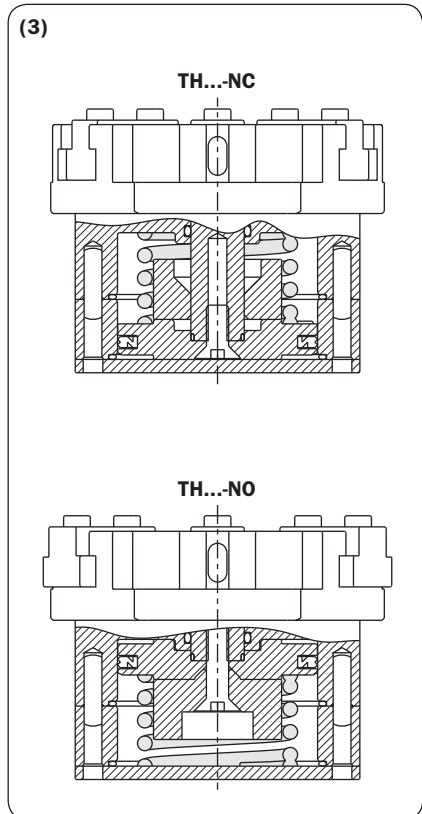
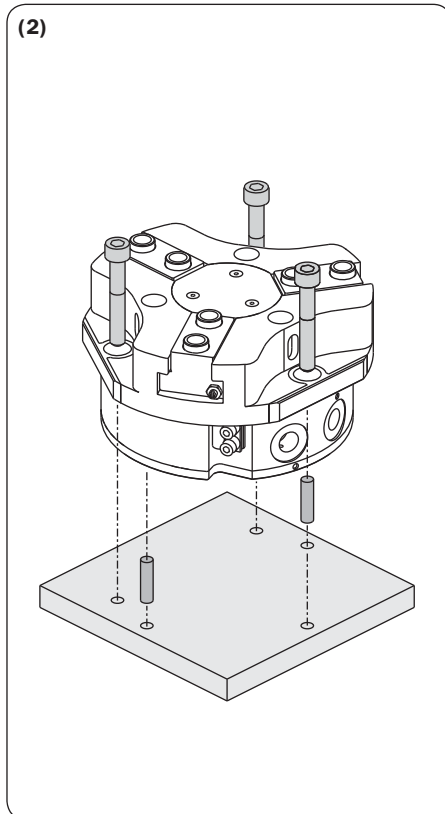
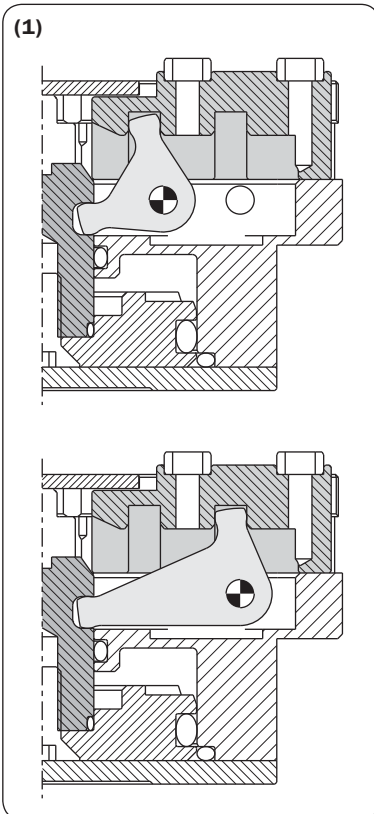


Pinza pneumatica a 3 griffe ad azione parallela autocentrante serie TH

- 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.

3-jaw parallel-acting self-centering 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.

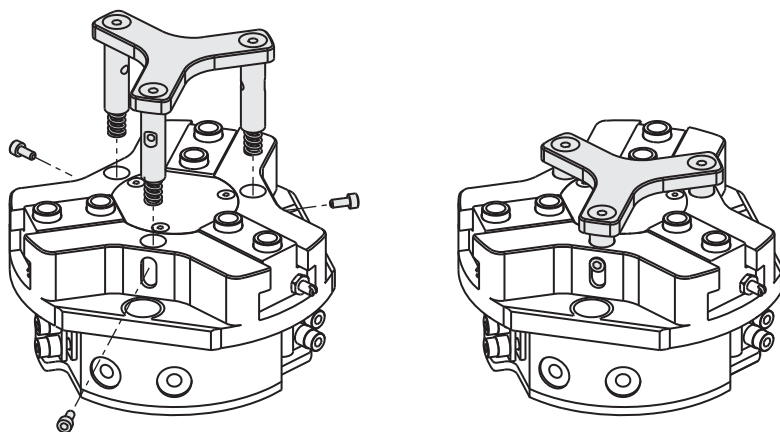


Spintore opzionale

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.

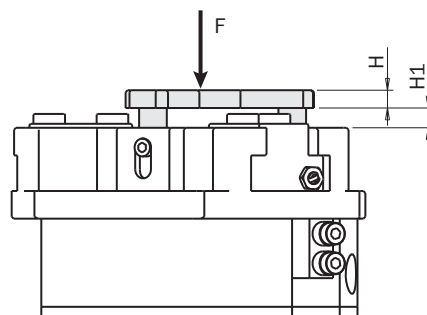
Optional pusher

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.



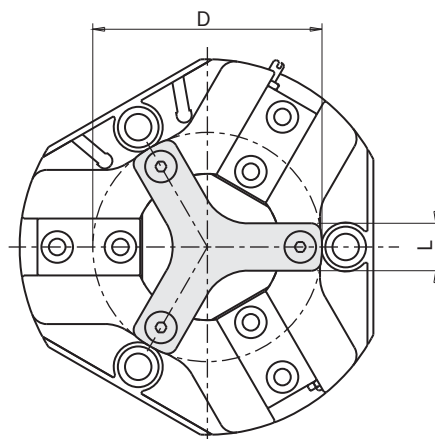
Forza / Force

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



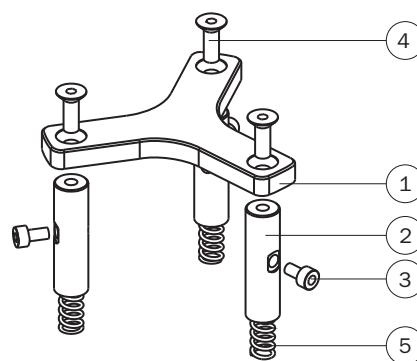
Dimensioni (mm) / Dimensions (mm)

	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



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	T5408-23	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	T3304-16	TH4506-11	TH5408-24	TH7610-12	TH9613-12	TH12516-19



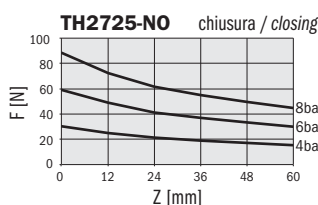
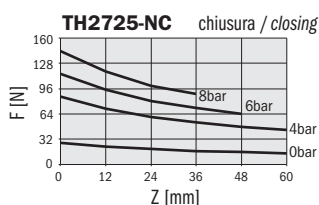
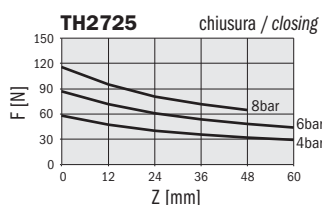
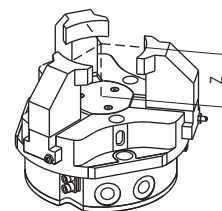
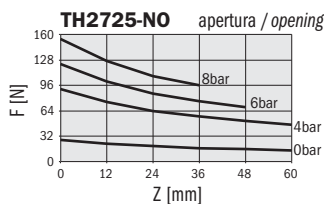
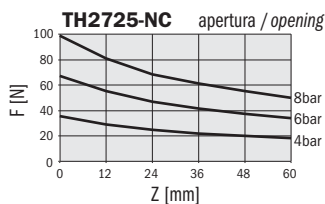
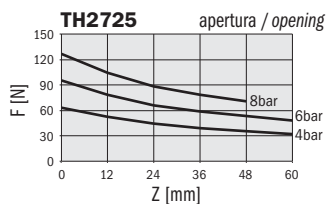
	TH2725	TH2725-NC	TH2725-NO
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air		
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 60°C.		
Forza 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 ³	6cm ³	6cm ³
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.

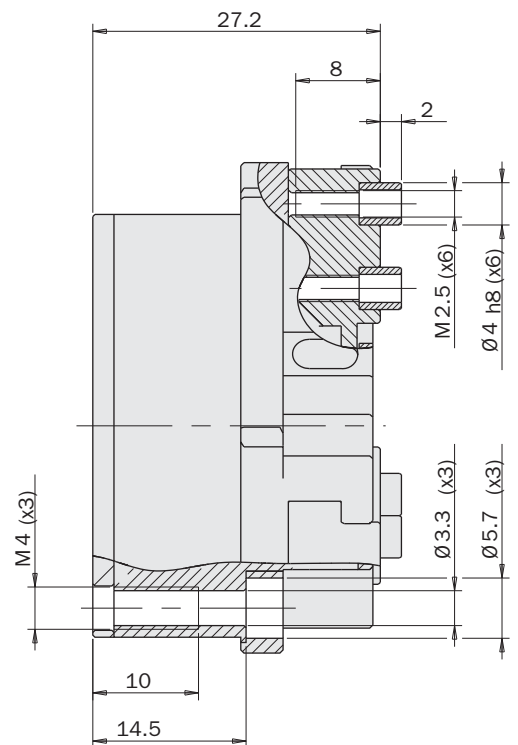
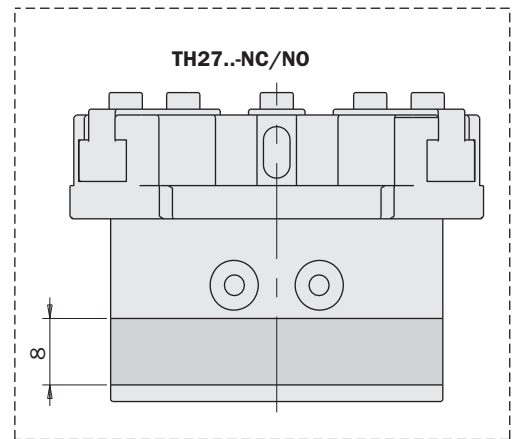
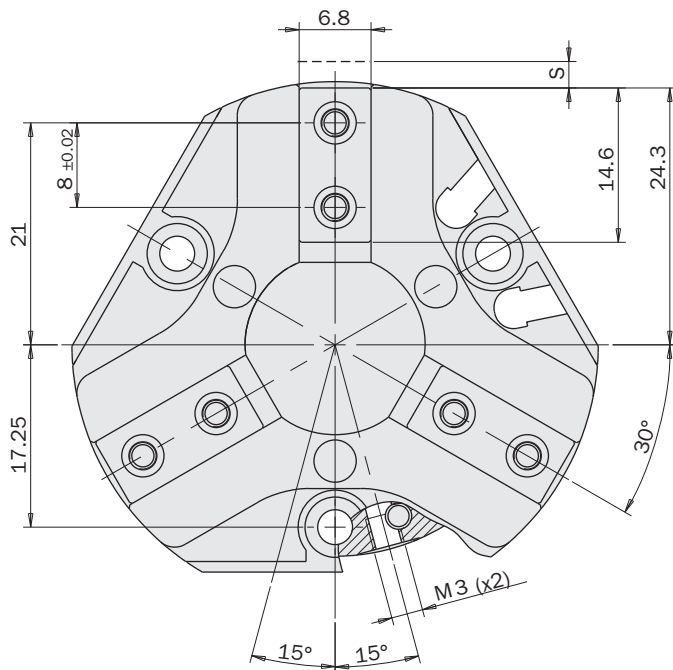
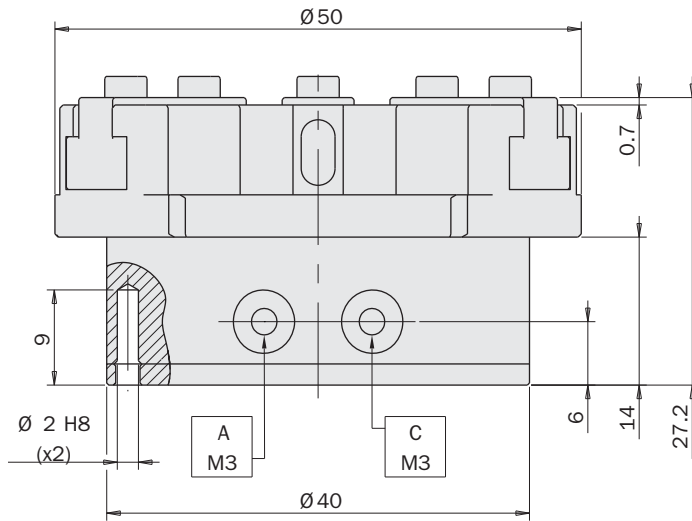
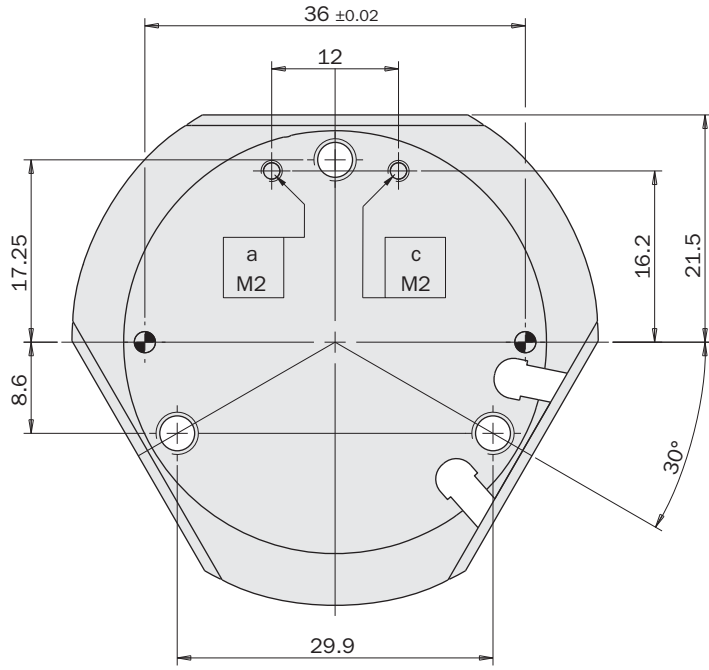
Gripping force

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.



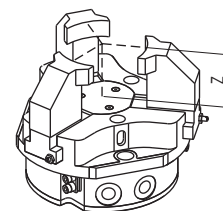
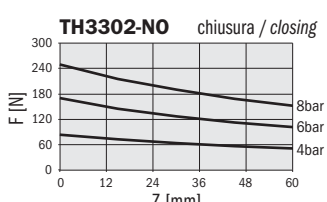
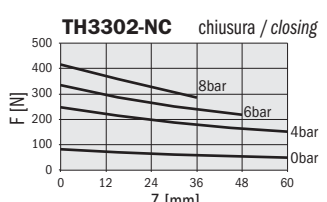
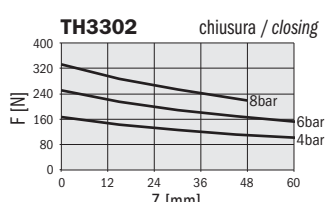
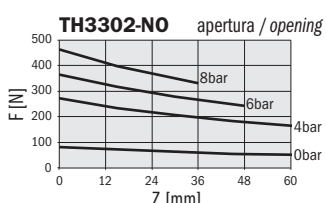
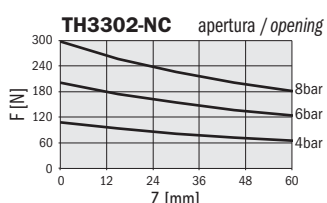
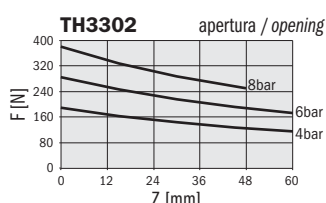
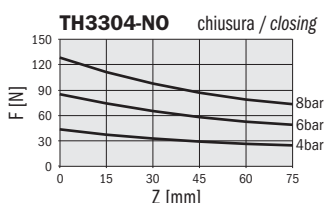
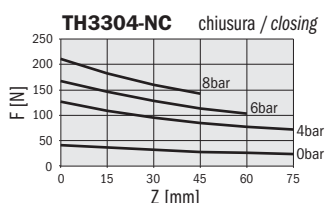
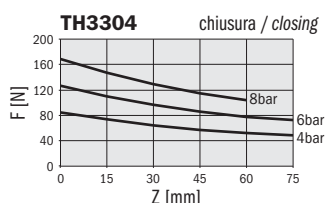
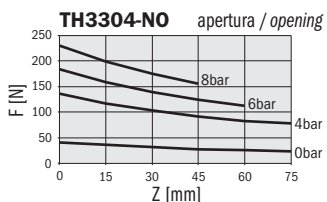
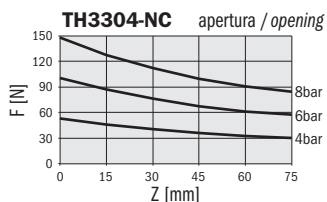
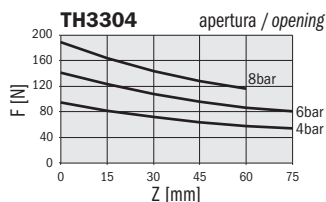
	TH3304	TH3304-NC	TH3304-NO	TH3302	TH3302-NC	TH3302-NO
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 60°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 ³	13cm ³	13cm ³	8cm ³	13cm ³	13cm ³
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.

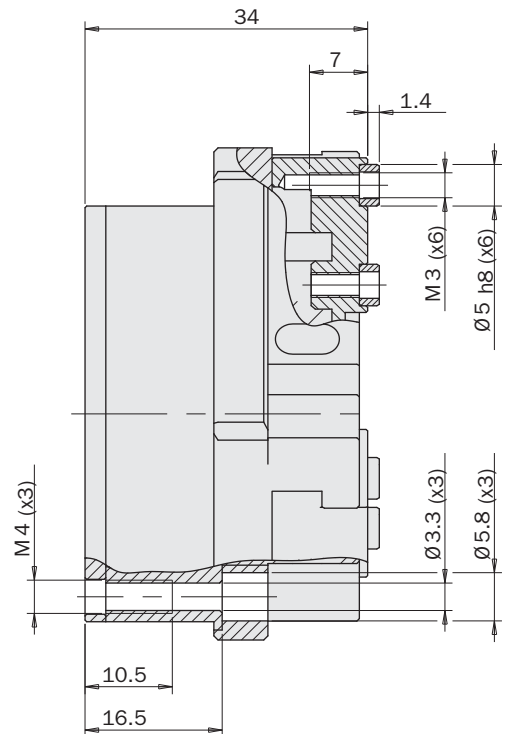
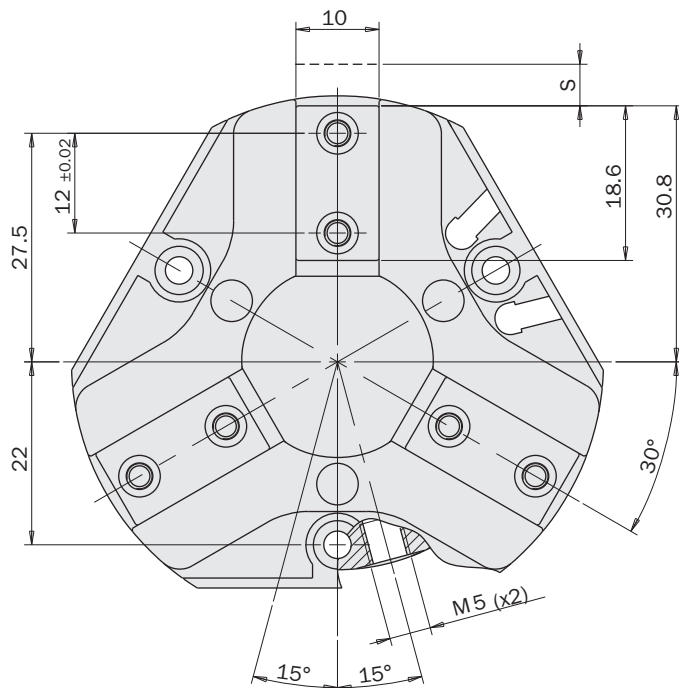
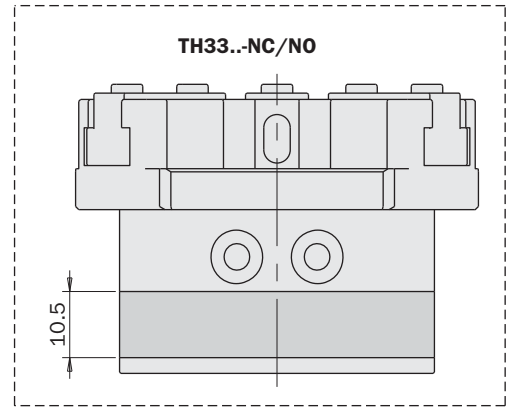
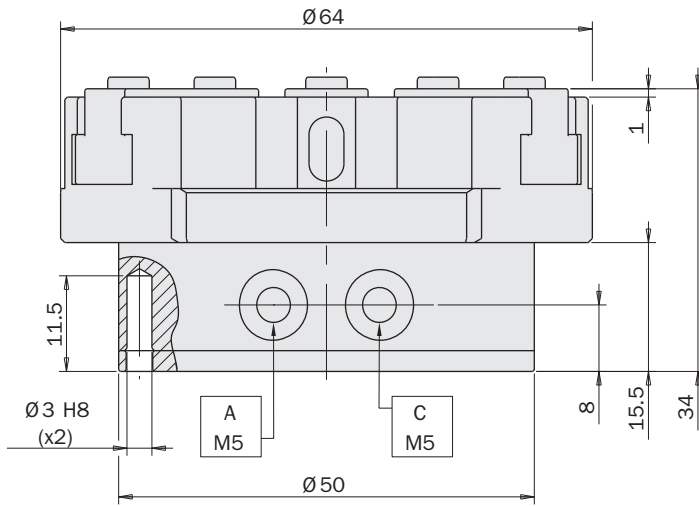
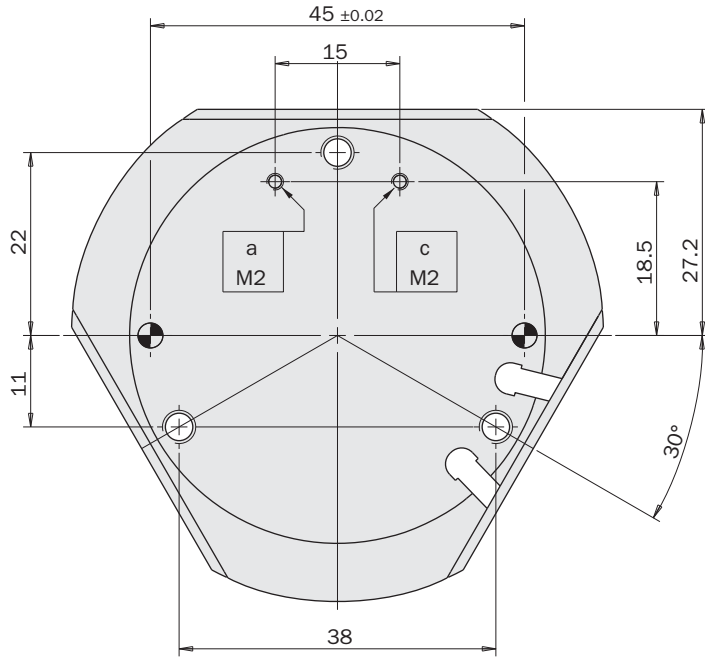
Gripping force

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.



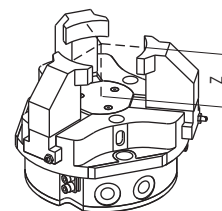
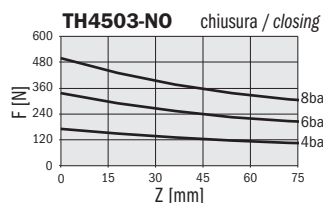
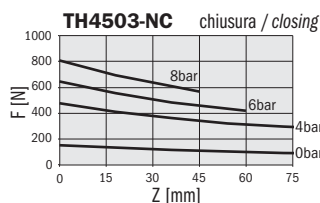
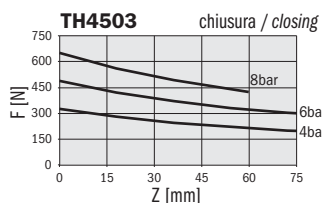
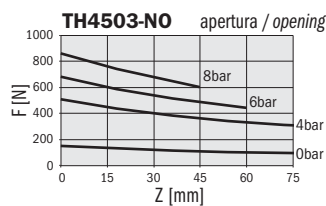
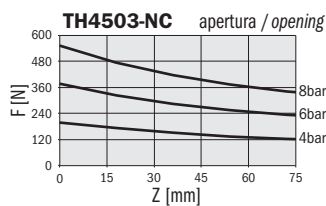
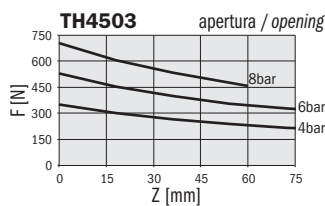
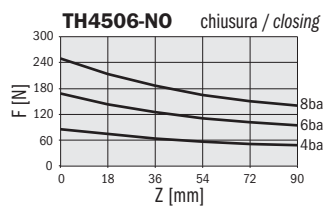
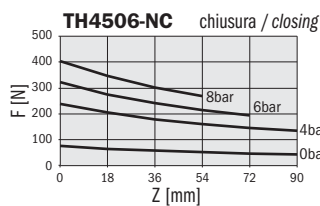
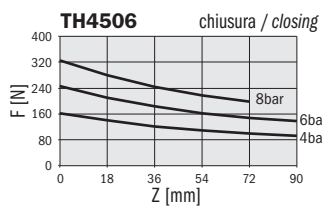
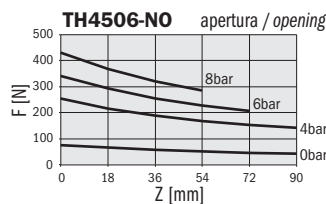
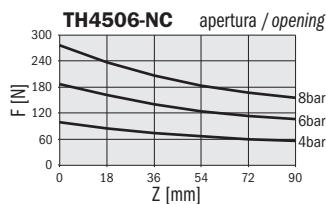
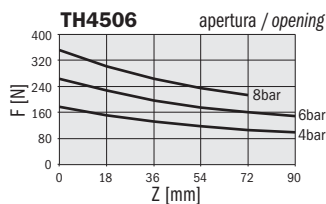
	TH4506	TH4506-NC	TH4506-NO	TH4503	TH4503-NC	TH4503-NO
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 60°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 ³	37cm ³	37cm ³	22cm ³	37cm ³	37cm ³
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.

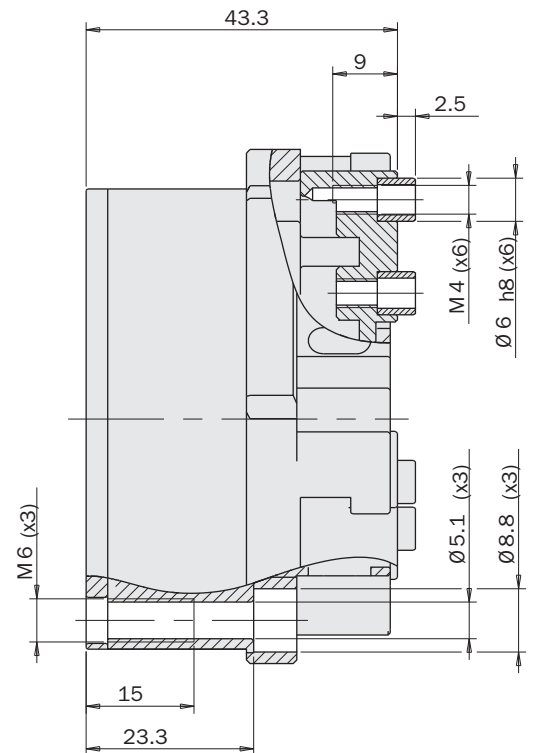
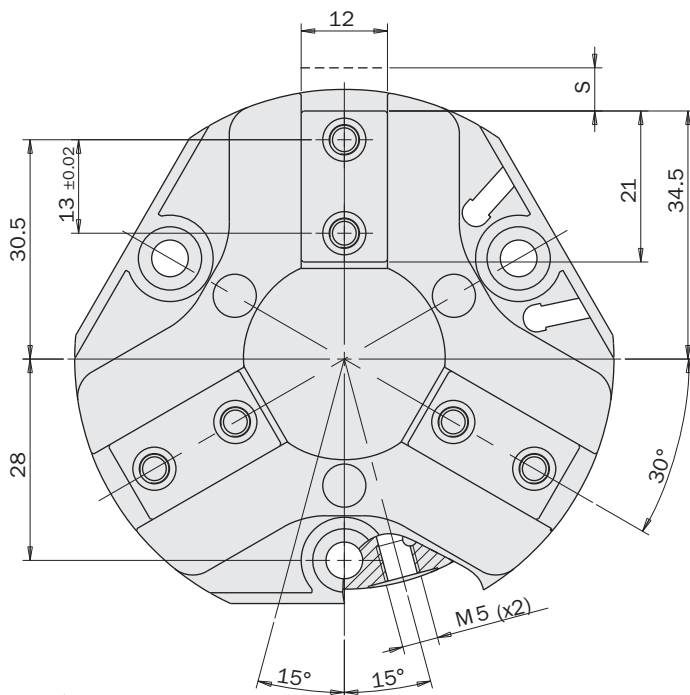
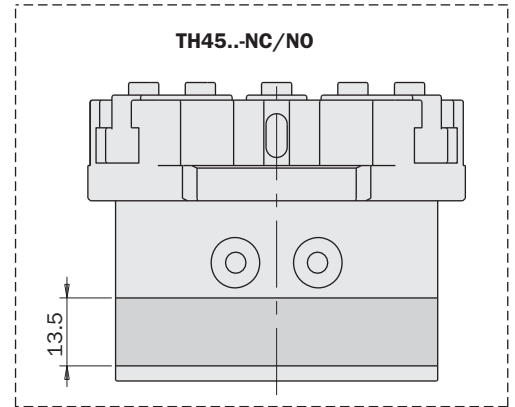
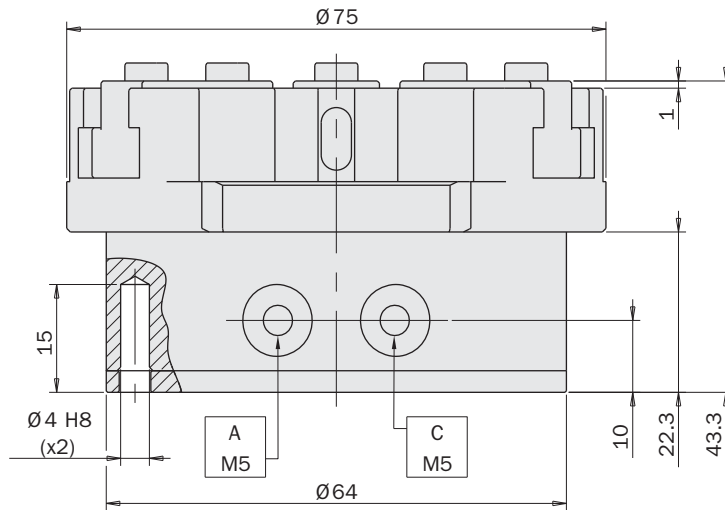
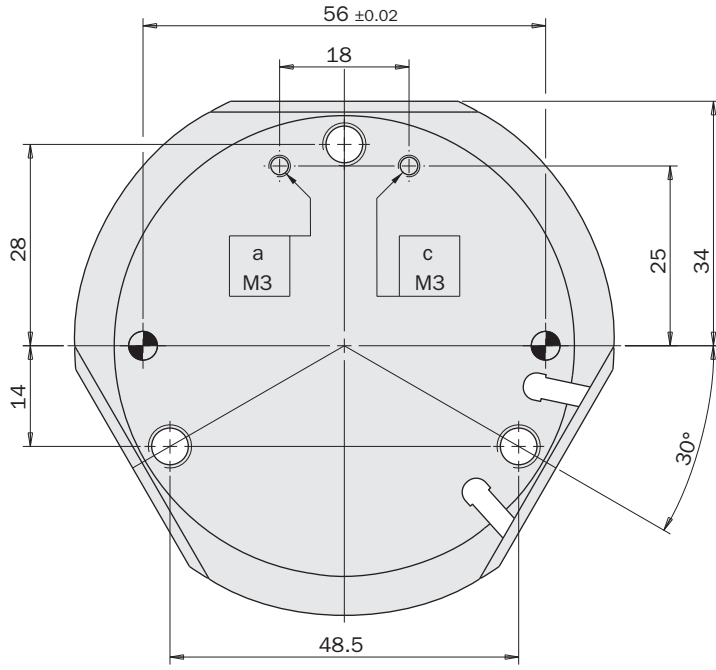
Gripping force

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.



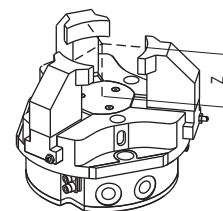
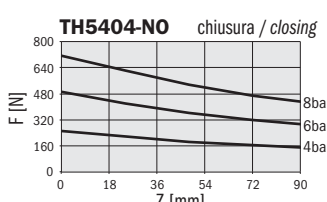
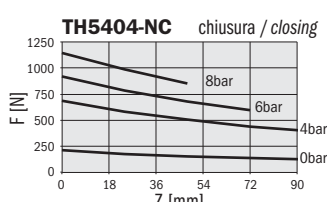
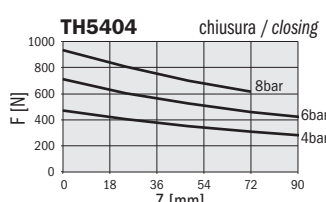
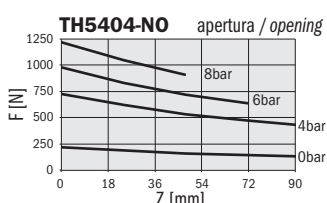
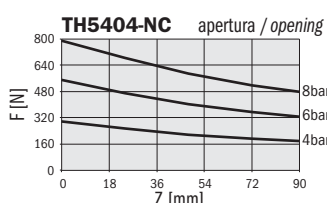
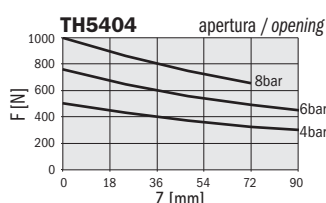
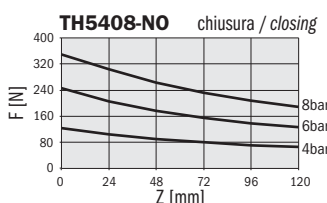
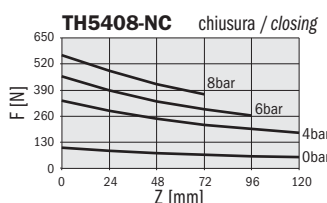
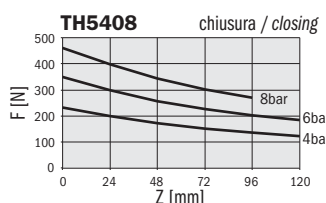
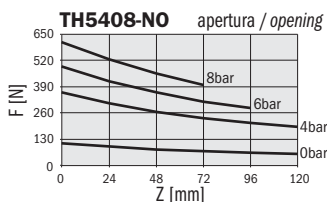
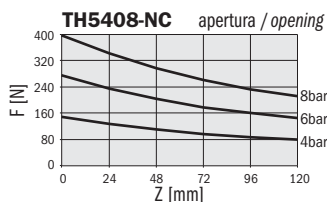
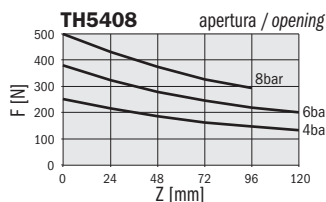
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Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 60°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 ³	67cm ³	67cm ³	42cm ³	67cm ³	67cm ³
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.

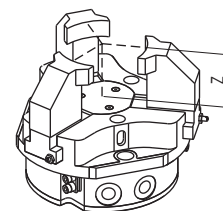
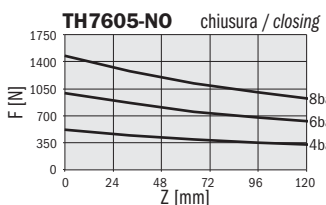
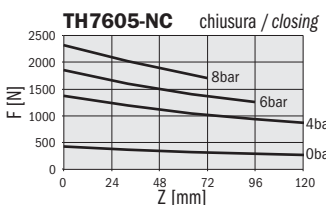
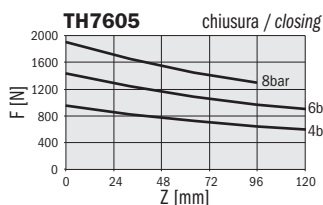
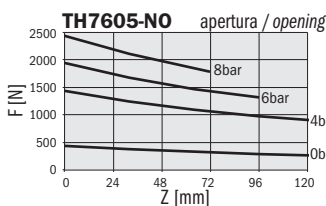
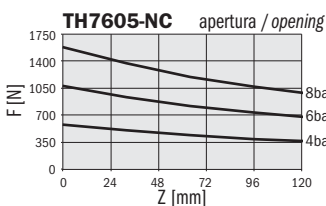
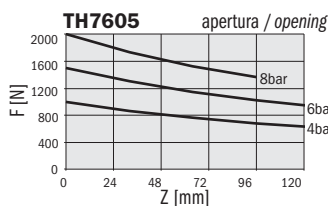
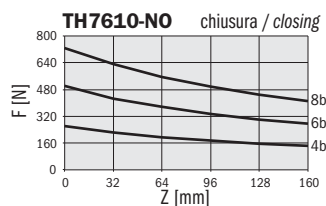
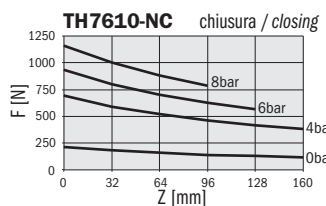
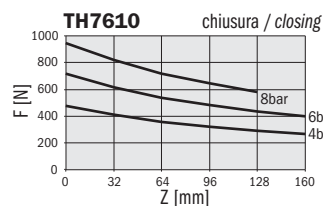
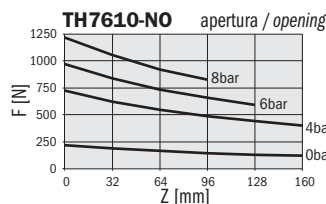
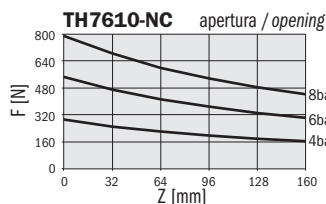
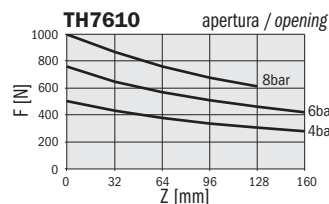
	TH7610	TH7610-NC	TH7610-NO	TH7605	TH7605-NC	TH7605-NO
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 60°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 ³	174cm ³	174cm ³	106cm ³	174cm ³	174cm ³
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.

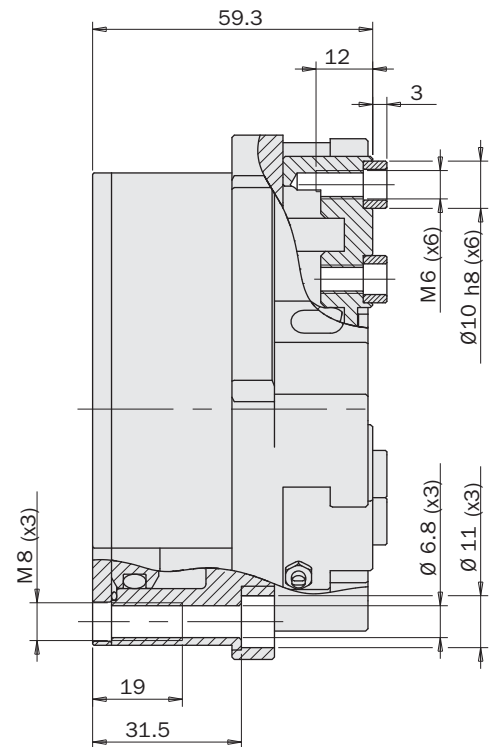
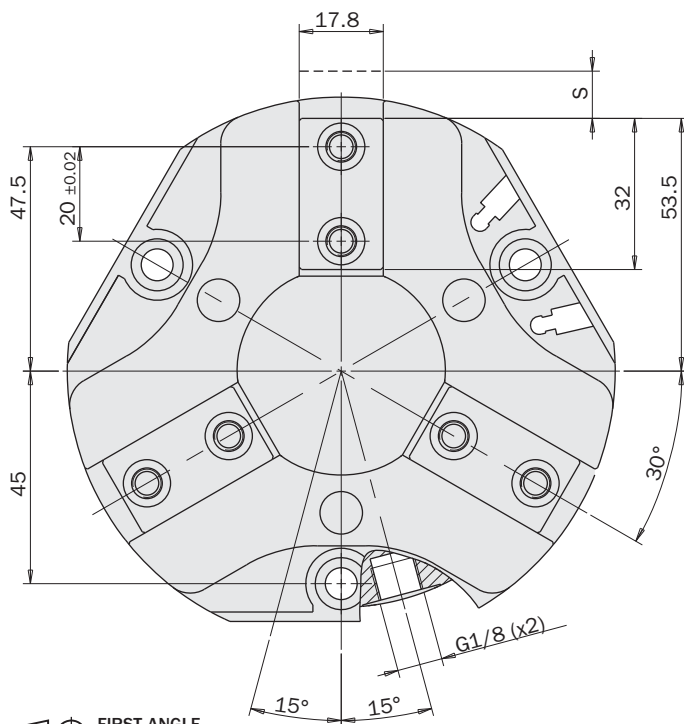
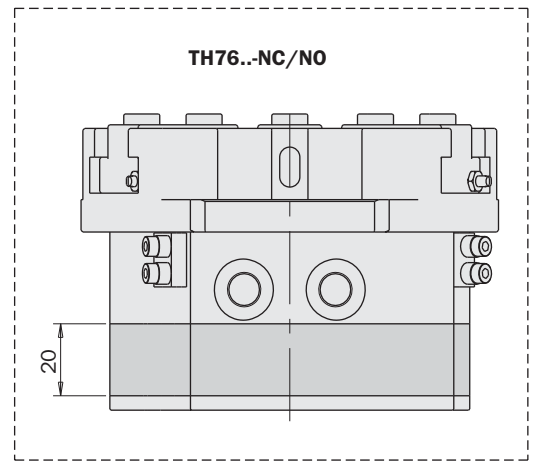
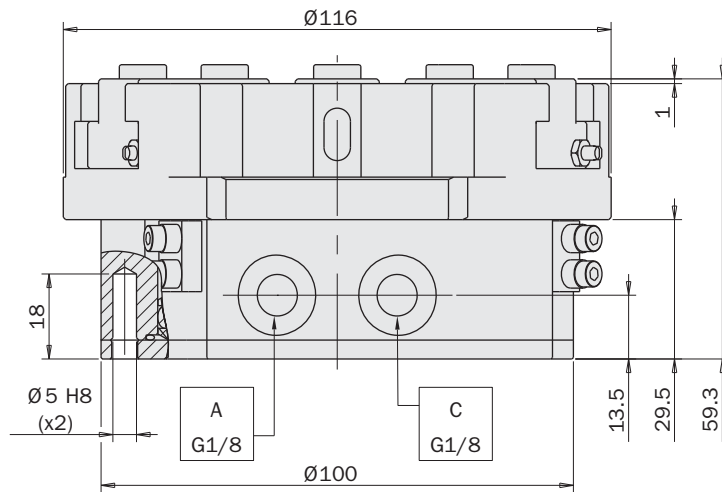
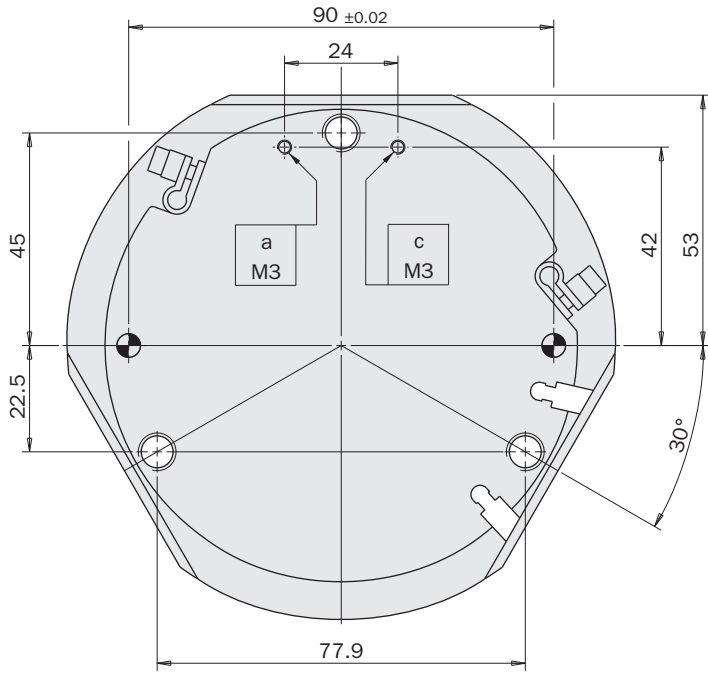


La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.

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

Dimensioni (mm) / Dimensions (mm)

TH76



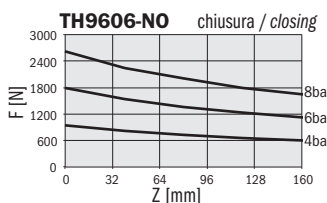
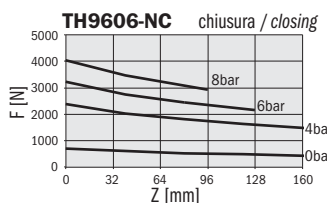
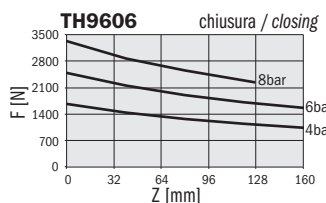
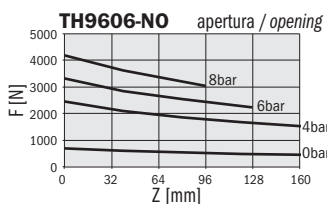
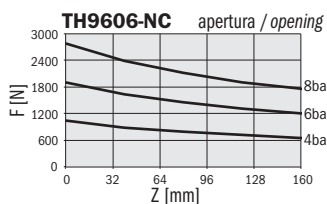
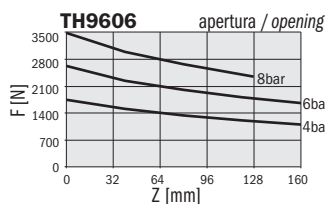
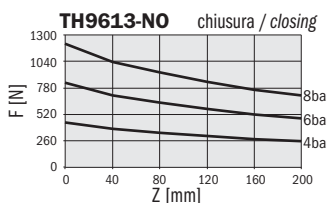
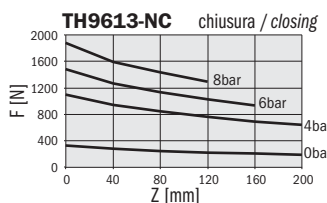
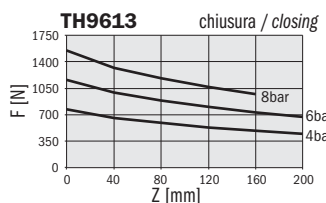
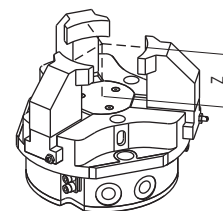
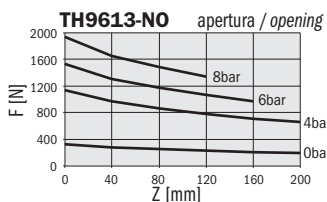
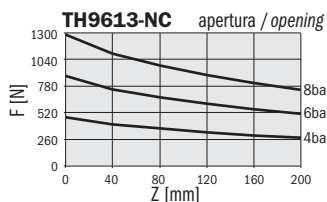
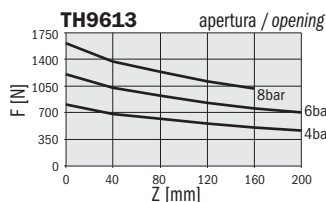
	TH9613	TH9613-NC	TH9613-NO	TH9606	TH9606-NC	TH9606-NO
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 60°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 ³	335cm ³	335cm ³	221cm ³	335cm ³	335cm ³
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

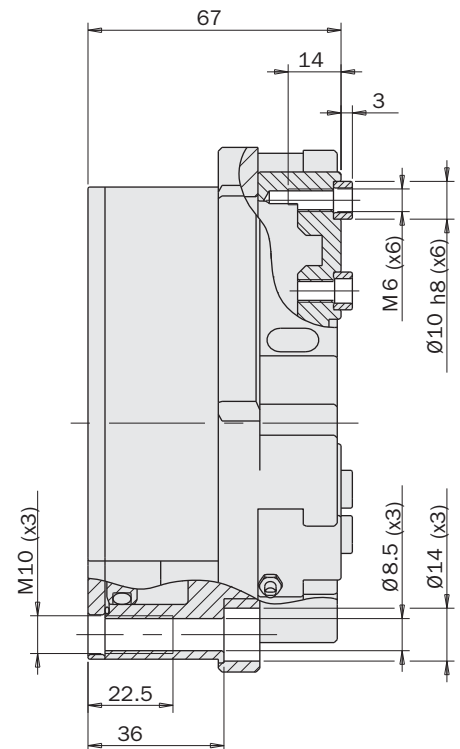
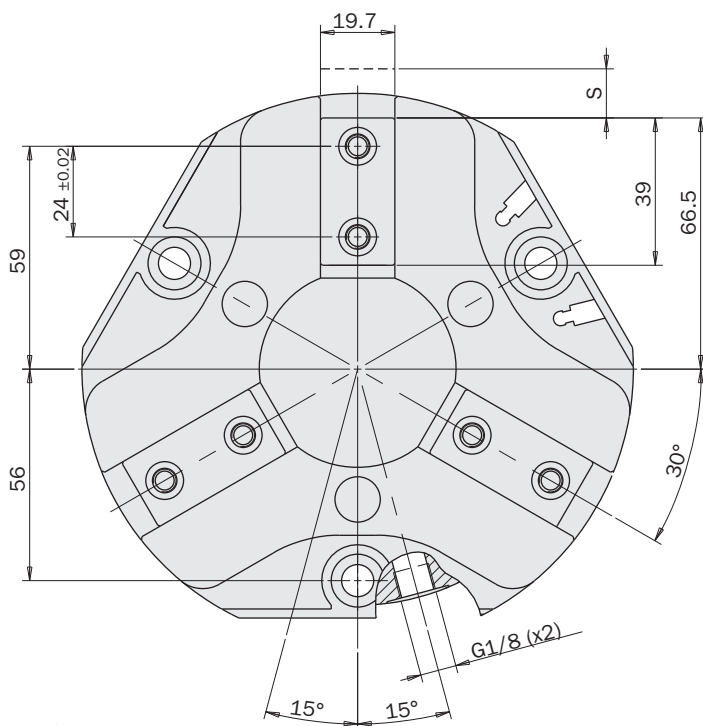
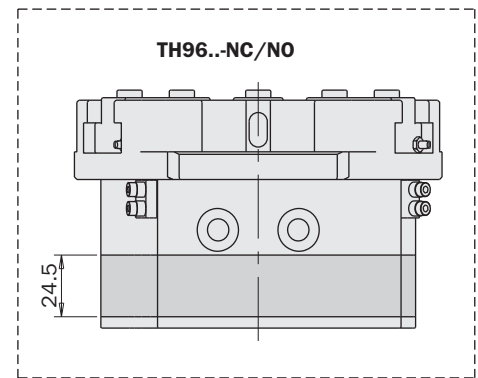
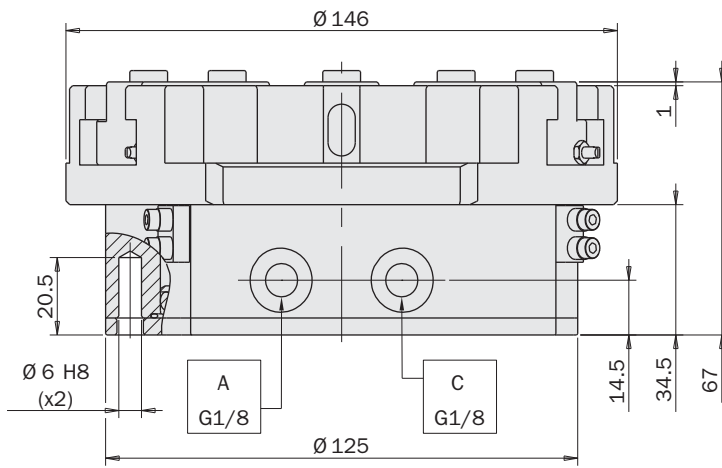
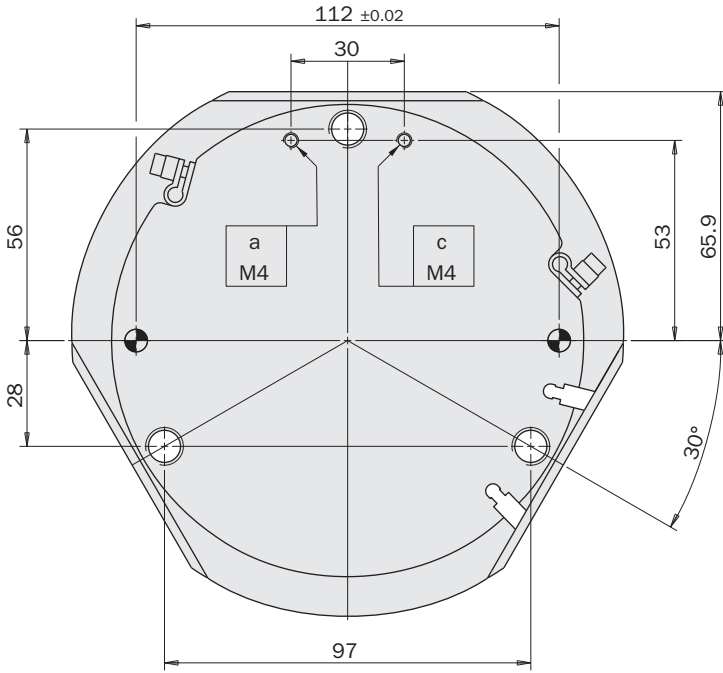
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



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)



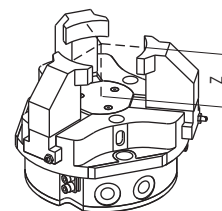
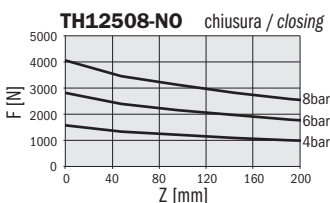
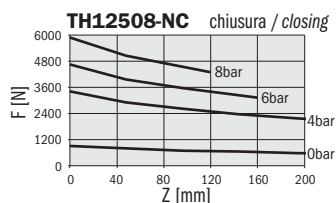
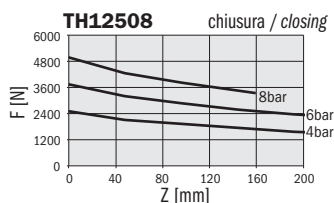
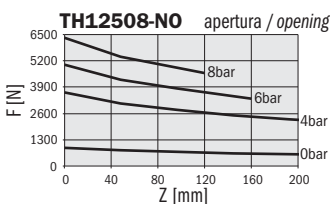
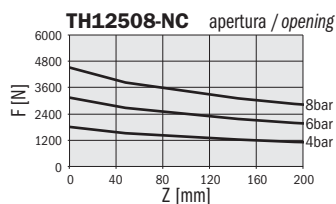
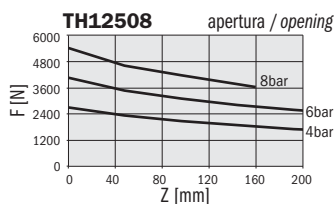
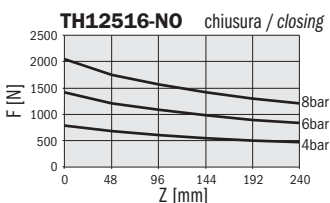
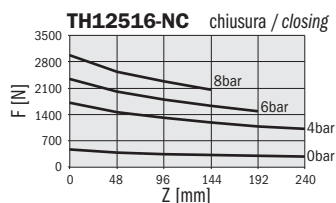
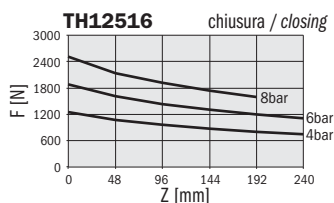
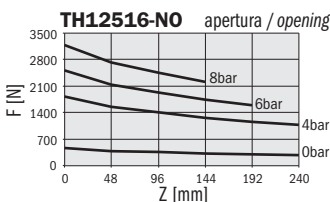
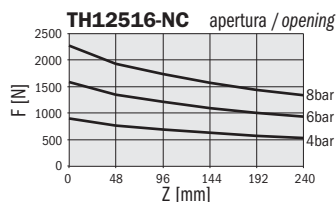
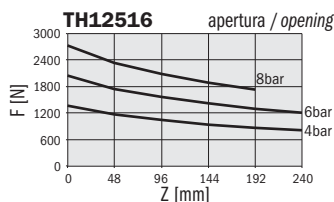
	TH12516	TH12516-NC	TH12516-NO	TH12508	TH12508-NC	TH12508-NO
Fluido Medium	Aria compressa filtrata, lubrificata / non lubrificata Filtered, lubricated / non lubricated compressed air					
Pressione di esercizio Operating pressure range	1.5 ÷ 8bar	3 ÷ 8bar	3 ÷ 8bar	1.5 ÷ 8bar	3 ÷ 8bar	3z ÷ 8bar
Temperatura di esercizio Operating temperature range	5 ÷ 60°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 ³	700cm ³	700cm ³	452cm ³	700cm ³	700cm ³
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.

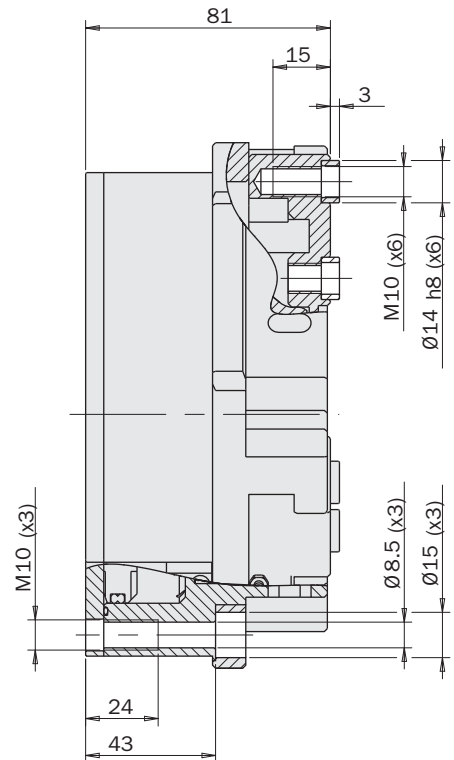
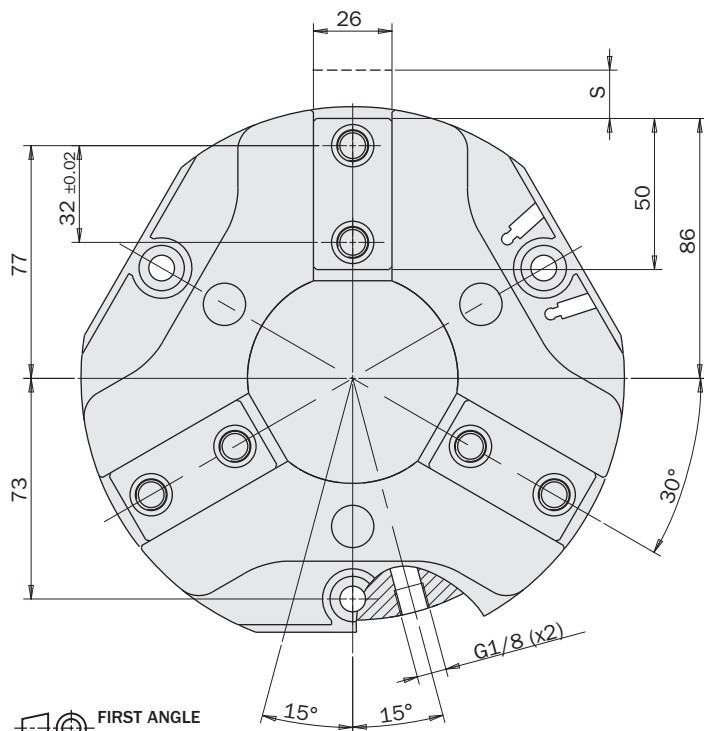
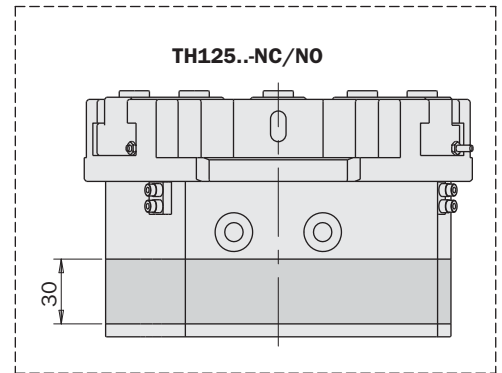
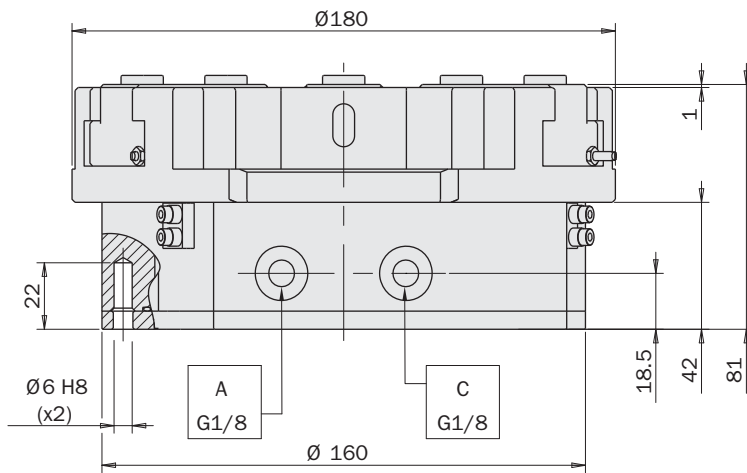
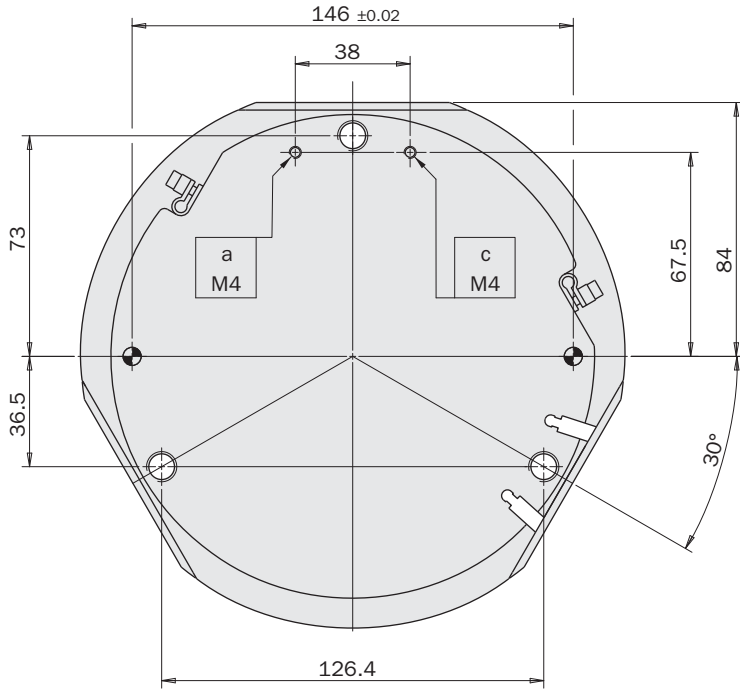
Gripping force

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



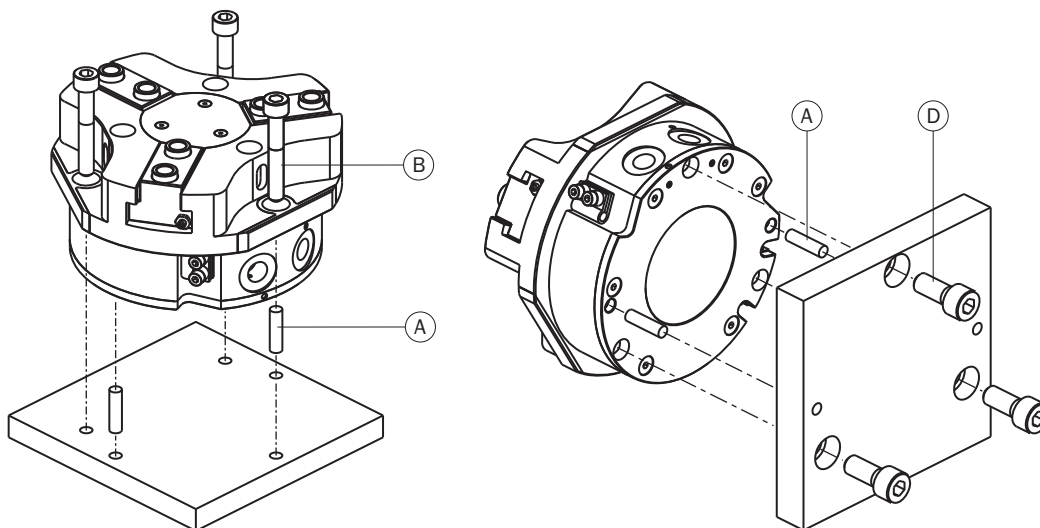
La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il triplo.

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



Fissaggio della pinza

La pinza può essere montata in posizione fissa oppure su parti in movimento: in questo caso va considerata la forza d'inerzia cui la pinza ed il suo carico sono sottoposti. Per il fissaggio bisogna usare 3 viti e 2 spine di centraggio (A). Le viti possono essere passanti attraverso la pinza (B), o attraverso la piastra di fissaggio (D).



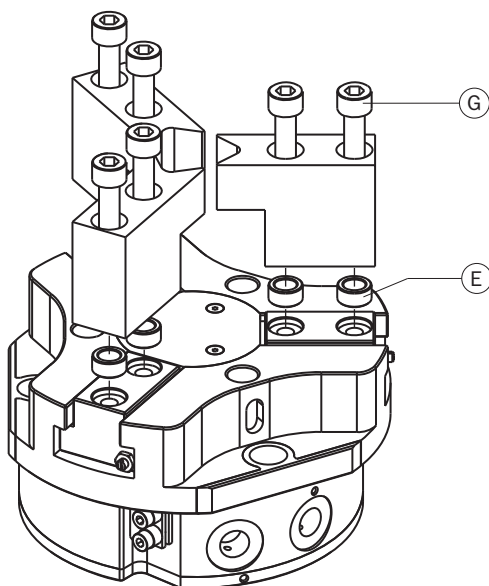
	TH27	TH33	TH46	TH54	TH76	TH96	TH125
A	Ø2	Ø3	Ø4	Ø5	Ø5	Ø6	Ø6
B	M3	M3	M5	M6	M6	M8	M8
D	M4	M4	M6	M8	M8	M10	M10

Gripper fastening

The gripper can be fastened to a static or moving part. When on a moving part, you must pay attention to the forces created by inertia on the gripper and its load. Use 3 screws and 2 centering pins (A), for the gripper fastening. The screws can go through the gripper (B), or through the mounting plate (D).

Fissaggio delle estremità di presa

Costruire le dita di presa il più possibile corte e leggere. Fissarle con 2 viti (G) e 2 bocche di centraggio (E).



Gripping tool fastening

The gripping tools must be as short and light as possible. They must be fastened by 2 screws (G) and 2 centering sleeves (E).

	G	E
TH27	M2.5	Ø4h8
TH33	M3	Ø5h8
TH45	M4	Ø6h8
TH54	M5	Ø8h8
TH76	M6	Ø10h8
TH96	M6	Ø10h8
TH125	M10	Ø14h8



Nella confezione della pinza sono fornite 6 bocche di centraggio per le dita di presa.

6 centering rings for the gripping tools are supplied in the packaging.

Carichi di sicurezza

Consultare la tabella per i carichi massimi ammissibili. Forze e coppie eccessive possono danneggiare la pinza e causare difficoltà di funzionamento compromettendo la sicurezza dell'operatore.

F_s , $M_x s$, $M_y s$, $M_z s$, sono i carichi massimi ammissibili in condizioni statiche, cioè con le griffe ferme.

F_d , $M_x d$, $M_y d$, $M_z d$, sono i carichi massimi ammissibili in condizioni dinamiche, cioè con le griffe in movimento.

Inoltre sono riportate le masse ammissibili (m) per ogni dito di presa in funzione del tempo di apertura o chiusura. Usare i regolatori di flusso (non forniti) per ottenere la velocità desiderata.

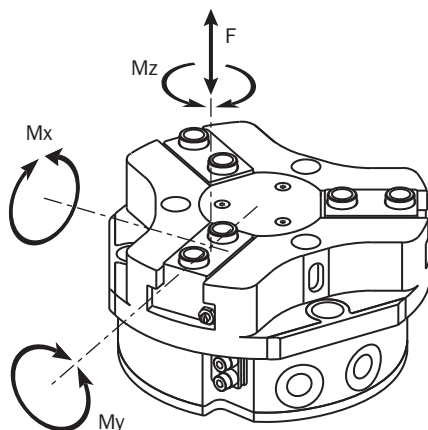
Safety loads

Check the table for maximum permitted loads.

Excessive forces or torques can damage the gripper, cause functioning troubles and endanger the safety of the operator. F_s , $M_x s$, $M_y s$, $M_z s$, are maximum permitted static loads. Static means motionless jaws.

F_d , $M_x d$, $M_y d$, $M_z d$, are maximum permitted dynamic loads. Dynamic means running jaws.

The following table shows the specified maximum loads (m) on each gripping tool as a function of closing or opening time. Use flow controllers (not supplied) to get the proper speed.



	TH2725 TH2725-NC TH2725-NO	TH3304 TH3304-NC TH3304-NO	TH3302 TH3302-NC TH3302-NO	TH4506 TH4506-NC TH4506-NO	TH4503 TH4503-NC TH4503-NO	TH5408 TH5408-NC TH5408-NO	TH5404 TH5404-NC TH5404-NO
F_s	200N	350N	350N	600N	600N	900N	900N
$M_x s$	3.4Nm	7Nm	11Nm	16Nm	25Nm	28Nm	47Nm
$M_y s$	2.8Nm	5.8Nm	5.8Nm	13Nm	13Nm	24Nm	24Nm
$M_z s$	2.8Nm	5.8Nm	5.8Nm	13Nm	13Nm	24Nm	24Nm
F_d	2N	4N	4N	6N	6N	9N	9N
$M_x d$	0.06Nm	0.12Nm	0.12Nm	0.25Nm	0.25Nm	0.5Nm	0.5Nm
$M_y d$	0.06Nm	0.12Nm	0.12Nm	0.25Nm	0.25Nm	0.5Nm	0.5Nm
$M_z d$	0.06Nm	0.12Nm	0.12Nm	0.25Nm	0.25Nm	0.5Nm	0.5Nm
m	100g	180g	180g	350g	350g	600g	600g

	TH7610 TH7610-NC TH7610-NO	TH7605 TH7605-NC TH7605-NO	TH9613 TH9613-NC TH9613-NO	TH9606 TH9606-NC TH9606-NO	TH12516 TH12516-NC TH12516-NO	TH12508 TH12508-NC TH12508-NO
F_s	1500N	1500N	2500N	2500N	4000N	4000N
$M_x s$	79Nm	130Nm	160Nm	280Nm	330Nm	540Nm
$M_y s$	65Nm	65Nm	130Nm	130Nm	270Nm	270Nm
$M_z s$	65Nm	65Nm	130Nm	130Nm	270Nm	270Nm
F_d	15N	15N	25N	25N	40N	40N
$M_x d$	1Nm	1Nm	2Nm	2Nm	4Nm	4Nm
$M_y d$	1Nm	1Nm	2Nm	2Nm	4Nm	4Nm
$M_z d$	1Nm	1Nm	2Nm	2Nm	4Nm	4Nm
m	1100g	1100g	2100g	2100g	3500g	3500g

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.

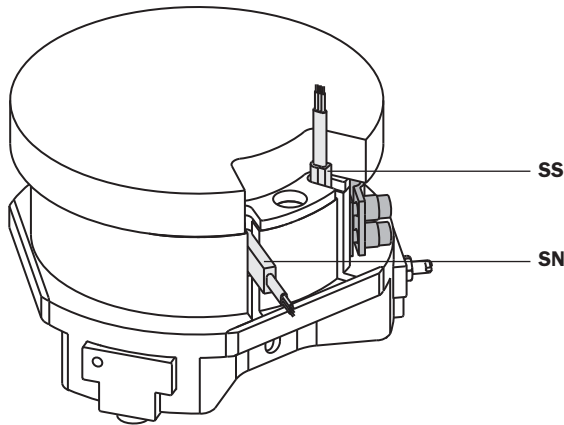
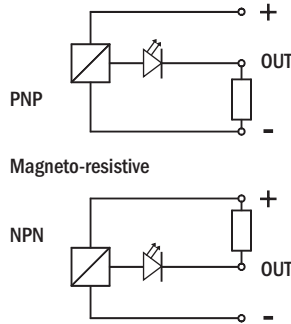
Magnetic sensors (optional)

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.

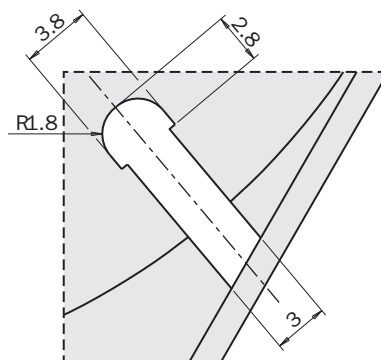
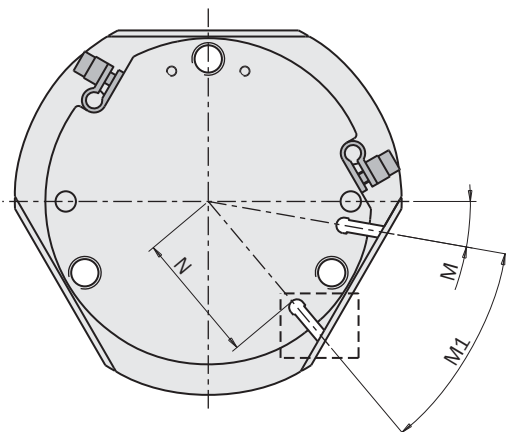
I sensori utilizzabili sono:

Use sensors:

			TH
SN4N225-G	PNP	2.5m cable	☑
SN4M225-G	NPN	2.5m cable	☑
SN3N203-G	PNP	M8 connector	☑
SN3M203-G	NPN	M8 connector	☑
SS4N225-G	PNP	2.5m cable	☑
SS4M225-G	NPN	2.5m cable	☑
SS3N203-G	PNP	M8 connector	☑
SS3M203-G	NPN	M8 connector	☑



	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).

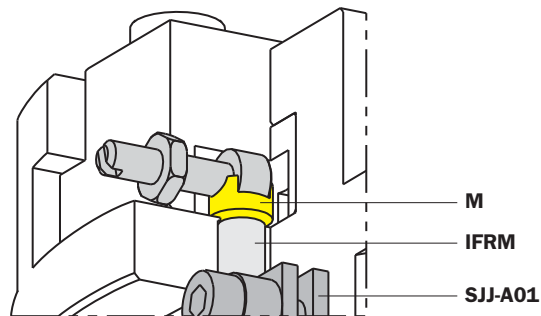
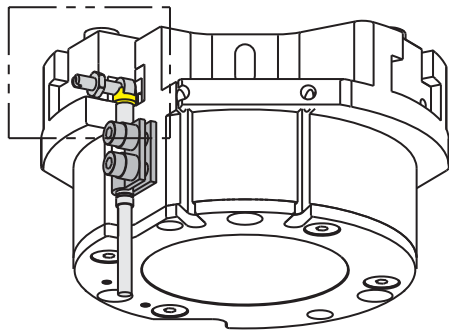
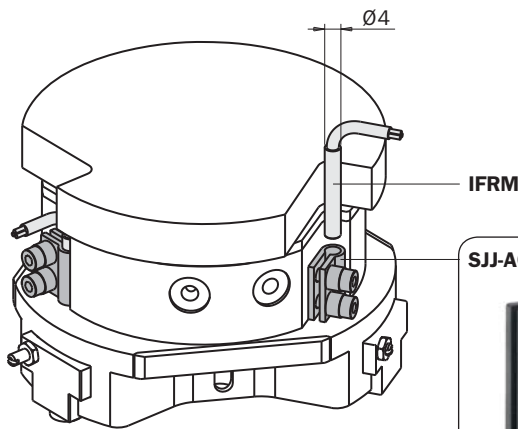
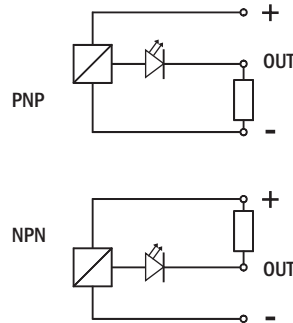
Dopo aver fissato il sensore va regolata la posizione della parte metallica (M) per stabilire il punto di accensione.

Inductive sensors (optional)

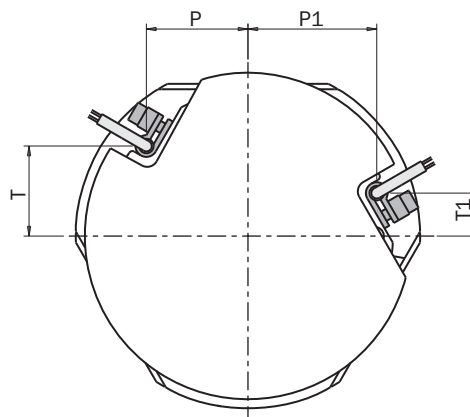
With the larger sizes it is also possible to use inductive sensors diameter 4mm, which can be fastened by the holders SJJ-A01 (supplied).

After the sensor fastening, the position of the metal part (M) must be adjusted to select the on point.

			TH54 TH76 TH96 TH125
IFRM04N15A1/L	NPN	2.5m cable	<input checked="" type="checkbox"/>
IFRM04P15A1/L	PNP	2.5m cable	<input checked="" type="checkbox"/>

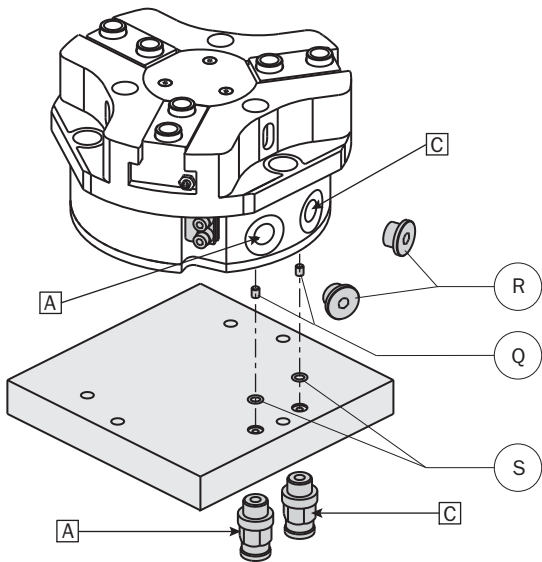


	TH54	TH76	TH96	TH125
P	28	34.8	45.6	56.8
P1	35.5	44.1	56.2	71.3
T	10.9	14.7	20.2	24.4
T1	24.9	30.8	38.6	49.6



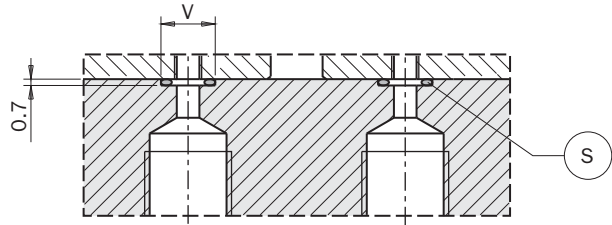
Connessione pneumatica

La pinza può essere alimentata con aria compressa dai fori laterali (A e C) montandovi i raccordi dell'aria ed i relativi tubi (non forniti), oppure direttamente da quelli sul fondo. Aria compressa in A: apertura della pinza. Aria compressa in C: chiusura della pinza. La pinza è azionata con aria compressa filtrata (5÷40 µm) non necessariamente lubrificata. La scelta iniziale, lubrificata o non lubrificata, deve essere mantenuta per tutta la vita della pinza. L'impianto pneumatico deve essere pressurizzato gradualmente, per evitare movimenti incontrollati.



Compressed air feeding

The compressed air feeding is accomplished on the lateral air ports (A and C) with fittings and hoses (not supplied), or directly on the bottom air ports. Compressed air in A: gripper opening. Compressed air in C: gripper closing. The compressed air, must be filtered from 5 to 40 µm. Maintain the medium selected at the start, lubricated or not, for the complete service life of the gripper. The pneumatic circuit must be pressurized progressively, to avoid uncontrolled movements.



	Q	R	S	V
TH27	M2	M3	GUAR-172 (Ø1x2.5)	Ø4.5
TH33	M2	M5	GUAR-172 (Ø1x2.5)	Ø4.5
TH45	M3	M5	GUAR-167 (Ø1x3.5)	Ø5.5
TH54	M2.5	M5	GUAR-167 (Ø1x3.5)	Ø5.5
TH76	M3	G1/8	GUAR-091 (Ø1x4)	Ø6
TH96	M4	G1/8	GUAR-021 (Ø1x5)	Ø7
TH125	M4	G1/8	GUAR-021 (Ø1x5)	Ø7

Circuito pneumatico

Possibili inconvenienti sul circuito di alimentazione dell'aria compressa:

- 1- Oscillazioni di pressione.
- 2- Riempimento pinza vuota all'avvio.
- 3- Improvvisa mancanza di pressione.
- 4- Velocità di azionamento eccessiva.

Accorgimenti per risolvere i problemi:

- 1- Serbatoio esterno (A).
- 2- Valvola di avviamento progressivo (B).
- 3- Valvole di sicurezza (C).
- 4- Regolatori di flusso (D).

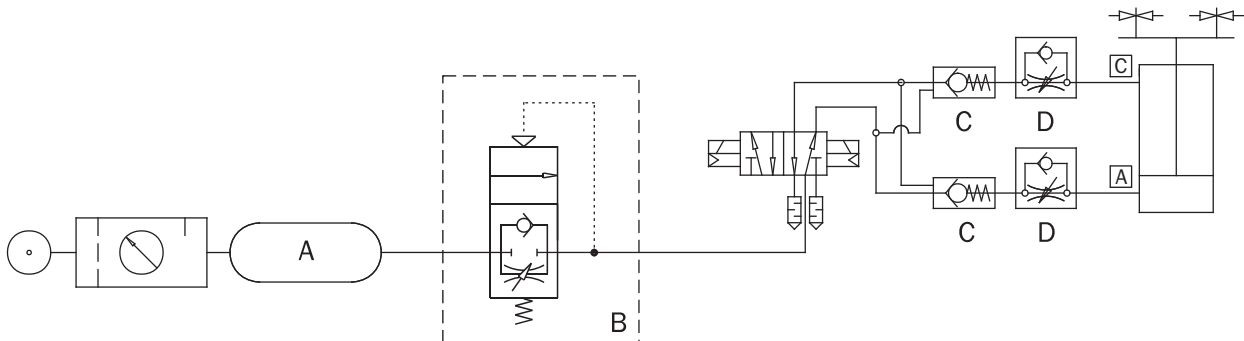
Pneumatic circuit

Possible problems on a compressed air circuit:

- 1- Pressure variation.
- 2- Pressurizing with empty cylinder.
- 3- Sudden pressure black-out.
- 4- Excessive speed of the jaws.

Possible solutions:

- 1- Compressed air storage (A).
- 2- Start-up valve (B).
- 3- Safety valve (C).
- 4- Flow controller (D).



Avvertenze

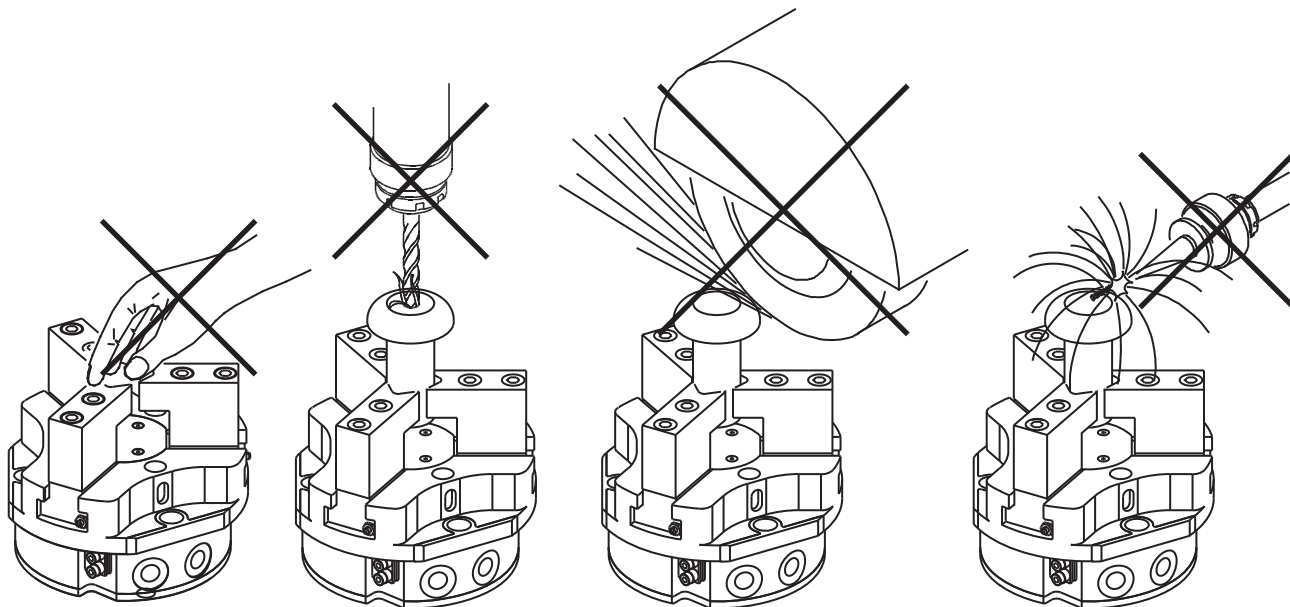
Evitare il contatto con sostanze corrosive, spruzzi di saldatura, polveri abrasive, che potrebbero danneggiare la funzionalità della pinza.

Per nessun motivo, persone od oggetti estranei devono entrare nel raggio d'azione della pinza.

La pinza non deve essere messa in servizio prima che la macchina di cui fa parte sia stata dichiarata conforme alle disposizioni di sicurezza vigenti.

Caution

Avoid the gripper coming into contact with the following media: coolants which cause corrosion, grinding dust or glowing sparks. Make sure that nobody can place his/her hand between the gripping tools and there are no objects in the path of the gripper. The gripper must not run before the whole machine, on which it is mounted, complies with the laws or safety norms of your country.

**Manutenzione**

La pinza va ingrassata ogni 5 milioni di cicli con:

- Molykote DX (parti metalliche).
- Molykote PG75 (guarnizioni).

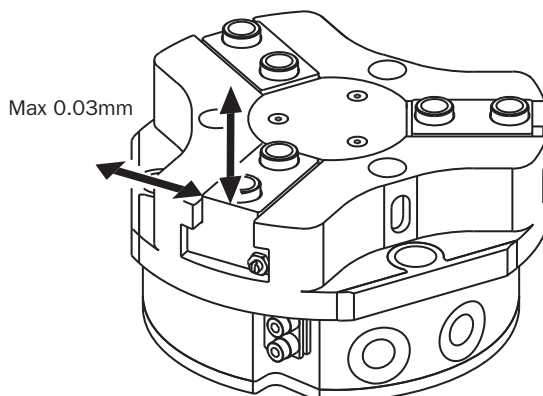
Il gioco delle griffe è indicato qui sotto.

Maintenance

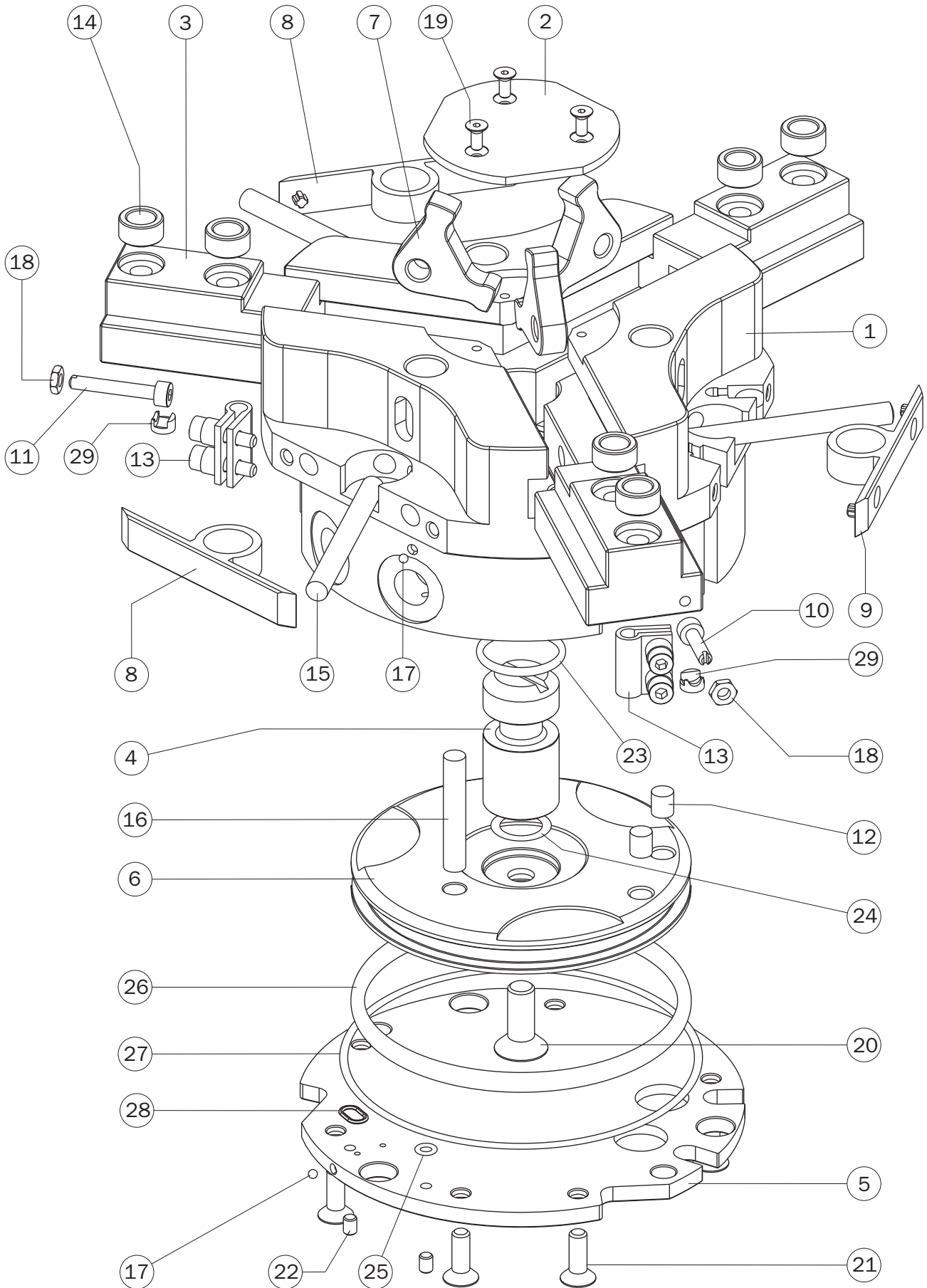
Grease the gripper after 5 million cycles with:

- Molykote DX (metal on metal).
- Molykote PG75 (gaskets).

The figure below shows the jaw backlash.



Vista esplosa / Exploded view

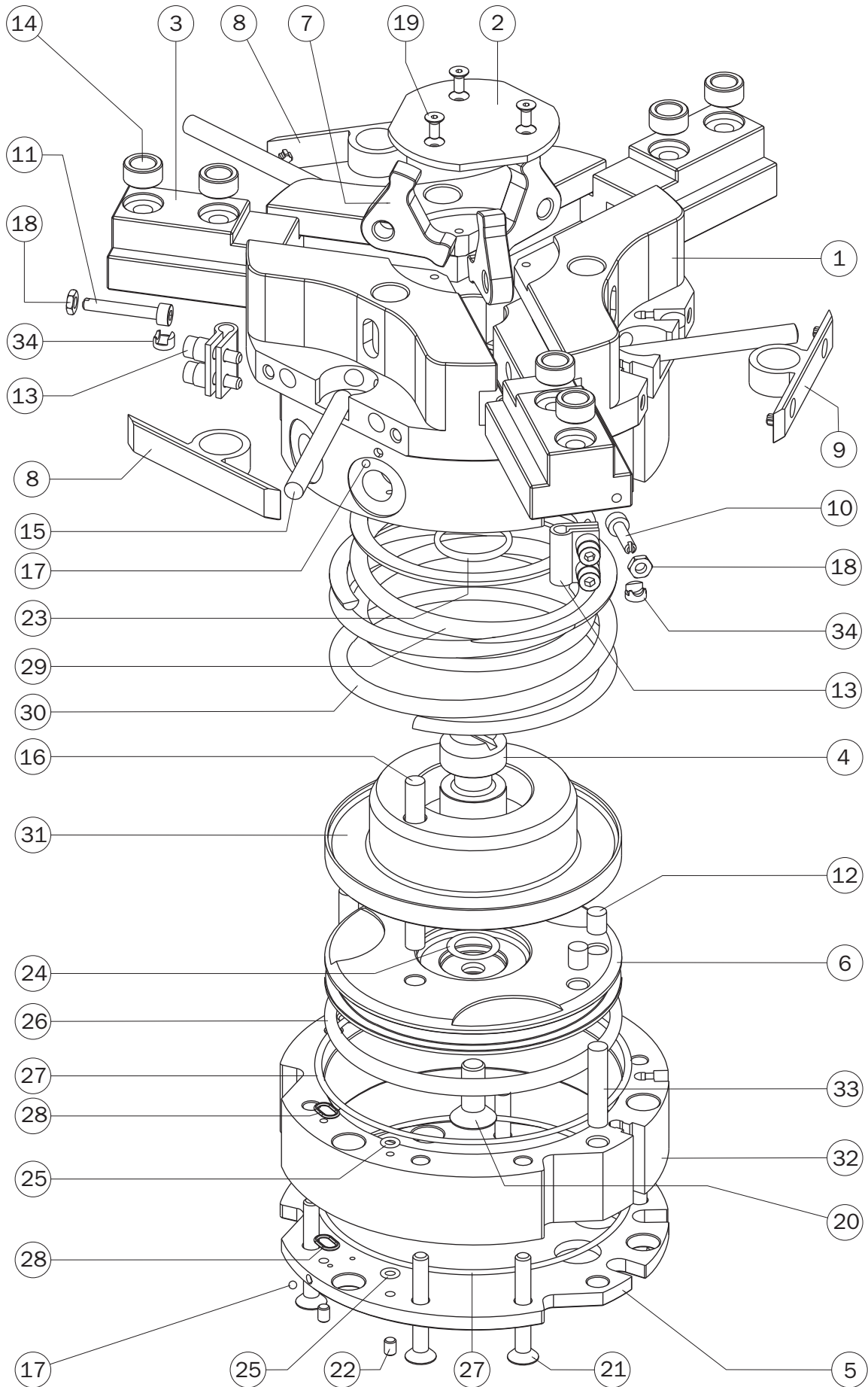


Elenco delle parti / Part list

		TH2725	TH3302 TH3304	TH4503 TH4506	TH5404 TH5408	TH7605 TH7610	TH9606 TH9613	TH12508 TH12516		
1	Corpo pinza	TH2725-01	TH3304-01	TH4506-01	TH5408-01	TH7610-01	TH9613-01	TH12516-01	Gripper housing	1
2	Protezione	TH2725-07	TH3304-07	TH4506-06	TH5408-07	TH7610-02	TH9613-04	TH12516-07	Protection	2
3	Griffa	TH2725-03	TH3304-02	TH4506-02	TH5408-03	TH7610-03	TH9613-03	TH12516-03	Jaw	3
4	Stelo	T2725-04	TH3304-05	TH4506-05	T5408-04	TH7610-05	TH9613-05	TH12516-04	Piston rod	4
5	Fondello	TH2725-02	TH3304-03	TH4506-03	TH5408-02	TH7610-06	TH9613-02	TH12516-02	Back end plate	5
6	Pistone	TH2725-06	TH3304-04	TH4506-04	TH5408-06	TH7610-04	TH9613-04	TH12516-06	Piston	6
7	Leva	TH2725-05	TH3302-01 TH3304-06	TH4503-01 TH4506-07	TH5404-05 TH5408-05	TH7605-01 TH7610-07	TH9606-01 TH9613-07	TH12508-05 TH12516-05	Lever	7
8	Coperchio laterale	TH2725-08	TH3304-08	TH4506-08	TH5408-08	TH7610-08	TH9613-08	TH12516-08	Side cover	8
9	Coperchio laterale forato	TH2725-08F	TH3304-08F	TH4506-08F	TH5408-08F	TH7610-08F	TH9613-08F	TH12516-08F	Side cover with holes	9
10	Vite registro sensore induttivo	-	-	-	TH5408-09	TH5408-09	TH9613-09	TH7610-09	Adjustment screw for inductive sensor	10
11	Vite registro sensore induttivo	-	-	-	TH5408-10	TH7610-09	TH5408-09	TH12516-10	Adjustment screw for inductive sensor	11
12	Magnete	EPP12-13	EPP12-13	FES16-3-9	FES16-3-9	FES16-3-9	FES16-3-9	FES16-3-9	Magnet	12
13	Supporto sensore	-	-	-	SJJ-A01	SJJ-A01	SJJ-A01	SJJ-A01	Sensor holder	13
14	Boccola	SGP-20-09	ZBH-5	SGP-32-09	LP23-62	PQ5047-07	PQ5047-07	TH12516-09	Bush	14
15	Spina di riferimento	SPINA-057 Ø2.5x11.8 DIN6325	SPINA-042 Ø3x16 DIN6325	SPINA-033 Ø4x25 DIN6325	SPINA-013 Ø5x40 DIN6325	SPINA-115 Ø5x36 DIN6325	SPINA-030 Ø6x36 DIN6325	SPINA-058 Ø8x60 DIN6325	Dowel pin	15
16	Spina di riferimento	SPINA-005 Ø2x10 DIN6325	SPINA-001 Ø2x14 DIN6325	SPINA-069 Ø2.5x17.8 DIN5402	SPINA-014 Ø4x16 DIN6325	SPINA-035 Ø5x30 DIN6325	SPINA-114 Ø5x32 DIN6325	SPINA-032 Ø6x40 DIN6325	Dowel pin	16
17	Sfera	SPINA-180 Ø1.5 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-092 Ø3 DIN5401A	SPINA-092 Ø3 DIN5401A	Ball	17
18	Dado esagonale	-	-	-	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	Nut	18
19	Vite	VITE-419 M2x3 DIN965	VITE-360 M2x4 DIN965	VITE-058 M2.5x5 DIN965	VITE-234 M2.5x6 DIN7991	VITE-234 M2.5x6 DIN7991	VITE-306 M3x8 DIN7991	VITE-305 M4x8 DIN7991	Screw	19
20	Vite	VITE-305 M4x8 DIN7991	VITE-352 M4x10 DIN7991	VITE-290 M5x12 DIN7991	VITE-290 M5x12 DIN7991	VITE-405 M6x16 DIN7991	VITE-428 M6x25 DIN7991	VITE-339 M10x35 DIN7991	Screw	20
21	Vite	VITE-170 M2.5x6 DIN965	VITE-306 M3x8 DIN7991	VITE-305 M4x8 DIN7991	VITE-352 M4x10 DIN7991	VITE-426 M4x12 DIN7991	VITE-430 M5x12 DIN7991	VITE-405 M6x16 DIN7991	Screw	21
22	Vite senza testa	VITE-432 M2x2.5 DIN913	VITE-432 M2x2.5 DIN913	VITE-229 M3x3 DIN913	VITE-414 M2.5x3 DIN913	VITE-018 M3x4 DIN913	VITE-415 M4x4 DIN913	VITE-273 M4x5 DIN913	Grub screw	22
23	Guarnizione	GUAR-045H Ø1.78x7.66	GUAR-080H Ø1.78x10.82	GUAR-095H Ø1.78x11.89	GUAR-007H Ø1.78x14	GUAR-076H Ø1.78x17.17	GUAR061H Ø2.62x20.29	GUAR-158H Ø2.62x36.17	O-RING gasket	23
24	Guarnizione	-	GUAR-168 Ø1x9	GUAR-089 Ø1x10	-	GUAR-089 Ø1x10)	GUAR-047 Ø1.78x12.42	GUAR-030 Ø1.78x25.12	O-RING gasket	24
25	Guarnizione	GUAR-161 Ø1x1.8	GUAR-130 Ø1x2	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-091 Ø1x4	O-RING gasket	25
26	Guarnizione	GUAR-032H Ø2.62x21.89	GUAR-170H Ø2.62x28.25	GUAR-026P PZ4520	GUAR-182H Ø2.62x48.89	GUAR-191H Ø3.53x69.44	GUAR-195H Ø3.53x88.49	GUAR-187H Ø3.53x117.07	O-RING gasket	26
27	Guarnizione	GUAR-190 Ø1.5x27	GUAR-148 Ø1.78x33.05	GUAR-017 Ø1.78x47.35	GUAR-050 Ø1.78x56.87	GUAR-192 Ø1.78x75.92	GUAR-194 Ø1.78x94.97	GUAR-188 Ø1.78x126.72	O-RING gasket	27
28	Guarnizione	GUAR-091 Ø1x4	GUAR-021 Ø1x5	GUAR-021 Ø1x5	GUAR-171 Ø1x4.5	GUAR-021 Ø1x5	GUAR-085 Ø1x8	GUAR-085 Ø1x8	O-RING gasket	28
29	Trascinatore per sensore	-	-	-	DH3516-14	DH3516-14	DH3516-14	DH3516-14	Sensor activator	29

Vista esplosa / Exploded view

TH NC

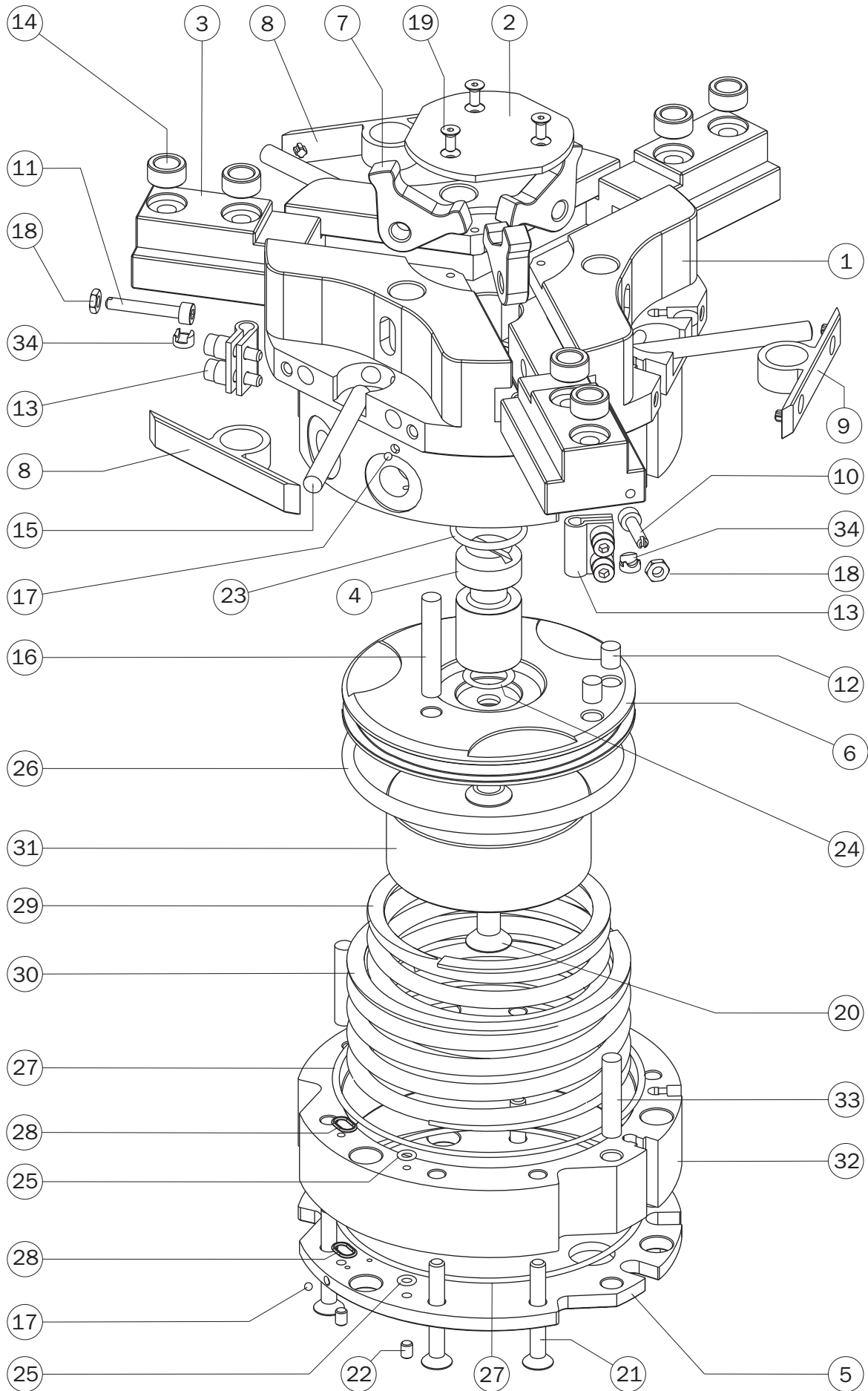


Elenco delle parti / Part list

		TH2725-NC	TH3302-NC TH3304-NC	TH4503-NC TH4506-NC	TH5404-NC TH5408-NC	TH7605-NC TH7610-NC	TH9606-NC TH9613-NC	TH12508-NC TH12516-NC		
1	Corpo	TH2725-01	TH3304-01	TH4506-01	TH5408-01	TH7610-01	TH9613-01	TH12516-01	Gripper housing	1
2	Protezione	TH2725-07	TH3304-07	TH4506-06	TH5408-07	TH7610-02	TH9613-04	TH12516-07	Protection	2
3	Griffa	TH2725-03	TH3304-02	TH4506-02	TH5408-03	TH7610-03	TH9613-03	TH12516-03	Jaw	3
4	Stelo	T2725-10	TH3304-10	TH4506-13	T5408-12	TH7610-14	TH9613-14	TH12516-14	Piston rod	4
5	Fondello	TH2725-02	TH3304-03	TH4506-03	TH5408-02	TH7610-06	TH9613-02	TH12516-02	Back end plate	5
6	Pistone	TH2725-06	TH3304-04	TH4506-04	TH5408-06	TH7610-04	TH9613-04	TH12516-06	Piston	6
7	Leva	TH2725-05	TH3302-01 TH3304-06	TH4503-01 TH4506-07	TH5404-05 TH5408-05	TH7605-01 TH7610-07	TH9606-01 TH9613-07	TH12508-05 TH12516-05	Lever	7
8	Coperchio laterale	TH2725-08	TH3304-08	TH4506-08	TH5408-08	TH7610-08	TH9613-08	TH12516-08	Side cover	8
9	Coperchio laterale forato	TH2725-08F	TH3304-08F	TH4506-08F	TH5408-08F	TH7610-08F	TH9613-08F	TH12516-08F	Side cover with holes	9
10	Vite registro sensore induttivo	-	-	-	TH5408-09	TH5408-09	TH9613-09	TH7610-09	Adjustment screw for inductive sensor	10
11	Vite registro sensore induttivo	-	-	-	TH5408-10	TH7610-09	TH5408-09	TH12516-10	Adjustment screw for inductive sensor	11
12	Magnete	EPP12-13	EPP12-13	FES16-3-9	FES16-3-9	FES16-3-9	FES16-3-9	FES16-3-9	Magnet	12
13	Supporto sensore	-	-	-	SJJ-A01	SJJ-A01	SJJ-A01	SJJ-A01	Sensor holder	13
14	Boccola	SGP-20-09	ZBH-5	SGP-32-09	LP23-62	PQ5047-07	PQ5047-07	TH12516-09	Bush	14
15	Spina di riferimento	SPINA-057 Ø2.5x11.8 DIN6325	SPINA-042 Ø3x16 DIN6325	SPINA-033 Ø4x25 DIN6325	SPINA-013 Ø5x40 DIN6325	SPINA-115 Ø5x36 DIN6325	SPINA-030 Ø6x36 DIN6325	SPINA-058 Ø8x60 DIN6325	Dowel pin	15
16	Spina di riferimento	SPINA-087 Ø2x24 DIN6325	SPINA-204 Ø2x24 DIN6325	SPINA-081 Ø2.5x32 DIN6325	SPINA-094 Ø4x32 DIN6325	SPINA-181 Ø5x50 DIN6325	SPINA-154 Ø5x60 DIN6325	SPINA-206 Ø6x70 DIN6325	Dowel pin	16
17	Sfera	SPINA-180 Ø1.5 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-092 Ø3 DIN5401A	SPINA-092 Ø3 DIN5401A	Ball	17
18	Dado esagonale	-	-	-	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	Nut	18
19	Vite	VITE-419 M2x3 DIN965	VITE-360 M2x4 DIN965	VITE-058 M2.5x5 DIN965	VITE-234 M2.5x6 DIN7991	VITE-234 M2.5x6 DIN7991	VITE-306 M3x8 DIN7991	VITE-305 M4x8 DIN7991	Screw	19
20	Vite	VITE-305 M4x8 DIN7991	VITE-352 M4x10 DIN7991	VITE-290 M5x12 DIN-7991	VITE-290 M5x12 DIN7991	VITE-405 M6x16 DIN7991	VITE-428 M6x25 DIN7991	VITE-339 M10x35 DIN7991	Screw	20
21	Vite	VITE-420 M2.5x14 DIN965	VITE-351 M3x20 DIN7991	VITE-354 M4x25 DIN7991	VITE-354 M4x25 DIN7991	VITE-427 M4x30 DIN7991	VITE-272 M5x40 DIN7991	VITE-421 M6x45 DIN7991	Screw	21
22	Vite senza testa	VITE-432 M2x2.5 DIN913	VITE-432 M2x2.5 DIN913	VITE-229 M3x3 DIN913	VITE-414 M2.5x3 DIN913	VITE-018 M3x4 DIN913	VITE-415 M4x4 DIN913	VITE-273 M4x5 DIN913	Grub screw	22
23	Guarnizione	GUAR-045H Ø1.78x7.66	GUAR-080H Ø1.78x10.82	GUAR-095H Ø1.78x11.89	GUAR-007H Ø1.78x14	GUAR-076H Ø1.78x17.17	GUAR-061H Ø2.62x20.29	GUAR-158H Ø2.62x36.17	O-RING gasket	23
24	Guarnizione	-	GUAR-168 Ø1x9	GUAR-089 Ø1x10	-	GUAR-089 Ø1x10	GUAR-047 Ø1.78x12.42	GUAR-030 Ø1.78x25.12	O-RING gasket	24
25	Guarnizione	GUAR-161 Ø1x1.8	GUAR-130 Ø1x2	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-091 Ø1x4	O-RING gasket	25
26	Guarnizione	GUAR-032H Ø2.62x21.89	GUAR-170H Ø2.62x28.25	GUAR-026P PZ4520	GUAR-182H Ø2.62x48.89	GUAR-191H Ø3.53x69.44	GUAR-195H Ø3.53x88.49	GUAR-187H Ø3.53x117.07	O-RING gasket	26
27	Guarnizione	GUAR-190 Ø1.5x27	GUAR-148 Ø1.78x33.05	GUAR-017 Ø1.78x47.35	GUAR-050 Ø1.78x56.87	GUAR-192 Ø1.78x75.92	GUAR-194 Ø1.78x94.97	GUAR-188 Ø1.78x126.72	O-RING gasket	27
28	Guarnizione	GUAR-091 Ø1x4	GUAR-021 Ø1x5	GUAR-021 Ø1x5	GUAR-171 Ø1x4.5	GUAR-021 Ø1x5	GUAR-085 Ø1x8	GUAR-085 Ø1x8	O-RING gasket	28
29	Molla	TH2725-12	TH3304-12	TH4506-15	TH5408-20	TH7610-16	TH9613-16	TH12516-12	Spring	29
30	Molla	-	-	-	-	TH7610-17	TH9613-17	T12516-13	Spring	30
31	Distanziale NC	TH2725-11	TH3304-11	TH4506-14	TH5408-14	TH7610-15	TH9613-15	TH12516-15	Spacer	31
32	Prolunga corpo	TH2725-09	TH3304-09	TH4506-12	TH5408-11	TH7610-13	TH9613-13	TH12516-11	Body extension	32
33	Spina di riferimento	SPINA-005 Ø2x10 DIN6325	SPINA-022 Ø3x12 DIN6325	SPINA-014 Ø4x16 DIN6325	SPINA-044 Ø5x12 DIN6325	SPINA-072 Ø5x24 DIN6325	SPINA-051 Ø6x24 DIN6325	SPINA-037 Ø6x30 DIN6325	Dowel pin	33
34	Trascinatore per sensore	-	-	-	DH3516-14	DH3516-14	DH3516-14	DH3516-14	Sensor activator	34

Vista esplosa / Exploded view

TH NO



Elenco delle parti / Part list

		TH2725-NO	TH3302-NO TH3304-NO	TH4503-NO TH4506-NO	TH5404-NO TH5408-NO	TH7605-NO TH7610-NO	TH9606-NO TH9613-NO	TH12508-NO TH12516-NO		
1	Corpo	TH2725-01	TH3304-01	TH4506-01	TH5408-01	TH7610-01	TH9613-01	TH12516-01	Gripper housing	1
2	Protezione	TH2725-07	TH3304-07	TH4506-06	TH5408-07	TH7610-02	TH9613-04	TH12516-07	Protection	2
3	Griffa	TH2725-03	TH3304-02	TH4506-02	TH5408-03	TH7610-03	TH9613-03	TH12516-03	Jaw	3
4	Stelo	T2725-04	TH3304-05	TH4506-05	TH5408-04	TH7610-05	TH9613-05	TH12516-04	Piston rod	4
5	Fondello	TH2725-02	TH3304-03	TH4506-03	TH5408-02	TH7610-06	TH9613-02	TH12516-02	Back end plate	5
6	Pistone	TH2725-06	TH3304-04	TH4506-04	TH5408-06	TH7610-04	TH9613-04	TH12516-06	Piston	6
7	Leva	TH2725-05	TH3302-01 TH3304-06	TH4503-01 TH4506-07	TH5404-05 TH5408-05	TH7605-01 TH7610-07	TH9606-01 TH9613-07	TH12508-05 TH12516-05	Lever	7
8	Coperchio laterale	TH2725-08	TH3304-08	TH4506-08	TH5408-08	TH7610-08	TH9613-08	TH12516-08	Side cover	8
9	Coperchio laterale forato	TH2725-08F	TH3304-08F	TH4506-08F	TH5408-08F	TH7610-08F	TH9613-08F	TH12516-08F	Side cover with holes	9
10	Vite registro sensore induttivo	-	-	-	TH5408-09	TH5408-09	TH9613-09	TH7610-09	Adjustment screw for inductive sensor	10
11	Vite registro sensore induttivo	-	-	-	TH5408-10	TH7610-09	TH5408-09	TH12516-10	Adjustment screw for inductive sensor	11
12	Magnete	EPP12-13	EPP12-13	FES16-3-9	FES16-3-9	FES16-3-9	FES16-3-9	FES16-3-9	Magnet	12
13	Supporto sensore	-	-	-	SJJ-A01	SJJ-A01	SJJ-A01	SJJ-A01	Sensor holder	13
14	Boccola	SGP-20-09	ZBH-5	SGP-32-09	LP23-62	PQ5047-07	PQ5047-07	TH12516-09	Bush	14
15	Spina di riferimento	SPINA-057 Ø2.5x11.8 DIN6325	SPINA-042 Ø3x16 DIN6325	SPINA-033 Ø4x25 DIN6325	SPINA-013 Ø5x40 DIN6325	SPINA-115 Ø5x36 DIN6325	SPINA-030 Ø6x36 DIN6325)	SPINA-058 Ø8x60 DIN6325	Dowel pin	15
16	Spina di riferimento	SPINA-005 Ø2x10 DIN6325	SPINA-001 Ø2x14 DIN6325	SPINA-069 Ø2.5x18 DIN6325	SPINA-014 Ø4x16 DIN6325	SPINA-035 Ø5x30 DIN6325	SPINA-114 Ø5x32 DIN6325	SPINA-032 Ø6x40 DIN6325	Dowel pin	16
17	Sfera	SPINA-180 Ø1.5 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-084 Ø2 DIN5401A	SPINA-09 Ø3 DIN5401A	SPINA-092 Ø3 DIN5401A	Ball	17
18	Dado esagonale	-	-	-	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	Nut	18
19	Vite	VITE-419 M2x3 DIN965	VITE-360 M2x4 DIN965	VITE-058 M2.5x5 DIN965	VITE-234 M2.5x6 DIN7991	VITE-234 M2.5x6 DIN7991	VITE-306 M3x8 DIN7991	VITE-305 M4x8 DIN7991	Screw	19
20	Vite	VITE-286 M4x12 DIN912	VITE-189 M4x14 DIN7991	VITE-425 M5x20 DIN7991	VITE-015 M5x12 DIN912	VITE-428 M6x25 DIN7991	VITE-431 M6x35 DIN7991	VITE-422 M10x45 DIN912	Screw	20
21	Vite	VITE-420 M2.5x14 DIN965	VITE-351 M3x20 DIN7991	VITE-354 M4x25 DIN7991	VITE-354 M4x25 DIN7991	VITE-427 M4x30 DIN7991	VITE-272 M5x40 DIN7991	VITE-421 (M6x45 DIN7991)	Screw	21
22	Vite senza testa	VITE-432 M2x2.5 DIN913	VITE-432 M2x2.5 DIN913	VITE-229 M3x3 DIN913	VITE-414 M2.5x3 DIN913	VITE-018 M3x4 DIN913	VITE-415 M4x4 DIN913	VITE-273 M4x5 DIN913	Grub screw	22
23	Guarnizione	GUAR-045H Ø1.78x7.66	GUAR-080H Ø1.78x10.82	GUAR-095H Ø1.78x11.89	GUAR-007H Ø1.78x14	GUAR-076H Ø1.78x17.17	GUAR-061H Ø2.62x20.29	GUAR-158H Ø2.62x36.17	O-RING gasket	23
24	Guarnizione	-	GUAR-168 Ø1x9	GUAR-089 Ø1x10	-	GUAR-089 Ø1x10	GUAR-047 Ø1.78x12.42	GUAR-030 Ø1.78x25.12	O-RING gasket	24
25	Guarnizione	GUAR-161 Ø1x1.8	GUAR-130 Ø1x2	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-091 Ø1x4	O-RING gasket	25
26	Guarnizione	GUAR-032H Ø2.62x21.89	GUAR-170H Ø2.62x28.25	GUAR-026P PZ4520	GUAR-182H Ø2.62x48.89	GUAR-191H Ø3.53x69.44	GUAR-195H Ø3.53x88.49	GUAR-187H Ø3.53x117.07	O-RING gasket	26
27	Guarnizione	GUAR-190 Ø1.5x27	GUAR-148 Ø1.78x33.05	GUAR-017 Ø1.78x47.35	GUAR-050 Ø1.78x56.87	GUAR-192 Ø1.78x75.92	GUAR-194 Ø1.78x94.97	GUAR-188 Ø1.78x126.72	O-RING gasket	27
28	Guarnizione	GUAR-091 Ø1x4	GUAR-021 Ø1x5	GUAR-021 Ø1x5	GUAR-171 Ø1x4.5	GUAR-021 Ø1x5	GUAR-085 Ø1x8	GUAR-085 Ø1x8	O-RING gasket	28
29	Molla	TH2725-12	TH3304-12	TH4506-15	TH5408-20	TH7610-16	TH9613-16	TH12516-12	Spring	29
30	Molla	-	-	-	-	TH7610-17	TH9613-17	T12516-13	Spring	30
31	Distanziale NO	TH2725-13	TH3304-13	TH4506-16	TH5408-113	TH7610-18	TH9613-118	TH12516-16	Spacer	31
32	Prolunga corpo	TH2725-09	TH3304-09	TH4506-12	TH5408-11	TH7610-13	TH9613-13	TH12516-11	Body extension	32
33	Spina di riferimento	SPINA-005 Ø2x10 DIN6325	SPINA-022 Ø3x12 DIN6325	SPINA-014 Ø4x16 DIN6325	SPINA-044 Ø5x12 DIN6325	SPINA-072 Ø5x24 DIN6325	SPINA-051 Ø6x24 DIN6325	SPINA-037 Ø6x30 DIN6325	Dowel pin	33
34	Trascinatorio per sensore	-	-	-	DH3516-14	DH3516-14	DH3516-14	DH3516-14	Sensor activator	34