

Pince pneumatique auto-centreuse à 3 mâchoires (série TH)

- Double action avec ressorts en option (normalement fermé ou normalement ouvert) (3).
- Course longue ou courte (1).
- Possibilité de fixation avant avec vis renforcées (2).
- Transmission force à haute efficacité (1).
- Capteurs magnétiques ou inductifs en option.
- Lebensmittelfett 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.

TH33...



TH45...



TH54...



TH76...



TH27...



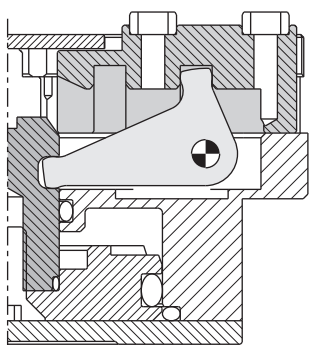
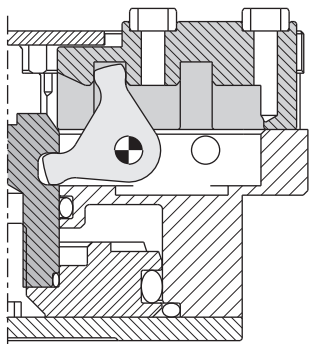
TH125...



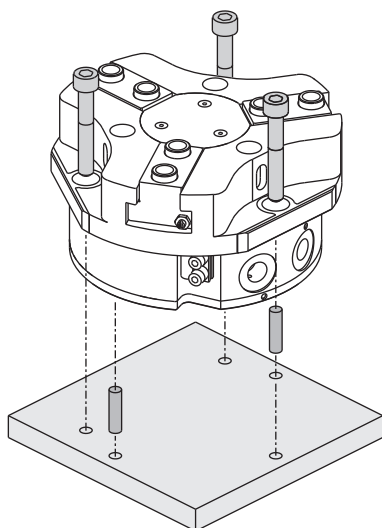
TH96...



(1)

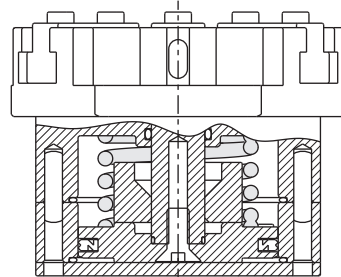


(2)

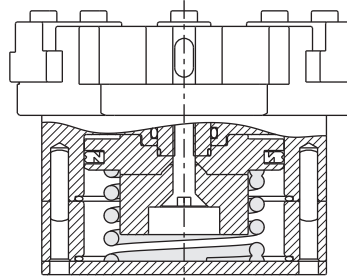


(3)

TH...-NC



TH...-NO



Poussoir en option

Cet accessoire peut être installé sur les pinces TH pour maintenir la charge utile durant le relâchement de la pince via force de poussée F .

Exemple, durant la charge du dispositif de serrage d'un équipement d'usinage.

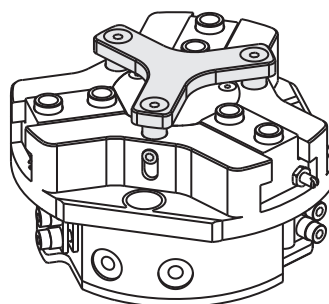
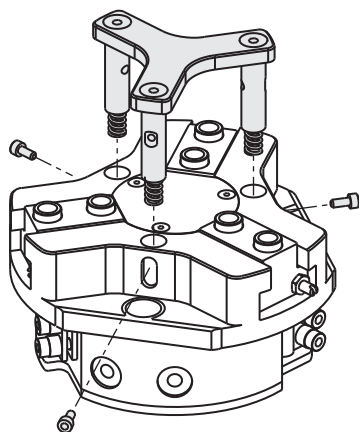
Fourni démonté, codes dans le tableau ci-dessous.

Optional pusher

This accessory can be installed in the TH grippers, to hold the payload during the gripper release, by a pushing force F .

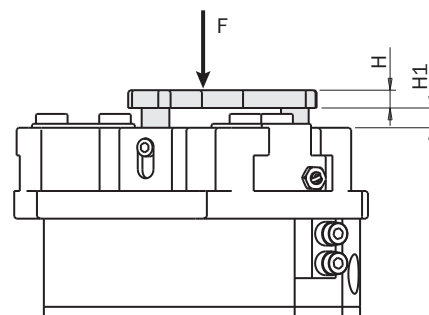
As an example, when the chuck of a machining equipment is loaded.

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



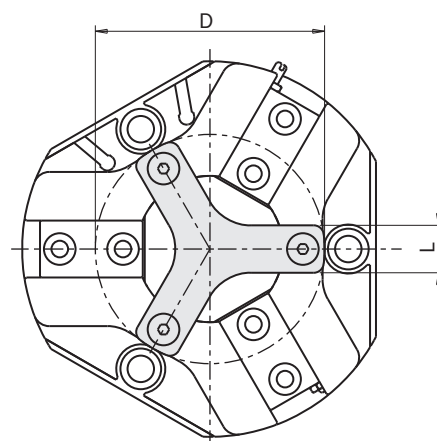
Force Force

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



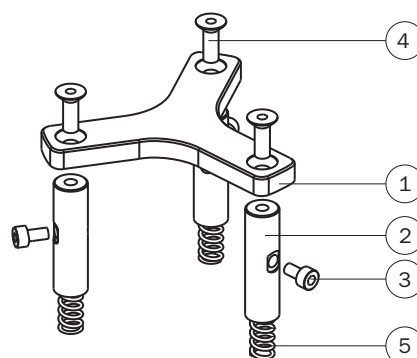
Dimensions (mm) Dimensions (mm)

	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



Liste des pièces 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



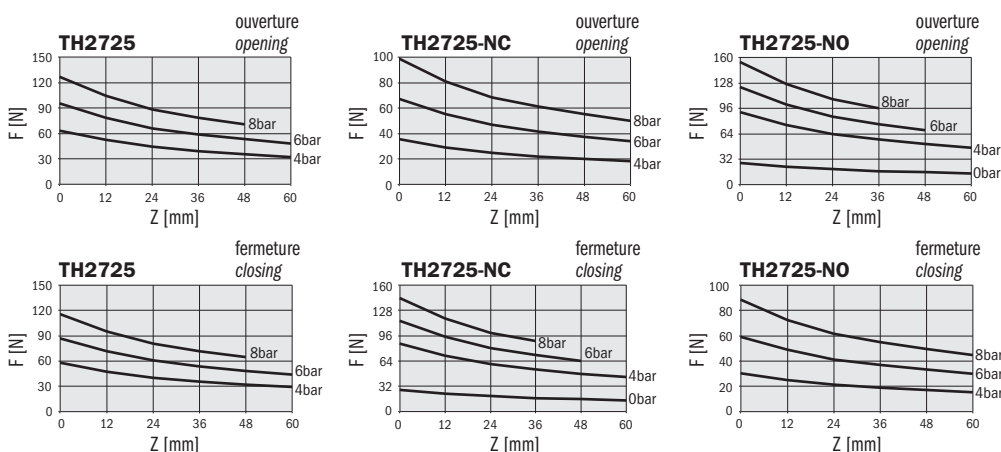
	TH2725	TH2725-NC	TH2725-NO
Fluide Medium	Air comprimé selon ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]		
Pression d'utilisation Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Température d'utilisation Operating temperature range	5 ÷ 100°C.		
Force de serrage par mâchoire en ouverture à 6 bar Opening gripping force on each jaw at 6 bar	95N	65 ÷ 70N	121 ÷ 125N
Force de serrage totale en ouverture à 6 bar Opening total gripping force at 6 bar	285N	195 ÷ 210N	363 ÷ 375N
Force de serrage par mâchoire en fermeture à 6 bar Closing gripping force on each jaw at 6 bar	87N	112 ÷ 117N	57 ÷ 61N
Force de serrage par mâchoire en fermeture à 6 bar Closing total gripping force at 6 bar	261N	336 ÷ 351N	171 ÷ 183N
Course Stroke (±0.2 mm)	3x2.5mm	3x2.5mm	3x2.5mm
Fréquence de fonctionnement maximum Maximum working frequency	3Hz	3Hz	3Hz
Consommation d'air par cycle Cycle air consumption	3cm ³	6cm ³	6cm ³
Temps minimum de fermeture / ouverture Closing / opening minimum time	0.02s / 0.02s	0.01s / 0.02s	0.03s / 0.01s
Répétabilité Repetition accuracy	0.02mm	0.02mm	0.02mm
Poids Weight	117g	140g	139g

Force de serrage

Les graphiques indiquent la force de serrage sur chaque mâchoire en fonction de la pression et de la longueur du bras de levier Z.

Gripping force

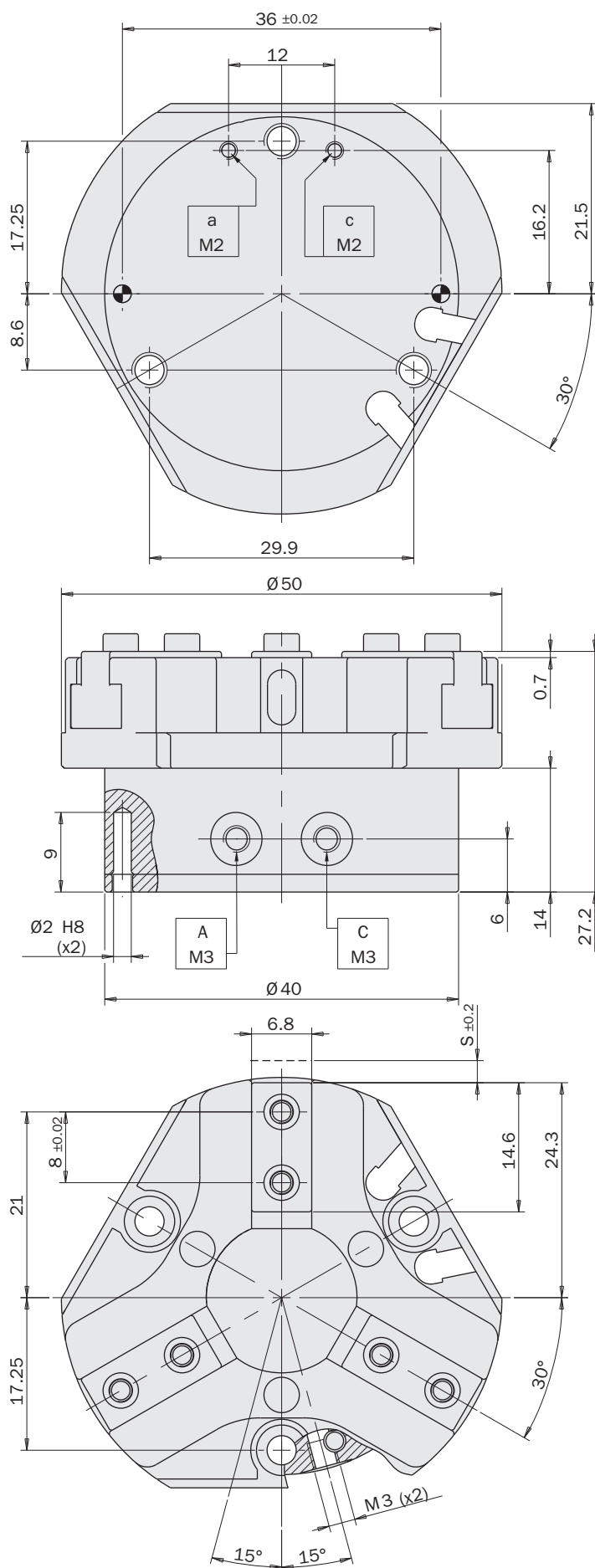
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



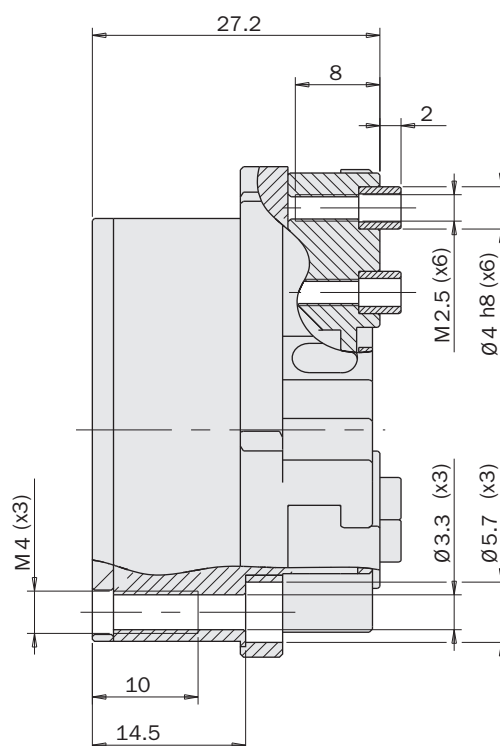
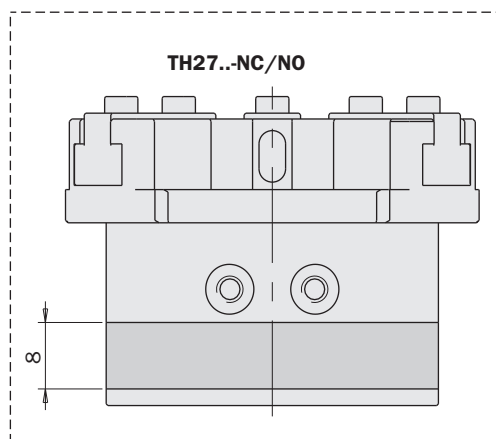
La force indiquée dans ces graphiques se réfère à une mâchoire. La force totale est le triple de cette valeur.

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

Dimensions (mm)
Dimensions (mm)



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



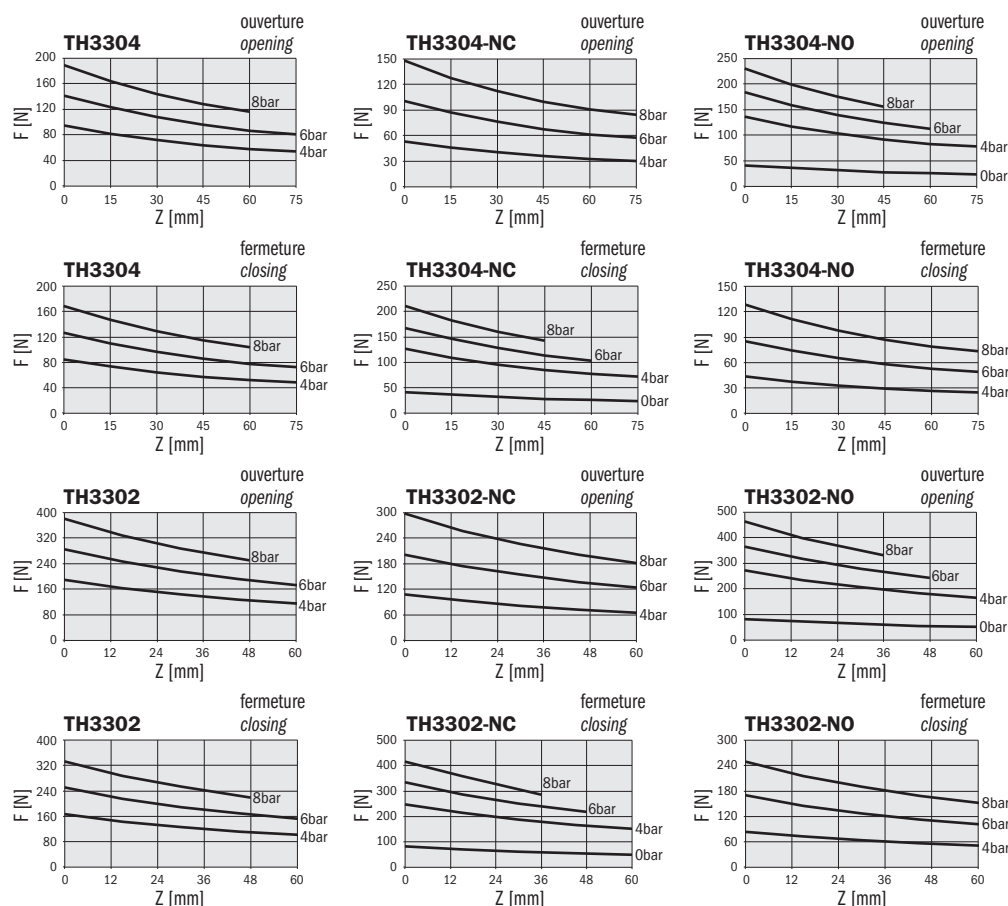
	TH3304	TH3304-NC	TH3304-NO	TH3302	TH3302-NC	TH3302-NO
Fluide Medium	Air comprimé selon ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pression d'utilisation Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Température d'utilisation Operating temperature range	5 ÷ 100°C.					
Force de serrage par mâchoire en ouverture à 6 bar Opening gripping force on each jaw at 6 bar	142N	97 ÷ 106N	179 ÷ 188N	285N	192 ÷ 210N	358 ÷ 375N
Force de serrage totale en ouverture à 6 bar Opening total gripping force at 6 bar	426N	291 ÷ 318N	537 ÷ 564N	855N	576 ÷ 630N	1074 ÷ 1125N
Force de serrage par mâchoire en fermeture à 6 bar Closing gripping force on each jaw at 6 bar	127N	164 ÷ 172N	81 ÷ 90N	250N	326 ÷ 344N	161 ÷ 179N
Force de serrage par mâchoire en fermeture à 6 bar Closing total gripping force at 6 bar	381N	492 ÷ 516N	243 ÷ 270N	750N	978 ÷ 1032N	483 ÷ 537N
Course Stroke (±0.2 mm)	3x4mm	3x4mm	3x4mm	3x2mm	3x2mm	3x2mm
Fréquence de fonctionnement maximum Maximum working frequency	3Hz	3Hz	3Hz	3Hz	3Hz	3Hz
Consommation d'air par cycle Cycle air consumption	8cm ³	13cm ³	13cm ³	8cm ³	13cm ³	13cm ³
Temps minimum de fermeture / ouverture 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
Répétabilité Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Poids Weight	237g	293g	285g	240g	296g	288g

Force de serrage

Les graphiques indiquent la force (F) de serrage de la pince avec mâchoire en fonction de la pression et du bras de levier Z.

Gripping force

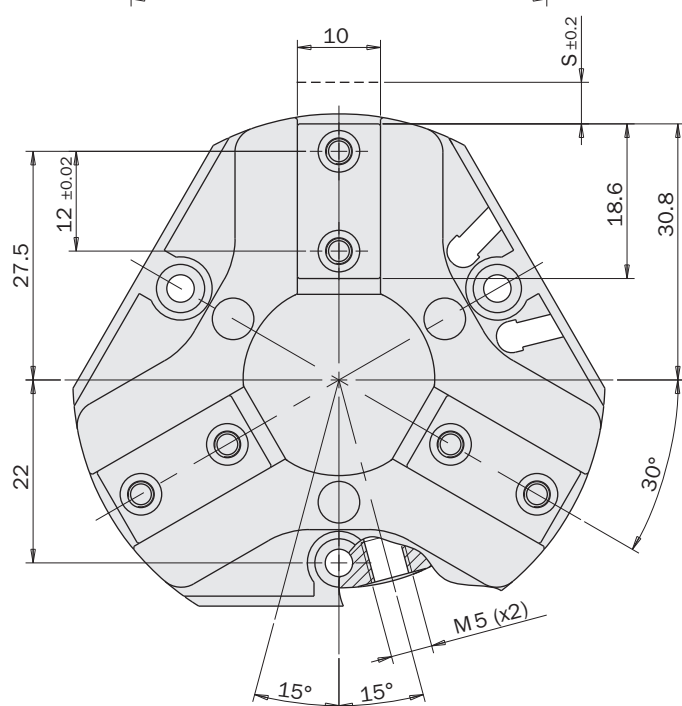
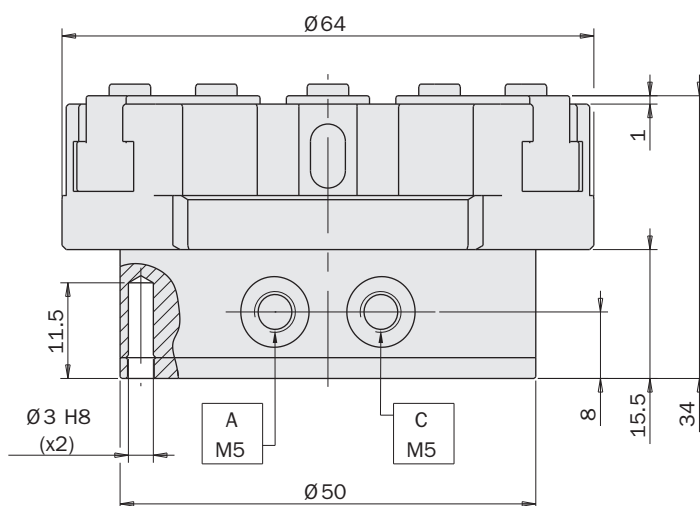
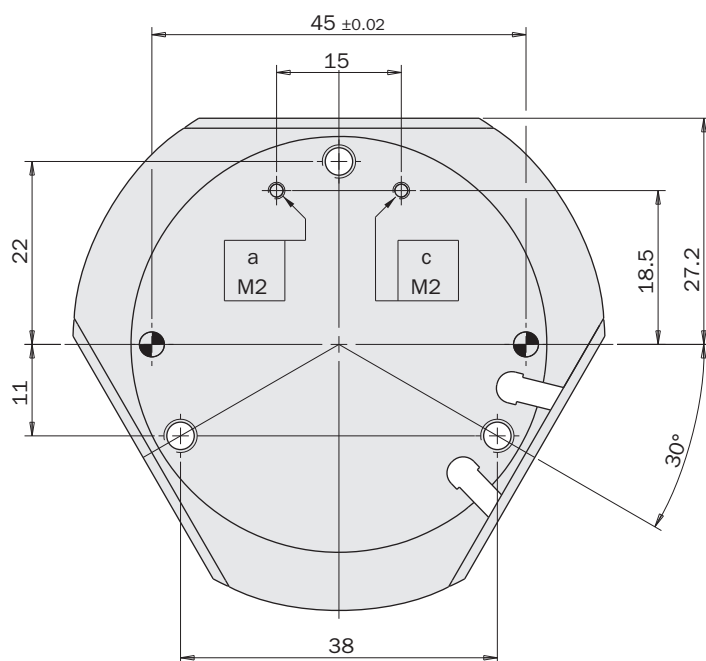
The graphs show the gripping force (F) on each jaw, as a function of the operating pressure and the gripping tool length Z.



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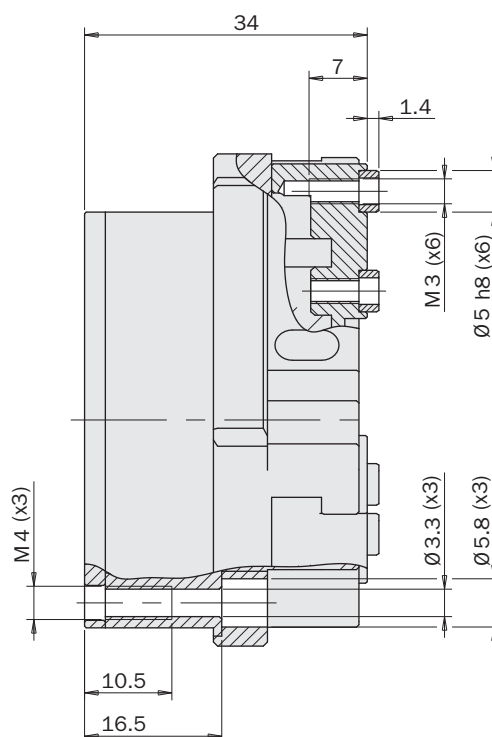
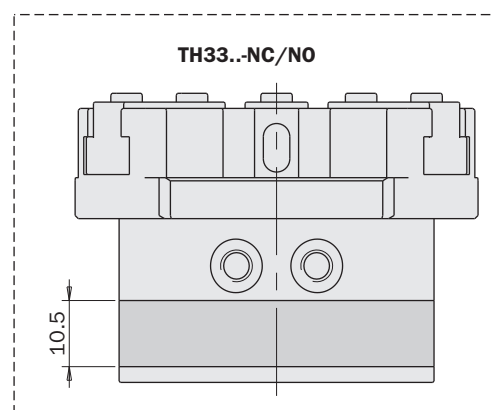
The force shown in these graphs refers to one jaw. The total force is triple.

Dimensions (mm)
Dimensions (mm)



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

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



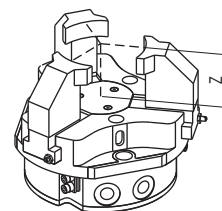
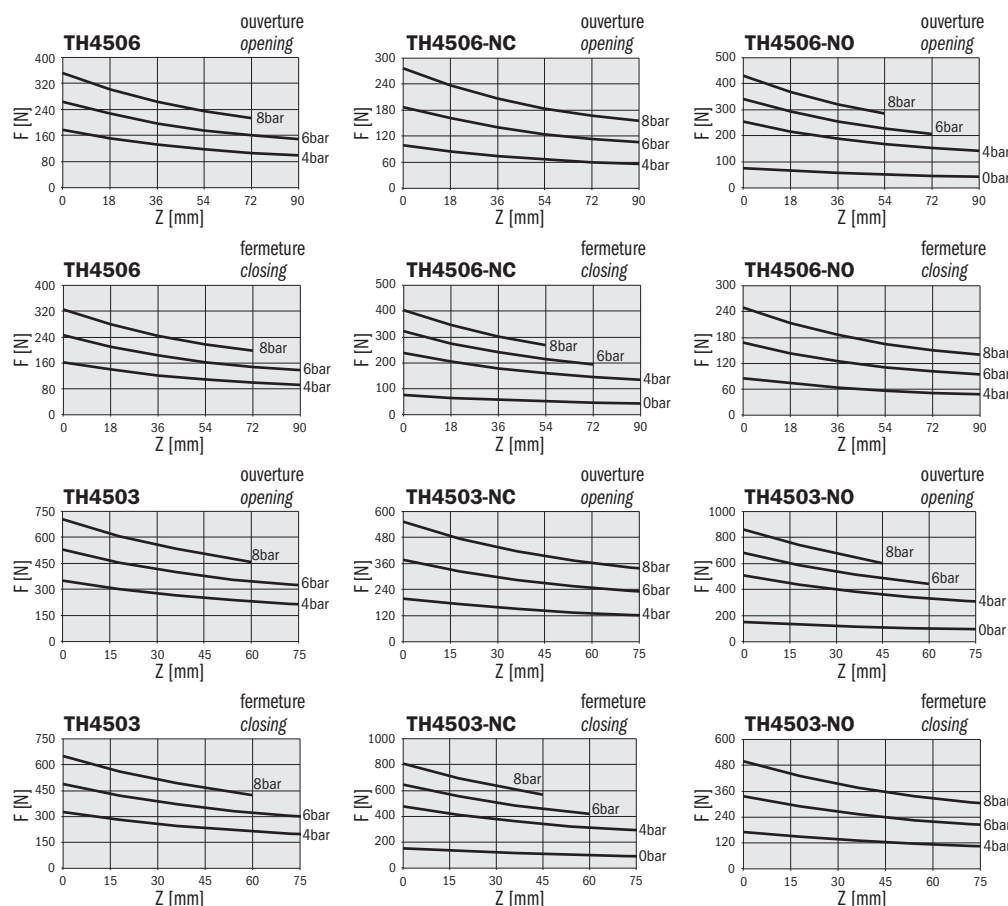
	TH4506	TH4506-NC	TH4506-NO	TH4503	TH4503-NC	TH4503-NO
Fluide Medium	Air comprimé selon ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pression d'utilisation Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Température d'utilisation Operating temperature range	5 ÷ 100°C.					
Force de serrage par mâchoire en ouverture à 6 bar Opening gripping force on each jaw at 6 bar	265N	173 ÷ 202N	328 ÷ 356N	530N	346 ÷ 403N	653 ÷ 710N
Force de serrage totale en ouverture à 6 bar Opening total gripping force at 6 bar	795N	519 ÷ 606N	984 ÷ 1068N	1590N	1038 ÷ 1209N	1959 ÷ 2130N
Force de serrage par mâchoire en fermeture à 6 bar Closing gripping force on each jaw at 6 bar	245N	309 ÷ 337N	155 ÷ 184N	490N	615 ÷ 673N	308 ÷ 366N
Force de serrage par mâchoire en fermeture à 6 bar Closing total gripping force at 6 bar	735N	927 ÷ 1011N	465 ÷ 552N	1470N	1845 ÷ 2019N	924 ÷ 1098N
Course Stroke (±0.2 mm)	3x6mm	3x6mm	3x6mm	3x3mm	3x3mm	3x3mm
Fréquence de fonctionnement maximum Maximum working frequency	2Hz	2Hz	2Hz	2Hz	2Hz	2Hz
Consommation d'air par cycle Cycle air consumption	22cm³	37cm³	37cm³	22cm³	37cm³	37cm³
Temps minimum de fermeture / ouverture 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
Répétabilité Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Poids Weight	430g	540g	530g	440g	550g	530g

Force de serrage

Les graphiques indiquent la force de serrage sur chaque mâchoire en fonction de la pression et de la longueur du bras de levier Z.

Gripping force

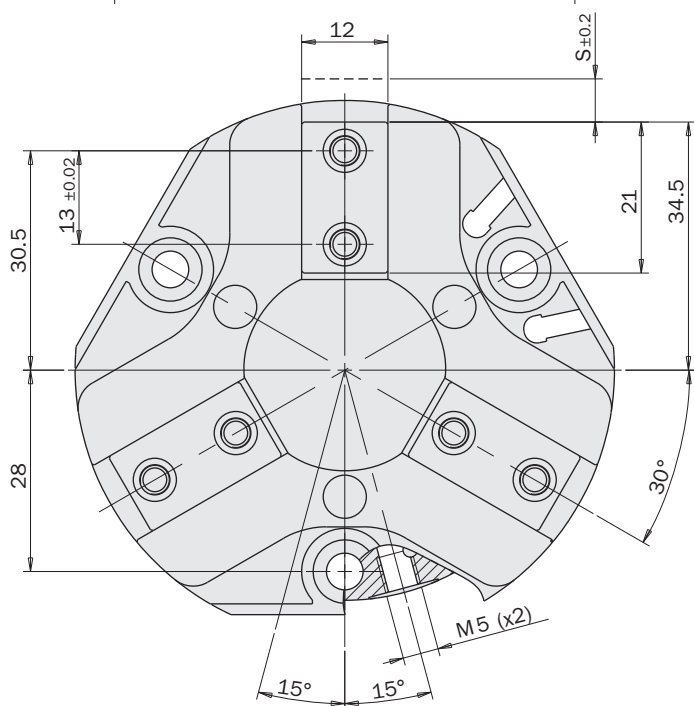
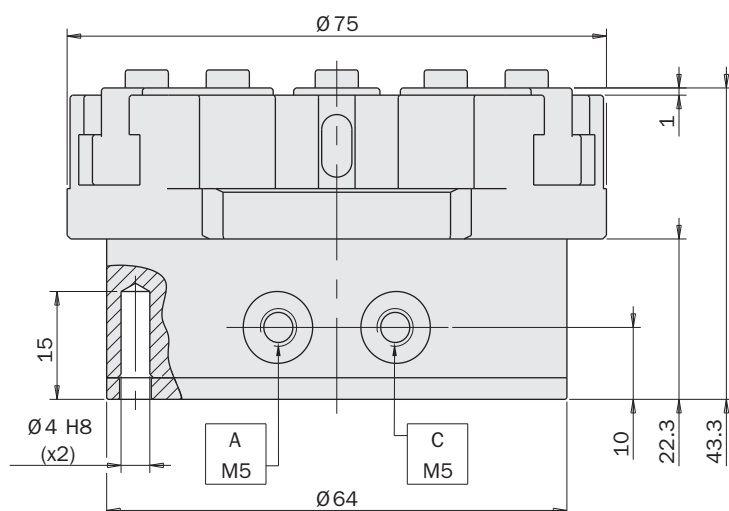
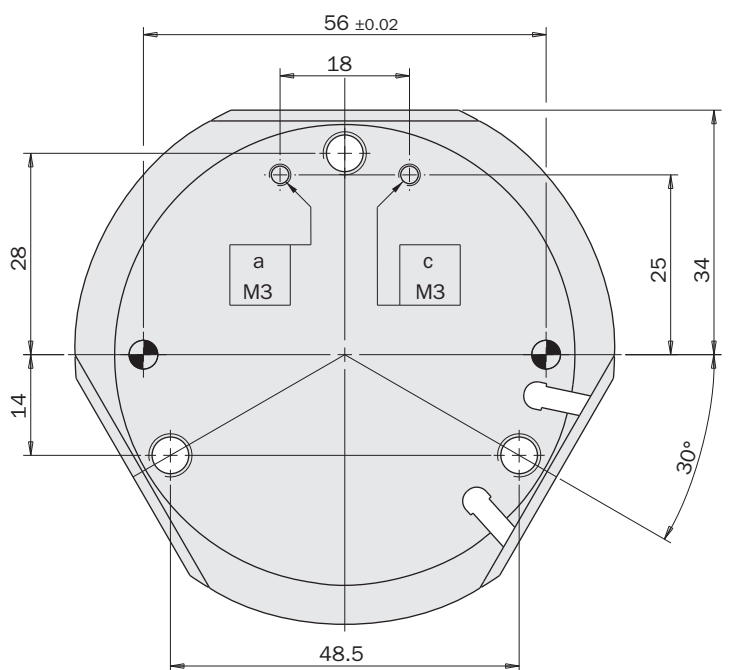
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



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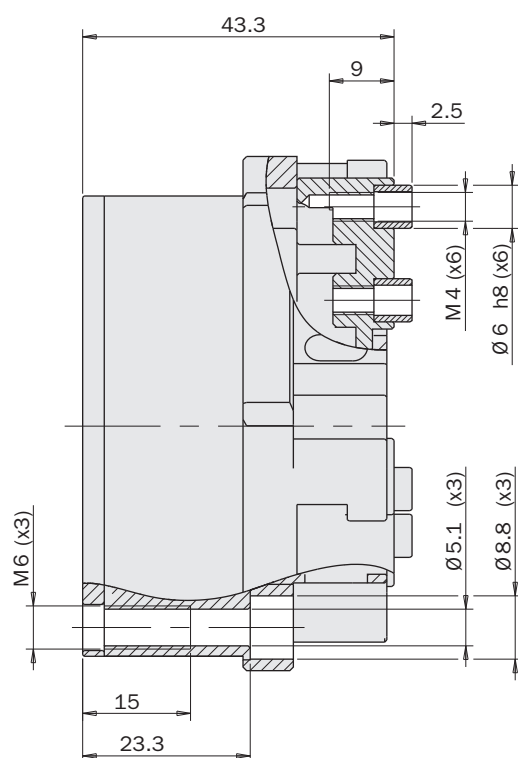
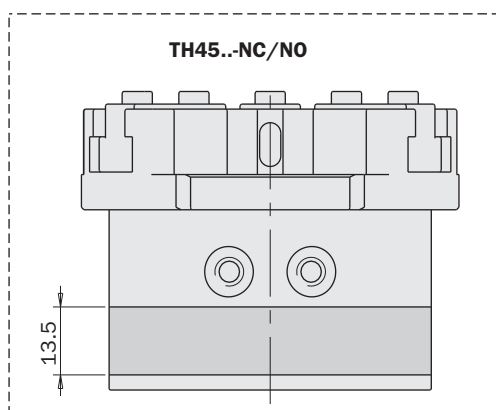
The force shown in these graphs refers to one jaw. The total force is triple.

Dimensions (mm)
Dimensions (mm)



	TH4506	TH4506-NC	TH4506-N0
S	3x6mm	3x6mm	3x6mm

	TH4503	TH4503-NC	TH4503-N0
S	3x3mm	3x3mm	3x3mm



Unités Rotatives
Rotary Units

Changeur d'Outil
Quick Changer

Profilés et Brides
Profiles and Brackets

Pinces
Grippers

Vérins Linéaires
Linear Actuators

Suspensions
Suspensions

Pinces Coupantes
Nippers

Kit-Robot
Robot Kit

Options
Options

Capteurs
Sensors

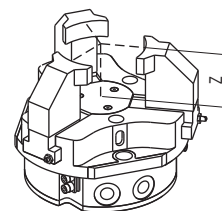
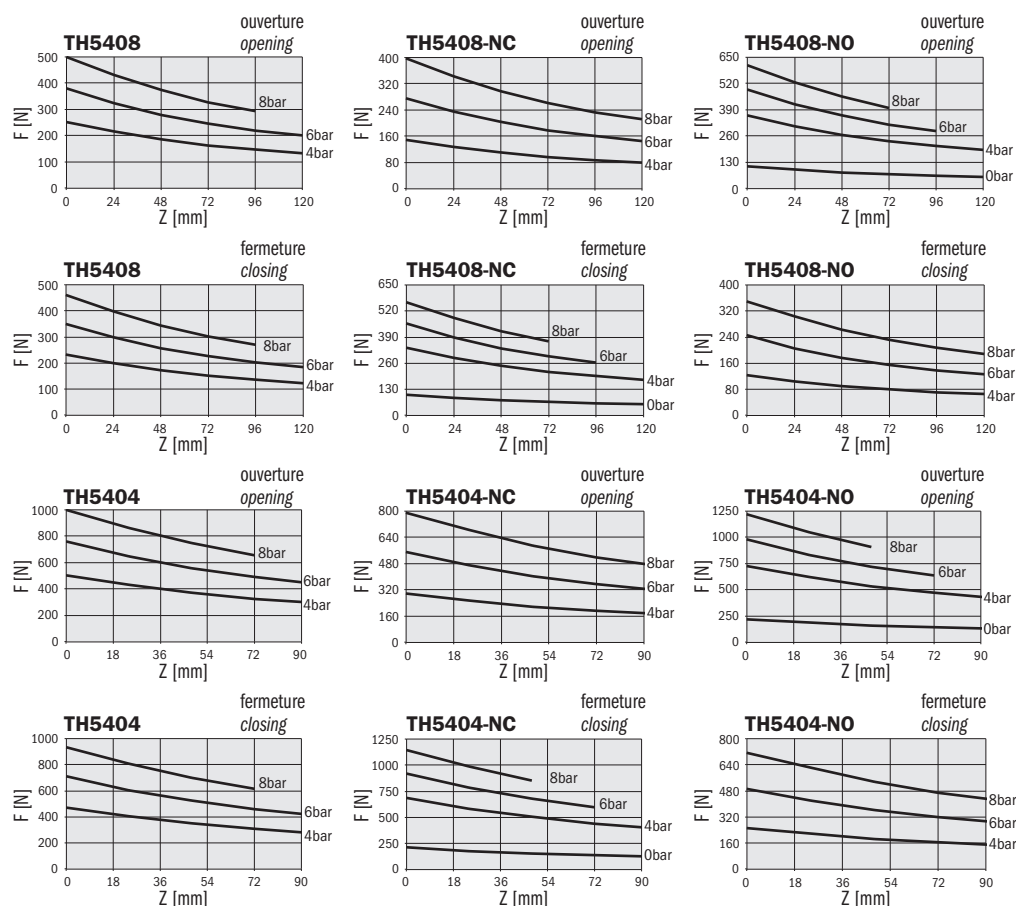
	TH5408	TH5408-NC	TH5408-NO	TH5404	TH5404-NC	TH5404-NO
Fluide Medium	Air comprimé selon ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pression d'utilisation Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Température d'utilisation Operating temperature range	5 ÷ 100°C.					
Force de serrage par mâchoire en ouverture à 6 bar Opening gripping force on each jaw at 6 bar	380N	252 ÷ 299N	466 ÷ 514N	760N	504 ÷ 597N	931 ÷ 1029N
Force de serrage totale en ouverture à 6 bar Opening total gripping force at 6 bar	1140N	756 ÷ 897N	1398 ÷ 1542N	2280N	1512 ÷ 1791N	2793 ÷ 3087N
Force de serrage par mâchoire en fermeture à 6 bar Closing gripping force on each jaw at 6 bar	350N	436 ÷ 483N	220 ÷ 269N	710N	872 ÷ 966N	441 ÷ 538N
Force de serrage par mâchoire en fermeture à 6 bar Closing total gripping force at 6 bar	1050N	1308 ÷ 1449N	660 ÷ 807N	2130N	2616 ÷ 2898N	1323 ÷ 1614N
Course Stroke (±0.2 mm)	3x8mm	3x8mm	3x8mm	3x4mm	3x4mm	3x4mm
Fréquence de fonctionnement maximum Maximum working frequency	2Hz	2Hz	2Hz	2Hz	2Hz	2Hz
Consommation d'air par cycle Cycle air consumption	42cm³	67cm³	67cm³	42cm³	67cm³	67cm³
Temps minimum de fermeture / ouverture 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
Répétabilité Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Poids Weight	760g	930g	920g	770g	940g	930g

Force de serrage

Les graphiques indiquent la force de serrage sur chaque mâchoire en fonction de la pression et de la longueur du bras de levier Z.

Gripping force

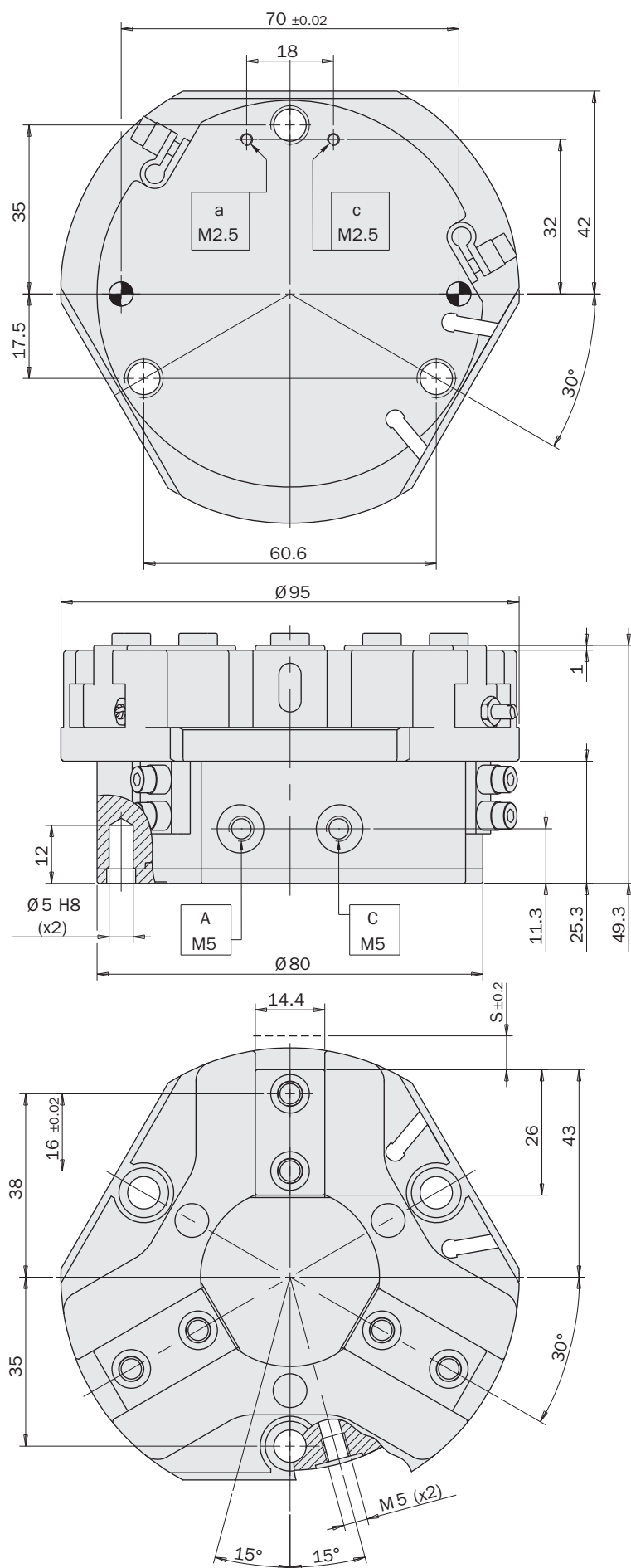
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The force shown in these graphs refers to one jaw. The total force is triple.

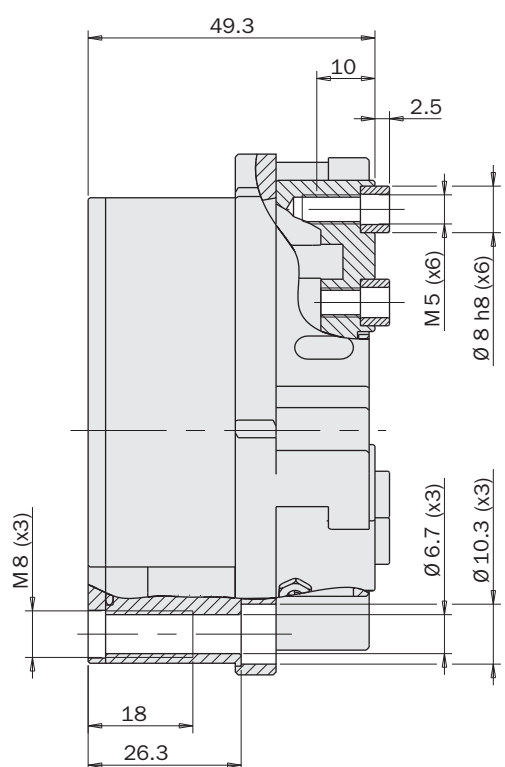
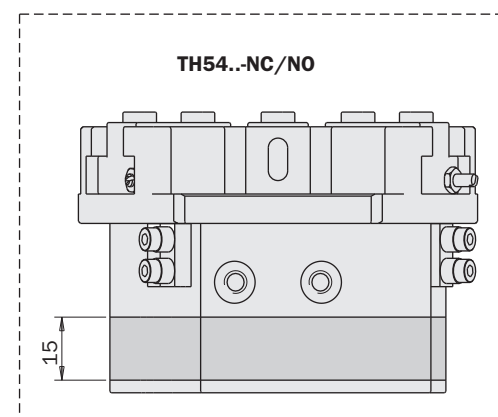
Dimensions (mm)
Dimensions (mm)



FIRST ANGLE
PROJECTION

	TH5408	TH5408-NC	TH5408-N0
S	3x8mm	3x8mm	3x8mm

	TH5404	TH5404-NC	TH5404-N0
S	3x4mm	3x4mm	3x4mm



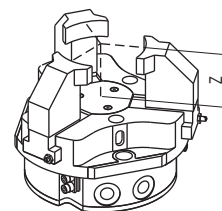
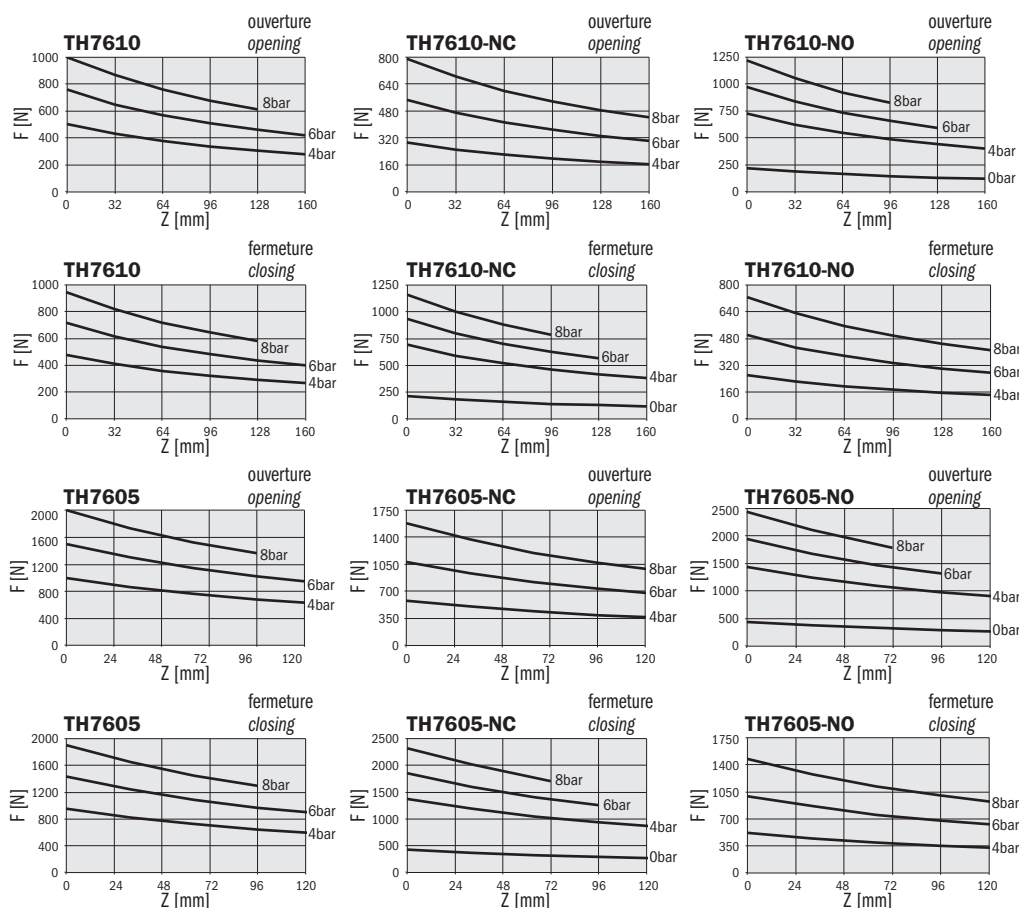
	TH7610	TH7610-NC	TH7610-NO	TH7605	TH7605-NC	TH7605-NO
Fluide Medium	Air comprimé selon ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pression d'utilisation Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Température d'utilisation Operating temperature range	5 ÷ 100°C.					
Force de serrage par mâchoire en ouverture à 6 bar Opening gripping force on each jaw at 6 bar	760N	515 ÷ 577N	954 ÷ 1000N	1500N	1024 ÷ 1148N	1896 ÷ 1989N
Force de serrage totale en ouverture à 6 bar Opening total gripping force at 6 bar	2280N	1545 ÷ 1731N	2862 ÷ 3000N	4500N	3072 ÷ 3444N	5688 ÷ 5967N
Force de serrage par mâchoire en fermeture à 6 bar Closing gripping force on each jaw at 6 bar	720N	890 ÷ 962N	477 ÷ 524N	1430N	1789 ÷ 1913N	948 ÷ 1041N
Force de serrage par mâchoire en fermeture à 6 bar Closing total gripping force at 6 bar	2160N	2670 ÷ 2886N	1431 ÷ 1572N	4290N	5367 ÷ 5739N	2844 ÷ 3123N
Course Stroke (±0.2 mm)	3x10mm	3x10mm	3x10mm	3x5mm	3x5mm	3x5mm
Fréquence de fonctionnement maximum Maximum working frequency	1Hz	1Hz	1Hz	1Hz	1Hz	1Hz
Consommation d'air par cycle Cycle air consumption	106cm³	174cm³	174cm³	106cm³	174cm³	174cm³
Temps minimum de fermeture / ouverture 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
Répétabilité Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Poids Weight	1420g	1870g	1840g	1430g	1880g	1850g

Force de serrage

Les graphiques indiquent la force de serrage sur chaque mâchoire en fonction de la pression et de la longueur du bras de levier Z.

Gripping force

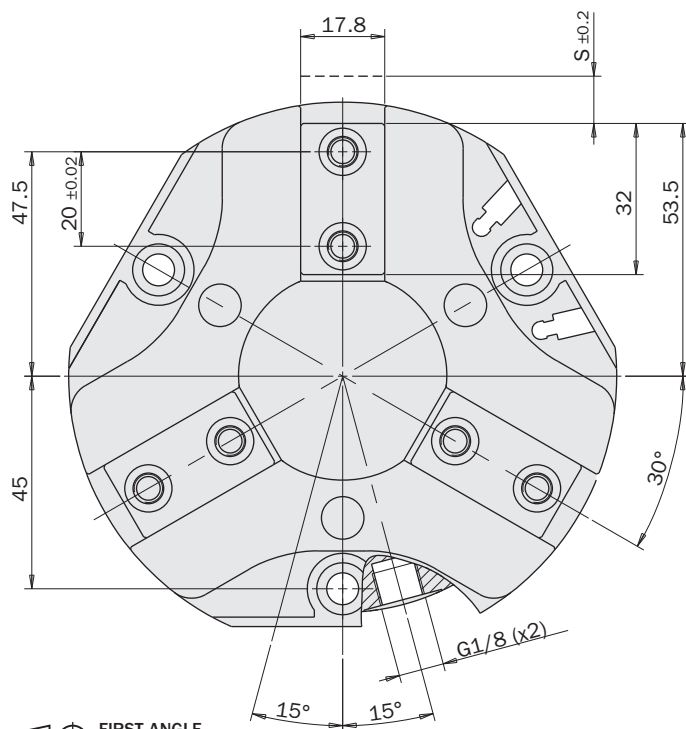
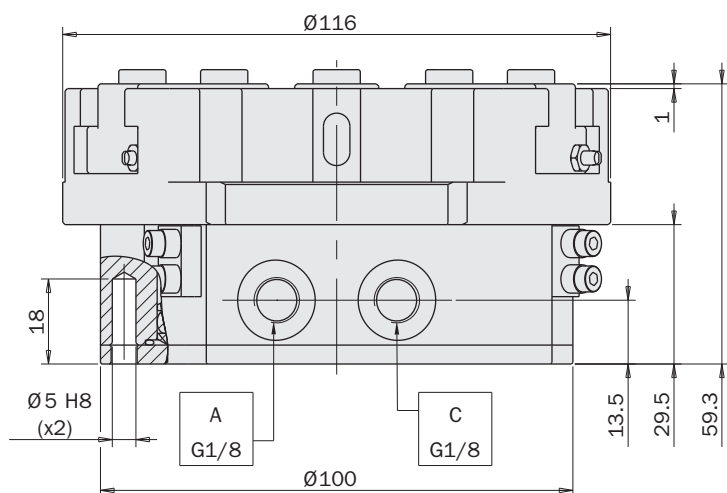
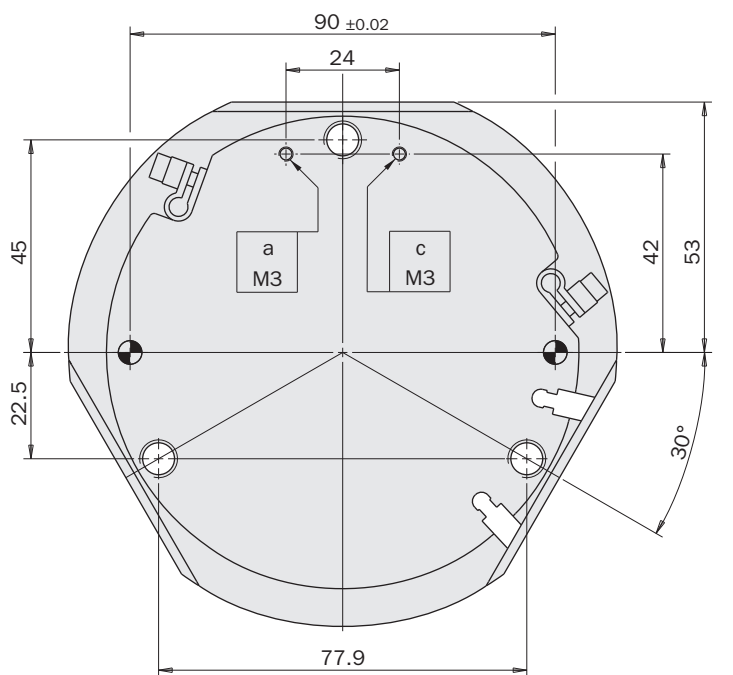
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



La force indiquée dans ces graphiques se réfère à une mâchoire. La force totale est le triple de cette valeur.

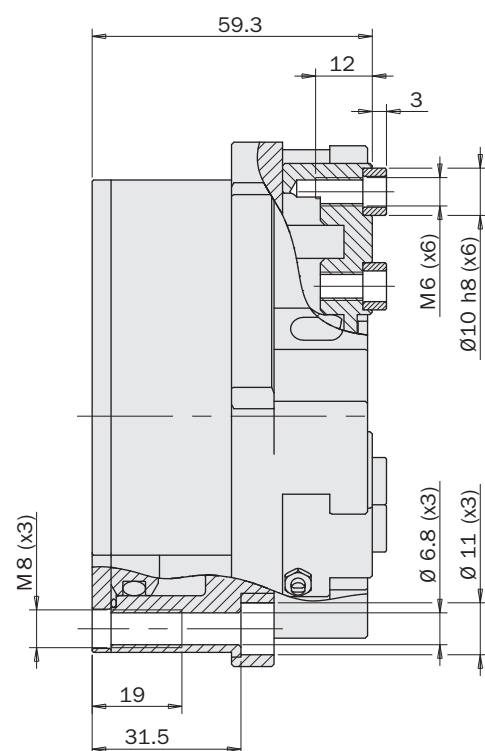
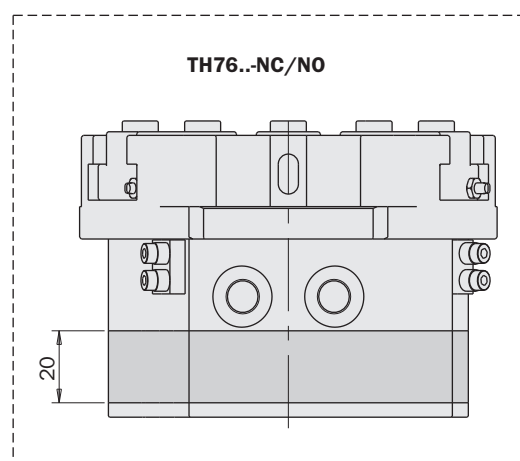
The force shown in these graphs refers to one jaw. The total force is triple.

Dimensions (mm)
Dimensions (mm)



	TH7610	TH7610-NC	TH7610-N0
S	3x10mm	3x10mm	3x10mm

	TH7605	TH7605-NC	TH7605-N0
S	3x5mm	3x5mm	3x5mm



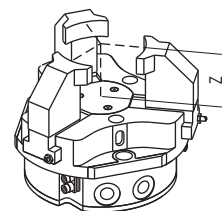
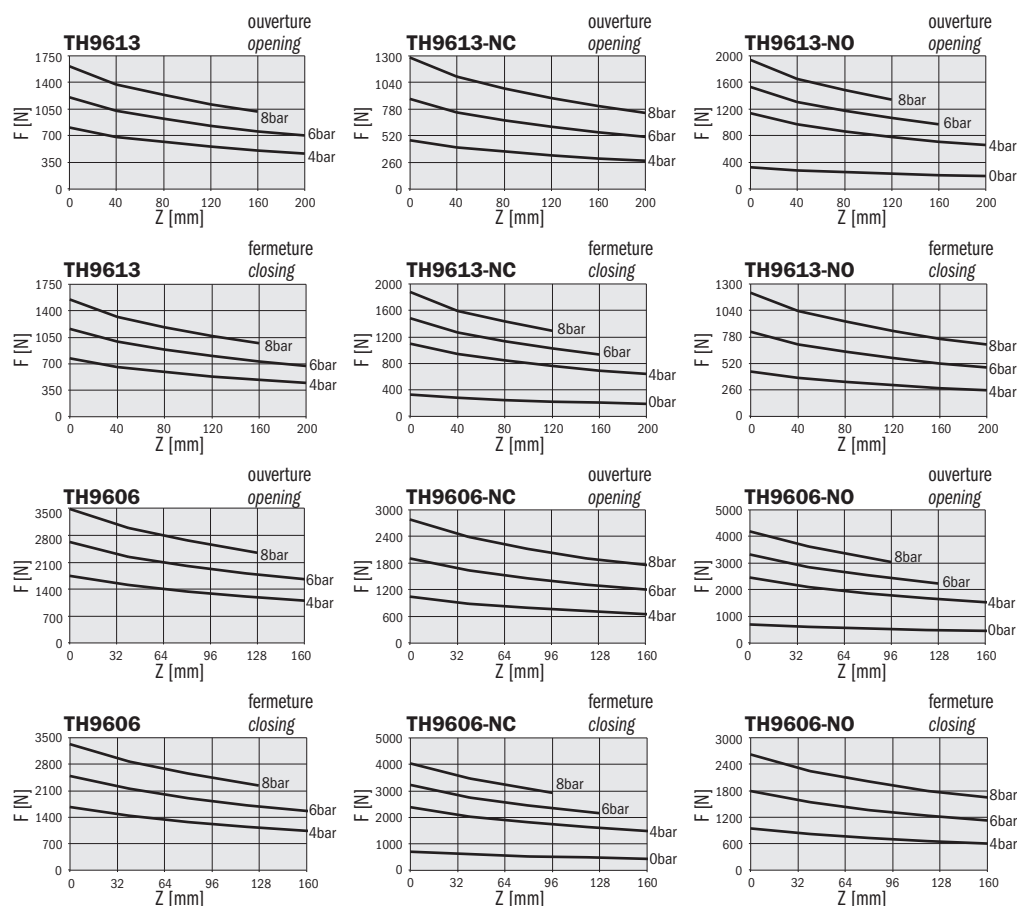
	TH9613	TH9613-NC	TH9613-NO	TH9606	TH9606-NC	TH9606-NO
Fluide Medium	Air comprimé selon ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pression d'utilisation Operating pressure range	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar	1.5 ÷ 8bar	3.5 ÷ 8bar	3.5 ÷ 8bar
Température d'utilisation Operating temperature range	5 ÷ 100°C.					
Force de serrage par mâchoire en ouverture à 6 bar Opening gripping force on each jaw at 6 bar	1210N	821 ÷ 946N	1485 ÷ 1594N	2620N	1779 ÷ 2048N	3216 ÷ 3451N
Force de serrage totale en ouverture à 6 bar Opening total gripping force at 6 bar	3630N	2463 ÷ 2838N	4455 ÷ 4782N	7860N	5337 ÷ 6144N	9648 ÷ 10353N
Force de serrage par mâchoire en fermeture à 6 bar Closing gripping force on each jaw at 6 bar	1160N	1422 ÷ 1564N	774 ÷ 883N	2500N	3079 ÷ 3348N	1675 ÷ 1911N
Force de serrage par mâchoire en fermeture à 6 bar Closing total gripping force at 6 bar	3480N	4266 ÷ 4638N	2322 ÷ 2649N	7500N	9327 ÷ 10044N	5025 ÷ 5733N
Course Stroke (±0.2 mm)	3x13mm	3x13mm	3x13mm	3x6mm	3x6mm	3x6mm
Fréquence de fonctionnement maximum Maximum working frequency	1Hz	1Hz	1Hz	1Hz	1Hz	1Hz
Consommation d'air par cycle Cycle air consumption	221cm³	335cm³	335cm³	221cm³	335cm³	335cm³
Closing / opening minimum time 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
Répétabilité Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Poids Weight	2450g	3230g	3140g	2490g	3270g	3180g

Force de serrage

Les graphiques indiquent la force de serrage sur chaque mâchoire en fonction de la pression et de la longueur du bras de levier Z.

Gripping force

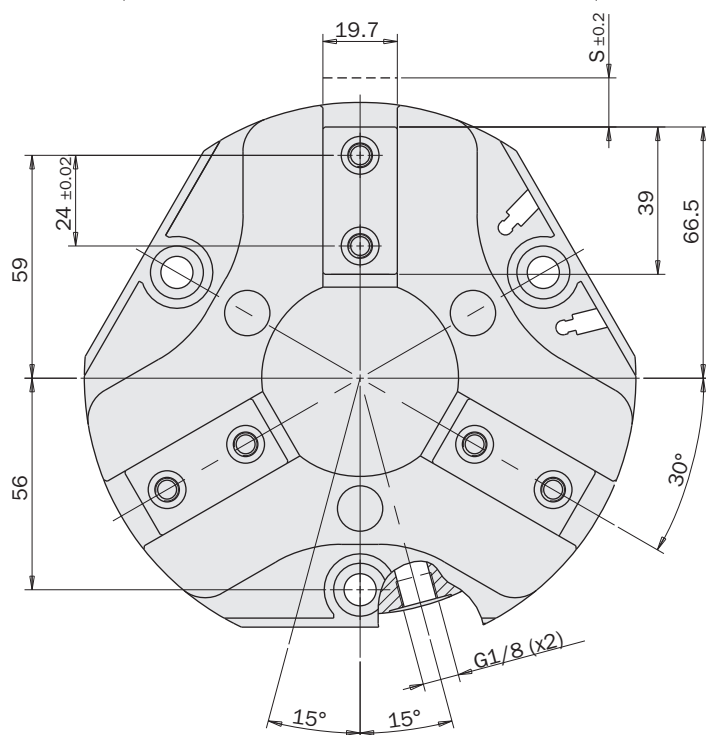
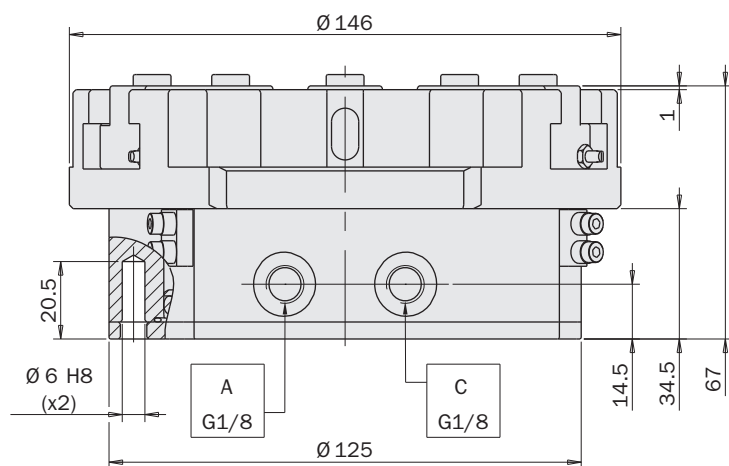
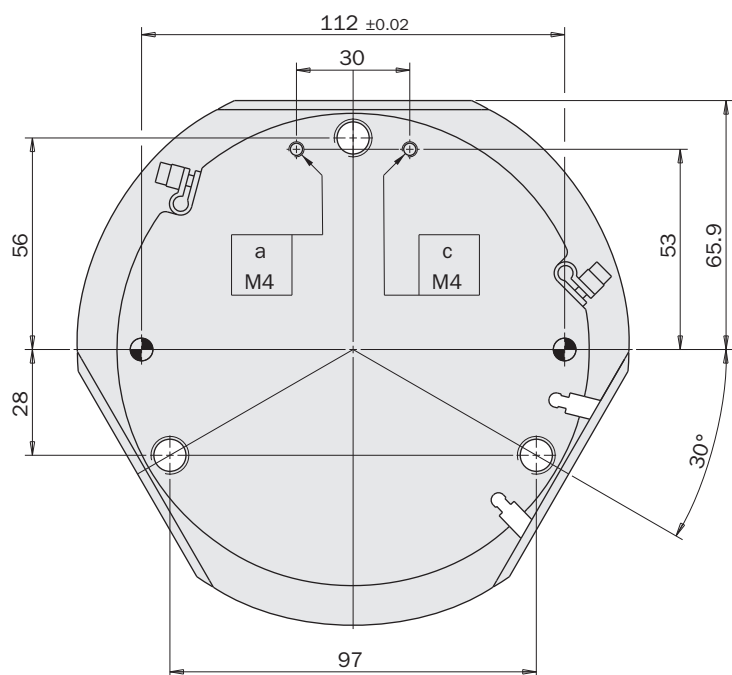
The graphs show the gripping force on each jaw, as a function of the operating pressure and the gripping tool length Z.



La force indiquée dans ces graphiques se réfère à une mâchoire. La force totale est le triple de cette valeur.

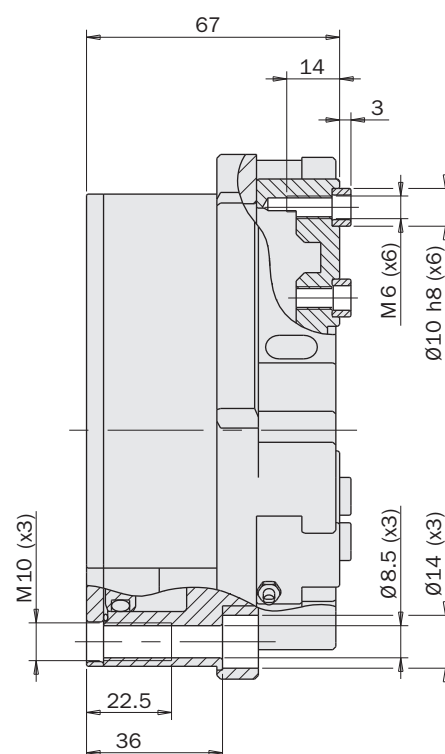
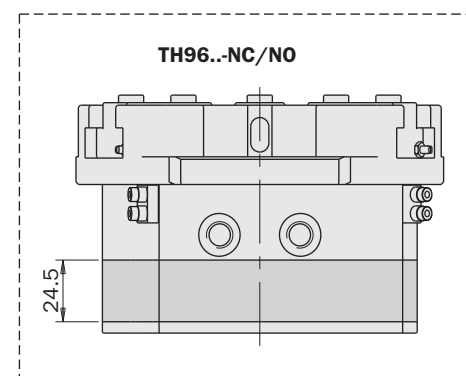
The force shown in these graphs refers to one jaw. The total force is triple.

Dimensions (mm)
Dimensions (mm)



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

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



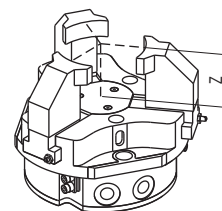
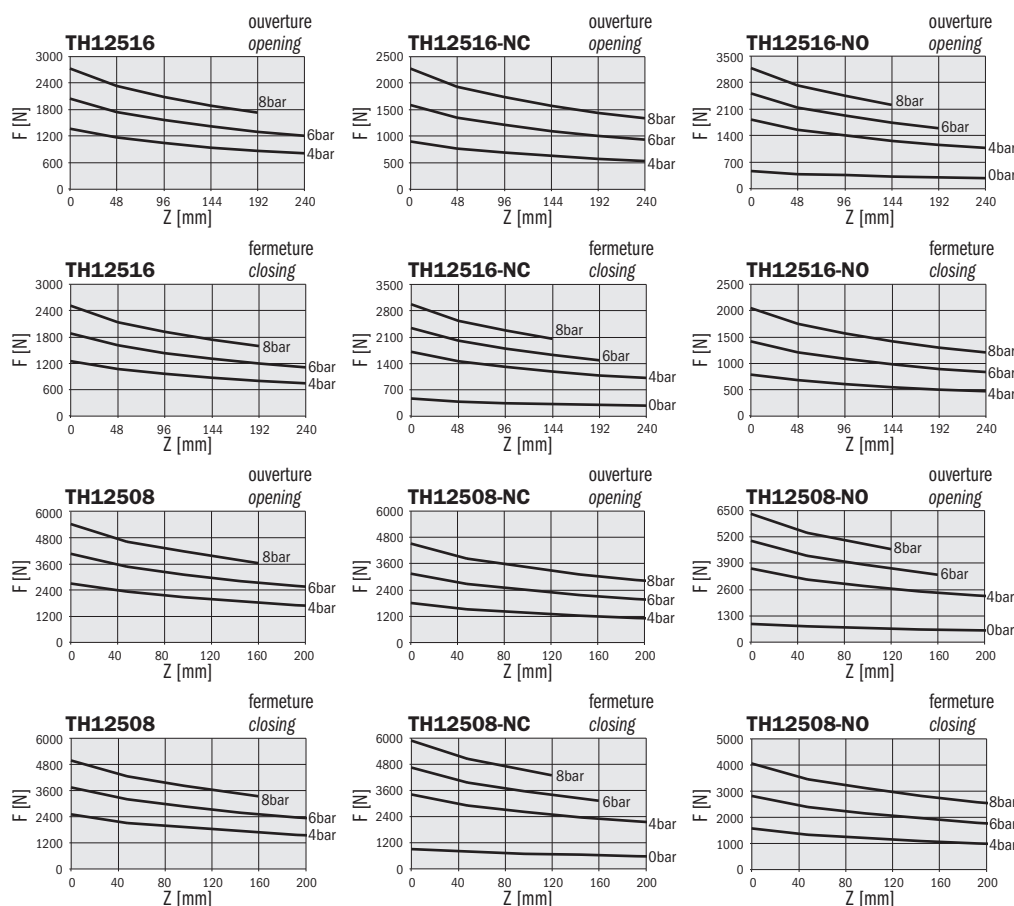
	TH12516	TH12516-NC	TH12516-NO	TH12508	TH12508-NC	TH12508-NO
Fluide Medium	Air comprimé selon ISO 8573-1:2010 [7:4:4] Compressed air in compliance with ISO 8573-1:2010 [7:4:4]					
Pression d'utilisation Operating pressure range	1.5 ÷ 8bar	3 ÷ 8bar	3 ÷ 8bar	1.5 ÷ 8bar	3 ÷ 8bar	3z ÷ 8bar
Température d'utilisation Operating temperature range	5 ÷ 100°C.					
Force de serrage par mâchoire en ouverture à 6 bar Opening gripping force on each jaw at 6 bar	2050N	1538 ÷ 1644N	2465 ÷ 2571N	4070N	3050 ÷ 3260N	4888 ÷ 5099N
Force de serrage totale en ouverture à 6 bar Opening total gripping force at 6 bar	6150N	4614 ÷ 4932N	7395 ÷ 7713N	12210N	9150 ÷ 9780N	14664 ÷ 15297N
Force de serrage par mâchoire en fermeture à 6 bar Closing gripping force on each jaw at 6 bar	1880N	2294 ÷ 2400N	1367 ÷ 1473N	3740N	4550 ÷ 4761N	2712 ÷ 2922N
Force de serrage par mâchoire en fermeture à 6 bar Closing total gripping force at 6 bar	5640N	6882 ÷ 7200N	4101 ÷ 4419N	11220N	13650 ÷ 14283N	8136 ÷ 8766N
Course Stroke (±0.2 mm)	3x16mm	3x16mm	3x16mm	3x8mm	3x8mm	3x8mm
Fréquence de fonctionnement maximum Maximum working frequency	1Hz	1Hz	1Hz	1Hz	1Hz	1Hz
Consommation d'air par cycle Cycle air consumption	452cm³	700cm³	700cm³	452cm³	700cm³	700cm³
Temps minimum de fermeture / ouverture 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
Répétabilité Repetition accuracy	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Poids Weight	4920g	6640g	6460g	4990g	6710g	6530g

Force de serrage

Les graphiques indiquent la force de serrage sur chaque mâchoire en fonction de la pression et de la longueur du bras de levier 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.



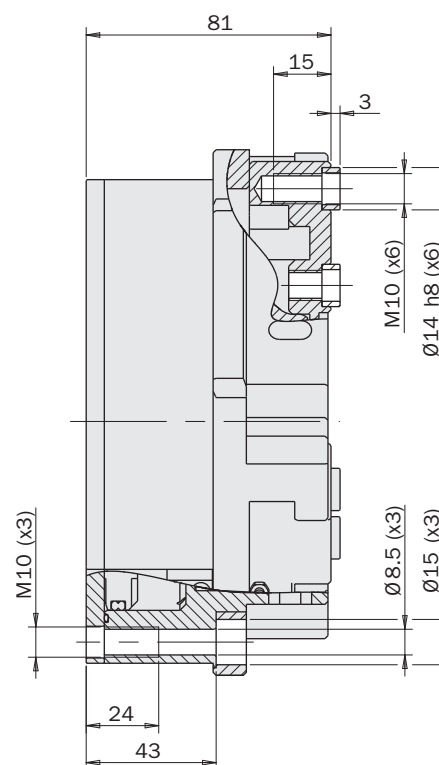
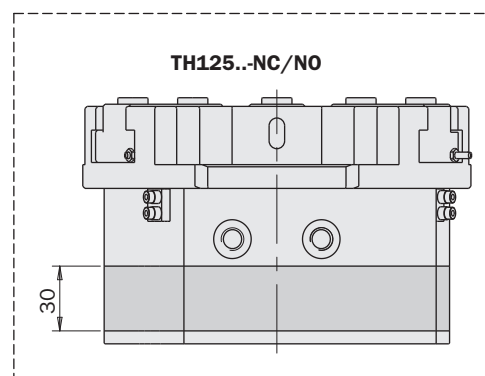
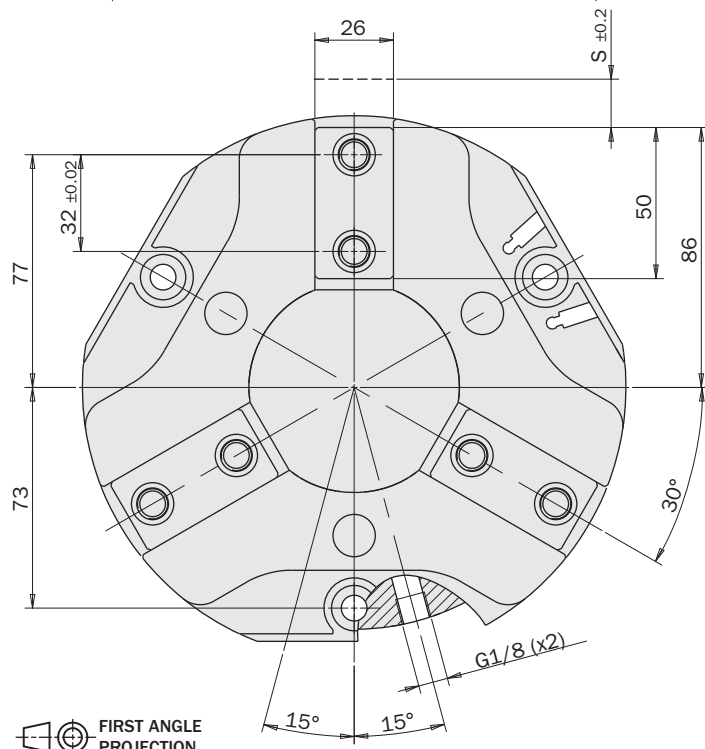
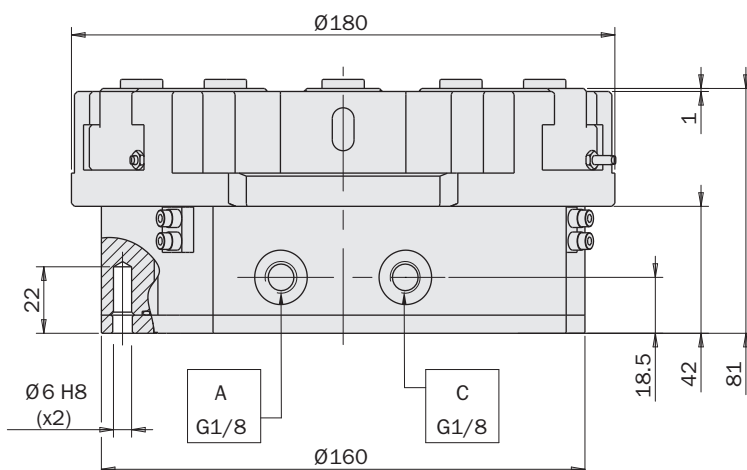
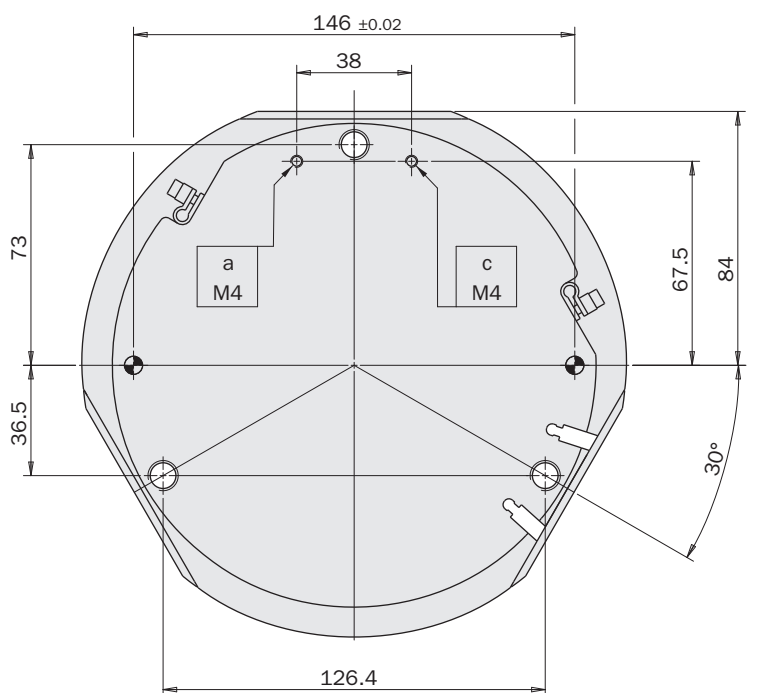
La force indiquée dans ces graphiques se réfère à une mâchoire. La force totale est le triple de cette valeur.

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

Dimensions (mm)
Dimensions (mm)

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

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



 FIRST ANGLE
PROJECTION

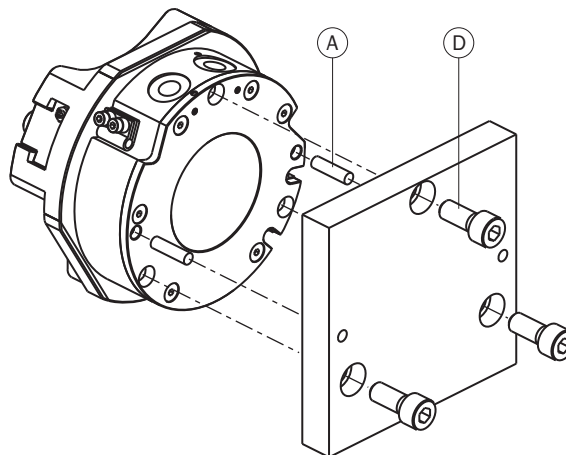
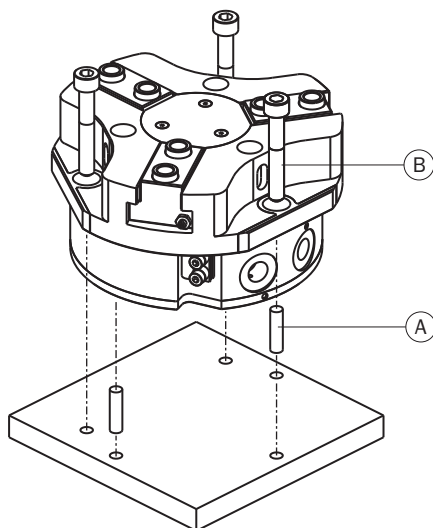
Fixation de la pince

La pince peut être montée en position fixe ou sur des pièces en mouvement.

Dans ce dernier cas, tenir compte de la force d'inertie à laquelle la pince et sa charge sont soumises.

Utiliser 3 vis et 2 axes de centrage (A) pour la fixation de la pince.

Les vis peuvent traverser la pince (B) ou la plaque de montage (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.

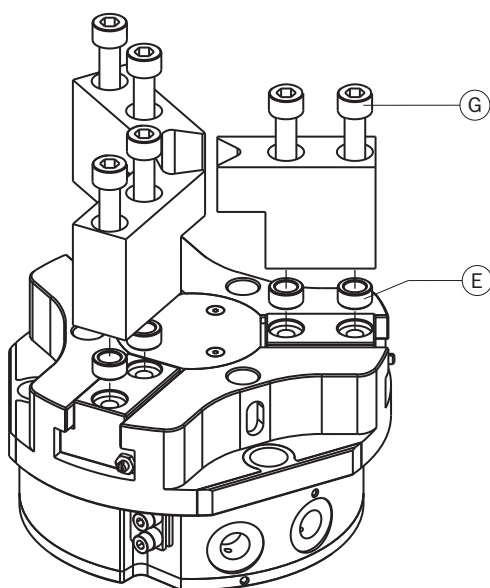
Use 3 screws and 2 centering pins (A), for the gripper fastening.

The screws can go through the gripper (B), or through the mounting plate (D).

Fixation des doigts de prise

Les doigts doivent être aussi courts et légers que possible.

Les fixer avec 2 vis (G) et 2 manchons de centrage (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



6 anneaux de centrage sont fournis avec les pinces.

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

Charges admissibles

Vérifier dans le tableau les charges admissibles.

Forces et couples excessifs peuvent endommager la pince et entraîner des dysfonctionnement risquant de compromettre la sécurité de l'opérateur.

F_s , M_x_s , M_y_s , M_z_s sont les charges maximums admissibles en conditions statiques. (avec les mâchoires immobiles).

F_d , M_x_d , M_y_d , M_z_d sont les charges maximums admissibles en conditions dynamiques. (avec les mâchoires en mouvement).

Le tableau montre en outre les masses admissibles (m) pour chaque doigt de prise en fonction du temps d'ouverture et de fermeture.

Utiliser des réducteurs de débit (non fournis) pour obtenir la vitesse désirée.

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.

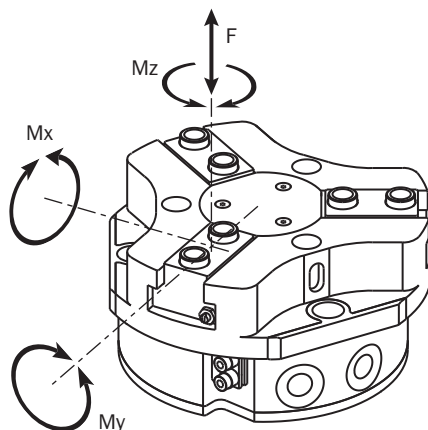
Static means motionless jaws.

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

Capteurs magnétiques (en option)

Le relevé de la position d'exercice est confié à un ou deux capteurs magnétiques qui relèvent la position par l'aimant placé sur le piston à l'intérieure.

En vue d'un fonctionnement correct, éviter de les utiliser à proximité de grandes masses de matériaux ferromagnétiques ou de champs magnétiques importants.

Capteurs pouvant être utilisés:

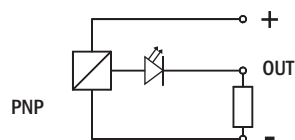
SN4N225-G	PNP	Câble 2.5m 2.5m cable
SN4M225-G	NPN	
SN3N203-G	PNP	Connecteur M8 M8 snap plug connector
SN3M203-G	NPN	
SS4N225-G	PNP	Câble 2.5m 2.5m cable
SS4M225-G	NPN	
SS3N203-G	PNP	Connecteur M8 M8 snap plug connector
SS3M203-G	NPN	

Magnetic sensors (optional)

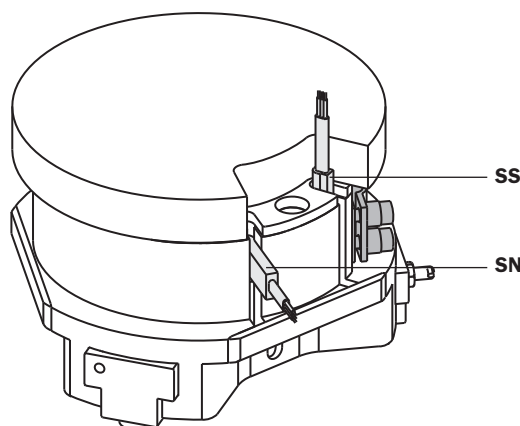
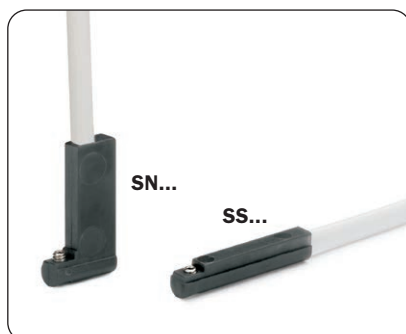
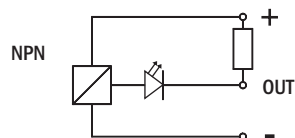
The operating position can be checked by one or two magnetic sensors, that detect the magnet on the piston inside.

Therefore a near big mass of ferromagnetic material or intense magnetic fields may cause sensing troubles.

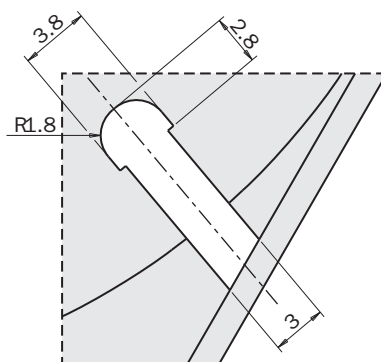
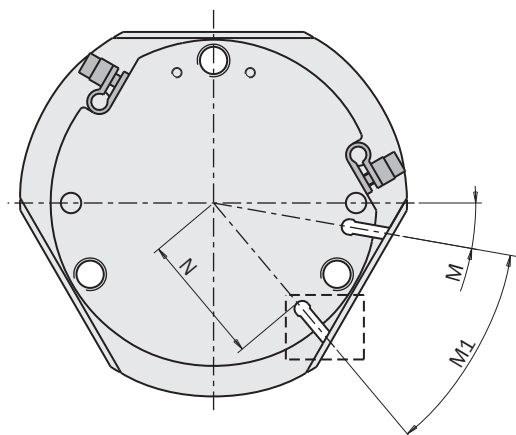
Use sensors:



Magneto-resistive



	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°



Capteurs inductifs (en option)

Avec les dimensions plus importantes, il est également possible d'utiliser des capteurs inductifs diamètre 4 mm, fixation via SJJ-A01 (fournis).

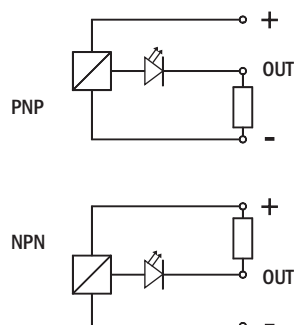
Après fixation du capteur, ajuster la position du composant métallique (M) pour sélectionner le point on.

			TH54... TH76... TH96... TH125...
SI4M225-G	NPN	Câble 2.5m	☒
SI4N225-G	PNP	2.5m cable	☒

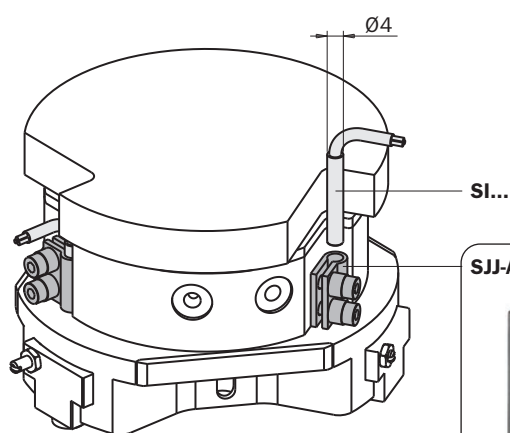
Inductive sensors (optional)

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

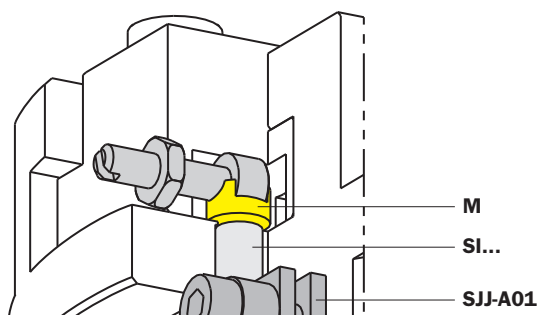
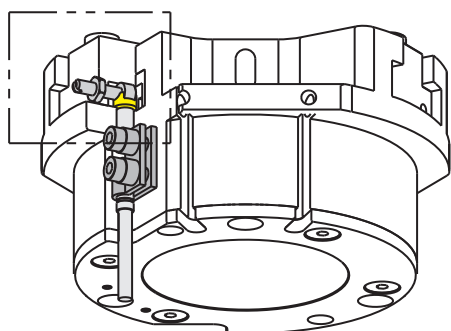
After the sensor fastening, the position of the metal part (M) must be adjusted to select the on point.



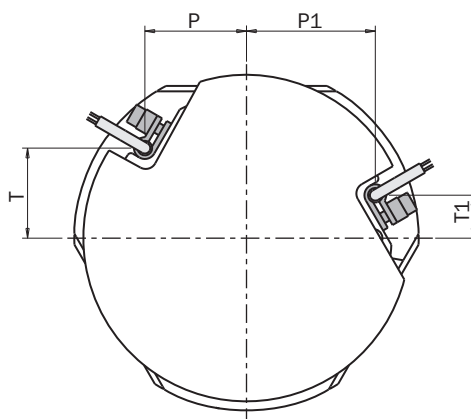
SI...



SJJ-A01



	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



Alimentation en air comprimé

La pince peut être alimentée avec de l'air comprimé via les orifices latéraux (A et C) avec dispositifs de fixation et flexibles (non fournis), ou directement sur les orifices d'air inférieurs.

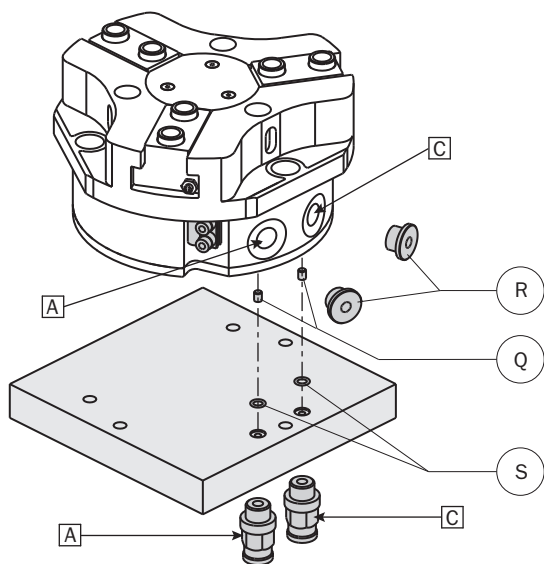
Air comprimé en A: ouverture de la pince.

Air comprimé en C: fermeture de la pince.

Utiliser de l'air comprimé filtré.

Le choix initial, lubrifié ou non lubrifié, doit être maintenu pour toute la durée de la pince.

Le circuit pneumatique doit être pressurisé progressivement pour éviter tout mouvement incontrôlé.



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.

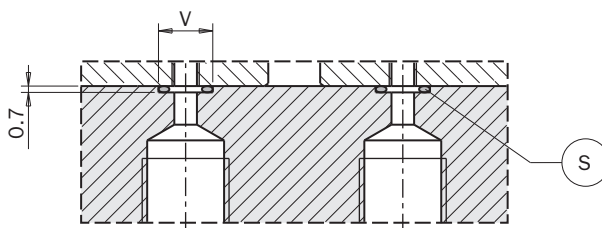
Compressed air in A: gripper opening.

Compressed air in C: gripper closing.

The gripper is driven by filtered compressed air not necessarily lubricated.

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

Circuit pneumatique

Dysfonctionnements possibles sur le circuit d'alimentation de l'air comprimé:

- 1- Variation de la pression.
- 2- Mise sous pression avec le cylindre vide.
- 3- Coupure de pression.
- 4- Vitesse des mâchoires excessive.

Solutions possibles:

- 1- Réservoir externe (A).
- 2- Vanne de démarrage progressif (B).
- 3- Vanne de sûreté (C).
- 4- Réducteur de débit (D).

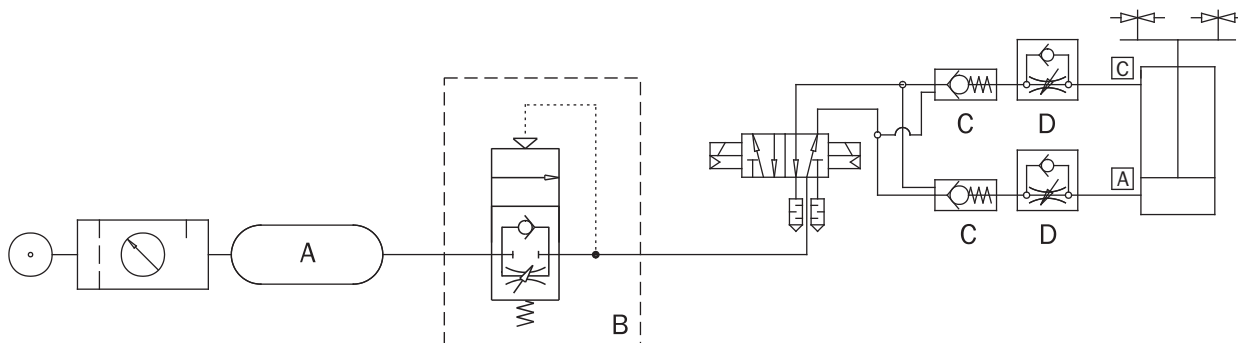
Pneumatic circuit

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).



Avertissements

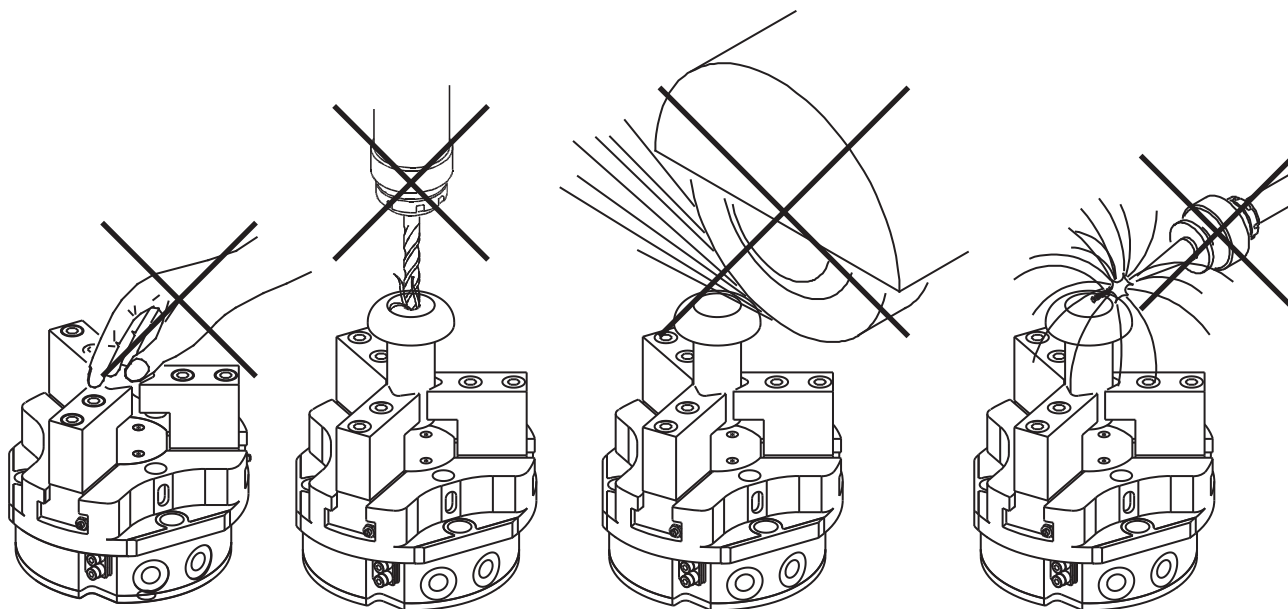
Éviter le contact avec des substances corrosives, projections de soudage ou poudres abrasives qui pourraient endommager la glissière.

Ne pas introduire les mains entre les douilles et ne laisser aucun objet sur le parcours de la pince.

La pince ne peut être mise en marche que si la machine dont elle fait partie a été déclarée conforme aux dispositions de sûreté en vigueur.

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.



Maintenance

La pince doit être lubrifiée tous les 5 millions de cycles avec:

- BERULUB FG-H 2 SL
(Lubrifiant NSF H1 Enregistrement No. 135919).

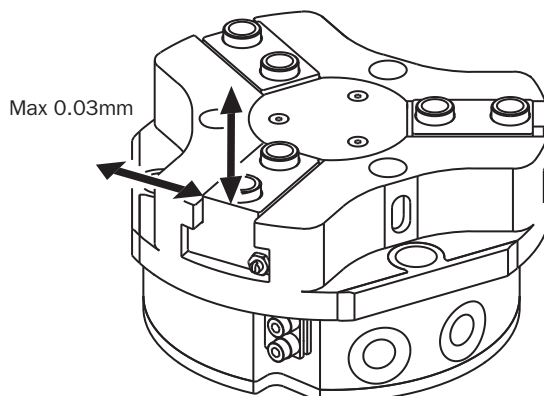
Le jeu des mâchoires est indiqué ci-dessous.

Maintenance

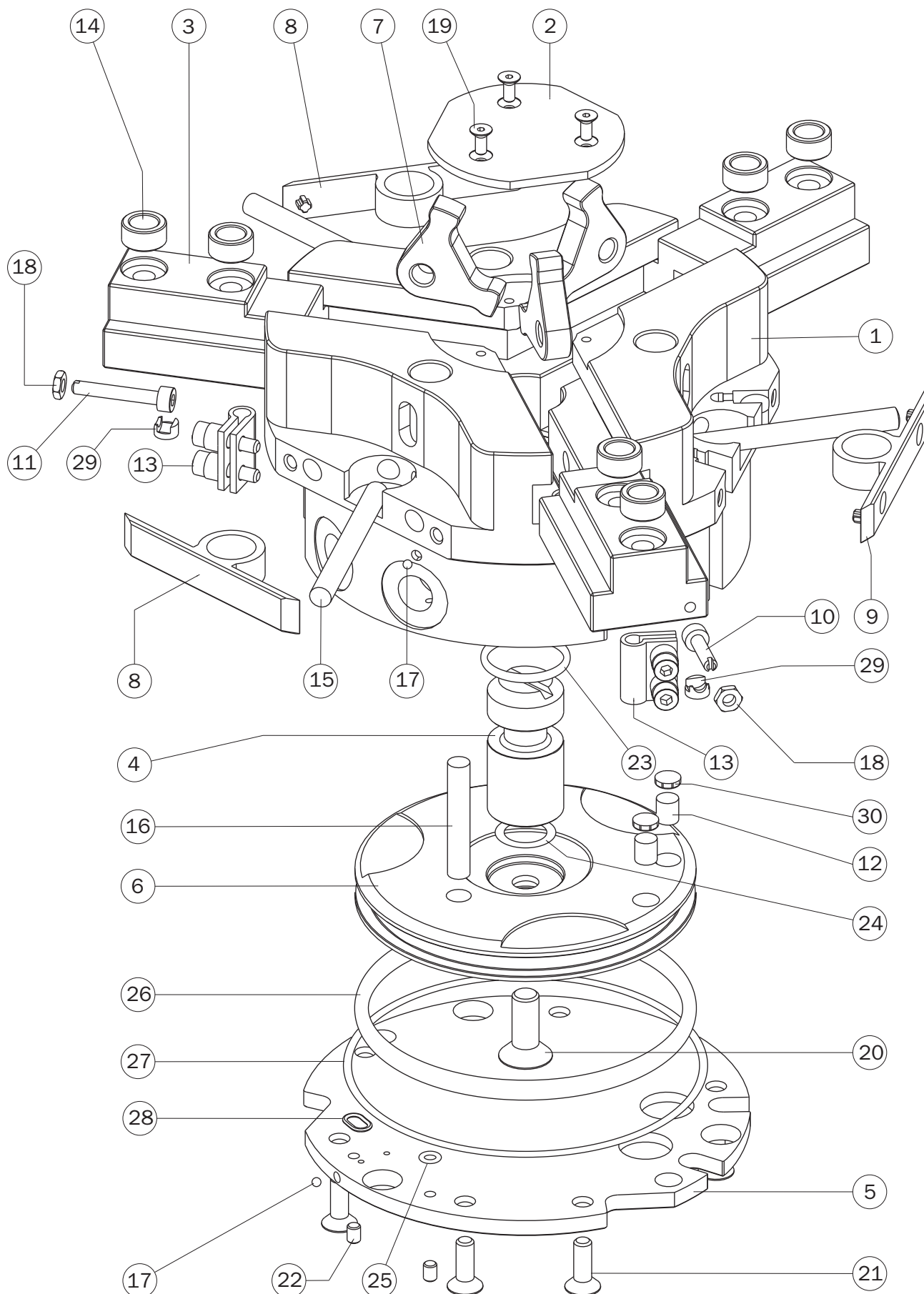
Grease the gripper after 5 million cycles with:

- BERULUB FG-H 2 SL
(Lubricant NSF H1 Registration No. 135919).

The figure below shows the jaw backlash.



Vue explosée
Exploded view



Liste des pièces

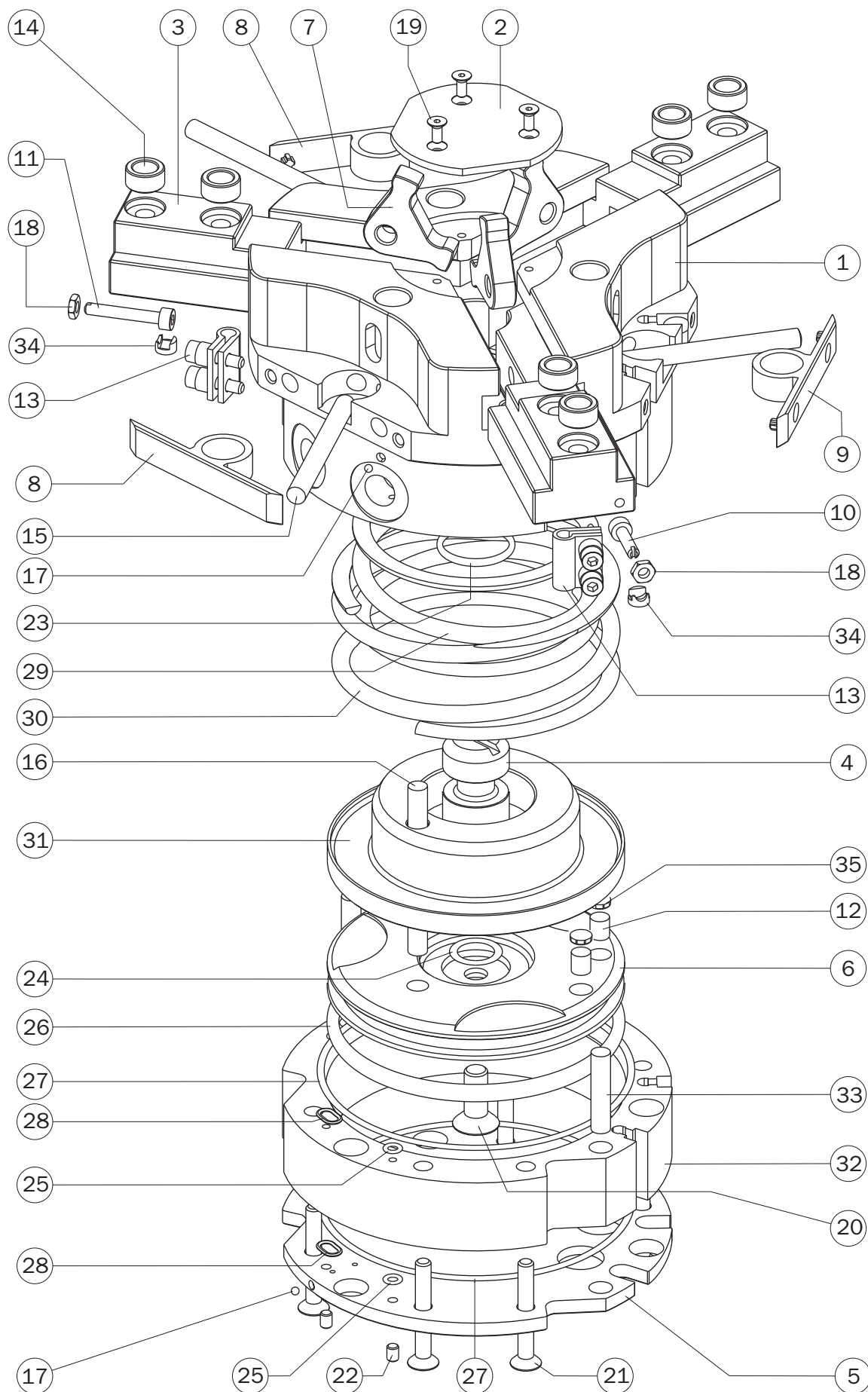
Part list

	TH2725	TH3302 TH3304	TH4503 TH4506	TH5404 TH5408	TH7605 TH7610	TH9606 TH9613	TH12508 TH12516	
1	TH2725-01	TH3304-01	TH4506-01	TH5408-01	TH7610-01	TH9613-01	TH12516-01	1
2	TH2725-07	TH3304-07	TH4506-06	TH5408-07	TH7610-02	TH9613-06	TH12516-07	2
3	TH2725-03	TH3304-02	TH4506-02	TH5408-03	TH7610-03	TH9613-03	TH12516-03	3
4	T2725-04	TH3304-05	TH4506-05	T5408-04	TH7610-05	TH9613-05	TH12516-04	4
5	TH2725-02	TH3304-03	TH4506-03	TH5408-02	TH7610-06	TH9613-02	TH12516-02	5
6	TH2725-06	TH3304-04	TH4506-04	TH5408-06	TH7610-04	TH9613-04	TH12516-06	6
7	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	7
8	TH2725-08	TH3304-08	TH4506-08	TH5408-08	TH7610-08	TH9613-08	TH12516-08	8
9	TH2725-08F	TH3304-08F	TH4506-08F	TH5408-08F	TH7610-08F	TH9613-08F	TH12516-08F	9
10	-	-	-	TH5408-09	TH5408-09	TH9613-09	TH5408-10	10
11	-	-	-	TH5408-10	TH7610-09	TH5408-09	TH12516-10	11
12	R63180-20	EPP12-13	EPP12-13	K-025-11	FES16-3-9	AA-22-8	AA-22-8	12
13	-	-	-	SJJ-A01	SJJ-A01	SJJ-A01	SJJ-A01	13
14	SGP-20-09	ZBH-5	SGP-32-09	LP23-62	PQ5047-07	PQ5047-07	TH12516-09	14
15	SPINA-057 Ø2.5x11.8 DIN6325	SPINA-042 Ø3x16 DIN6325	SPINA-033 Ø4x25 DIN6325	SPINA-013 Ø5x40 DIN6325	SPINA-181 Ø5x50 DIN6325	SPINA-166 Ø6x50 DIN6325	SPINA-152 Ø8x90 DIN6325	15
16	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	16
17	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	17
18	-	-	-	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	18
19	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	19
20	VITE-305 M4x8 DIN7991	VITE-352 M4x10 DIN7991	VITE-290 M5x12 DIN7991	VITE-290 M5x12 DIN7991	VITE-405 M6x16 DIN7991	VITE-428 M6x25 DIN7991	-	20
21	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	21
22	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	22
23	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	23
24	-	GUAR-168 Ø1x9	GUAR-089 Ø1x10	-	GUAR-089 Ø1x10	GUAR-047 Ø1.78x12.42	-	24
25	GUAR-161 Ø1x1.8	GUAR-130 Ø1x2	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-082 Ø1x3	GUAR-091 Ø1x4	GUAR-091 Ø1x4	25
26	GUAR-032H Ø2.62x21.89	GUAR-107H Ø2.62x28.25	GUAR-026P PZ4520	GUAR-182H Ø2.62x48.89	GUAR-191H Ø3.53x69.44	GUAR-195H Ø3.53x88.49	GUAR-215 117x124x4.5	26
27	GUAR-190 Ø1.5x27	GUAR-148 Ø1.78x33.05	GUAR-213 Ø1.5x46	GUAR-050 Ø1.78x56.87	GUAR-212 Ø1.5x78	GUAR-211 Ø1x98	GUAR-188 Ø1.78x126.72	27
28	GUAR-167 Ø1x3.5	GUAR-167 Ø1x3.5	GUAR-091 Ø1x4	GUAR-171 Ø1x4.5	GUAR-021 Ø1x5	GUAR-085 Ø1x8	GUAR-085 Ø1x8	28
29	-	-	-	DH3516-14	DH3516-14	DH3516-14	DH3516-14	29
30	TH2725-20	-	-	-	-	TH9613-19	TH12516-20	30

Unités Rotatives
Rotary UnitsChangeur d'Outil
Quick ChangerProfils et Brides
Profiles and BracketsPincés
GrippersVérins Linéaires
Linear ActuatorsSuspensions
SuspensionsPincés Coupantes
NippersKit-Robot
Robot KitOptions
OptionsCapteurs
Sensors

Vue explosée **Exploded view**

TH NC



Liste des pièces

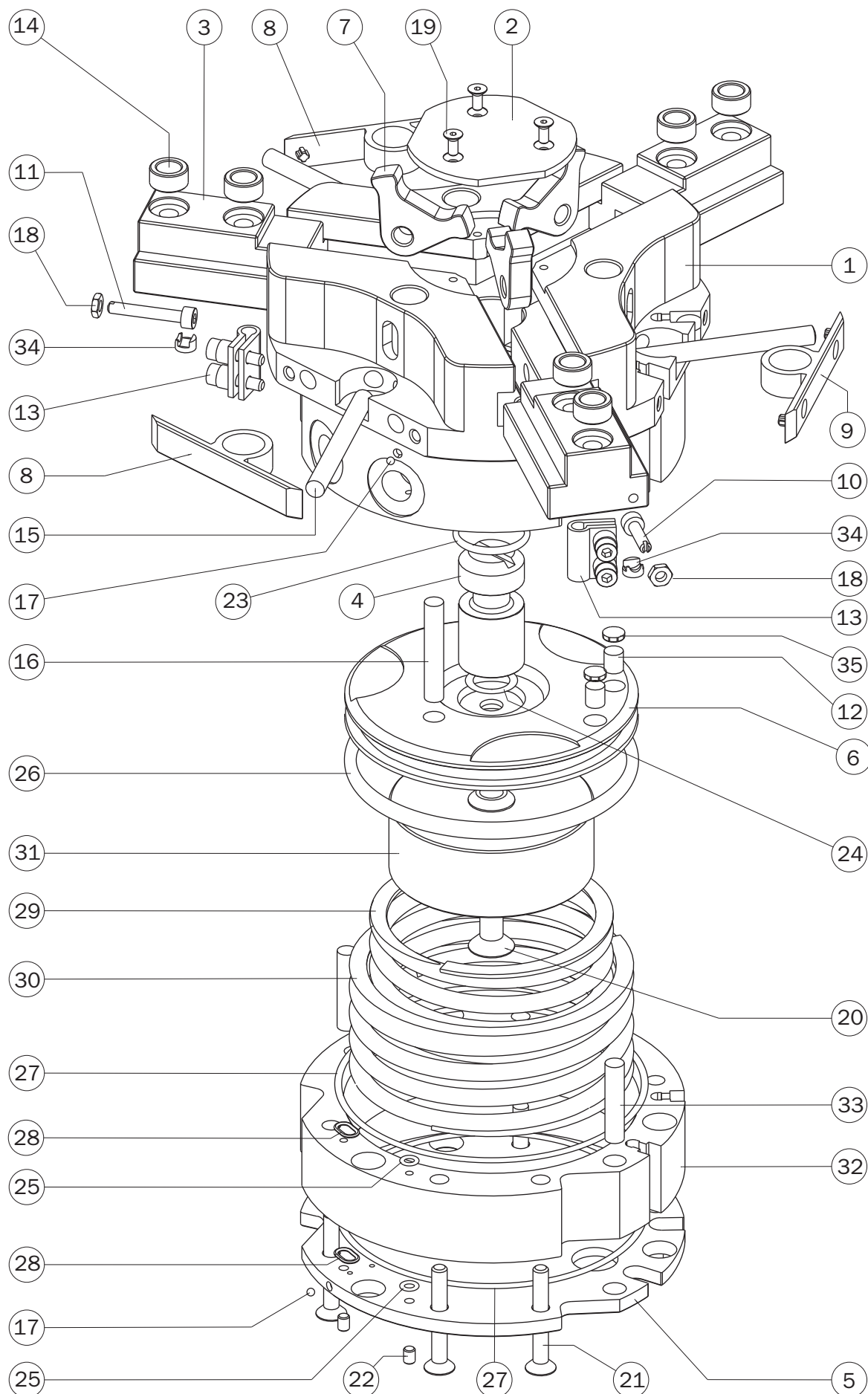
Part list

	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	TH2725-01	TH3304-01	TH4506-01	TH5408-01	TH7610-01	TH9613-01	TH12516-01	1
2	TH2725-07	TH3304-07	TH4506-06	TH5408-07	TH7610-02	TH9613-06	TH12516-07	2
3	TH2725-03	TH3304-02	TH4506-02	TH5408-03	TH7610-03	TH9613-03	TH12516-03	3
4	T2725-10	TH3304-10	TH4506-13	TH5408-12	TH7610-14	TH9613-14	TH12516-14	4
5	TH2725-02	TH3304-03	TH4506-03	TH5408-02	TH7610-06	TH9613-02	TH12516-02	5
6	TH2725-06	TH3304-04NC	TH4506-04	TH5408-06	TH7610-04	TH9613-04	TH12516-06	6
7	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	7
8	TH2725-08	TH3304-08	TH4506-08	TH5408-08	TH7610-08	TH9613-08	TH12516-08	8
9	TH2725-08F	TH3304-08F	TH4506-08F	TH5408-08F	TH7610-08F	TH9613-08F	TH12516-08F	9
10	-	-	-	TH5408-09	TH5408-09	TH9613-09	TH5408-10	10
11	-	-	-	TH5408-10	TH7610-09	TH5408-09	TH12516-10	11
12	PAR-06-7	TH3304-20	EPP12-13	K-025-11	FES16-3-9	TH9613-20	K-025-11	12
13	-	-	-	SJJ-A01	SJJ-A01	SJJ-A01	SJJ-A01	13
14	SGP-20-09	ZBH-5	SGP-32-09	LP23-62	PQ5047-07	PQ5047-07	TH12516-09	14
15	SPINA-057 Ø2.5x11.8 DIN6325	SPINA-042 Ø3x16 DIN6325	SPINA-033 Ø4x25 DIN6325	SPINA-013 Ø5x40 DIN6325	SPINA-181 Ø5x50 DIN6325	SPINA-166 Ø6x50 DIN6325	SPINA-152 Ø8x90 DIN6325	15
16	SPINA-087 Ø2x18 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	16
17	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	17
18	-	-	-	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	18
19	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	19
20	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	-	20
21	VITE-420 M2.5x14 DIN965	VITE-351 M3x20 DIN7991	VITE-354 M4x25 DIN7991	VITE-092 M4x25 DIN965A	VITE-427 M4x30 DIN7991	VITE-203 M5x40 DIN7991	VITE-421 M6x45 DIN7991	21
22	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	22
23	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	23
24	-	GUAR-168 Ø1x9	GUAR-089 Ø1x10	-	GUAR-089 Ø1x10	GUAR-047 Ø1.78x12.42	-	24
25	GUAR-161 Ø1x1.8	GUAR-130 Ø1x2	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-082 Ø1x3	GUAR-091 Ø1x4	GUAR-091 Ø1x4	25
26	GUAR-032H Ø2.62x21.89	GUAR-107H Ø2.62x28.25	GUAR-026P PZ4520	GUAR-182H Ø2.62x48.89	GUAR-191H Ø3.53x69.44	GUAR-195H Ø3.53x88.49	GUAR-215 117x124x4.5	26
27	GUAR-190 Ø1.5x27	GUAR-148 Ø1.78x33.05	GUAR-213 Ø1.5x46	GUAR-050 Ø1.78x56.87	GUAR-212 Ø1.5x78	GUAR-211 Ø1x98	GUAR-188 Ø1.78x126.72	27
28	GUAR-167 Ø1x3.5	GUAR-167 Ø1x3.5	GUAR-091 Ø1x4	GUAR-171 Ø1x4.5	GUAR-021 Ø1x5	GUAR-085 Ø1x8	GUAR-085 Ø1x8	28
29	TH2725-12	TH3304-12	TH4506-15	TH5408-20	TH7610-26	TH9613-26	TH12516-12	29
30	-	-	-	-	TH7610-27	TH9613-27	T12516-13	30
31	TH2725-11	TH3304-11	TH4506-14	TH5408-14	TH7610-15	TH9613-15	TH12516-15	31
32	TH2725-09	TH3304-09	TH4506-12	TH5408-11	TH7610-13	TH9613-13	TH12516-11	32
33	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	33
34	-	-	-	DH3516-14	DH3516-14	DH3516-14	DH3516-14	34
35	-	-	-	-	-	-	TH12516-21	35

Unités Rotatives
Rotary UnitsChangeur d'Outil
Quick ChangerProfilés et Brides
Profiles and BracketsPincettes
GrippersVérins Linéaires
Linear ActuatorsSuspensions
SuspensionsPincettes Coupantes
NippersKit-Robot
Robot KitOptions
OptionsCapteurs
Sensors

Vue explosée
Exploded view

TH NO



Liste des pièces

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	TH2725-01	TH3304-01	TH4506-01	TH5408-01	TH7610-01	TH9613-01	TH12516-01	1
2	TH2725-07	TH3304-07	TH4506-06	TH5408-07	TH7610-02	TH9613-06	TH12516-07	2
3	TH2725-03	TH3304-02	TH4506-02	TH5408-03	TH7610-03	TH9613-03	TH12516-03	3
4	T2725-04	TH3304-05	TH4506-05	TH5408-04	TH7610-05	TH9613-05	TH12516-04	4
5	TH2725-02	TH3304-03	TH4506-03	TH5408-02	TH7610-06	TH9613-02	TH12516-02	5
6	TH2725-06	TH3304-04	TH4506-04	TH5408-06	TH7610-04	TH9613-04	TH12516-06	6
7	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	7
8	TH2725-08	TH3304-08	TH4506-08	TH5408-08	TH7610-08	TH9613-08	TH12516-08	8
9	TH2725-08F	TH3304-08F	TH4506-08F	TH5408-08F	TH7610-08F	TH9613-08F	TH12516-08F	9
10	-	-	-	TH5408-09	TH5408-09	TH9613-09	TH5408-10	10
11	-	-	-	TH5408-10	TH7610-09	TH5408-09	TH12516-10	11
12	R63180-20	EPP12-13	EPP12-13	K-025-11	FES16-3-9	AA-22-8	AA-22-8	12
13	-	-	-	SJJ-A01	SJJ-A01	SJJ-A01	SJJ-A01	13
14	SGP-20-09	ZBH-5	SGP-32-09	LP23-62	PQ5047-07	PQ5047-07	TH12516-09	14
15	SPINA-057 Ø2.5x11.8 DIN6325	SPINA-042 Ø3x16 DIN6325	SPINA-033 Ø4x25 DIN6325	SPINA-013 Ø5x40 DIN6325	SPINA-181 Ø5x50 DIN6325	SPINA-166 Ø6x50 DIN6325	SPINA-152 Ø8x90 DIN6325	15
16	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	16
17	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	17
18	-	-	-	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	VITE-148 M3 DIN439B	18
19	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	19
20	VITE-286 M4x12 DIN912	VITE-189 M4x14 DIN7991	VITE-425 M5x20 DIN7991	VITE-015 M5x16 DIN912	VITE-428 M6x25 DIN7991	VITE-431 M6x35 DIN7991	VITE-396 M DIN	20
21	VITE-420 M2.5x14 DIN965	VITE-351 M3x20 DIN7991	VITE-354 M4x25 DIN7991	VITE-092 M4x25 DIN965A	VITE-427 M4x30 DIN7991	VITE-203 M5x40 DIN7991	VITE-421 (M6x45) DIN7991	21
22	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	22
23	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	23
24	-	GUAR-168 Ø1x9	GUAR-089 Ø1x10	-	GUAR-089 Ø1x10	GUAR-047 Ø1.78x12.42	-	24
25	GUAR-161 Ø1x1.8	GUAR-130 Ø1x2	GUAR-130 Ø1x2	GUAR-082 Ø1x3	GUAR-082 Ø1x3	GUAR-091 Ø1x4	GUAR-091 Ø1x4	25
26	GUAR-032H Ø2.62x21.89	GUAR-107H Ø2.62x28.25	GUAR-026P PZ4520	GUAR-182H Ø2.62x48.89	GUAR-191H Ø3.53x69.44	GUAR-195H Ø3.53x88.49	GUAR-215 117x124x4.5	26
27	GUAR-190 Ø1.5x27	GUAR-148 Ø1.78x33.05	GUAR-213 Ø1.5x46	GUAR-050 Ø1.78x56.87	GUAR-212 Ø1.5x78	GUAR-211 Ø1x98	GUAR-188 Ø1.78x126.72	27
28	GUAR-167 Ø1x3.5	GUAR-167 Ø1x3.5	GUAR-091 Ø1x4	GUAR-171 Ø1x4.5	GUAR-021 Ø1x5	GUAR-085 Ø1x8	GUAR-085 Ø1x8	28
29	TH2725-12	TH3304-12	TH4506-15	TH5408-21	TH7610-16	TH9613-16	TH12516-12	29
30	-	-	-	-	TH7610-17	TH9613-17	T12516-13	30
31	TH2725-13	TH3304-13	TH4506-16	TH5408-13	TH7610-18	TH9613-18	TH12516-16	31
32	TH2725-09	TH3304-09	TH4506-12	TH5408-11	TH7610-13	TH9613-13	TH12516-11	32
33	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	33
34	-	-	-	DH3516-14	DH3516-14	DH3516-14	DH3516-14	34
35	TH2725-20	-	-	-	-	TH9613-19	TH12516-20	35

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OptionsCapteurs
Sensors