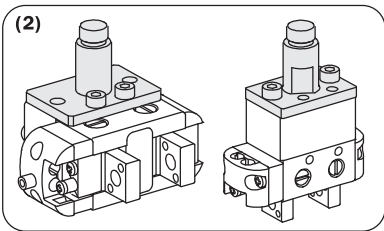
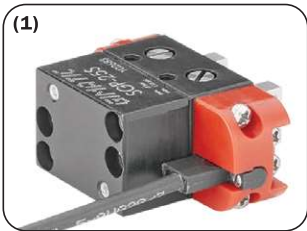


Pinza pneumatica a 2 griffe ad azione parallela autocentrante (serie SGP-S)

- Azionamento a doppio effetto.
- Meccanismo di regolazione del gioco.
- Prestazioni elevate in dimensioni ridotte.
- Costruzione robusta: grande durata e affidabilità senza manutenzione.
- Diverse possibilità di fissaggio e alimentazione.
- Predisposta per sensore magnetico programmabile PRO-SN ...HS (1).
- Grasso alimentare FDA-H1.
- Vari accessori disponibili per il fissaggio (2).

2-jaw parallel self-centering pneumatic gripper (series SGP-S)

- Double acting.
- Backlash adjusting system.
- High performance in small dimensions.
- The rugged construction lends itself to heavy duty applications for a trouble free long life without maintenance.
- Various fastening and air feeding options.
- Ready for PRO-SN ...HS (1) programmable magnetic sensor.
- Food grade grease FDA-H1.
- Several mounting accessories (2).



	SGP-16S	SGP-20S	SGP-25S	SGP-32S	SGP-40S	SGP-50S
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 Operating pressure range	2.5 ÷ 8 bar		2 ÷ 8 bar			
Temperatura di esercizio Operating temperature range	5° ÷ 60°C.					
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force at 6 bar on each jaw	16 N	23 N	52 N	67 N	80 N	145 N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	32 N	46 N	104 N	134 N	160 N	290 N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force at 6 bar on each jaw	14 N	20 N	47 N	60 N	73 N	126 N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	28 N	40 N	94 N	120 N	146 N	252 N
Corsa totale Total stroke (±0.3 mm)	3 mm	4 mm	6 mm	8 mm	12 mm	16 mm
Frequenza max funzionamento continuativo Maximum working frequency	3 Hz	3 Hz	3 Hz	3 Hz	2 Hz	2 Hz
Consumo d'aria per ciclo Cycle air consumption	0.2 cm³	0.5 cm³	1.4 cm³	2.4 cm³	4.5 cm³	10 cm³
Tempo di chiusura senza carico Closing time without load	0.02 s	0.02 s	0.02 s	0.02 s	0.05 s	0.05 s
Ripetibilità Repetition accuracy	0.02 mm	0.02 mm	0.02 mm	0.02 mm	0.02 mm	0.02 mm
Peso Weight	19 g	33 g	43 g	86 g	170 g	250 g

Sensori

Le posizioni di funzionamento possono essere verificate grazie ad un sensore programmabile a 3 uscite (non incluso), che rileva la posizione del magnete nella griffa destra.

I sensori consigliati per le pinze SGP-20S/25S/32S/40S/50S sono:

The recommended sensors for the grippers SGP-20S/25S/32S/40S/50S are:

PRO-SN4N225HS-G	PNP	Cavo 2.5m 2.5m cable
PRO-SN4M225HS-G	NPN	
PRO-SN3N215HS-G	PNP	Connettore M8 M8 snap plug connector
PRO-SN3M215HS-G	NPN	

I sensori opzionali per la pinza SGP-16S sono:

The recommended sensors for the gripper SGP-16S are:

PRO-SN4N225-G	PNP	Cavo 2.5m 2.5m cable
PRO-SN4M225-G	NPN	
PRO-SN3N215-G	PNP	Connettore M8 M8 snap plug connector
PRO-SN3M215-G	NPN	

La posizioni rilevate possono essere regolate tramite la procedura di configurazione, in questo modo le 3 uscite digitali possono essere:

Uscita 1 – griffe completamente chiuse [1];

Uscita 2 – griffe in presa dell'oggetto (posizione intermedia) [2];

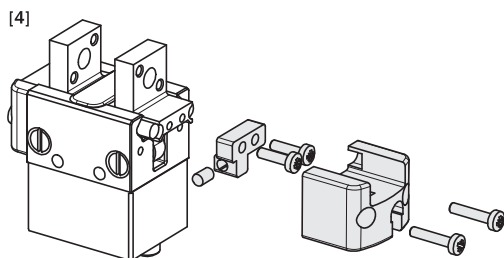
Uscita 3 – griffe completamente aperte [3].

Upgrade

Le vecchie pinze possono essere aggiornate per utilizzare il nuovo sensore programmabile [4].

Downgrade

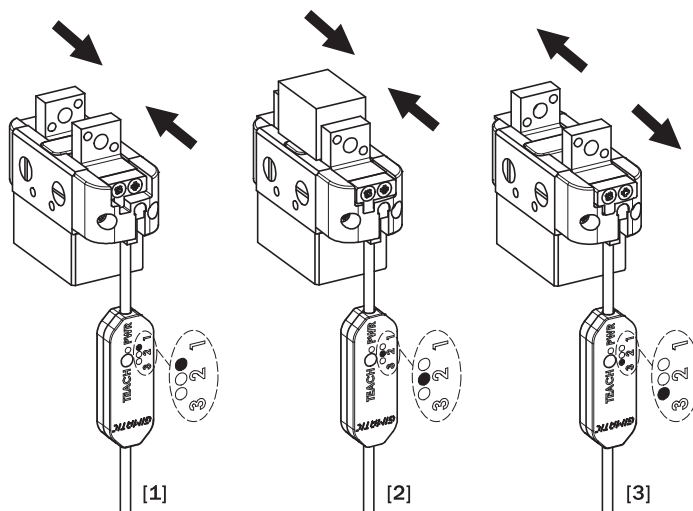
Le nuove pinze possono essere aggiornate per utilizzare i sensori induttivi [5 e 6].



	Upgrade [4]	Downgrade [5]	Downgrade [6]
SGP-16S	-	-	SGP-16S-KD
SGP-20S	SGP-20S-KU	SGP-20S-KD	-
SGP-25S	SGP-25S-KU	SGP-25S-KD	-
SGP-32S	SGP-32S-KU	SGP-32S-KD	-
SGP-40S	SGP-40S-KU	SGP-40S-KD	-
SGP-50S	-	SGP-50S-KD	-

Sensors

The operating position can be checked by one 3 - outputs programmable sensor (not included), detecting the position of the magnet on the right jaw.



The detected positions can be adjusted by a teaching procedure, so that 3 digital outputs can be:

Output 1 - totally closed jaws [1];

Output 2 - gripped part (intermediate position) [2];

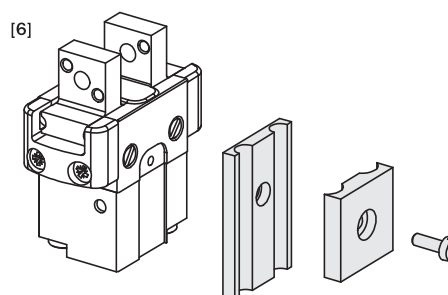
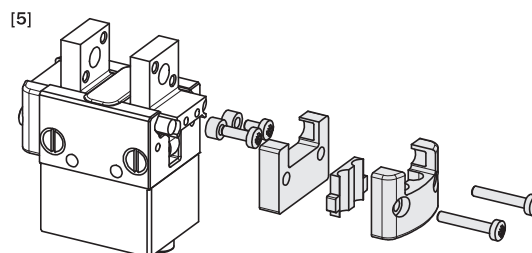
Output 3 - totally open jaws [3].

Upgrade

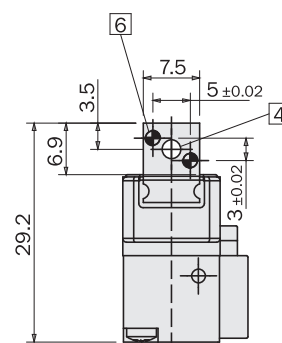
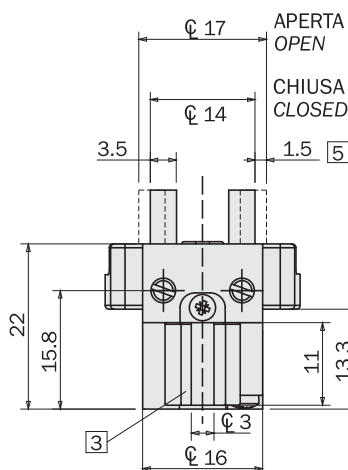
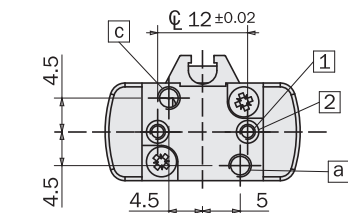
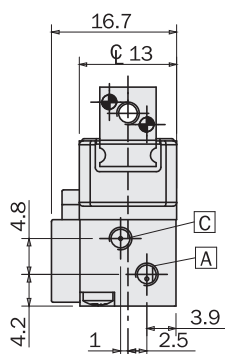
Old grippers can be upgraded in order to use the new teachable sensor [4].

Downgrade

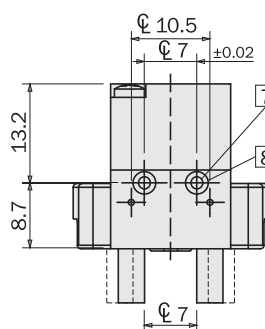
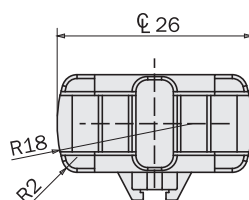
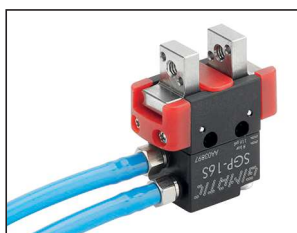
New grippers can be downgraded in order to use the inductive sensors [5 and 6].



Dimensioni (mm)
Dimensions (mm)



RG.R0-1376-AS1
 Raccordo M3 diritto
 Straight M3 fitting



1 (N°2) M2x2.8mm
 Foro per fissaggio
 Hole for fastening

2 (N°2) Ø3H8x1.2mm
 Sede per boccole di centraggio
 Hole for fastening

3 Supporto per posizionamento sensore magnetico PRO-SN/SS
 Magnetic sensor slot (PRO-SN/SS)

4 M3
 Foro passante per fissaggio
 Through hole for fastening

5 Corsa per griffa
 Stroke each jaw

6 Ø1.5H8x3.5mm
 Foro di riferimento
 Dowel pin hole

7 (N°2) M2x1.5mm
 Foro per fissaggio
 Hole for fastening

8 (N°2) Ø3H8x1.5mm
 Foro di riferimento
 Hole for fastening

a M2.5
 Aria compressa in a: apertura della pinza
 Compressed air in a: gripper opening

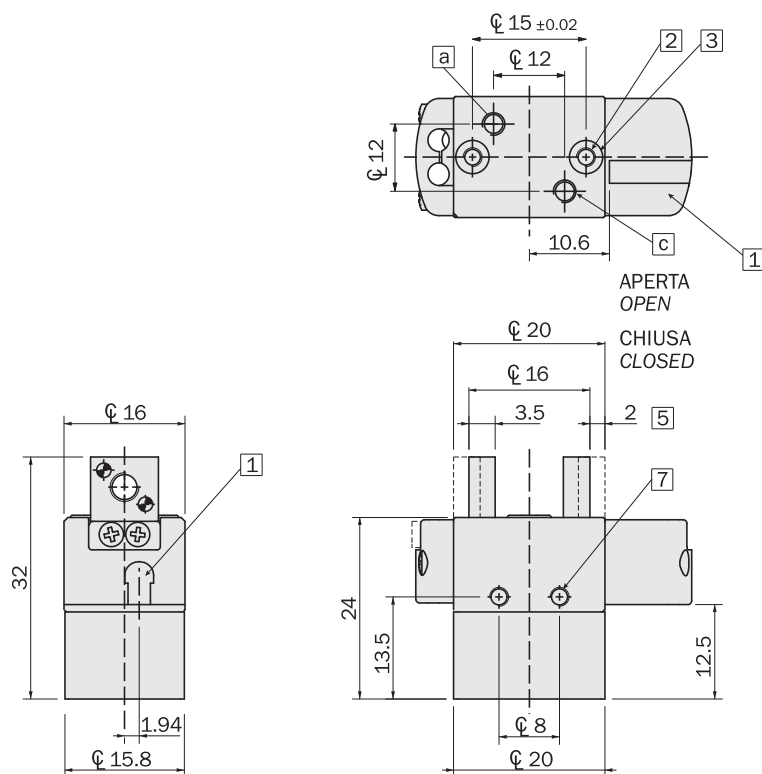
A M3
 Aria compressa in A: apertura della pinza
 Compressed air in A: gripper opening

c M2.5
 Aria compressa in c: chiusura della pinza
 Compressed air in c: gripper closing

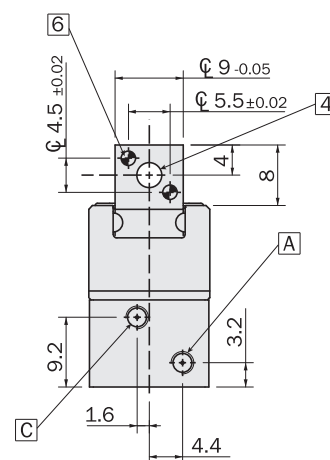
C M3
 Aria compressa in C: chiusura della pinza
 Compressed air in C: gripper closing

Dimensioni (mm)
Dimensions (mm)

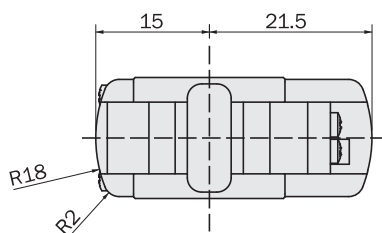
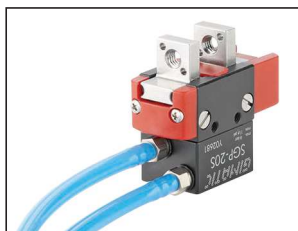
SGP-20S



- 1 Foro per sensore programmabile PRO-SN ...HS
Hole for programmable sensor PRO-SN ...HS
- 2 (N°2) M2.5x6mm
Foro per fissaggio
Hole for fastening
- 3 (N°2) Ø4H8x2mm
Sede per boccole di centraggio
Centering sleeve hole
- 4 M4
Foro passante per fissaggio
Through hole for fastening

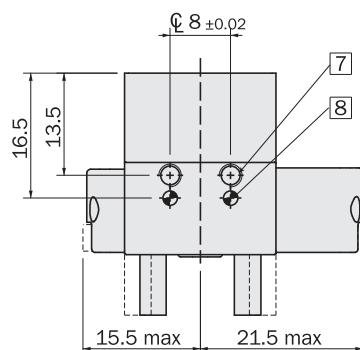
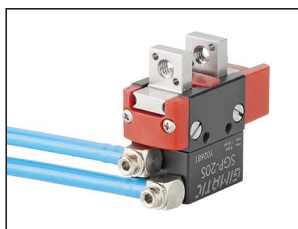


RG.RO-1376-AS1
Raccordo M3 diritto
Straight M3 fitting



- 5 Corsa per griffa
Stroke each jaw
- 6 Ø1.5H8x3.5mm
Foro di riferimento
Dowel pin hole
- 7 (N°2) M2.5x4mm
Foro per fissaggio
Hole for fastening
- 8 Ø1.5H8x3mm
Foro di riferimento
Dowel pin hole

RG.RO-1376-AS2
Raccordo M3 orientabile a "L"
Adjustable M3 fitting



- a M2.5
Aria compressa in a: apertura della pinza
Compressed air in a: gripper opening
- A M3
Aria compressa in A: apertura della pinza
Compressed air in A: gripper opening
- c M2.5
Aria compressa in c: chiusura della pinza
Compressed air in c: gripper closing
- C M3
Aria compressa in C: chiusura della pinza
Compressed air in C: gripper closing



FIRST ANGLE
PROJECTION

Dimensioni (mm)
Dimensions (mm)

SGP-25S

Foro per sensore programmabile
PRO-SN...HS
Hole for programmable sensor
PRO-SN...HS

1

(N°2) M3x7mm
Foro per fissaggio
Hole for fastening

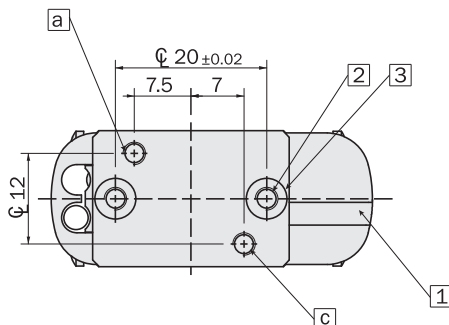
2

(N°2) Ø5H8x2.4mm
Sede per boccole di centraggio
Centering sleeve hole

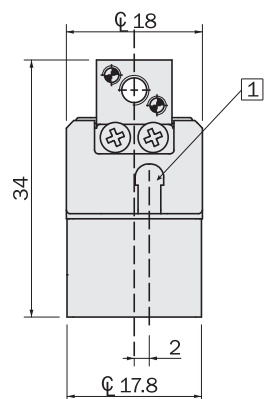
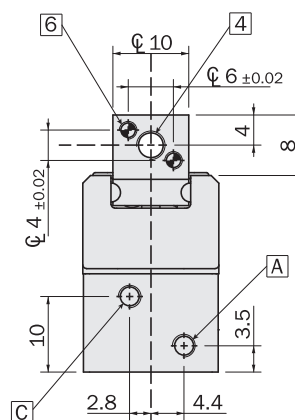
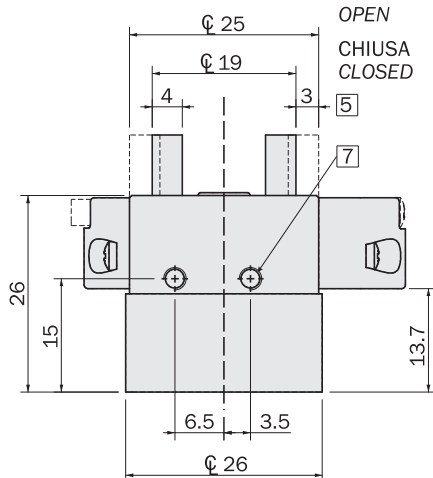
3

M4
Foro passante per fissaggio
Through hole for fastening

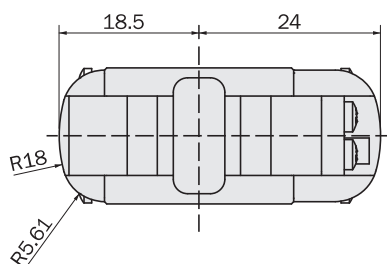
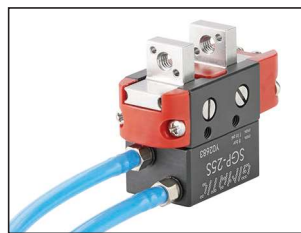
4



APERTA
OPEN
CHIUSA
CLOSED

**RG.R0-1376-AS1**

Raccordo M3 diretto
Straight M3 fitting



5 Corsa per griffa
Stroke each jaw

6 Ø1.5H8x4mm
Foro di riferimento
Dowel pin hole

7 (N°2) M3x5mm
Foro per fissaggio
Hole for fastening

8 Ø2H8x4mm
Foro di riferimento
Dowel pin hole

a M3
Aria compressa in a: apertura della pinza
Compressed air in a: gripper opening

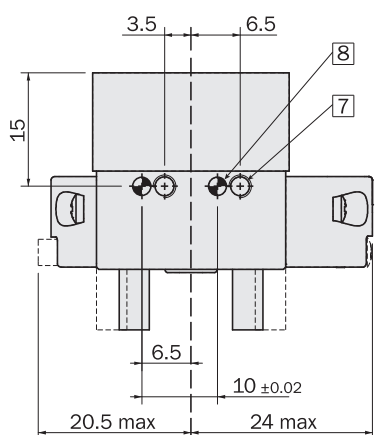
A M3
Aria compressa in A: apertura della pinza
Compressed air in A: gripper opening

c M3
Aria compressa in c: chiusura della pinza
Compressed air in c: gripper closing

C M3
Aria compressa in C: chiusura della pinza
Compressed air in C: gripper closing

RG.R0-1376-AS2

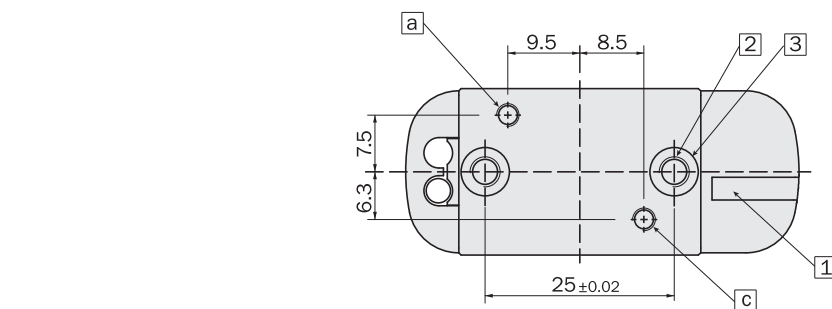
Raccordo M3 orientabile a "L"
Adjustable M3 fitting



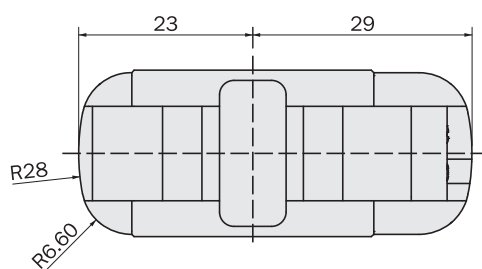
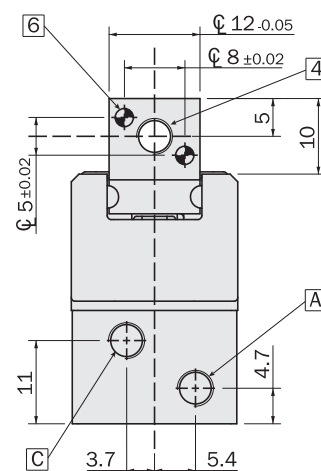
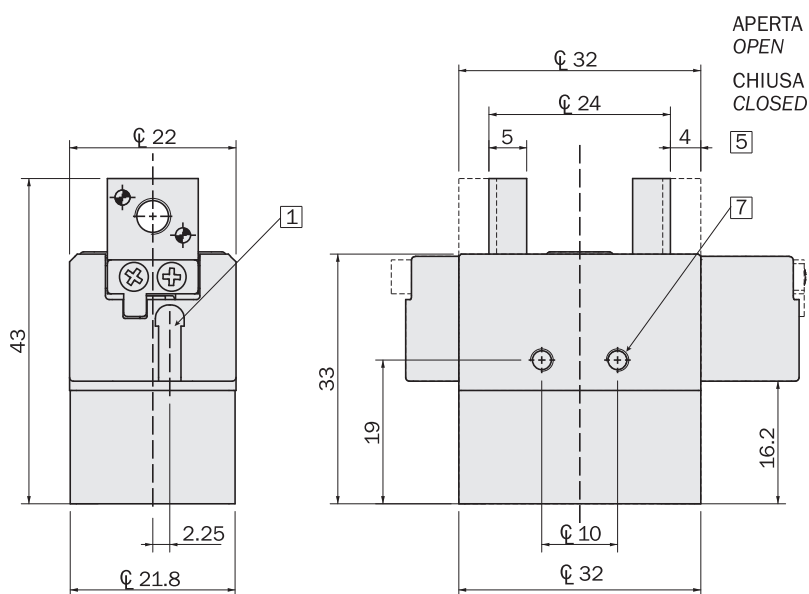
FIRST ANGLE
PROJECTION

Dimensioni (mm)
Dimensions (mm)

SGP-32S



- 1** Foro per sensore programmabile
PRO-SN...HS
*Hole for programmable sensor
PRO-SN...HS*
- 2** (N°2) M4x7.5mm
Foro per fissaggio
Hole for fastening
- 3** (N°2) Ø6H8x2.9mm
Sede per boccole di centraggio
Centering sleeve hole
- 4** M5
Foro passante per fissaggio
Through hole for fastening



- 5** Corsa per griffa
Stroke each jaw
- 6** Ø2H8x5mm
Foro di riferimento
Dowel pin hole
- 7** (N°2) M3x5mm
Foro per fissaggio
Hole for fastening
- 8** Ø2H8x5mm
Foro di riferimento
Dowel pin hole
- a** M3
Aria compressa in a: apertura della pinza
Compressed air in a: gripper opening
- A** M5
Aria compressa in A: apertura della pinza
Compressed air in A: gripper opening
- c** M3
Aria compressa in c: chiusura della pinza
Compressed air in c: gripper closing
- C** M5
Aria compressa in C: chiusura della pinza
Compressed air in C: gripper closing



Dimensioni (mm)
Dimensions (mm)

Foro per sensore programmabile
PRO-SN...HS
Hole for programmable sensor
PRO-SN...HS

1

(N°2) M4x9.5mm
Foro per fissaggio
Hole for fastening

2

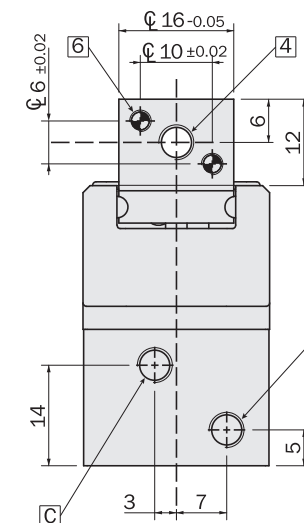
(N°2) Ø6H8x2.9mm
Sede per boccole di centraggio
Centering sleeve hole

3

M5
Foro passante per fissaggio
Through hole for fastening

4

APERTA
OPEN
CHIUSA
CLOSED



5 Corsa per griffa
Stroke each jaw

6 Ø2.5H8x6mm
Foro di riferimento
Dowel pin hole

7 (N°2) M3x5mm
Foro per fissaggio
Hole for fastening

8 Ø2.5H8x6mm
Foro di riferimento
Dowel pin hole

a M3
Aria compressa in a: apertura della pinza
Compressed air in a: gripper opening

A M5
Aria compressa in A: apertura della pinza
Compressed air in A: gripper opening

c M3
Aria compressa in c: chiusura della pinza
Compressed air in c: gripper closing

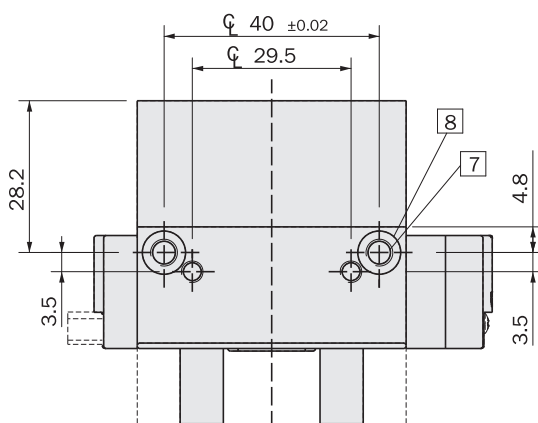
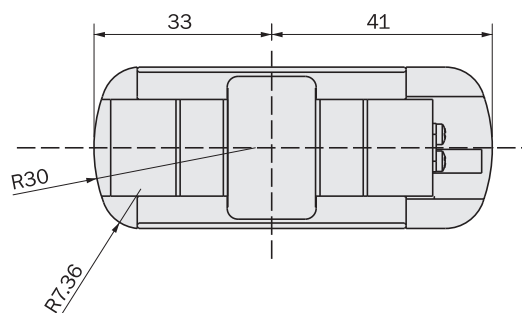
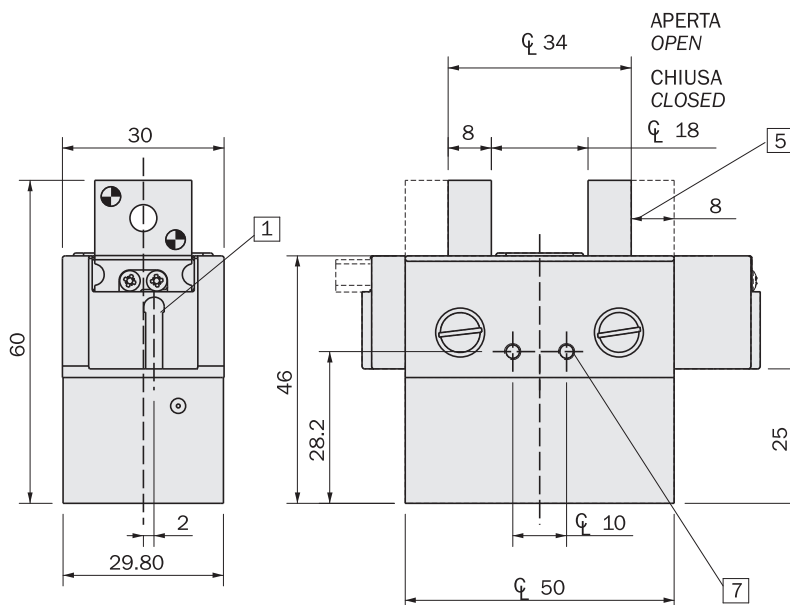
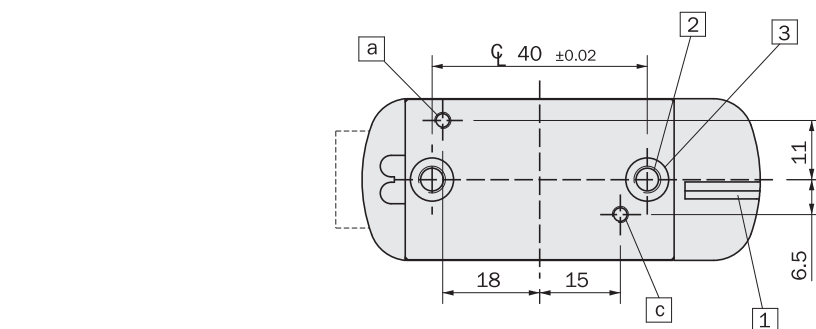
C M5
Aria compressa in C: chiusura della pinza
Compressed air in C: gripper closing



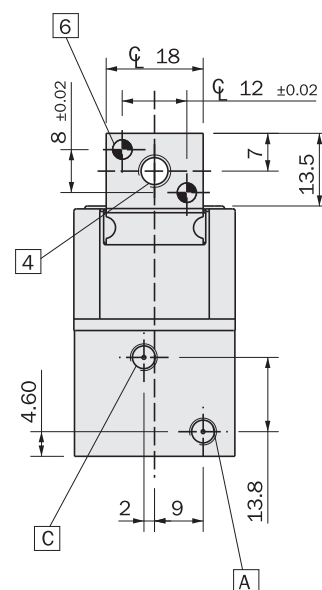
FIRST ANGLE
PROJECTION

Dimensioni (mm)
Dimensions (mm)

SGP-50S



- 1** Foro per sensore programmabile
PRO-SN...HS
Hole for programmable sensor
PRO-SN...HS
- 2** (N°2) M5x5.9mm
Foro per fissaggio
Hole for fastening
- 3** (N°2) Ø8H8x2.9mm
Sede per boccole di centraggio
Centering sleeve hole
- 4** M6
Foro passante per fissaggio
Through hole for fastening



- 5** Corsa per griffa
Stroke each jaw
- 6** Ø3H8x8mm
Foro di riferimento
Dowel pin hole
- 7** (N°2) M5x5.5mm
Foro per fissaggio
Hole for fastening
- 8** Ø8H8x2.5mm
Sede per boccole di centraggio
Centering sleeve hole
- a** M3
Aria compressa in a: apertura della pinza
Compressed air in a: gripper opening
- A** M5
Aria compressa in A: apertura della pinza
Compressed air in A: gripper opening
- c** M3
Aria compressa in c: chiusura della pinza
Compressed air in c: gripper closing
- C** M5
Aria compressa in C: chiusura della pinza
Compressed air in C: gripper closing