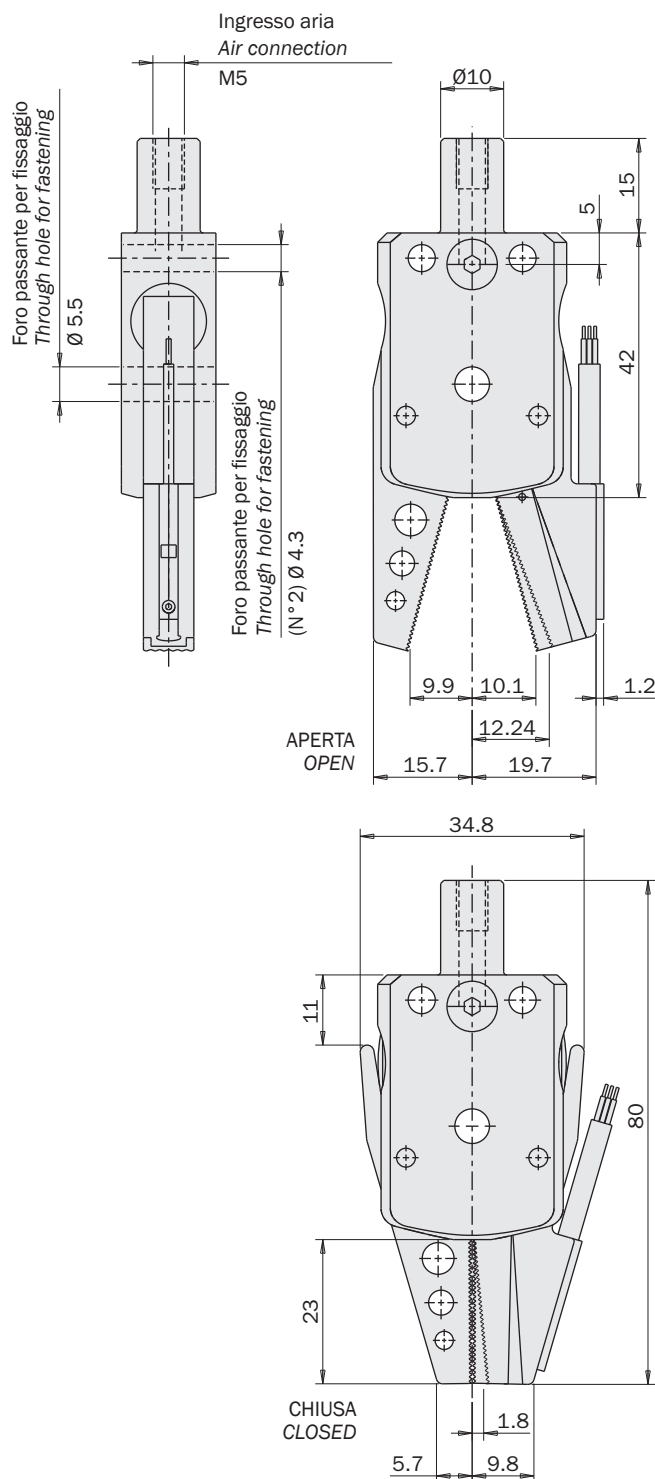
Dimensioni (mm)

Griffa in acciaio
Steel jaw

Tastatore in acciaio
Steel probe

PB-0181

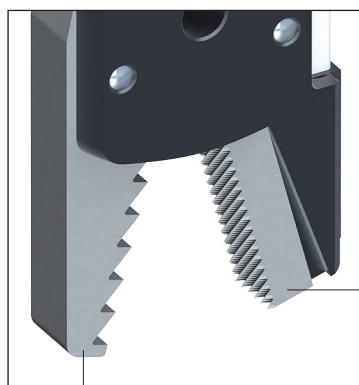
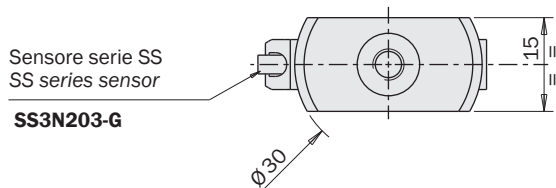
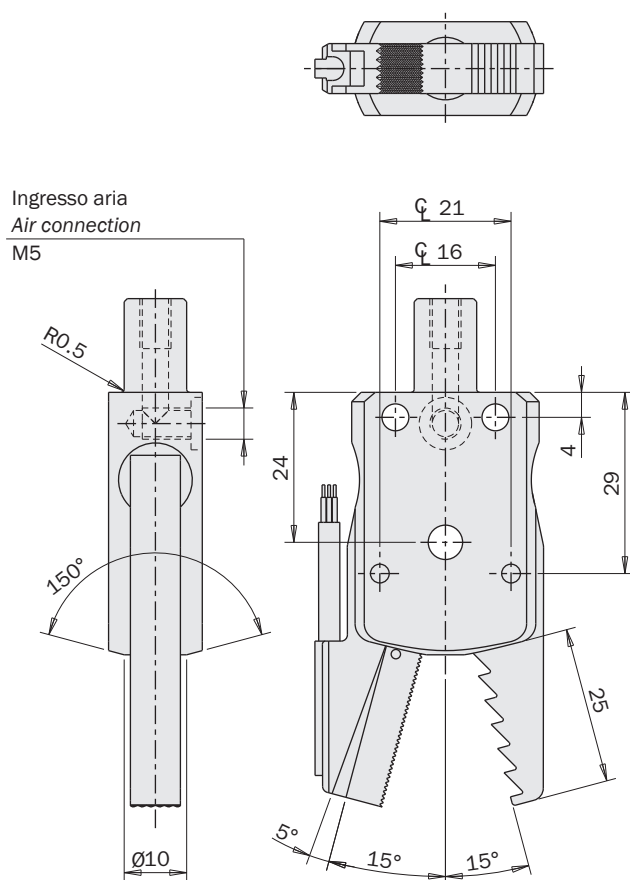
- Piston bore: 12mm.
- Single-acting with opening spring.
- Sensor SS3N203-G included and fitted to the tip of the jaw.
- Steel jaw and probe.

Dimensions (mm)

FIRST ANGLE
PROJECTION

PB-0182

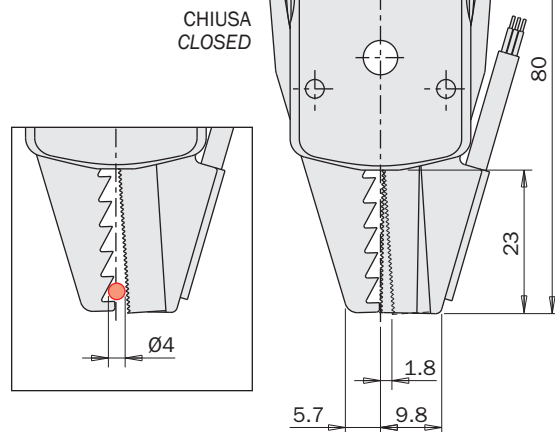
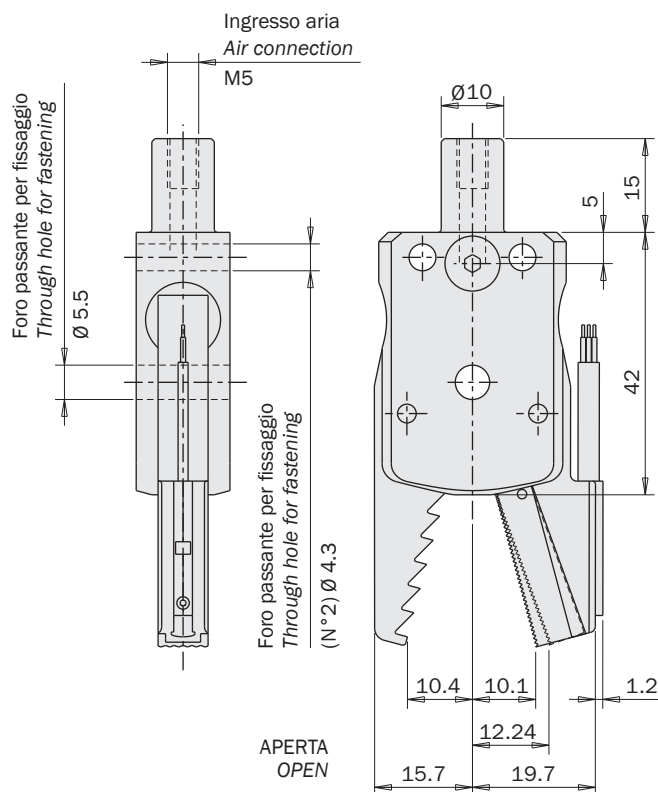
- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Sensore SS3N203-G incluso e montato sulla punta della griffa.
- Griffa e tastatore in acciaio.

Dimensioni (mm)

Griffa in acciaio
Steel jaw

PB-0182

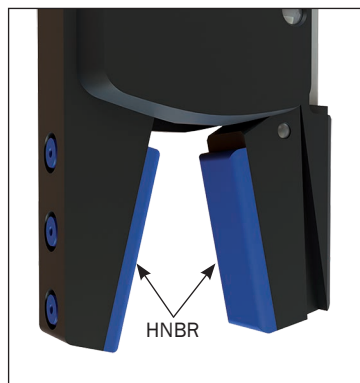
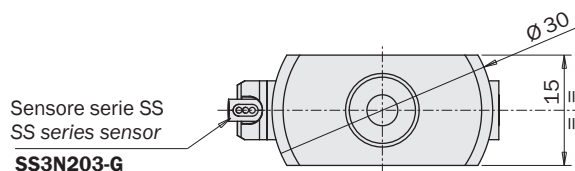
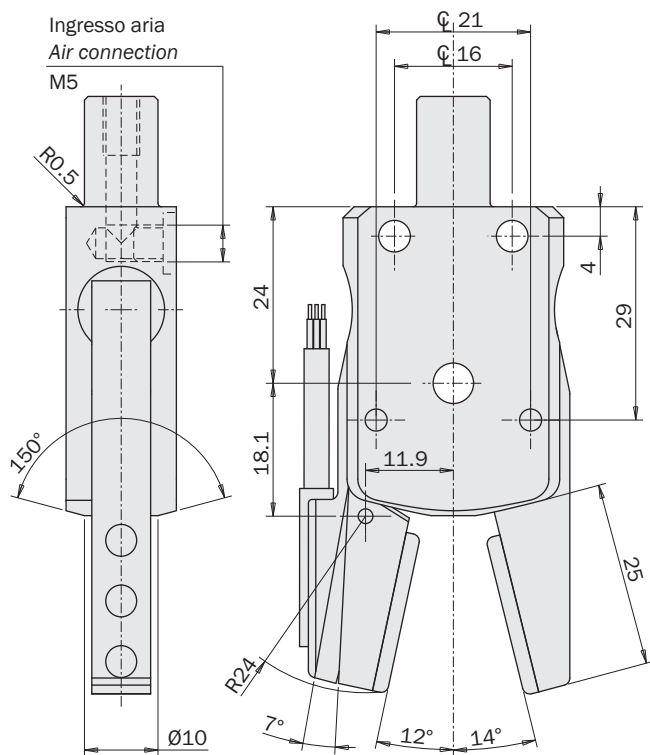
- Piston bore: 12mm.
- Single-acting with opening spring.
- Sensor SS3N203-G included and fitted to the tip of the jaw.
- Steel jaw and probe.

Dimensions (mm)

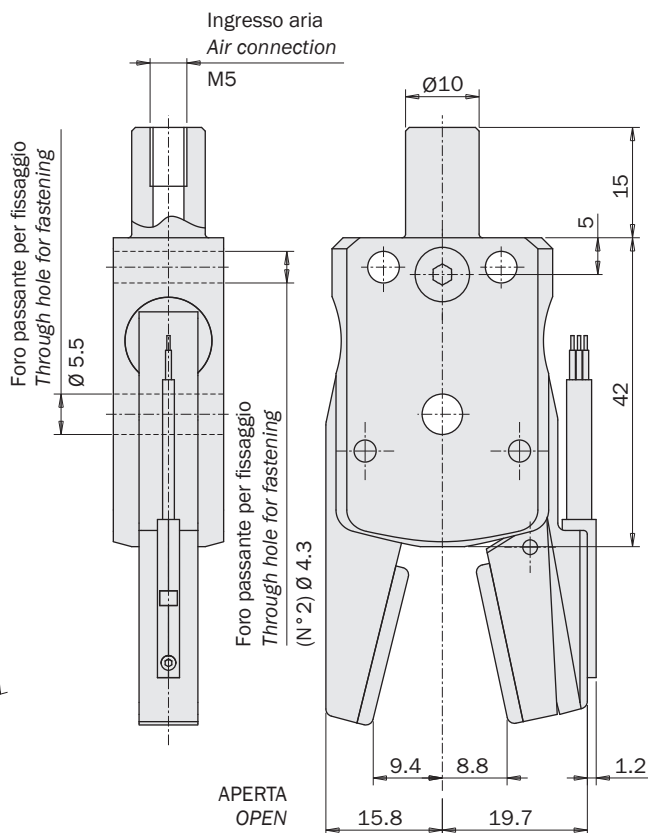
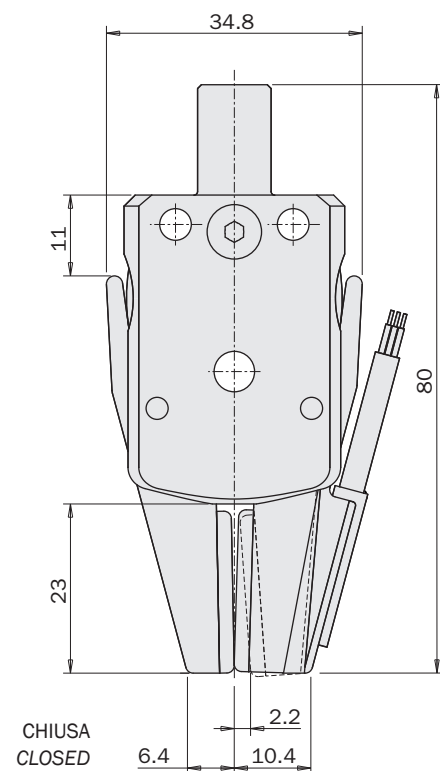
FIRST ANGLE
PROJECTION

PB-0187

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Pastiglia in gomma (HNBR) per contatto morbido.
- Sensore SS3N203-G incluso e montato sulla punta della griffa.

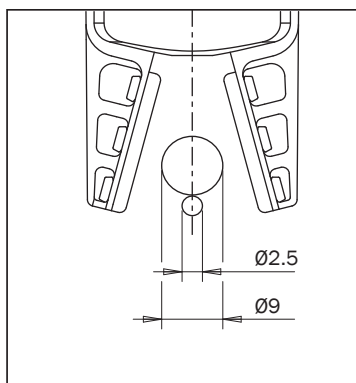
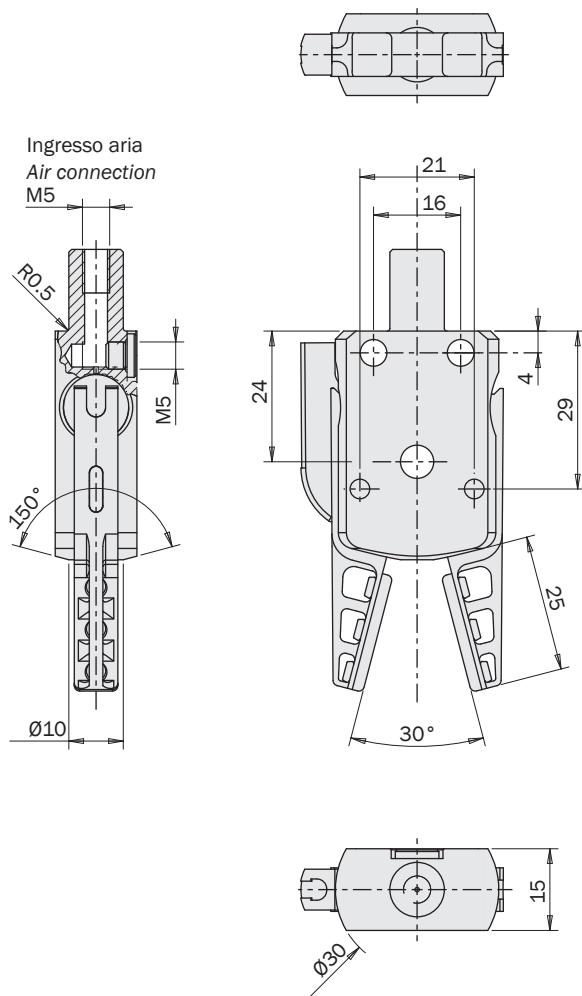
Dimensioni (mm)**PB-0187**

- Piston bore: 12mm.
- Single-acting with opening spring.
- Rubber (HNBR) pads for a soft contact.
- Sensor SS3N203-G included and fitted to the tip of the jaw.

Dimensions (mm)APERTA
OPENCHIUSA
CLOSEDFIRST ANGLE
PROJECTION

PB-0187-S2

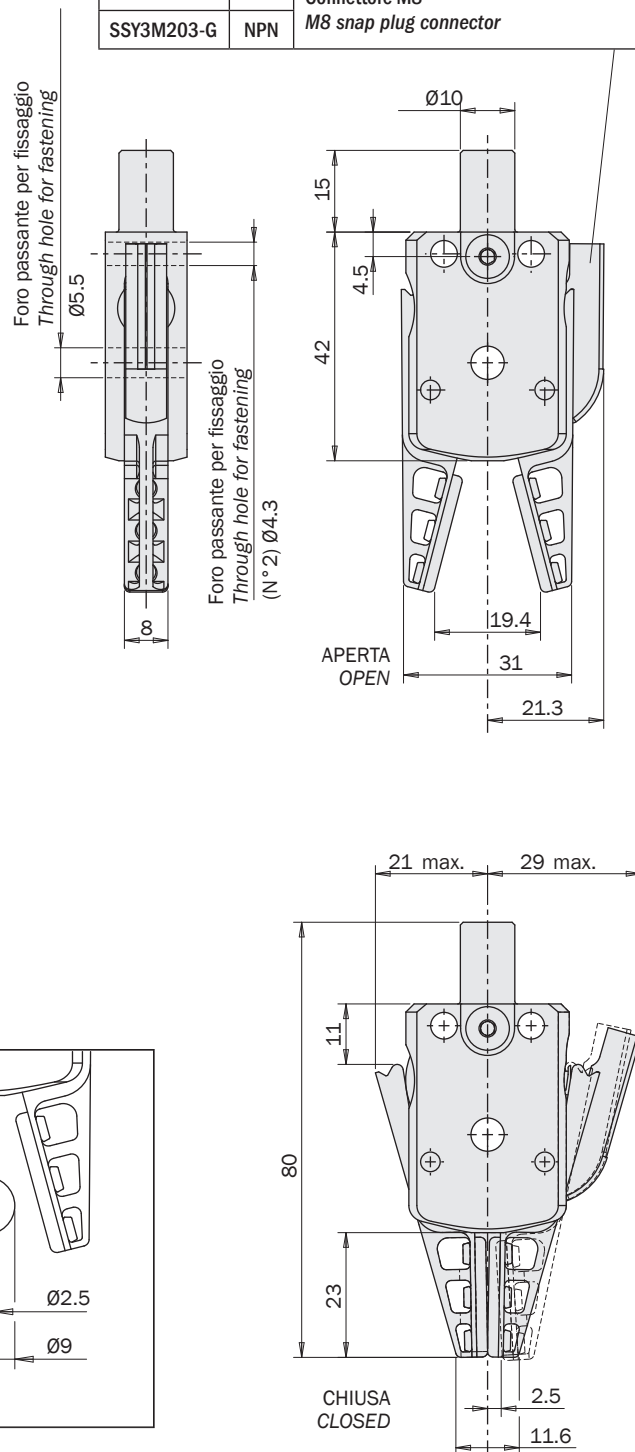
- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Pastiglia in gomma (HNBR) per contatto morbido.
- Sensore magnetico SSY opzionale con ingombro ridotto nella zona di presa.

Dimensioni (mm)**PB-0187-S2**

- Piston bore: 12mm.
- Single-acting with opening spring.
- Rubber (HNBR) pads for a soft contact.
- Optional magnetic sensor SSY with reduced encumbrance in the grip area.

Dimensions (mm)**I sensori opzionali sono:****The optional sensors are:**

SSY4N225-G	PNP	Cavo 2.5m 2.5m cable
SSY4M225-G	NPN	
SSY3N203-G	PNP	Connettore M8 M8 snap plug connector
SSY3M203-G	NPN	

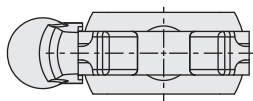


PB-0187-SV

- Alesaggio: 12mm.
- A semplice effetto con molla in apertura.
- Rilevamento della presa con sensore di vuoto.

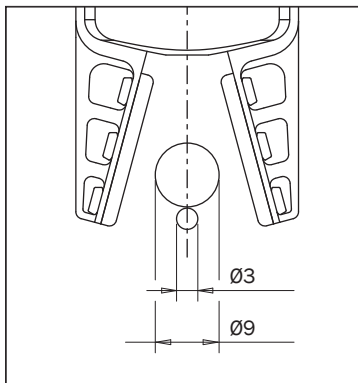
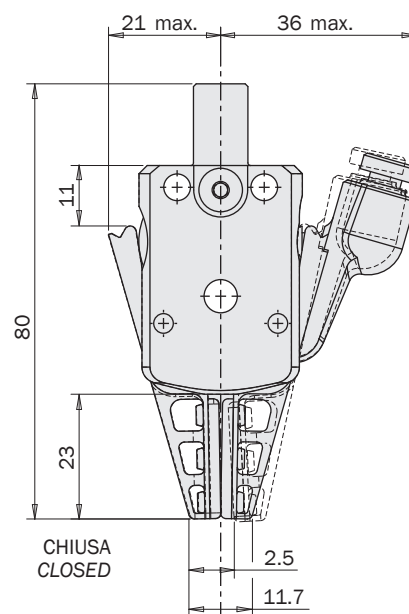
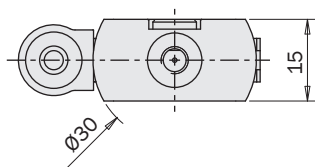
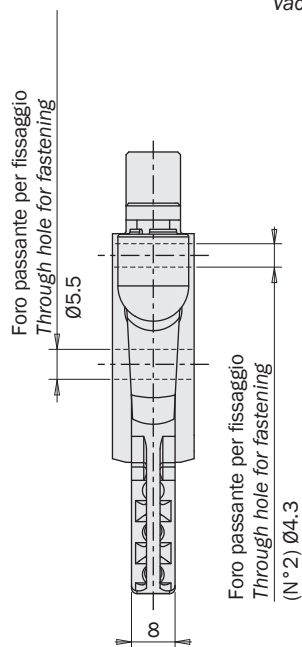
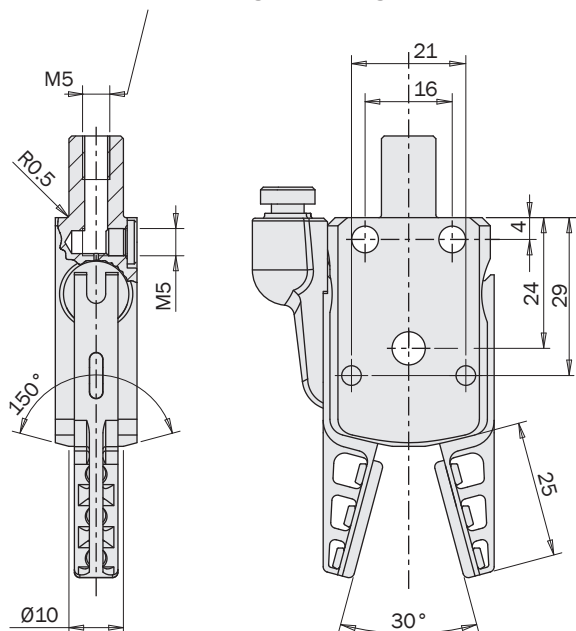
PB-0187-SV

- Piston bore: 12mm.
- Single-acting with opening spring.
- Grip detection by vacuum sensor.



Connessione per aria compressa (chiusura pinza)
Compressed air connection (gripper closing)

Connessione per vuoto (vacuostato remoto)
Vacuum connection (remote vacuum switch)

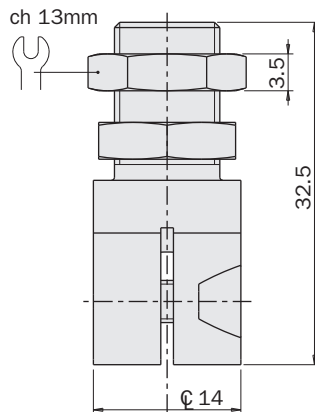
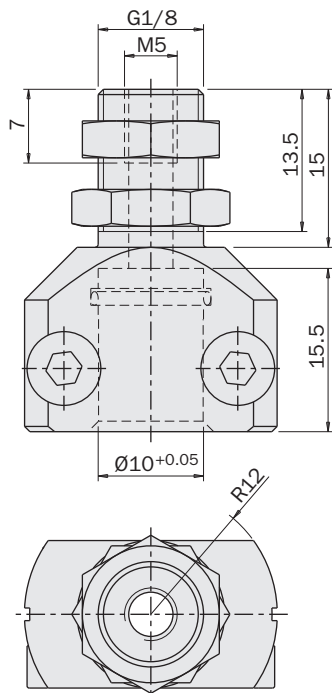


Adattatore per pinze PB

(Non per PB-0002)

Adapter fitting for PB grippers

(Not for PB-0002)



FIRST ANGLE PROJECTION

	AF10G18M
Peso Weight	18 g



Esempi di utilizzo
Application example

