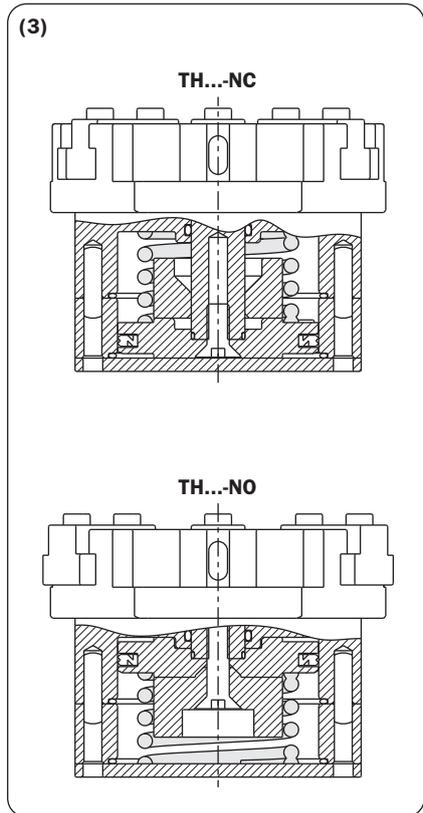
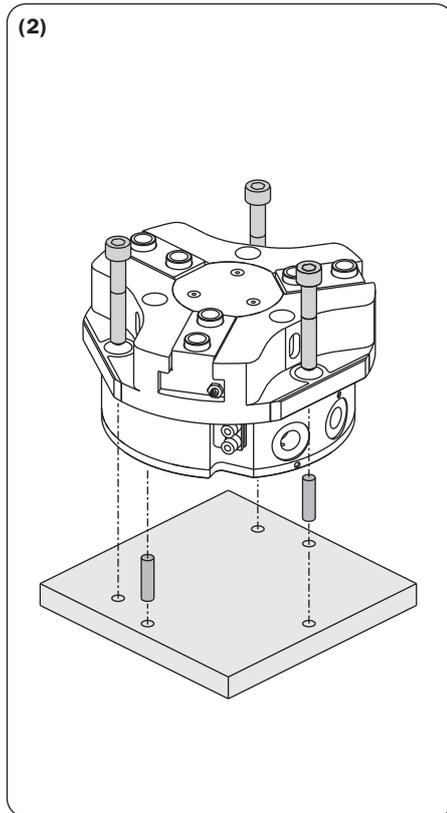
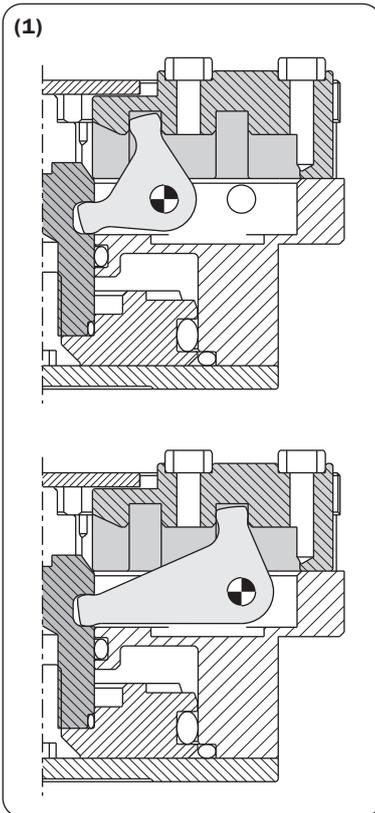


**Pinza pneumatica autocentrante a 3 griffe (serie TH)**

- Azionamento a doppio effetto, con molle opzionali (in chiusura o apertura) (3).
- Corsa lunga o corsa corta (1).
- Possibilità di fissaggio frontale con viti passanti (2).
- Meccanismo di trasmissione ad alta efficienza (1).
- Sensori magnetici o induttivi opzionali.
- Grasso alimentare FDA-H1.

**3-jaw self-centring pneumatic gripper (series TH)**

- Double acting with optional springs (normally closed or normally open) (3).
- Long stroke or short stroke (1).
- Possibility of front fastening with through screws (2).
- High efficiency force transmission (1).
- Optional magnetic or inductive sensors.
- FDA-H1 food-grade grease.



## Spintore opzionale

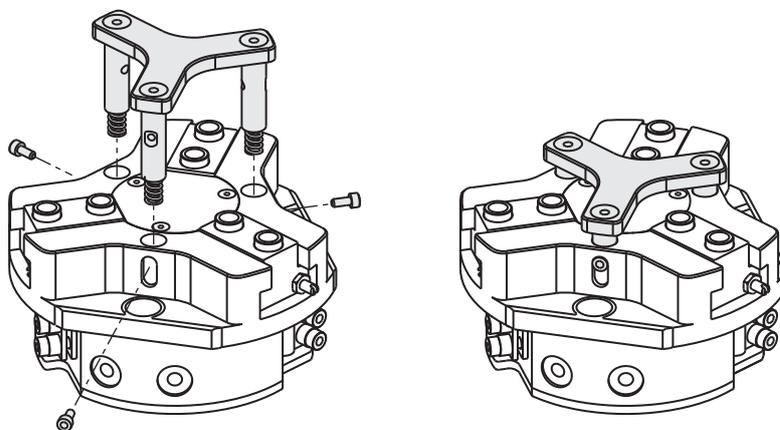
Questo accessorio si può installare sulle pinze TH, per tenere premuto il pezzo durante il rilascio, con una Forza F.  
Ad esempio quando si carica il mandrino di una macchina utensile.

Viene fornito smontato, con i codici indicati in tabella.

## Optional pusher

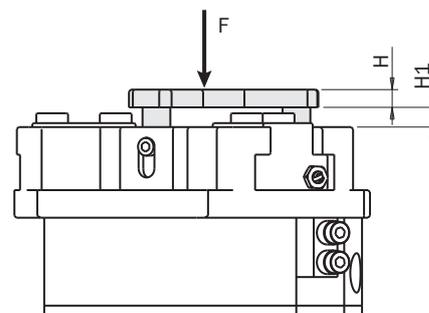
This accessory can be installed in the TH grippers, to hold the payload during the gripper release, by a pushing force F.  
As an example, when the chuck of a machining equipment is loaded.

It is supplied disassembled, with the codes in the table below.



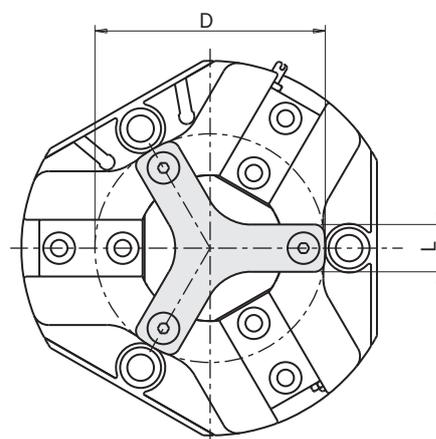
## Forza Force

	TH27K	TH33K	TH45K	TH54K	TH76K	TH96K	TH125K
F	10N	15N	20N	30N	50N	100N	200N



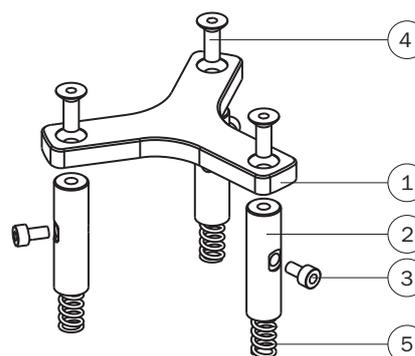
## Dimensioni (mm) Dimensions (mm)

	TH27K	TH33K	TH45K	TH54K	TH76K	TH96K	TH125K
D	Ø28	Ø37	Ø44	Ø58	Ø74	Ø86	Ø118
H	3.5	4	4	4.5	5.5	5.5	6
H1	0÷2.5	0÷3	0÷4	0÷5	0÷5	0÷6	0÷6
L	6.5	8	10	12	14	16	19
m	10g	20g	30g	50g	100g	170g	285g



## Elenco delle parti Part list

	TH27K	TH33K	TH45K	TH54K	TH76K	TH96K	TH125K
1	TH2725-14	TH3304-15	TH4506-09	TH5408-22	TH7610-10	TH9613-10	TH12516-17
2	TH2725-15	TH3304-14	TH4506-10	TH5408-23	TH7610-11	TH9613-11	TH12516-18
3	VITE-434 M1.6x3 DIN7985	VITE-435 M2x4 DIN7985	VITE-436 M2x5 DIN912	VITE-217 M2.5x6 DIN912	VITE-017 M3x6 DIN912	VITE-009 M4x8 DIN912	VITE-275 M4x8 DIN912
4	VITE-068 M2x6 DIN965	VITE-170 M2.5x6 DIN965	VITE-306 M3x8 DIN7991	VITE-305 M4x8 DIN7991	VITE-437 M4x12 DIN7991	VITE-438 M5x12 DIN7991	VITE-438 M5x12 DIN7991
5	TH2725-16	TH3304-16	TH4506-11	TH5408-24	TH7610-12	TH9613-12	TH12516-19



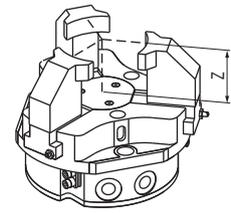
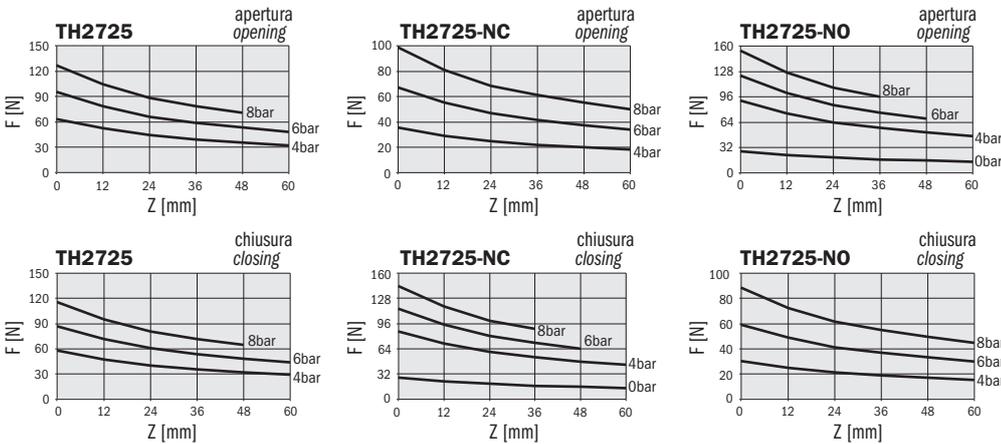
	TH2725	TH2725-NC	TH2725-NO
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]		
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 100°C.		
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force on each jaw at 6 bar	95N	65 ÷ 70N	121 ÷ 125N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	285N	195 ÷ 210N	363 ÷ 375N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force on each jaw at 6 bar	87N	112 ÷ 117N	57 ÷ 61N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	261N	336 ÷ 351N	171 ÷ 183N
Corsa Stroke (±0.2 mm)	3x2.5mm	3x2.5mm	3x2.5mm
Frequenza max funzionamento Maximum working frequency	3Hz	3Hz	3Hz
Consumo d'aria per ciclo Cycle air consumption	3cm <sup>3</sup>	6cm <sup>3</sup>	6cm <sup>3</sup>
Tempo minimo di chiusura / apertura Closing / opening minimum time	0.02s / 0.02s	0.01s / 0.02s	0.03s / 0.01s
Ripetibilità Repetition accuracy	0.02mm	0.02mm	0.02mm
Peso Weight	117g	140g	139g

**Forza di serraggio**

I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione e del braccio di leva Z.

**Gripping force**

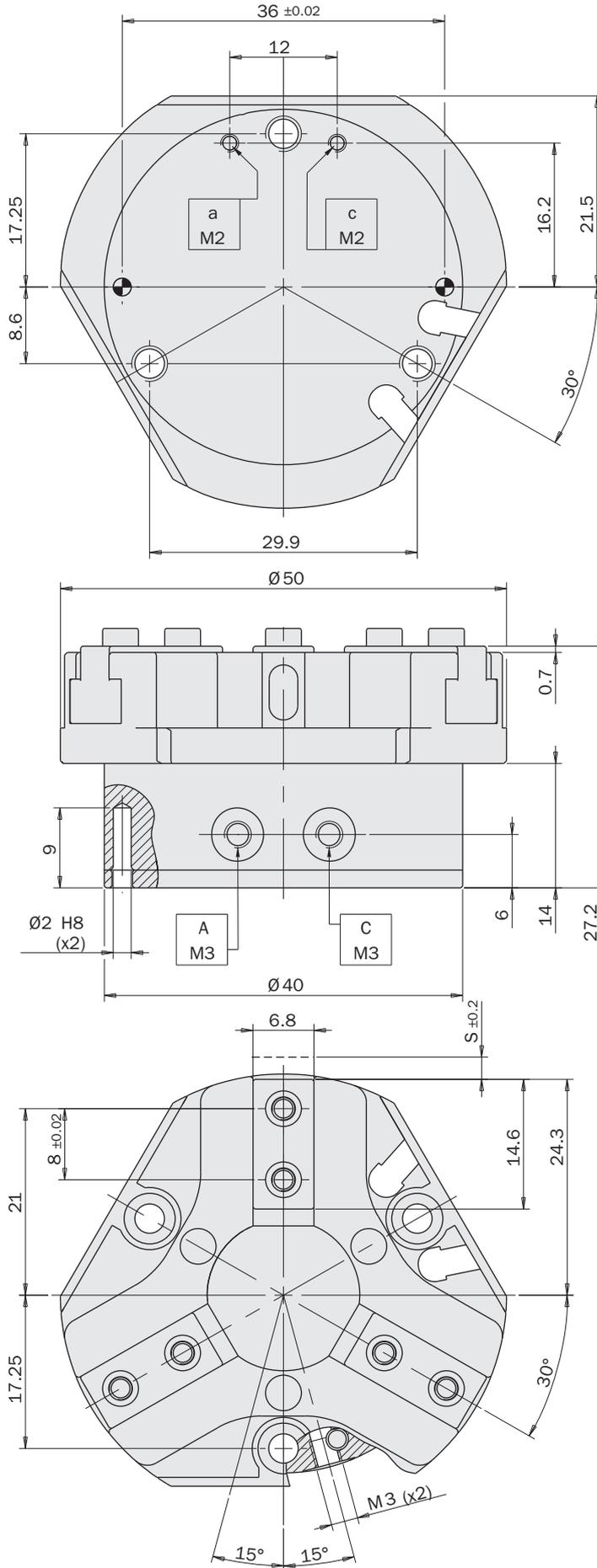
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



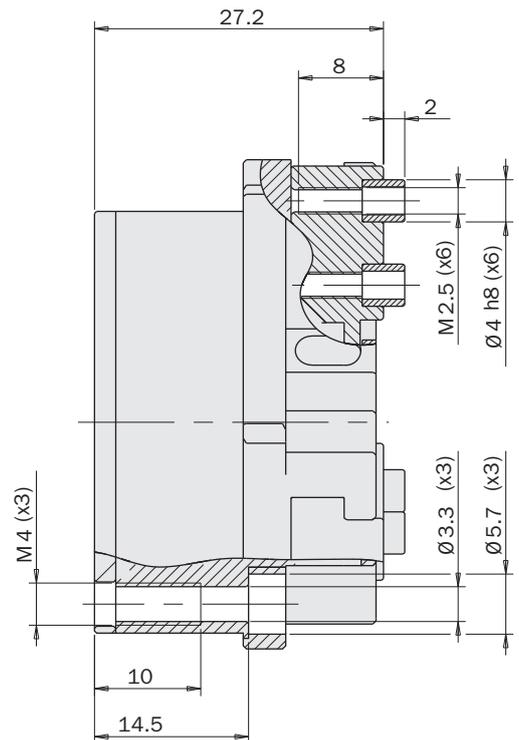
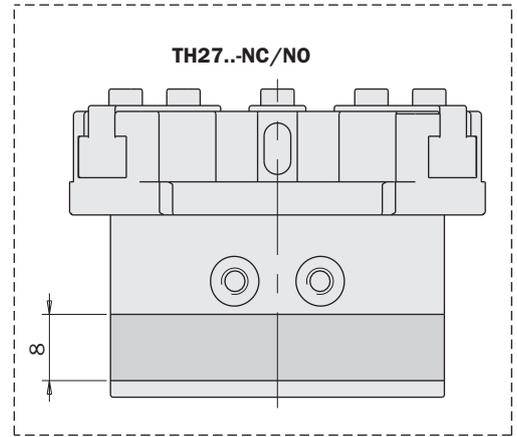
**La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.**

**The force shown in these graphs refers to one jaw. The total force is triple.**

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



	TH2725	TH2725-NC	TH2725-NO
S	3x2.5mm	3x2.5mm	3x2.5mm



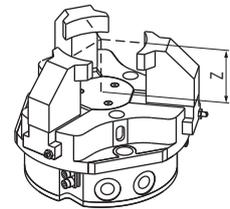
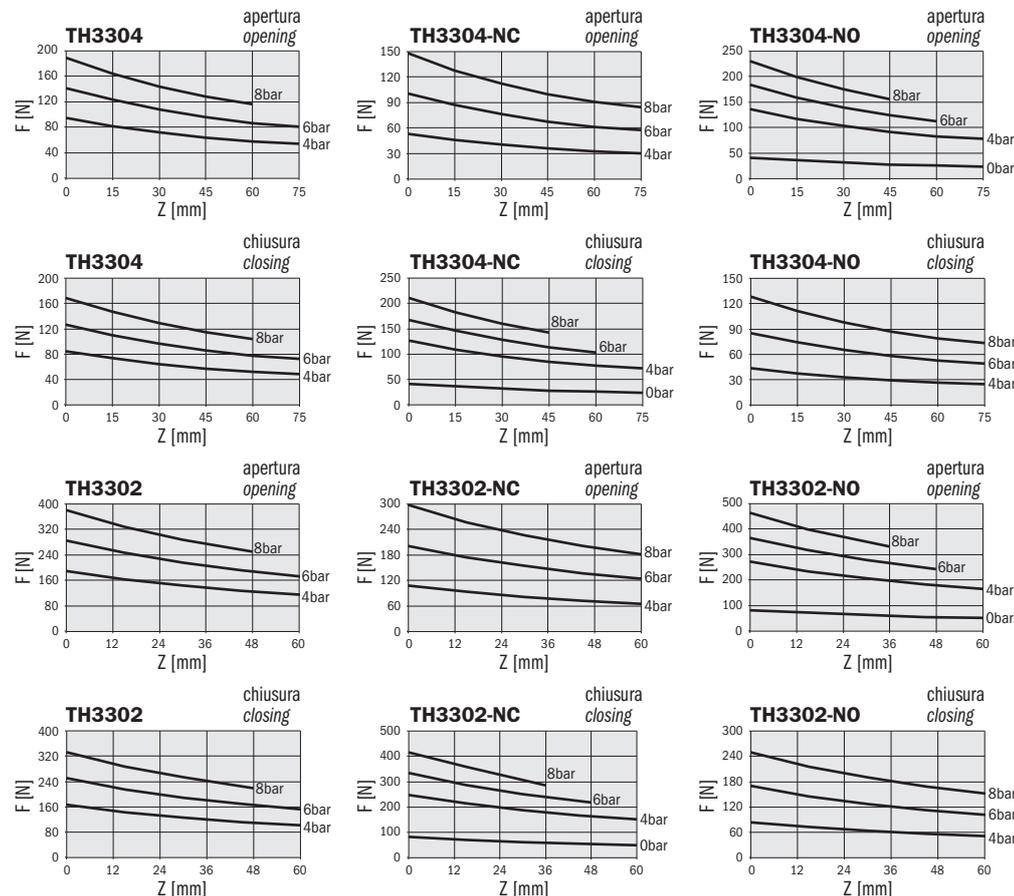
	TH3304	TH3304-NC	TH3304-NO	TH3302	TH3302-NC	TH3302-NO
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 100°C.					
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force on each jaw at 6 bar	142N	97 ÷ 106N	179 ÷ 188N	285N	192 ÷ 210N	358 ÷ 375N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	426N	291 ÷ 318N	537 ÷ 564N	855N	576 ÷ 630N	1074 ÷ 1125N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force on each jaw at 6 bar	127N	164 ÷ 172N	81 ÷ 90N	250N	326 ÷ 344N	161 ÷ 179N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	381N	492 ÷ 516N	243 ÷ 270N	750N	978 ÷ 1032N	483 ÷ 537N
Corsa Stroke (±0.2 mm)	3x4mm	3x4mm	3x4mm	3x2mm	3x2mm	3x2mm
Frequenza max funzionamento Maximum working frequency	3Hz	3Hz	3Hz	3Hz	3Hz	3Hz
Consumo d'aria per ciclo Cycle air consumption	8cm <sup>3</sup>	13cm <sup>3</sup>	13cm <sup>3</sup>	8cm <sup>3</sup>	13cm <sup>3</sup>	13cm <sup>3</sup>
Tempo minimo di chiusura / apertura Closing / opening minimum time	0.02s / 0.02s	0.02s / 0.02s	0.02s / 0.02s	0.02s / 0.02s	0.02s / 0.02s	0.02s / 0.02s
Ripetibilità Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Peso Weight	237g	293g	285g	240g	296g	288g

**Forza di serraggio**

I grafici mostrano la forza (F) per griffa espressa dalla pinza in funzione della pressione e del braccio di leva Z.

**Gripping force**

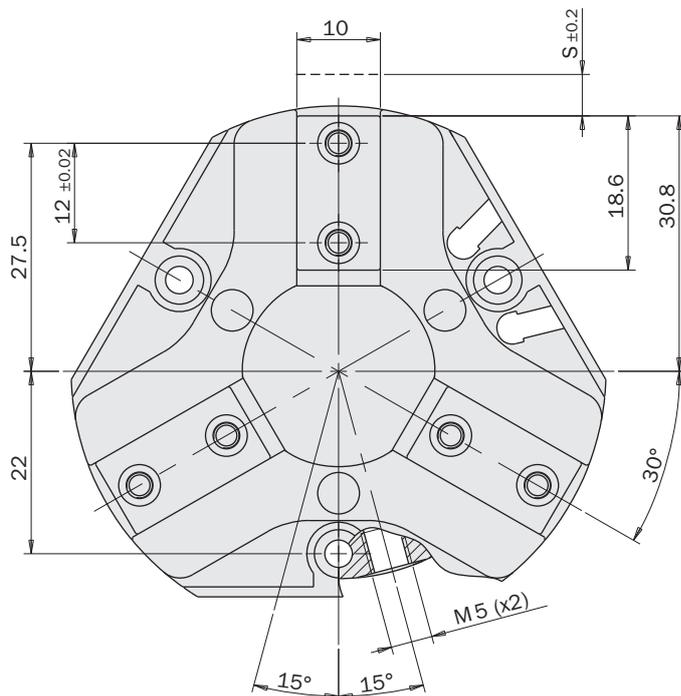
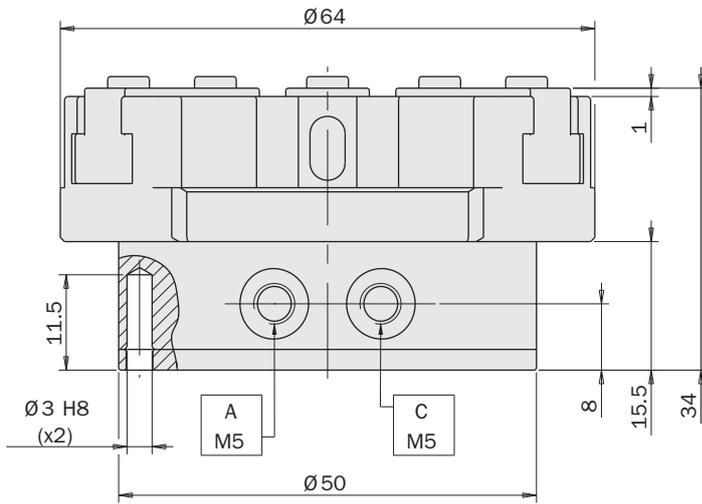
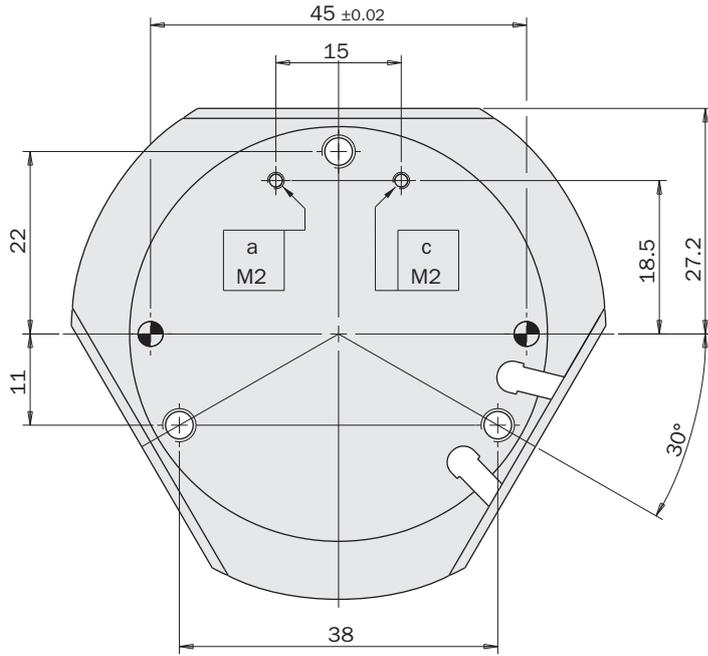
The graphs show the gripping force (F) on each jaw, as a function of the operating pressure and the gripping tool length Z.



**La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.**

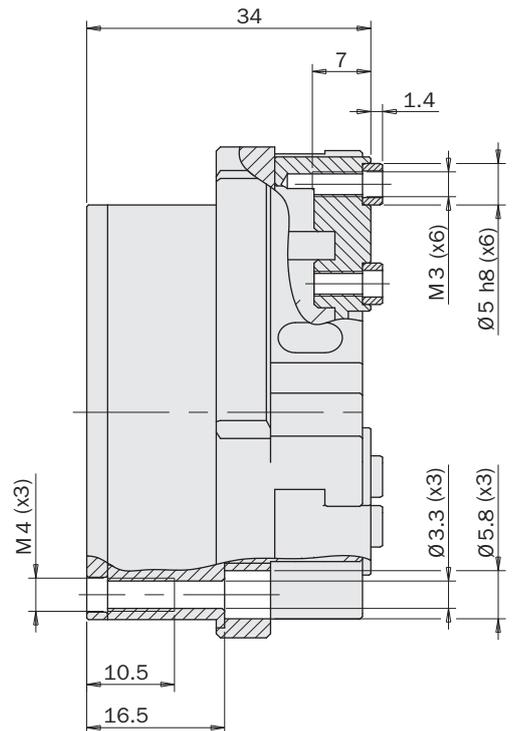
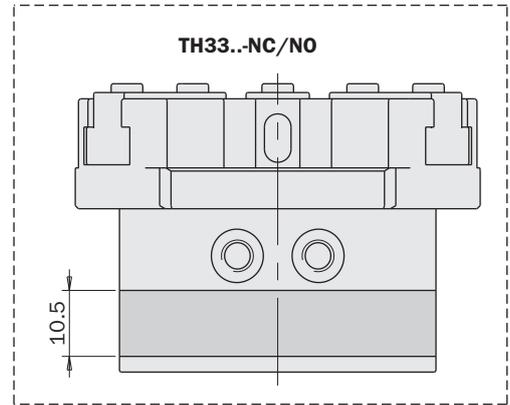
**The force shown in these graphs refers to one jaw. The total force is triple.**

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



	TH3304	TH3304-NC	TH3304-N0
S	3x4mm	3x4mm	3x4mm

	TH3302	TH3302-NC	TH3302-N0
S	3x2mm	3x2mm	3x2mm



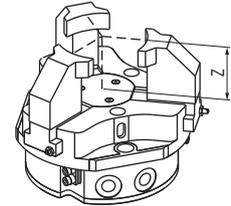
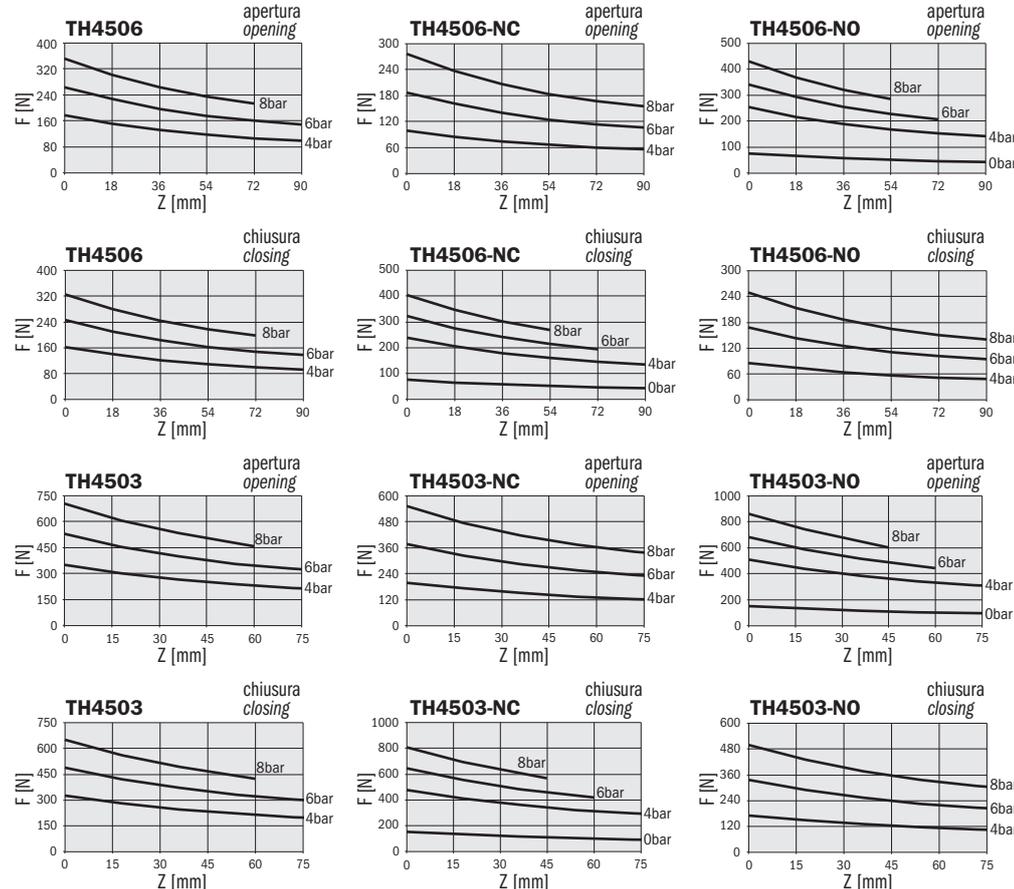
	TH4506	TH4506-NC	TH4506-NO	TH4503	TH4503-NC	TH4503-NO
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 100°C.					
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force on each jaw at 6 bar	265N	173 ÷ 202N	328 ÷ 356N	530N	346 ÷ 403N	653 ÷ 710N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	795N	519 ÷ 606N	984 ÷ 1068N	1590N	1038 ÷ 1209N	1959 ÷ 2130N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force on each jaw at 6 bar	245N	309 ÷ 337N	155 ÷ 184N	490N	615 ÷ 673N	308 ÷ 366N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	735N	927 ÷ 1011N	465 ÷ 552N	1470N	1845 ÷ 2019N	924 ÷ 1098N
Corsa Stroke (±0.2 mm)	3x6mm	3x6mm	3x6mm	3x3mm	3x3mm	3x3mm
Frequenza max funzionamento Maximum working frequency	2Hz	2Hz	2Hz	2Hz	2Hz	2Hz
Consumo d'aria per ciclo Cycle air consumption	22cm <sup>3</sup>	37cm <sup>3</sup>	37cm <sup>3</sup>	22cm <sup>3</sup>	37cm <sup>3</sup>	37cm <sup>3</sup>
Tempo minimo di chiusura / apertura Closing / opening minimum time	0.05s / 0.05s	0.05s / 0.07s	0.07s / 0.05s	0.05s / 0.05s	0.05s / 0.07s	0.07s / 0.05s
Ripetibilità Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Peso Weight	430g	540g	530g	440g	550g	530g

**Forza di serraggio**

I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione e del braccio di leva Z.

**Gripping force**

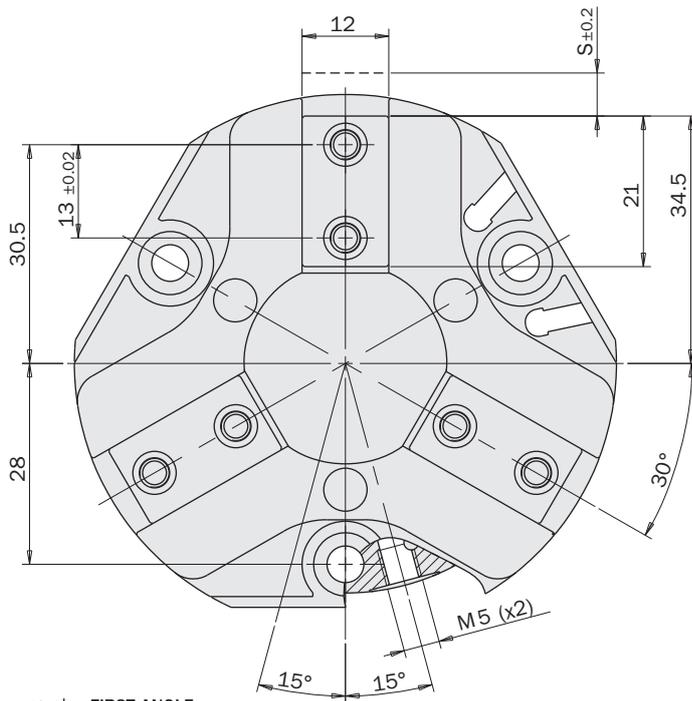
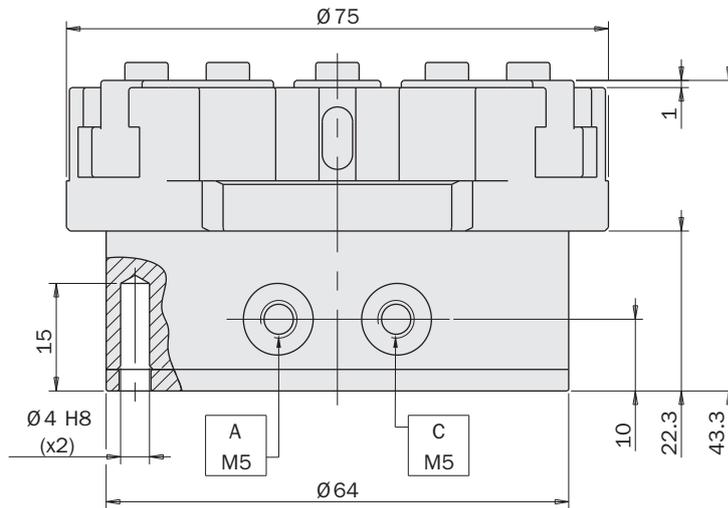
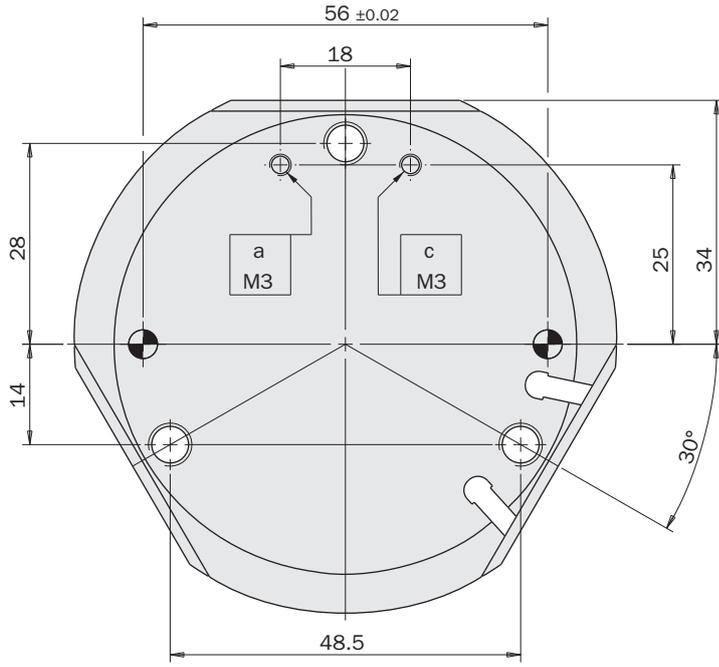
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



**La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.**

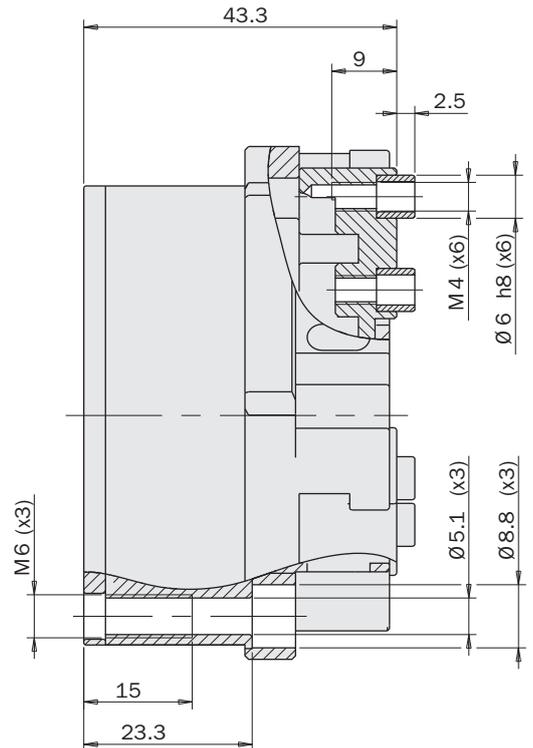
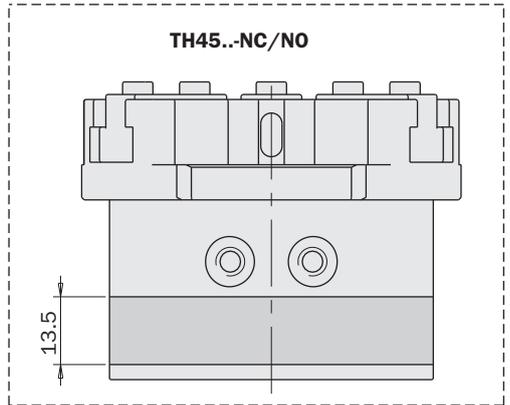
**The force shown in these graphs refers to one jaw. The total force is triple.**

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



	TH4506	TH4506-NC	TH4506-NO
S	3x6mm	3x6mm	3x6mm

	TH4503	TH4503-NC	TH4503-NO
S	3x3mm	3x3mm	3x3mm



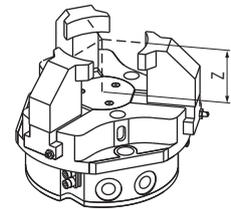
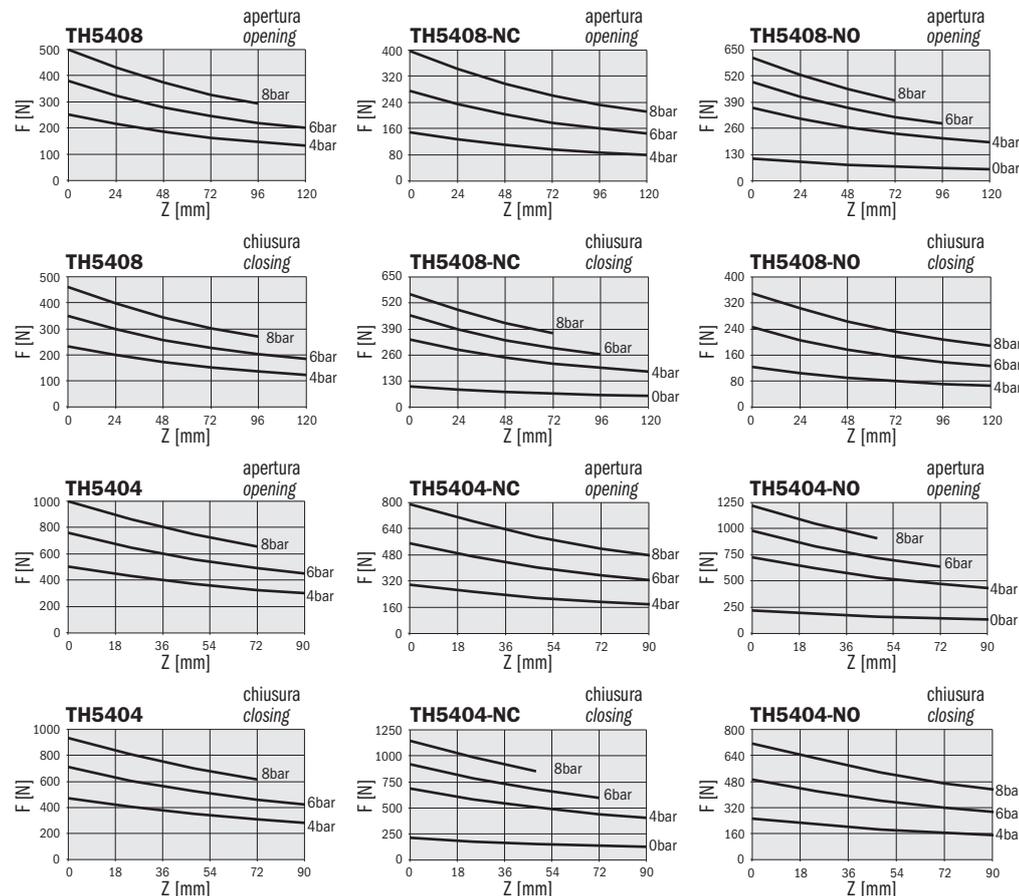
	TH5408	TH5408-NC	TH5408-NO	TH5404	TH5404-NC	TH5404-NO
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 100°C.					
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force on each jaw at 6 bar	380N	252 ÷ 299N	466 ÷ 514N	760N	504 ÷ 597N	931 ÷ 1029N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	1140N	756 ÷ 897N	1398 ÷ 1542N	2280N	1512 ÷ 1791N	2793 ÷ 3087N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force on each jaw at 6 bar	350N	436 ÷ 483N	220 ÷ 269N	710N	872 ÷ 966N	441 ÷ 538N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	1050N	1308 ÷ 1449N	660 ÷ 807N	2130N	2616 ÷ 2898N	1323 ÷ 1614N
Corsa Stroke (±0.2 mm)	3x8mm	3x8mm	3x8mm	3x4mm	3x4mm	3x4mm
Frequenza max funzionamento Maximum working frequency	2Hz	2Hz	2Hz	2Hz	2Hz	2Hz
Consumo d'aria per ciclo Cycle air consumption	42cm <sup>3</sup>	67cm <sup>3</sup>	67cm <sup>3</sup>	42cm <sup>3</sup>	67cm <sup>3</sup>	67cm <sup>3</sup>
Tempo minimo di chiusura / apertura Closing / opening minimum time	0.05s / 0.05s	0.05s / 0.07s	0.07s / 0.05s	0.05s / 0.05s	0.05s / 0.07s	0.07s / 0.05s
Ripetibilità Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Peso Weight	760g	930g	920g	770g	940g	930g

### Forza di serraggio

I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione e del braccio di leva Z.

### Gripping force

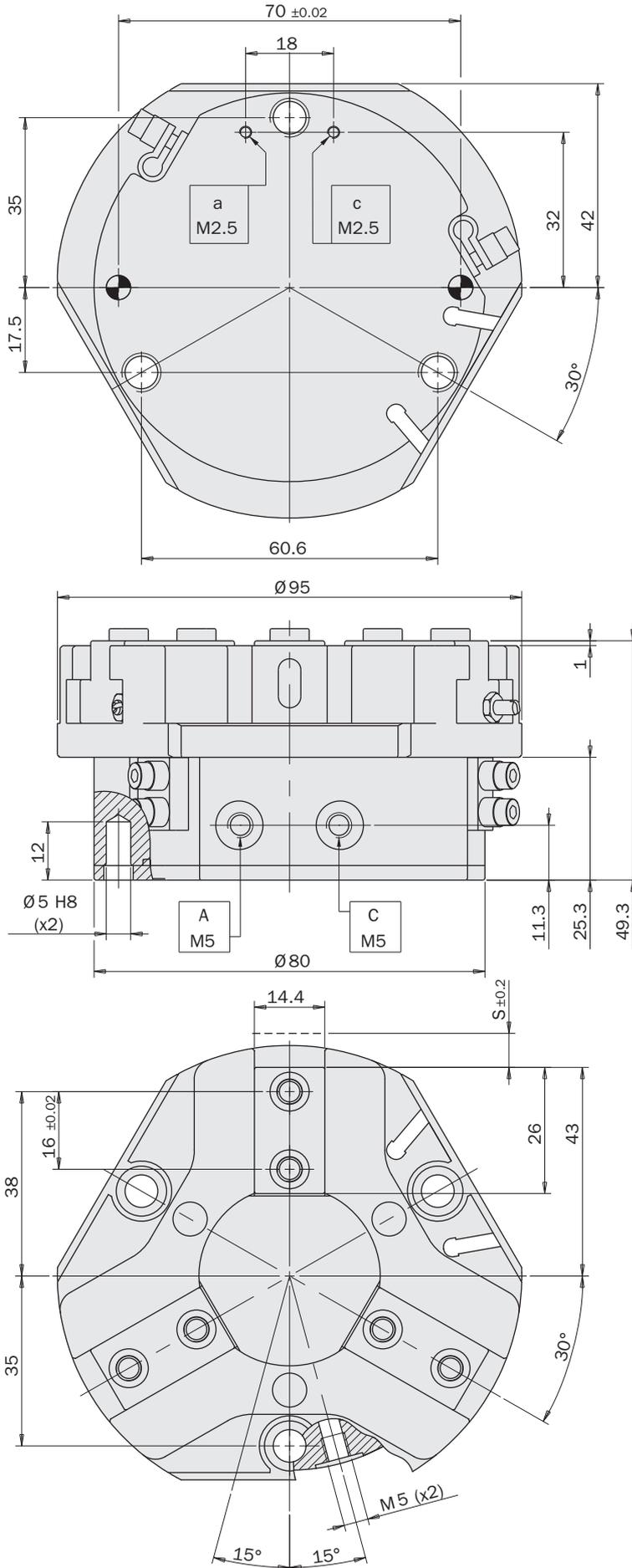
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



**La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.**

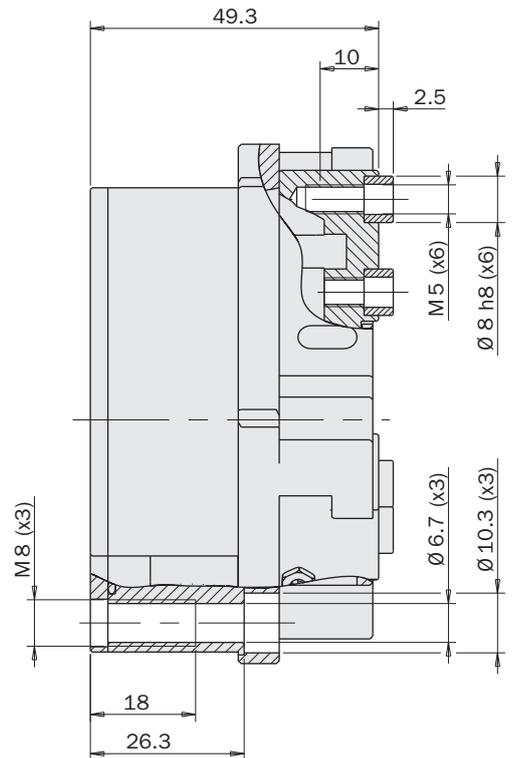
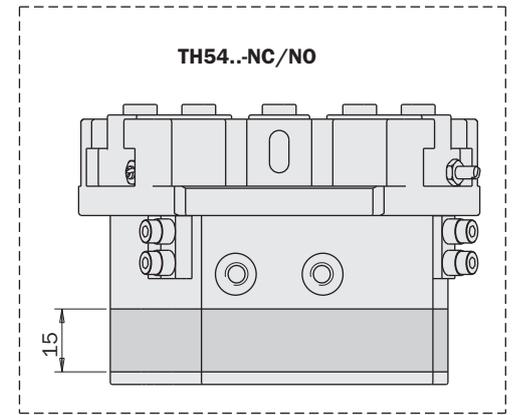
**The force shown in these graphs refers to one jaw. The total force is triple.**

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



	TH5408	TH5408-NC	TH5408-NO
S	3x8mm	3x8mm	3x8mm

	TH5404	TH5404-NC	TH5404-NO
S	3x4mm	3x4mm	3x4mm



FIRST ANGLE PROJECTION

01/2023

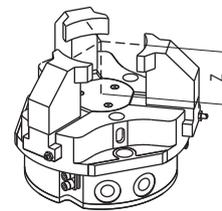
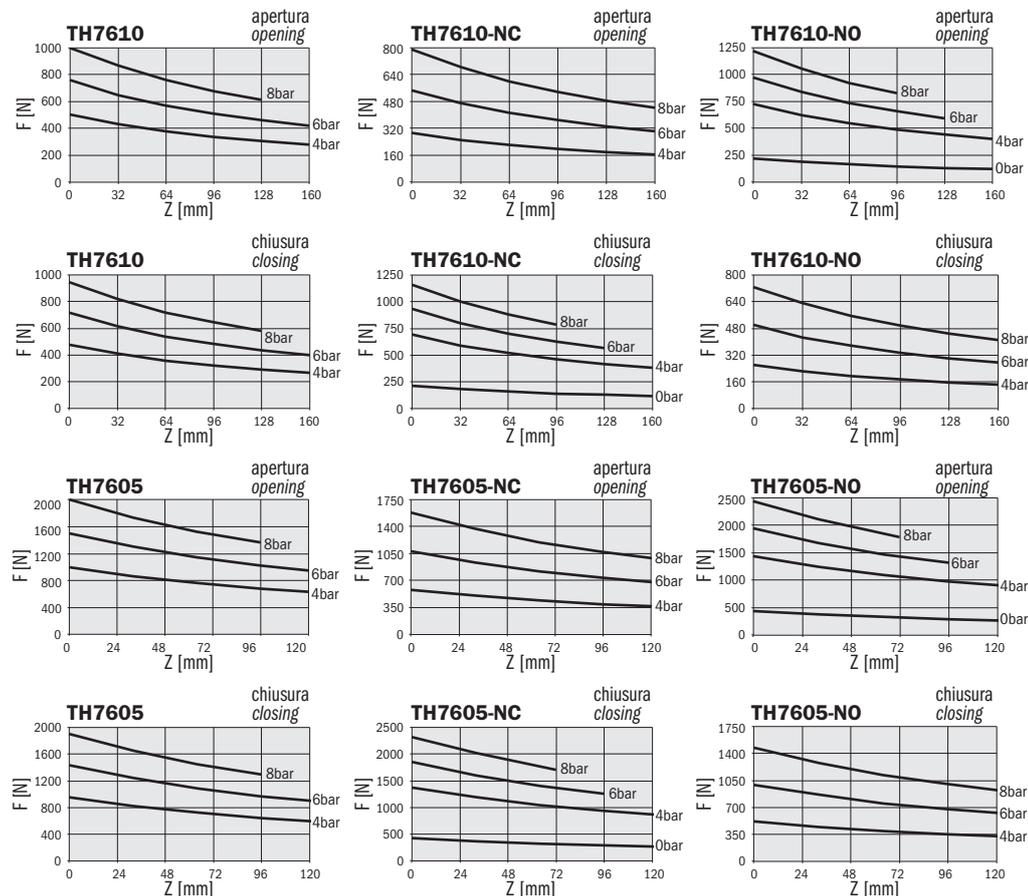
	TH7610	TH7610-NC	TH7610-NO	TH7605	TH7605-NC	TH7605-NO
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 100°C.					
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force on each jaw at 6 bar	760N	515 ÷ 577N	954 ÷ 1000N	1500N	1024 ÷ 1148N	1896 ÷ 1989N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	2280N	1545 ÷ 1731N	2862 ÷ 3000N	4500N	3072 ÷ 3444N	5688 ÷ 5967N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force on each jaw at 6 bar	720N	890 ÷ 962N	477 ÷ 524N	1430N	1789 ÷ 1913N	948 ÷ 1041N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	2160N	2670 ÷ 2886N	1431 ÷ 1572N	4290N	5367 ÷ 5739N	2844 ÷ 3123N
Corsa Stroke (±0.2 mm)	3x10mm	3x10mm	3x10mm	3x5mm	3x5mm	3x5mm
Frequenza max funzionamento Maximum working frequency	1Hz	1Hz	1Hz	1Hz	1Hz	1Hz
Consumo d'aria per ciclo Cycle air consumption	106cm <sup>3</sup>	174cm <sup>3</sup>	174cm <sup>3</sup>	106cm <sup>3</sup>	174cm <sup>3</sup>	174cm <sup>3</sup>
Tempo minimo di chiusura / apertura Closing / opening minimum time	0.2s / 0.2s	0.2s / 0.3s	0.3s / 0.2s	0.2s / 0.2s	0.2s / 0.3s	0.3s / 0.2s
Ripetibilità Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Peso Weight	1420g	1870g	1840g	1430g	1880g	1850g

### Forza di serraggio

I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione e del braccio di leva Z.

### Gripping force

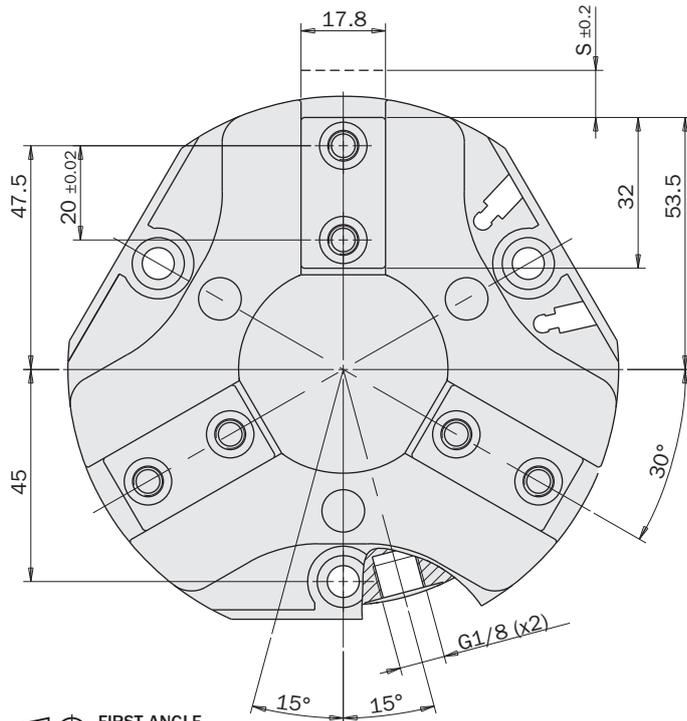
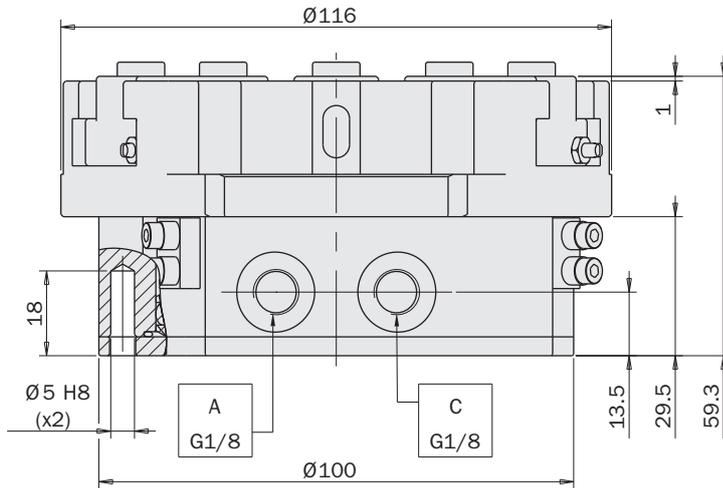
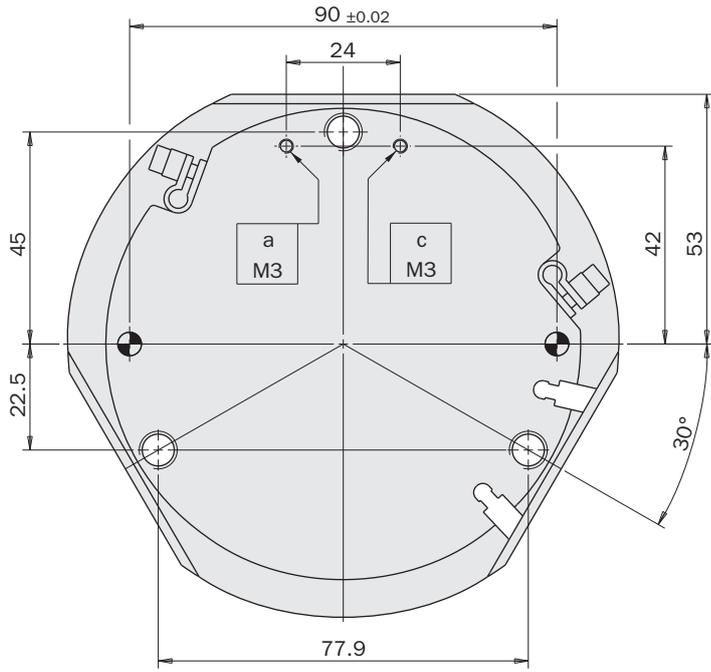
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



**La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.**

**The force shown in these graphs refers to one jaw. The total force is triple.**

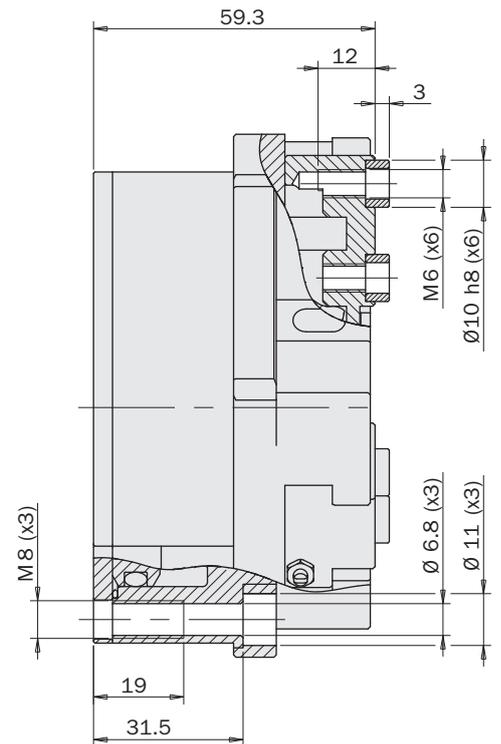
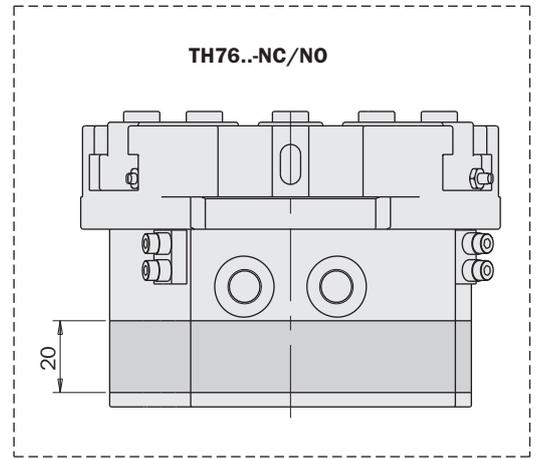
**Dimensioni (mm)**  
**Dimensions (mm)**



FIRST ANGLE PROJECTION

	TH7610	TH7610-NC	TH7610-NO
S	3x10mm	3x10mm	3x10mm

	TH7605	TH7605-NC	TH7605-NO
S	3x5mm	3x5mm	3x5mm



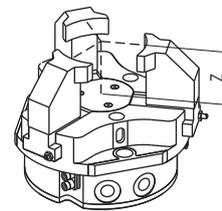
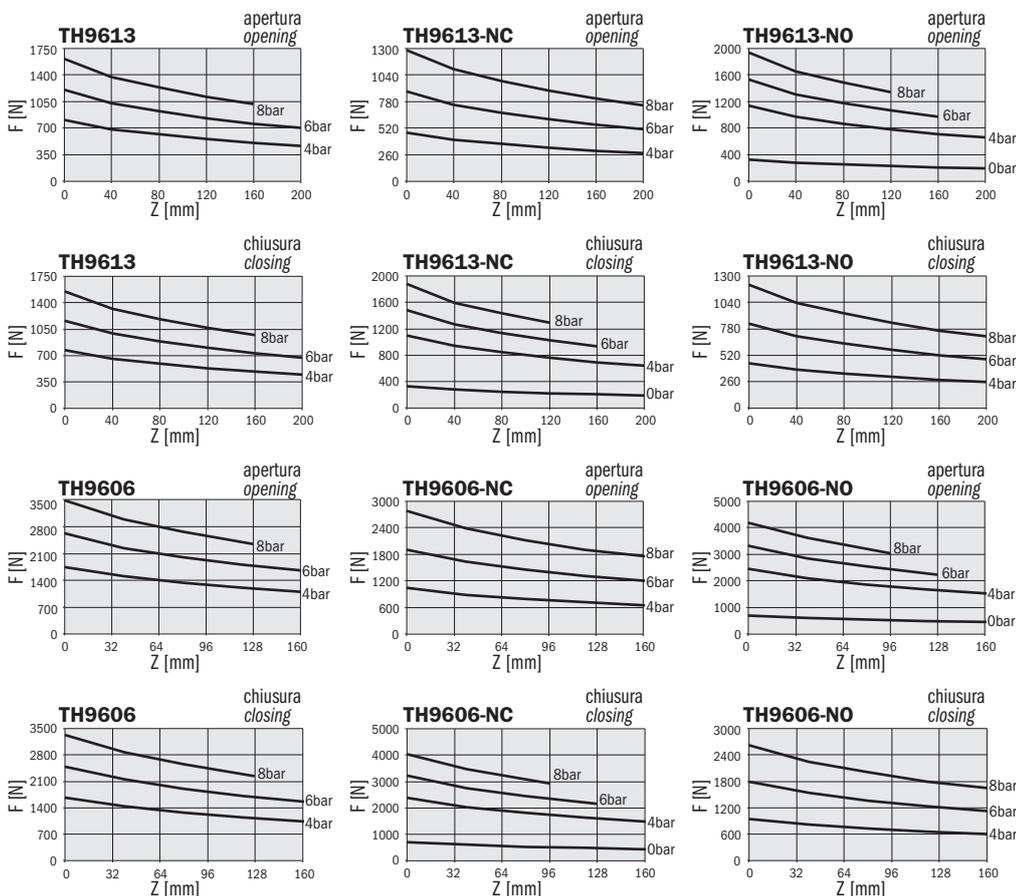
	TH9613	TH9613-NC	TH9613-NO	TH9606	TH9606-NC	TH9606-NO
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 100°C.					
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force on each jaw at 6 bar	1210N	821 ÷ 946N	1485 ÷ 1594N	2620N	1779 ÷ 2048N	3216 ÷ 3451N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	3630N	2463 ÷ 2838N	4455 ÷ 4782N	7860N	5337 ÷ 6144N	9648 ÷ 10353N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force on each jaw at 6 bar	1160N	1422 ÷ 1564N	774 ÷ 883N	2500N	3079 ÷ 3348N	1675 ÷ 1911N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	3480N	4266 ÷ 4638N	2322 ÷ 2649N	7500N	9327 ÷ 10044N	5025 ÷ 5733N
Corsa Stroke (±0.2 mm)	3x13mm	3x13mm	3x13mm	3x6mm	3x6mm	3x6mm
Frequenza max funzionamento Maximum working frequency	1Hz	1Hz	1Hz	1Hz	1Hz	1Hz
Consumo d'aria per ciclo Cycle air consumption	221cm <sup>3</sup>	335cm <sup>3</sup>	335cm <sup>3</sup>	221cm <sup>3</sup>	335cm <sup>3</sup>	335cm <sup>3</sup>
Tempo minimo di chiusura / apertura Closing / opening minimum time	0.2s / 0.2s	0.2s / 0.3s	0.3s / 0.2s	0.2s / 0.2s	0.2s / 0.3s	0.3s / 0.2s
Ripetibilità Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Peso Weight	2450g	3230g	3140g	2490g	3270g	3180g

### Forza di serraggio

I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione e del braccio di leva Z.

### Gripping force

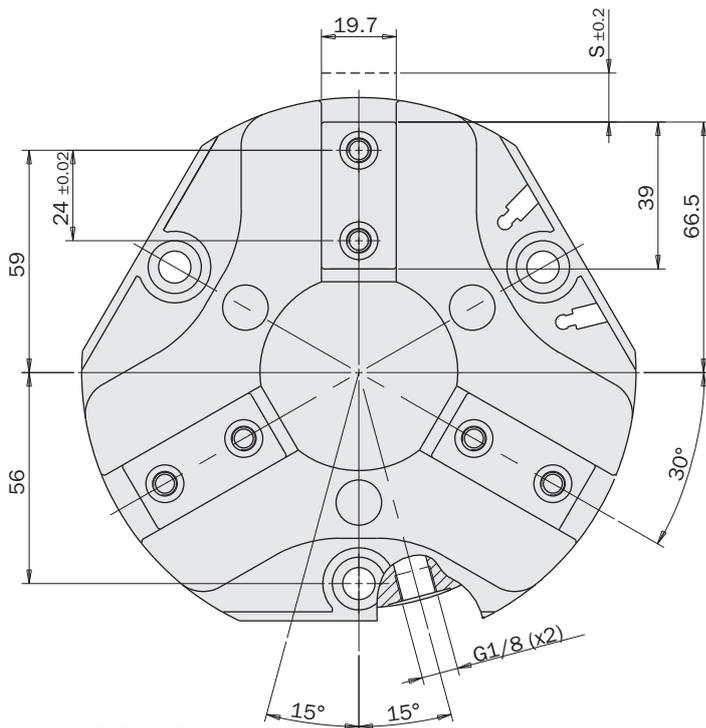
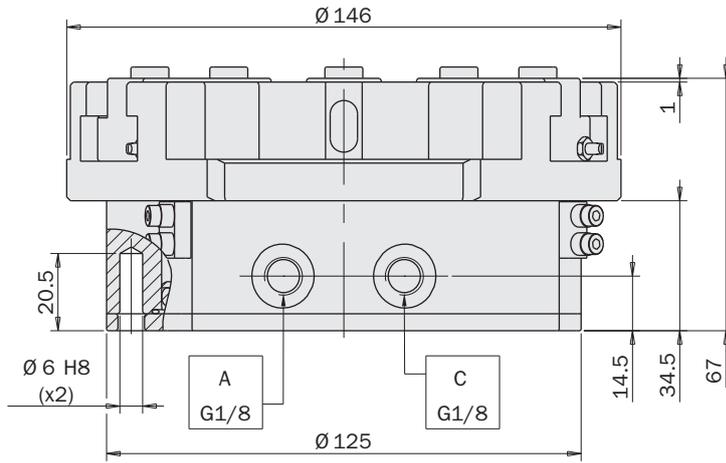
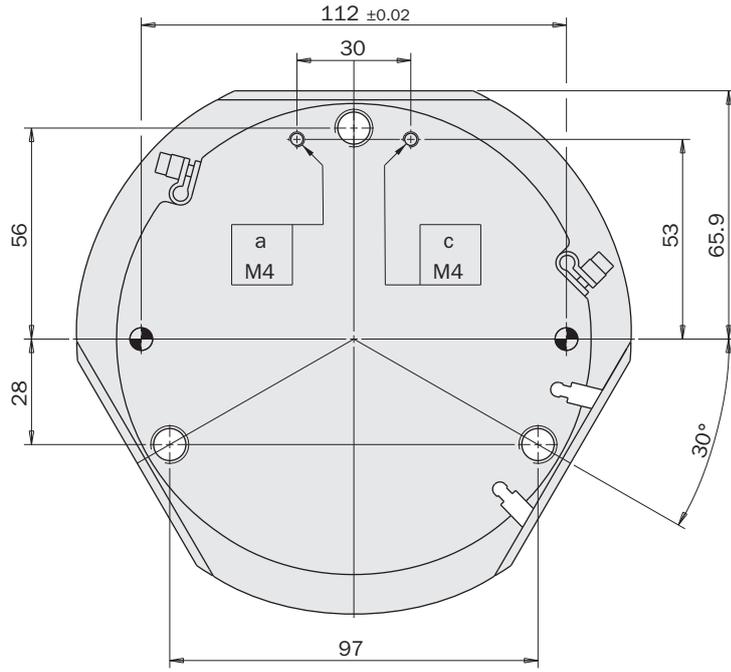
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.

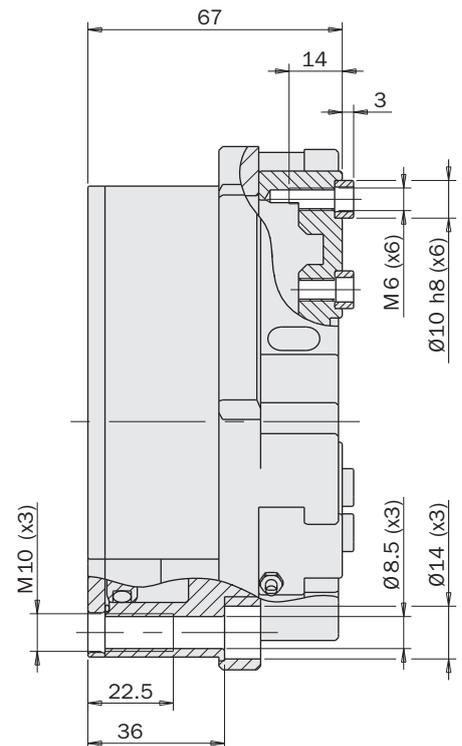
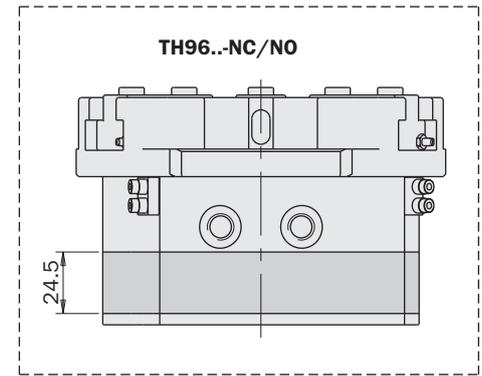
The force shown in these graphs refers to one jaw. The total force is triple.

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



	TH9613	TH9613-NC	TH9613-NO
S	3x13mm	3x13mm	3x13mm

	TH9606	TH9606-NC	TH9606-NO
S	3x6mm	3x6mm	3x6mm



01/2023



Unità Rotanti  
Rotary Units

Cambia Utensile  
Quick Changer

Profili e Staffe  
Profiles and Brackets

Pinze  
Grippers

Attuatori Lineari  
Linear Actuators

Sospensioni  
Suspensions

Taglierini  
Nippers

Kit-Robot  
Robot Kit

Accessori Opzionali  
Options

Sensori  
Sensors

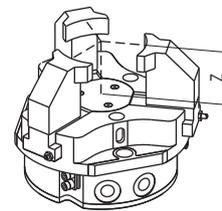
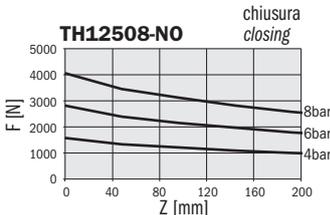
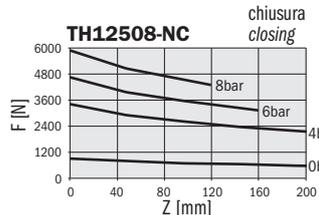
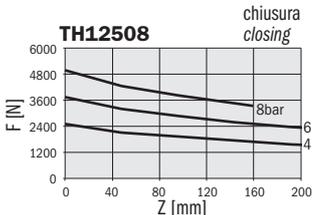
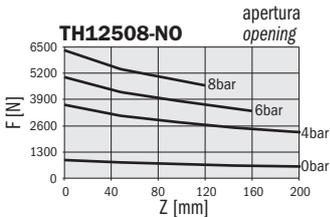
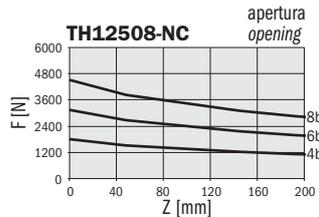
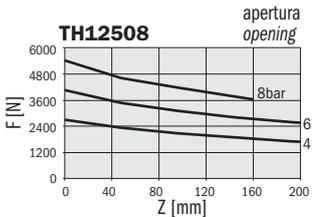
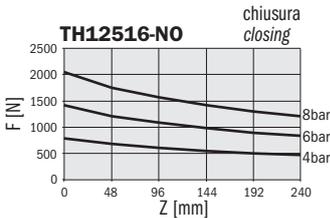
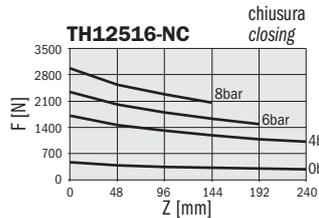
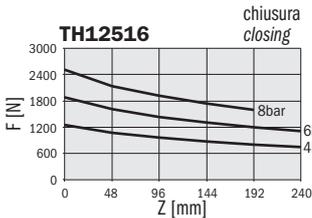
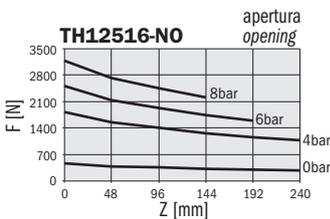
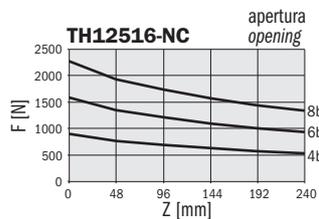
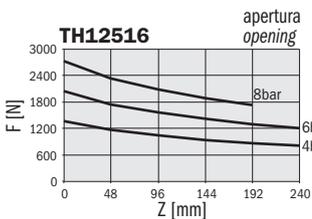
	TH12516	TH12516-NC	TH12516-NO	TH12508	TH12508-NC	TH12508-NO
Fluido Medium	Aria compressa a norma ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3 ÷ 8bar	3 ÷ 8bar	1.5 ÷ 8bar	3 ÷ 8bar	3z ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 100°C.					
Forza di serraggio per griffa in apertura a 6 bar Opening gripping force on each jaw at 6 bar	2050N	1538 ÷ 1644N	2465 ÷ 2571N	4070N	3050 ÷ 3260N	4888 ÷ 5099N
Forza di serraggio totale in apertura a 6 bar Opening total gripping force at 6 bar	6150N	4614 ÷ 4932N	7395 ÷ 7713N	12210N	9150 ÷ 9780N	14664 ÷ 15297N
Forza di serraggio per griffa in chiusura a 6 bar Closing gripping force on each jaw at 6 bar	1880N	2294 ÷ 2400N	1367 ÷ 1473N	3740N	4550 ÷ 4761N	2712 ÷ 2922N
Forza di serraggio totale in chiusura a 6 bar Closing total gripping force at 6 bar	5640N	6882 ÷7200N	4101 ÷ 4419N	11220N	13650 ÷ 14283N	8136 ÷ 8766N
Corsa Stroke (±0.2 mm)	3x16mm	3x16mm	3x16mm	3x8mm	3x8mm	3x8mm
Frequenza max funzionamento Maximum working frequency	1Hz	1Hz	1Hz	1Hz	1Hz	1Hz
Consumo d'aria per ciclo Cycle air consumption	452cm <sup>3</sup>	700cm <sup>3</sup>	700cm <sup>3</sup>	452cm <sup>3</sup>	700cm <sup>3</sup>	700cm <sup>3</sup>
Tempo minimo di chiusura / apertura Closing / opening minimum time	0.3s / 0.3s	0.3s / 0.4s	0.4s / 0.3s	0.3s / 0.3s	0.3s / 0.4s	0.4s / 0.3s
Ripetibilità Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Peso Weight	4920g	6640g	6460g	4990g	6710g	6530g

**Forza di serraggio**

I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione e del braccio di leva Z.

**Gripping force**

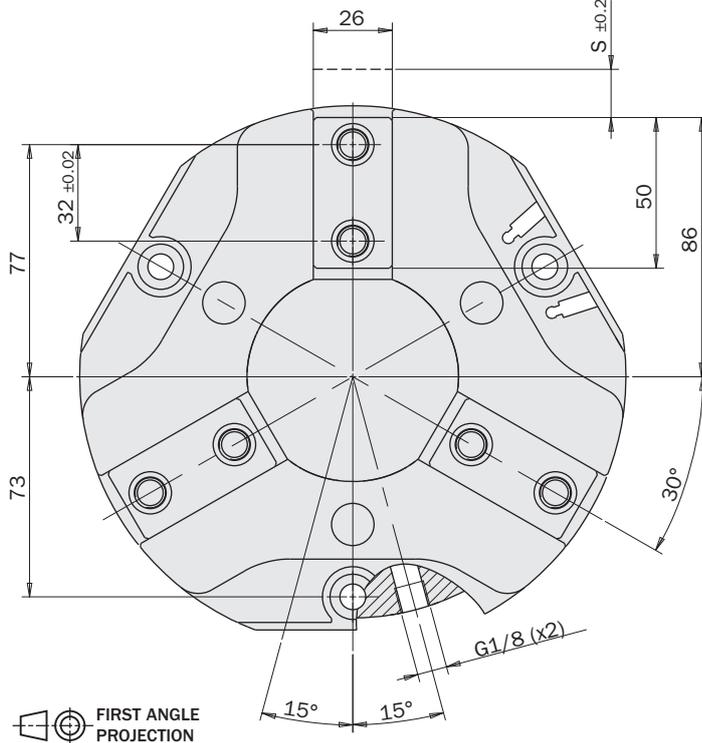
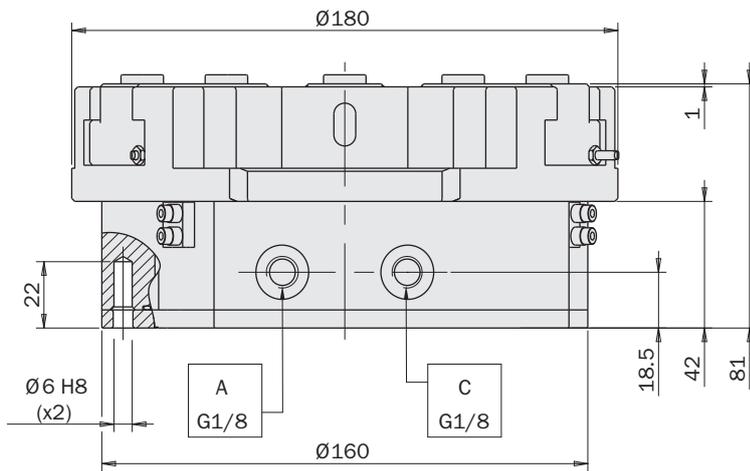
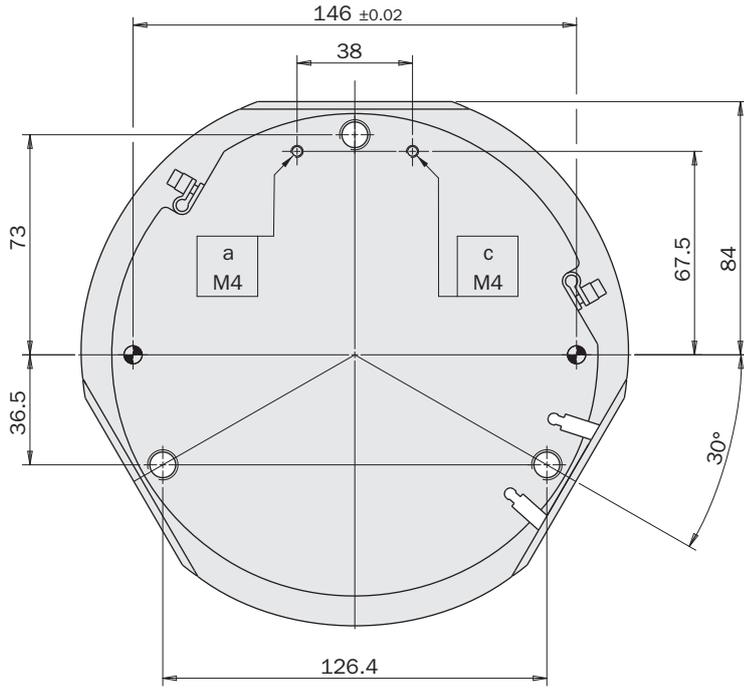
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.

The force shown in these graphs refers to one jaw. The total force is triple.

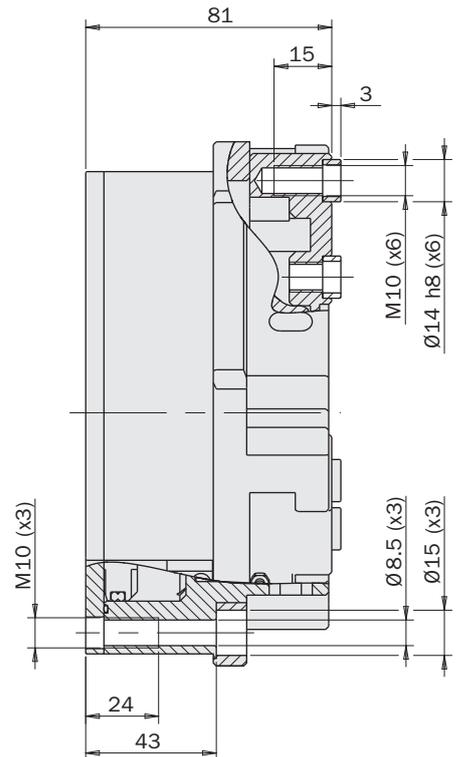
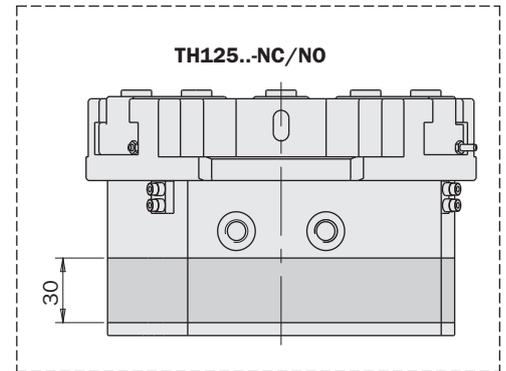
**Dimensioni (mm)**  
**Dimensions (mm)**



FIRST ANGLE PROJECTION

	TH12516	TH12516-NC	TH12516-NO
S	3x16mm	3x16mm	3x16mm

	TH12508	TH12508-NC	TH12508-NO
S	3x8mm	3x8mm	3x8mm



**Sensori magnetici (opzionali)**

Il rilevamento della posizione di lavoro è affidato a uno o due sensori magnetici di prossimità, 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.

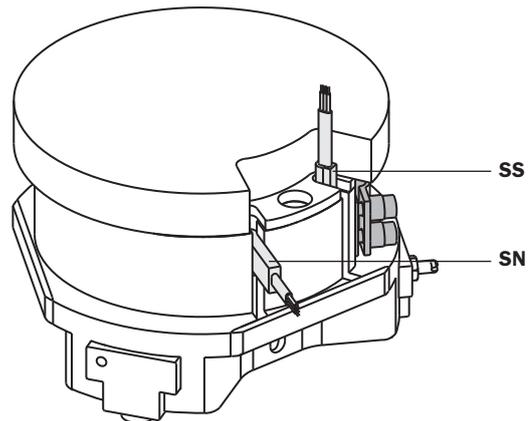
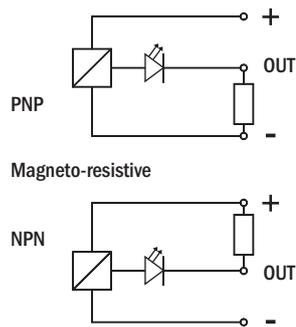
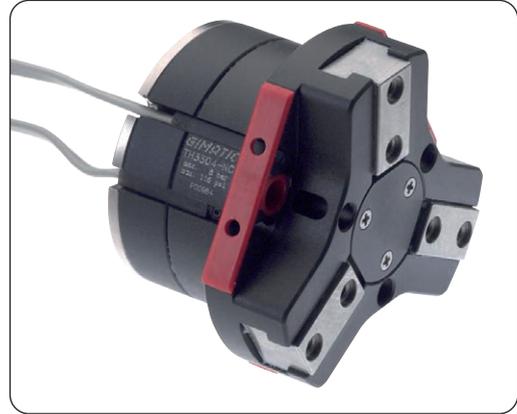
**Magnetic sensors (optional)**

The operating position can be checked by one or two magnetic sensors, that detect the magnet on the piston inside. Therefore a near big mass of ferromagnetic material or intense magnetic fields may cause sensing troubles.

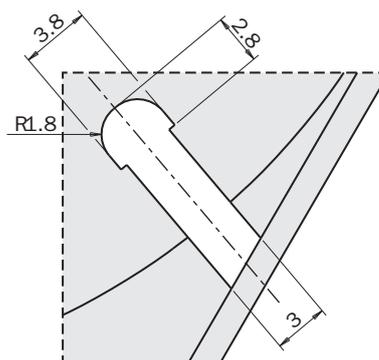
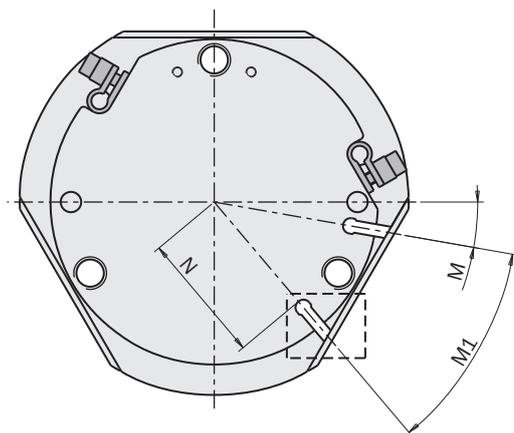
I sensori utilizzabili sono:

Use sensors:

SN4N225-G	PNP	Cavo 2.5m 2.5m cable
SN4M225-G	NPN	
SN3N203-G	PNP	Connettore M8 M8 snap plug connector
SN3M203-G	NPN	
SS4N225-G	PNP	Cavo 2.5m 2.5m cable
SS4M225-G	NPN	
SS3N203-G	PNP	Connettore M8 M8 snap plug connector
SS3M203-G	NPN	



	TH27...	TH33...	TH46...	TH54...	TH76...	TH96...	TH125...
N	15.4	19.6	25.5	32	41.2	53.5	67
M	11.5°	14°	12°	10°	13°	14°	18°
M1	37°	32°	36°	40°	34°	32°	24°



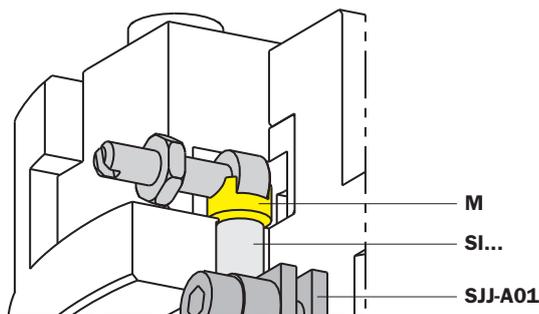
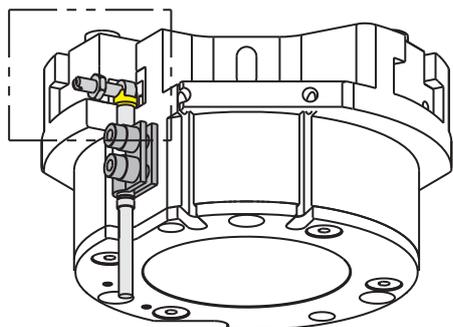
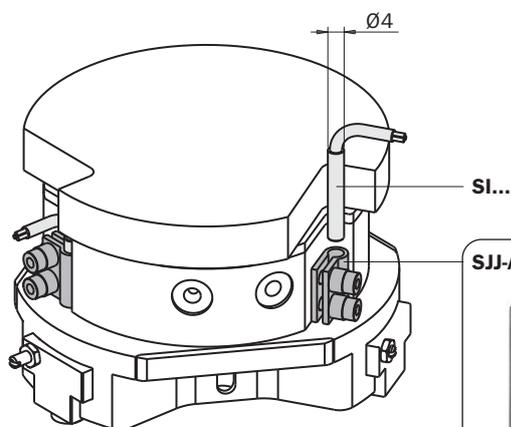
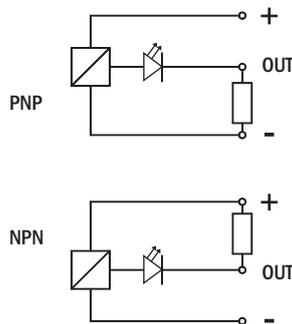
**Sensori induttivi (opzionali)**

Sulle taglie più grandi é anche possibile usare sensori induttivi di diametro 4mm, che si fissano con i supporti SJJ-A01 (forniti nella confezione).  
Dopo aver fissato il sensore va regolata la posizione della parte metallica (M) per stabilire il punto di accensione.

**Inductive sensors (optional)**

With the larger sizes it is also possible to use inductive sensors diameter 4mm, which can be fastened by the holders SJJ-A01 (supplied).  
After the sensor fastening, the position of the metal part (M) must be adjusted to select the on point.

			TH54... TH76... TH96... TH125...
SI4M225-G	NPN	Cavo 2.5m 2.5m cable	<input checked="" type="checkbox"/>
SI4N225-G	PNP		<input checked="" type="checkbox"/>



	TH54...	TH76...	TH96...	TH125...
P	28	34.8	45.6	56.8
P1	35.5	44.1	56.2	71.3
T	10.9	14.7	20.2	24.4
T1	24.9	30.8	38.6	49.6

