

FPS

FPSERVICES AUTOMATION

EOAT 20

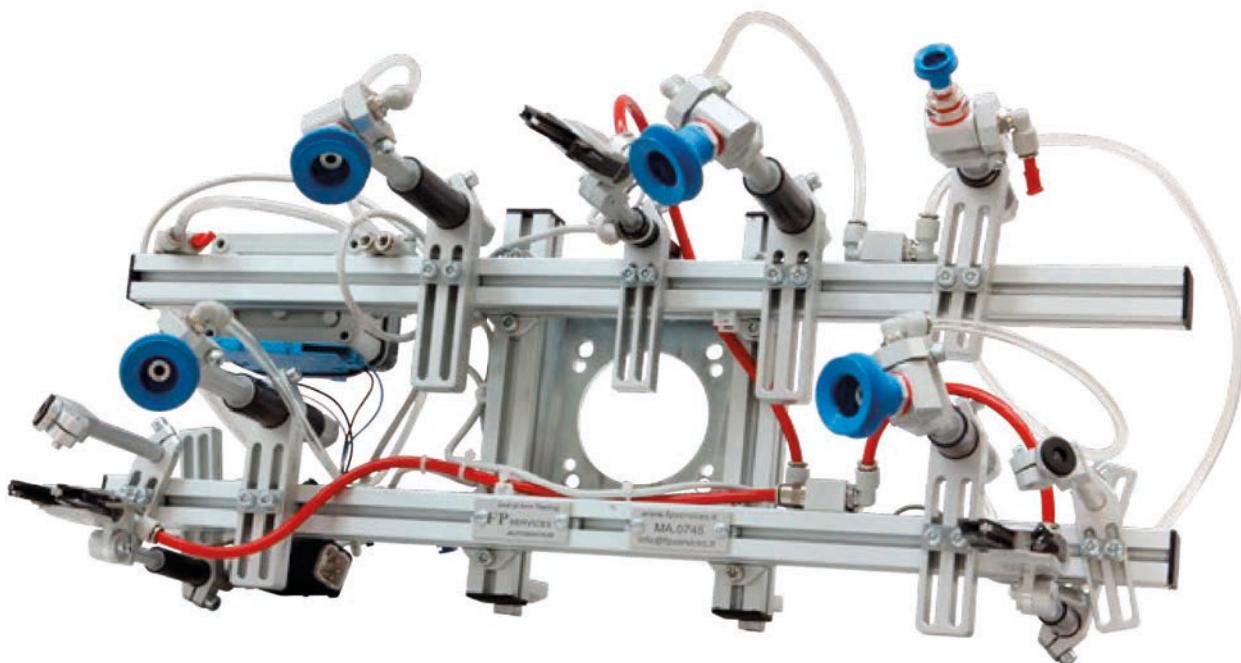
GB·IT

End Of Arm Tooling

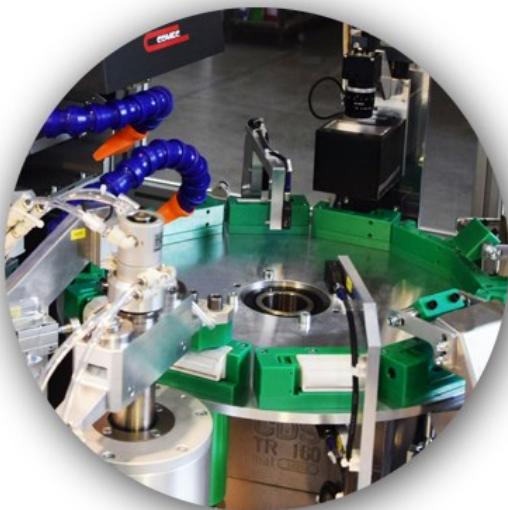
Mani di Presa



Customized Gripper 96 Cavities - Mano di presa con 96 Cavità



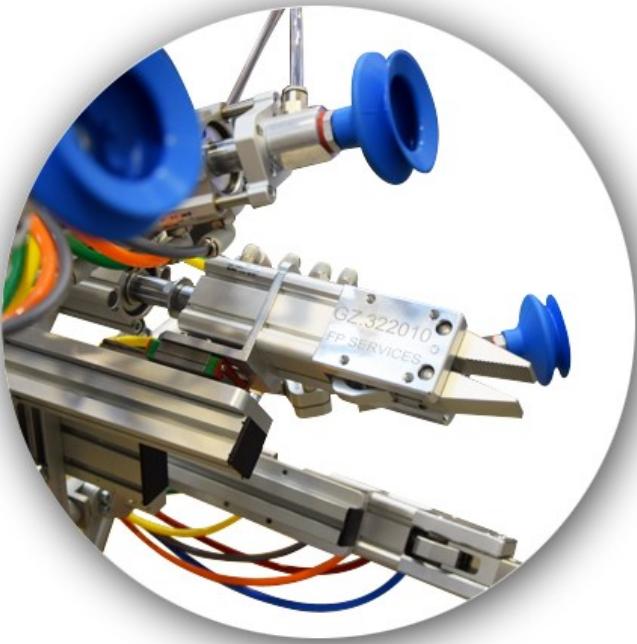
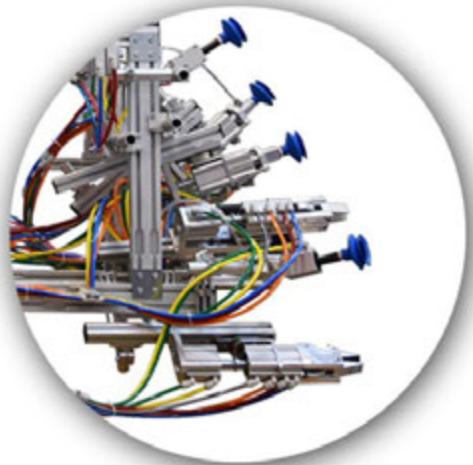
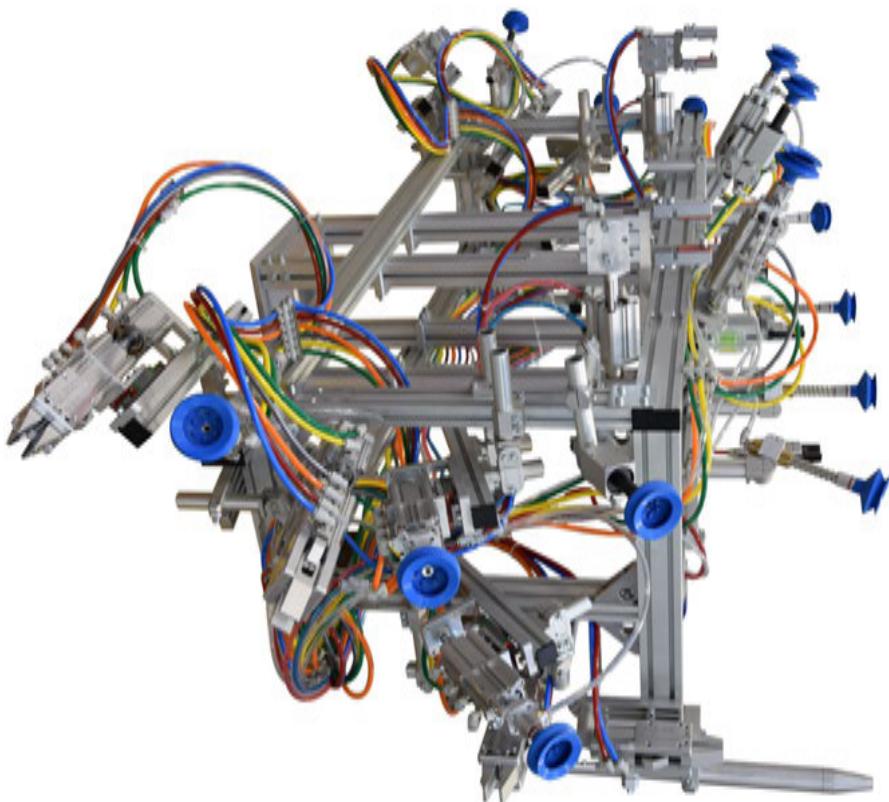
Standard EOAT



**Pad Printing and
Vision System**
Capacity **60/PCS/min**

Tampografica
Con Sistema Video
Dalle capacità di 60/pz/min



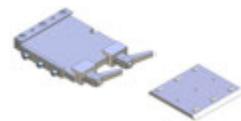


Car Bumper Gripper

Mani di Presa
per paraurti

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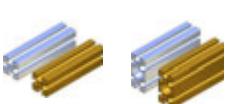
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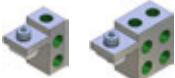
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Notes/*Note*

CA.01 SWM

. Quick changer (robot side)

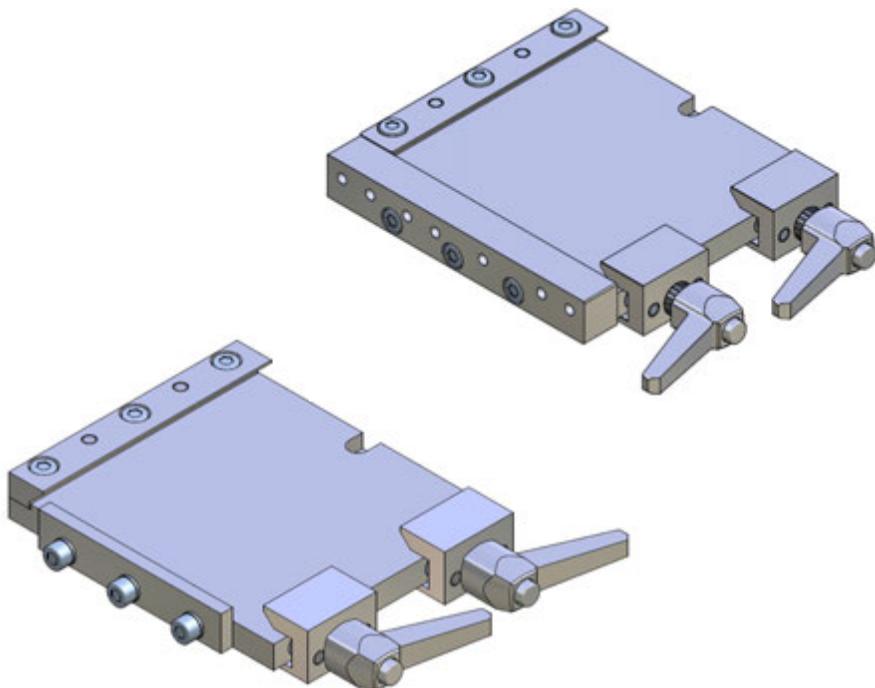


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H = Handling weight as approx. value

Peso approssimativo sostenuto in movimento
M = Suitable for EOAT Groundplate GPM....

Applicabile ad EOAT piastra GPM...

Remarks / Osservazioni

Material / Materiale:

Aluminium / Alluminio

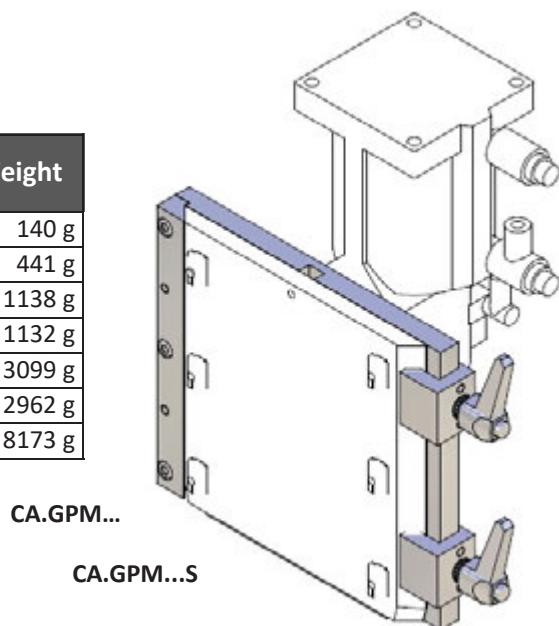
Steel / Acciaio

Surface: Silver anodized / *Galvanized

Superficie: Argento anodizzato / *Zincato

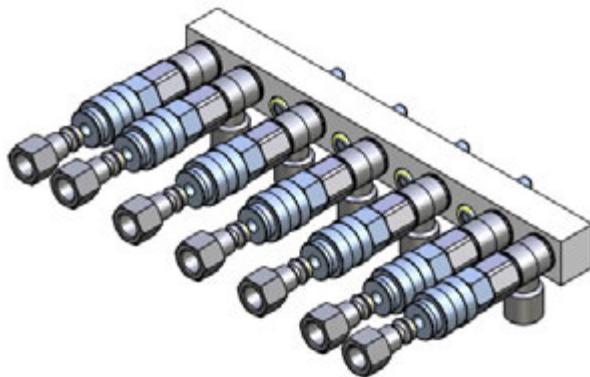
Application example/ Esempio applicativo

Article no.	A	B	C	H		M	Weight	
CA.SWM0	60	60	10	5 kg	ALUMINIUM	CA.GPM0	140 g	
CA.SWM1	100	100		10 kg		CA.GPM1	441 g	
CA.SWM1S*				...		CA.GPM1S	1138 g	
CA.SWM2	160	160	12	20 kg	ALUMINIUM	CA.GPM2	1132 g	
CA.SWM2S*				...		CA.GPM2S	3099 g	
CA.SWM3				40 kg		CA.GPM3	2962 g	
CA.SWM3S*				...	STEELL	CA.GPM3S	8173 g	

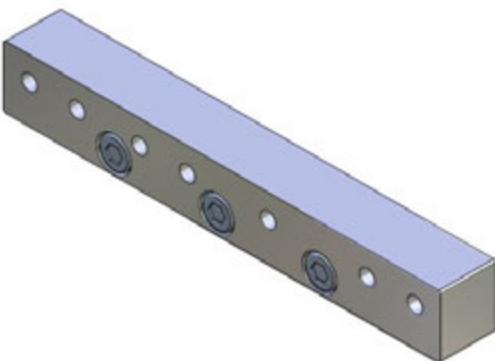
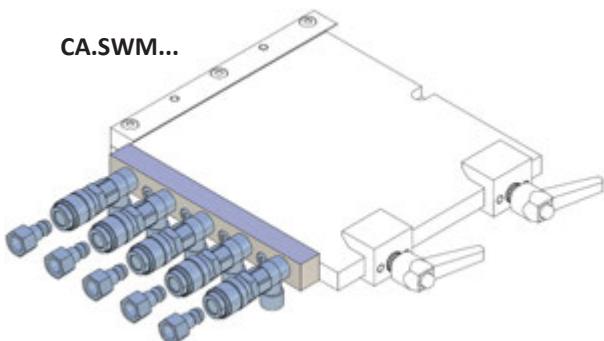


CA.01 LAL - SWM

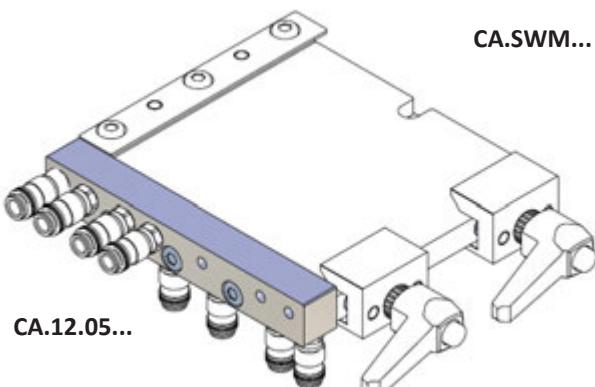
. Pneumatic connection for CA.SWM



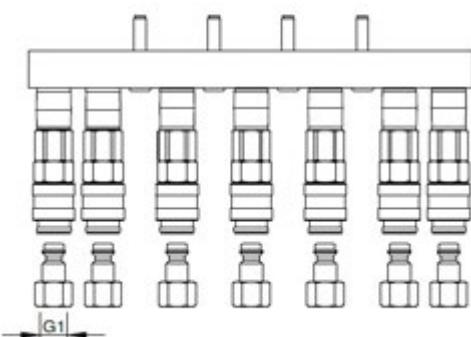
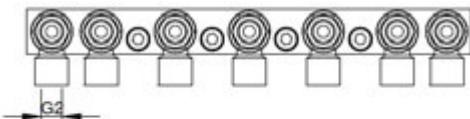
Application example / Esempio applicativo



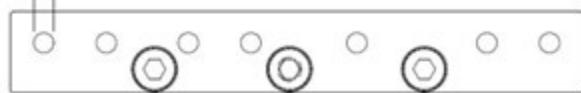
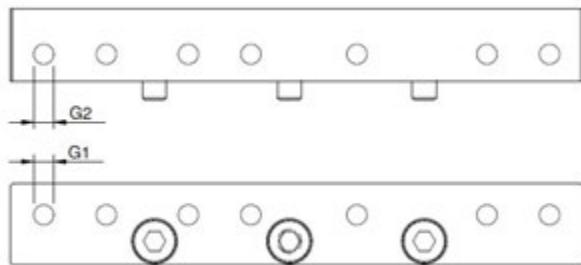
Application example / Esempio applicativo



. Connessione aria per CA.SWM



Article no.	G1	G2	L	M	Weight
CA.LAL.1.5	M5	M5	5	CA.SWM1	154 g
CA.LAL.1.7					225 g
CA.LAL.2.5	G 1/8	G1/8	5	CA.SWM2	631 g
CA.LAL.2.7					742 g
CA.LAL.3.6	G 1/4	G 1/4	6	CA.SWM3	902 g
CA.LAL.3.8					1504 g



Article no.	G1	G2	L	M	Weight
SWM1.8	M5	M5	7	CA.SWM1	71 g
SWM2.8	G 1/8	G1/8		CA.SWM2	136 g
SWM3.8	G 1/4	G 1/4		CA.SWM3	325 g

Table / Tabella

M = Suitable for...
Applicabile a....

L = Number of air connection
Numero di attacchi aria

CA.01 GPM
L/X/JU

. Quick changer (gripper side)

. Cambia utensile (lato mano)

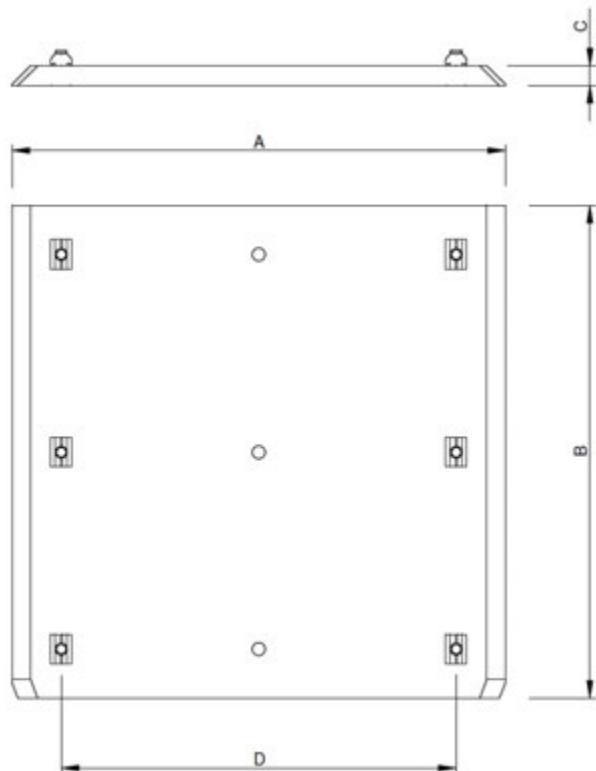
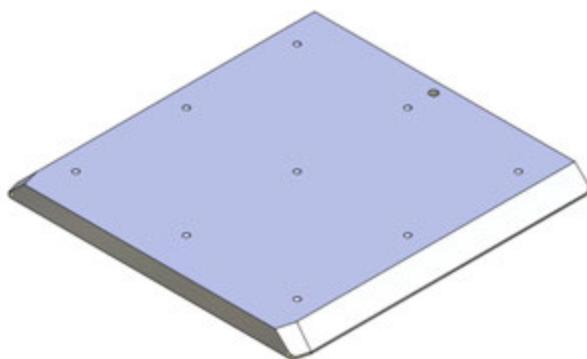
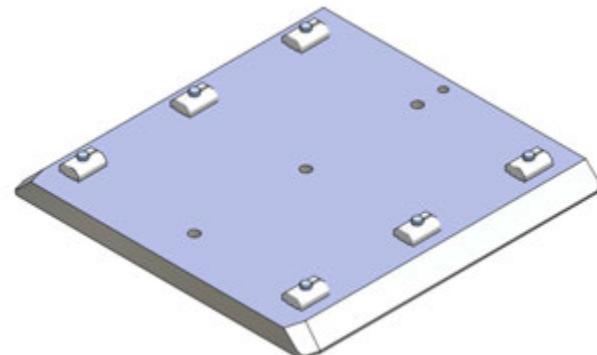


Table / Tabella

M = Suitable for Profile
Applicabile a tutti i Profili

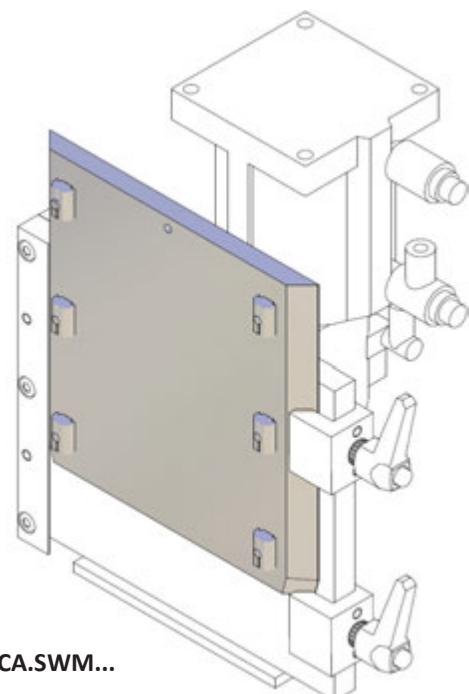
Remarks / Osservazioni

Material / Materiali

Aluminium / Alluminio
Steel /*Acciaio

Surface: Silver anodized / *Galvanized
Superficie: Argento anodizzato / *Zincato

Application example / Esempio applicativo



Article no.	A	B	C	D		M	Weight
CA.GPM0	60	60	8	...	ALUMINIUM	...	69 g
CA.GPM0.X				35		L	104 g
CA.GPM1				201 g
CA.GPM1.X				70		L/X	242 g
CA.GPM1S*				...	STEEL	...	583 g
CA.GPM2	160	160	10	...	ALUMINIUM	...	653 g
CA.GPM2.X				120		L/X/JU	695 g
CA.GPM2S*				...	STEELL	...	1892 g
CA.GPM3				...	ALUMINIUM	...	1613 g
CA.GPM3.X	250	250	200	...		L/X/JU	1677 g
CA.GPM3S*				...	STEEELL	...	4673 g

CA.01 GPG

X/JU

. Ground Plate Spring Loaded

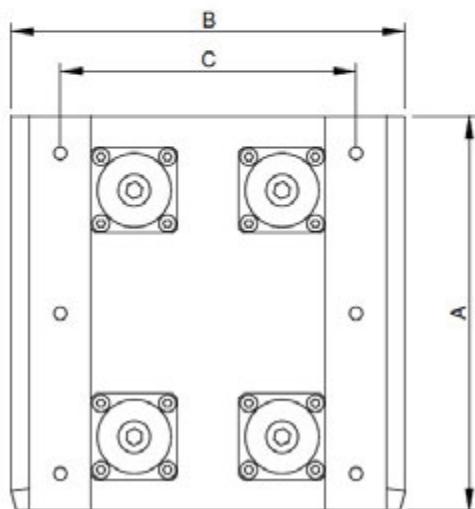
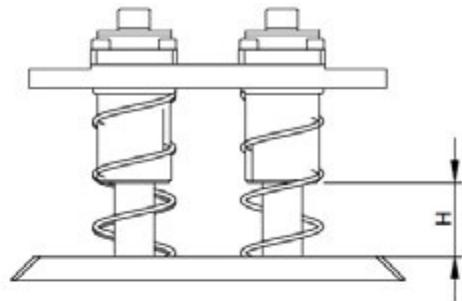
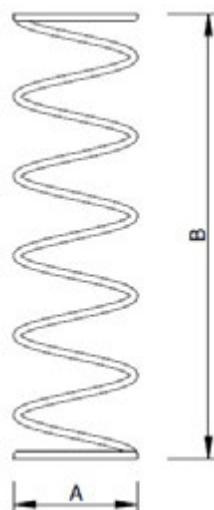
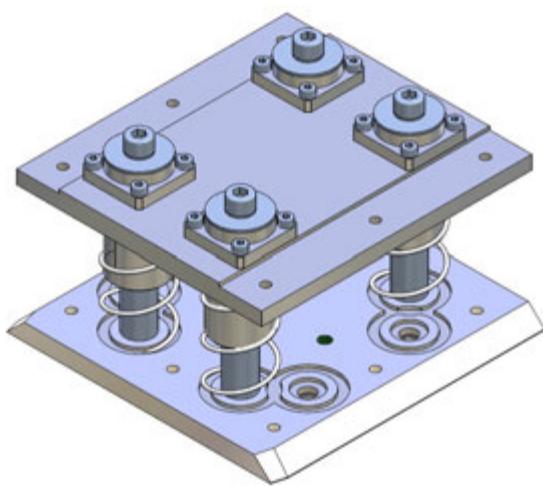


Table / Tabella

H = Stroke
Corsa

L = Number of guides
Numero di guide

Remarks / Osservazioni:

Material /Materiali
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato

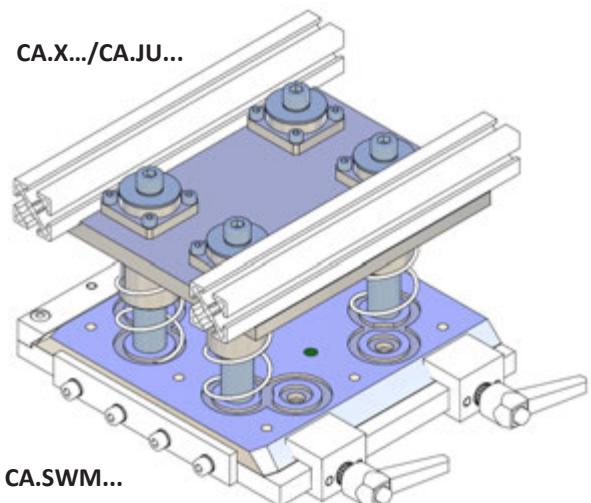
Application example / Esempio applicativo

Article no.	A	B	C	H	F(N)	L	Weight
CA.GPG.1	100	100	70	22	36	2	486 g
CA.GPG.2	160	160	120	30	50	4	1345 g
CA.GPG.3	250	250	200				3800 g

M = Suitable for ...

M = Adatto per

Article no.	A	B	F(N)	M
M.28X58.24N	28	58	24	CA.GPG.1
M.33X120.35N	33	120	35	CA.GPG.2 CA.GPG.3



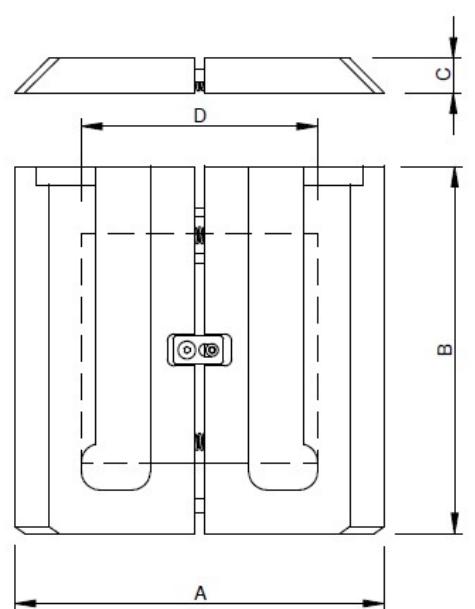
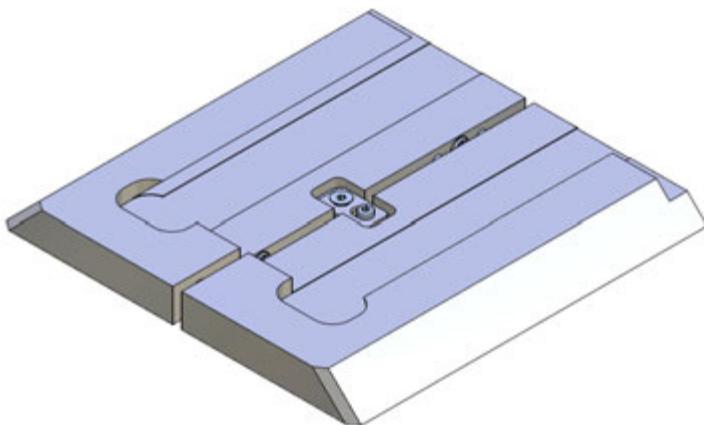
CA.01 GPR
. Ground Plate Reduction


Table / Tabella

M = Suitable for EOAT Groundplate GPM....

Applicabile ad EOAT piastra GPM...

Article no.	A	B	C	D	M	Weight
CA.GPR1.0	100	100	15	60	CA.GPM0 CA.SWM1	263 g
CA.GPR2.1	160	160		100	CA.GPM1 CA.SWM2	703 g
CA.GPR3.2	250	250	20	160	CA.GPM2 CA.SWM3	2441 g

Remarks / Osservazioni:

Application example / Esempio applicativo

Material / Materiale:

Aluminium / Alluminio

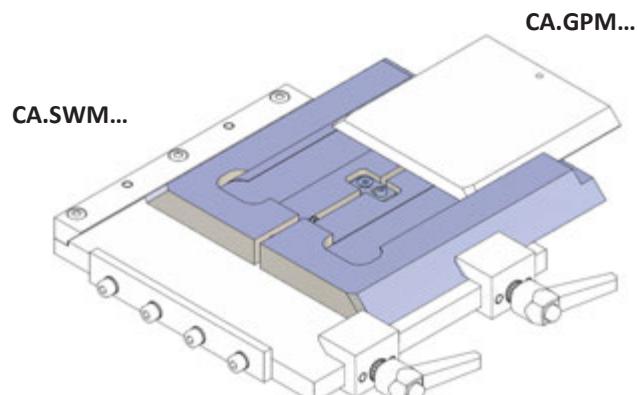
Surface: Silver anodized

Superficie: Argento anodizzato

Adapter plate allows a smaller GPM size in a larger SWM

La riduzione piastra permette una taglia di GPM più piccola in un SWM più largo

No need to convert the robots side

Non c'è bisogno di trasformare il lato robot


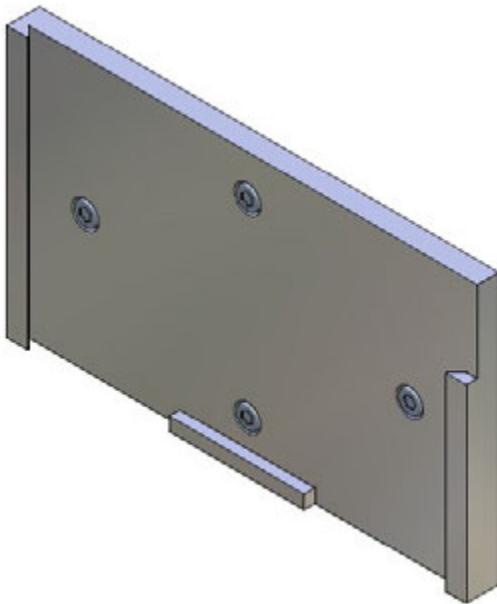
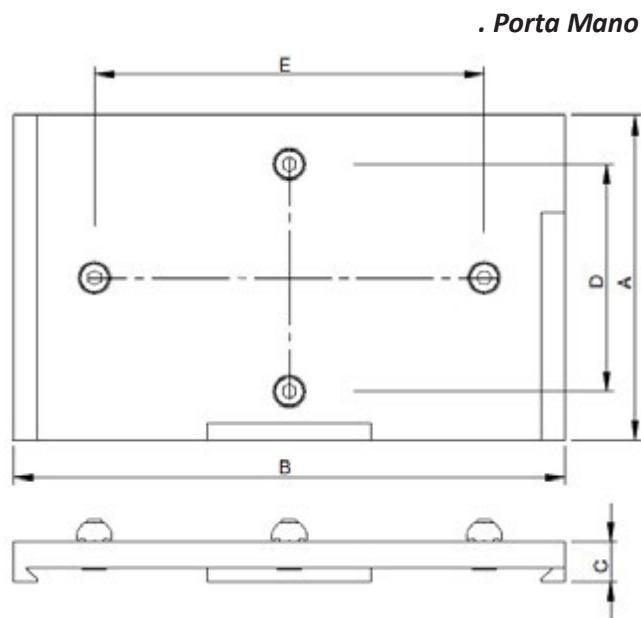
CA.01 GHV**. Holding Fixture**

Table / Tabella

M = Suitable for EOAT Groundplate GPM...*Applicabile ad EOAT piastra GPM...*

Article no.	A	B	C	D	E	M	Weight
CA.GHV.60	60	70	10	35	30	CA.GPM0	128 g
CA.GHV.100		110			70	CA.GPM1	182 g
CA.GHV.160	100	170	12	70	120	CA.GPM2	412 g
CA.GHV.250	120	270	15	90	220	CA.GPM3	1033 g

The holding fixture, once fixed to the wall or frame, is used to store your EOAT when it is not in function

Il porta mano può essere utilizzato con fissaggio su telaio o a muro per immagazzinare le vostre EOAT quando non sono in lavoro

Remarks / Osservazioni:

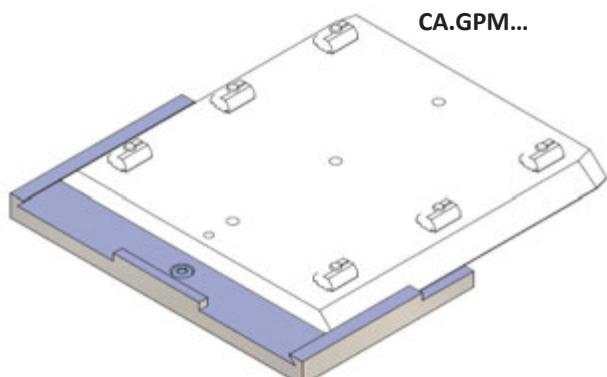
Application example / Esempio applicativo

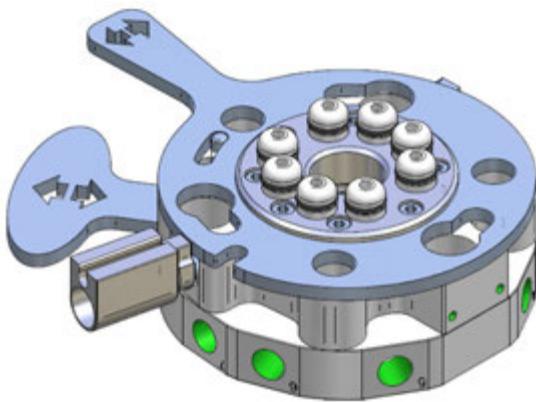
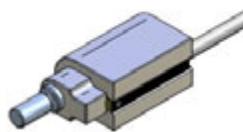
Material / Materiali:

Aluminium / Alluminio

Surface: Silver anodized

Superficie: Argento Anodizzato



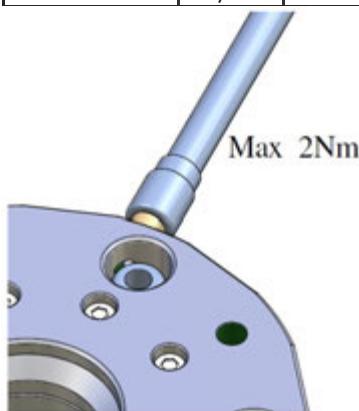
CA.CUDL.90
. Quick changer
. Cambia utensile
Robot side RS Lato Robot

Security lock
Blocco di sicurezza

OPTIONAL


- Quick changer for easy replacement of EOAT on the robot
- Suitable for vacuum connectors as well
- Avoids mistakes in pneumatic/electrical connections
- Available with 8, 10 or 12 pneumatic interface
- 15 pins D-SUB electrical interface
- Robot side and Gripper side part are supplied separately
- CUDL Robot side can cut the air separately from the release lever

Article no.	Sensor with cable Optional	Weight
CA.CUDL.01	3 wires electronic PNP normally Open M8 plug connector	18 g
CA.CUDL.02	3 wires electroic NPN normally Open M8 plug connector	
CA.CUDL.03	2 wires electronic	

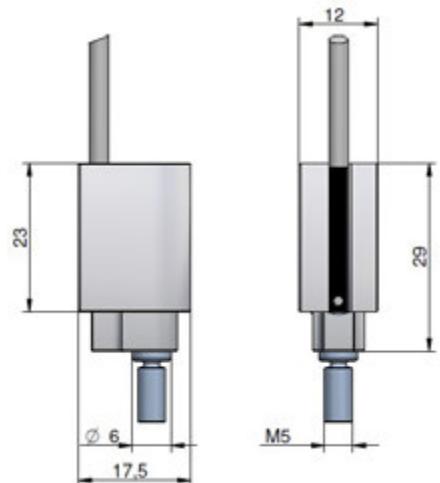
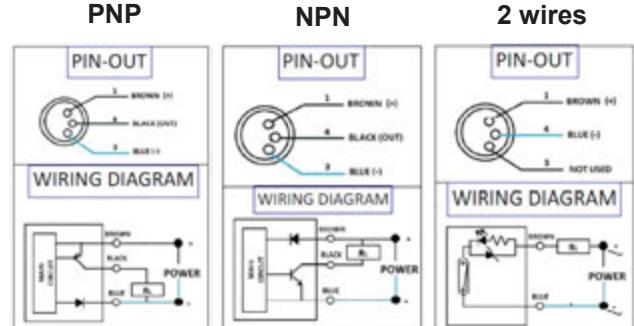
- Cambio rapido dell'attrezzatura sul robot
- Adatto anche per canalizzazioni in depressione
- Aiuta ad evitare problemi nelle connessioni pneumatiche/ elettriche
- Disponibile in 8, 10 o 12 connessioni pneumatiche
- Disponibile in 15 connessioni elettriche
- Lato mano e lato robot sono fornite separatamente
- La leva dell'aria può essere azionata in modo indipendente dalla leva di sgancio.

Article no.	F	Mt	Mb	Weight
CA.CUDL.90	RS/90	400 N	100 Nm	60 Nm
CA.CUDL.150	RS/150	1000 N	250 Nm	100 Nm
CA.CUDL.160	RS/160			...



After assembly it is possible to use the screw set in order to eliminate any play between the two sides with "zero tolerance"

Dopo l'unione è possibile coinvolgere il set viti, per eliminare ogni gioco tra i due lati con "tolleranza zero"

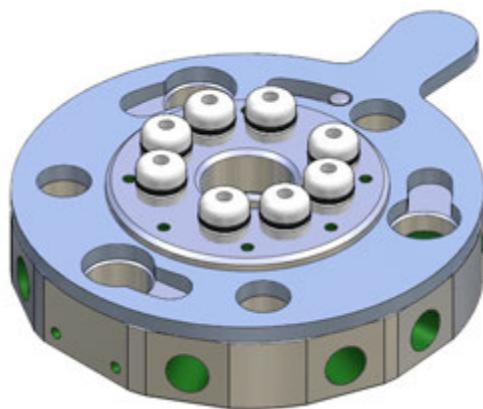


CA.01.01/CUSL

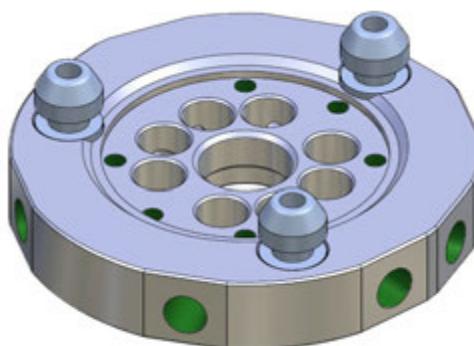
. Quick changer

. Cambia utensile

Robot side RS Lato Robot



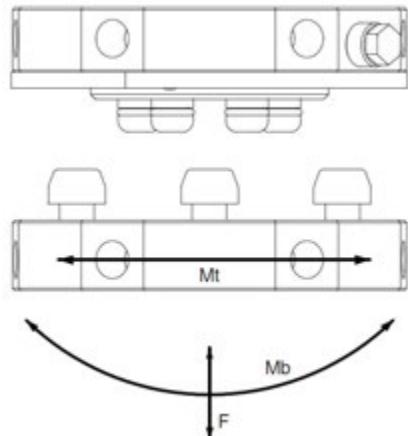
Gripper side GS Lato Mano



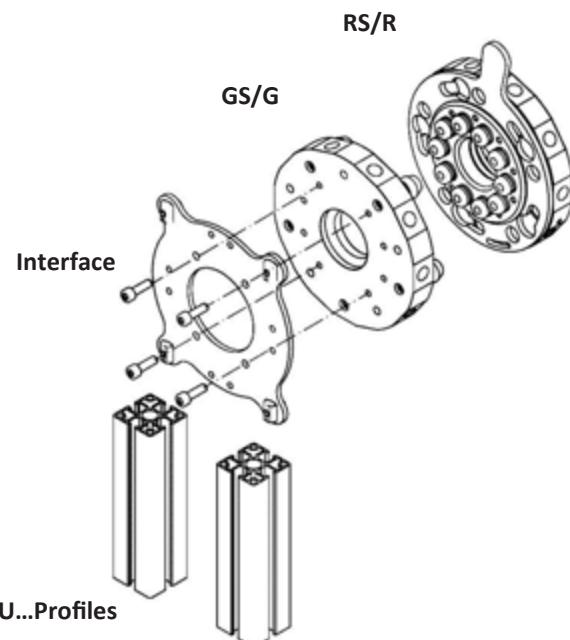
- Quick changer for easy replacement of EOAT on the robot
- Suitable for vacuum connectors as well
- Avoids mistakes in pneumatic/electrical connections
- Available with 8, 10 or 12 pneumatic interface
- 15 pins D-SUB electrical interface
- Robot side and Gripper side part are supplied separately

- Cambio rapido dell'attrezzatura sul robot
- Adatto anche per canalizzazioni in depressione
- Aiuta ad evitare problemi nelle connessioni pneumatiche/elettriche
- Disponibile in 8, 10 o 12 connessioni pneumatiche
- 15 connessioni elettriche
- Lato mano e lato robot sono fornite separatamente

Article no.	Model	F	Mt	Mb	Weight
CA.01.01.001	RS/90	400 N	100 Nm	60 Nm	317 g
CA.01.01.002	GS/90				225 g
CA.01.01.003	RS/150	1000 N	250 Nm	100 Nm	1156 g
CA.01.01.004	GS/150				842 g
CA.01.01.013	RS/160	2000 N	600 Nm	300 Nm	1218 g
CA.01.01.014	GS/160				922 g
CA.CUSL.200.R	RS/200	2000 N	600 Nm	300 Nm	2496 g
CA.CUSL.200.G	GS/200				1757 g

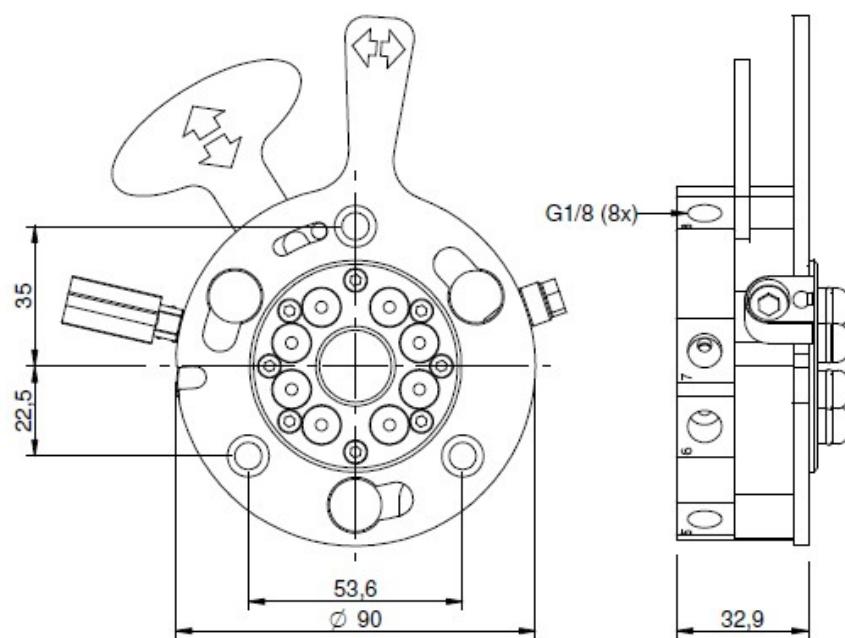


Application example / Esempio applicativo

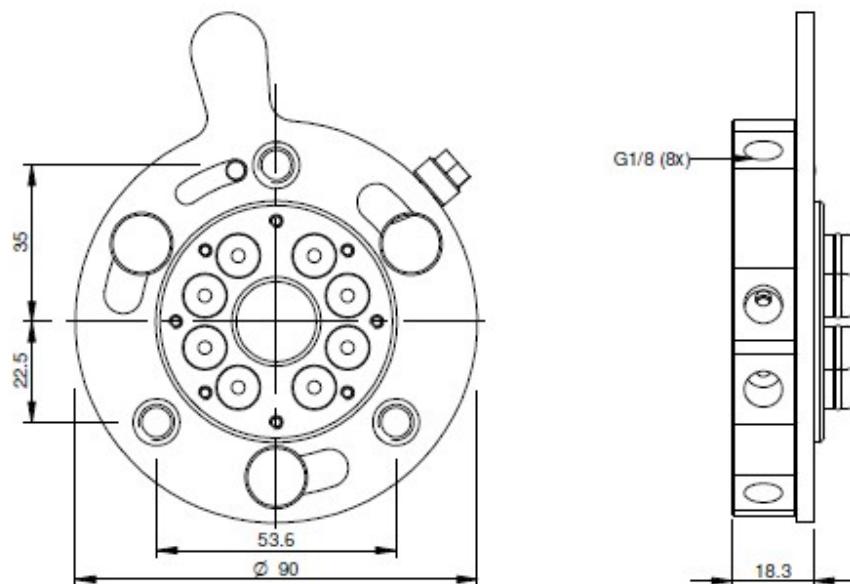
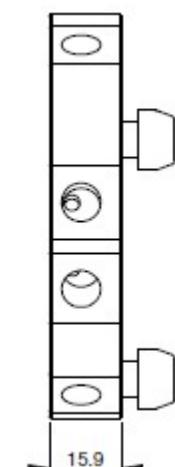
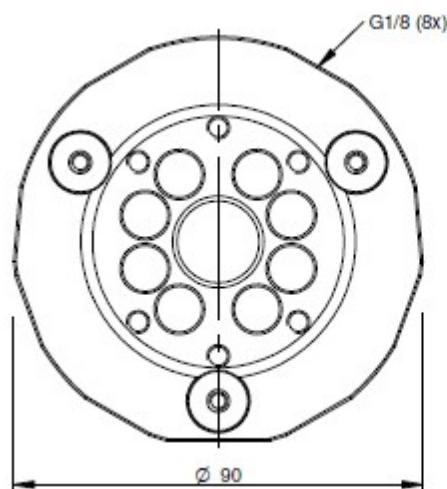


CA.CUDL.90
90

. Dimensions



. Dimensioni

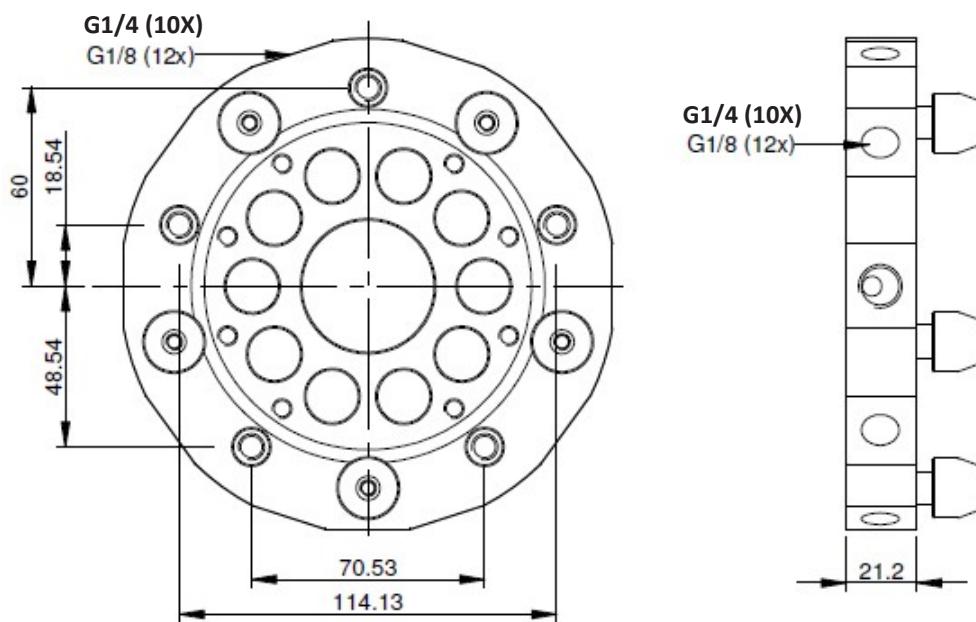
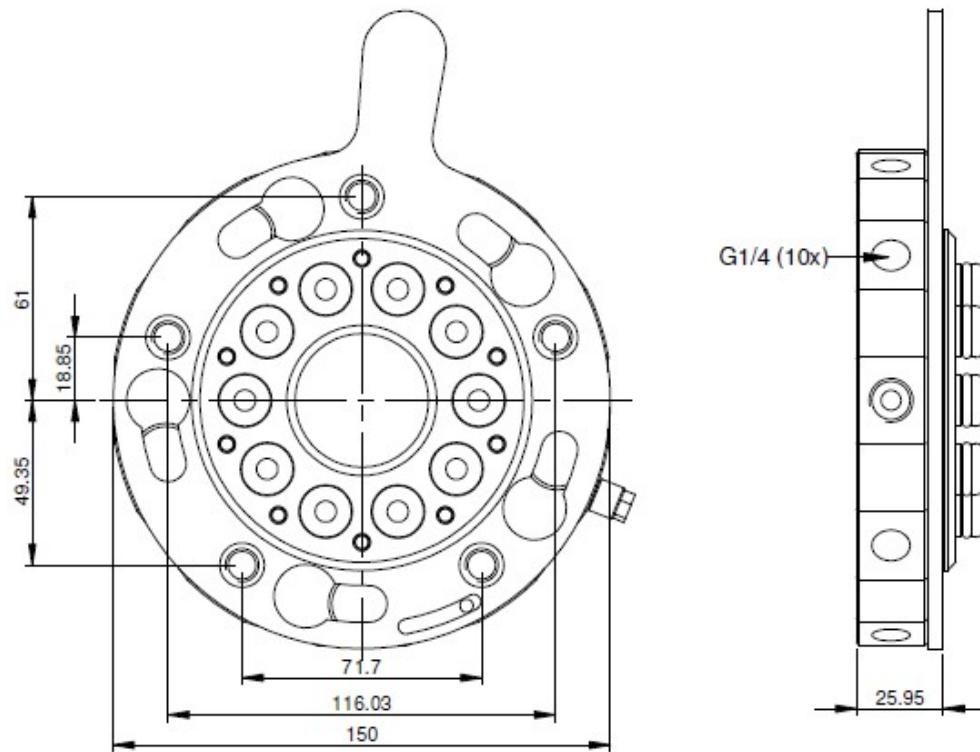

CA.01.01


CA.01.01

. Dimensions

150

. Dimensioni

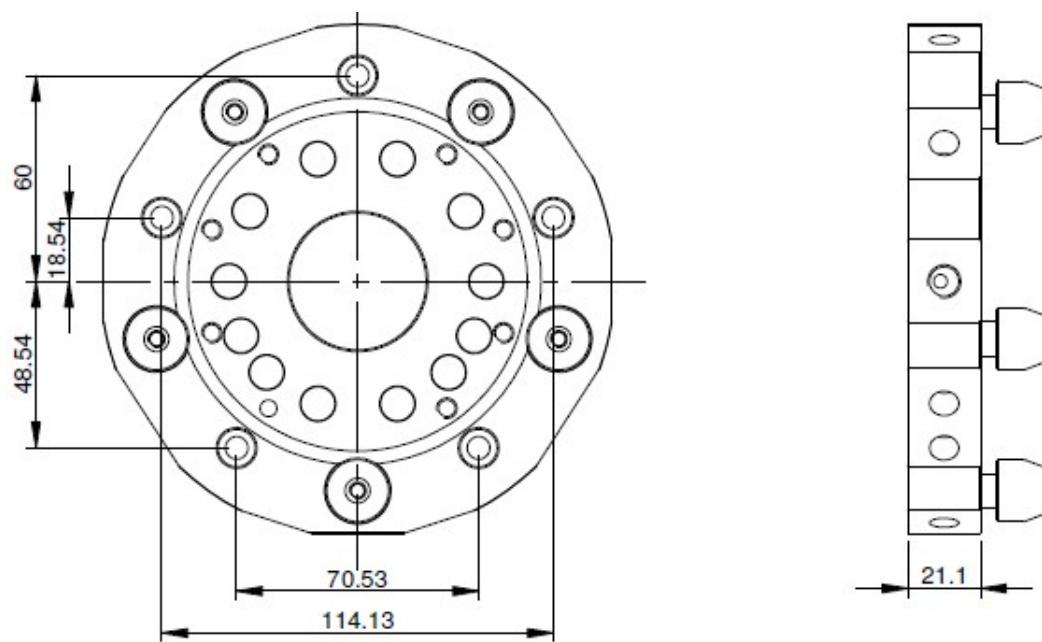
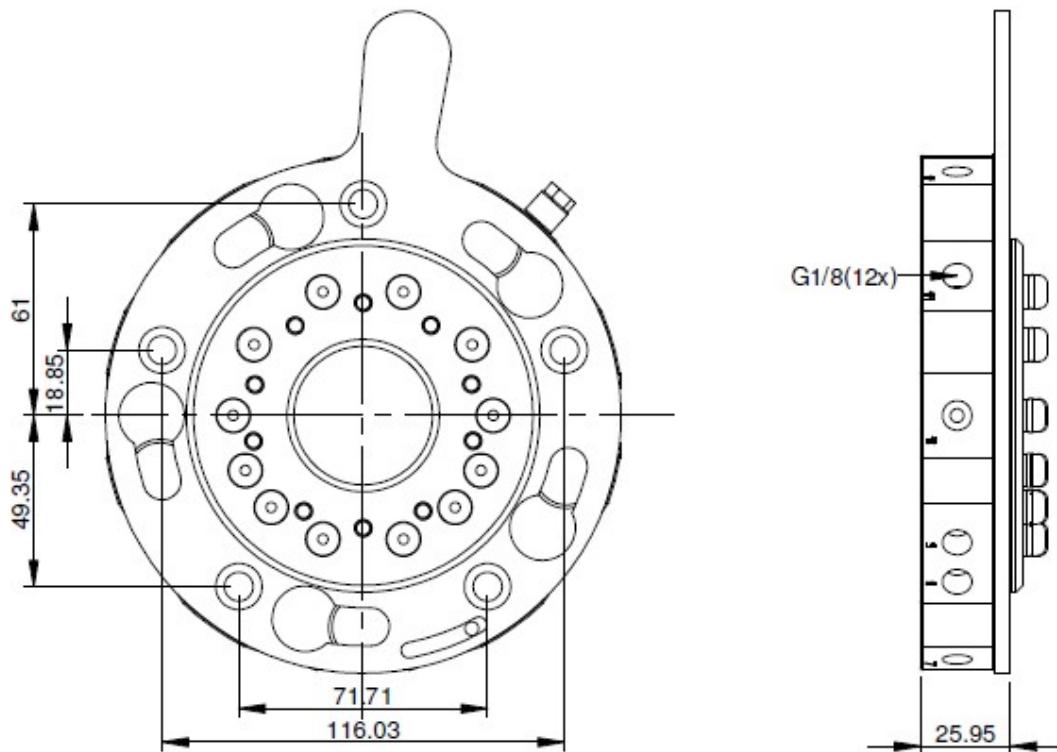


CA.01.01

. Dimensions

160

. Dimensioni



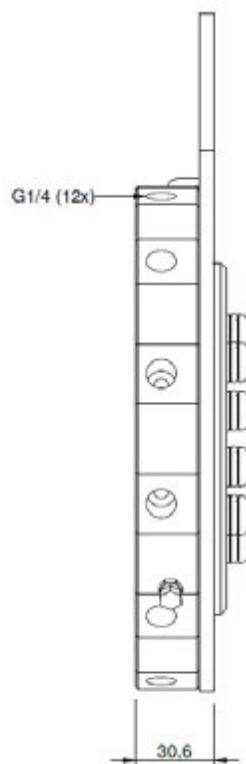
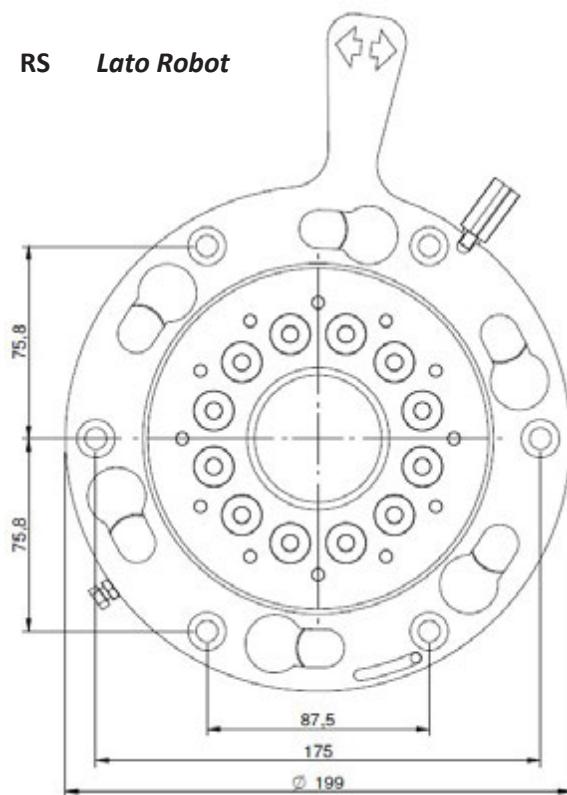
CA.CUSL.200.R/G

. Dimensions

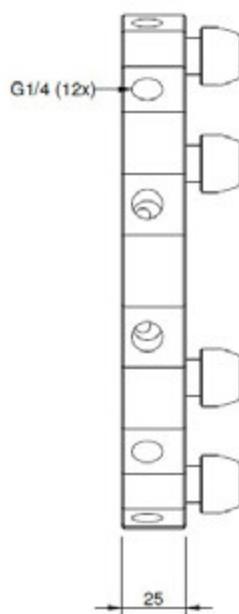
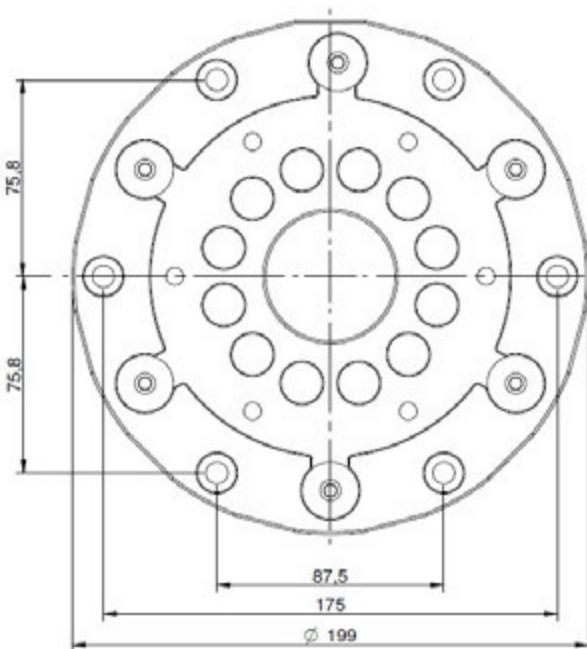
200

. Dimensioni

Robot side RS Lato Robot

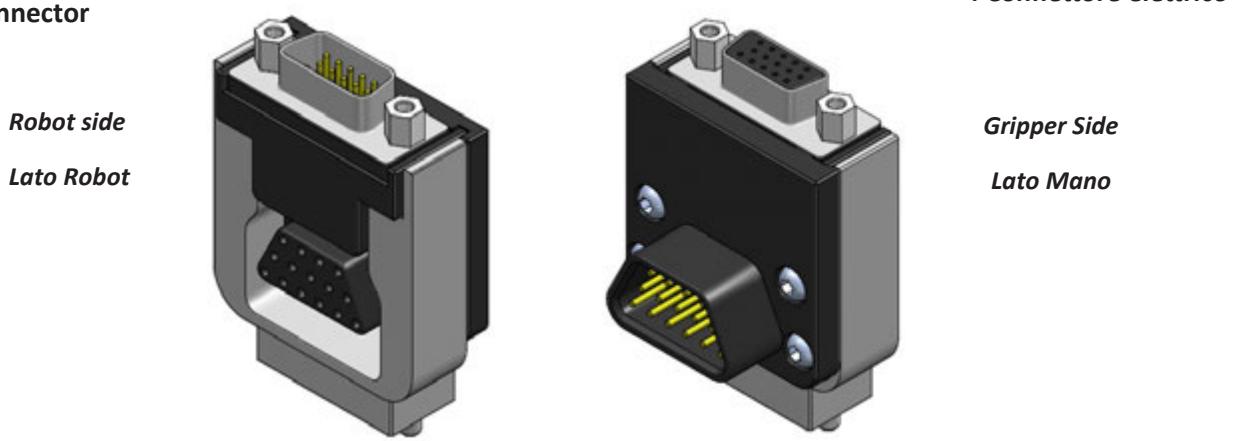


Gripper side GS Lato Mano



CA.01.01

. Electrical connector



- 15 pins Ø1 mm
- I/O quick change by VGA connector
- Self-cleaning sliding contacts
- The two parts are supplied separately:
CA.01.01.008 robot side
CA.01.01.009 gripper side

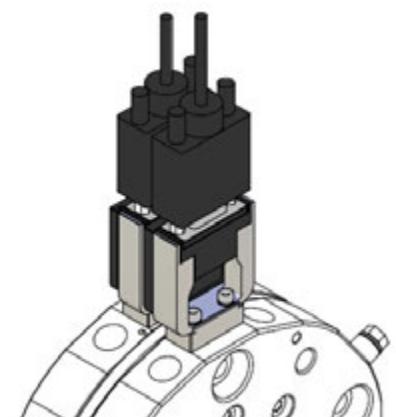
- 15 connessioni elettriche Ø1 mm
- Attacco rapido I/O attraverso connettore VGA
- Connessione a sfregamento autopulente
- Le due parti sono fornite separatamente:
CA.01.01.008 lato robot
CA.01.01.009 lato mano

Table / Tabella

M = Suitable for EOAT Groundplate CA.01.01...
Applicabile ad EOAT cambio utensile CA.01.01...

Article no.		
CA.01.01.008	Robot side	CA.01.01.001 CA.01.01.003 CA.01.01.013 CA.CUDL... CA.CUSL.200.R
CA.01.01.009	Gripper side	CA.01.01.002 CA.01.01.004 CA.01.01.014 CA.CUSL.200.G

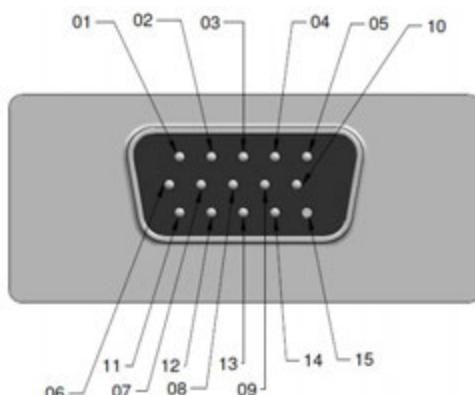
I/O connection type <i>I/O tipo di connessione</i>	15 pins D-SUB - High density elbow type - VGA type <i>15 pin D-SUB - Connnettore alta densità ad angolo retto - tipo VGA</i>
Maximum contact resistance <i>Massima resistenza del contatto</i>	30 mW @ 100 mA DC
Minimum insulation resistance <i>Minima resistenza di isolamento</i>	500 MW @ 500 V DC
Working Current <i>Corrente d'Esercizio</i>	3 A
Break down voltage <i>Tensione di Scarica</i>	1000 V AC (1 minute)
Temperature range <i>Temperatura d'Esercizio</i>	-55°C ÷ +105°C



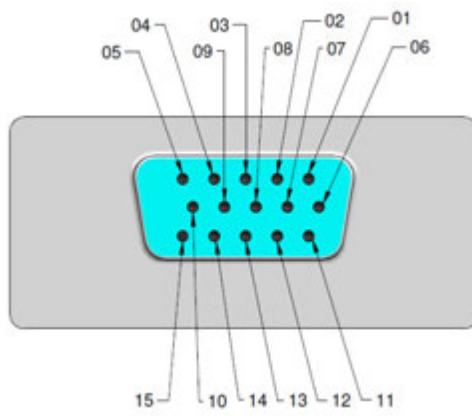
CA.01.01

. Cable

The male and female cables are supplied separately.
Il cavo femmina e il cavo maschio sono forniti separatamente.



Male cable

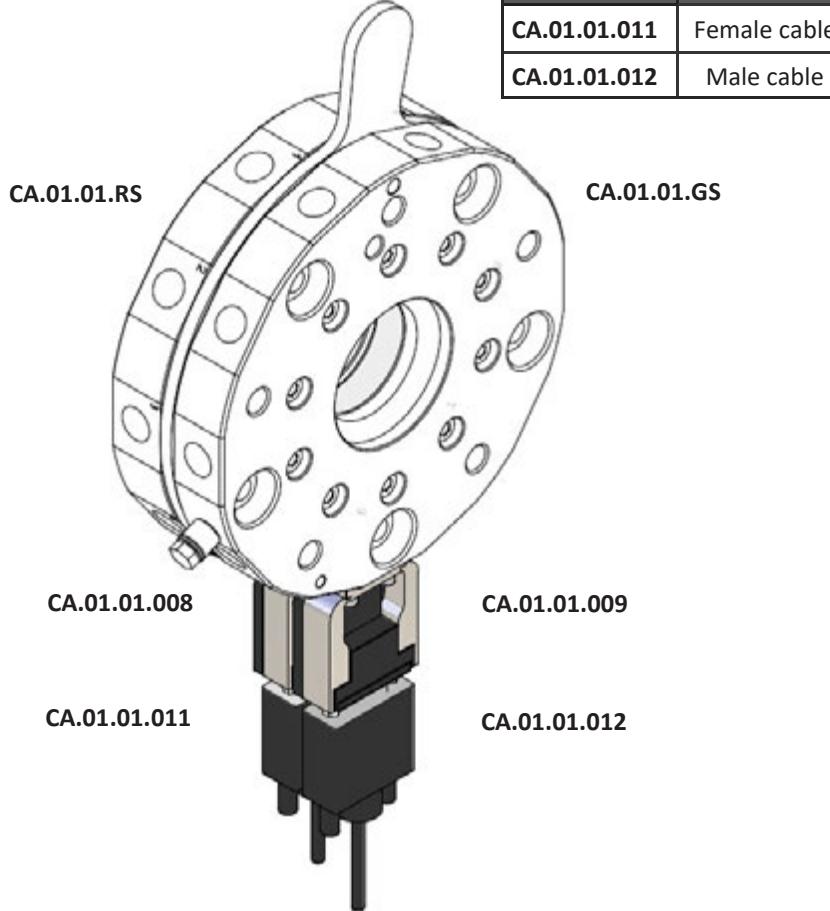


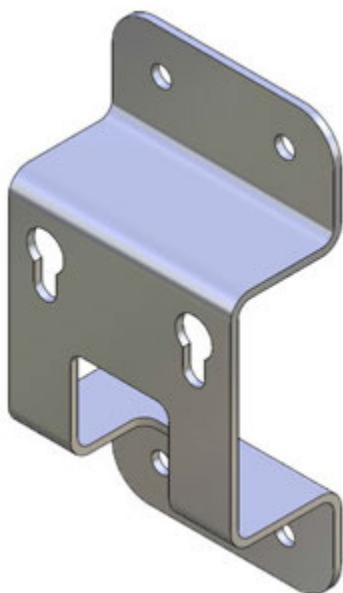
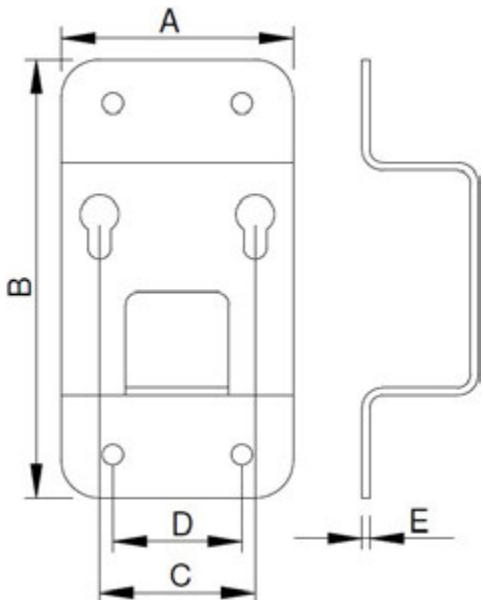
Female cable

- 15 pins Ø1 mm
- I/O quick change by VGA connector
- Self-cleaning sliding contacts
- The two parts are supplied separately

- 15 connessioni elettriche Ø1 mm
- Attacco rapido I/O attraverso connettore VGA
- Connessione a sfregamento autopulente
- Le due parti sono fornite separatamente

	Colour
01	BLUE
02	PURPLE
03	ORANGE
04	PINK
05	TURQUOISE
06	GREY
07	YELLOW
08	GREEN
09	RED
10	BROWN
11	BLACK
12	WHITE
13	YELLOW/RED
14	GREEN/BROWN
15	RED / BLUE



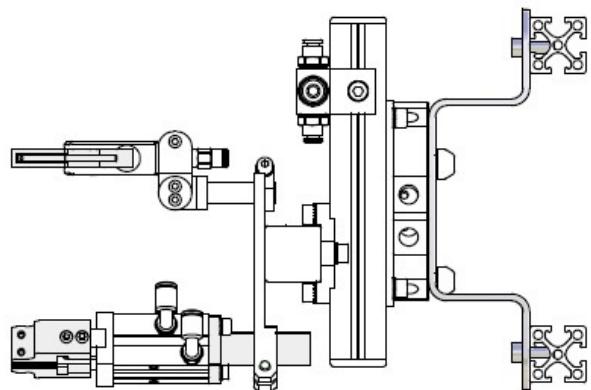
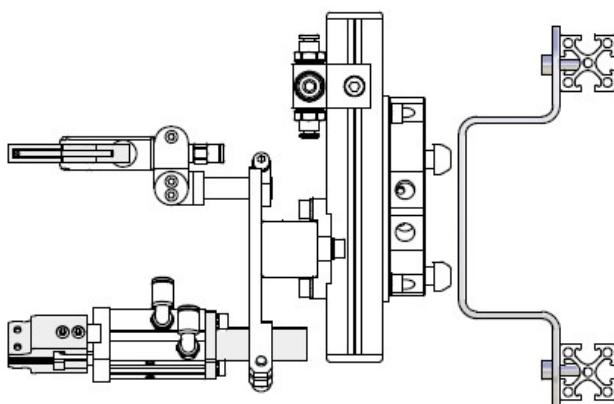
CA.01.01
. Holding Fixture

. Porta Mano

Table / Tabella
M = Suitable for ...
Applicabile a ...
Remarks / Osservazioni:

 Material : Steel
Materiale : Acciaio

Article no.	A	B	C	D	E	M	Weight
CA.01.01.015	90	170	60.3	50	3	CA.01.01.002 CA.CUDL.90	440 g
CA.01.01.016	150	230	71.7	90		CA.01.01.004 CA.01.01.014	926 g
CA.01.01.017	200	270	142.8	160		CA.CUSL.200.G	1188 g

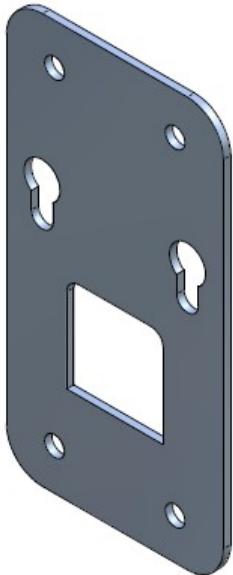
The holding fixture, once fixed to the wall or frame, is used to store your EOAT when it is not in function

Il porta mano può essere utilizzato con fissaggio su telaio o a muro per immagazzinare le vostre EOAT quando non sono in lavoro

Application examples / Esempi applicativi


CA.01.01

. Holding Fixture



. Porta Mano

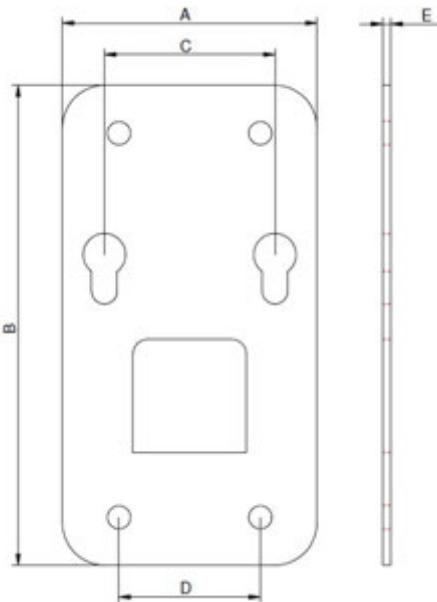


Table / Tabella

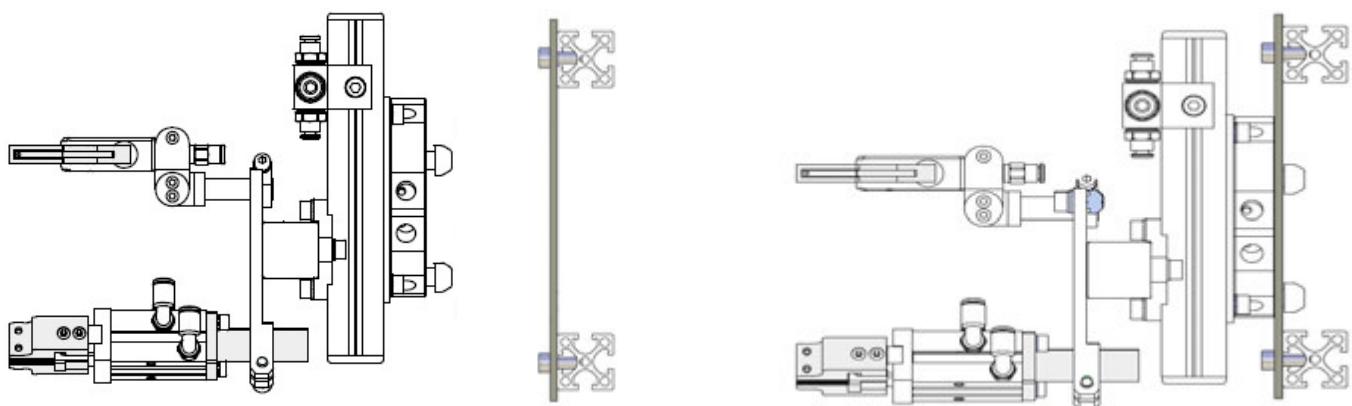
M = Suitable for ...
Applicabile a ...

Remarks / Osservazioni:

Material : Steel
Materiale : Acciaio

Article no.	A	M	B	C	D	E	Weight
CA.01.01.015.F	90	CA.01.01.002	170	60	50		307 g
CA.01.01.016.F	150	CA.01.01.004 CA.01.01.014	230	71	90	3	720 g
CA.01.01.017.F	200	CA.CUSL.200G	300	220	142.8		1398 g

Application example / Esempio applicativo



CA.01.01
L/X/JU

.b. Interface for CA.01.01

.b. Interfaccia per CA.01.01

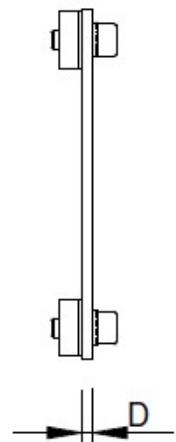
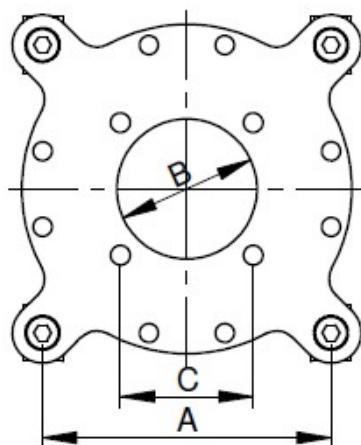
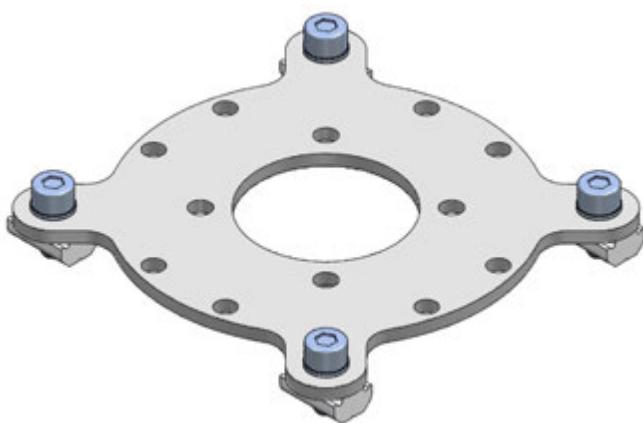


Table / Tabella
M = Suitable for ...
Applicable per...

Remarks / Osservazioni:
Material : Steel
Materiale : Acciaio

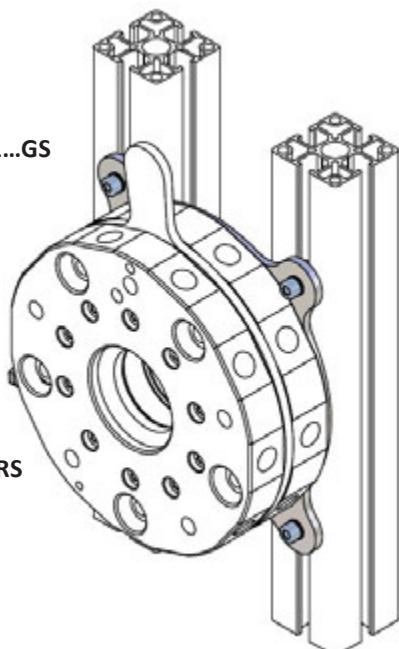
Article no.	A	B	C	D	M	Weight
CA.01.01.006	76	37	35	3	CA.01.01.002 CA.CUDL.90	170 g
CA.01.01.007	110	70	52	4	CA.01.01.004 CA.01.01.014	497 g
CA.CUSL.200.I	192	140	151.6	8	CA.CUSL.200.G	1850 g

Application example / Esempio applicativo

CA.L.../CA.X.../CA.JU...

CA.01.01...GS

CA.01.01...RS



Notes/*Note*

CA.01.02 (FP 60-90-120)
RS

. Quick changer (robot side)

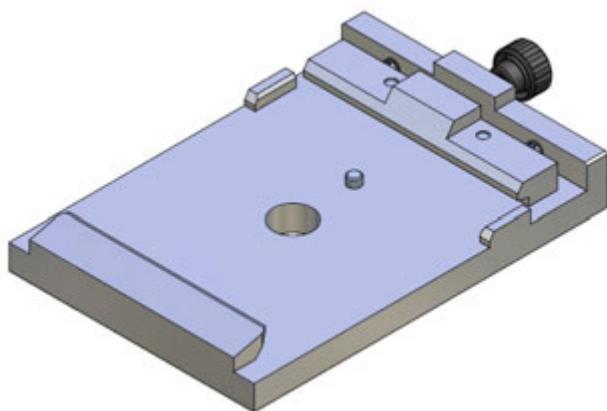


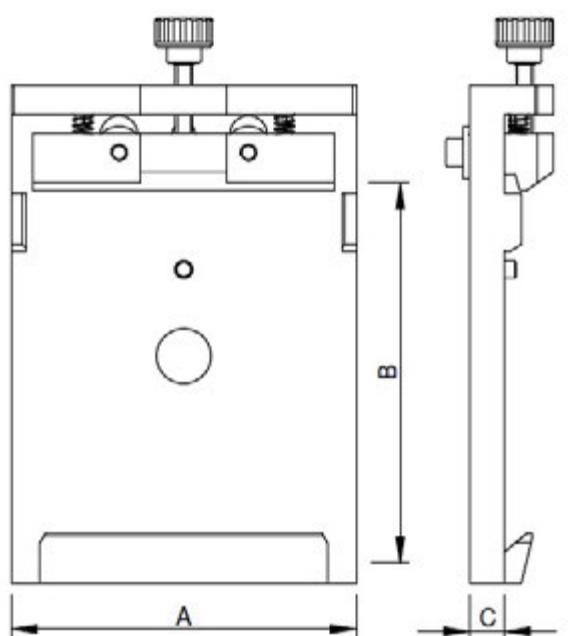
Table / Tabella

H = Handling weight as approx value
Peso approssimativo sostenuto in movimento

M = Suitable for EOAT Groundplate CA.01.02...
Applicabile ad EOAT piastra ammortizzata CA.01.02...

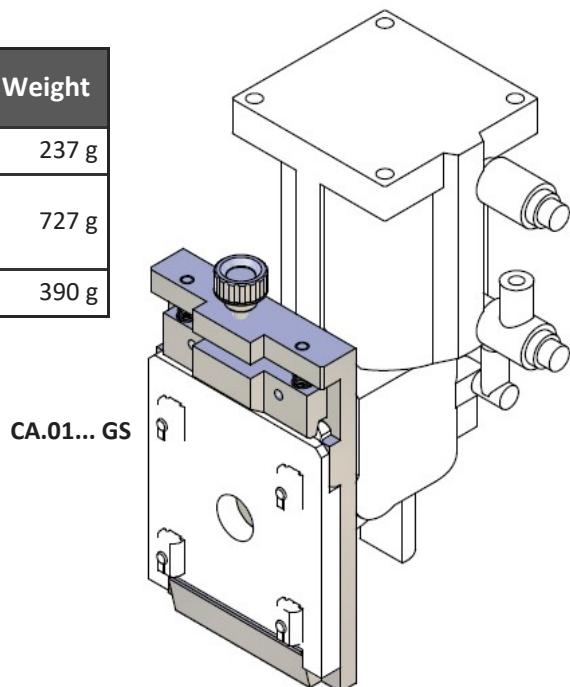
Remarks / Osservazioni :

Material / Materiali: Aluminium / Alluminio

 Surface: Silver anodized
Superficie: Argento anodizzato


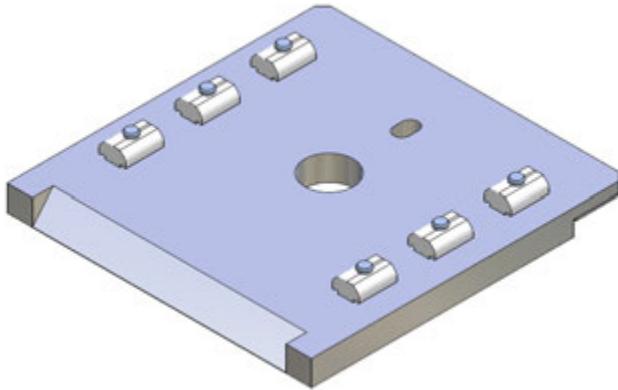
Article no.	A	B	C	H	M	Weight
CA.01.02.001	60	72	8	5 kg	CA.01.02.002	237 g
CA.01.02.003	120	130	12	20 kg	CA.01.02.004	727 g
CA.01.02.003B					CA.01.02.004A	
CA.01.02.007	90	108	8	10 kg	CA.01.02.008	390 g

Application example / Esempio applicativo



CA.01.02 (FP 60-90-120)**GS**

. Quick changer (gripper side)



. Cambia Utensile (lato mano)

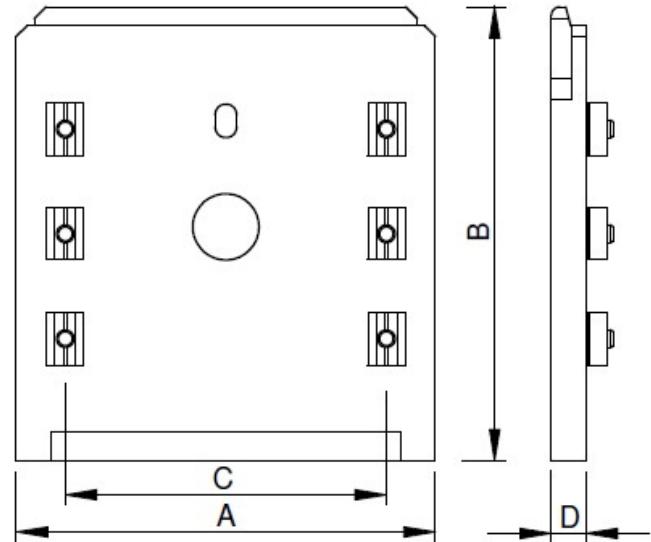


Table / Tabella

M = Suitable for EOAT Groundplate CA.01.02...
Applicabile ad EOAT piastra CA.01.02...

M1 = Suitable for Profile
Adatto per Profili

Remarks / Osservazioni:

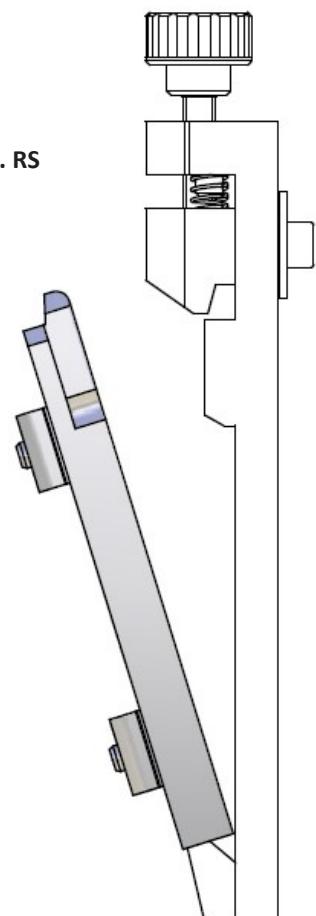
Material / Materiali: Aluminium /Alluminio

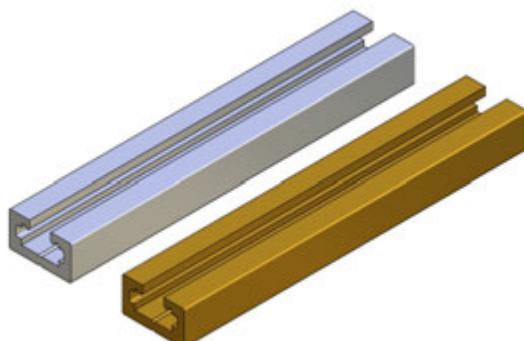
Surface: Silver anodized
Superficie: Argento anodizzato

Article no.	A	B	C	D	M	M1	Weight
CA.01.02.002	60	72	20	10	CA.01.02.001	...	93 g
CA.01.02.002.X						L/X	130 g
CA.01.02.004	120	130	92	10	CA.01.02.003	...	377 g
CA.01.02.004.X						L/X/JU	432 g
CA.01.02.004A	90	108	62	10	CA.01.02.003B	...	371 g
CA.01.02.004A.X						L/X/JU	426 g
CA.01.02.008	90	108	62	10	CA.01.02.007	...	225 g
CA.01.02.008.X						L/X	262 g

Application example / Esempio applicativo

CA.01... RS



CA.02 L
. Profile L.1810


Surface: Aluminium anodized
 Superficie: Alluminio anodizzato

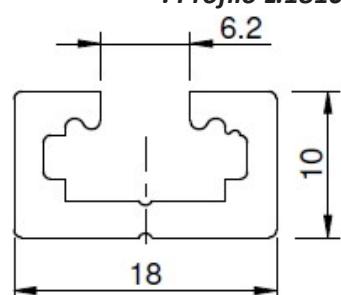
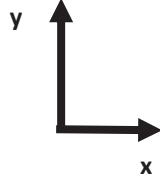
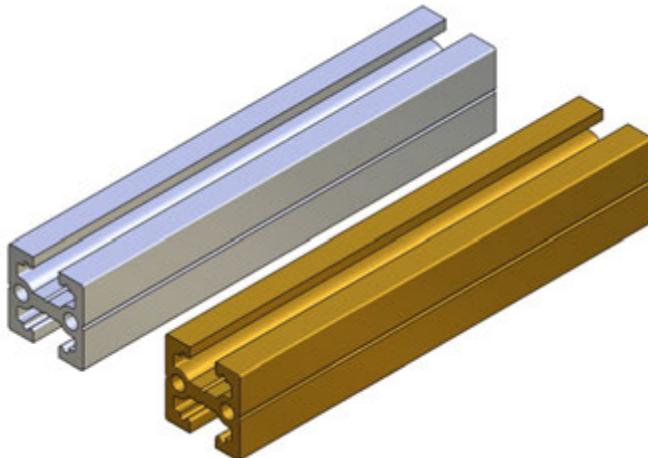
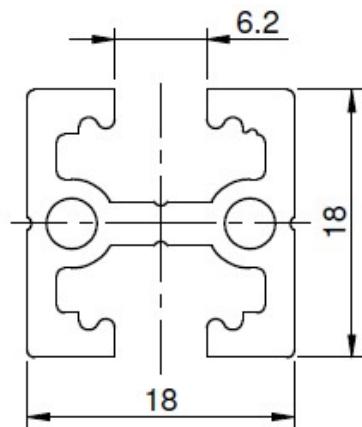
L
. Profilo L.1810


Table / Tabella
 L = Length
 Lunghezza

M = T-Nut
 Tassello

M1 = Caps
 Calotta

Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.L.1810.1000	Silver	1060	3820	1 m	CA.GWP	CA.ADK.L.1810	267 g
CA.L.1810.1000G	Gold			2 m			534 g
CA.L.1810.2000	Silver						
CA.L.1810.2000G	Gold						

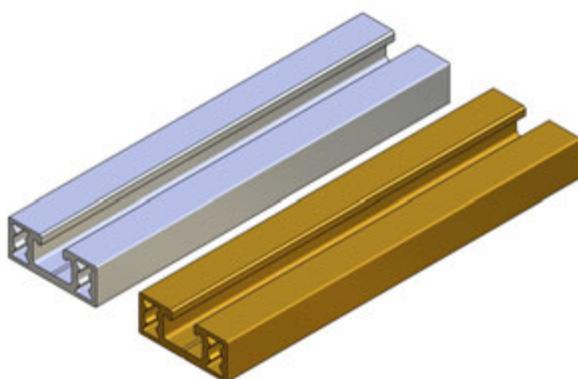
. Profile L.1818

. Profilo L.1818


Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.L.1818.1000	Silver	4360	6230	1 m	CA.GWP	CA.ADK.L.1818	410 g
CA.L.1818.1000G	Gold			2 m			820 g
CA.L.1818.2000	Silver						
CA.L.1818.2000G	Gold						

CA.02 X

X

. Profile X.2510



New

Surface: Aluminium anodized
Superficie: Alluminio anodizzato

. Profilo X.2510

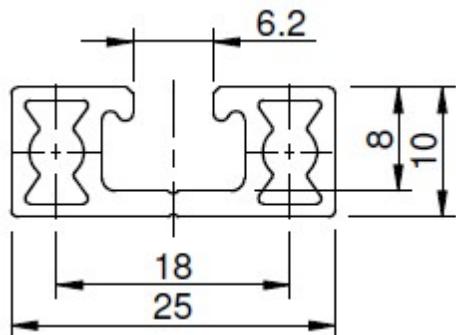


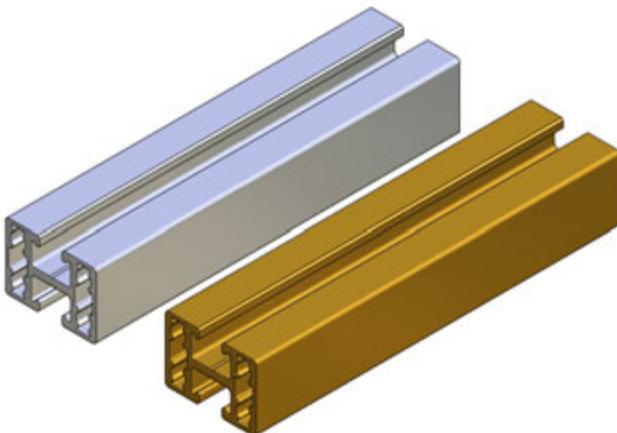
Table / Tabella
L = Length
Lunghezza

M = T-Nut
Tassello

M1 = Caps
Calotta

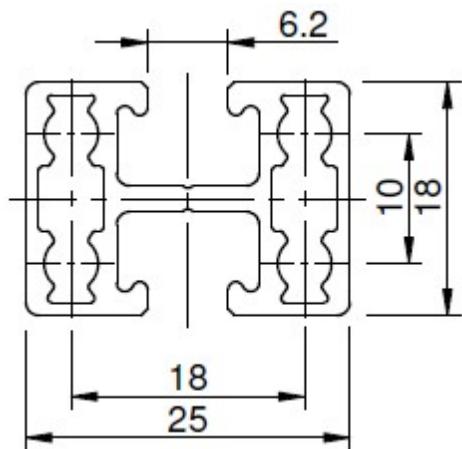
Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.X.2510.1000	Silver	1300	7280	1 m	CA.GWP	CA.ADK.X.2510	290 g
CA.X.2510.1000G	Gold			2 m			580 g
CA.X.2510.2000	Silver						
CA.X.2510.2000G	Gold						

. Profile X.2518

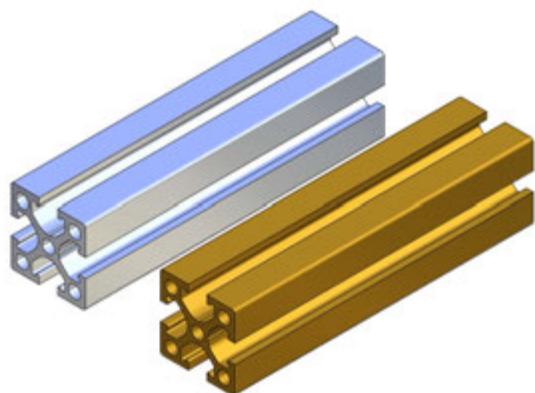


y
x

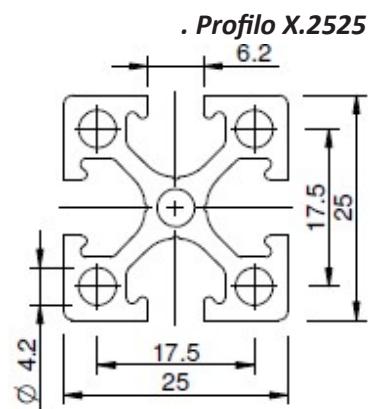
. Profilo X.2518



Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.X.2518.1000	Silver	5600	11500	1 m	CA.GWP	CA.ADK.X.2518	400 g
CA.X.2518.1000G	Gold			2 m			800 g
CA.X.2518.2000	Silver						
CA.X.2518.2000G	Gold						

CA.02 X
. Profile X.2525


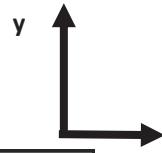
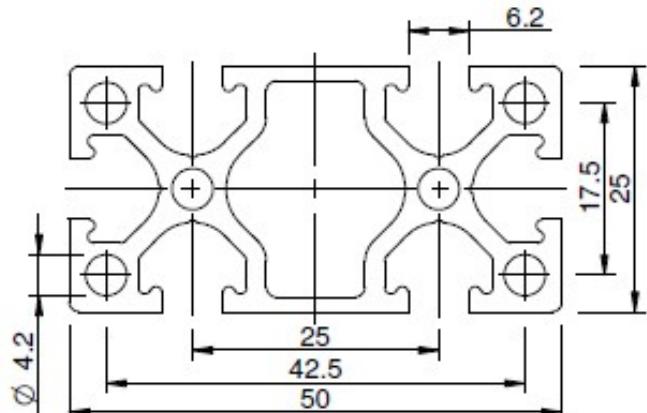
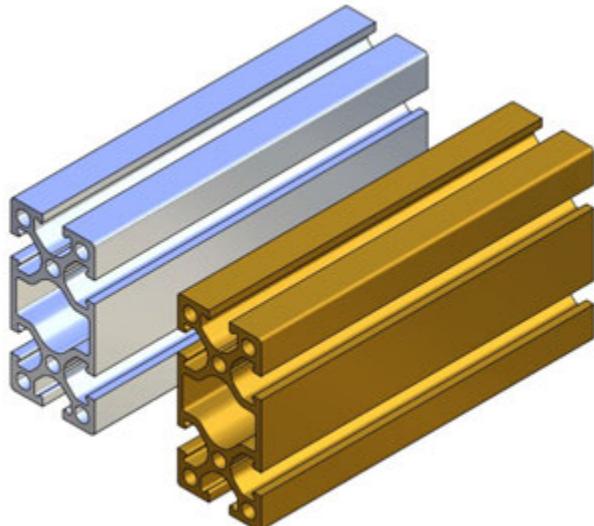
New



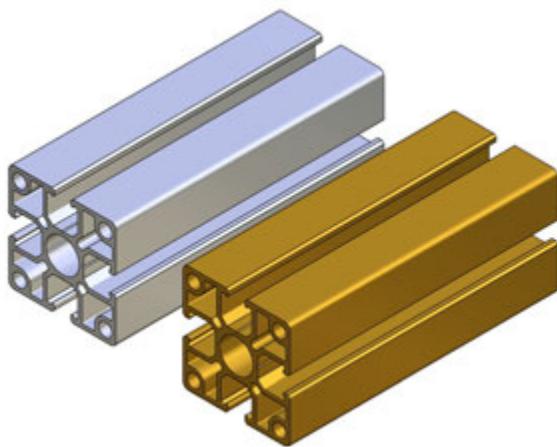
Surface: Aluminium anodized
 Superficie: Alluminio anodizzato

Table / Tabella
 L = Length
 Lunghezza
 M = T-Nut
 Tassello
 M1 = Caps
 Calotta

Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.X.2525.1000	Silver						
CA.X.2525.1000G	Gold						
CA.X.2525.2000	Silver	16260	16260	1 m	CA.GWP	CA.ADK.X.2525	683 g
CA.X.2525.2000G	Gold			2 m			1366 g

. Profile X.5025
. Profilo X.5025


Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.X.5025.1000	Silver						
CA.X.5025.1000G	Gold						
CA.X.5025.2000	Silver	28800	111100	1 m	CA.GWP	CA.ADK.X.5025	1050 g
CA.X.5025.2000G	Gold			2 m			2100 g

CA.02 JU**JU****. Profile JU.4040****New**

Surface: Aluminium anodized
Superficie: Alluminio anodizzato

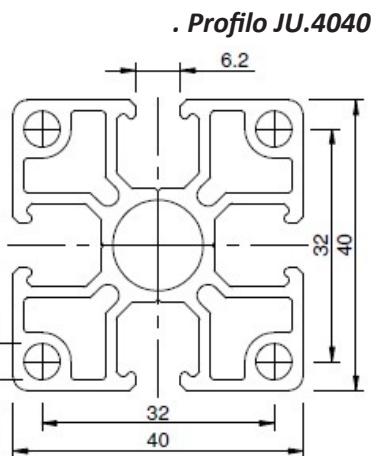


Table / Tabella

L = Length

Lunghezza

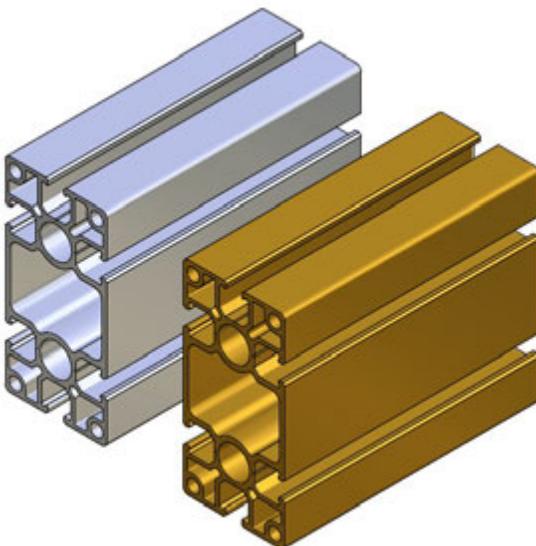
M = T-Nut

Tassello

M1 = Caps

Calotta

Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.JU.4040.1000	Silver	86200	86200	1 m	CA.GWP	CA.ADK.JU.4040	1408 g
CA.JU.4040.1000G	Gold			2 m			2816 g
CA.JU.4040.2000	Silver						
CA.JU.4040.2000G	Gold						

. Profile JU.8040**. Profilo JU.8040**

Article no.		I _x [mm ⁴]	I _y [mm ⁴]	L	M	M1	Weight
CA.JU.8040.1000	Silver	155400	587050	1 m	CA.GWP	CA.ADK.JU.8040	2303 g
CA.JU.8040.1000G	Gold			2 m			4606 g
CA.JU.8040.2000	Silver						
CA.JU.8040.2000G	Gold						

CA.02 ADK

. Profile end cap

L/X/JU

. Tappo Profilo

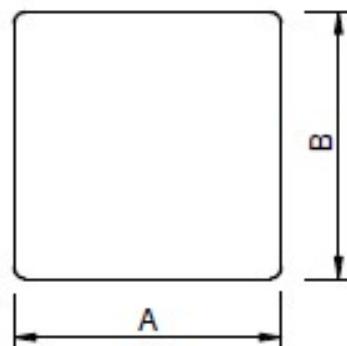
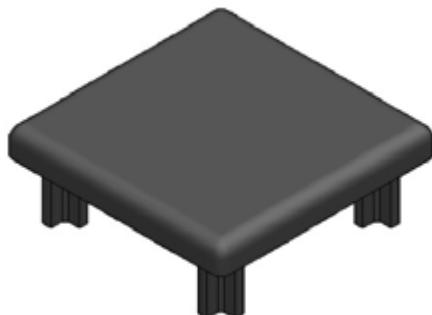


Table / Tabella

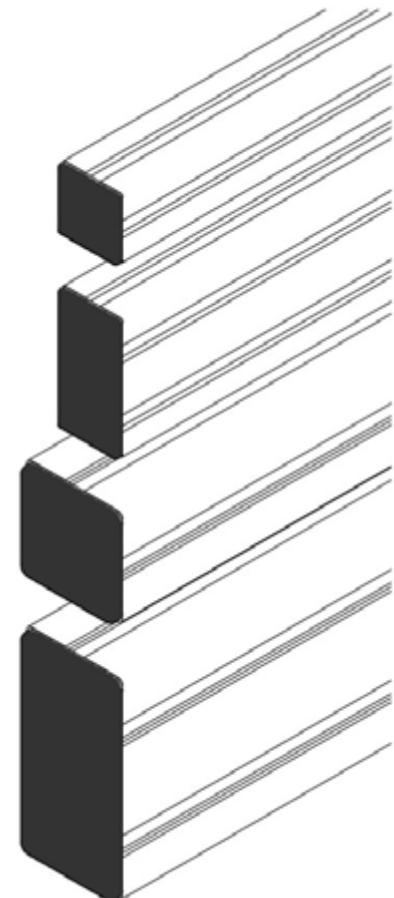
M = Suitable for Profiles
Applicabile ai profili

Remarks / Osservazioni:

Shipping unit: VE = 10 pieces
Unità per ogni invio VE = 10 pezzi

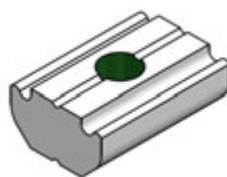
Material / Materiali: PP / Polipropilene

Article no.	A	B	M	Weight
CA.ADK.L.1810	18	10	CA.L.1810...	2 g x 10
CA.ADK.L.1818		18	CA.L.1818...	
CA.ADK.X.2510	25	10	CA.X.2510...	3 g x 10
CA.ADK.X.2518		18	CA.X.2518...	
CA.ADK.X.2525	50	25	CA.X.2525...	4 g x 10
CA.ADK.X.5025		40	CA.X.5025...	
CA.ADK.JU.4040	40	40	CA.JU.4040...	7 g x 10
CA.ADK.JU.8040	80		CA.JU.8040	13 g x 10



CA.02 GWP

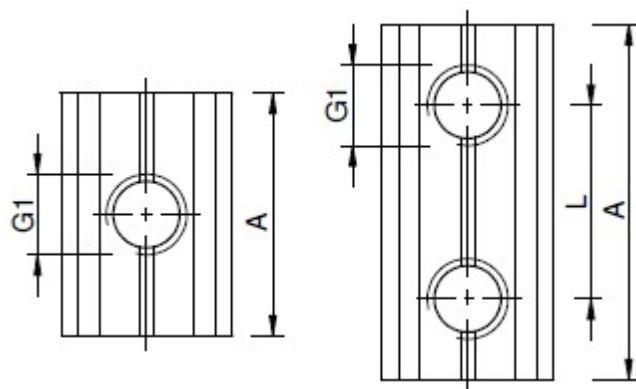
. T-Nut



Suitable for Profiles L/X/JU
Applicabile ai Profili L/X/JU

L/X/JU

. Tassello per Profilo



Article no.	G1	L	A	Weight
CA.GWP.3U	M3	...	15	6 g

Article no.	G1	L	A	Weight
CA.GWP.4U	M4	...	15	6 g
CA.GWP.4.8		8	16	
CA.GWP.4.9		9	19	
CA.GWP.4.16		16	24	
CA.GWP.4.17		17	25	
CA.GWP.4.25		25	32	
CA.GWP.4.LM		...	10	

New

Article no.	G1	L	A	Weight	
CA.GWP.5U	M5	...	15	6 g	
CA.GWP.5.9		9	18		
CA.GWP.5.10		10	18		
CA.GWP.5.11		11	19		
CA.GWP.5.12		12	22		
CA.GWP.5.15		15	25		
CA.GWP.5.17		17			
CA.GWP.5.20		20	30		
CA.GWP.5.22		22	32		
CA.GWP.5.25		25	33		
CA.GWP.5.25.3		25 x 2	58		
CA.GWP.5.28		28	38		
CA.GWP.5.30		30	40		
CA.GWP.5.35		35	45		
CA.GWP.5.38		38	48		
CA.GWP.5.40		40			
CA.GWP.5.40.3		48	88		
CA.GWP.5.50		50	58		
CA.GWP.5.52		52	64		
CA.GWP.5.60		60	68		
CA.GWP.5.75		75	83		
CA.GWP.5.LM		...	10	3 g	

New

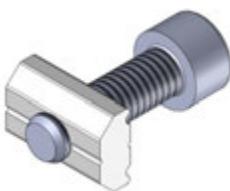
Article no.	G1	L	A	Weight
CA.GWP.6U	M6	...	15	4 g
CA.GWP.6.12		12	24	8 g
CA.GWP.6.16		16	26	9 g
CA.GWP.6.20		20	30	11 g
CA.GWP.6.22		22	32	12 g
CA.GWP.6.25		25	35	13 g
CA.GWP.6.25.3		58	22 g	
CA.GWP.6.28		28	40	15 g
CA.GWP.6.35		35	45	17 g
CA.GWP.6.40		40	50	19 g
CA.GWP.6.50		50	60	24 g
CA.GWP.6.52		52	64	25 g
CA.GWP.6.90		90	100	40 g
CA.GWP.6.LM		...	10	2 g

New

Material : Steel galvanized
Materiale: Acciaio zincato

Article no.	L	Weight
CA.GWP.500	500	212g
CA.GWP.1000	1000	420 g



CA.02 SV - UVV
X/JU
. Butt Connector

SV

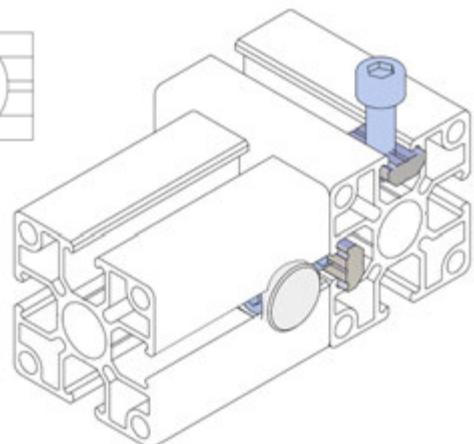
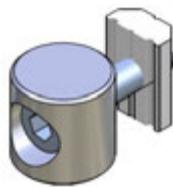
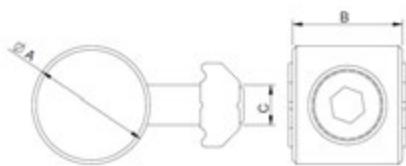
. Connessione Profilo


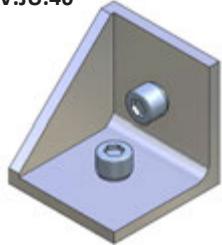
Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

UVV


Remarks / Osservazioni:

Shipping unit: VE = 10 pieces
Unità per ogni invio VE = 10 pezzi

Material : Steel galvanized
Materiale: Acciaio zincato

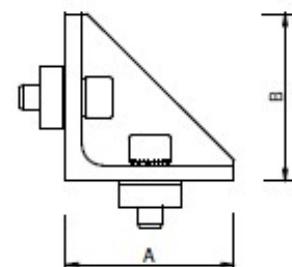
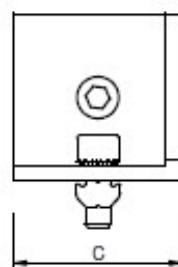
CA.02 WIV
. Corner Connector
. Connessione angolare
CA.WIV.JU.40

CA.WIV.X.25.0

CA.WIV.X.50.25

CA.WIV....E or M

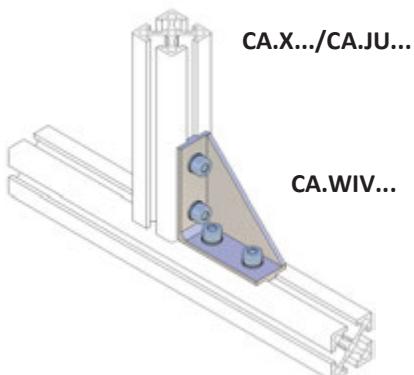

Remarks / Osservazioni:

Material /Materiali:
Aluminium / Alluminio

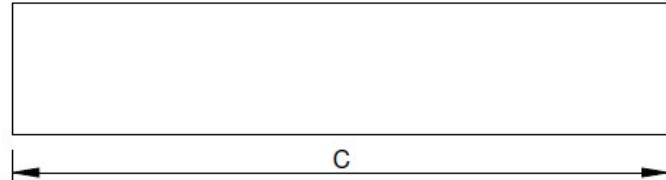
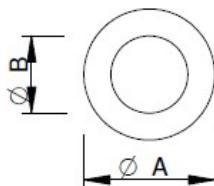
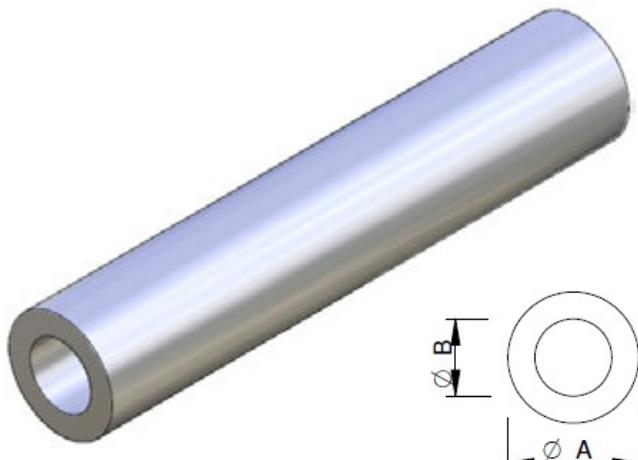
Surface: Silver anodized
Superficie: Argento Anodizzato


Application example / Esempio applicativo

Article no.	A	B	C	M	Weight
CA.WIV.X.25.0	22	22			28 g
			16		80 g
CA.WIV.X.50.25	50	50		X	21 g
					51 g
CA.WIV.X.25.M	18	18		18	60 g
					68 g
CA.WIV.X.25.E	38	38		JU	184 g
CA.WIV.JU.40	40	40	40		
CA.WIV.JU.40.E	38	38	38		
CA.WIV.JU.80.E	78	78	37		

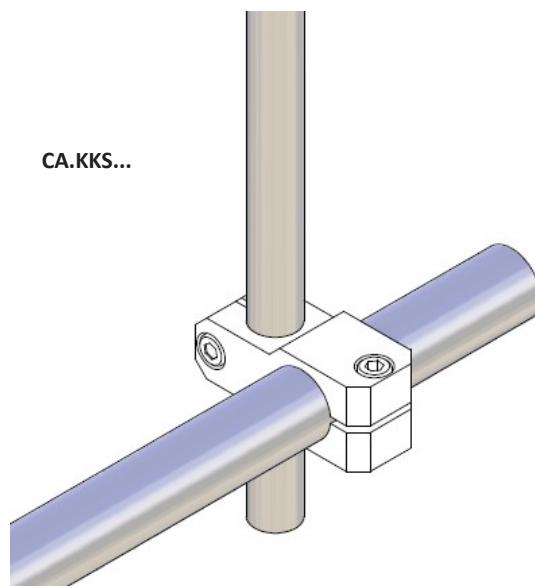
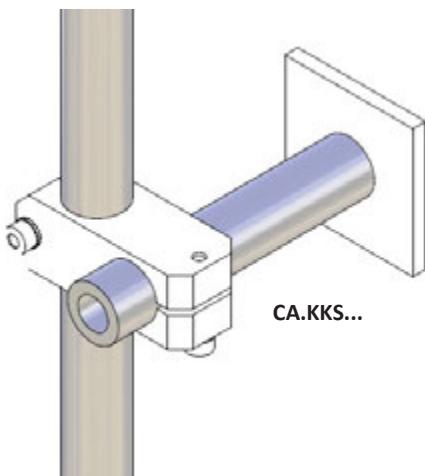


Notes/*Note*

CA.02 GAR
Ø 10-14-20-30
. Round profile tube
. Tubo Alluminio

Remarks / Osservazioni :
Material /Materiali:
Aluminium /Alluminio

Surface: Silver anodized
Superficie: Argento Anodizzato

Article no.	A	B	C	Weight
CA.GAR.10.1000	10	5	1000	160 g
CA.GAR.14.1000	14	7		313 g
CA.GAR.20.1000	20	12		545 g
CA.GAR.30.1000	30	26		477 g

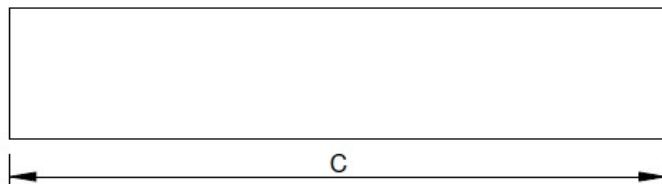
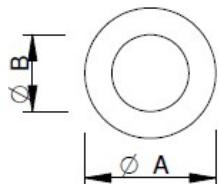
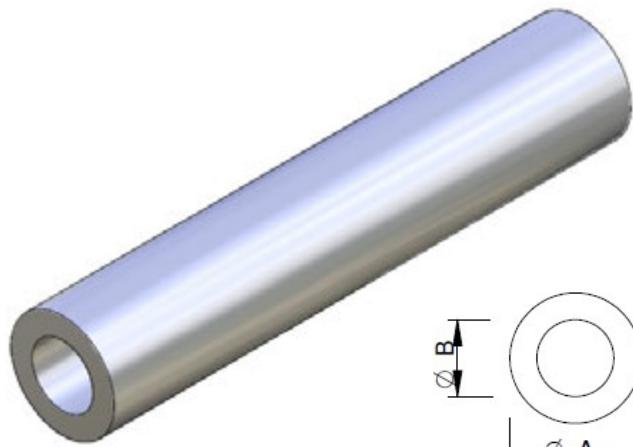
Application examples / Esempi applicativi


CA.02 PAT

Ø 25-40

. Round profile tube

. Tubo Alluminio



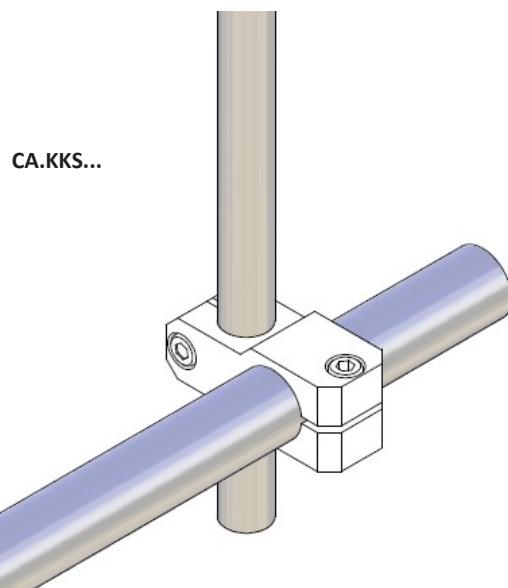
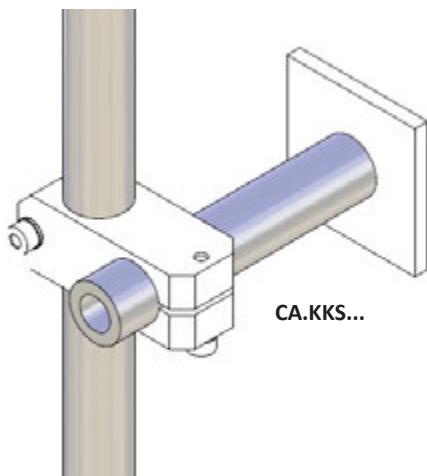
Remarks / Osservazioni :

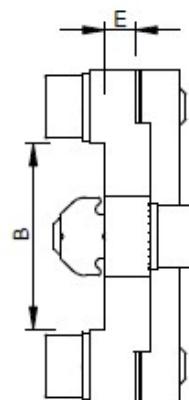
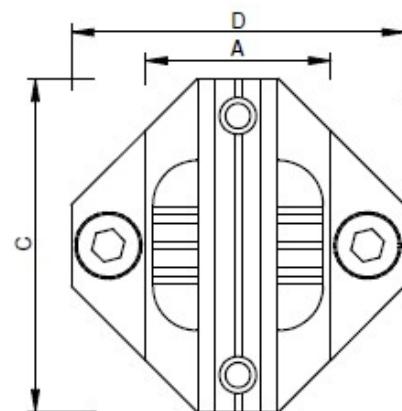
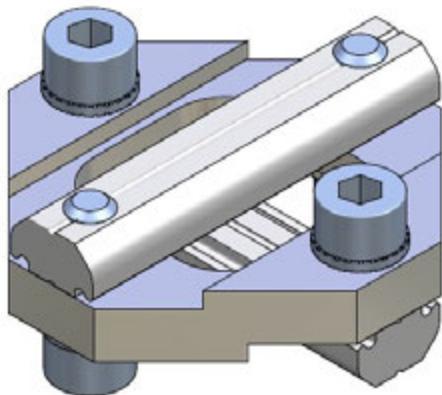
Material /Materiali:
Aluminium /Alluminio

Surface: Silver anodized
Superficie: Argento Anodizzato

Article no.	A	B	C	Weight
CA.PAT.25X3.2000	25	22	2000	1100 g
CA.PAT.25X5.2000		20		1200 g
CA.PAT.40X3.2000	40	37		800 g
CA.PAT.40X5.2000		35		1000 g

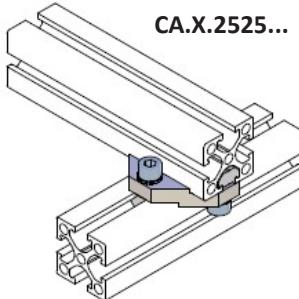
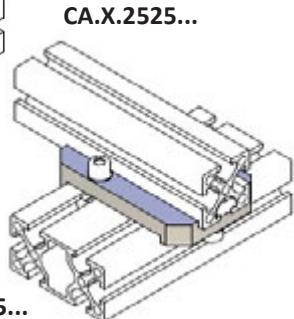
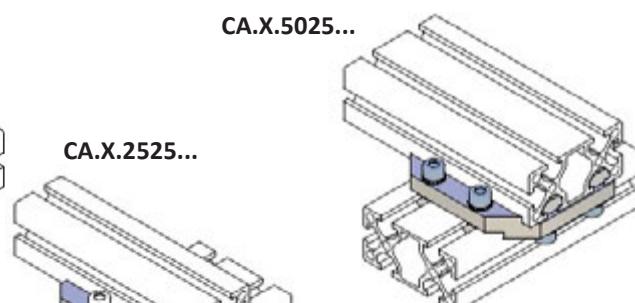
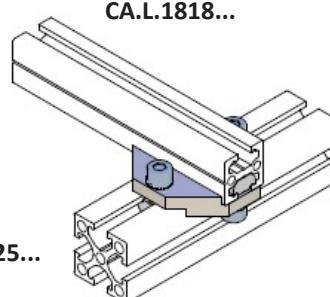
Application examples / Esempi applicativi



CA.03 KPL
L/X/JU
. Cross Joint Connector

Table / Tabella
M = Suitable for Profiles
Applicabile ai Profili
Remarks / Osservazioni :
Material /Materiale:
 Aluminium /Alluminio

Surface: Silver anodized
Superficie: Argento Anodizzato

Article no.	A	B	C	D	E	M	Weight
CA.KPLL.1818	18	18	38	38		L	55 g
CA.KPLX.2518	25		45			L/X	72 g
CA.KPLX.2525		25	45	45			67 g
CA.KPLX.5025	50			70		X	76 g
CA.KPLX.5050		50	70				192 g
CA.KPLJU.4040	40	40	65	65		JU	81 g
CA.KPLJU.4025		25	45			JU/X	77 g
CA.KPLJU.8040	80	40	100	60			156 g
CA.KPLJU.8080		80		100		JU	268 g

Application examples / Esempi applicativi

CA.X.2525...

CA.X.2525...

CA.X.5025...

CA.L.1818...
CA.X.2525...
CA.X.5025...
CA.X.2525...

CA.03 KBV

. Square Joint Connector

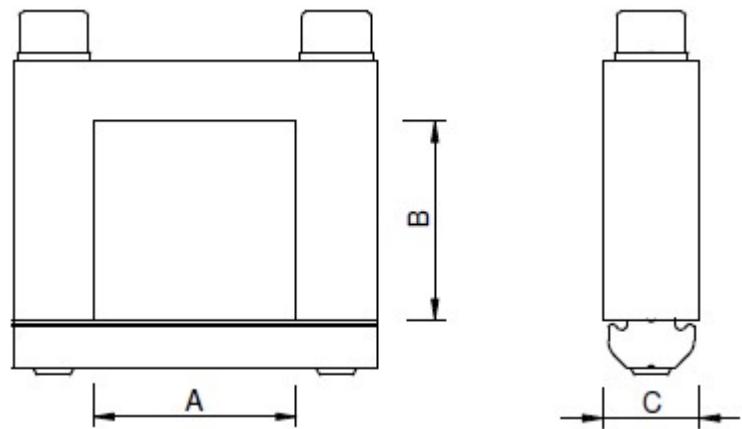
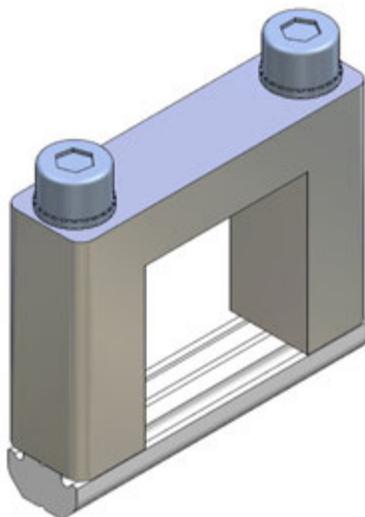


Table / Tabella

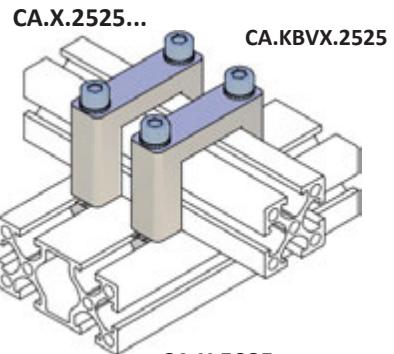
M = Suitable for Profiles
Applicabile ai profili

Remarks / Osservazioni:

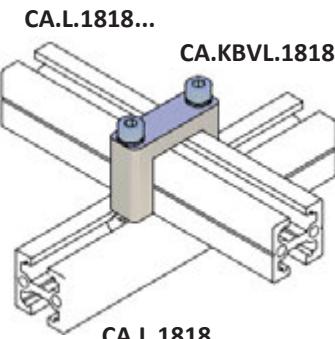
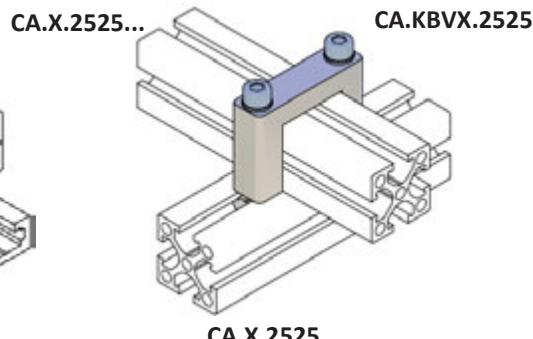
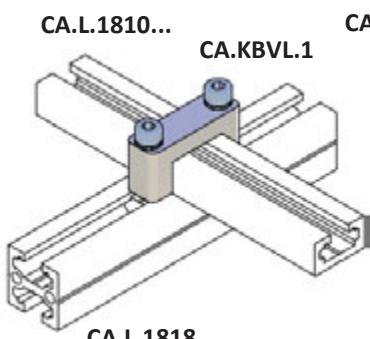
Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento Anodizzato

Article no.	A	B	C	M	Weight
CA.KBVL.1810	18	10	10	L	26 g
CA.KBVL.1818		18			30 g
CA.KBVX.2510	25	10	12	X	42 g
CA.KBVX.2518		18			48 g
CA.KBVX.2525	25	25	15	JU	58 g
CA.KBVX.2550	50	50			79 g
CA.KBVX.5025	50	25			74 g
CA.KBVJU.4040	40	40	15	JU	107 g
CA.KBVJU.4080		80			150 g
CA.KBVJU.8040	80	40			140 g



Application examples / Esempi applicativi



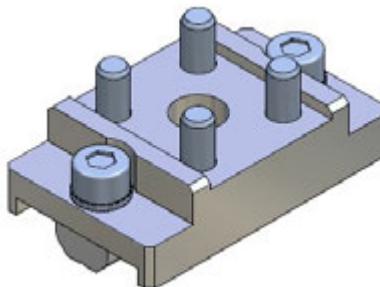
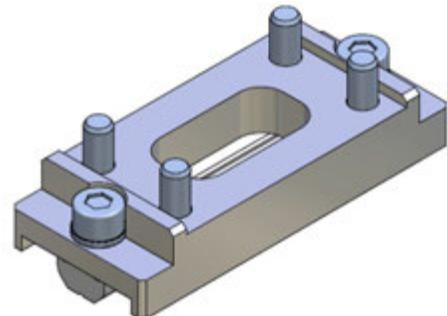
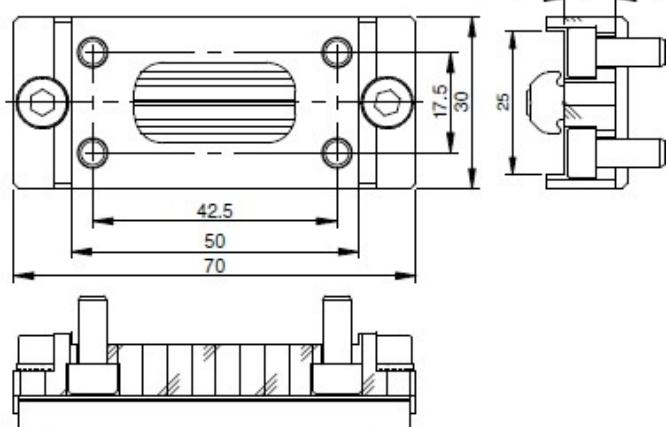
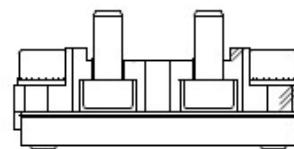
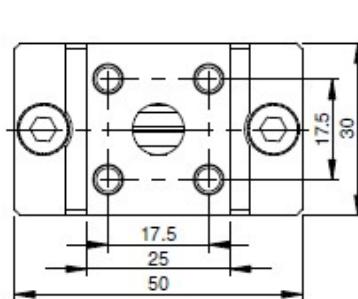
CA.03 SVB
X
. Profile End connector 25


Table / Tabella

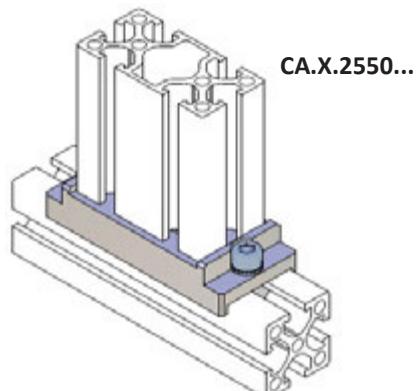
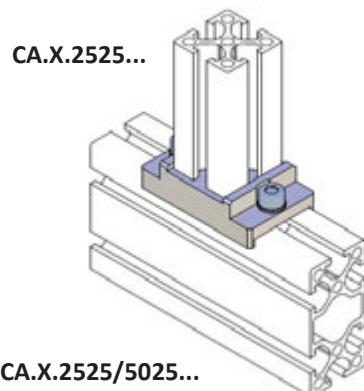
M = Suitable for Profiles
Applicabile ai Profili

Remarks / Osservazioni:

 Material /Materiale :
 Aluminium / Alluminio

 Surface: Silver anodized
Superficie: Argento Anodizzato

. Connessione terminale per Profilo 25


Article no.	M	Weight
CA.SVB.X.25.25	X	69 g
CA.SVB.X.25.50		87 g

Application examples / Esempi applicativi


CA.03 SVB

. Profile End connector 50

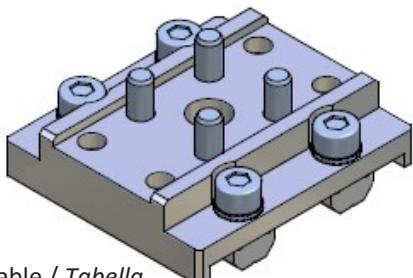


Table / Tabella

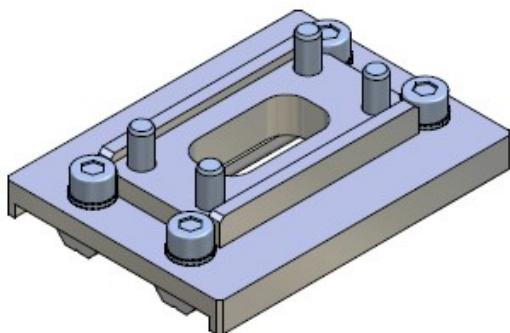
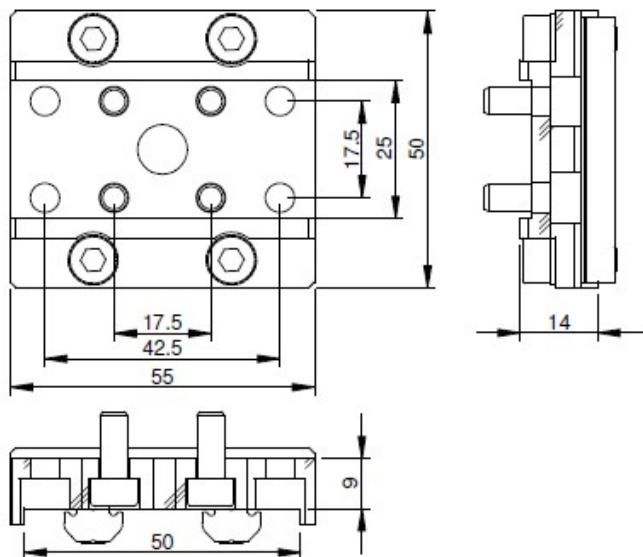
M = Suitable for Profiles
Applicabile ai profili

Remarks / Osservazioni:

Material /Materiale :
Aluminium / Alluminio

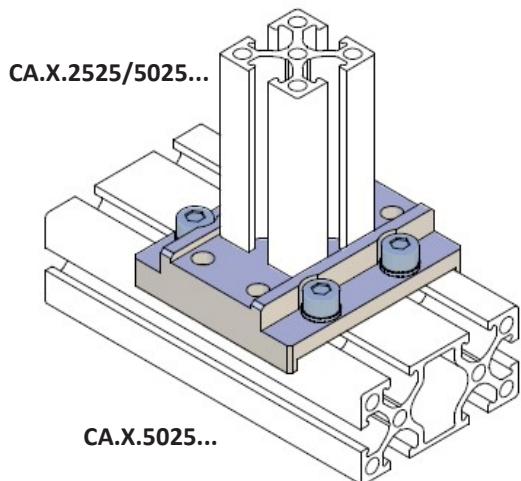
Surface: Silver anodized
Superficie: Argento Anodizzato

. Connessione terminale per Profilo 50

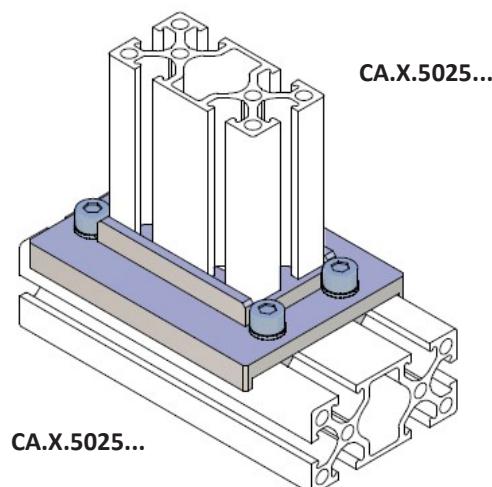
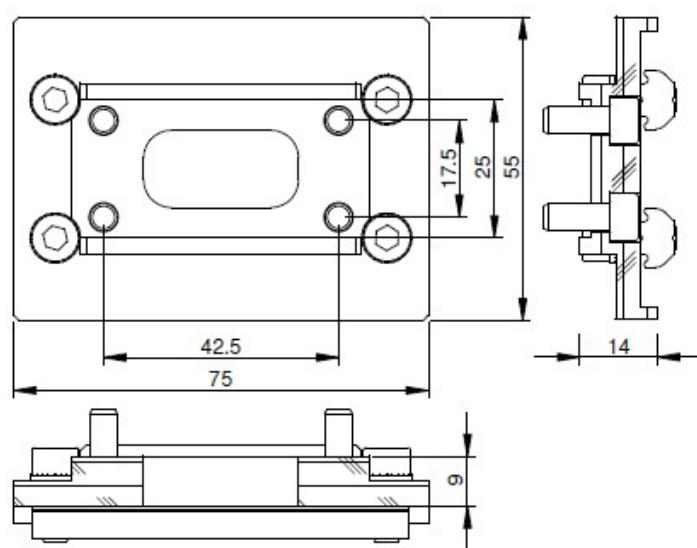


Article no.	M	Weight
CA.SVB.X.50.25	X	114 g
CA.SVB.X.50.50		149 g

Application examples / Esempi applicativi



CA.X.5025...



CA.X.5025...

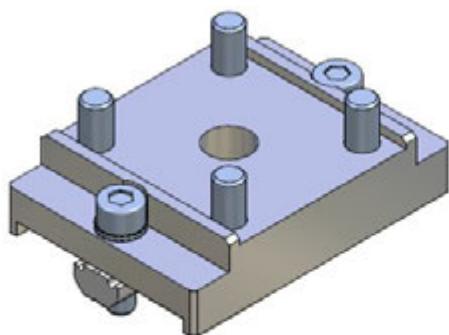
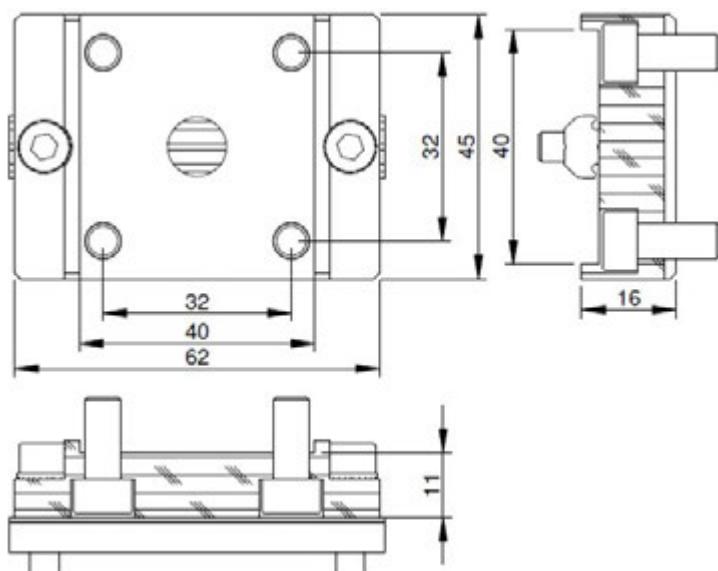
CA.03 SVB
JU
. Profile End connector 40

. Connessione terminale per Profilo 40


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

Remarks / Osservazioni:

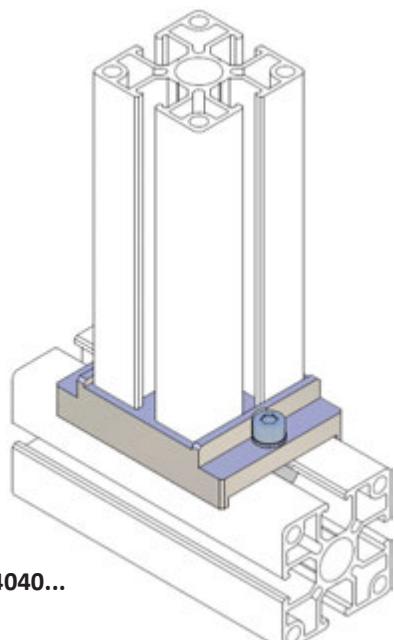
 Material / Materiale :
 Aluminium / Alluminio

 Surface: Silver anodized
 Superficie: Argento Anodizzato

Article no.	M	Weight
CA.SVB.JU.40.40	JU	129 g

CA.JU.4040...

Application example / Esempio applicativo



CA.JU.4040...

CA.03 VBG

X/JU

. Straight Connector

. Connessione Lineare

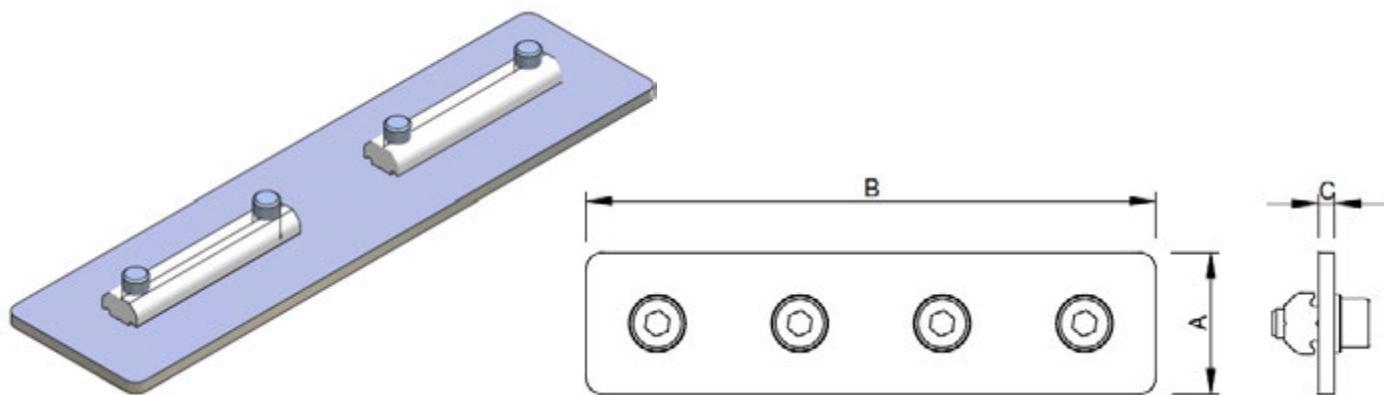


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

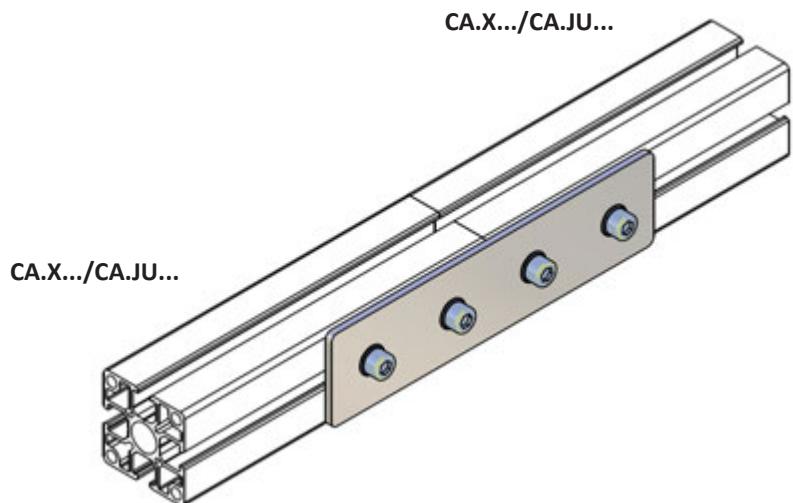
Remarks / Osservazioni:

Material : Steel galvanized
Materiale: Acciaio zincato

Article no.	A	B	C	M	Weight
CA.VBG.X.25.50	25	50			48 g
CA.VBG.X.50.50	50			X	94 g
CA.VBG.X.25.100	25	100			99 g
CA.VBG.JU.40.80		80		JU	97 g
CA.VBG.JU.40.160	40	160			215 g

Application example / Esempio applicativo

CA.X.../CA.JU...



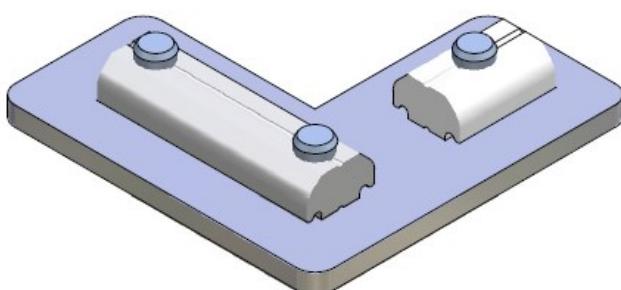
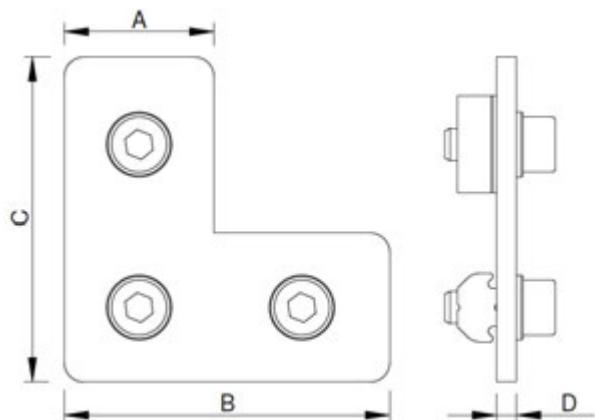
CA.03 VBL - VBT
X/JU
. Connector L-Style


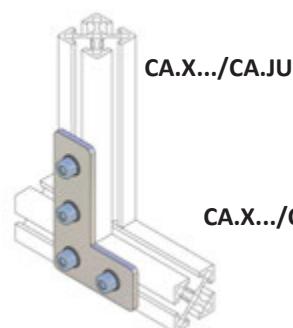
Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

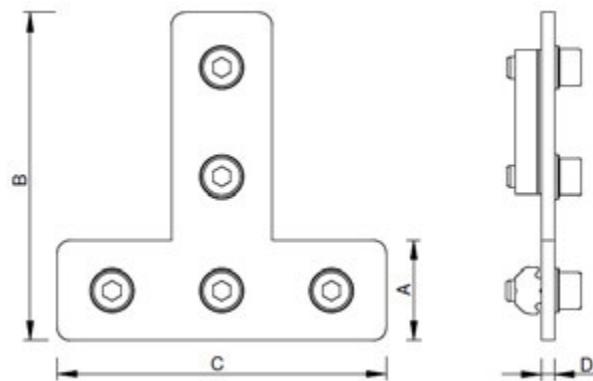
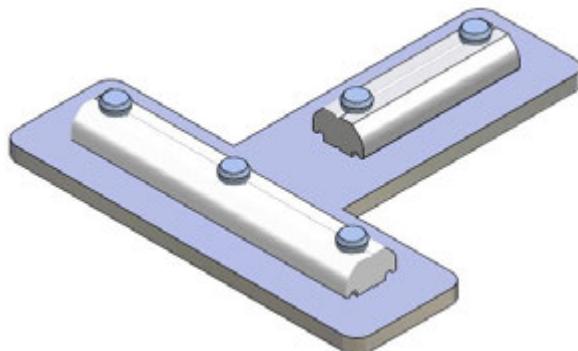
Remarks / Osservazioni:

Material : Steel galvanized
Materiale: Acciaio zincato


Application example / Esempio applicativo

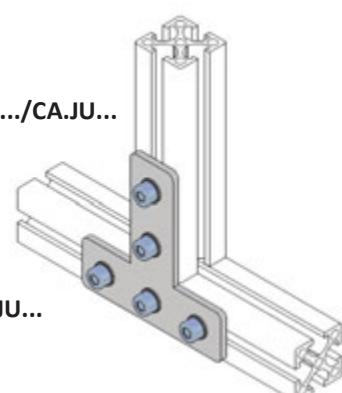

CA.X.../CA.JU...
CA.X.../CA.JU...

Article no.	A	B	C	D	M	Weight
CA.VBL.50.50	23	50	50	3	X	71 g
CA.VBL.50.75			75			96 g
CA.VBL.80.80.JU	40	80	80	JU	JU	145 g
CA.VBL.80.120.JU			120			200 g

. Connector T-Style

. Connessione a T

Article no.	A	B	C	D	M	Weight
CA.VBT.X.50.75	25	75	75	3	X	123 g
CA.VBT.X.75.100			100			149 g
CA.VBT.JU.120	40	120	120		JU	261 g

Application example / Esempio applicativo

CA.X.../CA.JU...
CA.X.../CA.JU...


CA.03 VBW - EVB

. Adjustable Connector 0-90°

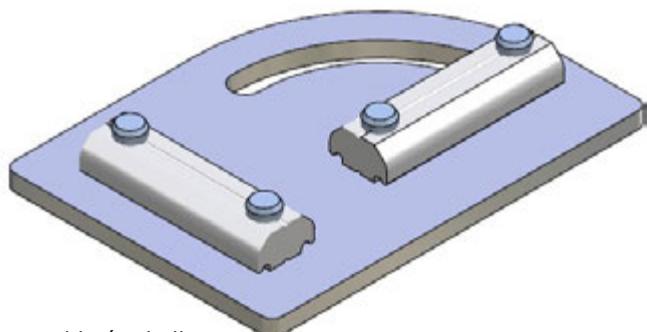
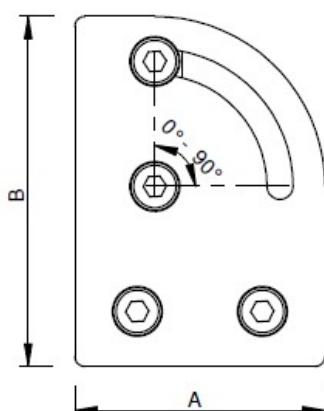


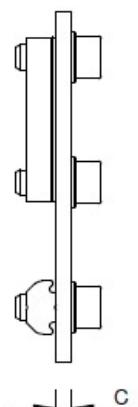
Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

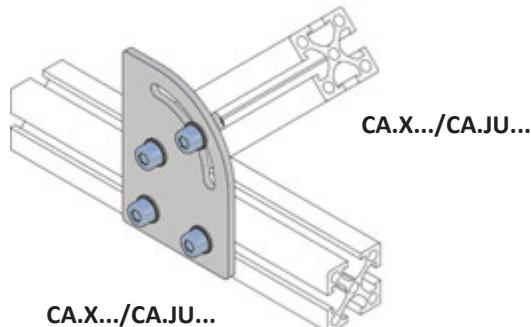
Article no.	A	B	C	M	Weight
CA.VBW.X.0.90	50	70		X	112 g
CA.VBW.JU.0.90	80	120	3	JU	249 g



. Connessione regolabile 0-90°

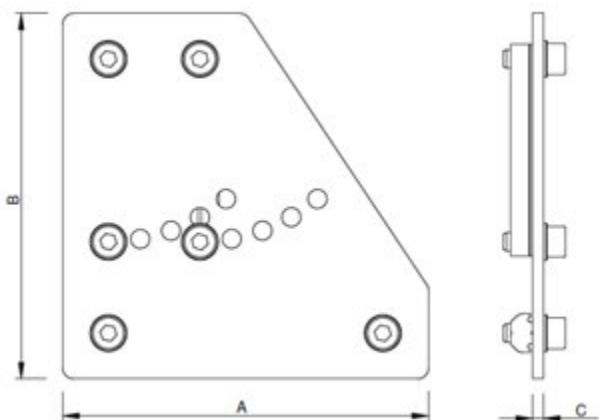


Application example / Esempio applicativo



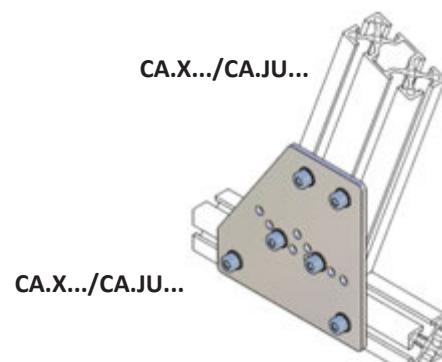
CA.X.../CA.JU...

. Connessione Angolare



Application example / Esempio applicativo

Article no.	A	B	C	M	Weight
CA.EVB.75.X	75				193 g
CA.EVB.100.X	100	100	3	X	292 g
CA.EVB.100.JU	80			JU	206 g



CA.X.../CA.JU...

CA.X.../CA.JU...

CA.03 KVB
L/X/JU

. Cross Connector Round

. Connessione Tubo

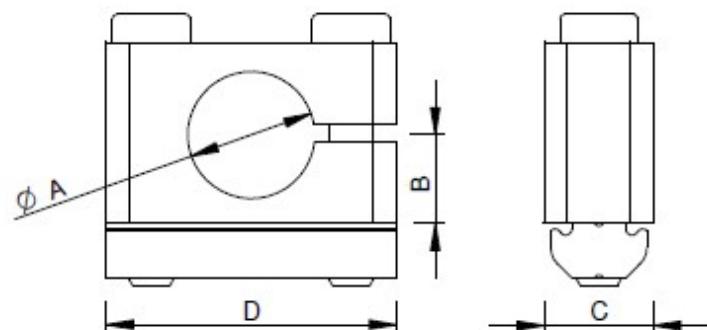
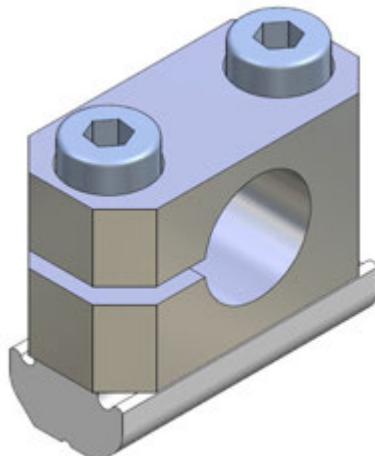


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

Remarks / Osservazioni:

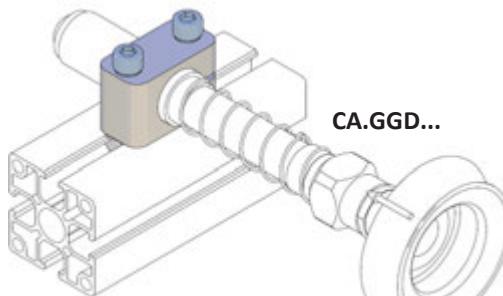
Material / Materiale : Aluminium/ Alluminio

Surface: Silver anodized
Superficie: Argento Anodizzato

Article no.	A	B	C	D	M	Weight
CA.KVB.L10	10	8		25	L	17 g
CA.KVB.X14	14	10	12	32	X	36 g
CA.KVB.X20				40		45 g
CA.KVB.JU20	20	13	20		JU	68 g
CA.KVB.JU30	30	18		52		70 g

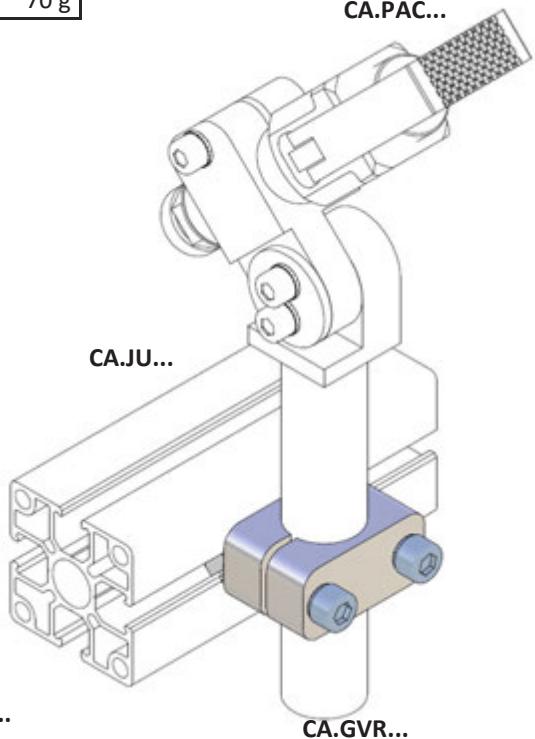
CA.PAC...

Application examples / Esempi applicativi



CA.GGD...

CA.JU...



CA.JU...

CA.GRF...

CA.GVR...

CA.03 KVB.KG

X/JU

. Cross Connector Round With Ball Joint

. Connessione Tubo con Sfera

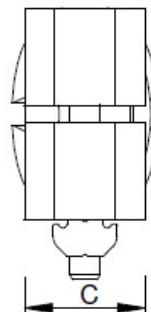
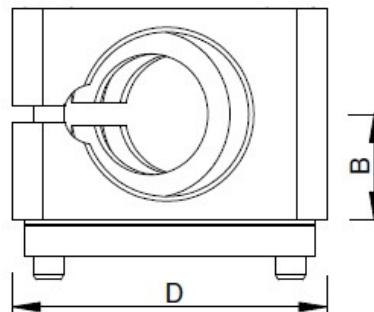
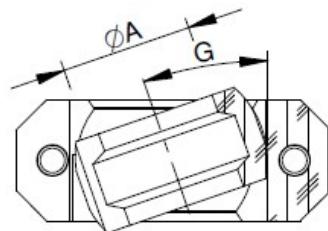
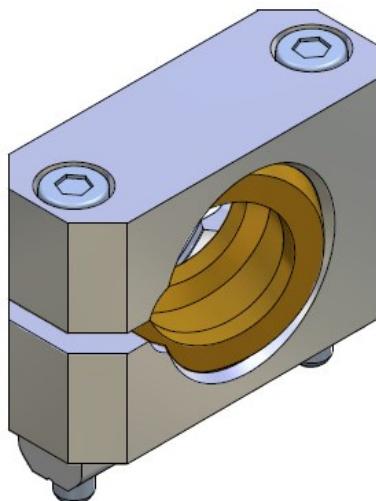
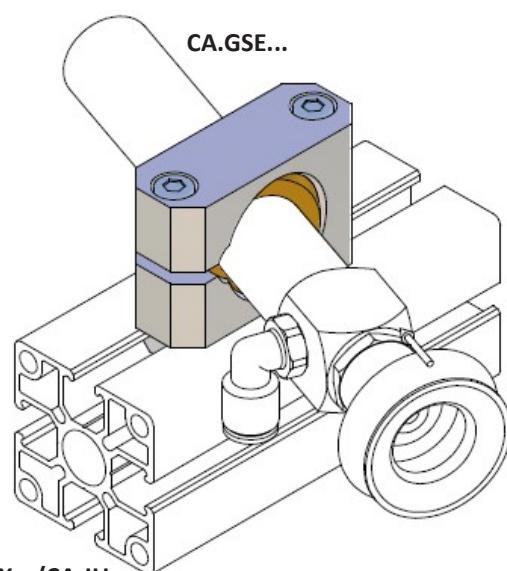
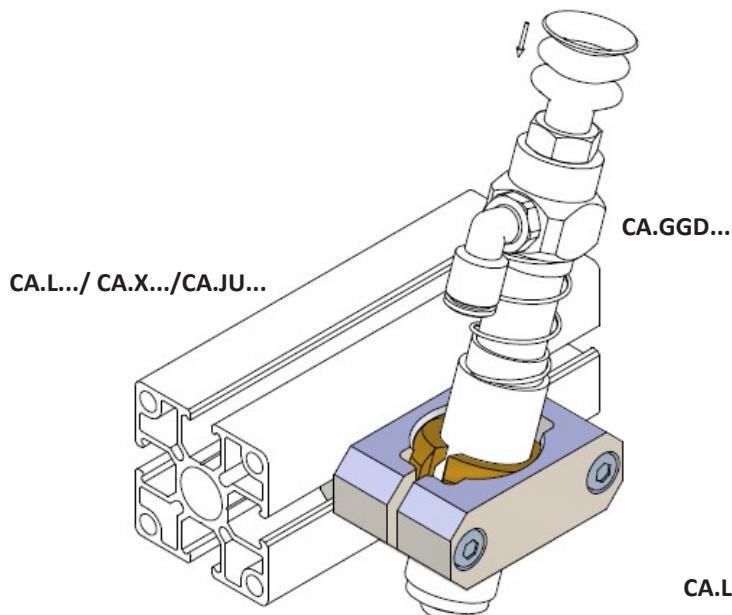


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

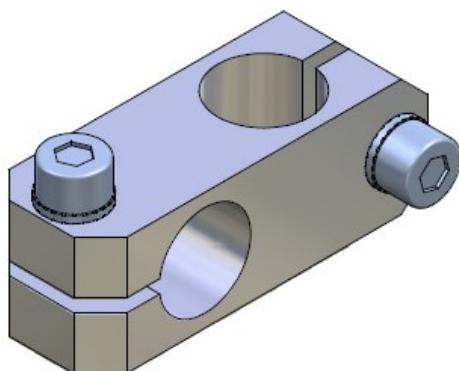
Article no.	A	B	C	D	G°	M	Weight
CA.KVB.KG.X10	10	10	12	32	0°-13°	X	42 g
CA.KVB.KG.X14	14	12.5	15	40	0°-17°		60 g
CA.KVB.KG.JU20	20	17.5	20	52	0°-19°	JU	113 g

Application examples / Esempi applicativi



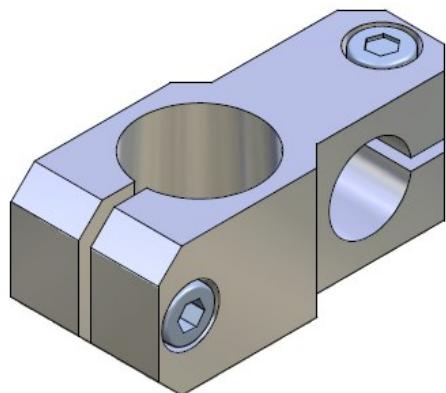
CA.03 KKS

. Cross connector Tube

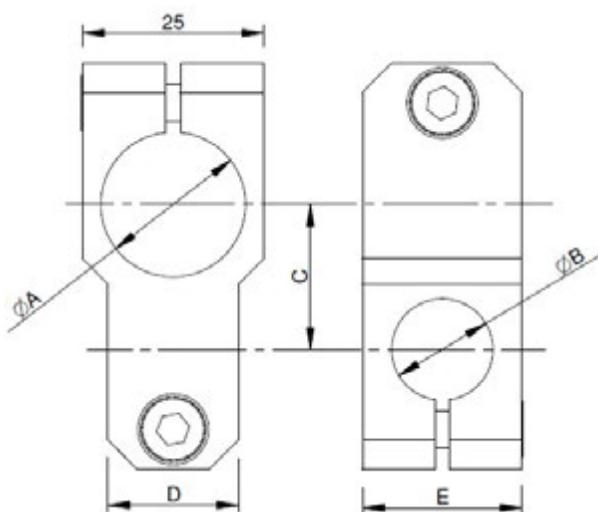
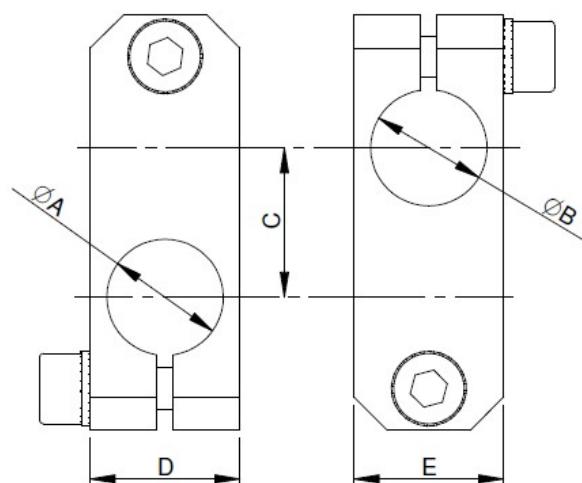


Remarks / Osservazioni:

Material /Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento Anodizzato

Ø 10-14-20

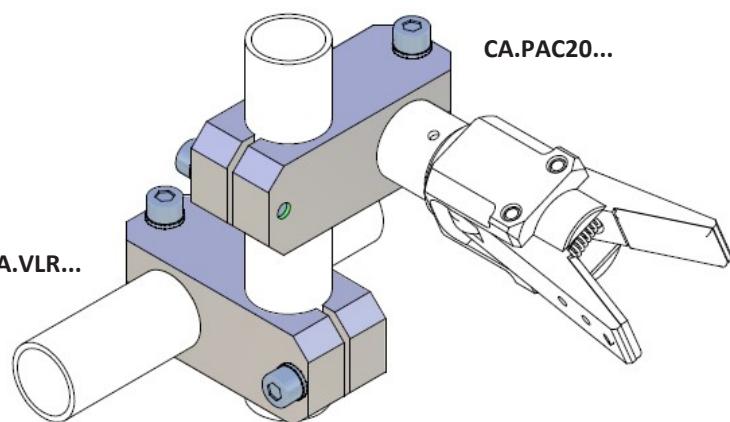
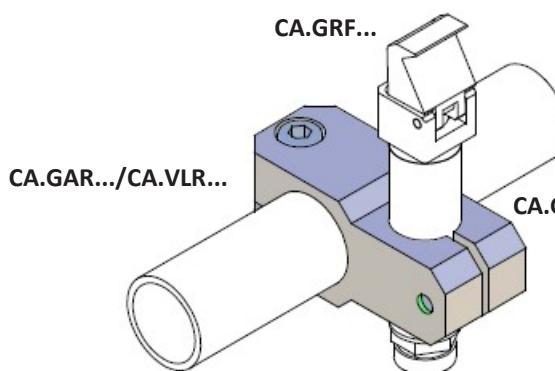
. Connessione a Croce Tubo



Article no.	A	B	C	D	E	Weight
CA.KKS.10.10	10	10	16	14	14	17 g
CA.KKS.14.14	14	14	18	18	18	35 g
CA.KKS.20.20		20	26	25	25	71 g
CA.KKS.20.10	20	10	20	14	20	41 g
CA.KKS.20.14		14		18	22	48 g

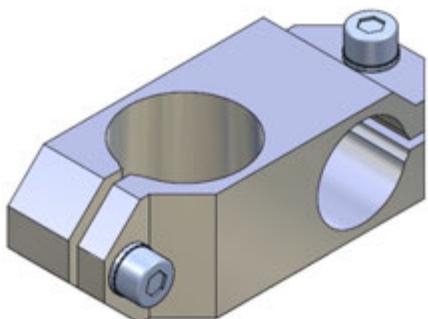
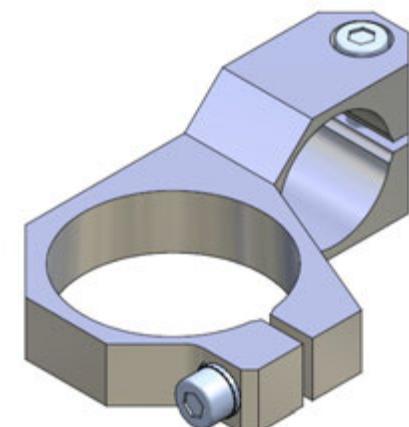
CA.GAR.../CA.VLR...

Application examples / Esempi applicativi



CA.03 KKS.L

. Cross connector Tube



New

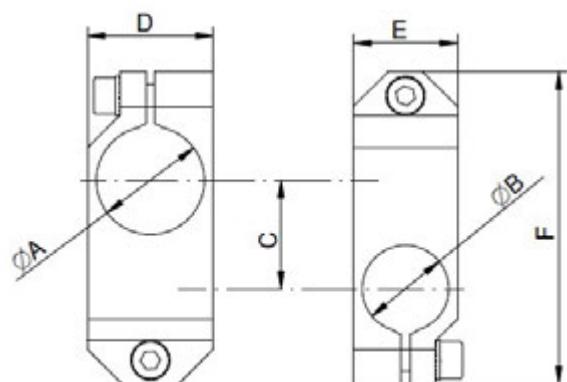
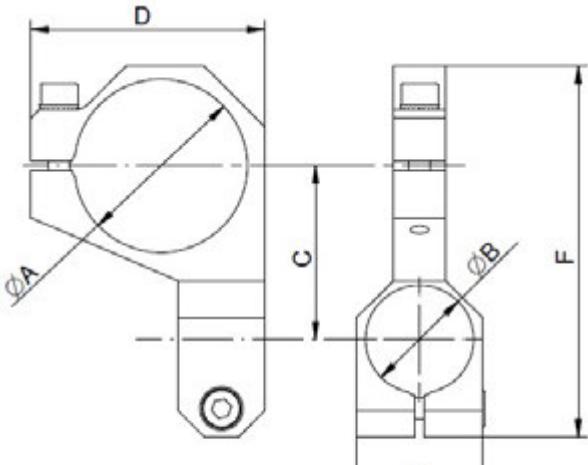
Remarks / Osservazioni:

Material /Materiale :
Aluminium / Alluminio

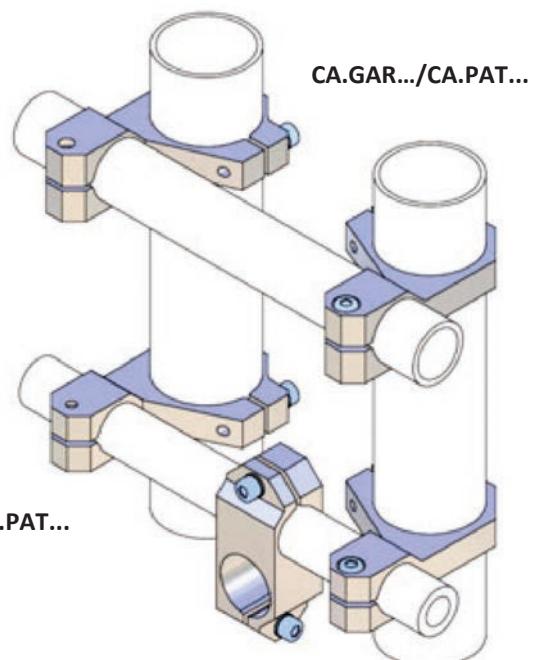
Surface: Silver anodized
Superficie: Argento Anodizzato

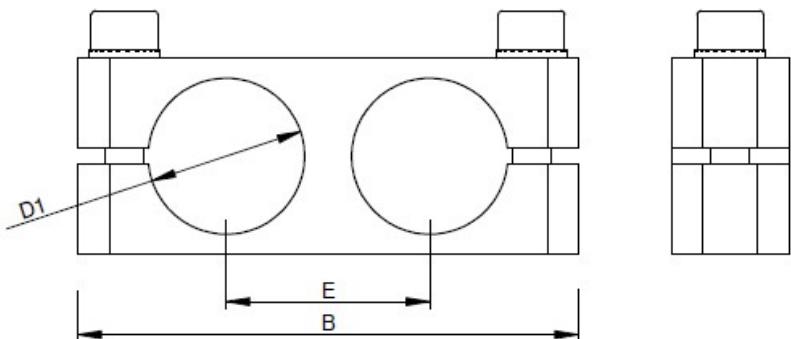
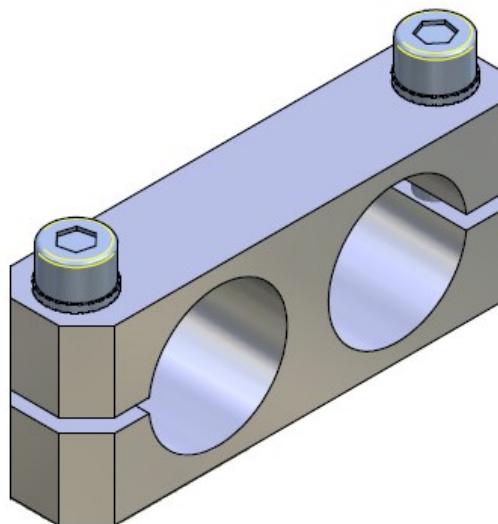
Article no.	A	B	C	D	E	F	Weight
CA.KKS.L.2020	20	20		25	24	65	53 g
CA.KKS.L.2025			25		29	72	67 g
CA.KKS.L.2525	25		30	29		80	87 g
CA.KKS.L.4020		20		40	24	83	57 g
CA.KKS.L.4025	40		25		29	85.5	60 g
CA.KKS.L.4040		40	50		44	103	92 g

Application example / Esempio applicativo



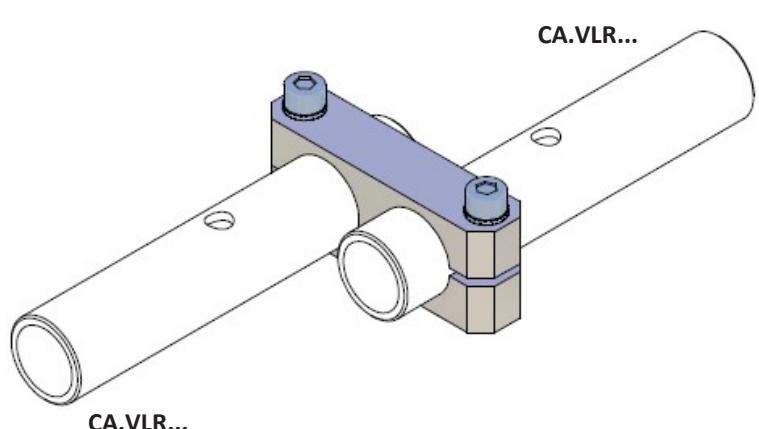
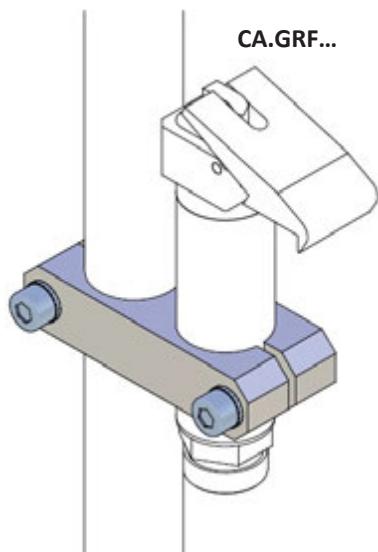
CA.GAR.../CA.PAT...



CA.04 PKS
Ø 10-14-20-30
. Parallel Clamp
. Staffa Parallela

Remarks / Osservazioni:
Material / Materiale :
Aluminium / Alluminio

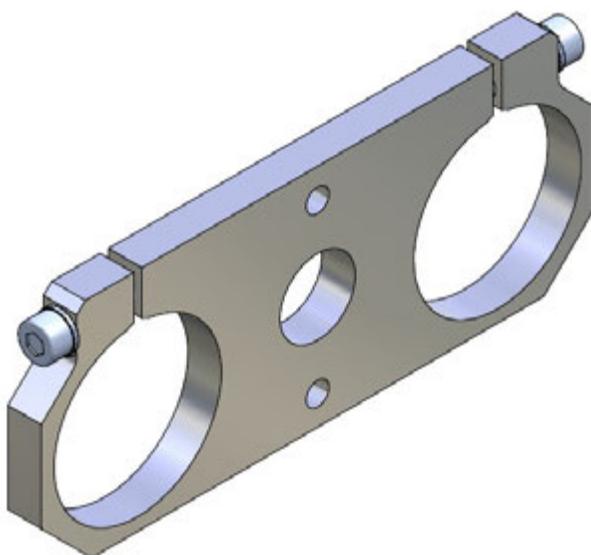
Surface: Silver anodized
Superficie: Argento anodizzato

Article no.	D1	B	E	Weight
CA.PKS.1010.15	10	38	15	12 g
CA.PKS.1414.20	14	52	20	27 g
CA.PKS.2020.26	20	64	26	47 g
CA.PKS.3030.38	30	88	38	104 g

Application examples / Esempi applicativi


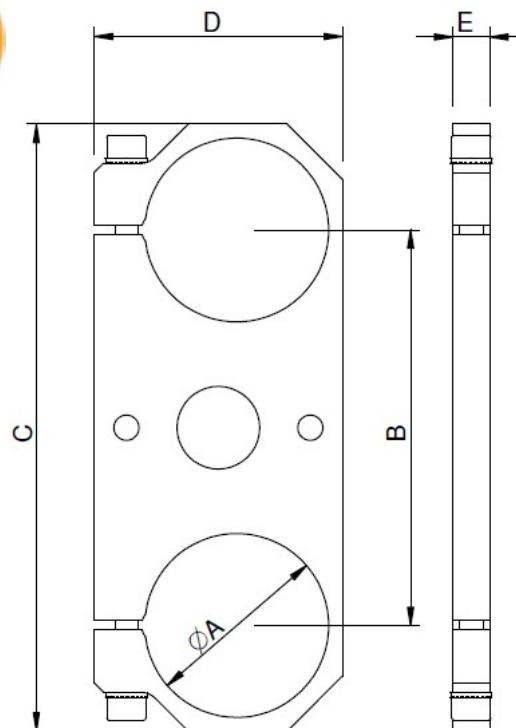
CA.03 PKS.L

. Reducer



New

. Riduzione

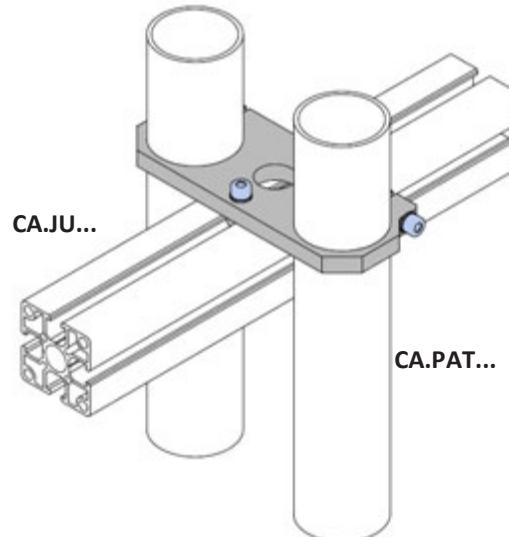


Remarks / Osservazioni:

Material / Materiale :
Aluminium / AlluminioSurface: Silver anodized
Superficie: Argento anodizzato

Article no.	A	B	C	D	E	Weight
CA.PKS.L.4040.76	40	76	122	54	8	82 g
CA.PKS.L.4040.86	40	86	132	54	8	93 g

Application example / Esempio applicativo



CA.04 WST

. Adjustable Clamp

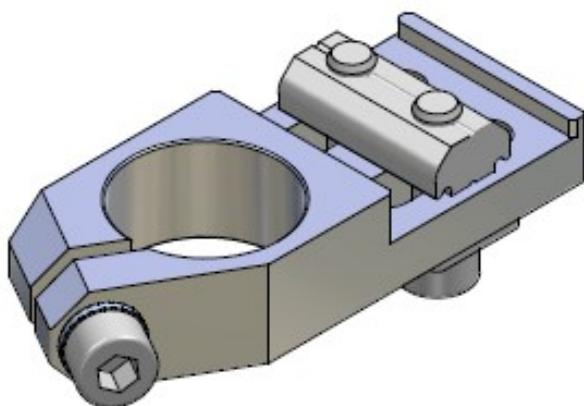
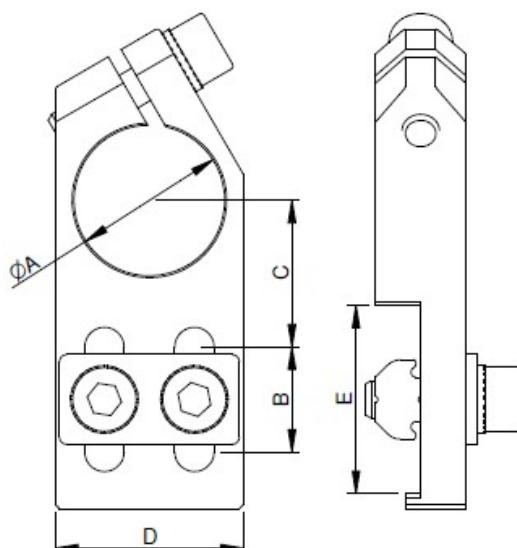


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

L/X/JU

. Staffa Angolare

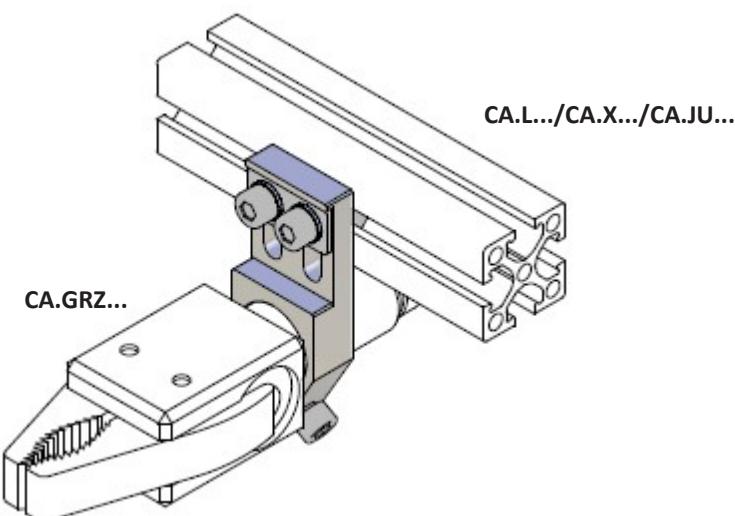
Remarks / Osservazioni:

Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato

Article no.	A	B	C	D	E	M	Weight
CA.WST.1010.L	10	10	12	16	18	L	20 g
CA.WST.1014.X			13.5				21 g
CA.WST.1414.X	14	14	15.5	20	25	X	33 g
CA.WST.2014.X			19.5				46 g
CA.WST.2022.JU	20	22	23	25	40	JU	51 g

Application example / Esempio applicativo



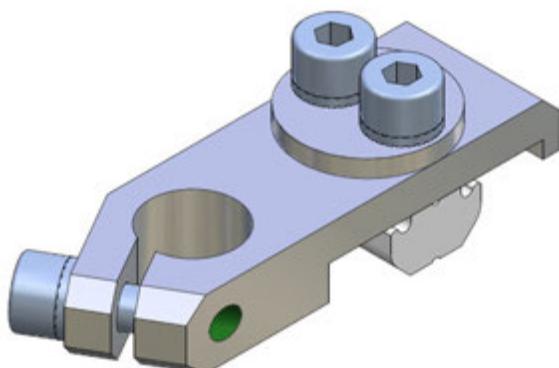
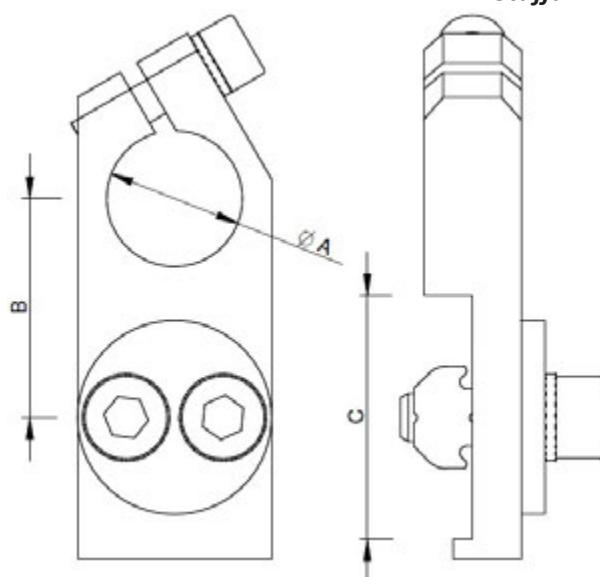
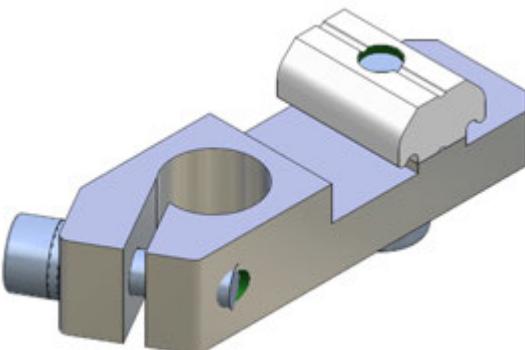
CA.04 WST**L/X/JU****. Adjustable Clamp**

Table / Tabella

M = Suitable for Profiles
Applicabile ai profili


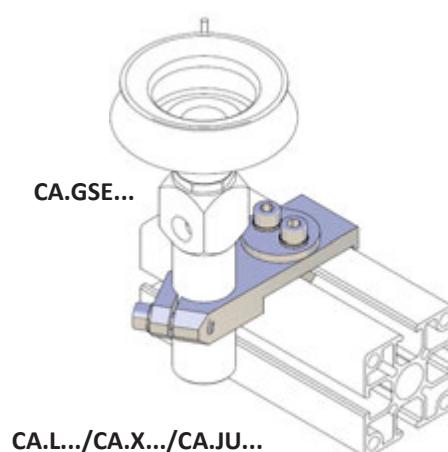
Article no.	A	B	C	M	Weight
CA.WST.10.L	10	17	18	L	20 g
CA.WST.10.X		21	25	X	
CA.WST.14.L	14	19	18	L	31 g
CA.WST.14.X		23	25	X	34 g
CA.WST.20.X	20	27			49 g
CA.WST.20.JU		34	40	JU	55 g
CA.WST.30.X	30	30	25	X	95 g
CA.WST.30.JU		38	40	JU	109 g

Application example / Esempio applicativo

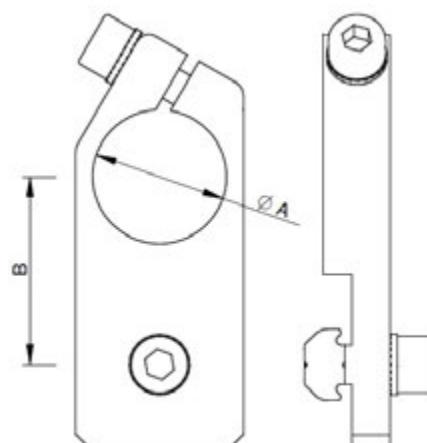
CA.04 WST (easy)

Remarks / Osservazioni:

Material / Materiale :
 Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato


CA.L.../CA.X.../CA.JU...



Article no.	A	B	M	Weight
CA.WST.10	10	21	X	23 g
CA.WST.14	14	24		31 g
CA.WST.20	20	28		36 g

CA.04 WSL.U

. Universal Long Angle Clamp

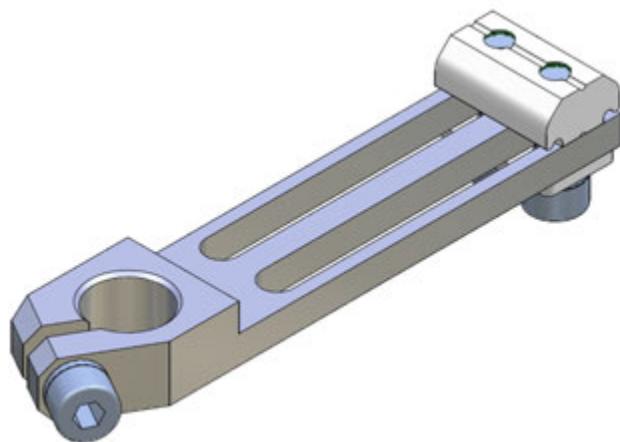
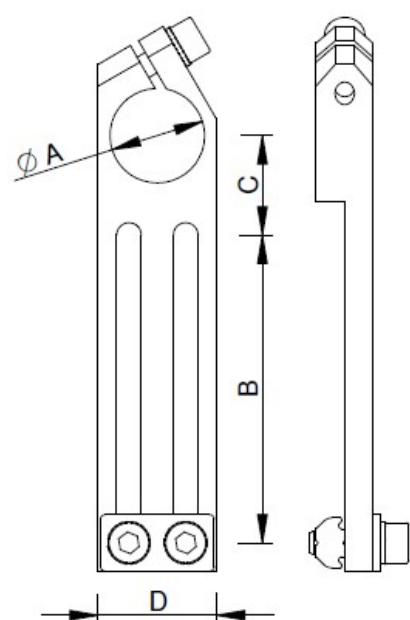


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

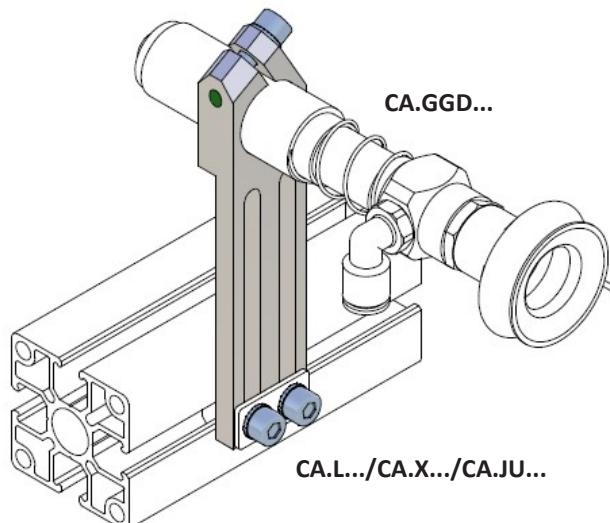
Remarks / Osservazioni:

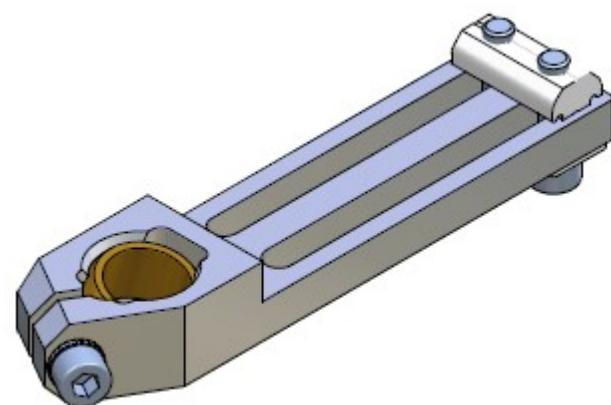
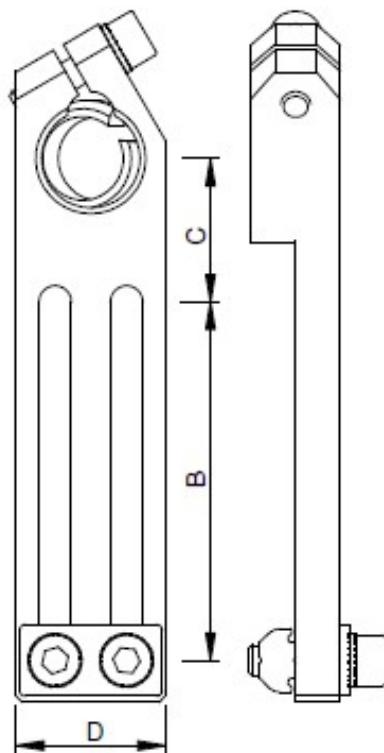
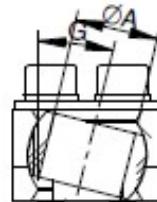
Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato


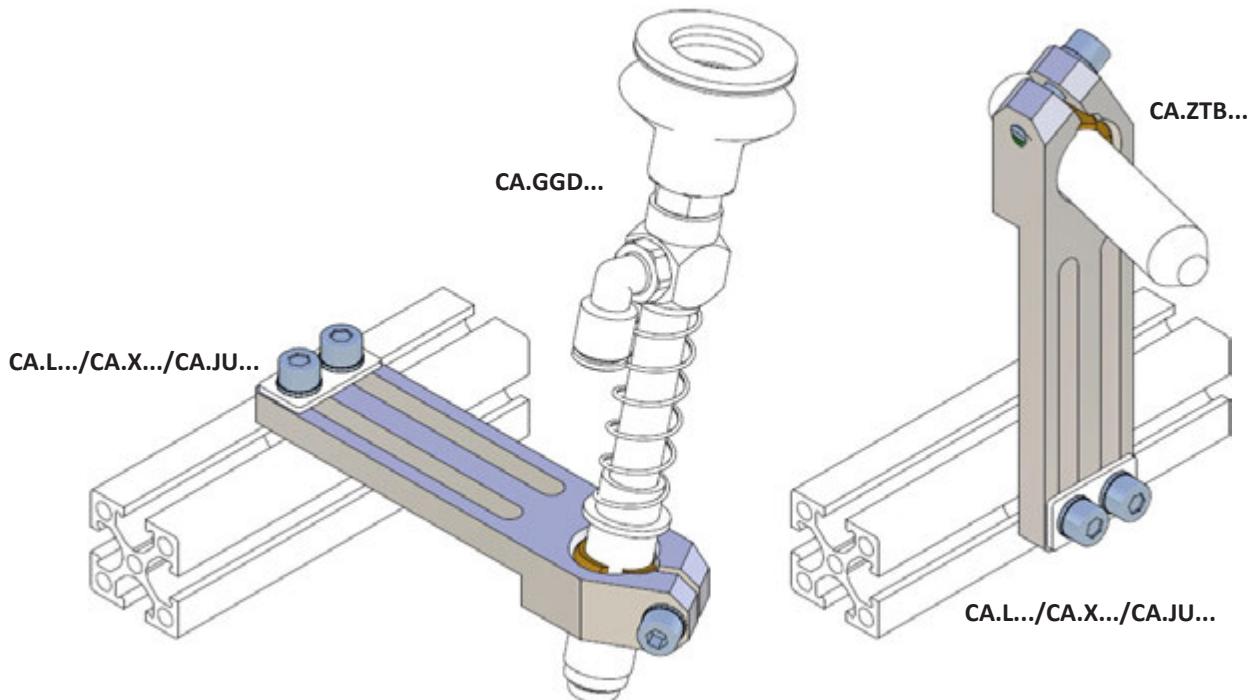
Article no.	A	B	C	D	M	Weight
CA.WSL.1040.U.L	10	40	17.5	16	L	23 g
CA.WSL.1040.U.X					X	
CA.WSL.1440.U.L	14	50	19	20	L	32 g
CA.WSL.1440.U.X					X	
CA.WSL.1450.U.X						39 g
CA.WSL.2060.U.X	20	70	21	25	X/JU	58 g
CA.WSL.2070.U.X					JU	
CA.WSL.2070.U.JU			25.5			64 g
CA.WSL.3070.U.JU	30		30	35		67 g
						118 g

Application example / Esempio applicativo



CA.04 WSL.G**X/JU****. Long Angle Clamp With Ball joint****Table / Tabella****M** = Suitable for Profiles
*Applicabile ai profili***Remarks / Osservazioni:****Material / Materiale :**
Aluminium / AlluminioSurface: Silver anodized
Superficie: Argento anodizzato

Article no.	A	B	C	D	G°	M	Weight	
CA.WSL.1050.G.X	10	50	20	20	0°-13°	X	51 g	
CA.WSL.1460.G.X	14		60	25	0°-17°		78 g	
CA.WSL.2060.G.X	20			29	35	0°-19°	X/JU	159 g

Application examples / Esempi applicativi

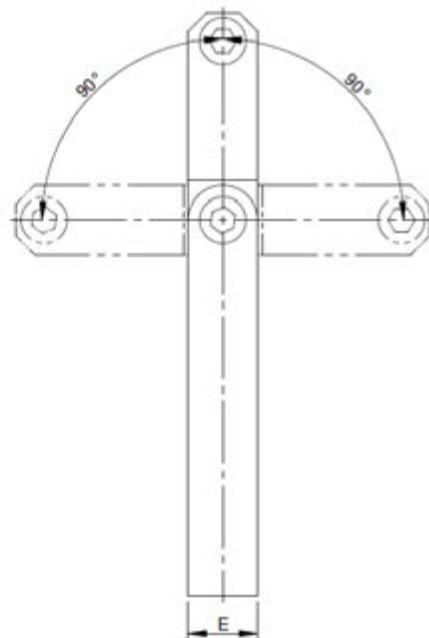
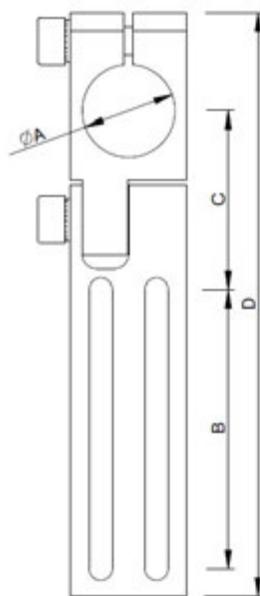
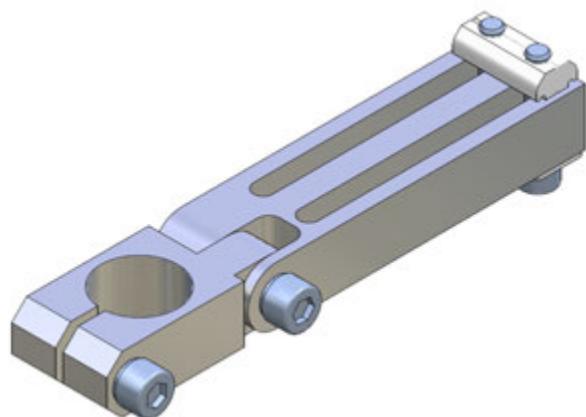
CA.04 WSL.GA
L/X/JU
. Long Angle Clamp - Swivel Head
. Staffa Snodata


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

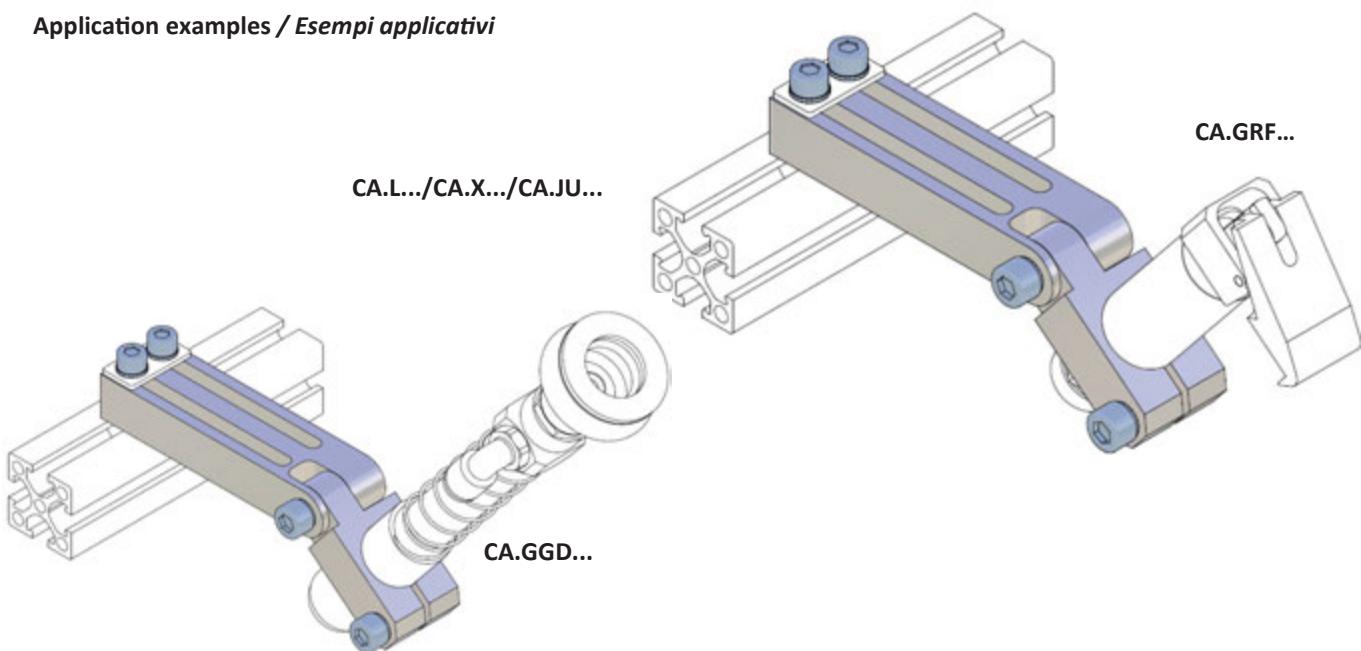
Article no.	A	B	C	D	E	M	Weight
CA.WSL.GA.10.X	10	40	32	93	10	L/X	57 g
CA.WSL.GA.14.X	14		33	96		X	
CA.WSL.GA.20.X	20	60	38.5	125.5	15	X/JU	118 g
CA.WSL.GA.30.X	30	82	53	168.5	20	JU	261 g

Remarks / Osservazioni:

Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato

Application examples / Esempi applicativi



CA.04 WSL.KG

X/JU

. Long Angle Clamp Swivel Head and Ball Joint

. Staffa Snodata con Sfera

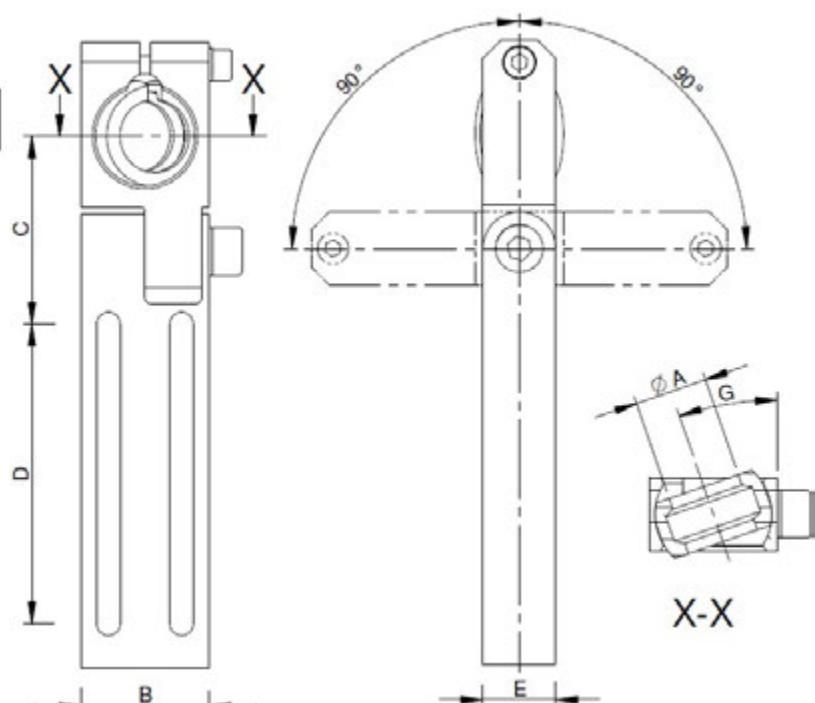
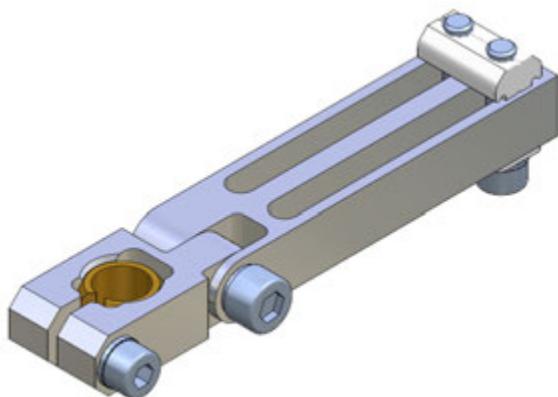


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

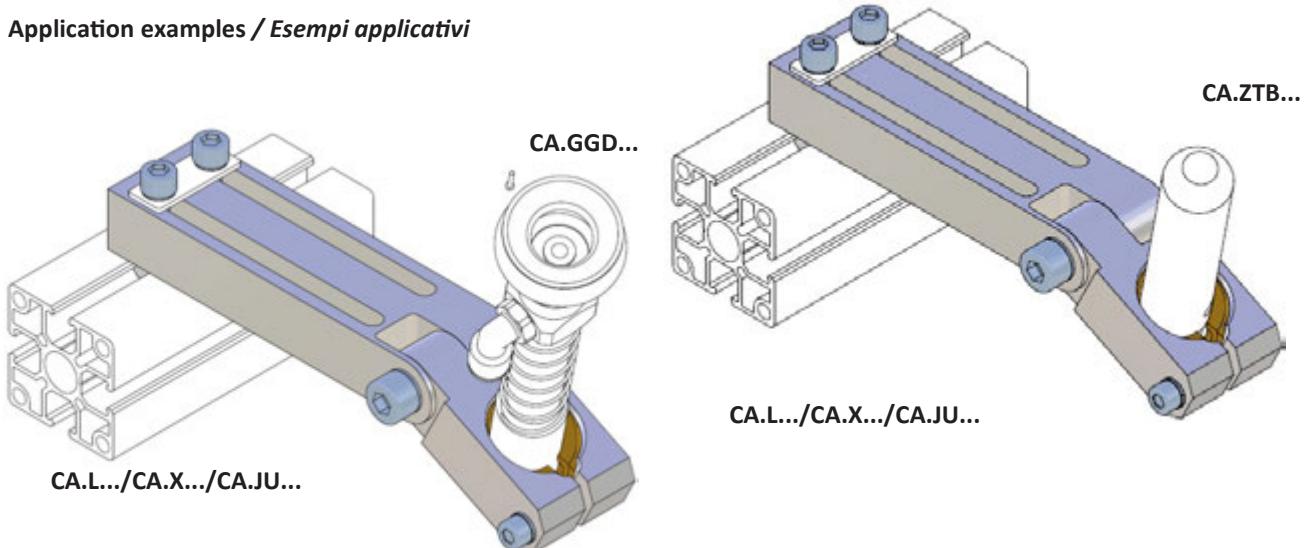
Remarks / Osservazioni:

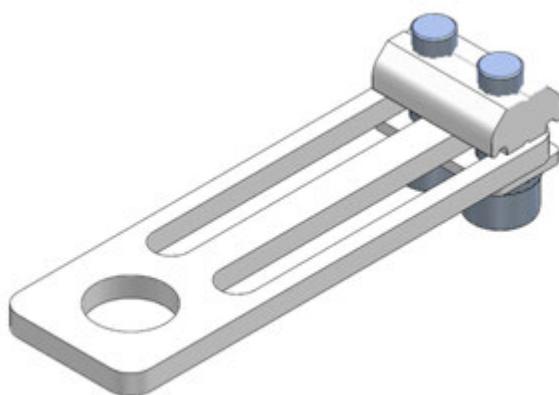
Material /Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato

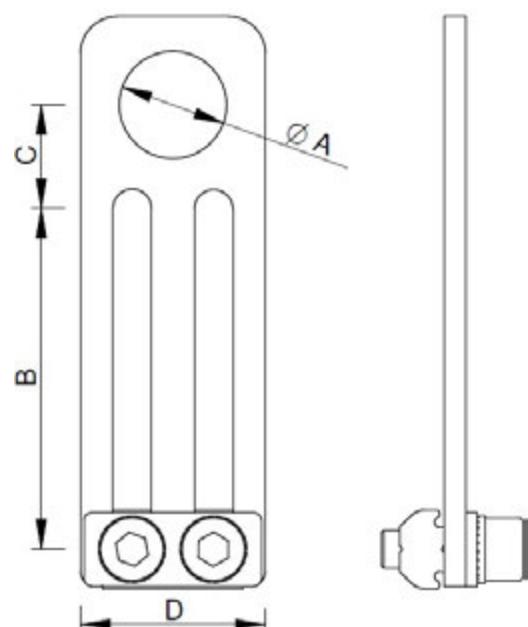
Article no.	A	B	C	D	E	G°	M	Weight
CA.WSL.KG.X.10	10	20	32.5	50	12	0°-13°	X	78 g
CA.WSL.KG.X.14	14	25	39.5	60	15	0°-17°		117 g
CA.WSL.KG.JU.20	20	35	51.5	82	20	0°-19°	X/JU	320 g

Application examples / Esempi applicativi

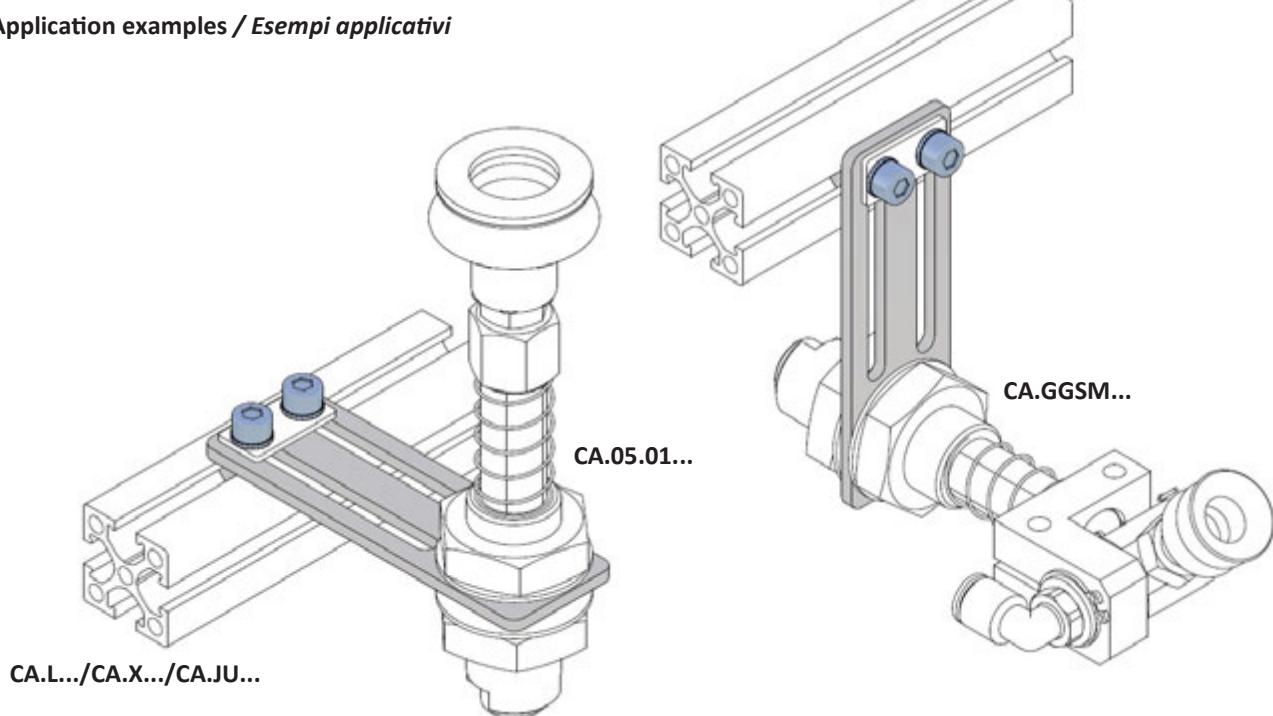


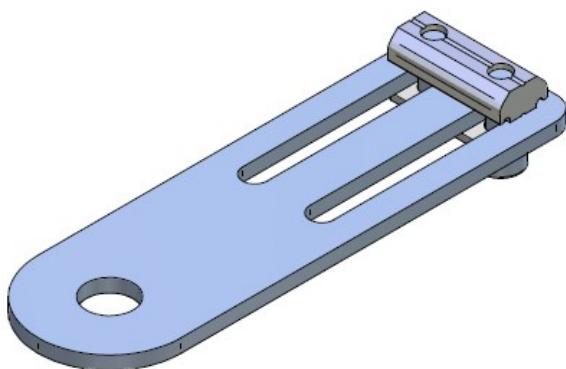
CA.04.20
X/JU
. Mounting Bracket

Table / Tabella
M = Suitable for Profiles
Applicabile ai profili

Remarks / Osservazioni:
Material / Materiali:

Surface: Steel galvanized
Superficie: Acciaio zincato


Article no.	A	B	C	D	M	Weight
CA.04.20.10.X	10	40	11	20		35 g
CA.04.20.12.X	12				X	
CA.04.20.14.X	14	46	14	25		47 g
CA.04.20.20.X	20	51.5	19	30	X/JU	65 g

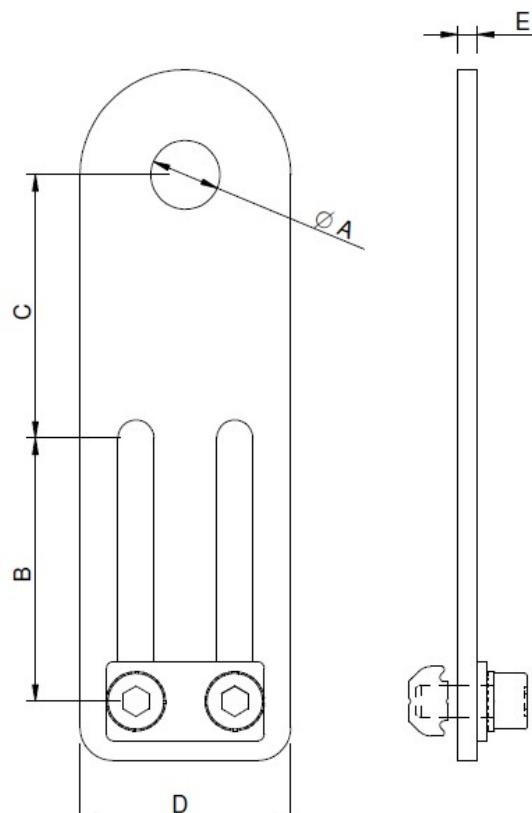
CA.L.../CA.X.../CA.JU...
Application examples / Esempi applicativi


CA.04 SCM**. Short Mounting bracket****Table / Tabella**

M = Suitable for Profiles
Applicabile ai profili

Remarks / Osservazioni:**Material / Materiali:**

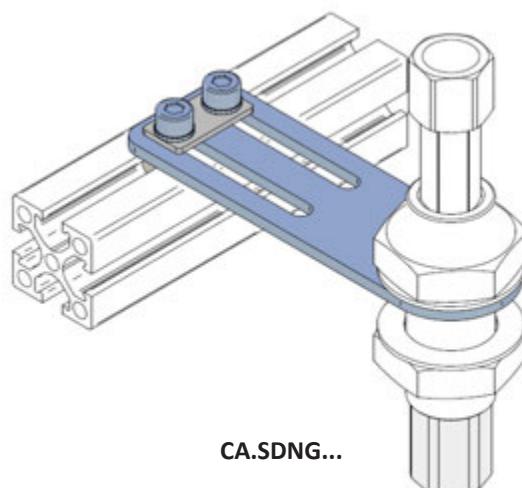
Surface: Steel galvanized
Superficie: Acciaio zincato

. Staffa Corta Passaparete

Article no.	A	B	C	D	E	M	Weight
CA.SCM.10.X	10.5	40	40	32	3	X	84 g
CA.SCM.12.X	12.5						83 g
CA.SCM.14.X	14.5					X/JU	82 g
CA.SCM.20.X	20.5						78 g

Application example / Esempio applicativo

CA.L.../CA.X.../CA.JU...



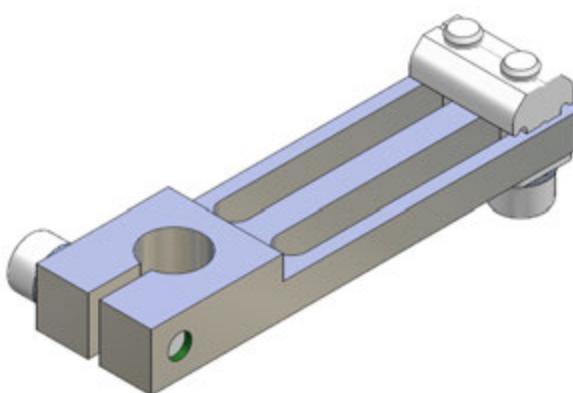
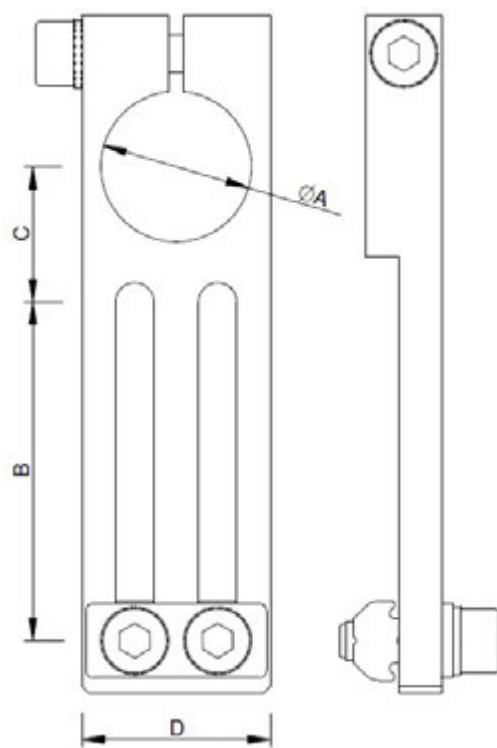
CA.04.02
X/JU
. Long Angle Clamp


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

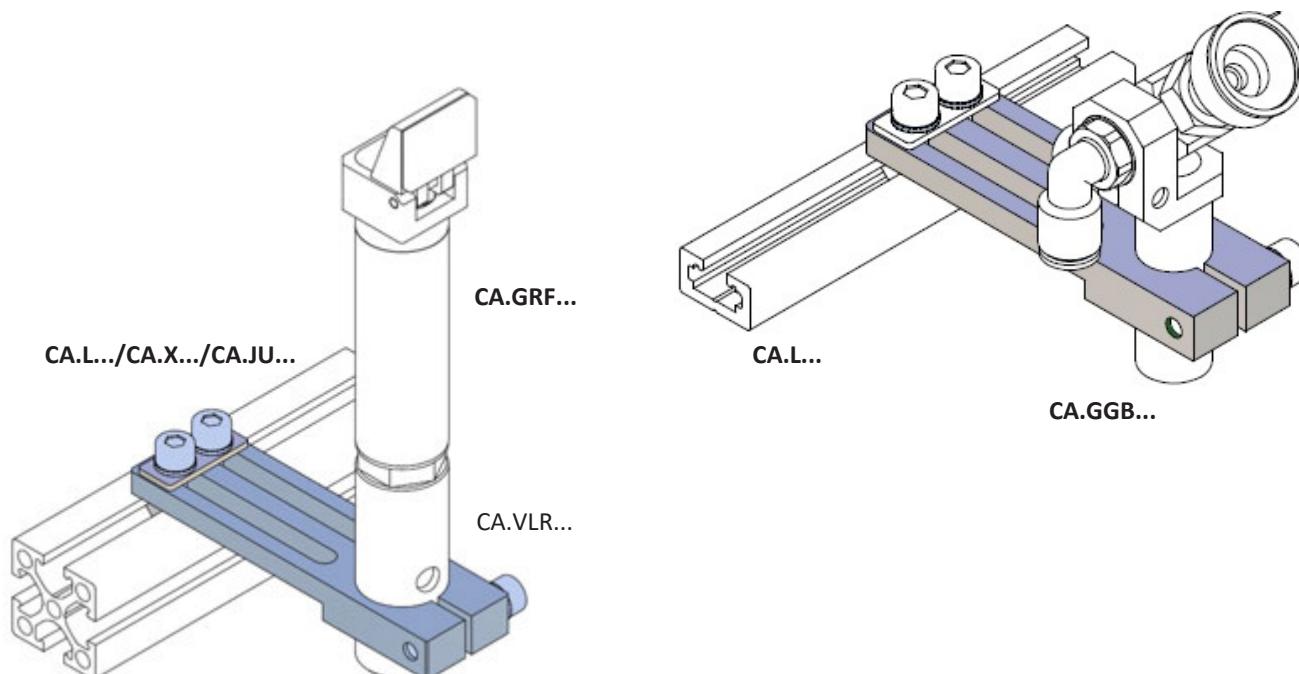
Remarks / Osservazioni:

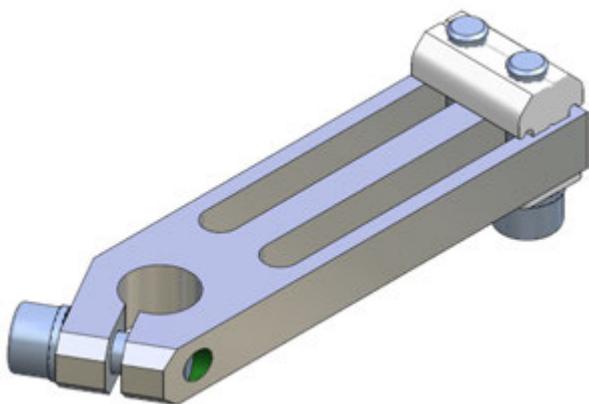
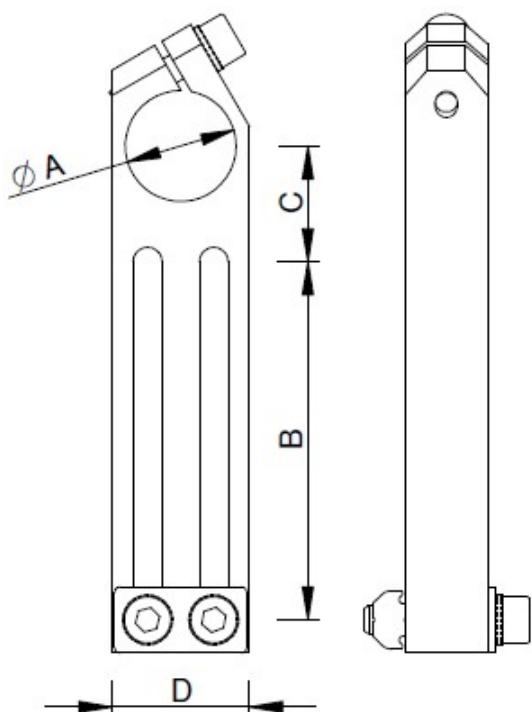
Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato


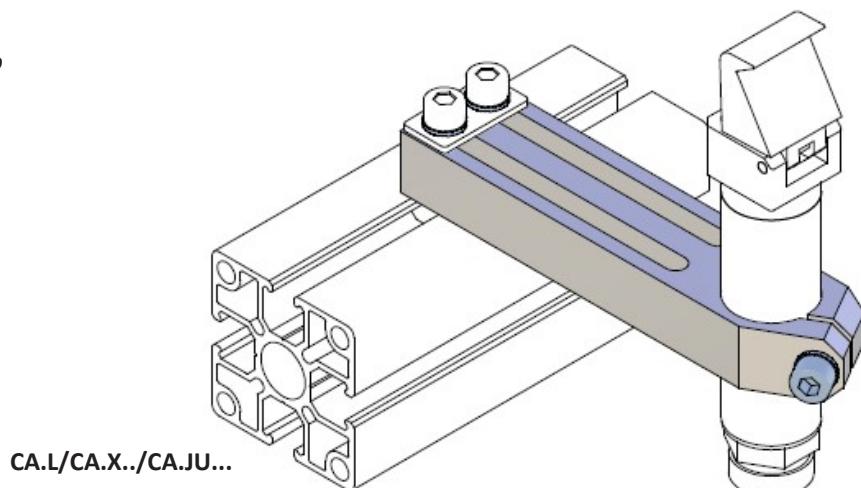
Article no.	A	B	C	D	M	Weight
CA.04.02.10.X	10	40	15.5	20		41 g
CA.04.02.14.X	14		16.5		X	53 g
CA.04.02.20.X	20	45	18	25	X/JU	51 g
CA.04.02.30.X	30	70	34	35	JU	128 g

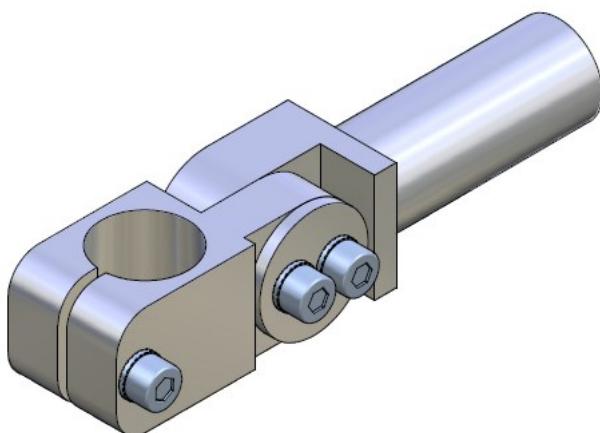
Application examples / Esempi applicativi

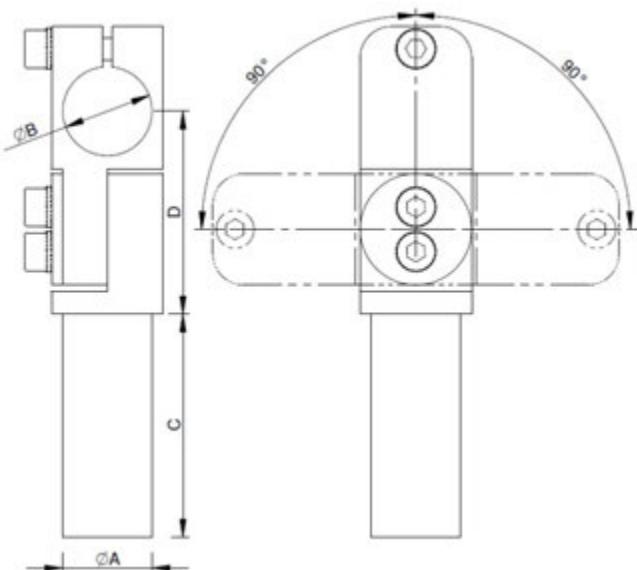


CA.04 WSL.VU**. Long Angle Clamp Heavy Duty****L/X/JU****. Staffa rinforzata****Table / Tabella****M = Suitable for Profiles**
Applicabile ai profili

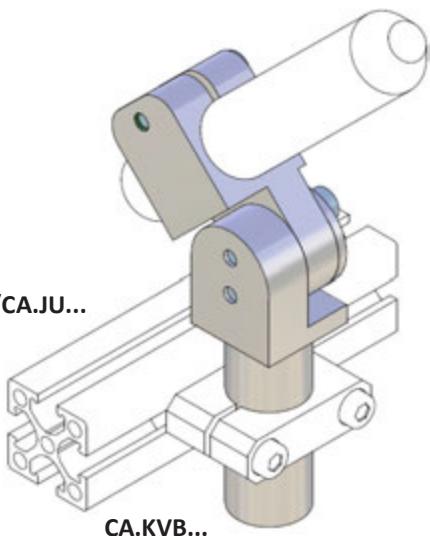
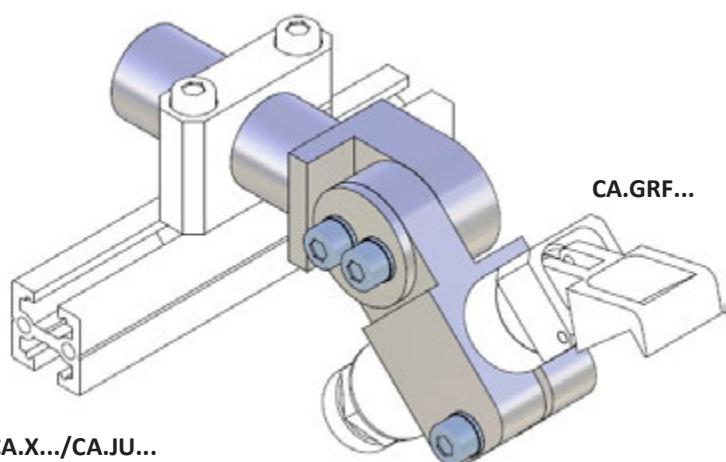
Article no.	A	B	C	D	M	Weight		
CA.WSL.1040.VU.X	10	40	15	20	L	41 g		
CA.WSL.1060.VU.X		60				48 g		
CA.WSL.1080.VU.X		80				49 g		
CA.WSL.1440.VU.X	14	40	19	25	X	38 g		
CA.WSL.1450.VU.X		50	22			59 g		
CA.WSL.2060.VU.X	20	65	21	30	X/JU	94 g		
CA.WSL.2070.VU.X		70	25.5			93 g		
CA.WSL.2080.VU.X		80				98 g		
CA.WSL.2570.VU.X	25	70	21	35	JU	120 g		
CA.WSL.3060.VU.J	30	60	30			188 g		
CA.WSL.3070.VU.J		70				200 g		

Remarks / Osservazioni:**Material /Materiale :**
Aluminium / AlluminioSurface: Silver anodized
Superficie: Argento anodizzato**CA.GRF...****Application example / Esempio applicativo**

CA.04 GVR
Ø 10-14-20-30
. Elbow Gripper Arm

Remarks / Osservazioni:
Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato


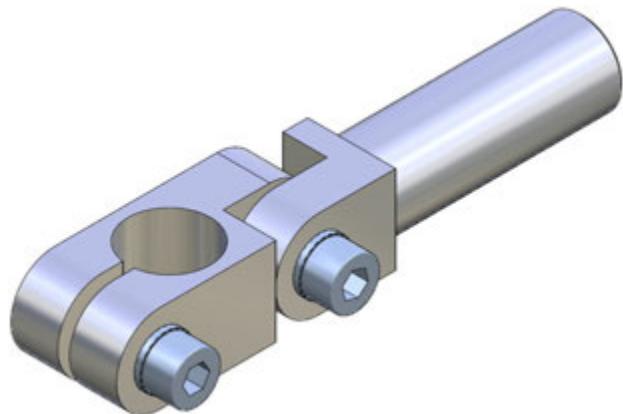
Article no.	A	B	C	D	Weight
CA.GVR.1010.30	10	10	30	30	27 g
CA.GVR.1010.60			60		31 g
CA.GVR.1010.90			90		37 g
CA.GVR.1414.40	14	14	40	36	56 g
CA.GVR.1414.80			80		66 g
CA.GVR.1414.120			120		83 g
CA.GVR.2020.50	20	20	50	45.5	111 g
CA.GVR.2020.100			100		127 g
CA.GVR.2020.150			150		169 g
CA.GVR.3030.80	30	30	80	60	302 g
CA.GVR.3030.140			140		394 g
CA.GVR.3030.200			200		509 g

Application examples / Esempi applicativi
CA.ZTB...

CA.L.../CA.X.../CA.JU...

CA.L.../CA.X.../CA.JU...
CA.KVB...
CA.GRF...

CA.04 GLA

Ø 10-14-20-30

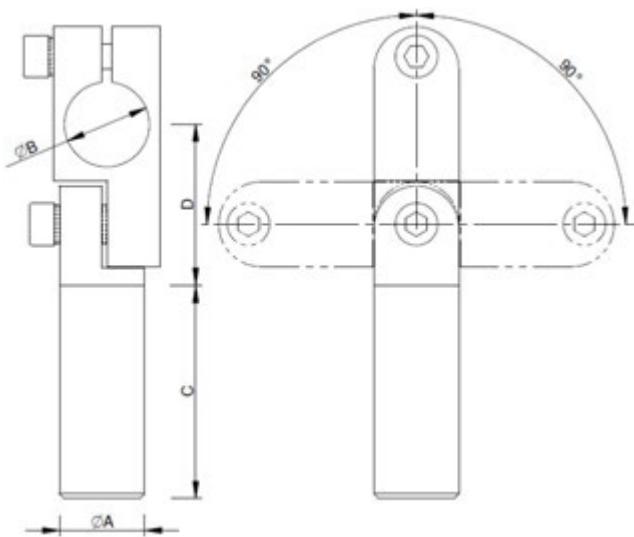
. Elbow gripper arm



Remarks / Osservazioni:

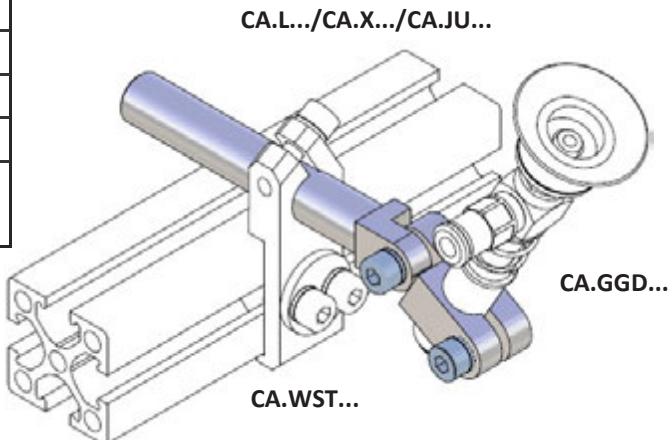
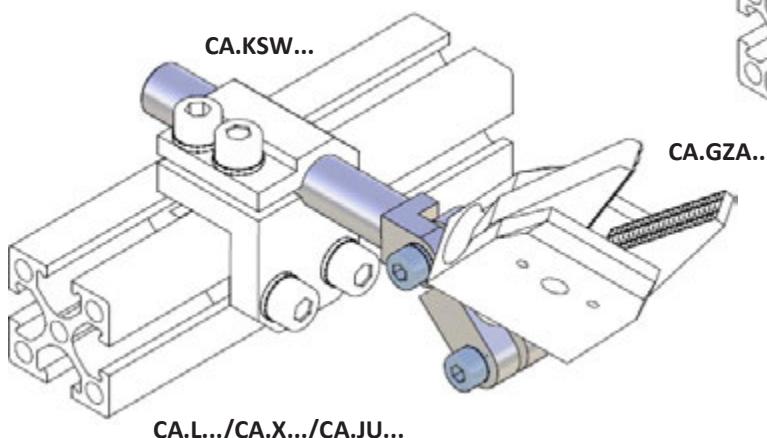
Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato



Article no.	A	B	C	D	Weight
CA.GLA.1010.30	10	10	30	22	17 g
CA.GLA.1010.60			60		21 g
CA.GLA.1010.90			90		28 g
CA.GLA.1414.40	14	14	40	30	43 g
CA.GLA.1414.80			80		51 g
CA.GLA.1414.120			120		70 g
CA.GLA.2020.50	20	20	50	38	99 g
CA.GLA.2020.100			100		106 g
CA.GLA.2020.150			150		165 g
CA.GLA.2030	20	30	100	47	315 g
CA.GLA.3030	30				

Application examples / Esempi applicativi



CA.04 KSW
L/X/JU

. Clamp angle

. Staffa Angolare

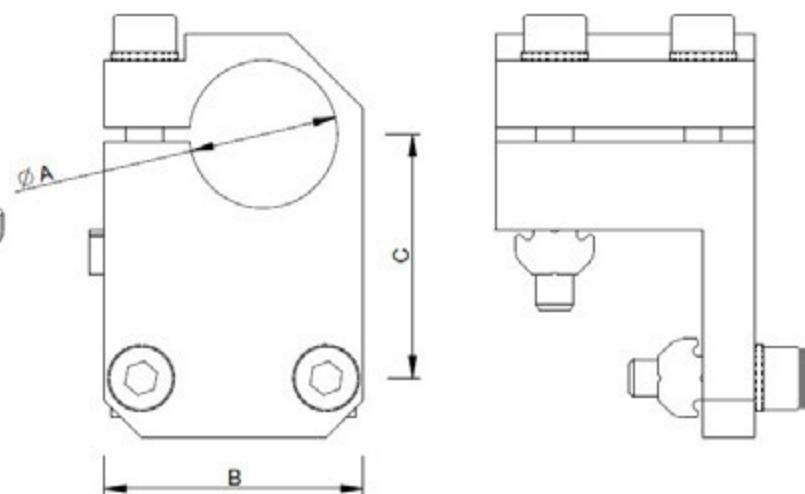
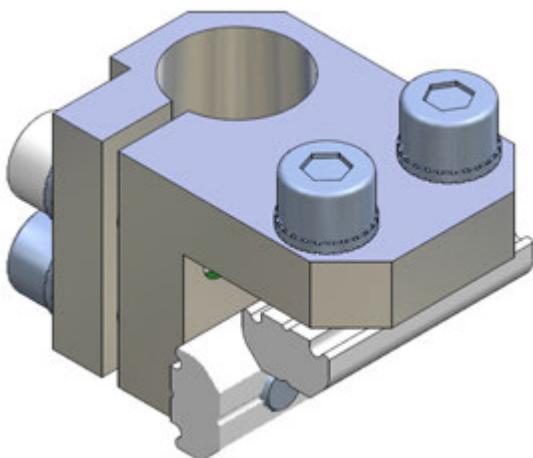


Table / Tabella

M = Suitable for Profiles
Applicabile ai profili

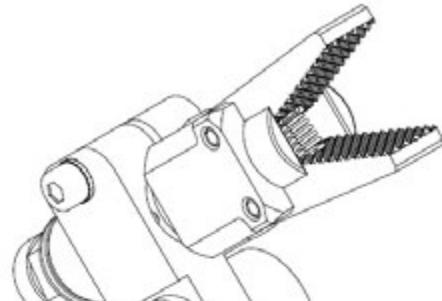
Remarks / Osservazioni:

Material / Materiale :
Aluminium / Alluminio

Surface: Silver anodized

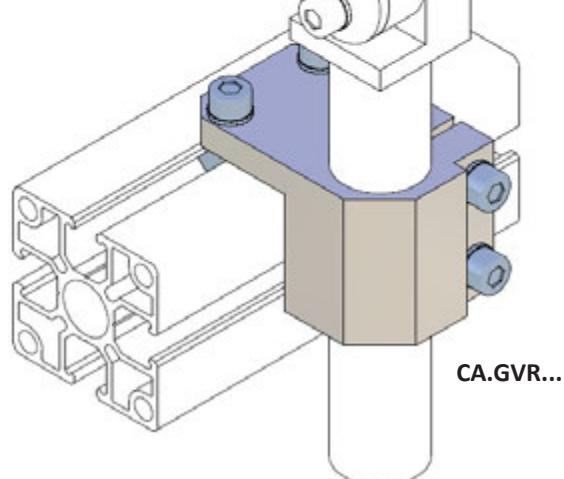
Superficie: Argento anodizzato

Article no.	A	B	C	M	Weight
CA.KSW.10.L	10	20	16,5	L	27 g
CA.KSW.10.X		25	19,5		56 g
CA.KSW.14.X	14	32	21,5	X	59 g
CA.KSW.20.X			24,5		80 g
CA.KSW.20.JU	20	35	33	JU	103 g
CA.KSW.30.JU		30	45		148 g



Application example / Esempio applicativo

CA.L.../CA.X.../CA.JU...

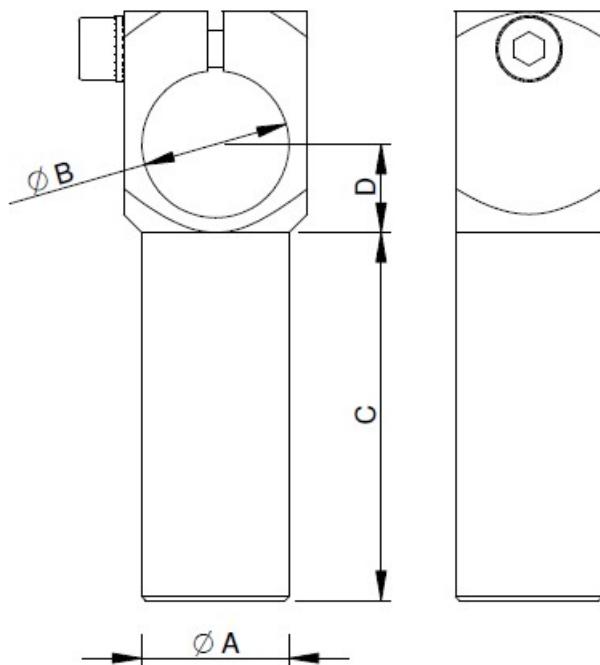
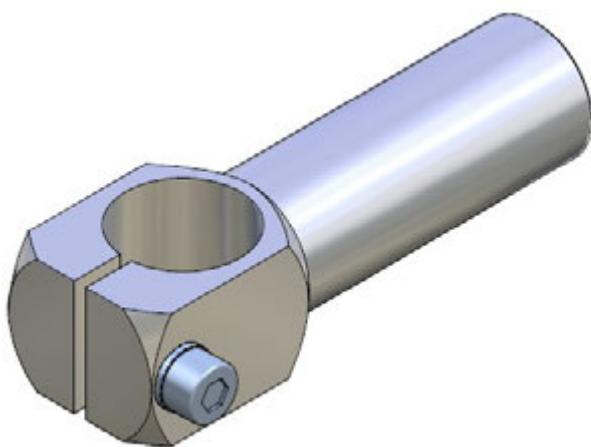


CA.04 WKA

. Angle gripper arm

Ø 10-14-20-30

. Giunto Fisso ad Angolo



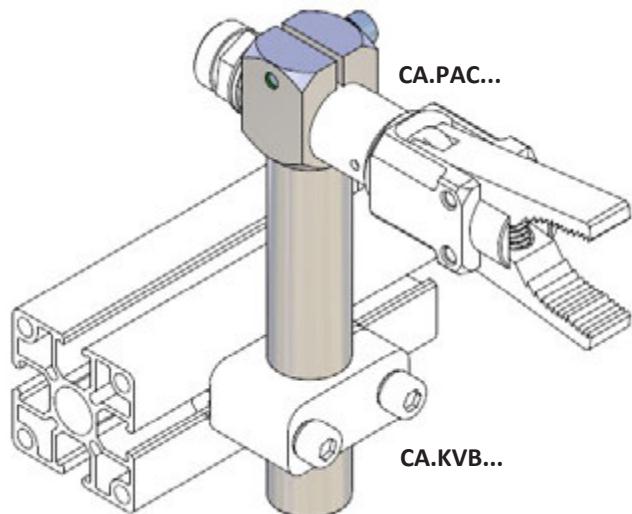
Remarks / Osservazioni:

Material / Materiali:
Aluminium / Alluminio

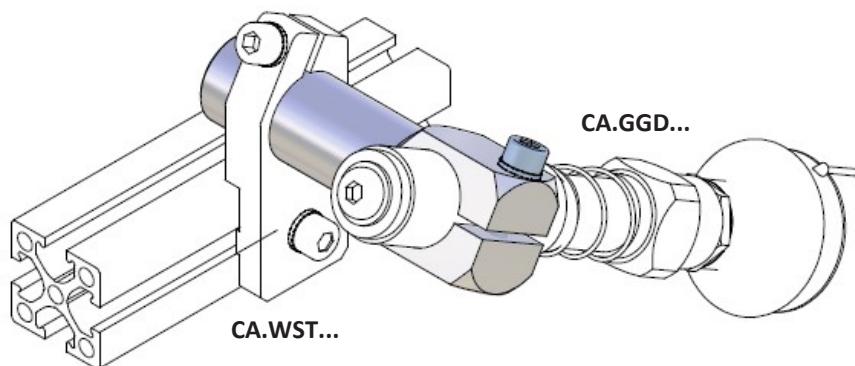
Surface: Silver anodized
Superficie: Argento anodizzato

Article no.	A	B	C	D	Weight
CA.WKA.10.10.30	10	10	30	8	13 g
CA.WKA.10.10.60			60		17 g
CA.WKA.10.10.90			90		22 g
CA.WKA.14.14.40	14	14	40	10	35 g
CA.WKA.14.14.80			80		48 g
CA.WKA.14.14.120			120		47 g
CA.WKA.20.20.50	20	20	50	12	78 g
CA.WKA.20.20.100			100		96 g
CA.WKA.20.20.150			150		136 g
CA.WKA.30.30.80	30	30	80	17	178 g
CA.WKA.30.30.140			140		278 g
CA.WKA.30.30.200			200		

Application examples / Esempi applicativi



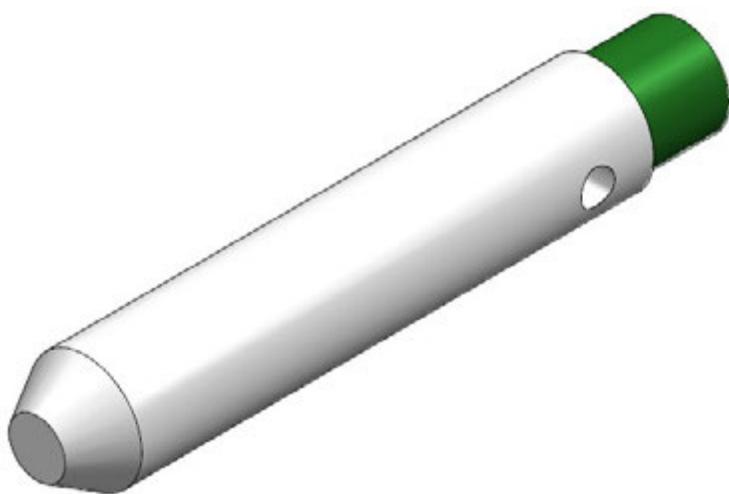
CA.L.../CA.X.../CA.JU...



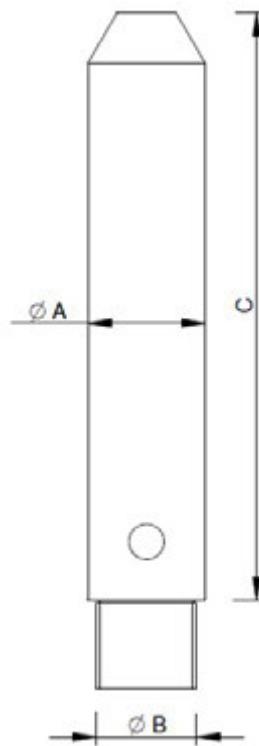
CA.L.../CA.X.../CA.JU...

CA.04 ZTB
Ø 10-14-20-30

. Centering pin



. Centratori

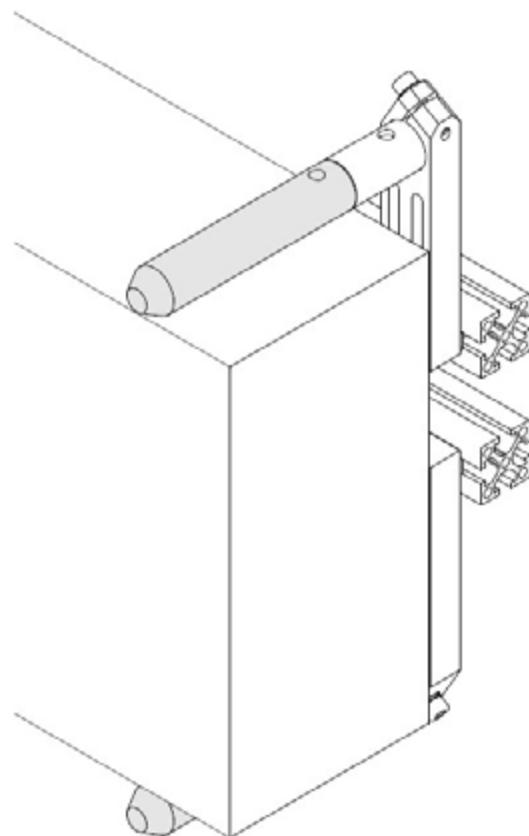

Table / Tabella
M = Suitable for...
 Applicabile a...

Remarks / Osservazioni:

 Centering pin made of POM
 Thread D2 allows the ZTB to connect to a VLR extension tube

Application example / Esempio applicativo
*I centratori sono fatti di POM
 Il filetto B permette al ZTB di collegarsi ad una prolunga VLR*
Material / Materiale:
 POM

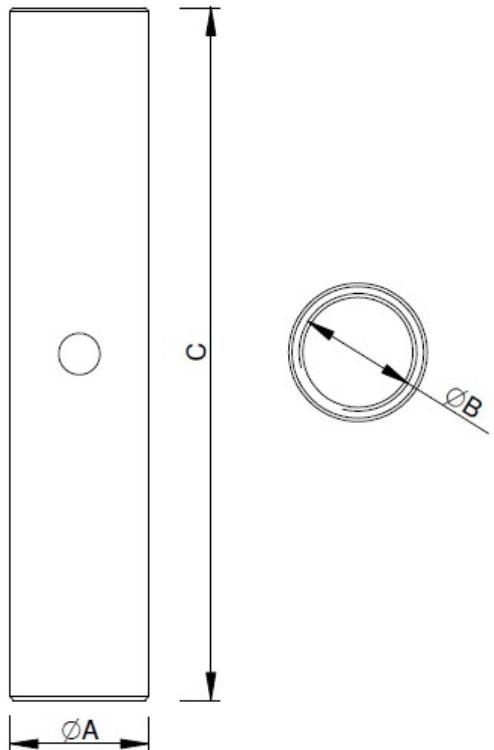
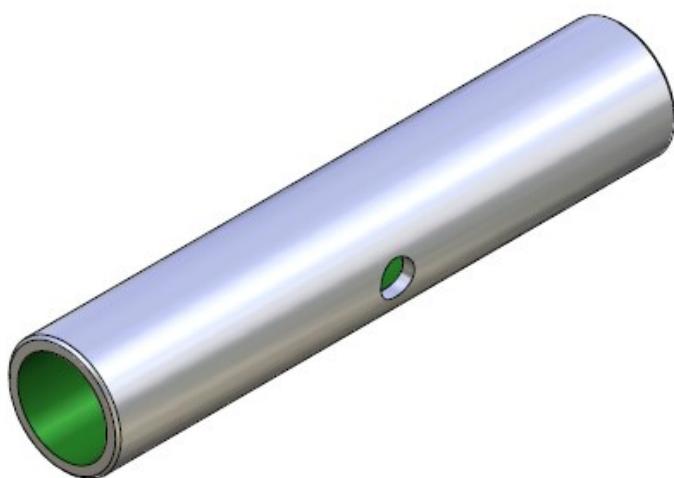
Article no.	A	B	C	M	Weight
CA.ZTB.1040	10	M8X1	40	CA.VLR.10	5 g
CA.ZTB.1060			60		7 g
CA.ZTB.1460	14	M12X1	CA.VLR.14	16 g	
CA.ZTB.1480			80		18 g
CA.ZTB.20100	20	M17X1	100	CA.VLR.20	47 g
CA.ZTB.30100	30		100		104 g



CA.04 VLR**Ø 10-14-20-30**

. Extension tube

. Prolunga



Remarks / Osservazioni:

Extension tubes are compatible with:
CA.ZTB - CA.GRF - CA.PAC - CA.AGP - CA.GRZ - CA.PMA

Le prolunghe sono compatibili con:
CA.ZTB - CA.GRF - CA.PAC - CA.AGP - CA.GRZ - CA.PMA

Material / Materiale :

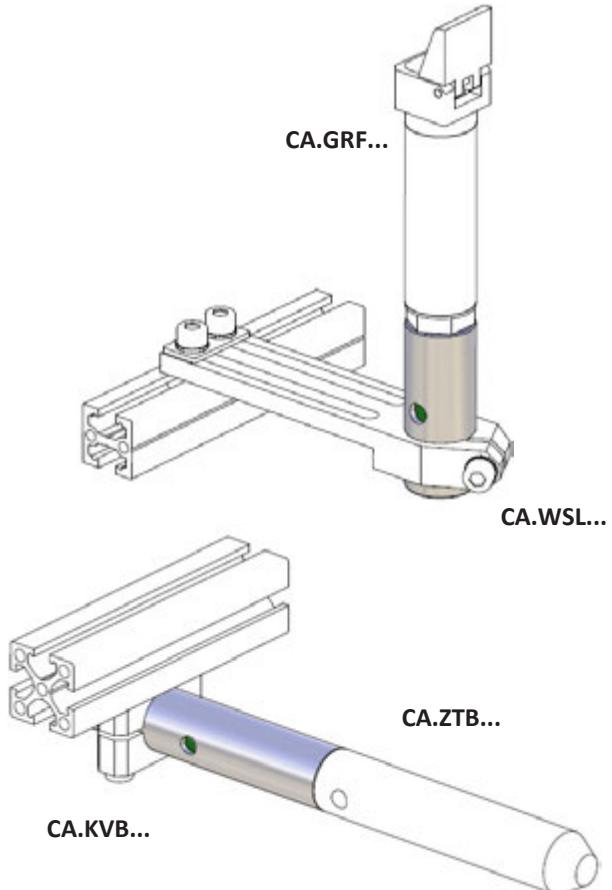
Aluminium / Alluminio

Surface: Silver anodized

Superficie: Argento anodizzato

Article no.	A	B	C	Weight
CA.VLR.10.30			30	3 g
CA.VLR.10.60	10	M8X1	60	6 g
CA.VLR.10.90			90	10 g
CA.VLR.14.40			40	6 g
CA.VLR.14.80	14	M12X1	80	13 g
CA.VLR.14.120			120	19 g
CA.VLR.20.50			50	15 g
CA.VLR.20.100	20	M17X1	100	31 g
CA.VLR.20.150			150	46 g
CA.VLR.30.80			80	38 g
CA.VLR.30.140	30	M27X1	140	67 g
CA.VLR.30.200			200	97 g

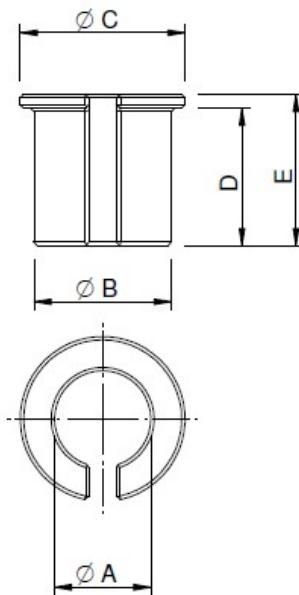
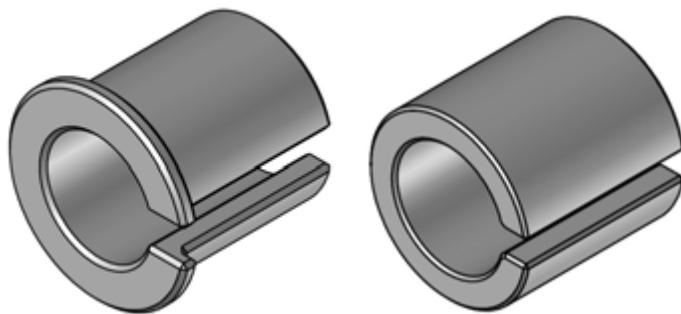
Application examples / Esempi applicativi



CA.04 RID

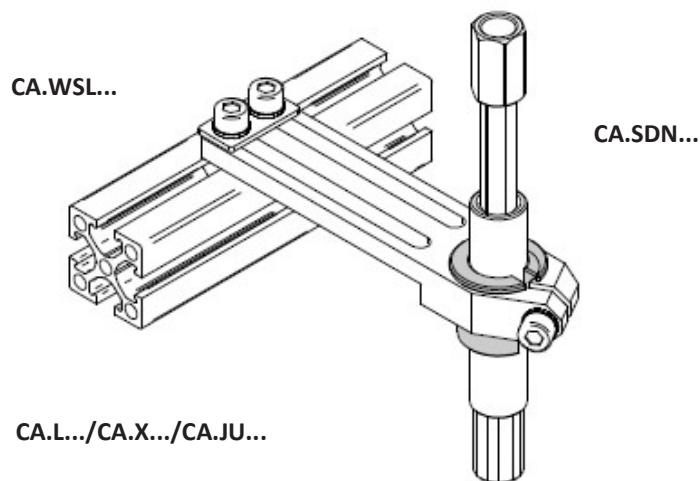
. Reducer

. Riduzione

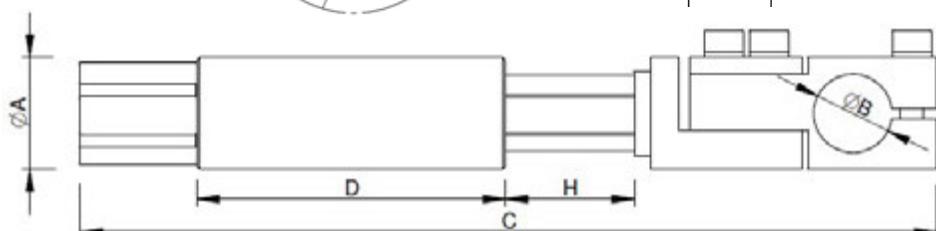
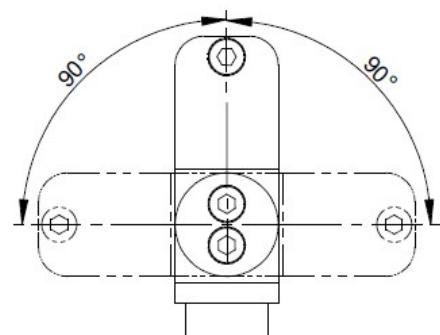
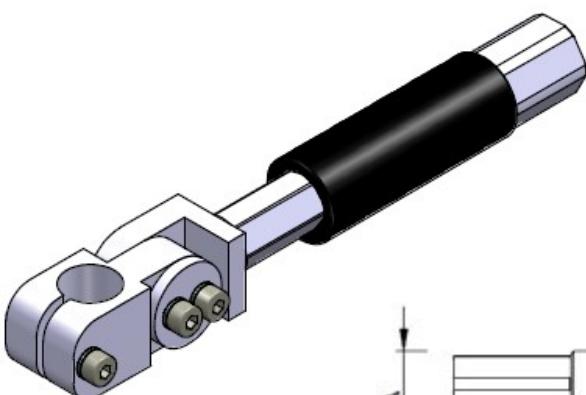


Article no.	A	B	C	D	E	Weight
CA.RID.1410	10	14	18	14	16	4 g
CA.RID.2014	14	20	24	20	22	9 g
CA.RID.3020	20	30	30	30	30	30 g

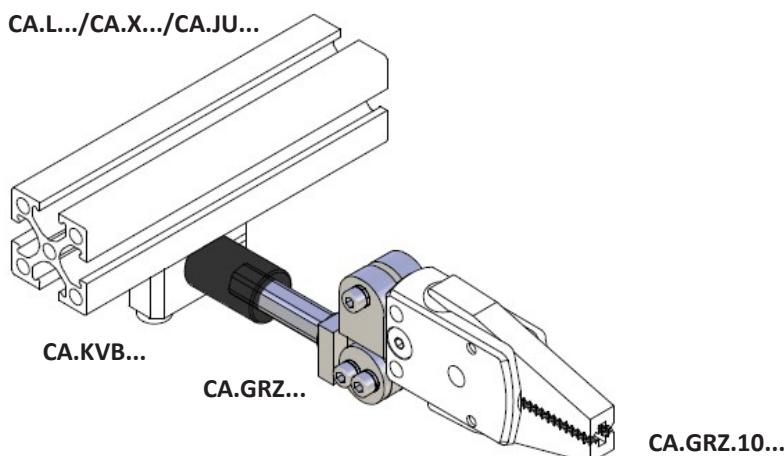
Application example / Esempio applicativo



Notes/*Note*

CA.05 SMN
Ø 14 - 20
. Smooth-body non-rotative suspension

Remarks / Osservazioni:
Material: Aluminium
Materiale: Alluminio
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta
Non rotational
Anti-Rotazionale

Article no.	A	B	C	D	H	Weight
CA.SMN.142010	14	10	129	42	20	43 g
CA.SMN.143510			160	60	35	50 g
CA.SMN.202514	20	14	150	55	25	95 g
CA.SMN.202520		20	163.5			103 g
CA.SMN.205014	20	14	208	82.5	50	100 g
CA.SMN.205020		20	221.5			109 g

Application examples / Esempi applicativi


CA.05 SMNG**Ø 14 - 20**

. Threaded-body non-rotative suspension

. Sospensione Anti-Rotazionale Filettata

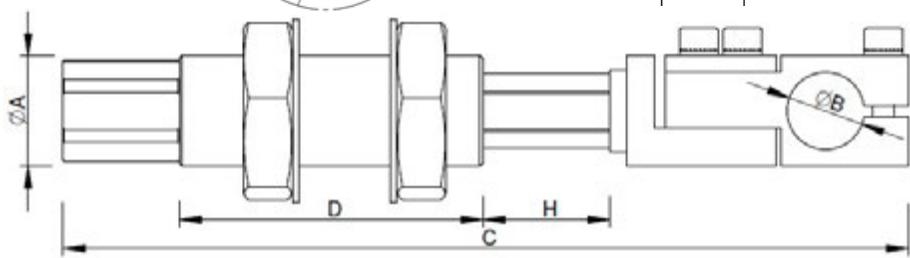
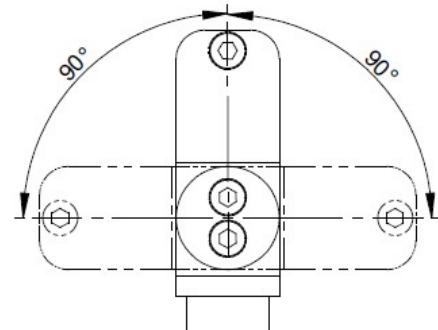
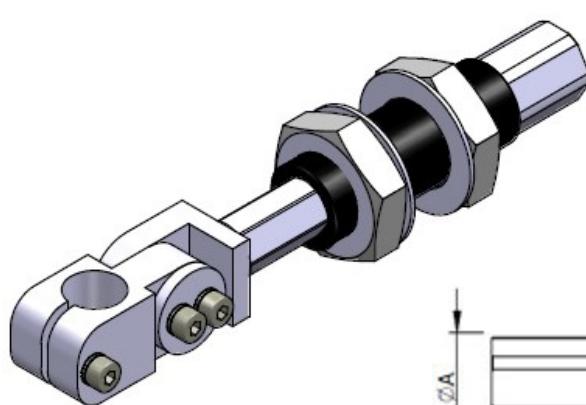


Table / Tabella

H = Spring deflection
Deflessione della molla

Remarks / Osservazioni:

Material: Aluminium
Materiale: Alluminio

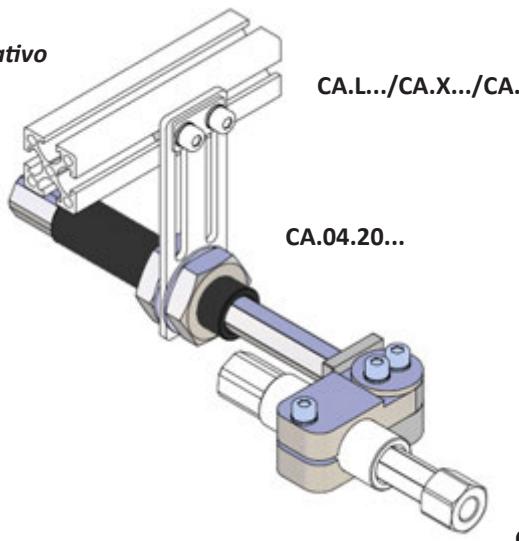
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Non rotational
Anti-Rotazionale

Article no.	A	B	C	D	H	Weight
CA.SMNG.142010	M14x1.5	10	129	42	20	55 g
CA.SMNG.143510			160	60	35	61 g
CA.SMNG.202514	M20x1.5	14	150	55	25	129 g
CA.SMNG.205014			208	82.5	50	134 g

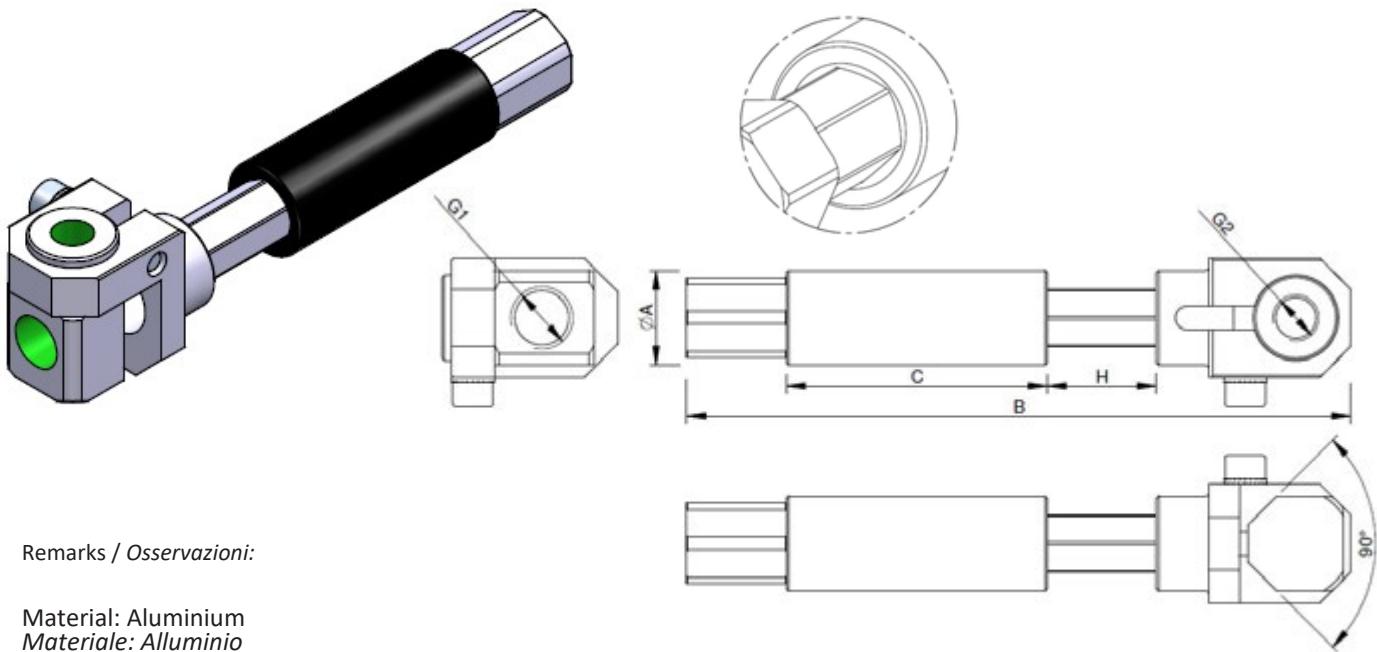
Application example / Esempio applicativo

C.A.L.../C.A.X.../C.A.JU...

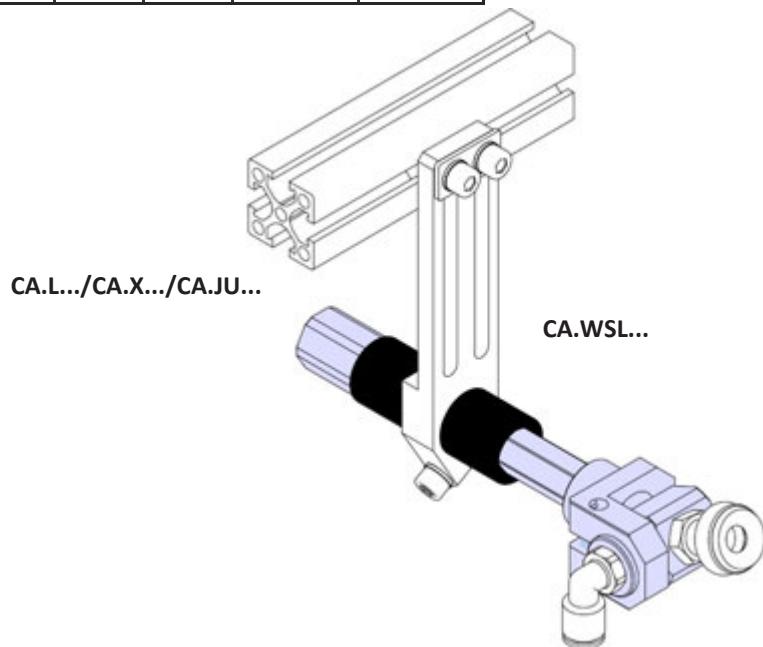


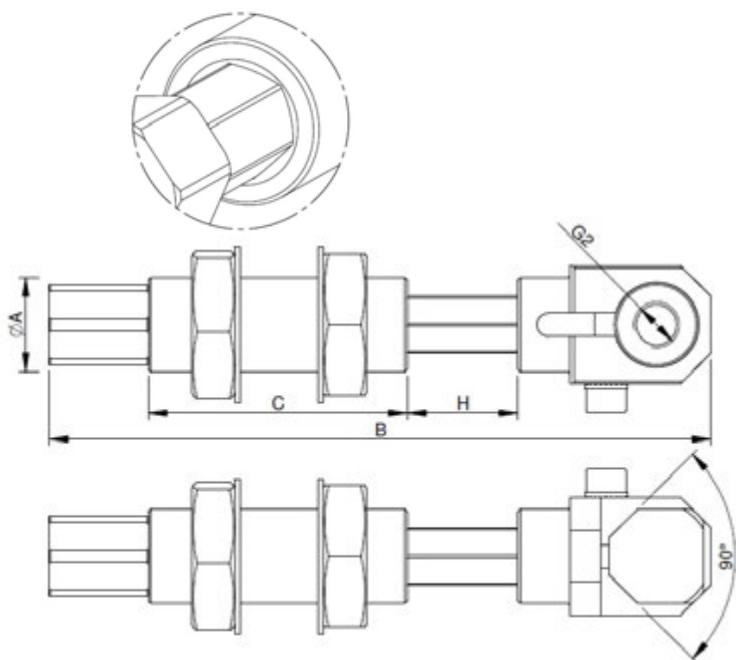
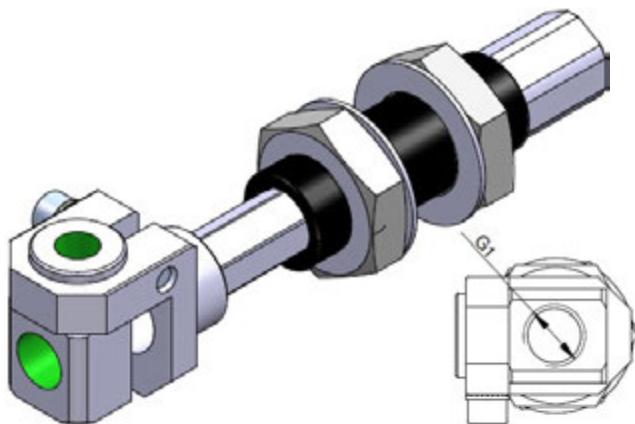
CA.04.20...

CA.SDNG...

CA.05 SSN
Ø 10 - 14 - 20
. Smooth-body non-rotative telescopic suspension
. Sospensione Anti-Rotazionale Liscia

Remarks / Osservazioni:
Material: Aluminium
Materiale: Alluminio
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta
Non rotational
Anti-Rotazionale
Table / Tabella
H = Spring deflection
Deflessione della molla

Article no.	A	B	C	G1	G2	H	F(N)	Weight
CA.SSN.10100505	10	56	21	M5	M5	10	3.6	19 g
CA.SSN.10250505		90.5	40.5			25	3.7	22 g
CA.SSN.14201818	14	98.5	38.5	G 1/8	G 1/4	20	8.9	45 g
CA.SSN.14351818		148	60			35	9.5	51 g
CA.SSN.20251418	20	110	49			25	11	105 g
CA.SSN.20501418		167.5	81.5			50	11.4	110 g

Application example / Esempio applicativo


CA.05 SSNG**Ø 10 - 14 - 20****. Threaded-body non-rotative suspension****. Sospensione Anti-Rotazionale Filettata**

Remarks / Osservazioni:

Material: Aluminium
Materiale: AlluminioGuide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protettaNon rotational
Anti-Rotazionale

Table / Tabella

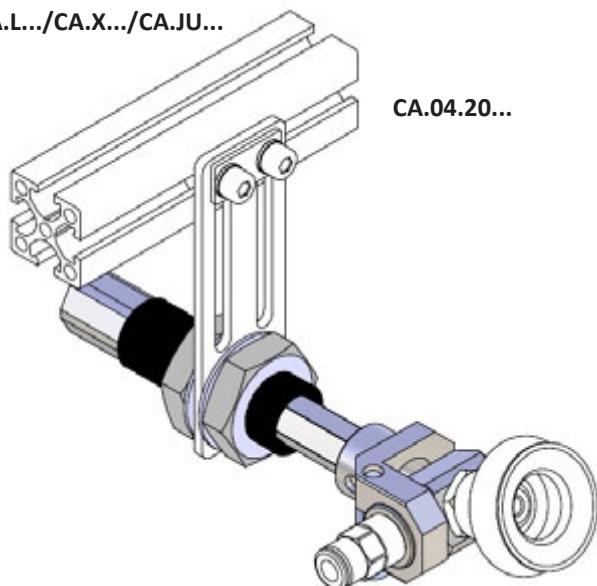
H = Spring deflection
Deflessione della molla

Article no.	A	B	C	G1	G2	H	F(N)	Weight
CA.SSNG.10100505	M10X1	56	21	M5	M5	10	3.6	25 g
CA.SSNG.10250505		90.5	40.5			25	3.7	28 g
CA.SSNG.14201818	M14X1.5	98.5	38.5	G 1/8	G 1/8	20	8.9	57 g
CA.SSNG.14351818		148	60			35	9.5	63 g
CA.SSNG.20251418	M20X1.5	110	49	G 1/4		25	11	139 g
CA.SSNG.20501418		167.5	81.5			50	11.4	144 g

Application example / Esempio applicativo

CA.L.../CA.X.../CA.JU...

CA.04.20...



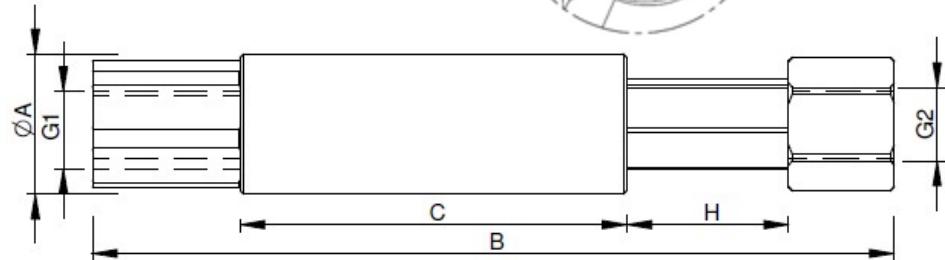
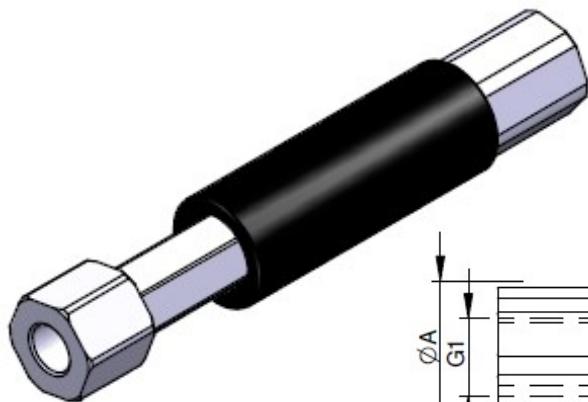
CA.05 SDN
Ø 10 - 14 - 20
. Smooth-body non-rotative telescopic suspension
. Sospensione Anti-Rotazionale Liscia


Table / Tabella

H = Spring deflection
Deflessione della molla

F = Spring force
Forza della molla

Remarks / Osservazioni:

Material / Materiali:
Aluminium / Alluminio

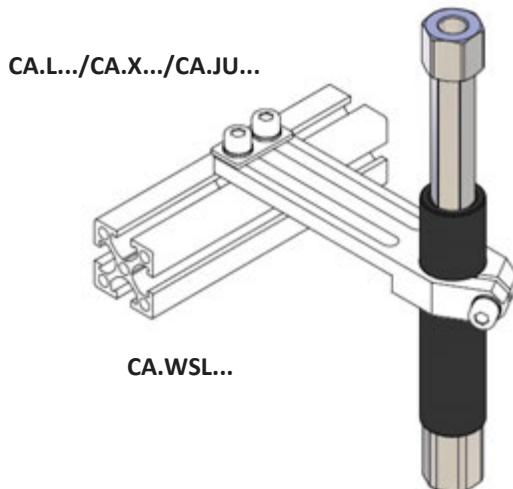
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Non rotational
Anti-Rotazionale

New

Article no.	A	B	C	G1	G2	H	F(N)	Weight
CA.SDN.1010	10	60.5	26.5	M5	M5	10	3.6	8 g
CA.SDN.1025		89.5	41.5			25	3.7	11 g
CA.SDN.1420	14	102.5	42	G 1/8	G 1/8	20	8.9	25 g
CA.SDN.1435		135	60			35	9.5	31 g
CA.SDN.2025	20	114	55			25	11	65 g
CA.SDN.2050		169	82.5			50	11.4	71 g
CA.SDN.2025.14		114	55	G 1/4	G1/4	25		62 g
CA.SDN.2050.14		167	82.5			50		67 g

Application example / Esempio applicativo



CA.05 SDNG**Ø 10 - 14 - 20**

. Threaded-body non-rotative suspension

. Sospensione Anti-Rotazionale Filettata

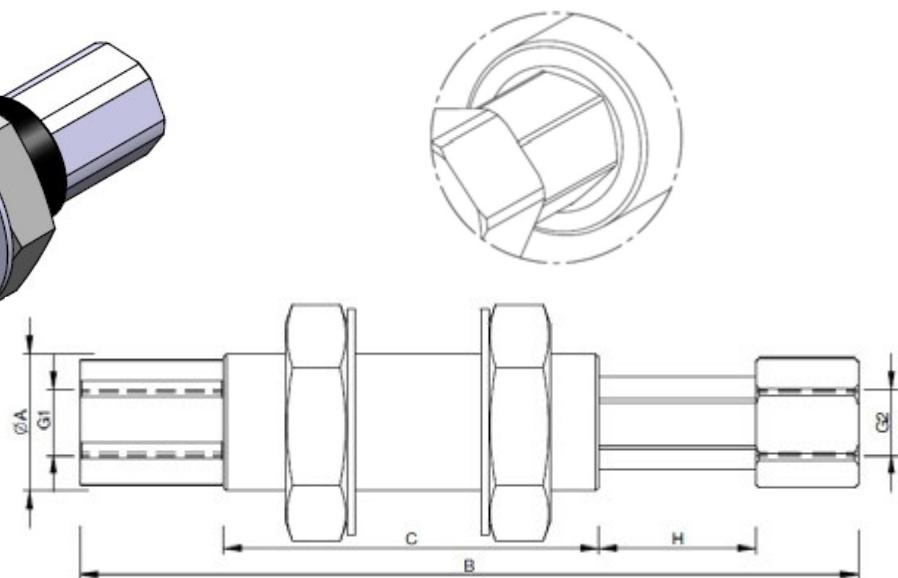
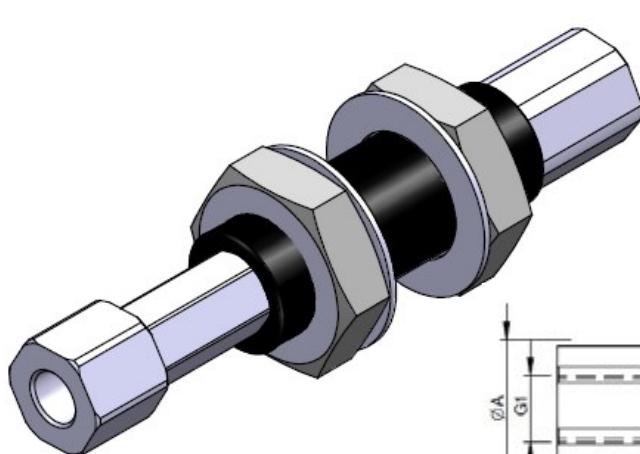


Table / Tabella

H = Spring deflection
Deflessione della molla

Remarks / Osservazioni:

Material / Materiali:
Aluminium / Alluminio

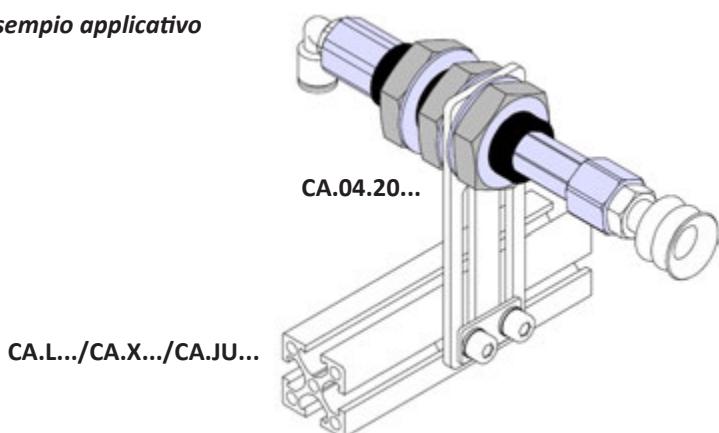
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Non rotational
Anti-Rotazionale

New

Article no.	A	B	C	G1	G2	H	F(N)	Weight
CA.SDNG.1010	M10X1	61.5	26.5	M5	M5	10	3.6	13 g
CA.SDNG.1025		91.5	41.5			25	3.7	16 g
CA.SDNG.1420	M14X1.5	105	42	G 1/8	G 1/8	20	8.9	37 g
CA.SDNG.1435		135	60			35	9.5	43 g
CA.SDNG.2025	M20X1.5	114	55			25	11	94 g
CA.SDNG.2050		174	82.5			50	11.4	115 g
CA.SDNG.2025.14		114	55	G 1/4	G1/4			96 g
CA.SDNG.2050.14		174	82.5					101 g

Application example / Esempio applicativo



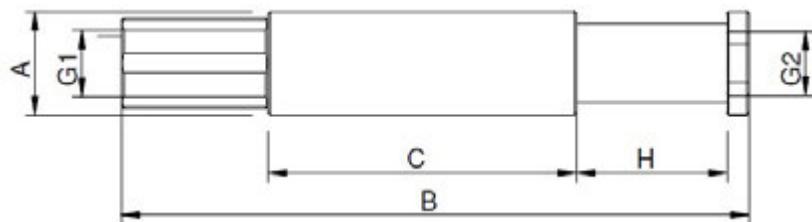
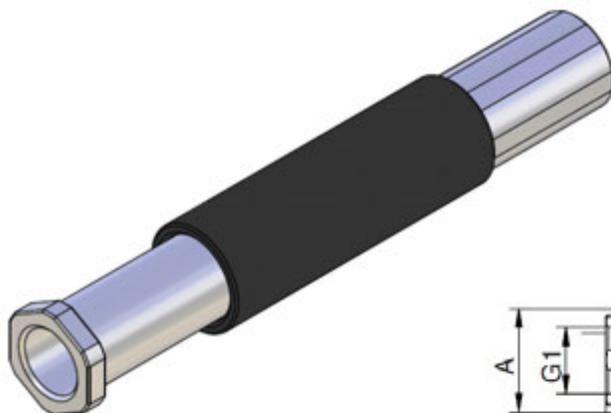
CA.05 SDR
Ø 10 - 14 - 20
. Smooth-body rotative telescopic suspension
. Sospensione rotazionale Liscia


Table / Tabella

H = Spring deflection
Deflessione della molla
F = Spring force
Forza della molla

Remarks / Osservazioni:

Material / Materiali:
Aluminium / Alluminio

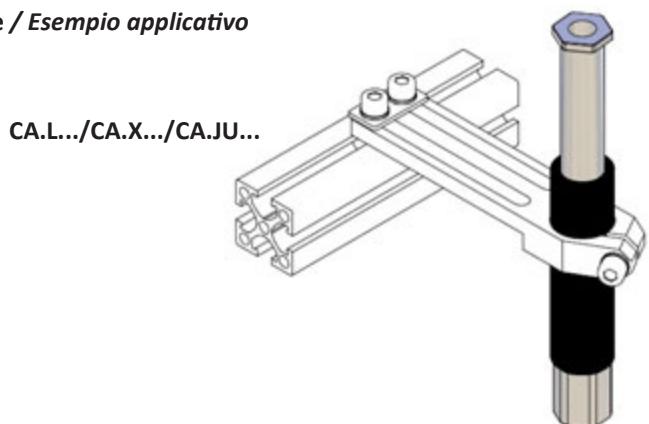
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Rotational
Rotazionale

New

Article no.	A	B	C	G1	G2	H	F(N)	Weight
CA.SDR.1010	10	51	20.5	M5	M5	10	3.6	7 g
CA.SDR.1025		86	40.5			25	3.7	11 g
CA.SDR.1420	14	85.5	42	G 1/8	G 1/8	20	8.9	19 g
CA.SDR.1435		120.5	62			35	9.5	25 g
CA.SDR.2025	20	97	47.5			25	11	55 g
CA.SDR.2050		147	72.5		M10	50	11.4	73 g
CA.SDR.2025.14		107	47.5	G1/4	G1/4	25		56 g
CA.SDR.2050.14		157	72.5			50		76 g

Application example / Esempio applicativo



CA.05 SDRG**Ø 10 - 14 - 20**

. Threaded-body rotative telescopic suspension

. Sospensione rotazionale Filettata

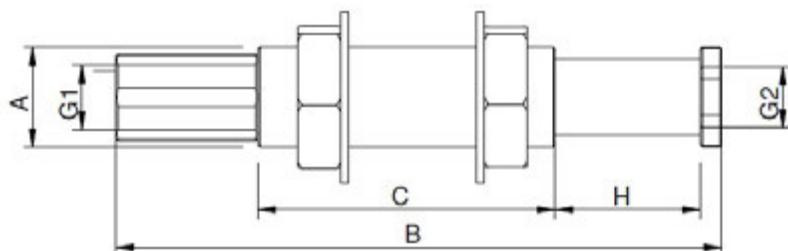
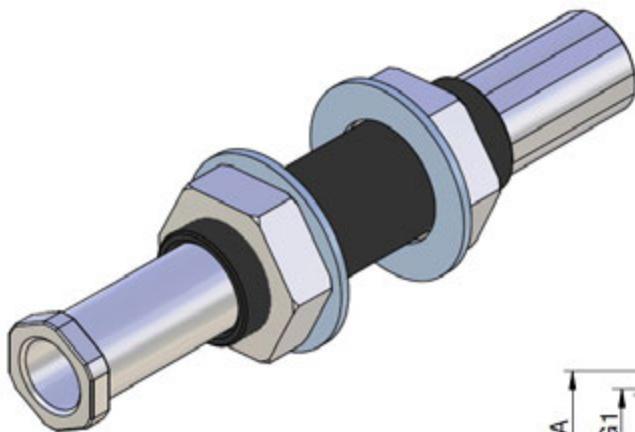


Table / Tabella

H = Spring deflection
Deflessione della molla

F = Spring force
Forza della molla

Remarks / Osservazioni:

Material/ Materiali:
 Aluminium / Alluminio

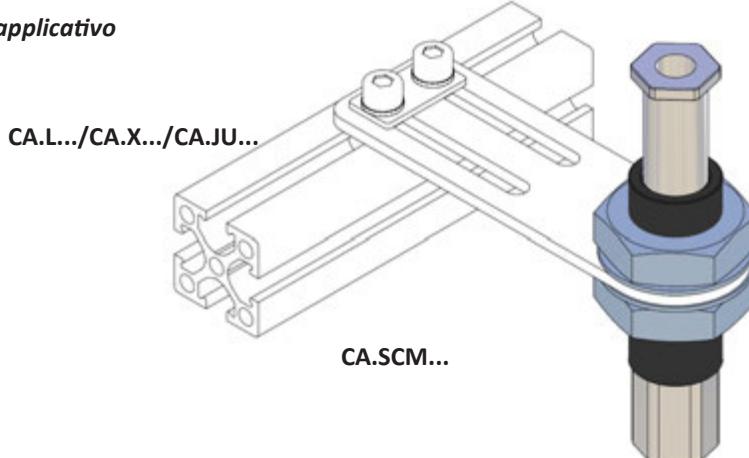
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Rotational
Rotazionale

Article no.	A	B	C	G1	G2	H	F(N)	Weight
CA.SDRG.1010	M10X1	51	20.5	M5	M5	10	3.6	12 g
CA.SDRG.1025		86	40.5			25	3.7	16 g
CA.SDRG.1420	M14X1.5	85.5	42	G 1/8	G 1/8	20	8.9	27 g
CA.SDRG.1435		120.5	62			35	9.5	33 g
CA.SDRG.2025	M20X1.5	97	47.5			25	11	81 g
CA.SDRG.2050		147	72.5			M10	50	11.4
CA.SDRG.2025.14		107	47.5	G1/4	G1/4	25		90 g
CA.SDRG.2050.14		157	72.5			50		110 g

New

Application example / Esempio applicativo



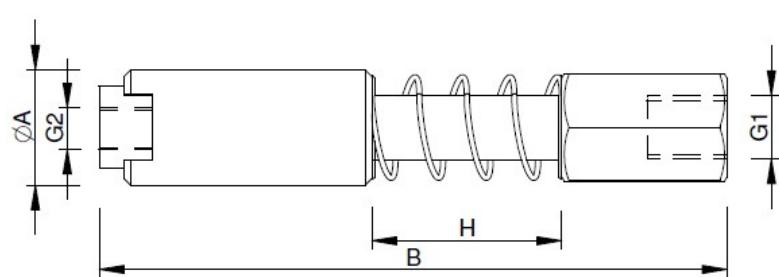
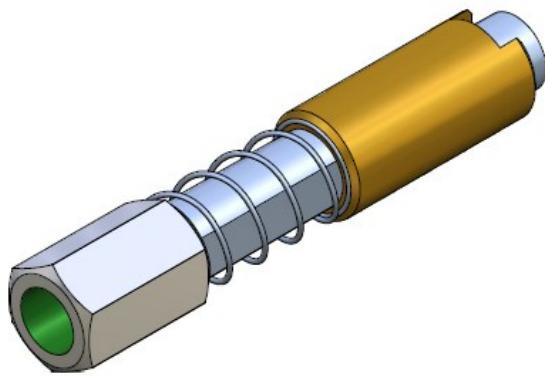
CA.05.02
Ø 10-14-20
. Spring loaded vacuum cup arm (Non-rotational shaft)
. Sospensione Anti-Rotazionale


Table / Tabella

H = Spring deflection
Deflessione della molla
F = Spring force
Forza della molla

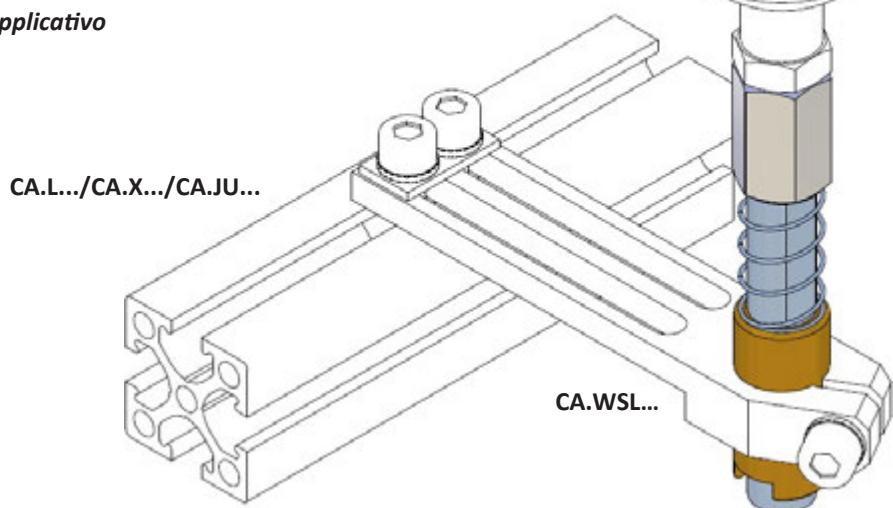
Remarks / Osservazioni:

Material: Brass
Materiale: Ottone

Non rotational
Anti-Rotazionale

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.05.02.002	20	125	G 1/4	G 1/8	48	16.6	155 g
CA.05.02.004		100			25	18.4	135 g
CA.05.02.009		69			20	3.4	
CA.05.02.009.6N						6	26 g
CA.05.02.010		59	M5		10	4.8	
CA.05.02.010.6N						6	23 g
CA.05.02.011	14	100	G 1/8		38	23.3	63 g
CA.05.02.012		76			17	20.7	52 g

Application example / Esempio applicativo



CA.05.01**Ø 10-14-20**

. Spring loaded vacuum cup arm (Non-rotational shaft)

. Sospensione Anti-Rotazionale

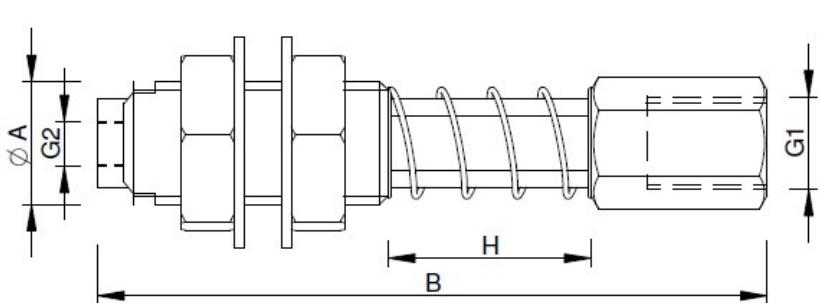
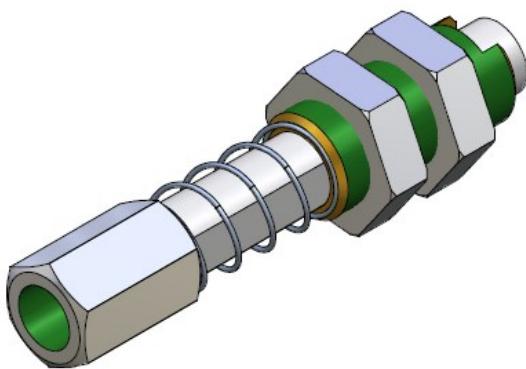


Table / Tabella

H = Spring deflection
Deflessione della molla

Threaded tube

F = Spring force
Forza della molla

Tubo Filettato

Remarks / Osservazioni:

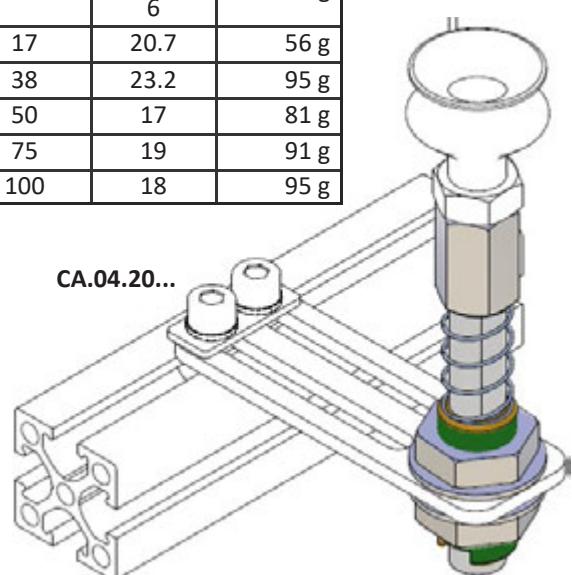
Material: Brass
Materiale: Ottone

Non rotational
Anti-Rotazionale

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.05.01.001	M14x1.5	100	G 1/8	M5	38	23.2	71 g
CA.05.01.002	M20x1.5	125	G 1/4	G 1/8	48	16.7	183 g
CA.05.01.003	M14x1.5	76	G 1/8	M5	17	20.7	58 g
CA.05.01.004	M20x1.5	100	G 1/4	G 1/8	25	18.4	163 g
CA.05.01.005	M10x1	70	M5		20	3.4	36 g
CA.05.01.005.6N					6	6	
CA.05.01.006					10	4.8	33 g
CA.05.01.006.6N					17	6	
CA.05.01.010	M16x1.5	97	G 1/8	M5	20.7	56 g	
CA.05.01.011					38	23.2	95 g
CA.05.01.50					50	17	81 g
CA.05.01.75	M14x1.5	153			75	19	91 g
CA.05.01.100					100	18	95 g

Application example / Esempio applicativo

CA.L.../CA.X.../CA.JU...



CA.05 GGS
Ø 10-14-20

. Spring loaded vacuum cup arm (Non-rotational shaft)

. Supporto Ammortizzato Anti-Rotazionale

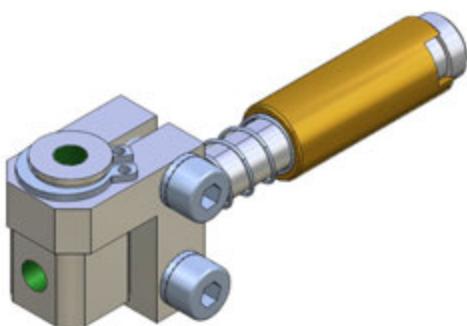
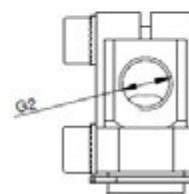
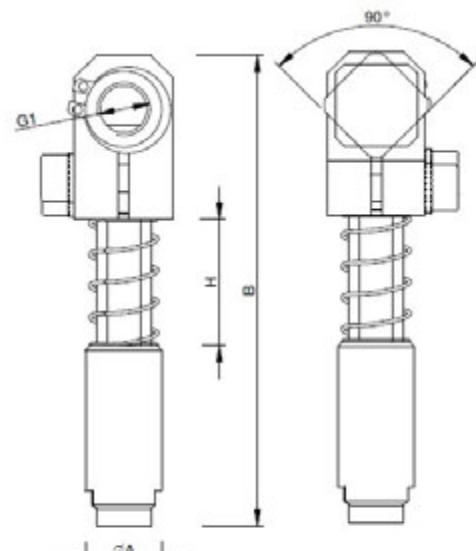


Table / Tabella

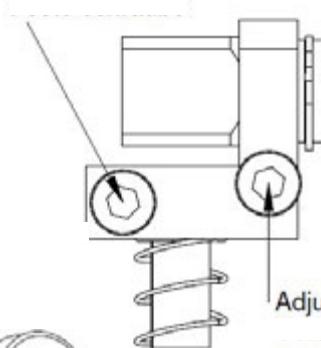
H = Spring deflection
Deflessione della molla
F = Spring force
Forza della molla

Remarks / Osservazioni:

 Material: Brass
Materiale: Ottone

 Non rotational
Anti-Rotazionale


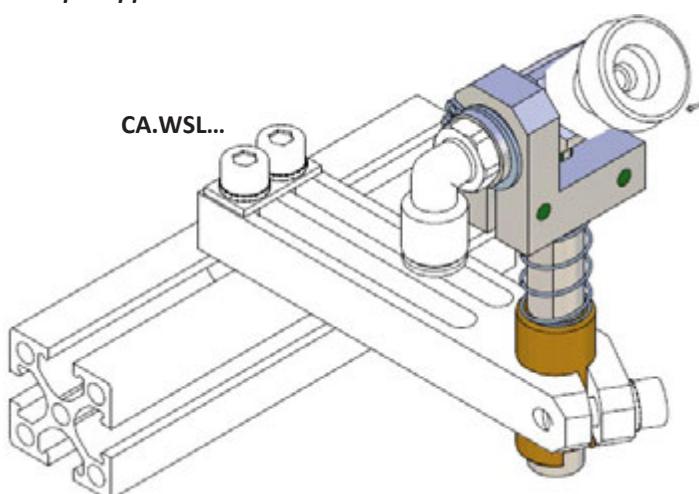
Fixed screw



Adjustable screw

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.GGS100515	10	69	M5	M5	10	3.6	37 g
CA.GGS100520		79			20	6	40 g
CA.GGS100530		98			30	8.6	45 g
CA.GGS141815	14	86	G 1/8	G 1/8	17	20.7	82 g
CA.GGS141840		110			38	23.3	89 g
CA.GGS201425	20	116	G 1/4	G 1/4	23	18.4	196 g
CA.GGS201445		141			45	16.7	206 g

Application example / Esempio applicativo



CA.L.../CA.X.../CA.JU...

CA.05 GGSM**Ø 10-14-20**

. Spring loaded vacuum cup arm (Non-rotational shaft)

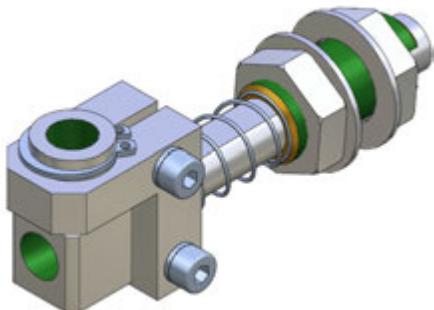
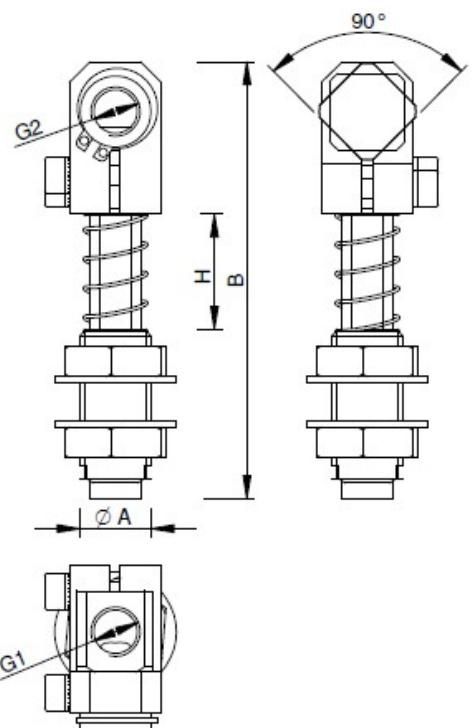


Table / Tabella

H = Spring deflection
Deflessione della molla**F** = Spring force
Forza della mollaThreaded tube
Tubo Filettato

. Supporto Ammortizzato Anti-Rotazionale

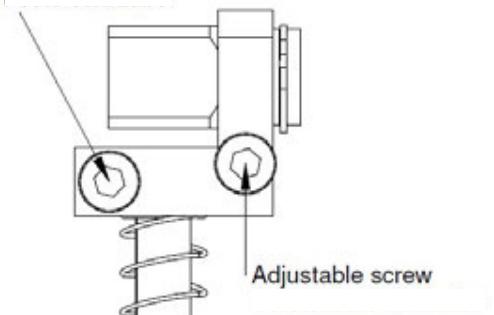


Remarks / Osservazioni:

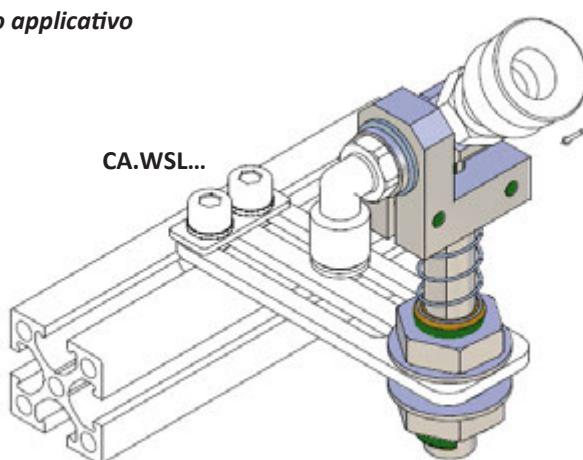
Material: Brass
Materiale: OttoneNon rotational
Anti-Rotazionale

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.GGSM100515	M10X1	69	M5	M5	10	6	42g
CA.GGSM100520		79			20		45g
CA.GGSM100530		98			30	8.6	50g
CA.GGSM141815	M14X1.5	86	G 1/8	G 1/8	17	20.7	85 g
CA.GGSM141840		110			38	23.3	101 g
CA.GGSM201425		116			23	18.4	216 g
CA.GGSM201445	M20X1.5	141	G 1/4		45	16.7	242 g

Fixed screw



Application example / Esempio applicativo



CA.L.../CA.X.../CA.JU...

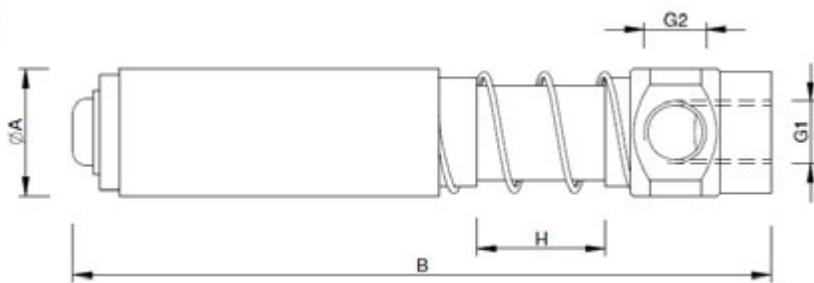
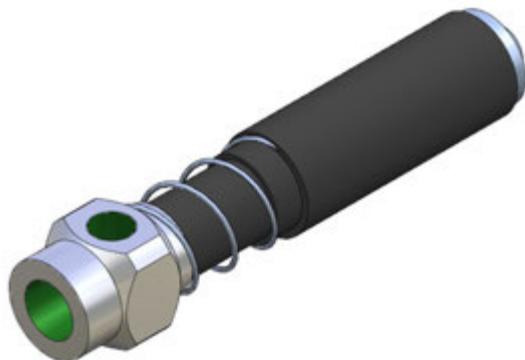
CA.05 GGD
Ø 10-14-20
. Spring loaded vacuum cup arm
. Supporto Ammortizzato


Table / Tabella

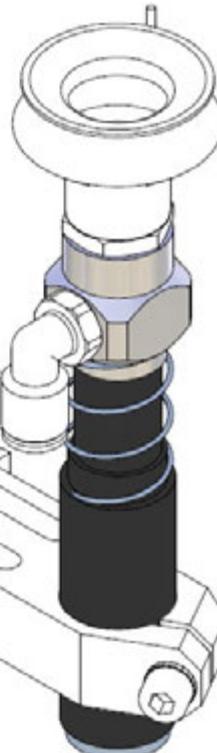
H = Spring deflection
Deflessione della molla
F = Spring force
Forza della molla

Remarks / Osservazioni:

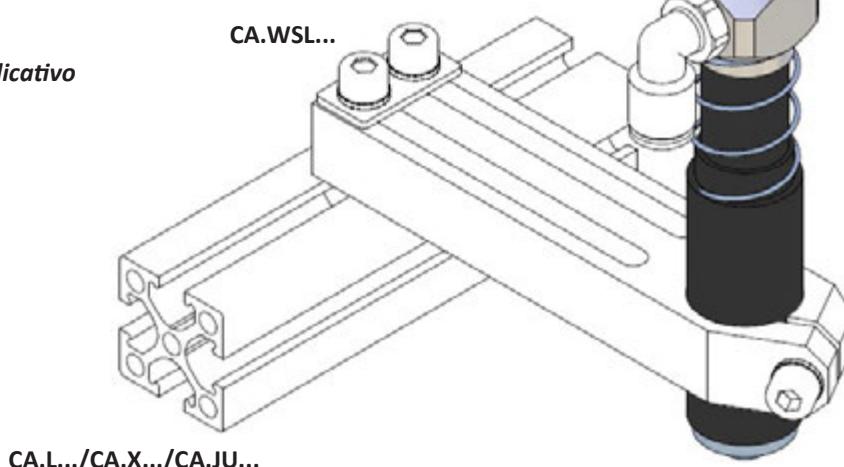
Extremely light weight (Material Aluminium)
Peso estremamente leggero (Materiale Alluminio)

Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.GGD.10050510	10	59	M5	M5	10	8	11 g
CA.GGD.10050530		85			30	11	15 g
CA.GGD.14181815	14	86	G 1/8	G 1/8	15	9	33 g
CA.GGD.14181840		111			40	14.6	38 g
CA.GGD.20141820	20	109			20	11.7	76 g
CA.GGD.20141850		147			50	16.8	92 g



Application example / Esempio applicativo



CA.05 GGDG**Ø 10-14-20**

. Spring loaded vacuum cup arm (Threaded tube)

. Supporto Ammortizzato con Filetto

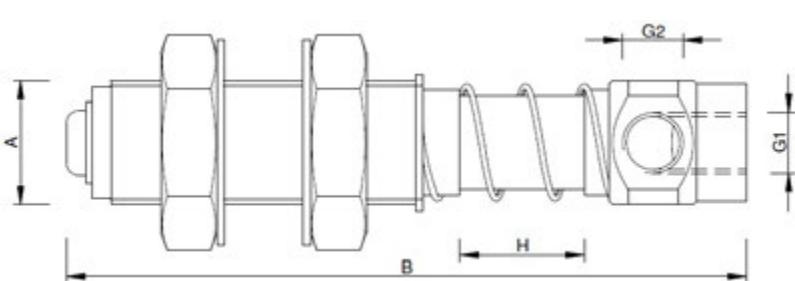
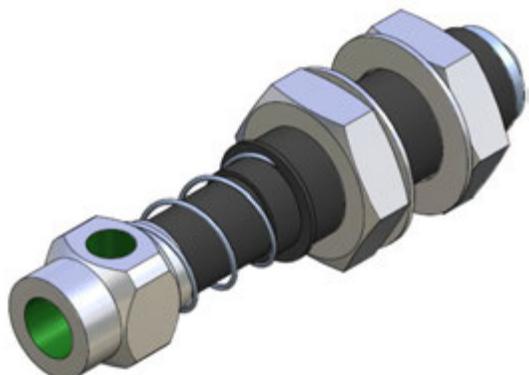


Table / Tabella

H = Spring deflection
Deflessione della molla

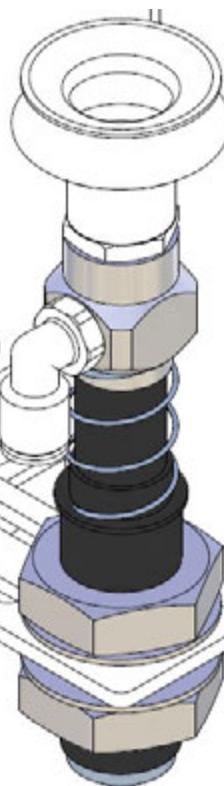
F = Spring force
Forza della molla

Remarks / Osservazioni:

Extremely light weight (Material Aluminium)
Peso estremamente leggero (Materiale Alluminio)

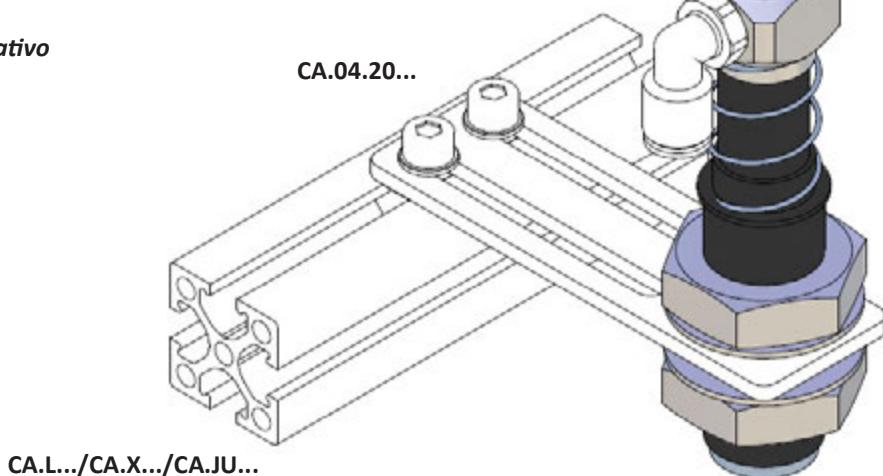
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Article no.	A	B	G1	G2	H	F(N)	Weight	
CA.GGDG.10050510	M10x1	59	M5	M5	10	8	17 g	
CA.GGDG.10050530		85			30	11	20 g	
CA.GGDG.14181815	M14x1.5	86	G 1/8	G 1/8	15	9	43 g	
CA.GGDG.14181840		111			40	14.6	48 g	
CA.GGDG.20141820	M20x1.5	109	G 1/4		20	11.7	110 g	
CA.GGDG.20141850		147			50	16.8	126 g	

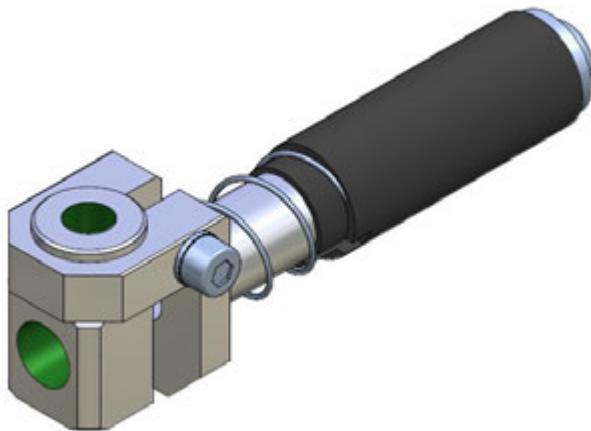
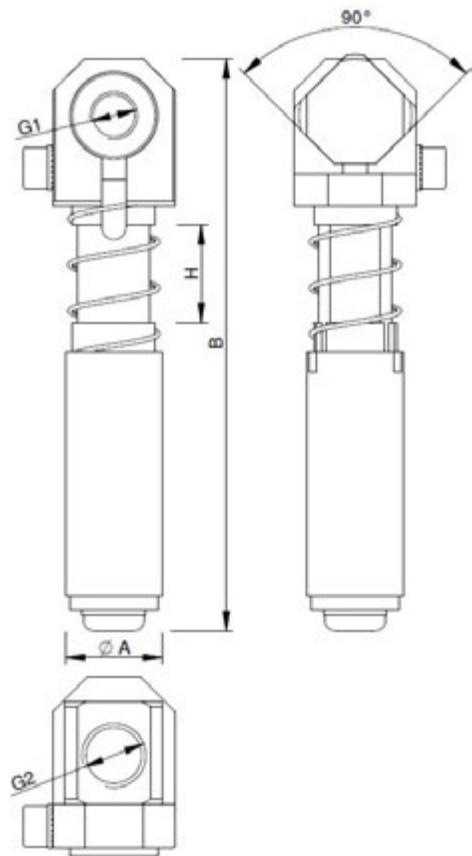


Application example / Esempio applicativo

CA.04.20...



CA.L.../CA.X.../CA.JU...

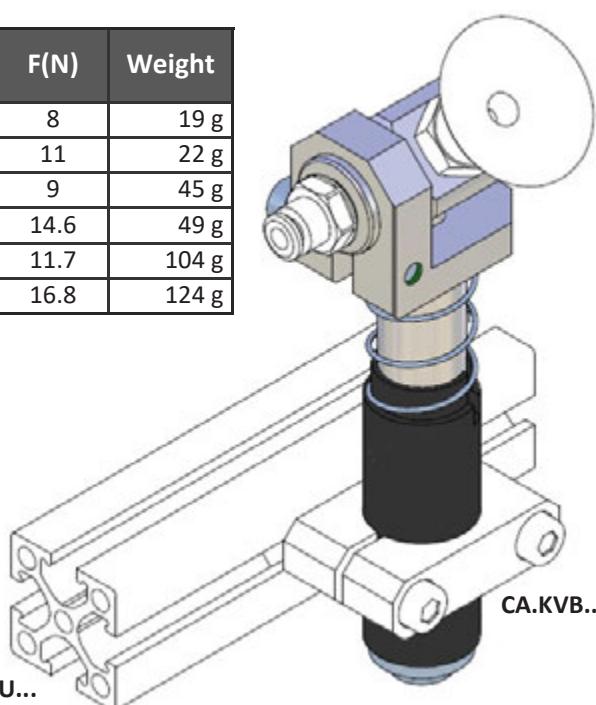
CA.05 GGV
Ø 10-14-20
. Spring loaded vacuum cup arm (Non-rotational shaft)

. Supporto Ammortizzato Anti-Rotazionale

Table / Tabella
H = Spring deflection
Deflessione della molla
F = Spring force
Forza della molla
Remarks / Osservazioni:

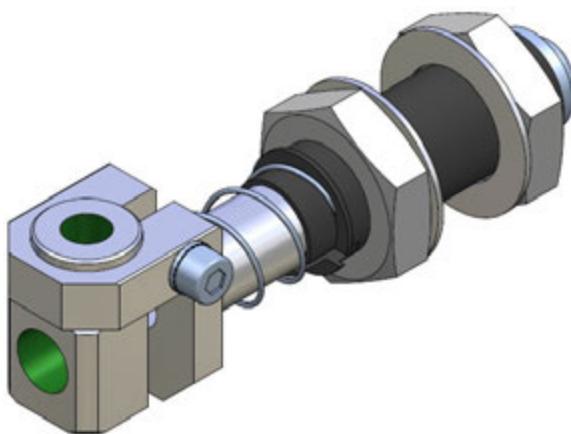
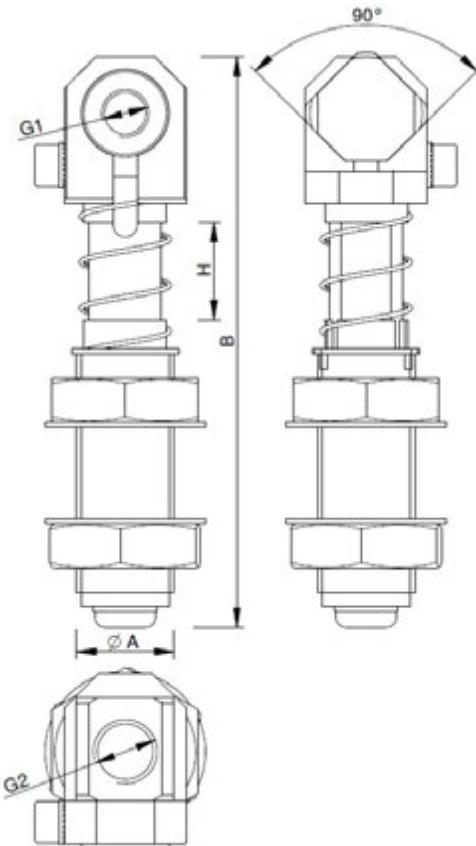
Extremely light weight (Material Aluminium)
Peso estremamente leggero (Materiale Alluminio)

Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

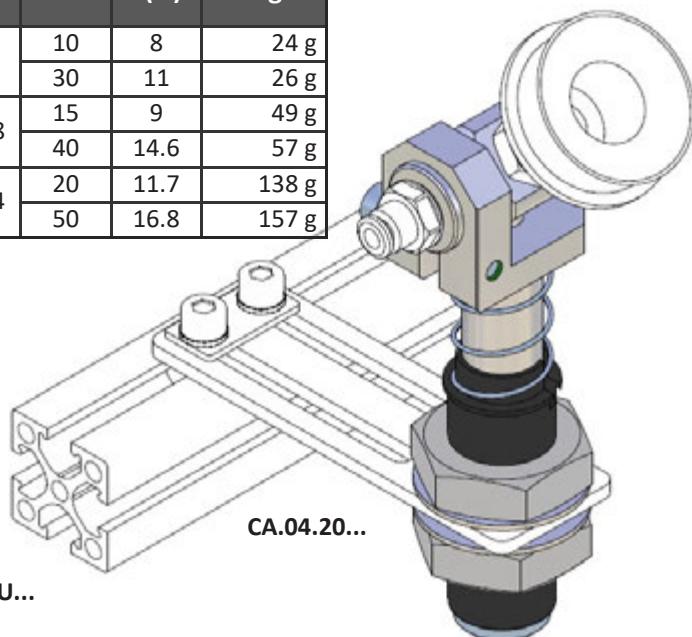
Non rotational
Anti-Rotazionale

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.GGV.10050510	10	64	M5	M5	10	8	19 g
CA.GGV.10050530		90			30	11	22 g
CA.GGV.14181815	14	91	G 1/8	G 1/8	15	9	45 g
CA.GGV.14181840		116			40	14.6	49 g
CA.GGV.20141820	20	117		G 1/4	20	11.7	104 g
CA.GGV.20141850		155			50	16.8	124 g

Application example / Esempio applicativo


CA.05 GGVG**Ø 10-14-20****. Spring loaded vacuum cup arm****. Supporto Filettato Ammortizzato Anti-Rotazionale****Table / Tabella****H = Spring deflection**
*Deflessione della molla***F = Spring force**
*Forza della molla***Remarks / Osservazioni**Extremely light weight (Material Aluminium)
*Peso estremamente leggero (Materiale Alluminio)*Guide (Tube and shaft) hard coated
*Guida (Tubo e Asta) fortemente protetta*Non rotational
Anti-Rotazionale

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.GGVG.10050510	M10x1	64	M5	M5	10	8	24 g
CA.GGVG.10050530		90			30	11	26 g
CA.GGVG.14181815	M14x1.5	91	G 1/8	G 1/8	15	9	49 g
CA.GGVG.14181840		116			40	14.6	57 g
CA.GGVG.20141820	M20x1.5	117			20	11.7	138 g
CA.GGVG.20141850		155			50	16.8	157 g

Application example / Esempio applicativo

CA.05 GGVE
Ø 10-14-20

. Spring loaded vacuum cup arm easy (Non-rotational shaft)

. Supporto Ammortizzato Anti-Rotazionale Easy

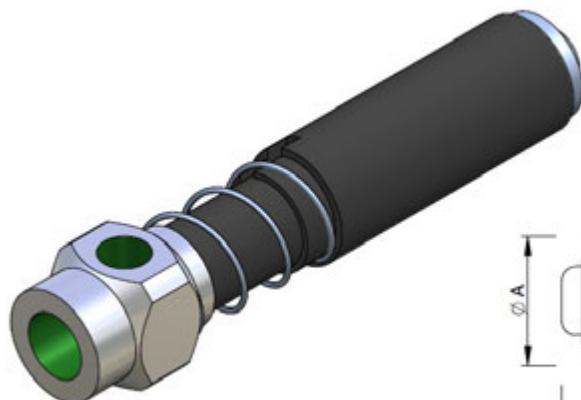
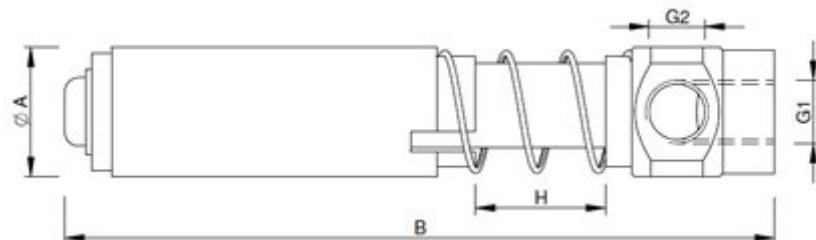


Table / Tabella


H = Spring deflection
Deflessione della molla
F = Spring force
Forza della molla

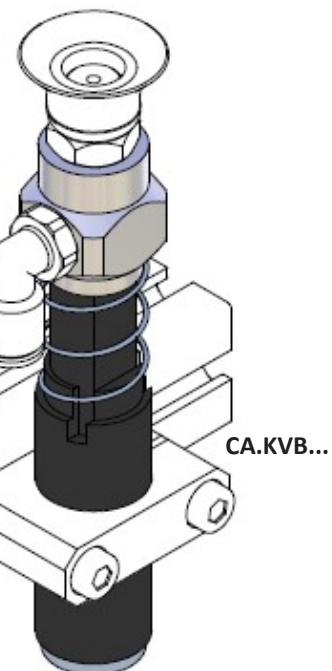
Remarks / Osservazioni:

 Extremely light weight (Material Aluminium)
Peso estremamente leggero (Materiale Alluminio)

 Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

 Non rotational
Anti-Rotazionale

Article no.	A	B	G1	G2	H	F(N)	Weight
CA.GGVE.10050510	10	59	M5	M5	10	8	11 g
CA.GGVE.10050530		85			30	11	15 g
CA.GGVE.14181815	14	86	G 1/8	G 1/8	15	9	33 g
CA.GGVE.14181840		111			40	14.6	37 g
CA.GGVE.20141820	20	109	G 1/4		20	11.7	75 g
CA.GGVE.20141850		147			50	16.8	95 g



Application example / Esempio applicativo

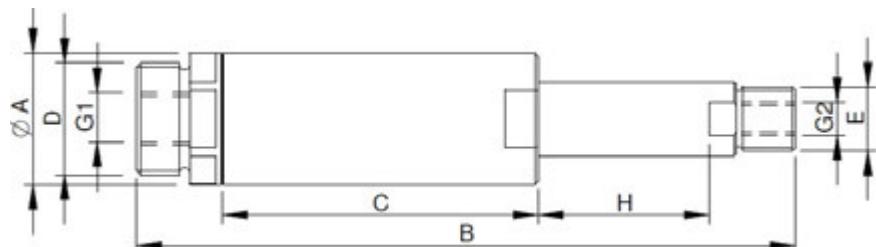
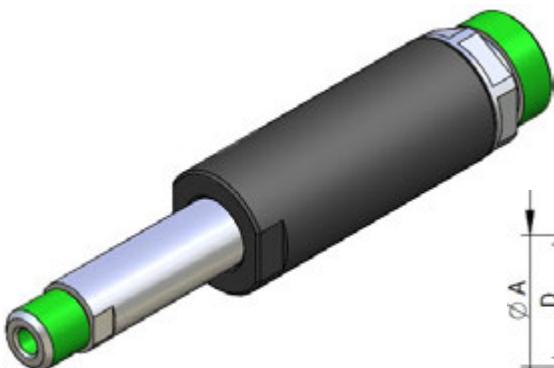
CA.05 SAR**Ø 20****. Telescopic self-retracting suspension****. Sospensione Auto Retrattile**

Table / Tabella

H = Spring deflection
Deflessione della molla

F = Spring force
Forza della molla

Article no.	A	B	C	D	E	G1	G2	H	F(N)	Weight
CA.SAR.2025	20	100	48	M17x1	G 1/8	G 1/8	M5	25	3.6	42 g
CA.SAR.2050		150	73					50	4.2	68 g

Remarks / Osservazioni:

Extremely light weight (Material Aluminium)
Peso estremamente leggero (Materiale Alluminio)

Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

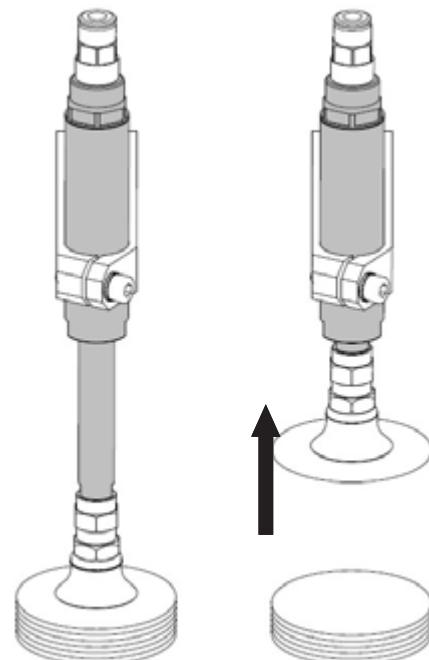
Sealing with no seals
Guarnizione senza sigillo

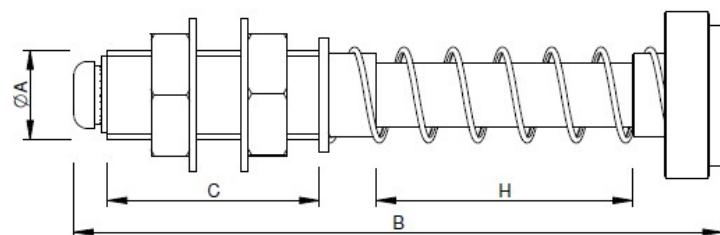
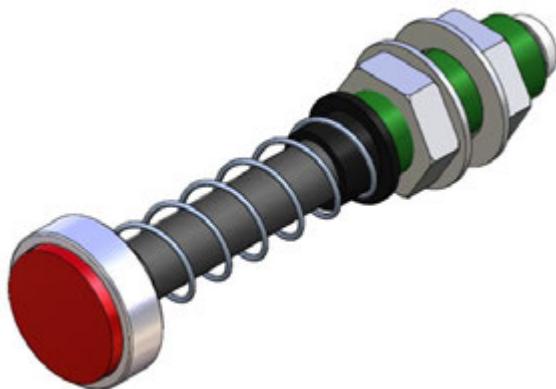
Only for vacuum applications
Solo per applicazioni su ventose

The speed of the retraction movement can be adjusted by a standard throttle valve
La velocità del movimento retrattile può essere regolata da una valvola acceleratrice standard

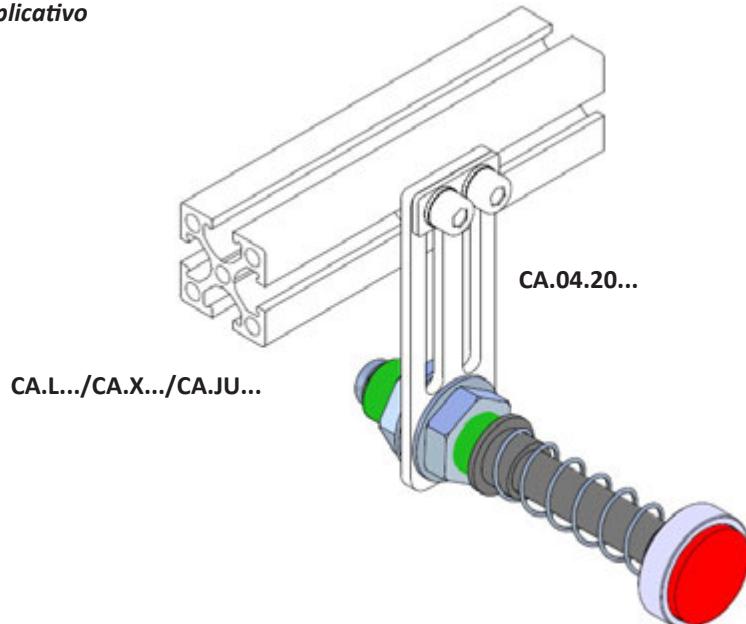
When the vacuum is removed the part is released and the internal spring resets the rod
Quando la ventosa viene rimossa, il pezzo viene lasciato e la molla interna resetta l'asta

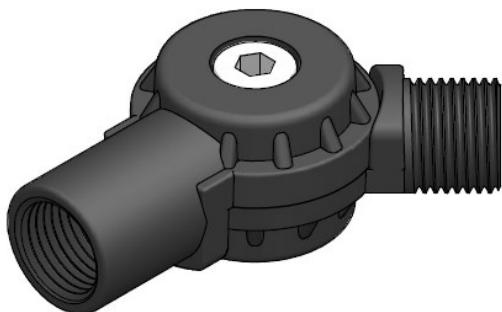
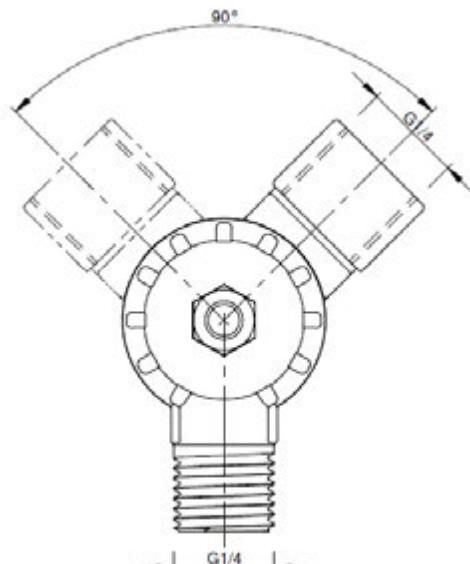
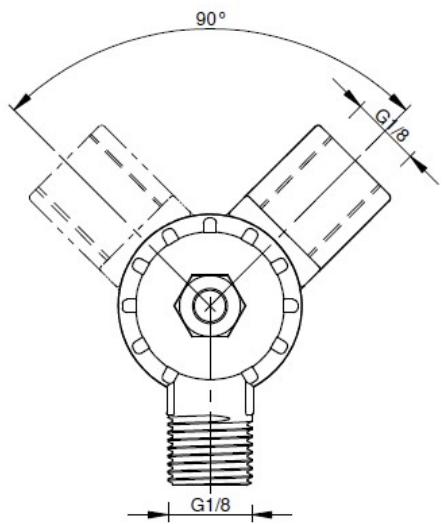
Pressure range: -1 ÷ 0 bar
Rango di Pressione: -1 ÷ 0 bar



CA.05 VSX
Ø 14
. Spring rod
. Pressore a Molla

Remarks / Osservazioni:
Table / Tabella
H = Spring deflection
Deflessione della molla
Extremely light weight (Material Aluminium)
Peso estremamente leggero (Materiale Alluminio)
Guide (Tube and shaft) hard coated
Guida (Tubo e Asta) fortemente protetta

Article no.	A	B	C	H	Weight
CA.VSX.1440	M14X1.5	101	33	40	47 g

Application example / Esempio applicativo


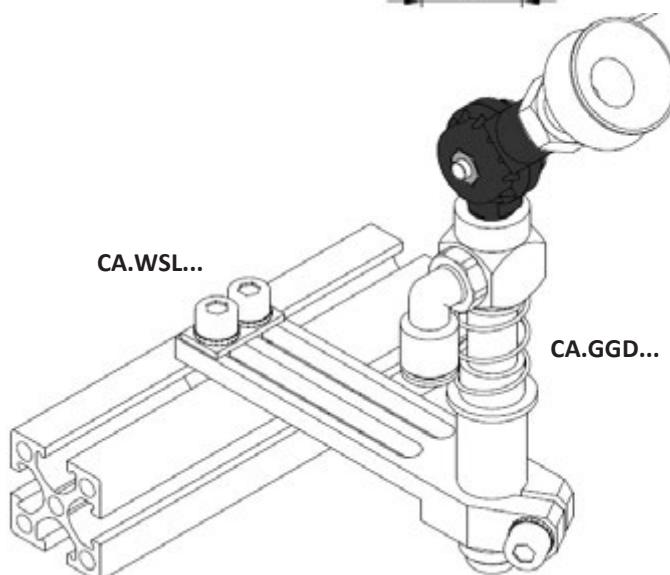
CA.07.01**. Elbow arm****. Snodo direzionale****Remarks / Osservazioni :****Materiale / Material:** POM

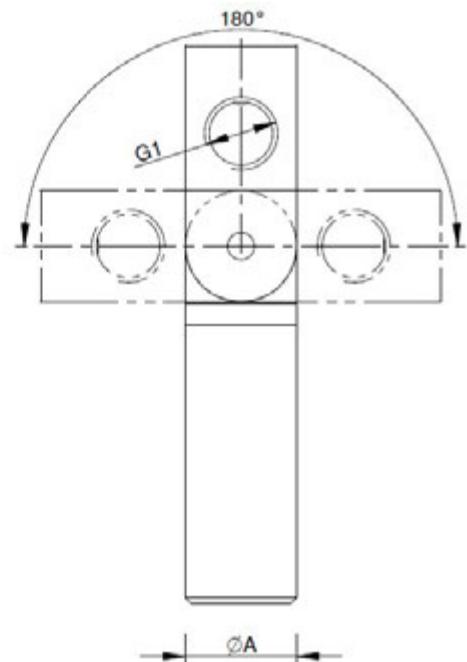
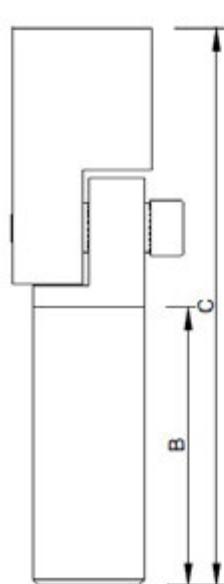
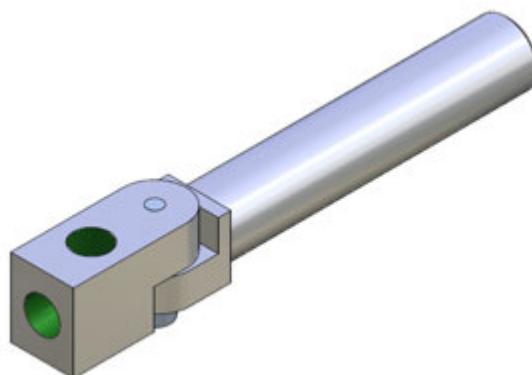
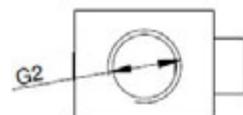
Not for compressed air (only vacuum).

Non è adatto per aria compressa (solo ventose).

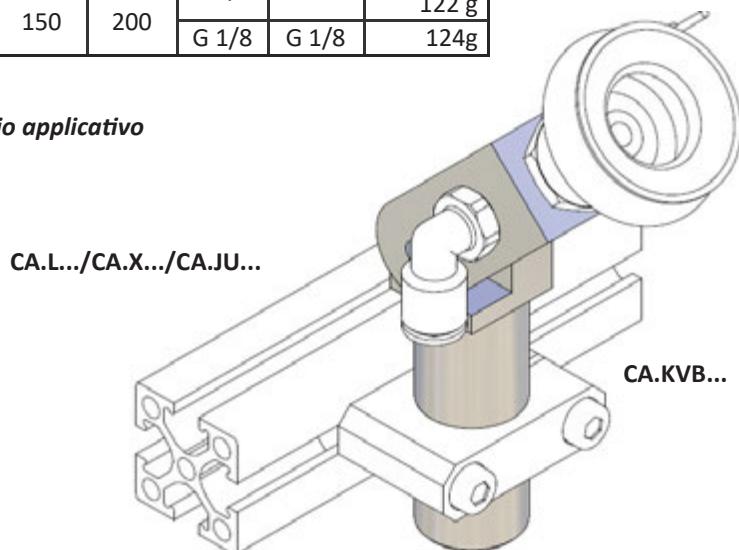
It is possible to set continuously the angle from 0° to +/- 90°
È possibile impostare continuamente l'angolo da 0° a +/- 90°

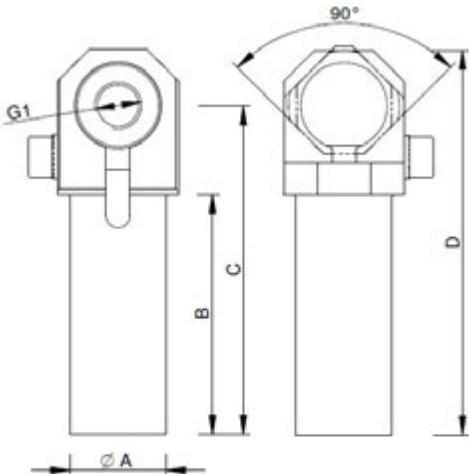
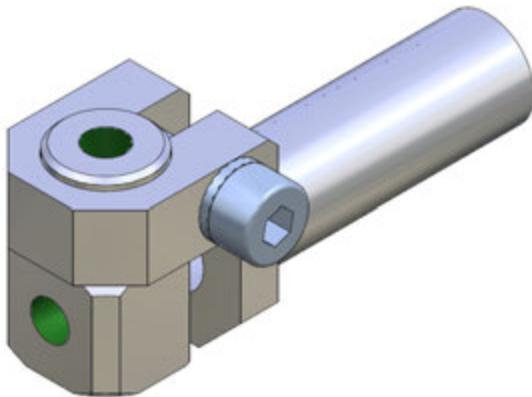
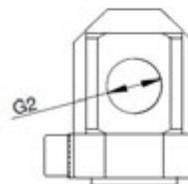
Article no.	G1	G2	Weight
CA.07.01.001	G 1/8	G 1/8	7 g
CA.07.01.002	G 1/4	G 1/4	15 g

Application example / Esempio applicativo

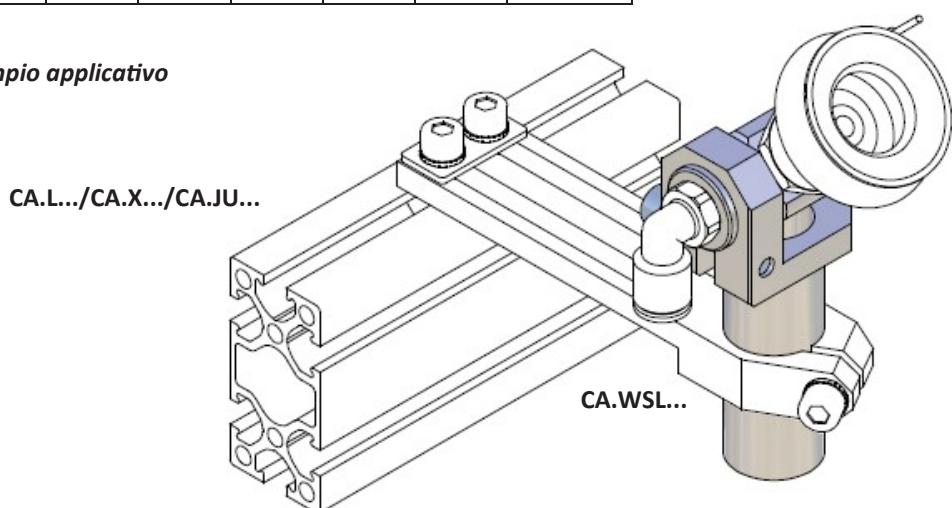
CA.05 GGE
Ø 10-14-20
. Swivel Gripper Arm for Vacuum Cups
. Giunto Supporto Ventosa

 $\varnothing A$
Remarks / Osservazioni:
Material / Materiale:
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato

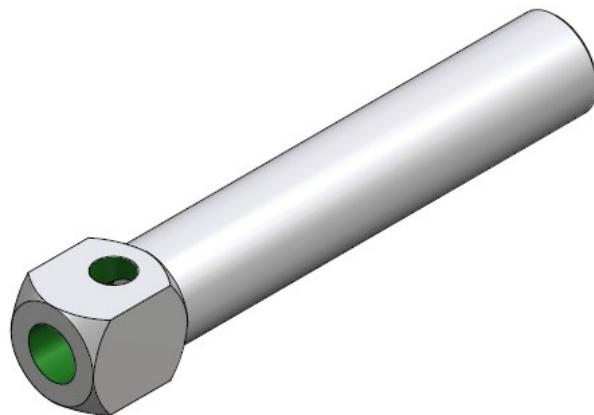
Article no.	A	B	C	G1	G2	Weight
CA.GGE.10.M5.M5	10	60	90	M5	M5	22 g
CA.GGE.14.18.18	14	80	120	G 1/8	G 1/8	42 g
CA.GGE.20.14.18	20	100	150	G 1/4	G 1/4	85 g
CA.GGE.20.14.14						84 g
CA.GGE.201414150	150	200		G 1/8	G 1/8	122 g
CA.GGE.201818150						124g

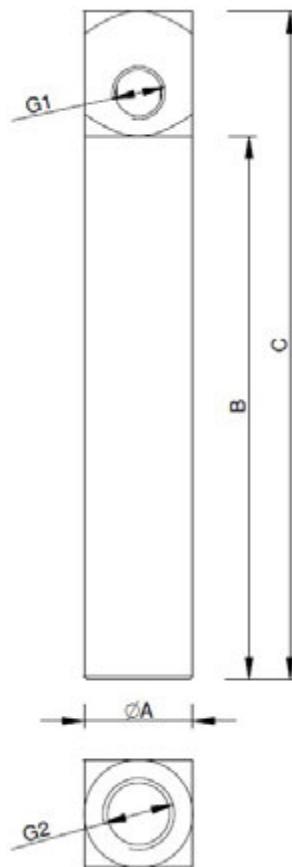
Application example / Esempio applicativo


CA.05 GGB**Ø 10-14-20****. Swivel Gripper Arm for Vacuum Cups****. Giunto Supporto Ventosa***Remarks / Osservazioni:***Material / Materiale:**
Aluminium / AlluminioSurface: Silver anodized
Superficie: Argento anodizzato

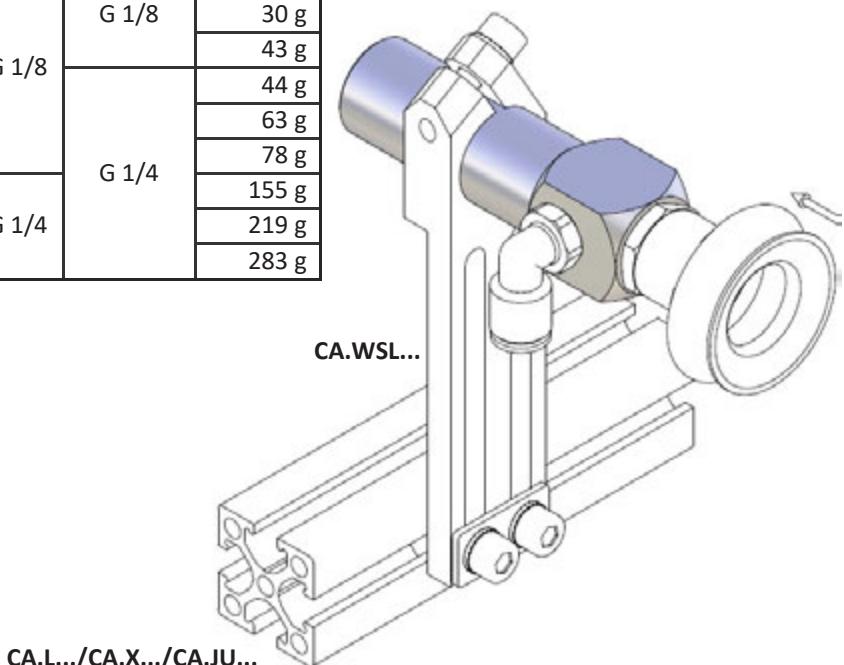
Article no.	A	B	C	D	G1	G2	Weight
CA.GGB.10050530	10	30	41	48	M5	M5	14 g
CA.GGB.10050560		60	71	78			17 g
CA.GGB.10050590		90	101	108			20 g
CA.GGB.14181840	14	40	56	65	G 1/8	G 1/8	29 g
CA.GGB.14181880		80	96	105			38 g
CA.GGB.14181820		120	136	145			45 g
CA.GGB.20141850	20	50	68	80	G 1/4	G 1/4	56 g
CA.GGB.201418100		100	118	130			70 g
CA.GGB.201418150		150	168	180			87 g
CA.GGB.20141450	20	50	68	80	G 1/4	G 1/4	55 g
CA.GGB.201414100		100	118	130			69 g
CA.GGB.201414150		150	168	180			86 g

Application example / Esempio applicativo

CA.05 GSE
Ø 10-14-20-30
. Gripper Arm for Vacuum Cups
. Gambo per Ventosa

Remarks / Osservazioni:
Material / Materiale:
 Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato


Article no.	A	B	C	G1	G2	Weight
CA.GSE.1018M530	10	30	52	M5	G 1/8	15 g
CA.GSE.1018M560		60	82			18 g
CA.GSE.1018M590		90	112			25 g
CA.GSE.10M5M530		30	46		M5	9 g
CA.GSE.10M5M560		60	76			15 g
CA.GSE.10M5M590		90	106			24 g
CA.GSE.14181840	14	40	62	G 1/8	G 1/8	18 g
CA.GSE.14181880		80	102			30 g
CA.GSE.141818120		120	142			43 g
CA.GSE.20141850	20	50	73		G 1/4	44 g
CA.GSE.201418100		100	123			63 g
CA.GSE.201418150		150	173			78 g
CA.GSE.30141480	30	80	108			155 g
CA.GSE.301414140		140	168			219 g
CA.GSE.301414200		200	228			283 g

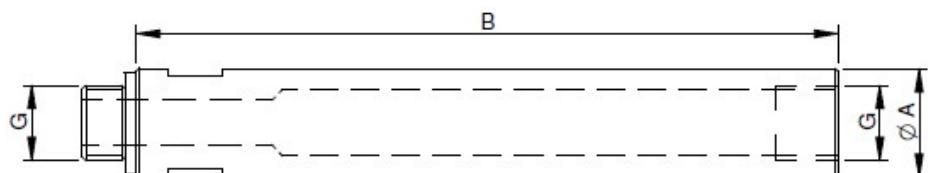
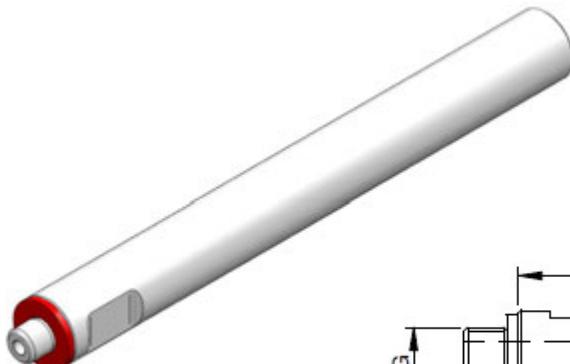
Application example / Esempio applicativo


CA.05 GSEG

Ø 10-12-14-20

. Extension tube with air lead

. Prolunga per Ventosa

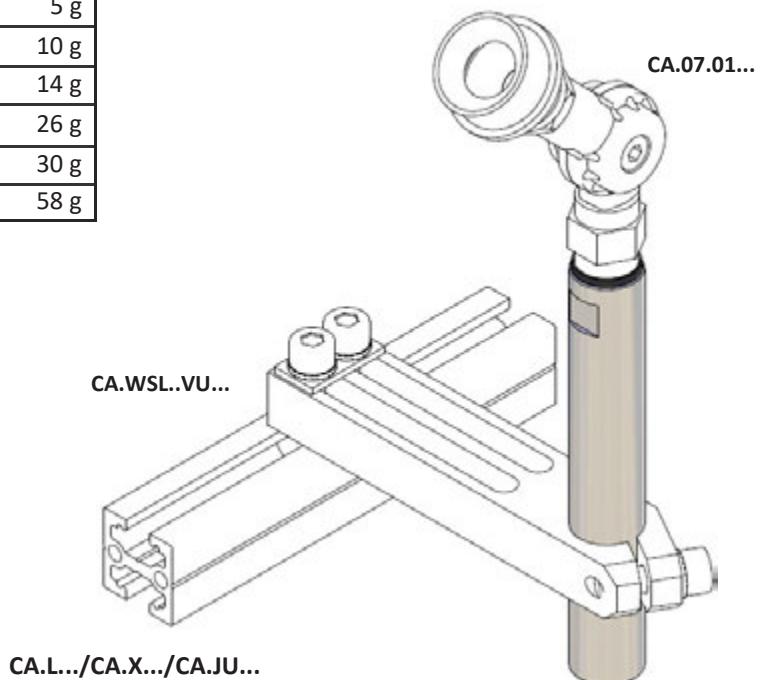


Remarks / Osservazioni:

Material / Materiali:
Aluminium / Alluminio

Article no.	A	B	G	Weight
CA.GSEG.100515	10	15	M5	3 g
CA.GSEG.100530		30		6 g
CA.GSEG.100545		45		9 g
CA.GSEG.100590		90		16 g
CA.GSEG.120545	12	45		12 g
CA.GSEG.120590		90		24 g
CA.GSEG.141815	14	15	G 1/8	5 g
CA.GSEG.141830		30		10 g
CA.GSEG.141845		45		14 g
CA.GSEG.141890		90		26 g
CA.GSEG.201445	20	45	G 1/4	30 g
CA.GSEG.201490		90		58 g

Application example / Esempio applicativo



CA.05 WSS
L/X/JU

. Threadclamp fixed

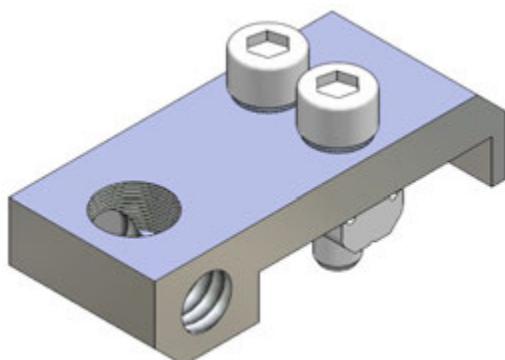
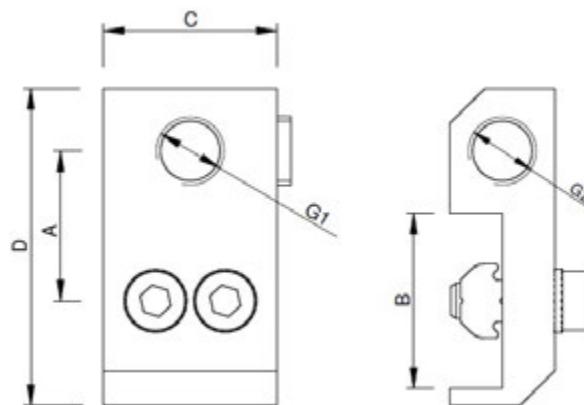
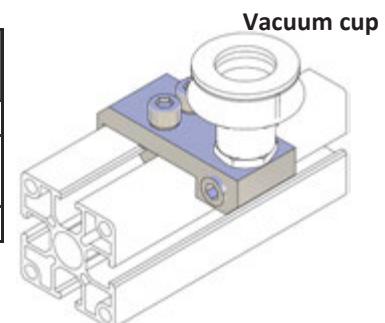


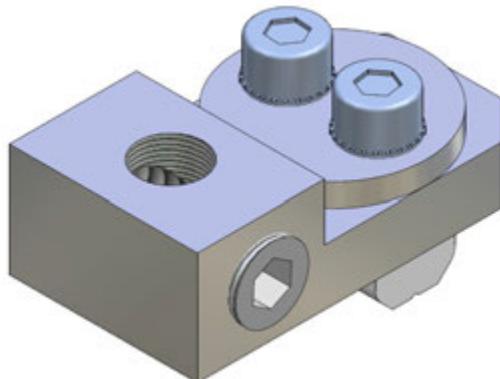
Table / Tabella

M = Suitable for Profiles
Applicabile ai Profili


Application example / Esempio applicativo

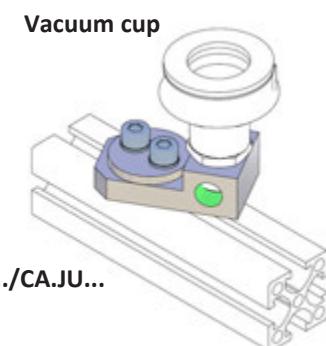
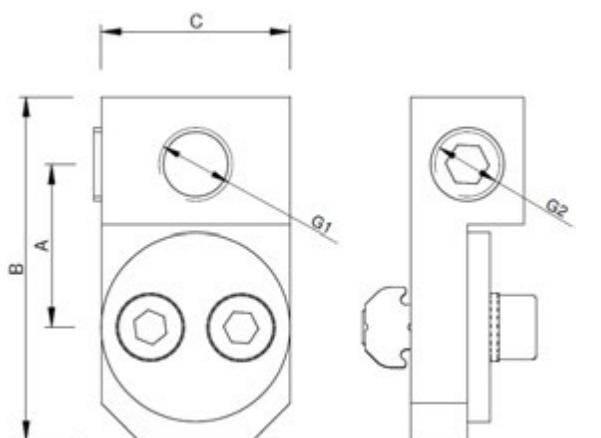

CA.05 WSD

. Adjustable connector for vacuum cups



Remarks / Osservazioni:

 Material / Materiale:
 Aluminium / Alluminio

 Surface: Silver anodized
 Superficie: Argento anodizzato


Article no.	A	B	C	G1	G2	M	Weight
CA.WSD.L.M5.M5	14	28	16	M5	M5	L	19 g
CA.WSD.X.18.18	21	46	25	G 1/8	G 1/8	X	44 g
CA.WSD.X.14.18				G 1/4		JU	

CA.L.../CA.X.../CA.JU...

CA.05 SGB**L/X/JU**

. Clamp for Vacuum Cups

. Staffa attacco diretto Ventosa

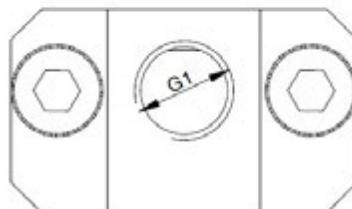
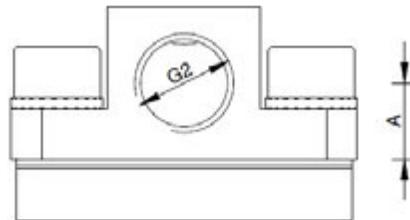
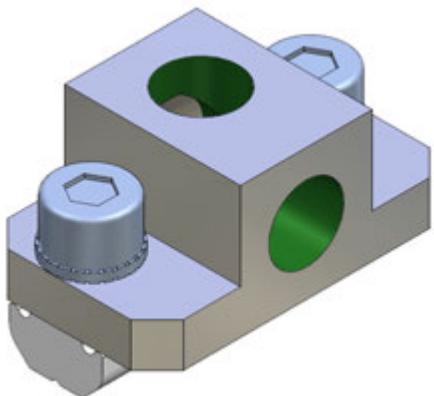


Table / Tabella

M = Suitable for Profiles
Applicabile ai Profili

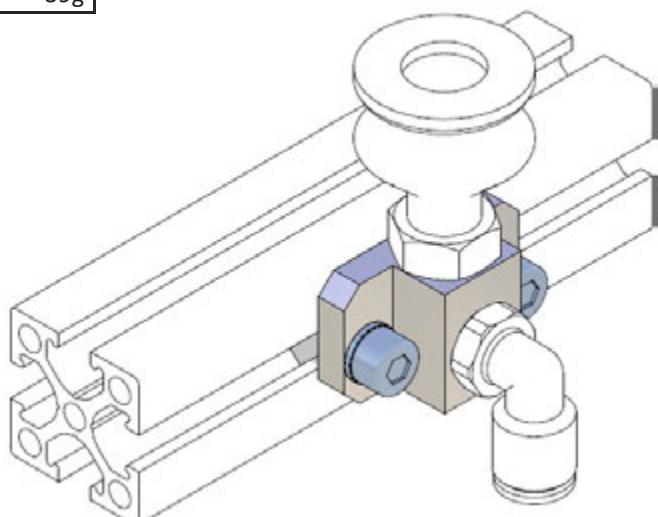
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Material / Materiale:
Aluminium / Alluminio

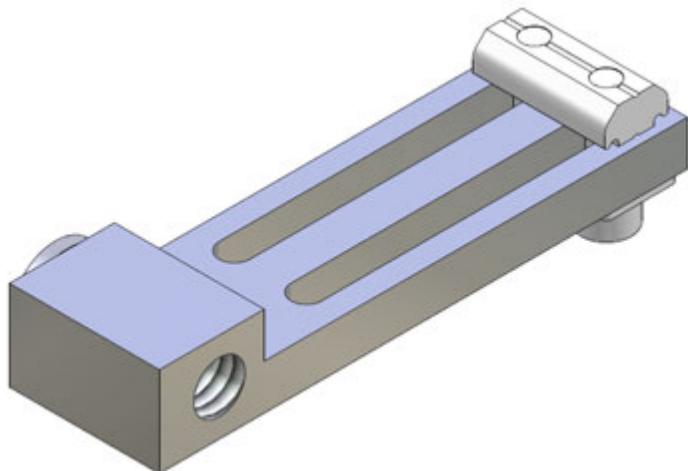
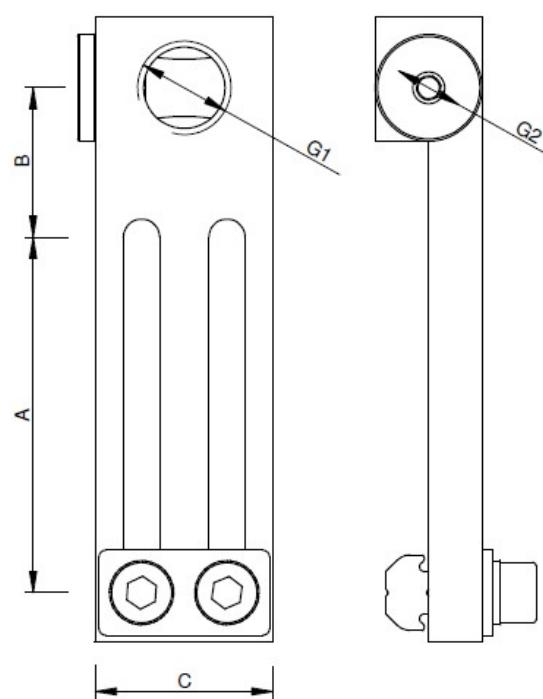
Surface: Silver anodized
Superficie: Argento anodizzato

Article no.	A	G1	G2	M	Weight
CA.SGB.5.5.X	4	M5	M5	L	27g
CA.SGB.18.18.X	7.5	G 1/8	G 1/8	X/JU	35g
CA.SGB.14.14.X	10	G 1/4	G 1/4		39g

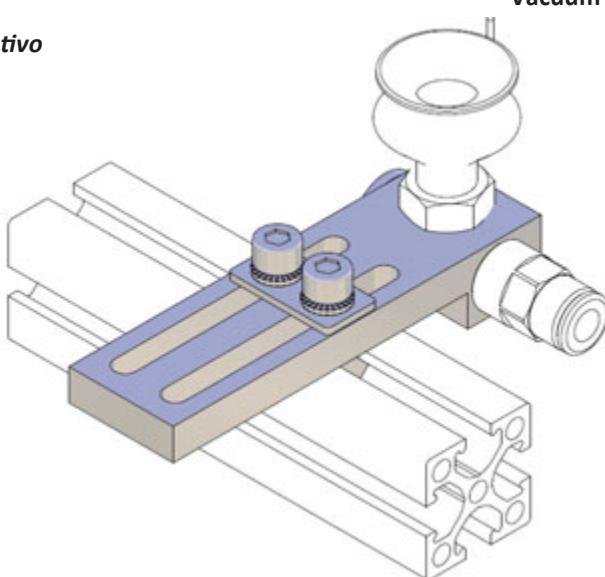
Vacuum cup



CA.L.../CA.X.../CA.JU...

CA.05 WLS
L/X/JU
. Thread Clamp Adjustable

Table / Tabella
**M = Suitable for Profiles
Applicabile ai Profili**
Remarks / Osservazioni:
**Material / Materiale:
Aluminium / Alluminio**
**Surface: Silver anodized
Superficie: Argento anodizzato**


Article no.	G1	G2	A	B	C	M	Weight
CA.WLS.M5.M5.X	M5	M5	40	14	16	L/X	24 g
CA.WLS.18.18.X	G 1/8					X/JU	
CA.WLS.14.18.X		G 1/8	50	21			
CA-WLS.14.14.JU	G 1/4	G 1/4		23	25	JU	65 g
							73 g

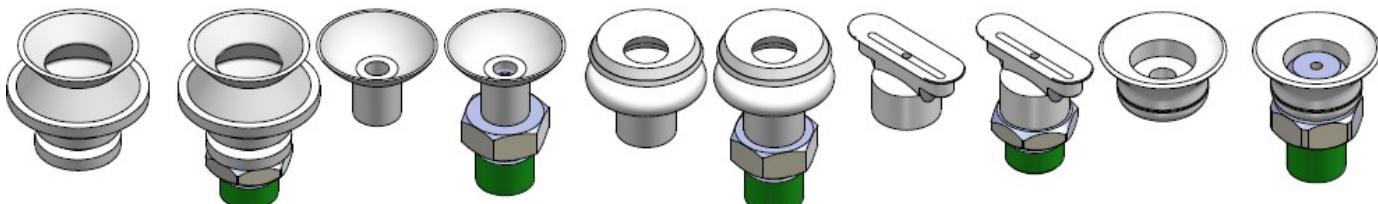
Vacuum cup
Application example / Esempio applicativo
CA.L.../CA.X.../CA.JU...


Notes/*Note*

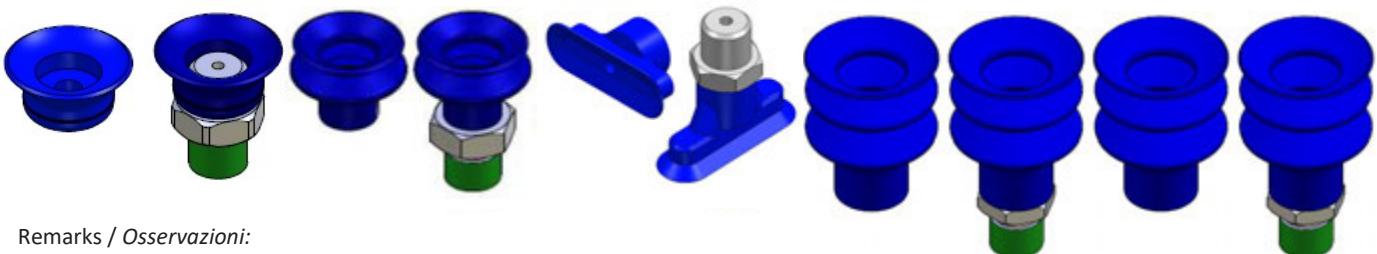
CA.08

. Vacuum Cup properties

. Proprietà Ventose



Styles	Series	Applications
Oval vacuum cup <i>Ventosa ovale in silicone</i>	CA.08.27..	The oval series of suction cups is used for handling oblong products, such as pens, tubes and bottles, and flat or cylindrical objects. <i>La serie ovale di ventose è usata per la presa di prodotti oblunghi, tipo penne, tubi e bottiglie, e oggetti cilindrici o piatti.</i>
With 1 bellow <i>Con 1 soffietto</i>	CA.08.03.. CA.08.28.. CA.08.29..	The suction cups with 1 bellow provide accuracy in load gripping and speeds up throughput rates. These suction cups are used for flat surfaces only. <i>Le serie di ventose con un soffietto, grazie al loro profilo, garantiscono un'elevata precisione di presa e permettono di aumentare la cadenza operativa. Queste ventose sono indicate per oggetti con superfici piane.</i>
With 2 bellows <i>Con 2 soffietti</i>	CA.08.01.. CA.08.30.. CA.08.31..	The suction cups with 2 bellows combine the advantages of flat suction cups (precision and positioning) with the freedom of bellows (angle and flexibility). They provide flexibility, precision and low internal volume suitable for high-speed applications. <i>Le ventose con 2 soffietti combinano i vantaggi delle ventose piane con un movimento verticale più elevato, una maggiore elasticità e precisione. Permettono la presa di oggetti leggermente concavi e convessi.</i>
With 3 bellows <i>Con 3 soffietti</i>	CA.08.32.. CA.08.33.. CA.08.36..	The suction cups with 3 bellows are recommended for gripping products on different planes (large deflection) - thus replacing spring systems - and for gripping spherical or cylindrical objects at an angle (ball-joint effect). <i>Le ventose con 3 soffietti sono indicate per la presa di prodotti con differenze di altezza (grazie al grande movimento verticale), evitando l'utilizzo di compensatori di livello, nonché per la presa di oggetti sferici o con superfici a forte curvatura.</i>
With 2 bellows and foam strip <i>Con 2 soffietti con anella</i>	CA.08.26..	The suction cups with foam ring is designed for gripping products with an uneven or ridged surface, Ex. Sawn wood, sheet metal, flat surfaces with bumps or hollows. All granular surfaces to which suction cups cannot adhere correctly and therefore cannot be airtight. <i>Le ventose con anella sono ideate per prodotti di presa per superfici irregolari. Es. legno segato, foglio di metallo, superfici piatte con protuberanze o vuoti. Tutte le superfici granulari alle quali le ventose non possono aderire correttamente, non possono quindi essere a tenuta d'aria.</i>

CA.08**. Vacuum Cup properties****. Proprietà Ventose**

Remarks / Osservazioni:

The holding force of the suction pads increases proportionally with the difference between the ambient pressure and the pressure inside the pad.

The holding force of a suction pad is calculated with the formula:

$$F = \Delta p \times A$$

F = Holding force

Δp = Difference between ambient pressure and pressure of the system

A = Effective suction area (the effective area of a suction pad under vacuum)

This means the holding force is proportional to the pressure difference and the suction area. The greater the difference between ambient pressure and pressure in the suction pad or the larger the effective suction area, the greater the holding force. The force can vary depending on a change of the pressure difference and area parameters.

La forza di resistenza delle ventose aumenta proporzionalmente con la differenza tra la pressione ambiente e la pressione all'interno del cuscinetto.

La forza di resistenza delle ventose è calcolata con la formula:

$$F = \Delta p \times A$$

F = Forza di resistenza

Δp = Differenza tra la pressione ambiente e la pressione del sistema

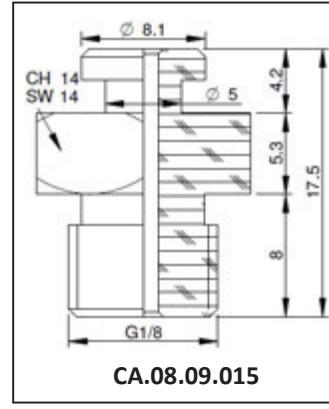
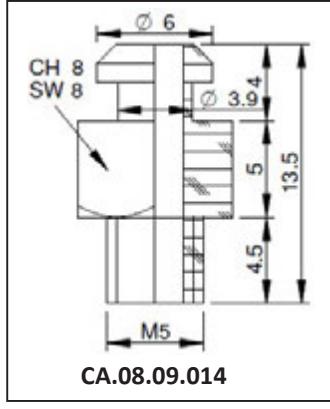
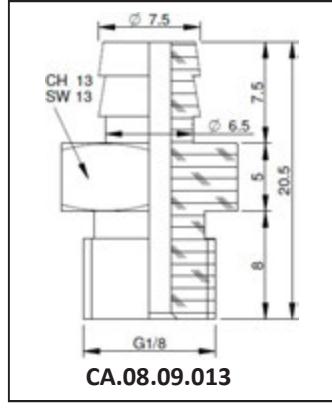
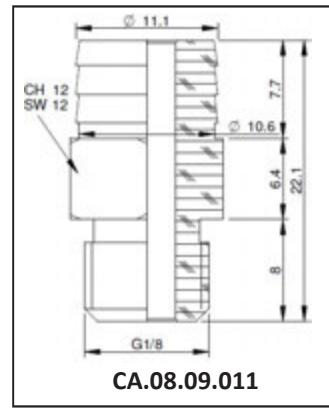
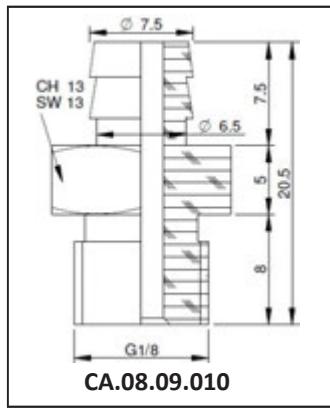
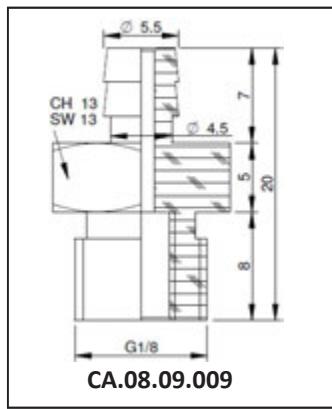
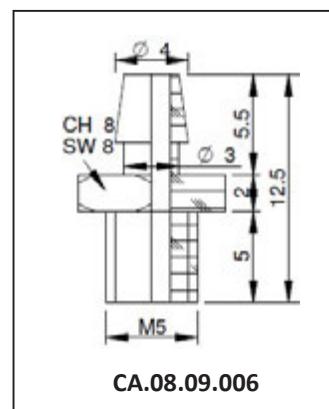
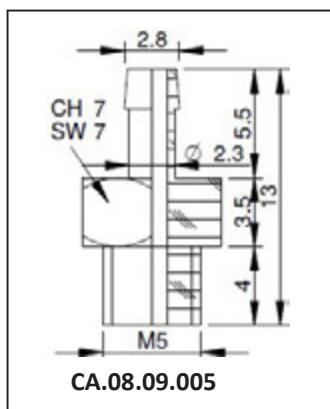
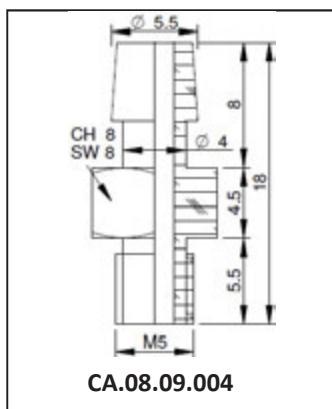
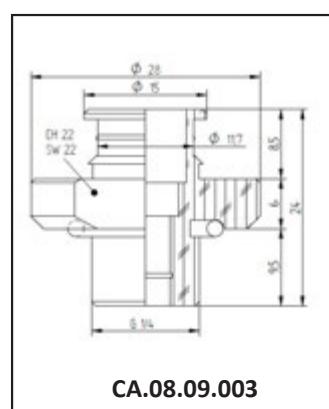
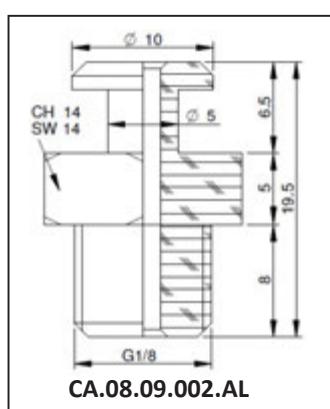
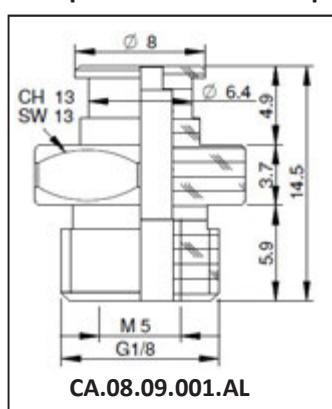
A = Area effettiva della ventosa (l'area effettiva del cuscinetto della ventosa sotto la ventosa)

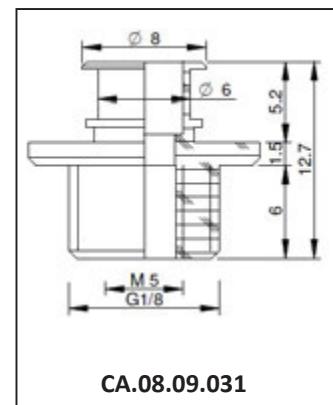
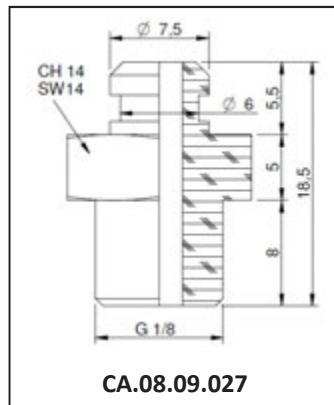
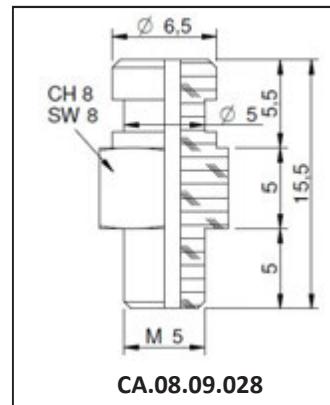
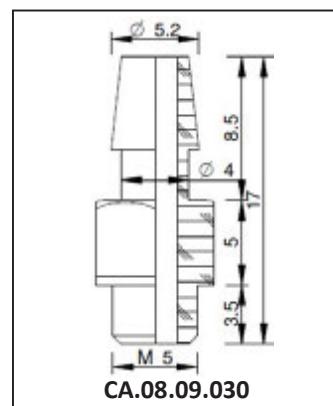
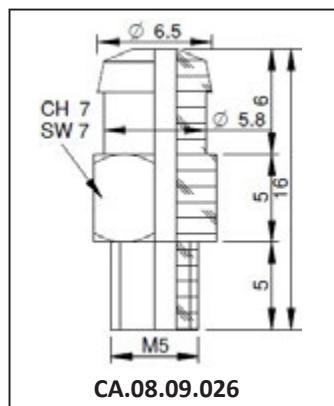
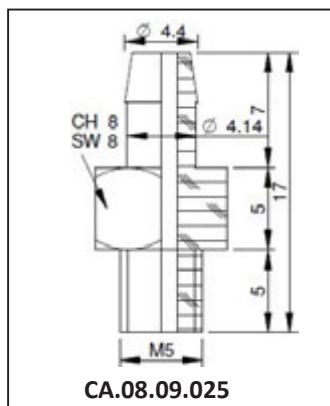
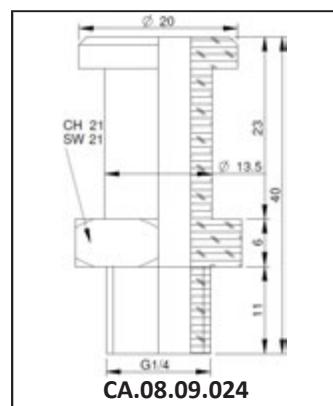
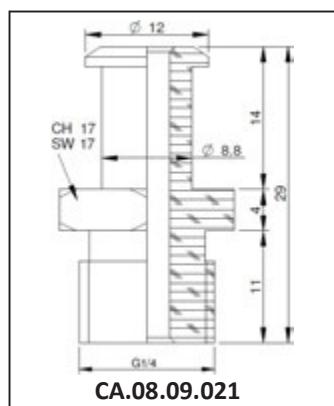
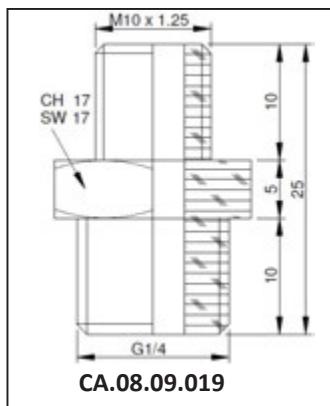
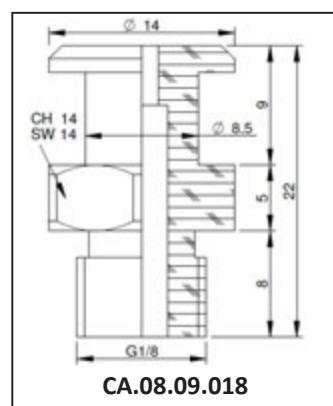
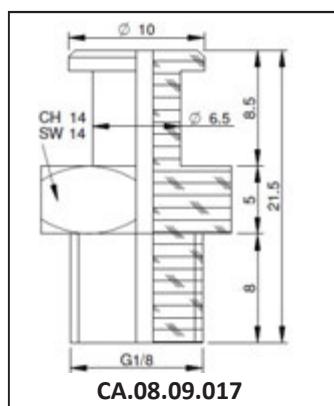
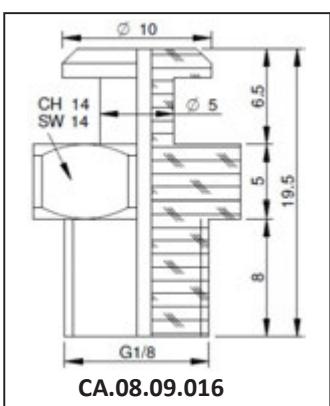
Ciò significa che la forza di resistenza è proporzionale alla differenza di pressione e l'area della ventosa. Maggiore la differenza tra la pressione ambiente e la pressione nella ventosa o maggiore l'area effettiva della ventosa, maggiore sarà la forza di resistenza. La forza può variare a causa di un cambio della differenza di pressione e parametri dell'area.

	HT1	SILICONE (translucid)	POLYURETHANE
Ozone resistance <i>Resistenza all'ozono</i>	😊😊😊	😊	😢
Oil resistance <i>Resistenza all'olio</i>	😊😊😊	😢	😊
Wear resistance <i>Resistenza all'usura</i>	😊😊	😢	😊😊😊
Tensile strength <i>Forza di tensione</i>	😊	😢	😢
Temperature resistance / Resistenza alla temperatura Short-term in °C (< 30 sec.) <i>Nel breve intervallo in °C (< 30 sec.)</i>	-25° to +170°	-50° to +220°	+10° to +50°
Longer-term in °C <i>Nel lungo intervallo in °C</i>	-10° to +140°	-30° to +180°	
Leaving few marks <i>Rimanenza di segno</i>	😊	😢	😊
Absence of PWIS (paint-wetting impairment substances) <i>Assenza di sostanze che danneggiano la vernice</i>	😊	😢	😊

CA.08.09

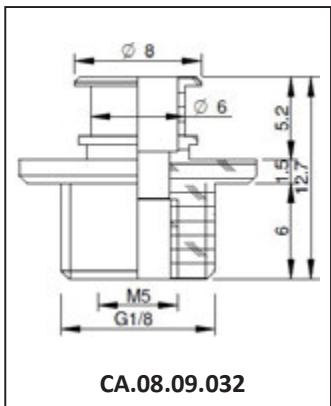
. Adapters for vacuum cups



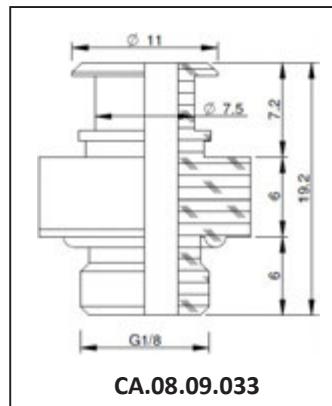
CA.08.09**. Adapters for vacuum cups**

CA.08.09

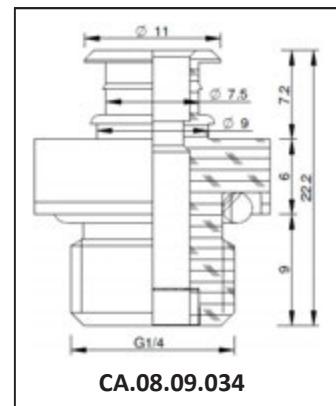
. Adapters for vacuum cups



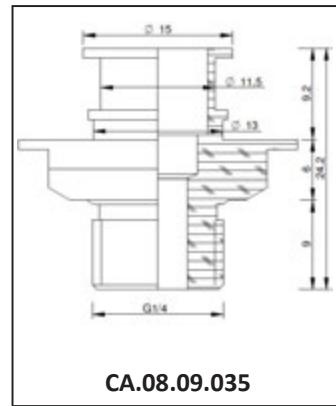
CA.08.09.032



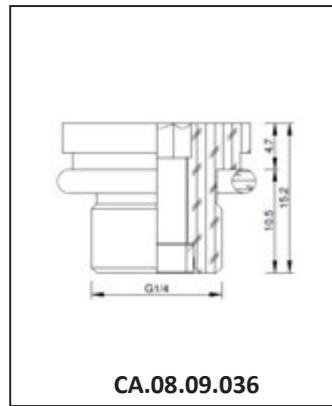
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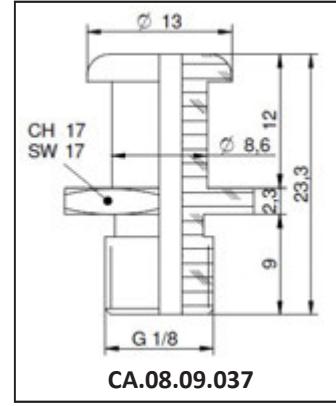
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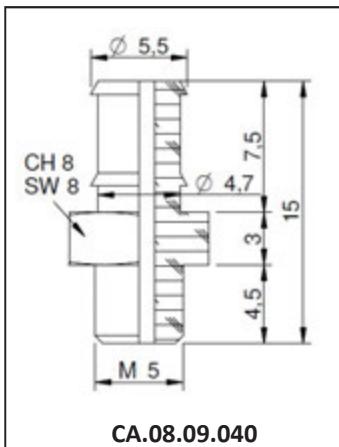
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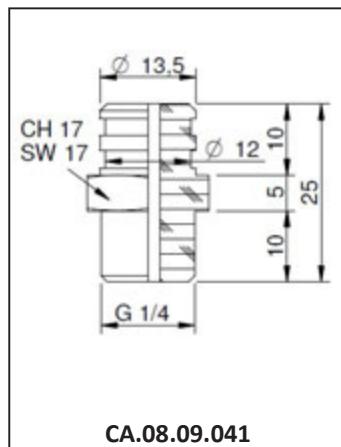
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CA.08.09.037



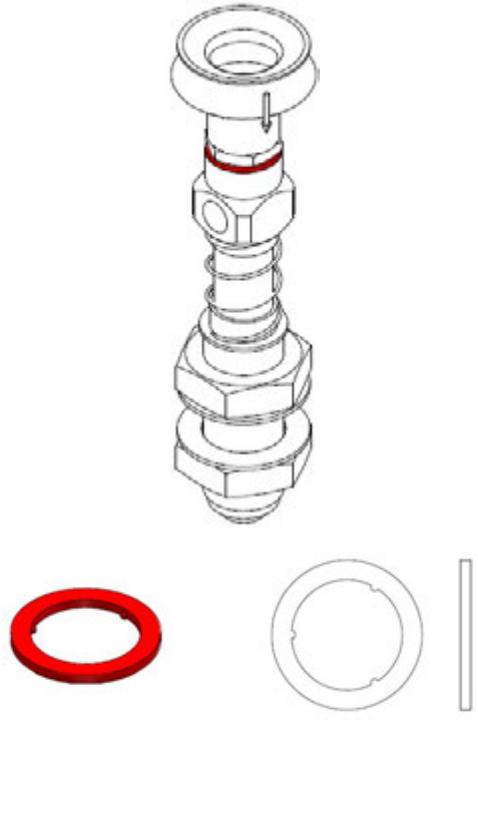
CA.08.09.040



CA.08.09.041

CA.08.09**. Adapters for vacuum cups****. Adattatori per Ventose**

Article no.	Vacuum cups	Weight
CA.08.09.001.AL	CA.08.01.003 CA.08.27.001 CA.08.27.002 CA.08.27.003	3 g
CA.08.09.002.AL	CA.08.01.004 CA.08.01.005	12 g
CA.08.09.003	CA.08.01.006	3 g
CA.08.09.004	CA.08.01.001 CA.08.01.002 CA.08.03.003 CA.08.03.004 CA.08.03.005 CA.08.03.006 CA.08.26.D20.AS CA.08.26.D25.AS CA.08.30.001 CA.08.30.002 CA.08.30.003 CA.08.30.004 CA.08.30.005 CA.08.31.001 CA.08.31.002 CA.08.31.003 CA.08.31.004 CA.08.31.005 CA.08.32.D12 CA.08.32.D14 CA.08.32.D20 CA.08.32.D25 CA.08.33.D12 CA.08.33.D14 CA.08.33.D20 CA.08.33.D25	1 g
CA.08.09.005	CA.08.03.001	2 g
CA.08.09.006	CA.08.03.002	1 g



Article no.	Vacuum cups	Weight
CA.08.09.009	CA.08.01.001 CA.08.01.002 CA.08.03.003 CA.08.03.004 CA.08.03.005 CA.08.03.006 CA.08.26.D20.AS CA.08.26.D25.AS CA.08.30.001 CA.08.30.002 CA.08.30.003 CA.08.30.004 CA.08.30.005 CA.08.31.001 CA.08.31.002 CA.08.31.003 CA.08.31.004 CA.08.31.005 CA.08.32.D12 CA.08.32.D14 CA.08.32.D20 CA.08.32.D25 CA.08.33.D12 CA.08.33.D14 CA.08.33.D20 CA.08.33.D25	3 g
CA.08.09.010	CA.08.03.007 CA.08.03.008	4 g
CA.08.09.016	CA.08.28.006 CA.08.29.006	4 g
CA.08.09.017	CA.08.28.007 CA.08.28.008 CA.08.28.009 CA.08.28.010 CA.08.29.007 CA.08.29.008 CA.08.29.009 CA.08.29.010	5 g
CA.08.09.018	CA.08.29.011 CA.08.28.011	5 g
CA.08.09.019	CA.08.28.012 CA.08.28.013 CA.08.29.012 CA.08.29.013	8 g
CA.08.09.021	CA.08.26.D33.AS CA.08.26.D43.AS CA.08.26.D53.AS CA.08.26.D63.AS CA.08.30.006 CA.08.30.007 CA.08.30.008 CA.08.30.009 CA.08.31.006 CA.08.31.007 CA.08.31.008 CA.08.31.009 CA.08.32.D32 CA.08.32.D42 CA.08.33.D32 CA.08.33.D42 CA.08.33.D52	8 g
CA.08.09.024	CA.08.26.D78.AS CA.08.30.010 CA.08.31.011	15 g
CA.08.09.025	CA.08.33.D5 CA.08.33.D9	1 g
CA.08.09.026	CA.08.32.D09 CA.08.33.D07	

Article no.	Vacuum cups	Weight
CA.08.09.011	CA.08.03.009 CA.08.03.010 CA.08.03.011 CA.08.26.D33.AS CA.08.26.D43.AS CA.08.26.D53.AS CA.08.26.D63.AS CA.08.30.006 CA.08.30.007 CA.08.30.008 CA.08.30.009 CA.08.31.006 CA.08.31.007 CA.08.31.008 CA.08.32.D32 CA.08.32.D42 CA.08.33.D32 CA.08.33.D42 CA.08.33.D52	4 g
CA.08.09.013	CA.08.27.004 CA.08.27.005 CA.08.27.006	19 g
CA.08.09.014	CA.08.28.001 CA.08.28.002 CA.08.28.003 CA.08.28.004 CA.08.29.001 CA.08.29.002 CA.08.29.003 CA.08.29.004	1 g
CA.08.09.015	CA.08.28.005 CA.08.29.005	4 g
CA.08.09.030	CA.08.36.D10 CA.08.36.D10.60	1 g
CA.08.09.031	CA.08.36.D20 CA.08.36.D20.60	
CA.08.09.032	CA.08.36.D25 CA.08.36.D25.60	2 g
CA.08.09.033	CA.08.36.D35	5 g
CA.08.09.034	CA.08.36.D35 CA.08.36.D35.60	8 g
CA.08.09.035	CA.08.36.D52 CA.08.36.D52.60	11 g
CA.08.09.036	CA.08.36.D75 CA.08.36.D75.60	18 g
CA.08.09.037	CA.08.01.005	19 g

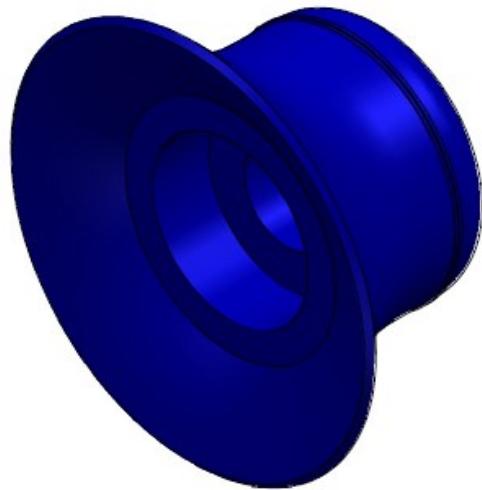
Table / Tabella

M = Suitable for...
Applicable a...

Article no.	M
CA.08.09.05	M5
CA.08.09.18	G 1/8
CA.08.09.14	G 1/4

CA.08.29
HT1

. Vacuum Cup with 1 Bellows only



. Ventosa con 1 soffietto

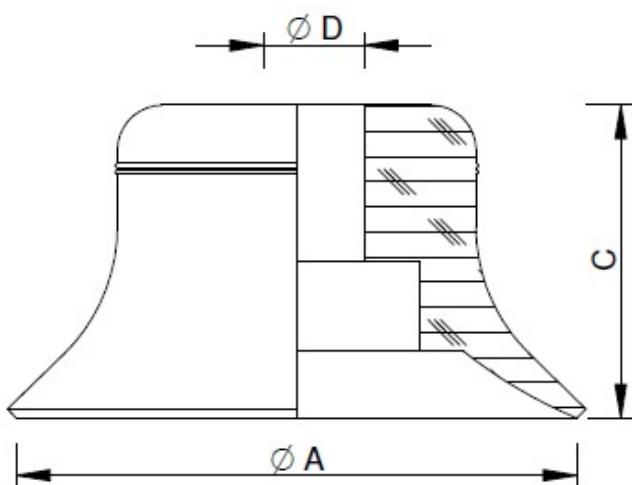


Table / Tabella

F = Holding force
 Forza di tenuta

Article no.	A	C	D	F(N)	Weight	
CA.08.29.001	Ø5	6.5	Ø4	0.75	0.2 g	
CA.08.29.002	Ø6			1.2		
CA.08.29.003	Ø8			2.3		
CA.08.29.004	Ø10			4		
CA.08.29.005	Ø15	8	Ø4.5	9	0.7 g	
CA.08.29.006	Ø20	10		15.5	1.4 g	
CA.08.29.007	Ø25	14	Ø6	26.5	2.4 g	
CA.08.29.008	Ø30	12		34	3.5 g	
CA.08.29.009	Ø35	14		44	5.9 g	
CA.08.29.010	Ø40			57.7	7.6 g	
CA.08.29.011	Ø50	15	Ø8	91	10.6 g	
CA.08.29.012	Ø60	18	M10x1.25	125	24.2 g	
CA.08.29.013	Ø80	20.5		260	51.2 g	

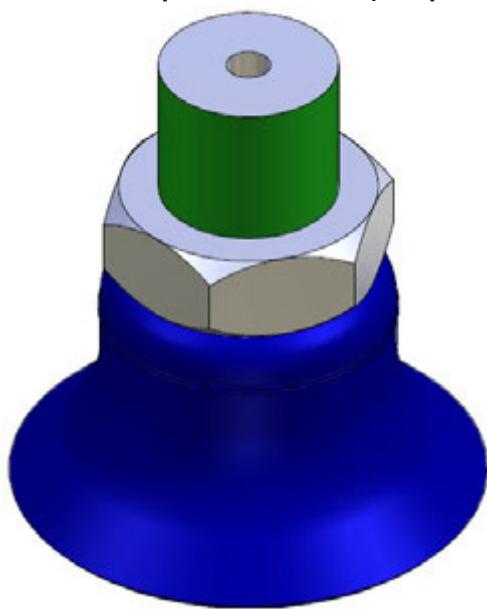
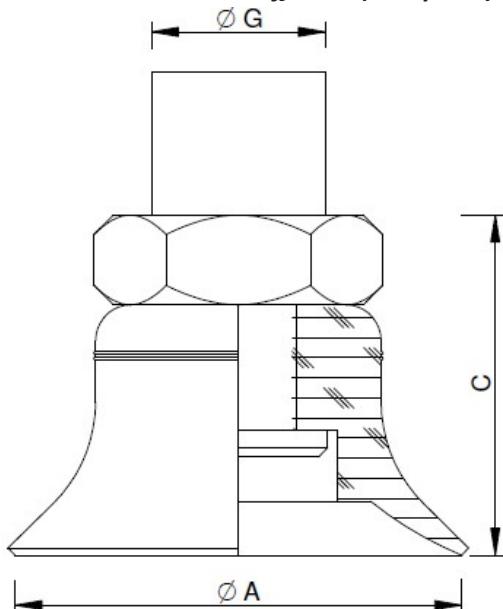
Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza
 Short-term in °C (< 30 sec.)
Nel breve periodo in °C (< 30 sec.)
-25° to +170°
 Longer-term in °C
Nel lungo periodo in °C
-10° to +140°

Leaving few marks ☺
Rimanenza di segno
 Absence of PWIS (paint-wetting impairment substances) ☺
Assenza di sostanze che danneggiano la vernice

The suction cups with 1 bellow provide accuracy in load gripping and speeds up throughput rates. These suction cups are used for flat surfaces only.

La serie di ventose con un soffietto, grazie al loro profilo, garantiscono un'elevata precisione di presa e permettono di aumentare la cadenza operativa. Queste ventose sono indicate per oggetti con superfici piane.

CA.08.29**HT1****. Vacuum Cup with 1 bellows (complete)****. Ventosa con 1 soffietto (Completa)**

Article no.	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.29.D05	CA.08.29.001	CA.08.09.014	Ø5	9.5	M5	5 g
KIT.08.29.D06	CA.08.29.002		Ø6			
KIT.08.29.D08	CA.08.29.003		Ø8	12		6 g
KIT.08.29.D10	CA.08.29.004		Ø10	12.5		
KIT.08.29.D15	CA.08.29.005	CA.08.09.015	Ø15	13.3	G 1/8	7 g
KIT.08.29.D20	CA.08.29.006	CA.08.09.016	Ø20	15		
KIT.08.29.D25	CA.08.29.007	CA.08.09.017	Ø25	19		
KIT.08.29.D30	CA.08.29.008		Ø30	17		
KIT.08.29.D35	CA.08.29.009		Ø35	19	G 1/4	10 g
KIT.08.29.D40	CA.08.29.010		Ø40			12 g
KIT.08.29.D50	CA.08.29.011	CA.08.09.018	Ø50	20		20 g
KIT.08.29.D60	CA.08.29.012	CA.08.09.019	Ø60	23		24 g
KIT.08.29.D80	CA.08.29.013		Ø80	25		43 g

CA.08.31
HT1

. Vacuum Cup with 2 bellows only

. Ventosa con 2 soffietti

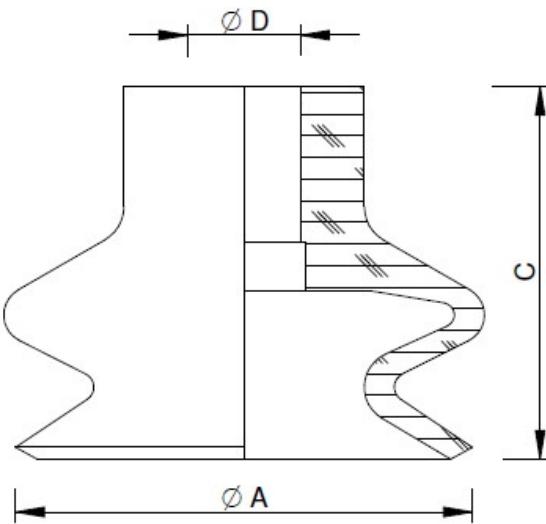
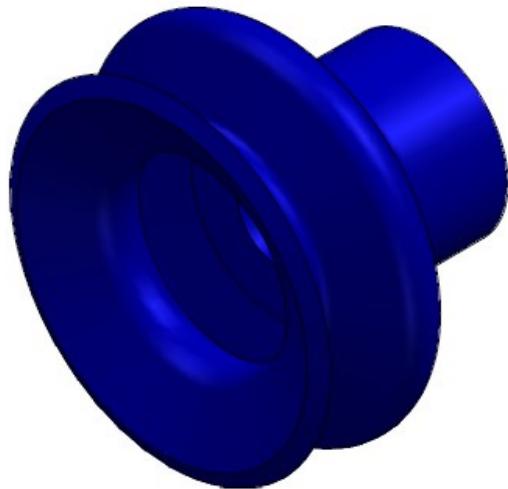


Table / Tabella

F = Holding force
 Forza di tenuta

Article no.	A	C	D	F(N)	Weight
CA.08.31.012	Ø 6	9	Ø 3.7	1.5	
CA.08.31.001	Ø 11			2.4	
CA.08.31.002	Ø 14	16	Ø 5	3.5	
CA.08.31.003	Ø 16	19		3.7	3 g
CA.08.31.004	Ø 20	16		7.7	4 g
CA.08.31.005	Ø 22	20	Ø 4.7	9	
CA.08.31.006	Ø 25	23		11	5 g
CA.08.31.007	Ø 33	27.5		19.2	7 g
CA.08.31.008	Ø 43	28	Ø 8	28	12 g
CA.08.31.009	Ø 53			59	18 g
CA.08.31.010	Ø 63	34		82	23 g
CA.08.31.011	Ø 78	46.8	Ø 12	152	32 g

Remarks / Osservazioni:

 Temperature resistance / Temperatura di resistenza
 Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)

-25° to +170°

Longer-term in °C

Nel lungo periodo in °C

-10° to +140°

Leaving few marks ☺

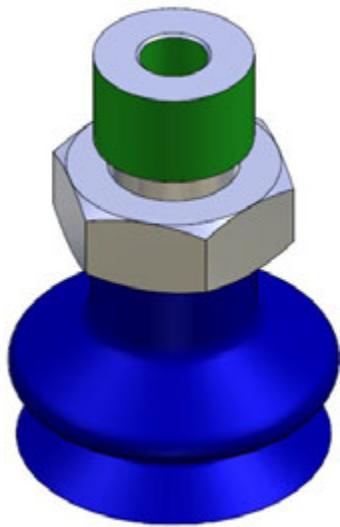
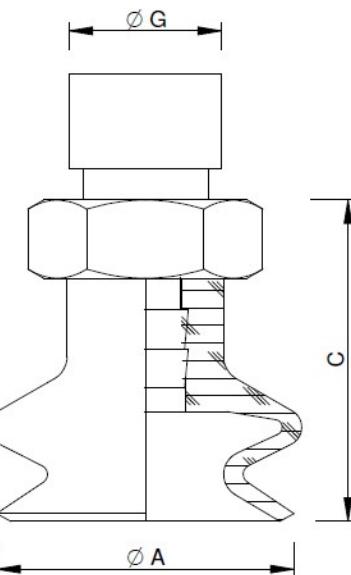
Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☺

Assenza di sostanze che danneggiano la vernice

The suction cups with 2 bellows combine the advantages of flat suction cups (precision and positioning) with the freedom of bellows (angle and flexibility). They provide flexibility, precision and low internal volume suitable for high-speed applications.

Le ventose con 2 soffietti combinano i vantaggi delle ventose piane con un movimento verticale più elevato, una maggiore elasticità e precisione. Permettono la presa di oggetti leggermente concavi e convessi.

CA.08.31**HT1****. Vacuum Cup with 2 bellows (complete)****. Ventosa de 2 fuelles (completa)**

Article no.	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.31.D06.14	CA.08.31.012	CA.08.09.014	Ø 6	14	M5	2 g
KIT.08.31.D11.4	CA.08.31.001	CA.08.09.004	Ø 11	20.5	M5	2 g
KIT.08.31.D11.9		CA.08.09.009		21	G 1/8	4 g
KIT.08.31.D14.4	CA.08.31.002	CA.08.09.004	Ø 14	20.5	M5	2 g
KIT.08.31.D14.9		CA.08.09.009		21	G 1/8	4 g
KIT.08.31.D16.4	CA.08.31.003	CA.08.09.004	Ø 16	23.5	M5	4 g
KIT.08.31.D16.9		CA.08.09.009		24	G 1/8	6 g
KIT.08.31.D20.4	CA.08.31.004	CA.08.09.004	Ø 20	20.5	M5	5 g
KIT.08.31.D20.9		CA.08.09.009		21	G 1/8	7 g
KIT.08.31.D22.4	CA.08.31.005	CA.08.09.004	Ø 22	20.5	M5	6 g
KIT.08.31.D22.9		CA.08.09.009		21	G 1/8	8 g
KIT.08.31.D25.4	CA.08.31.006	CA.08.09.004	Ø 25	27.5	M5	6 g
KIT.08.31.D25.9		CA.08.09.009		28	G 1/8	8 g
KIT.08.31.D33.11	CA.08.31.007	CA.08.09.011	Ø 33	33.5	G 1/8	11 g
KIT.08.31.D33.21		CA.08.09.021		31.5	G 1/4	15 g
KIT.08.31.D43.11	CA.08.31.008	CA.08.09.011	Ø 43	34	G 1/8	16 g
KIT.08.31.D43.21		CA.08.09.021		32	G 1/4	20 g
KIT.08.31.D53.11	CA.08.31.009	CA.08.09.011	Ø 53	40.5	G 1/8	22 g
KIT.08.31.D53.21		CA.08.09.021		38	G 1/4	26 g
KIT.08.31.D63.21	CA.08.31.010	CA.08.09.021	Ø 63	38	G 1/4	31 g
KIT.08.31.D78.24	CA.08.31.011	CA.08.09.024	Ø 78	52.8		47 g

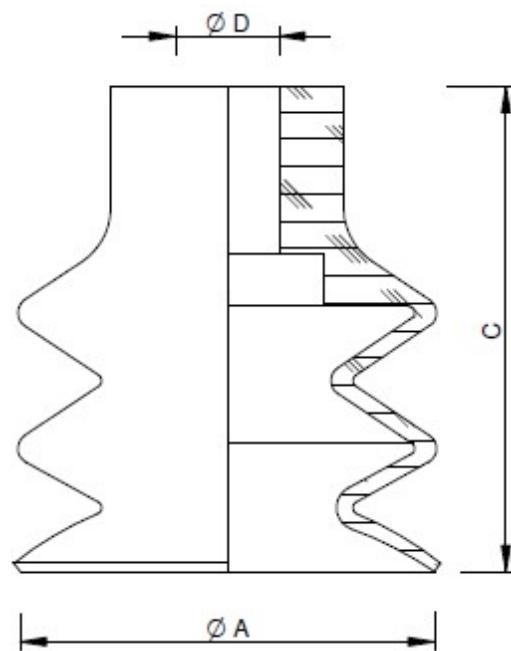
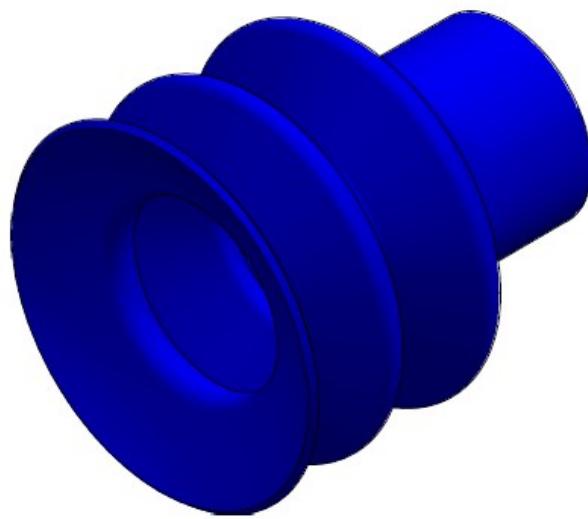
CA.08.32
HT1
. Vacuum Cup with 3 bellows only
. Ventosa con 3 soffietti


Table / Tabella

F = Holding force
Forza di tenuta

Article no.	A	C	D	F(N)	Weight
CA.08.32.D09	Ø9	15	Ø4	0.7	2 g
CA.08.32.D12	Ø12	21		0.9	3 g
CA.08.32.D14	Ø14	23		1.2	4 g
CA.08.32.D20	Ø20	22		3.8	6 g
CA.08.32.D25	Ø25	34		4.5	7 g
CA.08.32.D32	Ø32	37	Ø8	12	8 g
CA.08.32.D42	Ø42	46		13.6	10 g
CA.08.32.D52	Ø52	49		28.5	25 g
CA.08.32.D62	Ø62	54		41	39 g

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza

Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)

-25° to +170°

Longer-term in °C

Nel lungo periodo in °C

-10° to +140°

Leaving few marks ☺

Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☺

Assenza di sostanze che danneggiano la vernice

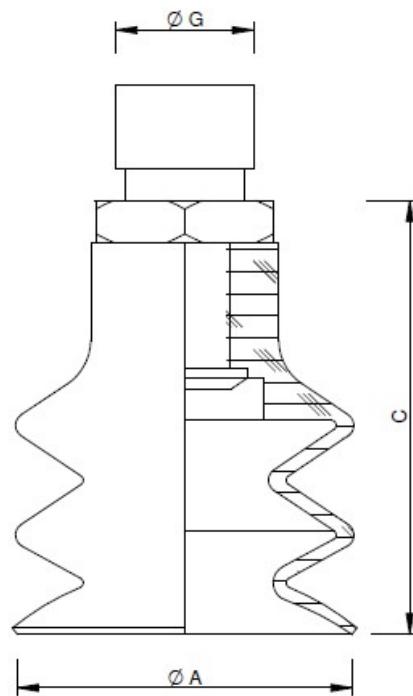
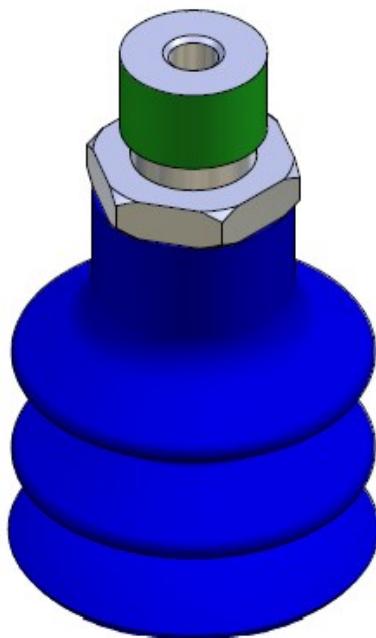
The suction cups with 3 bellows are recommended for gripping products on different planes (large deflection) - thus replacing spring systems - and for gripping spherical or cylindrical objects at an angle (ball-joint effect).

Le ventose con 3 soffietti sono indicate per la presa di prodotti con differenze di altezza (grazie al grande movimento verticale), evitando l'utilizzo di compensatori di livello, nonché per la presa di oggetti sferici o con superfici a forte curvatura.

CA.08.32**HT1**

. Vacuum Cup with 3 bellows (complete)

. Ventosa con 3 soffietti (Completa)



Article no.	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.32.D09.26	CA.08.32.D09	CA.08.09.026	Ø 9	20	M5	3 g
KIT.08.32.D12.4	CA.08.32.D12	CA.08.09.004	Ø 12	25.5	M5	4 g
KIT.08.32.D12.9		CA.08.09.009		26	G 1/8	6 g
KIT.08.32.D14.4	CA.08.32.D14	CA.08.09.004	Ø 14	27.5	M5	5 g
KIT.08.32.D14.9		CA.08.09.009		28	G 1/8	7 g
KIT.08.32.D20.4	CA.08.32.D20	CA.08.09.004	Ø 20	26.5	M5	10 g
KIT.08.32.D20.9		CA.08.09.009		27	G 1/8	12 g
KIT.08.32.D25.4	CA.08.32.D25	CA.08.09.004	Ø 25	38.5	M5	11 g
KIT.08.32.D25.9		CA.08.09.009		39	G 1/8	13 g
KIT.08.32.D32.11	CA.08.32.D32	CA.08.09.011	Ø 32	43.3	G 1/8	12 g
KIT.08.32.D32.21		CA.08.09.021		41	G 1/4	16 g
KIT.08.32.D42.11	CA.08.32.D42	CA.08.09.011	Ø 42	52.3	G 1/8	14 g
KIT.08.32.D42.21		CA.08.09.021		50	G 1/4	18 g
KIT.08.32.D52.21	CA.08.32.D52	CA.08.09.021	Ø 52	64	G1/4	33 g
KIT.08.32.D62.21	CA.08.32.D62		Ø 62	59		50 g

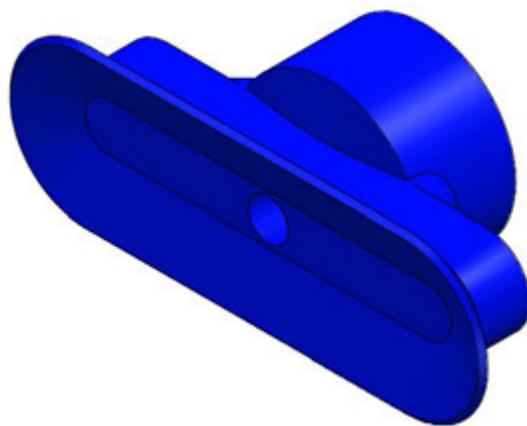
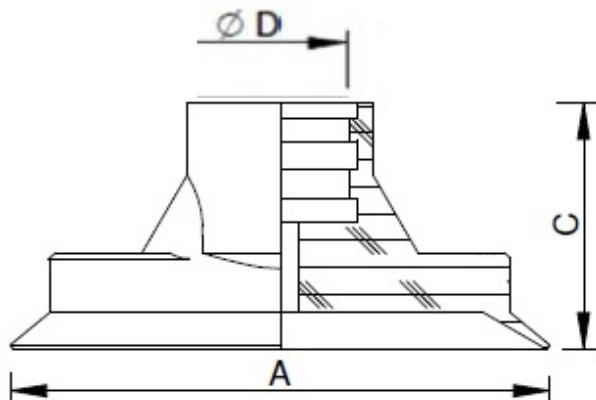
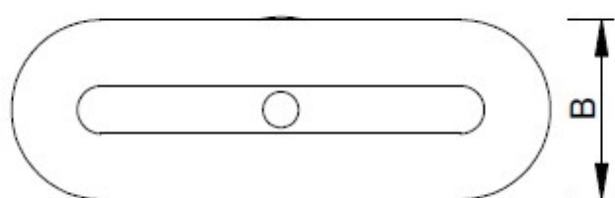
CA.08.39
HT1
. Vacuum Cup oval only
. Ventosa Oval

New


Table / Tabella

F = Holding force
Forza di tenuta

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza

Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)
-25° to +170°

Longer-term in °C

Nel lungo periodo in °C
-10° to +140°

Leaving few marks ☺

Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☺

Assenza di sostanze che danneggiano la vernice

Article no.	A	B	C	D	F(N)	Weight
CA.08.39.001	12	4	15	4	1.8 N	0.5 g
CA.08.39.002	14			4.5	3.1 N	
CA.08.39.003	17	5			4.5 N	
CA.08.39.004	23	7	12	7	8.0 N	1.0 g
CA.08.39.005	29	9			12.2 N	1.1 g
CA.08.39.006	44	14			28.2 N	3.4 g
CA.08.39.007	59	19	21	13	50.1 N	6.4 g
CA.08.39.008	74	24			73.3 N	17.9 g

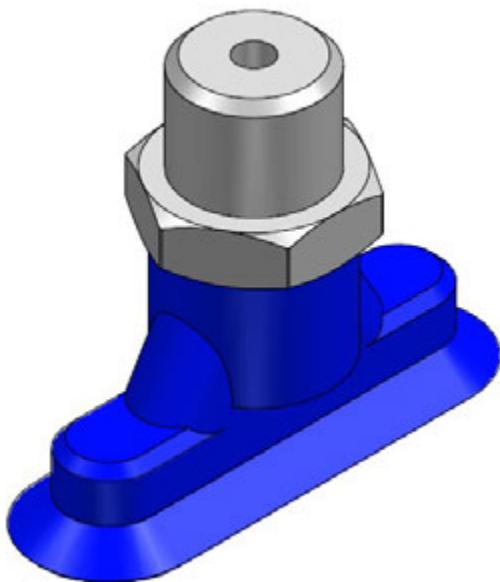
The oval series of suction cups is used for handling oblong products, such as pens, tubes and bottles, and flat or cylindrical objects.

La serie ovale di ventose è usata per la presa di prodotti oblunghi, tipo penne, tubi e bottiglie, e oggetti cilindrici o piatti.

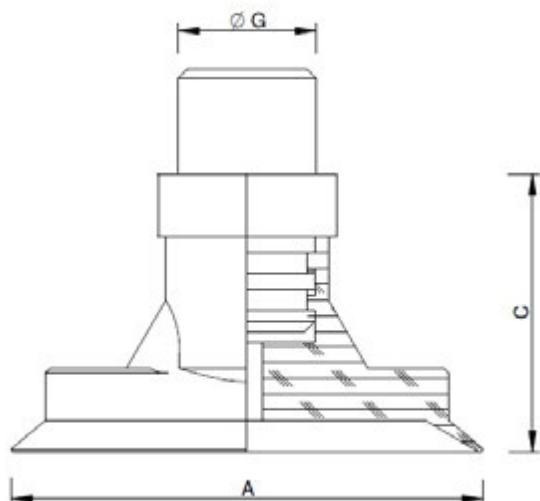
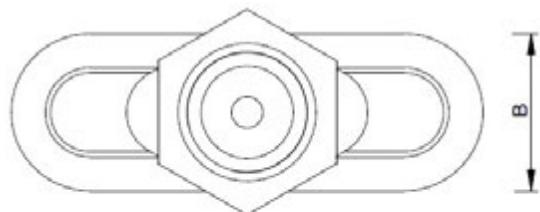
CA.08.39**HT1**

. Vacuum Cup Oval (complete)

. Ventosa Ovale (Completa)



New



Article no.	VACUUM CUP	NIPPLE	A	B	C	G	Weight
KIT.08.39.L12.40	CA.08.39.001	CA.08.09.040	12	5	18		2.9 g
KIT.08.39.L15.28	CA.08.39.002	CA.08.09.028	14	4		M5	3,4 g
KIT.08.39.L18.28	CA.08.39.003	CA.08.09.028	17	5			3.7 g
KIT.08.39.L24.27	CA.08.39.004	CA.08.09.027	23	7			6.7 g
KIT.08.39.L30.27	CA.08.39.005	CA.08.09.027	29	9			6.8 g
KIT.08.39.L45.41	CA.08.39.006	CA.08.09.041	44	14			14.8 g
KIT.08.39.L60.41	CA.08.39.007	CA.08.09.041	59	19	26	G1/4	19.0 g
KIT.08.39.L75.41	CA.08.39.008	CA.08.09.041	74	24			26.9 g

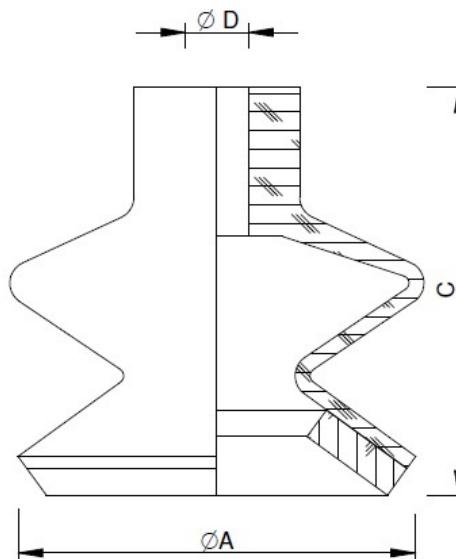
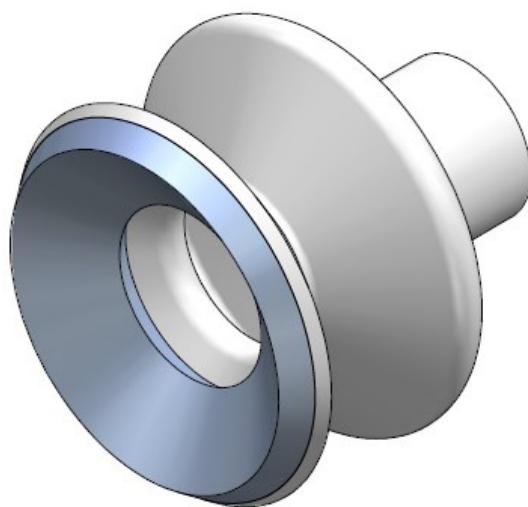
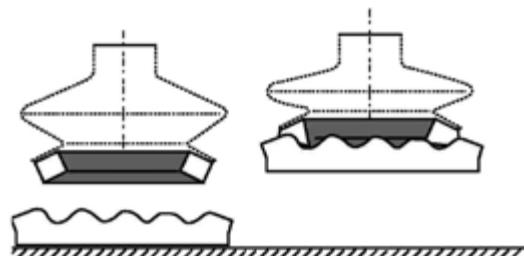
CA.08.26
SILICONE
. Vacuum Cup with 2 bellows and foam strip
. Ventosa con 2 soffietti con anello in spugna


Table / Tabella

F = Holding force
Forza di tenuta


Article no.	A	C	D	F(N)	Weight
CA.08.26.D16.AS	Ø16	21	Ø3.8	7	2 g
CA.08.26.D20.AS	Ø20	18		9	
CA.08.26.D25.AS	Ø25	25		11	3 g
CA.08.26.D33.AS	Ø33	29	Ø8	19.2	7 g
CA.08.26.D43.AS	Ø43	32		28	13 g
CA.08.26.D53.AS	Ø53	38		59	22 g
CA.08.26.D63.AS	Ø63	37		82	26 g
CA.08.26.D78.AS	Ø78	51	Ø12	152	51 g

Remarks / Osservazioni:

Temperature resistance /
Temperatura di resistenza

Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)

-50° to +220°

Longer-term in °C

Nel lungo periodo in °C

-30° to +180°

Leaving few marks ☺
Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☺

Assenza di sostanze che danneggiano la vernice

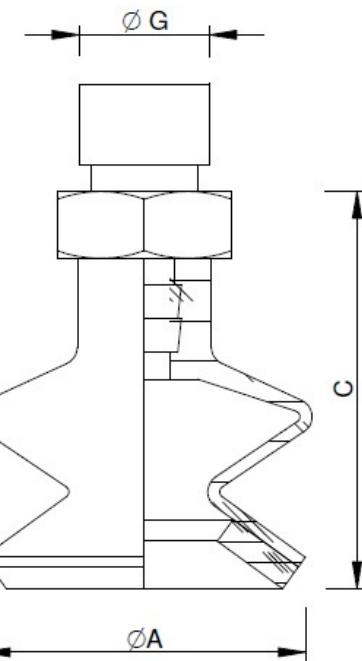
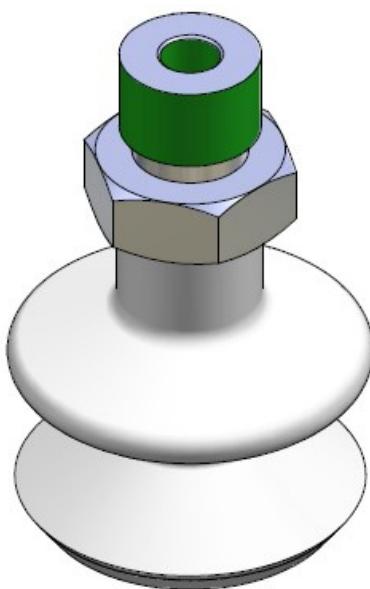
The suction cups with foam ring are designed for gripping products with an uneven or ridged surface, Ex. Sawn wood, sheet metal, flat surfaces with bumps or hollows. Those suction cups cannot adhere correctly to any granular surface and therefore cannot be airtight.

Le ventose con anella sono ideate per prodotti di presa per superfici irregolari. Es. legno segato, foglio di metallo, superfici piatte con protuberanze o vuoti. Tutte le superfici granulari alle quali le ventose non possono aderire correttamente, non possono quindi essere a tenuta d'aria.

CA.08.26

- Vacuum Cup with 2 bellows and foam strip (complete)**

- Ventosa con 2 soffietti con anello in spugna (completa)**



Article no.	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.26.D16.4 KIT.08.26.D16.9	CA.08.26.D16.AS	CA.08.09.004 CA.08.09.009	Ø16	25.5 26	M5 G 1/8	3 g 6 g
KIT.08.26.D20.4 KIT.08.26.D20.9	CA.08.26.D20.AS	CA.08.09.004 CA.08.09.009	Ø20	22.5 23	M5 1/8	3 g 6 g
KIT.08.26.D25.4 KIT.08.26.D25.9	CA.08.26.D25.AS	CA.08.09.004 CA.08.09.009	Ø25	29.5 30	M5 1/8"	4 g 6 g
KIT.08.26.D33.11 KIT.08.26.D33.21	CA.08.26.D33.AS	CA.08.09.011 CA.08.09.021	Ø33	35.3 33	1/8" 1/4"	11 g 15 g
KIT.08.26.D43.11 KIT.08.26.D43.21	CA.08.26.D43.AS	CA.08.09.011 CA.08.09.021	Ø43	38.3 36	1/8" 1/4"	17 g 21 g
KIT.08.26.D53.11 KIT.08.26.D53.21	CA.08.26.D53.AS	CA.08.09.011 CA.08.09.021	Ø53	44.3 42	1/8" 1/4"	26 g 30 g
KIT.08.26.D63.11 KIT.08.26.D63.21	CA.08.26.D63.AS	CA.08.09.011 CA.08.09.021	Ø63	43.3 41	1/8" 1/4"	30 g 34 g
KIT.08.26.D78.24	CA.08.26.D78.AS	CA.08.09.024	Ø78	57	1/4"	57 g

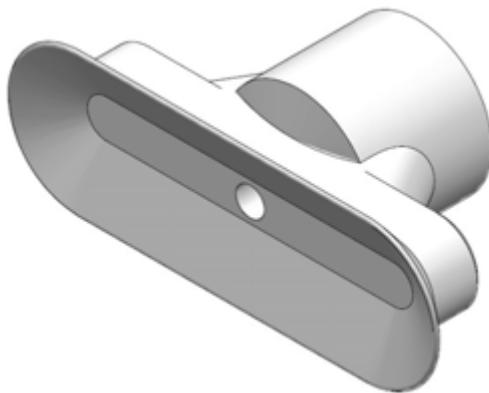
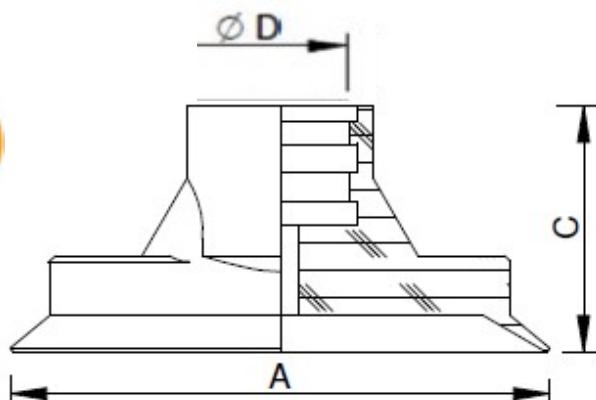
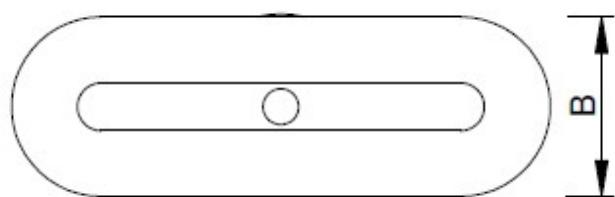
CA.08.40
SILICONE
. Vacuum Cup oval only
. Ventosa Oval

New


Table / Tabella

F = Holding force
Forza di tenuta

Remarks / Osservazioni:

Article no.	A	B	C	D	F(N)	Weight
CA.08.40.001	12	4	15	Ø4	1.8	0.5 g
CA.08.40.002	15	5	12	Ø4.5	3.1	
CA.08.40.003	18	6			4.5	
CA.08.40.004	24	8	21	Ø7	8	1.0 g
CA.08.40.005	30	10			12.2	1.1 g
CA.08.40.006	45	15			28.2	3.4 g
CA.08.40.007	60	20	Ø13		50.1	6.4 g
CA.08.40.008	75	25			78.3	17.9 g

The oval series of suction cups is used for handling oblong products, such as pens, tubes and bottles, and flat or cylindrical objects.

La serie ovale di ventose è usata per la presa di prodotti oblunghi, tipo penne, tubi e bottiglie, e oggetti cilindrici o piatti.

Temperature resistance /
Temperatura di resistenza
Short-term in °C (< 30 sec.)
Nel breve periodo in °C (< 30 sec.)
-50° to +220°
Longer-term in °C
Nel lungo periodo in °C
-30° to +180°

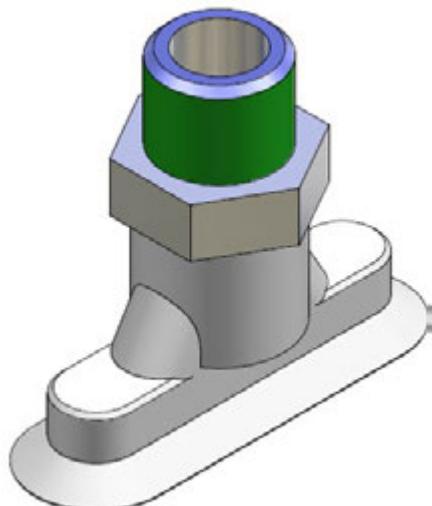
Leaving few marks ☒
Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☒
Assenza di sostanze che danneggiano la vernice

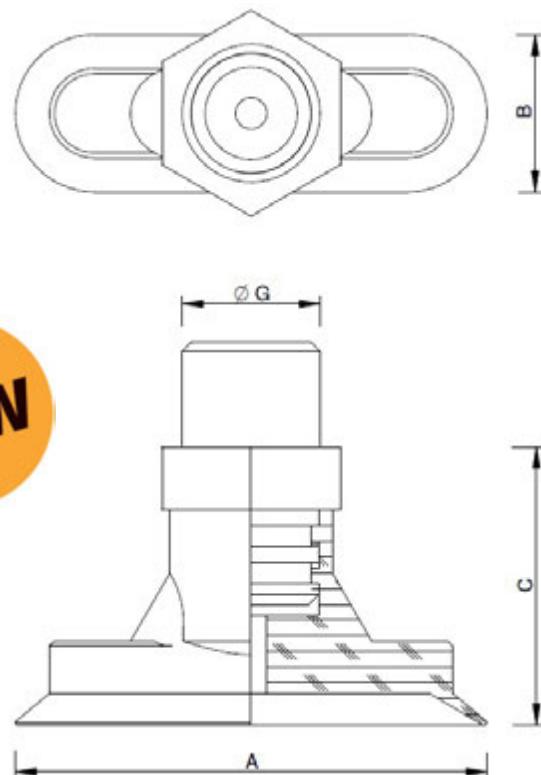
CA.08.40**SILICONE**

. Vacuum Cup Oval (complete)

. Ventosa ovale (completa)



New



Article no.	VACUUM CUP	NIPPLE	A	B	C	G	Weight
KIT.08.40.L12.40	CA.08.40.001	CA.08.09.040	12	4	18		2.9 g
KIT.08.40.L15.28	CA.08.40.002	CA.08.09.028	15	5	17	M5	3.4 g
KIT.08.40.L18.28	CA.08.40.003		18	6			3.7 g
KIT.08.40.L24.27	CA.08.40.004	CA.08.09.027	24	8		G 1/8	6.7 g
KIT.08.40.L30.27	CA.08.40.005		30	10			6.8 g
KIT.08.40.L45.41	CA.08.40.006	CA.08.09.041	45	15	26	G 1/4	14.8 g
KIT.08.40.L60.41	CA.08.40.007		60	20			19 g
KIT.08.40.L75.41	CA.08.40.008		75	25			26.9 g

CA.08.28
SILICONE

. Vacuum Cup with 1 bellow only

. Ventosa con 1 soffietto

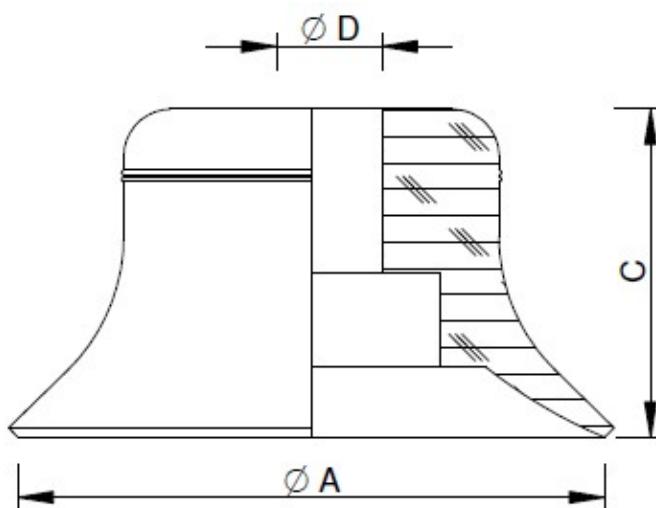
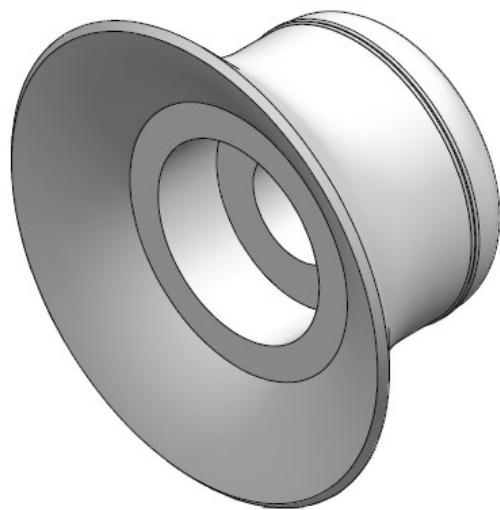


Table / Tabella

F = Holding force
Forza di tenuta

Remarks / Osservazioni:

Article no.	A	C	D	F(N)	Weight	Temperature resistance / Temperatura di resistenza Short-term in °C (< 30 sec.) <i>Nel breve periodo in °C (< 30 sec.)</i> -50° to +220° Longer-term in °C <i>Nel lungo periodo in °C</i> -30° to +180°	
CA.08.28.001	Ø5	6.5	Ø4	0.75	1 g	 Leaving few marks ☺ <i>Rimanenza di segno</i>	
CA.08.28.002	Ø6			1.2			
CA.08.28.003	Ø8			2.3			
CA.08.28.004	Ø10			4			
CA.08.28.005	Ø15		Ø4.5	9		 Absence of PWIS (paint-wetting impairment substances) ☺ <i>Assenza di sostanze che danneggiano la vernice</i>	
CA.08.28.006	Ø20			15.5			
CA.08.28.007	Ø25	14	Ø6	26.5	2 g		
CA.08.28.008	Ø30	12		34	3 g		
CA.08.28.009	Ø35	14		44	5 g		
CA.08.28.010	Ø40			57.7	7 g		
CA.08.28.011	Ø50	15	Ø8	91	15 g	The suction cups with 1 bellow provide accuracy in load gripping and speed up throughput rates. These suction cups are used for flat surfaces only.	
CA.08.28.012	Ø60	18	M10x1.25	125	19 g		
CA.08.28.013	Ø80	20		260	38 g		

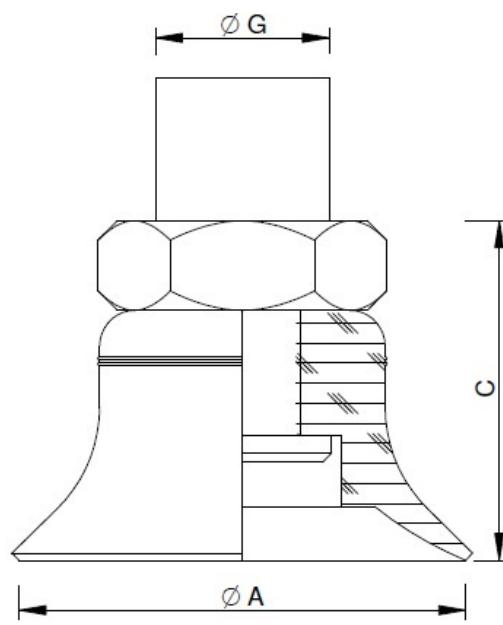
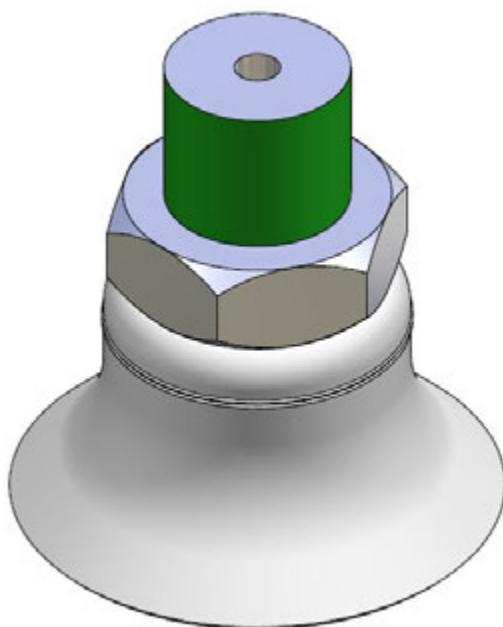
The suction cups with 1 bellow provide accuracy in load gripping and speed up throughput rates. These suction cups are used for flat surfaces only.

La serie di ventose con un soffietto, grazie al loro profilo, garantiscono un'elevata precisione di presa e permettono di aumentare la cadenza operativa. Queste ventose sono indicate per oggetti con superfici piane.

CA.08.28**SILICONE**

. Vacuum Cup with 1 bellow (complete)

. Ventosa con 1 soffietto (Completa)



Article no.	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.28.D05	CA.08.28.001	CA.08.09.014	Ø 5	9.5	M5	6 g
KIT.08.28.D06	CA.08.28.002		Ø 6			
KIT.08.28.D08	CA.08.28.003		Ø 8	12		
KIT.08.28.D10	CA.08.28.004		Ø 10	12.5		
KIT.08.28.D15	CA.08.28.005	CA.08.09.015	Ø 15	13.3	G 1/8	7 g
KIT.08.28.D20	CA.08.28.006	CA.08.09.016	Ø 20	15		
KIT.08.28.D25	CA.08.28.007	CA.08.09.017	Ø 25	19		
KIT.08.28.D30	CA.08.28.008		Ø 30	17		
KIT.08.28.D35	CA.08.28.009		Ø 35	19	G 1/4	10 g
KIT.08.28.D40	CA.08.28.010		Ø 40			12 g
KIT.08.28.D50	CA.08.28.011	CA.08.09.019	Ø 50	20		20 g
KIT.08.28.D60	CA.08.28.012		Ø 60	23		24 g
KIT.08.28.D80	CA.08.28.013		Ø 80	25		43 g

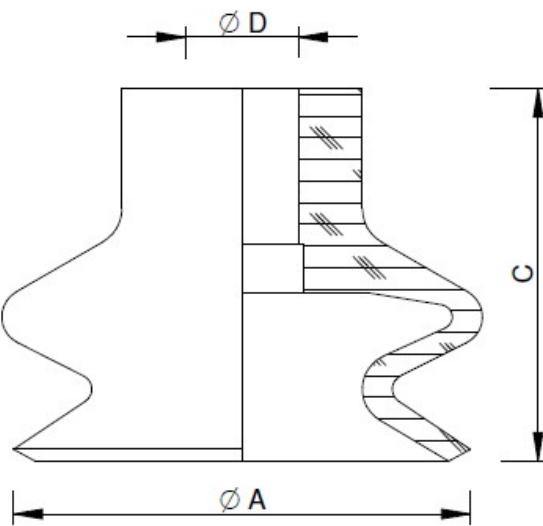
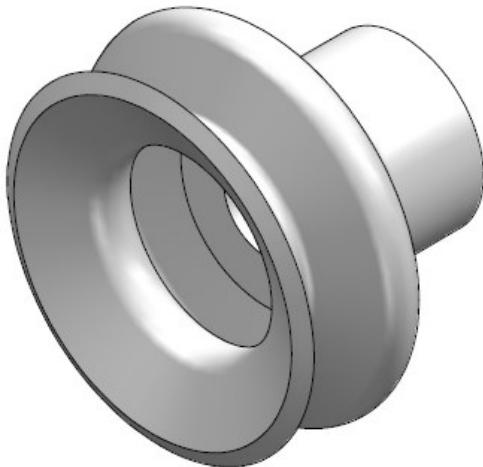
CA.08.30
SILICONE
. Vacuum Cup with 2 bellows only
. Ventosa con 2 soffietti


Table / Tabella

F = Holding force
Forza di tenuta

Article no.	A	C	D	F(N)	Weight
CA.08.30.012	Ø6	9	Ø3.7	1.5	
CA.08.30.001	Ø10			1.2	1 g
CA.08.30.002	Ø12	16			
CA.08.30.003	Ø16	19	Ø4.5	2.3	
CA.08.30.004	Ø18	15		4.7	1.5 g
CA.08.30.005	Ø23	23		5.3	3 g
CA.08.30.006	Ø30	27		13.6	7 g
CA.08.30.007	Ø38	28	Ø8	23	11 g
CA.08.30.008	Ø50			51	19 g
CA.08.30.009	Ø60	34		85	24 g
CA.08.30.010	Ø74	47	Ø12	137	56 g

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza

Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)

-50° to +220°

Longer-term in °C

Nel lungo periodo in °C

-30° to +180°

Leaving few marks ☺

Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☺

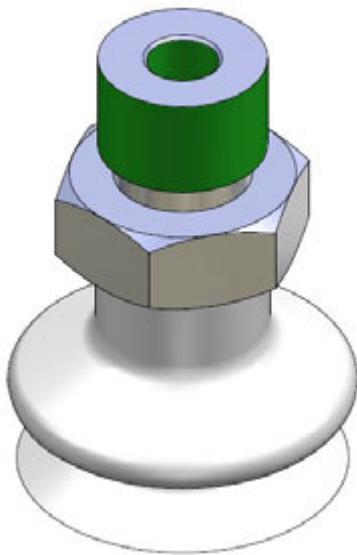
Assenza di sostanze che danneggiano la vernice

The suction cups with 2 bellows combine the advantages of flat suction cups (precision and positioning) with the freedom of bellows (angle and flexibility). They provide flexibility, precision and low internal volume suitable for high-speed applications.

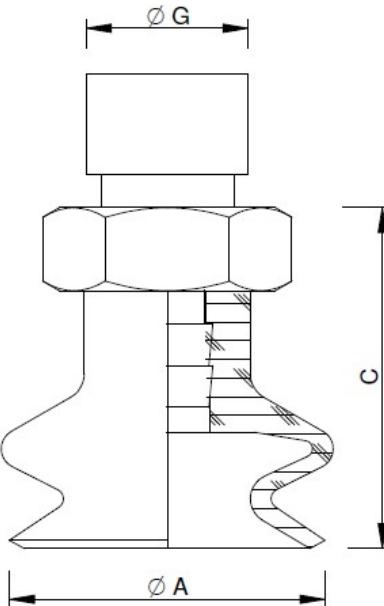
Le ventose con 2 soffietti combinano i vantaggi delle ventose piane con un movimento verticale più elevato, una maggiore elasticità e precisione. Permettono la presa di oggetti leggermente concavi e convessi.

CA.08.30

. Vacuum Cup with 2 bellows (complete)



. Ventosa con 2 soffietti (completa)



Article no.	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.30.D06.14	CA.08.30.012	CA.08.09.014	Ø6	14	M5	2 g
KIT.08.30.D11.4	CA.08.30.001	CA.08.09.004	Ø11	20.5	M5	2 g
KIT.08.30.D11.9		CA.08.09.009		21	G 1/8	4 g
KIT.08.30.D14.4	CA.08.30.002	CA.08.09.004	Ø14	20.5	M5	2 g
KIT.08.30.D14.9		CA.08.09.009		21	G 1/8	4 g
KIT.08.30.D16.4	CA.08.30.003	CA.08.09.004	Ø16	23.5	M5	4 g
KIT.08.30.D16.9		CA.08.09.009		24	G 1/8	6 g
KIT.08.30.D20.4	CA.08.30.004	CA.08.09.004	Ø20	20.5	M5	5 g
KIT.08.30.D20.9		CA.08.09.009		21	G 1/8	7 g
KIT.08.30.D25.4	CA.08.30.005	CA.08.09.004	Ø25	27.5	M5	6 g
KIT.08.30.D25.9		CA.08.09.009		28	G 1/8	8 g
KIT.08.30.D33.11	CA.08.30.006	CA.08.09.011	Ø33	33.5	G 1/8	11 g
KIT.08.30.D33.21		CA.08.09.021		31.5	G 1/4	15 g
KIT.08.30.D43.11	CA.08.30.007	CA.08.09.011	Ø43	34	G 1/8	16 g
KIT.08.30.D43.21		CA.08.09.021		32	G 1/4	20 g
KIT.08.30.D53.11	CA.08.30.008	CA.08.09.011	Ø53	40.5	G 1/8	22 g
KIT.08.30.D53.21		CA.08.09.021		38	G 1/4	26 g
KIT.08.30.D63.11	CA.08.30.009	CA.08.09.011	Ø63	40.5	G 1/8	27 g
KIT.08.30.D63.21		CA.08.09.021		38	G 1/4	31 g
KIT.08.30.D78.24	CA.08.30.010	CA.08.09.024	Ø78	52.8	G 1/4	47 g

CA.08.33
SILICONE

. Vacuum Cup with 3 bellows only

. Ventosa con 3 soffietti

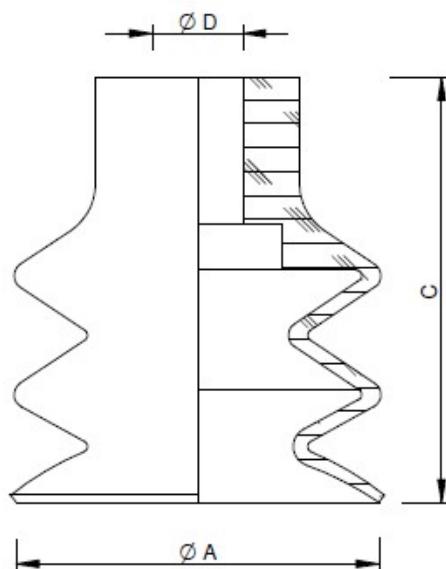
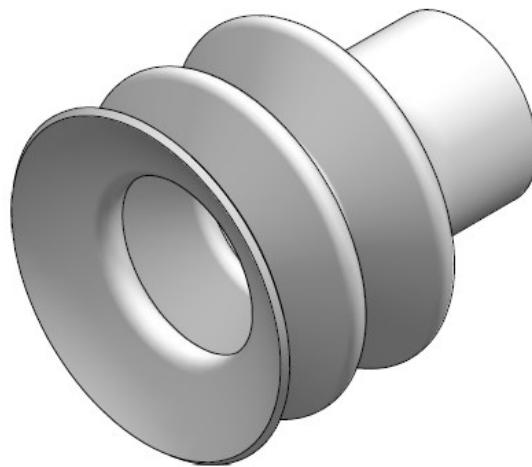


Table / Tabella

F = Holding force
Forza di tenuta

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza

Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)

-50° to +220°

Longer-term in °C

Nel lungo periodo in °C

-30° to +180°

Leaving few marks

Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances)

Assenza di sostanze che danneggiano la vernice

Article no.	A	C	D	F(N)	Weight
CA.08.33.D5	Ø5	14	Ø3.5	0.15	1 g
CA.08.33.D7	Ø7			0.1	
CA.08.33.D9	Ø9			0.68	
CA.08.33.D12	Ø12			0.9	
CA.08.33.D14	Ø14			1.2	
CA.08.33.D20	Ø20			3.8	
CA.08.33.D25	Ø25			4.5	
CA.08.33.D32	Ø32		Ø8	12.0	
CA.08.33.D42	Ø42			13.6	
CA.08.33.D52	Ø52			27	
CA.08.33.D60	Ø60			32	
				60 g	

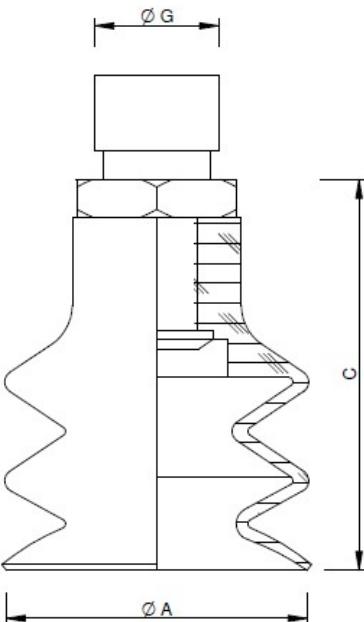
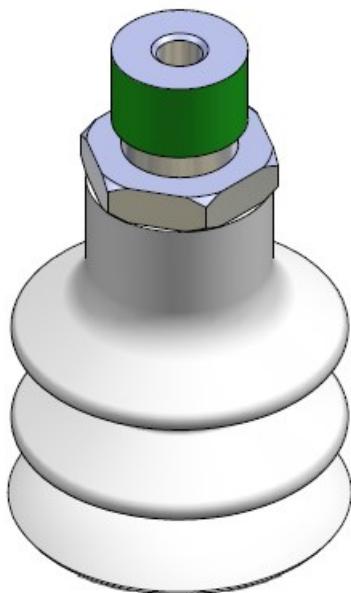
The suction cups with 3 bellows are recommended for gripping products on different planes (large deflection) - thus replacing spring systems - and for gripping spherical or cylindrical objects at an angle (ball-joint effect).

Le ventose con 3 soffietti sono indicate per la presa di prodotti con differenze di altezza (grazie al grande movimento verticale), evitando l'utilizzo di compensatori di livello, nonché per la presa di oggetti sferici o con superfici a forte curvatura.

CA.08.33**SILICONE**

. Vacuum Cup with 3 bellows (complete)

. Ventosa con 3 soffietti (completa)



Article no.	VACUUM CUP	NIPPLE	A	C	B	Weight
KIT.08.33.D5.25	CA.08.33.D5	CA.08.09.025	Ø 5	8.5	M5	2 g
KIT.08.33.D7.26	CA.08.33.D7	CA.08.09.026	Ø 7	9		3 g
KIT.08.33.D9.26	CA.08.33.D9	CA.08.09.026	Ø 9	20	M5	4 g
KIT.08.33.D12.4	CA.08.33.D12	CA.08.09.004	Ø 12	25.5		6 g
KIT.08.33.D12.9		CA.08.09.009		26	M5	5 g
KIT.08.33.D14.4	CA.08.33.D14	CA.08.09.004	Ø 14	27.5	G 1/8	7 g
KIT.08.33.D14.9		CA.08.09.009		28		10 g
KIT.08.33.D20.4	CA.08.33.D20	CA.08.09.004	Ø 20	26.5	M5	12 g
KIT.08.33.D20.9		CA.08.09.009		27		11 g
KIT.08.33.D25.4	CA.08.33.D25	CA.08.09.004	Ø 25	38.5	G 1/8	13 g
KIT.08.33.D25.9		CA.08.09.009		39		16 g
KIT.08.33.D32.11	CA.08.33.D32	CA.08.09.011	Ø 32	43.3	G1/8 G1/4	14 g
KIT.08.33.D32.21		CA.08.09.021		41		18 g
KIT.08.33.D42.11	CA.08.33.D42	CA.08.09.011	Ø 42	52.3	G1/8 G1/4	24 g
KIT.08.33.D42.21		CA.08.09.021		50		28 g
KIT.08.33.D52.11	CA.08.33.D52	CA.08.09.011	Ø 52	55.3	G1/8 G1/4	68 g
KIT.08.33.D52.21		CA.08.09.021		53		
KIT.08.33.D60.21	CA.08.33.D60	CA.08.09.021	Ø 60	59	G 1/4	

CA.08.01
SILICONE

. Vacuum Cup with 2 bellows only

. Ventosa con 2 soffietti

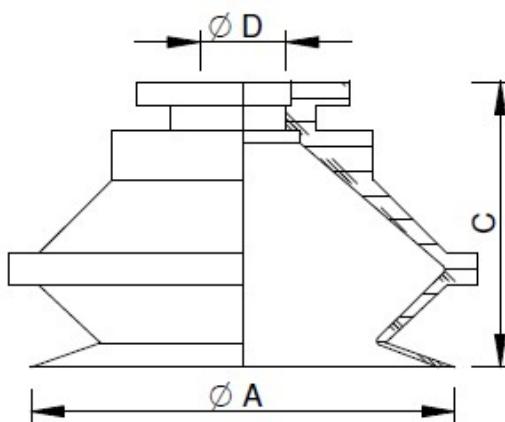
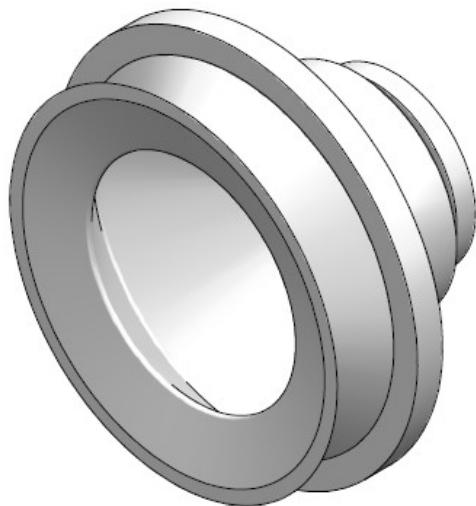


Table / Tabella

F = Holding force
Forza di tenuta

Article no	A	C	D	F(N)	Weight
CA.08.01.001	Ø 11	16	Ø 4	4.6	1 g
CA.08.01.002	Ø 16	19		7.5	2 g
CA.08.01.003	Ø 20	19.5	Ø 4.8	14.7	3 g
CA.08.01.004	Ø 30	27	Ø 6	25.5	6 g
CA.08.01.005	Ø 40	28	Ø 8	48.1	7 g
CA.08.01.006	Ø 50	35	Ø 10.5	83.3	15 g

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza

Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)

-50° to +220°

Longer-term in °C

Nel lungo periodo in °C

-30° to +180°

Leaving few marks ☺

Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☺

Assenza di sostanze che danneggiano la vernice

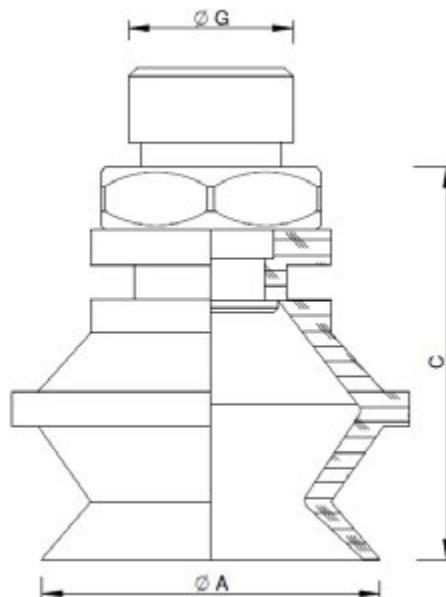
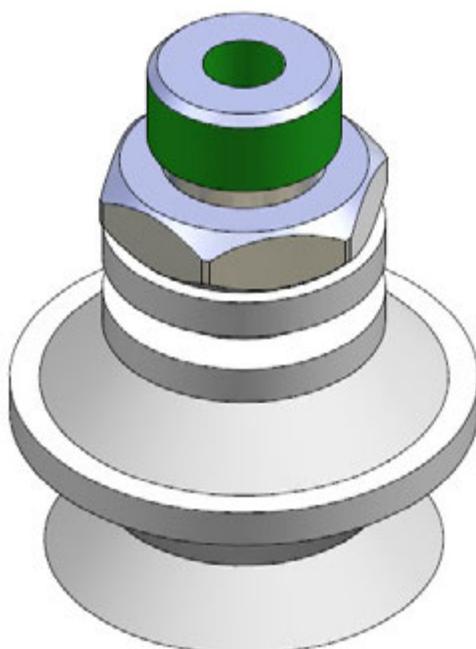
The suction cups with 2 bellows combine the advantages of flat suction cups (precision and positioning) with the freedom of bellows (angle and flexibility). They provide flexibility, precision and low internal volume suitable for high-speed applications.

Le ventose con 2 soffietti combinano i vantaggi delle ventose piane con un movimento verticale più elevato, una maggiore elasticità e precisione. Permettono la presa di oggetti leggermente concavi e convessi.

CA.08.01**SILICONE**

. Vacuum Cup with 2 bellows (complete)

. Ventosa con 2 soffietti (completa)



Article no.	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.01.D11.4	CA.08.01.001	CA.08.09.004	Ø 11	20.5	M5	2 g
KIT.08.01.D11.9		CA.08.09.009		21	G 1/8	4 g
KIT.08.01.D16.4	CA.08.01.002	CA.08.09.004	Ø 16	23.5	M5	3 g
KIT.08.01.D16.9		CA.08.09.009		24	G 1/8	4 g
KIT.08.01.D20.1	CA.08.01.003	CA.08.09.001.AL	Ø 20	23		5.5 g
KIT.08.01.D30.2	CA.08.01.004	CA.08.09.002.AL	Ø 30	32	G 1/8	18 g
KIT.08.01.D40.2	CA.08.01.005		Ø 40	33		19 g
KIT.08.01.D50.3	CA.08.01.006	CA.08.09.003	Ø 50	39	G 1/4	18 g

CA.08.03
SILICONE
. Vacuum Cup with 1 bellow only

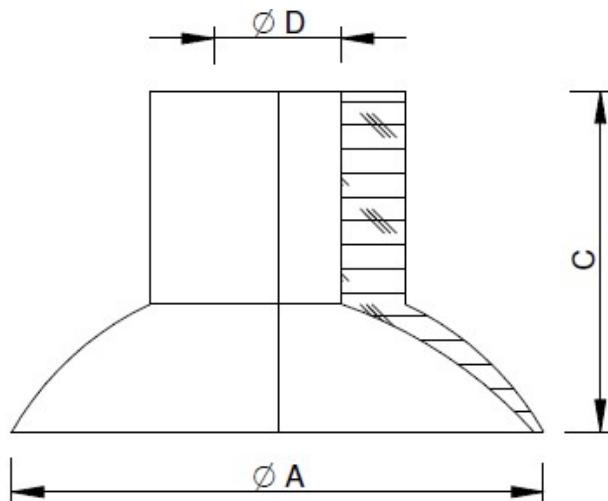
. Ventosa con 1 soffietto


Table / Tabella

F = Holding force
Forza di tenuta

Article no.	A	C	D	F(N)	Weight
CA.08.03.001	Ø6	8	Ø1.5	0.7	1 g
CA.08.03.002	Ø8		Ø3	1.0	
CA.08.03.003	Ø10	11	Ø4	1.7	2 g
CA.08.03.004	Ø12			2.4	
CA.08.03.005	Ø15	12	Ø6	3.9	3 g
CA.08.03.006	Ø20	13		7.25	
CA.08.03.007	Ø25	16	Ø6	12.2	5 g
CA.08.03.008	Ø30			16.7	
CA.08.03.009	Ø35	17	Ø10	23.0	8 g
CA.08.03.010	Ø45	20		39.0	
CA.08.03.011	Ø60	22		67.1	

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza

Short-term in °C (< 30 sec.)

Nel breve periodo in °C (< 30 sec.)

-50° to +220°

Longer-term in °C

Nel lungo periodo in °C

-30° to +180°

Leaving few marks ☺

Rimanenza di segno

Absence of PWIS (paint-wetting impairment substances) ☺

Assenza di sostanze che danneggiano la vernice

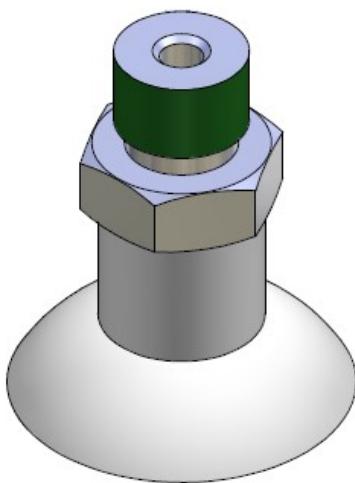
The suction cups with 1 bellow provide accuracy in load gripping and speed up throughput rates. These suction cups are used for flat surfaces only.

La serie di ventose con un soffietto, grazie al loro profilo, garantiscono un'elevata precisione di presa e permettono di aumentare la cadenza operativa. Queste ventose sono indicate per oggetti con superfici piane.

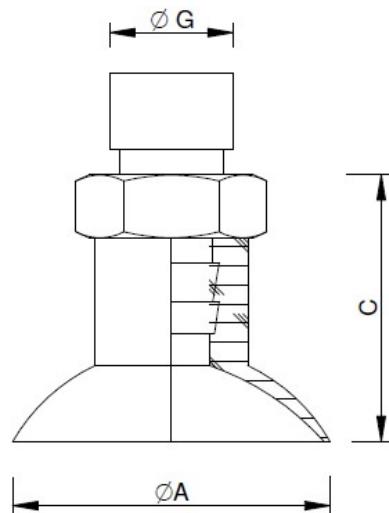
CA.08.03

SILICONE

. Vacuum Cup with 1 bellow (complete)



. Ventosa con 1 soffietto (completa)



Article no	VACUUM CUP	NIPPLE	A	C	G	Weight
KIT.08.03.D06.5	CA.08.03.001	CA.08.09.005	Ø 6	11.5	M5	
KIT.08.03.D08.6	CA.08.03.002	CA.08.09.006	Ø 8	10		
KIT.08.03.D10.4	CA.08.03.003	CA.08.09.004	Ø 10	14.51	M5	
KIT.08.03.D10.9		CA.08.09.009		15	G 1/8	
KIT.08.03.D12.4	CA.08.03.004	CA.08.09.004	Ø 12	15.51	M5	
KIT.08.03.D12.9		CA.08.09.009		16	G 1/8	
KIT.08.03.D15.4	CA.08.03.005	CA.08.09.004	Ø 15	16.51	M5	
KIT.08.03.D15.9		CA.08.09.009		17	G 1/8	
KIT.08.03.D20.4	CA.08.03.006	CA.08.09.004	Ø 20	17.51	M5	2 g
KIT.08.03.D20.9		CA.08.09.009		18	G 1/8	4 g
KIT.08.03.D25.10	CA.08.03.007	CA.08.09.010	Ø 25	21		6 g
KIT.08.03.D30.10	CA.08.03.008		Ø 30			
KIT.08.03.D35.11	CA.08.03.009	CA.08.09.011	Ø 35	23	G 1/8	7 g
KIT.08.03.D45.11	CA.08.03.010		Ø 45	26		9 g
KIT.08.03.D60.11	CA.08.03.011		Ø 60	28		12 g

CA.08.36

. Vacuum Cup with 3 bellows only

POLYURETHANE

. Ventosa con 3 soffietti

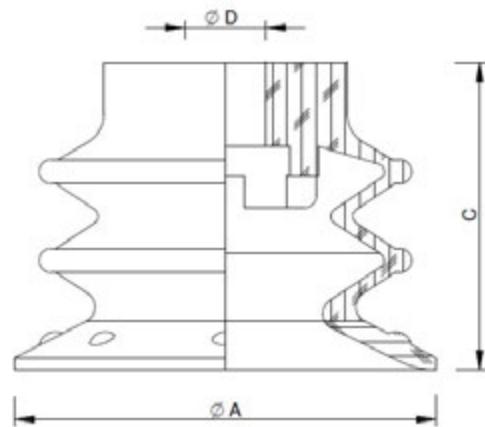
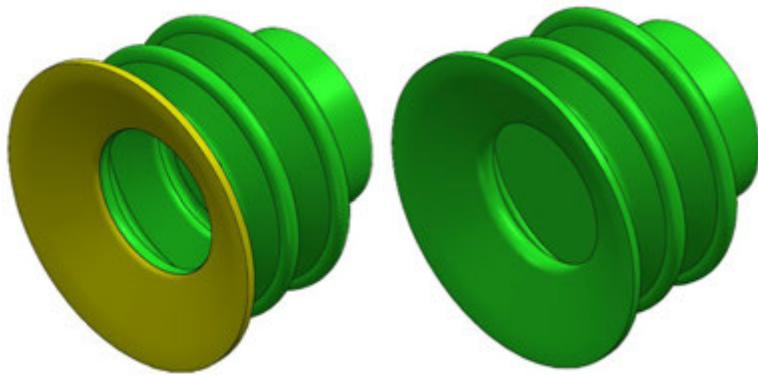


Table / Tabella

F = Holding force
Forza di tenuta

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza
+10° to +50°

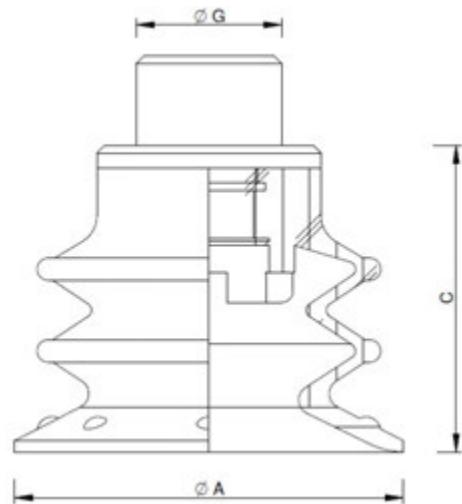
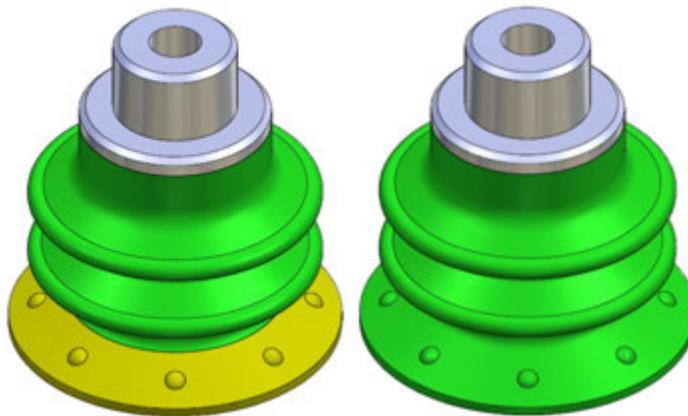
Leaving few marks / Rimanenza di segno ☺

Article no.	Sh	A	C	D	Cod. PIAB	F(N)	Weight	
CA.08.36.D10	30/60	Ø10	16.5	Ø3.8	0118329	3.7	1 g	
CA.08.36.D10.60	60				0122966			
CA.08.36.D15	30/60				0118505	4.5		
CA.08.36.D15.60	60				0124237	6		
CA.08.36.D20	30/60	Ø21	16.2	Ø5	0118507			
CA.08.36.D20.60	60				0124249	9.5		
CA.08.36.D25	30/60				0109006	18	3 g	
CA.08.36.D25.60	60	Ø26	19	Ø6.5	0108240			
CA.08.36.D35	30/60	Ø37	26.8		0106292	28	8 g	
CA.08.36.D35.60	60				0107477	30		
CA.08.36.D52	30/60	Ø53	39	Ø12	0104529	75	24 g	
CA.08.36.D52.60	60				0107381	80		
CA.08.36.D75	30/60	Ø77	51.7	/	0107145	141	71 g	
CA.08.36.D75.60	60			/	0107150	166		

CA.08.36**POLYURETHANE**

. Vacuum Cup with 3 bellows (complete)

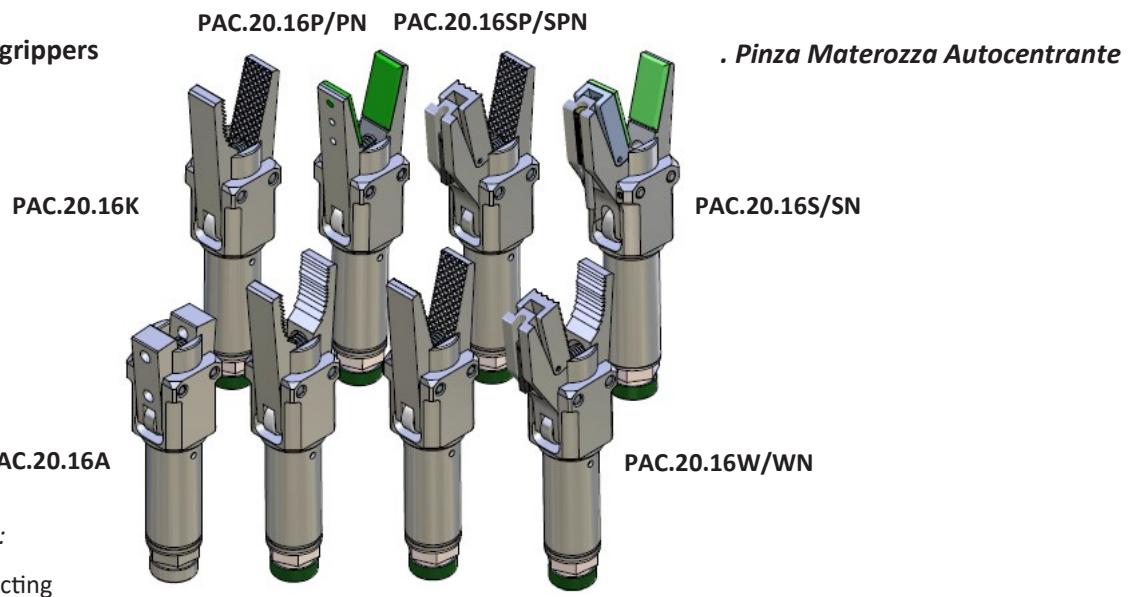
. Ventosa con 3 soffietti (completa)



Article no.	VACUUM CUP	NIPPLE	A	C	G	Cod. PIAB	Weight	
KIT.08.36.D10	CA.08.36.D10	CA.08.09.030 3107030	10	21	M5 M	0122869	2 g	
KIT.08.36.D10.60	CA.08.36.D10.60	CA.08.09.030 3107030				0122967		
KIT.08.36.D15	CA.08.36.D15	CA.08.09.030 3107030	15	23		0124344	3 g	
KIT.08.36.D15.60	CA.08.36.D15.60	CA.08.09.030 3107030				0124345		
KIT.08.36.D20	CA.08.36.D20	CA.08.09.031 0101152	20	20.2	G 1/8 M - M5 F	0125105		
KIT.08.36.D20.60	CA.08.36.D20.60	CA.08.09.031 0101152				0125110		
KIT.08.36.D25	CA.08.36.D25	CA.08.09.032 3250004	25	25		0109402	5 g	
KIT.08.36.D25.60	CA.08.36.D25.60	CA.08.09.032 3250004				0109398	65 g	
KIT.08.36.D35.1	CA.08.36.D35	CA.08.09.033 0200714	35	32.8	G 1/8 M	9912151	10 g	
KIT.08.36.D35.2		CA.08.09.034 3250091			G 1/4 M	0114449	13 g	
KIT.08.36.D35.60	CA.08.36.D35.60	CA.08.09.034 3250091	52	45	G 1/4 M	9912152	13 g	
KIT.08.36.D52	CA.08.36.D52	CA.08.09.035 3250092				0106045	35 g	
KIT.08.36.D52.60	CA.08.36.D52.60	CA.08.09.035 3250092				0107385		
KIT.08.36.D75	CA.08.36.D75	CA.08.09.036 0201077				0201073	90 g	
KIT.08.36.D75.60	CA.08.36.D75.60	CA.08.09.036 0201077	75	60.4		0101074		

CA.09 PAC

. Selfcentering sprue grippers



Remarks / Osservazioni:

Work principle: single acting
Azionamento a semplice effetto con apertura a molla

Extension thread for Extension Tube VLR
Filo prolunga per prolunga VLR

Working pressure: 6 bar clean and dry air
Pressione lavorante: 6 bar aria pulita e asciutta

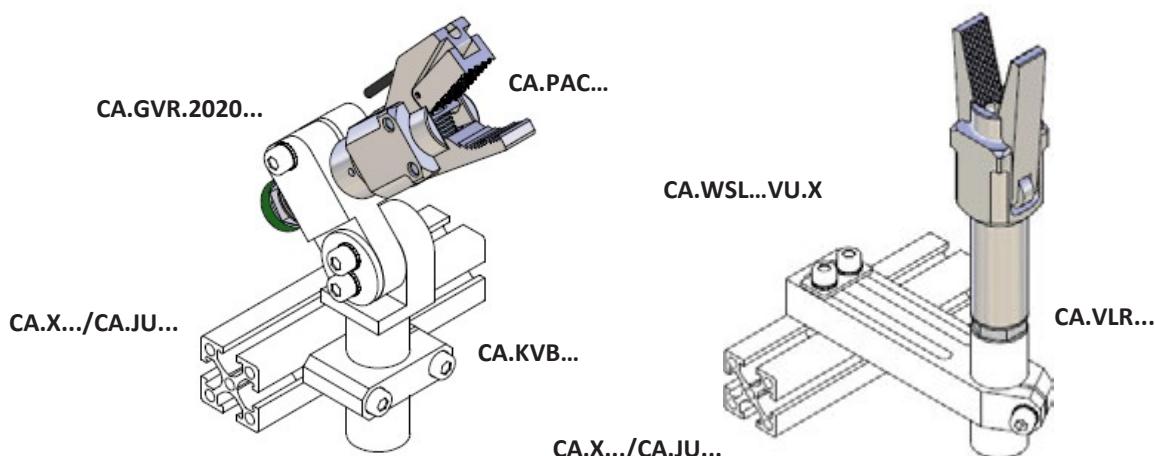
Jaws in zinc-plated Steel
Chele in acciaio zincato

Article no.	Sensor	Weight
CA.PAC20.169		153 g
CA.PAC20.16A		95 g
CA.PAC20.16E		104 g
CA.PAC20.16K		135 g
CA.PAC20.16P		102 g
CA.PAC20.16R		165 g
CA.PAC20.16S	KT58PM8	157 g
CA.PAC20.16S9		187 g
CA.PAC20.16SN	KT58NM8	192 g
CA.PAC20.16S9N		187 g
CA.PAC20.16SP	KT58PM8	111 g
CA.PAC20.16SPN	KT58NM8	
CA.PAC20.16W	KT58PM8	162 g
CA.PAC20.16WN	KT58NM8	126 g

Stroke <i>Corsa</i>	2 x 15°
Closing force (at 6 bar) <i>Forza di chiusura (a 6 bar)</i>	65 N
Maximum working frequency <i>Frequenza massima lavorante</i>	2 Hz
Cycle air consumption <i>Consumo del ciclo ad aria</i>	3.6 cm ³
Closing time without load <i>Tempo di chiusura senza carico</i>	0.01 s

Application examples / Esempi applicativi

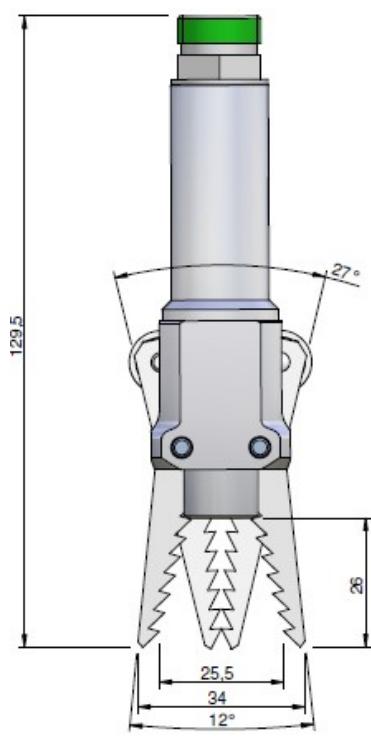
CA.PAC...



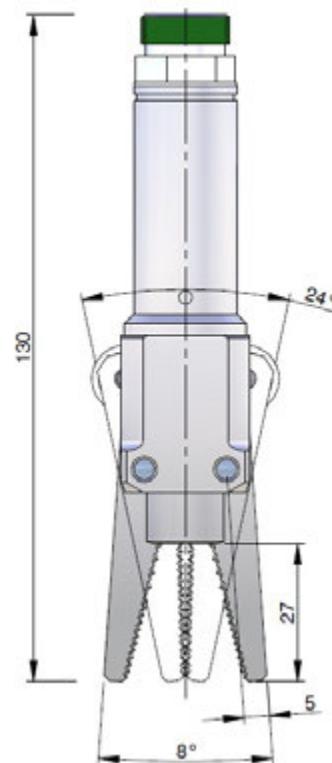
CA.09 PAC

. Dimensions

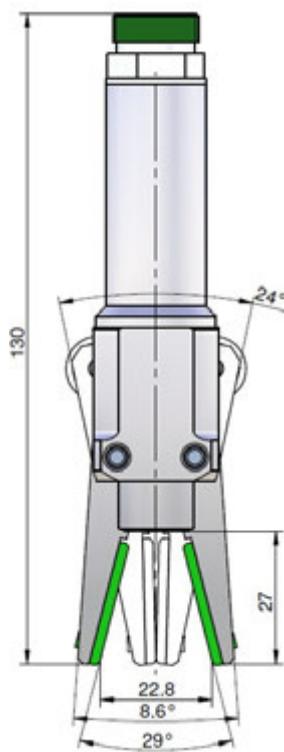
CA.PAC20.169



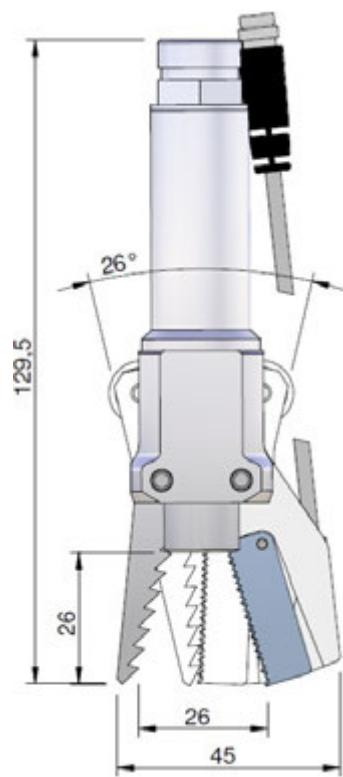
CA.PAC20.16R



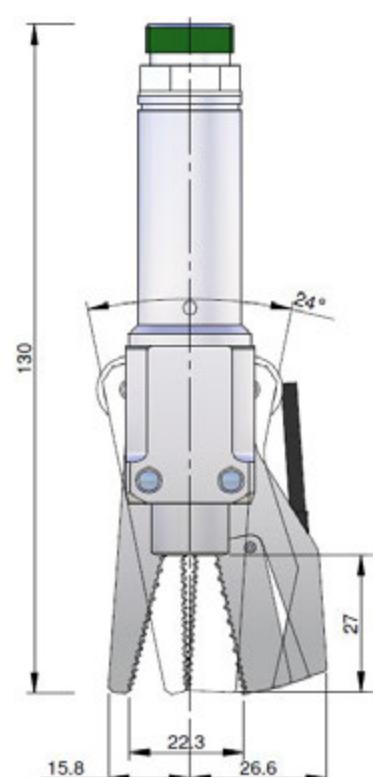
CA.PAC20.16P



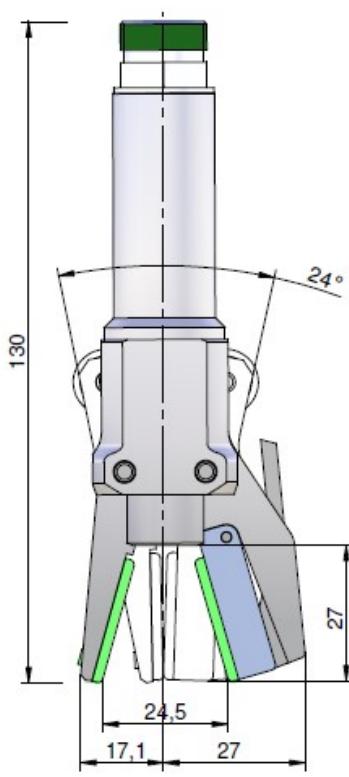
CA.PAC20.16S9/S9N



CA.PAC20.16S/SN



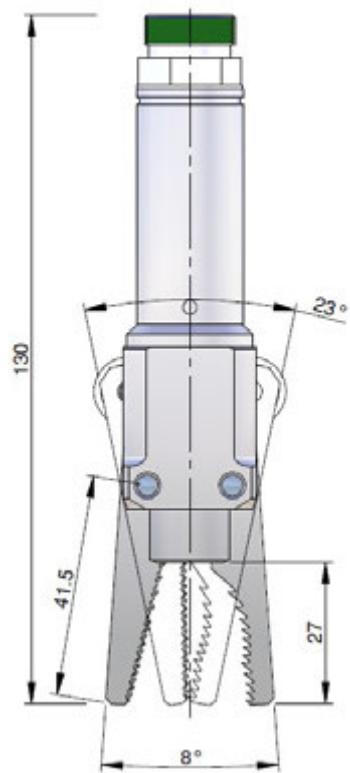
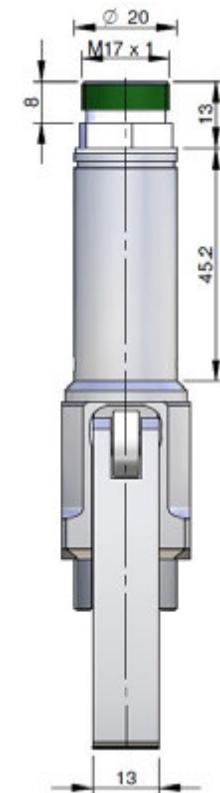
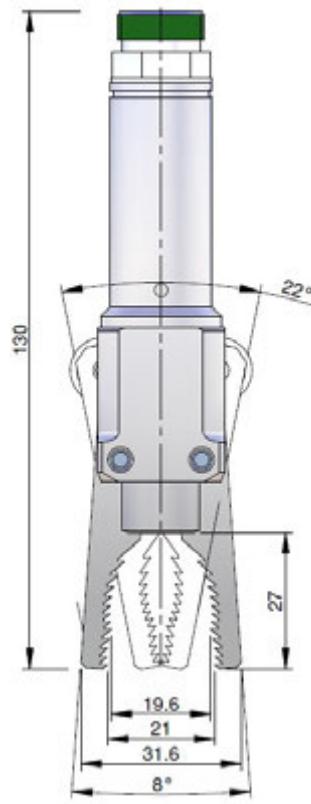
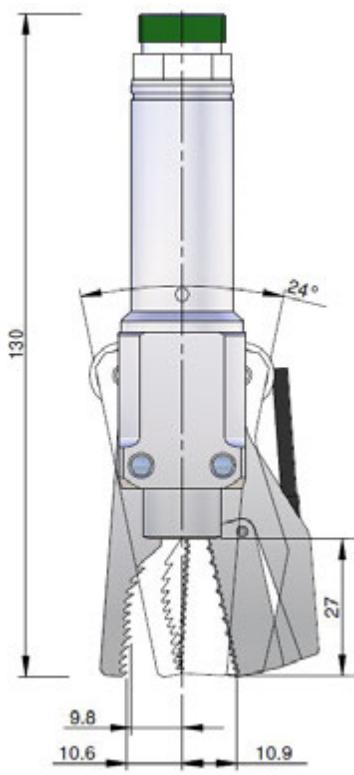
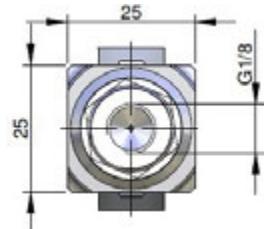
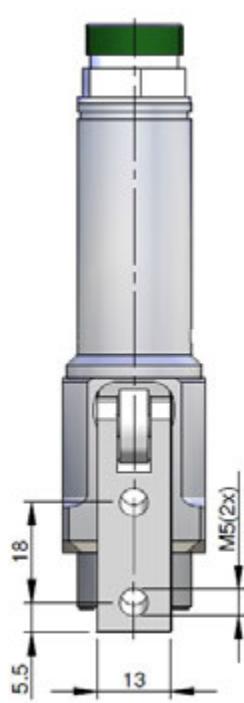
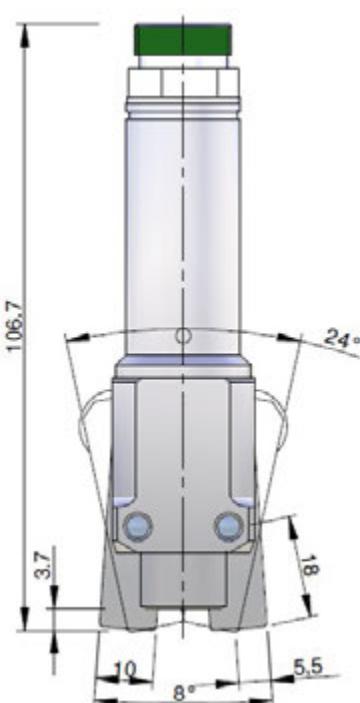
CA.PAC20.16SP/SPN

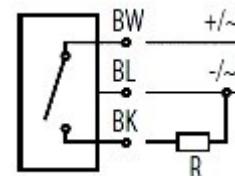
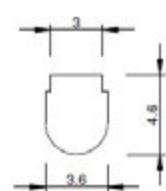
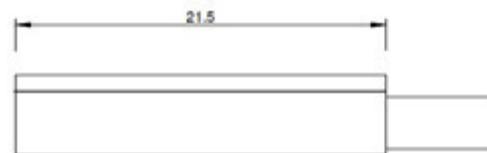
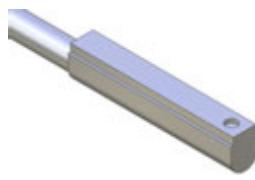


CA.09 PAC

. Dimensions

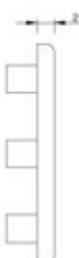
. Dimensioni

CA.PAC20.16K

CA.PAC20.16E

CA.PAC20.16W/WN

CA.PAC20.16A


CA.09 PAC**. Sensor**

Article no.	Sensor	Weight
KT58PM8	3 wires REED PNP normally Open M8 plug connector	4 g
KT58NM8	3 wires REED NPN normally Open M8 plug connector	

Power supply	3÷30 Vac/dc
Switching current	0.2 A
Power rating (ohmic load)	6 W
Standard cable lenght	0.3 m

. Insert**. Gommino per Pinza**

	VITON
UV ageing, weather -resistance <i>UV resistenza all'usura nel tempo</i>	😊
Low temperature limit <i>Limite di bassa temperatura</i>	-10°C
High temperature limit (continuous) <i>Limite di alta temperatura (continua)</i>	180°C
High temperature limit (< 30 sec.) <i>Limite di alta temperatura (< 30 sec.)</i>	210°C
Leaving few marks <i>Rimanenza di segni</i>	😊

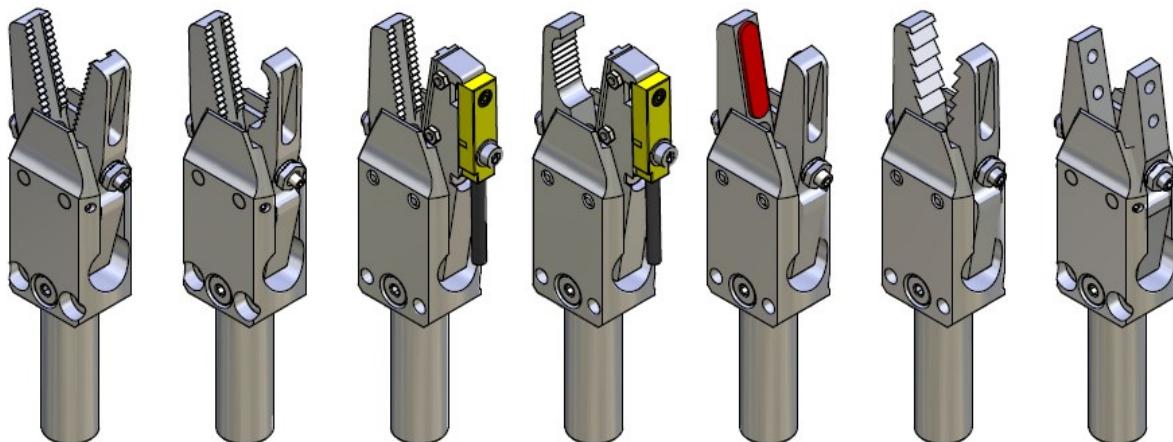
Article no.	Colour	Weight
PAC.20.16P.03.V	VITON	Green 4 g

CA.09 GTS

. Sprue grippers

14

. Pinza Materozza



Remarks / Osservazioni:

Active principle: single active

Azioneamento a semplice effetto con apertura a molla

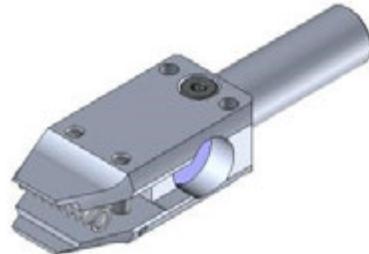
Working pressure: 6 bar clean and dry air

Pressione lavorante: 6 bar aria pulita e asciutta

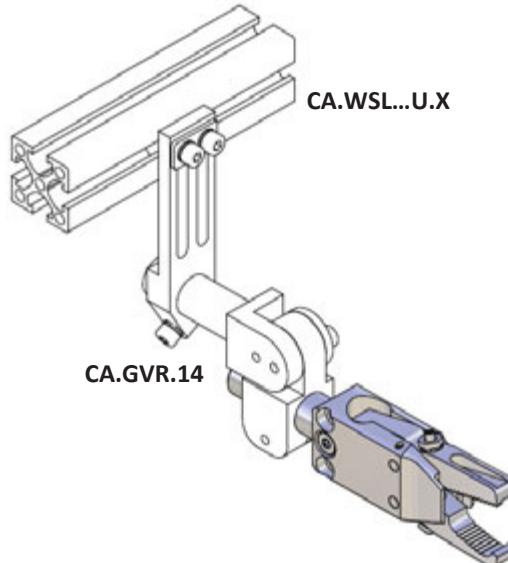
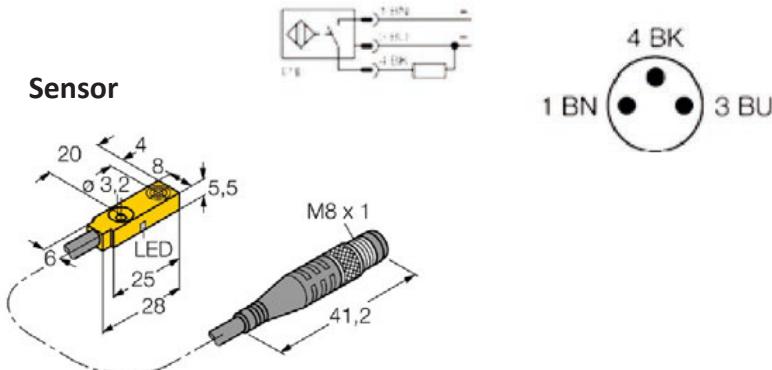
Jaws in zinc-plated Steel
Chele in acciaio zincato

Article no.	Sensor	Closing force (at 6 bar)	Weight
CA.GTS.1003.1212		45 N	115 g
CA.GTS.1003.1214			110 g
CA.GTS.1003.1717			115 g
CA.GTS.1003.1919			112 g
CA.GTS.1003.2929			110 g
CA.GTS.1003.1215	GRZ.20.SC.PNP		120 g
CA.GTS.1003.125N	GRZ.20.SC.NPN		116 g
CA.GTS.1003.1415	GRZ.20.SC.PNP		
CA.GTS.1003.145N	GRZ.20.SC.NPN		
CA.GTS.1003.1915	GRZ.20.SC.PNP		96 g
CA.GTS.1003.195N	GRZ.20.SC.NPN		

Article no.	Weight
GTS.03.G18	52 g
GTS.04.G18	95 g



Application example / Esempio applicativo



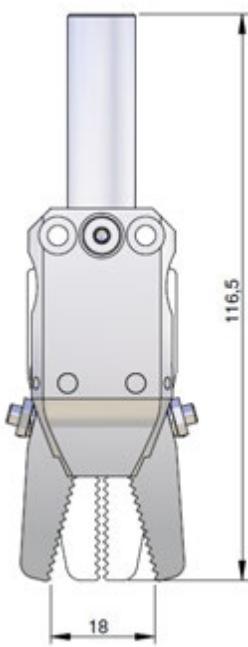
CA.09 GTS

. Dimensions

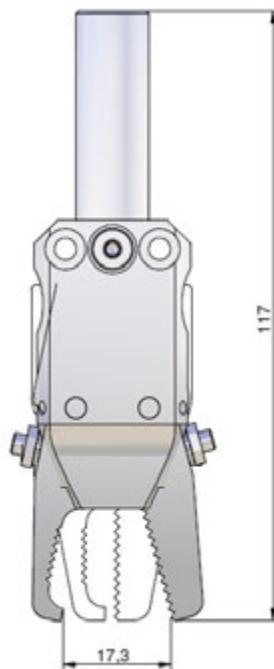
14

. Dimensioni

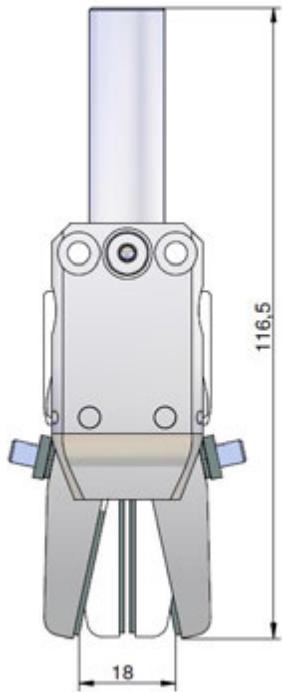
CA.GTS.1003.1212



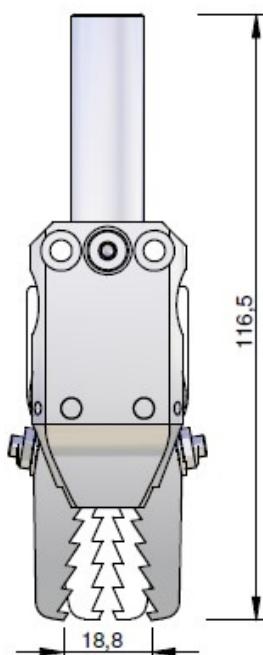
CA.GTS.1003.1214



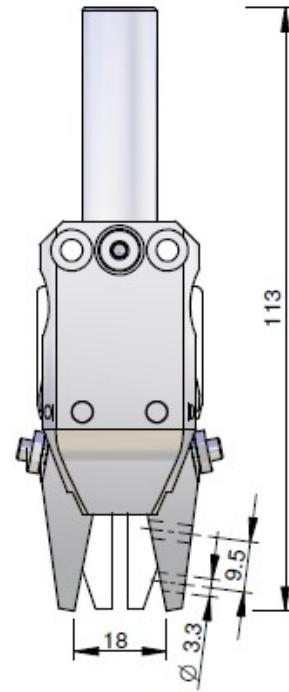
CA.GTS.1003.1717



CA.GTS.1003.1919



CA.GTS.1003.2929

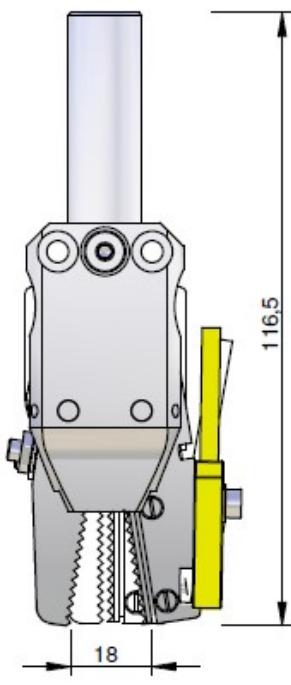
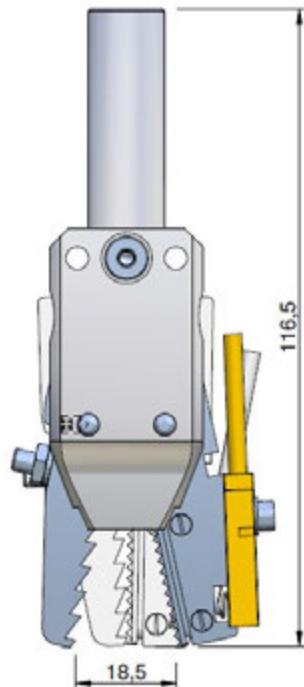
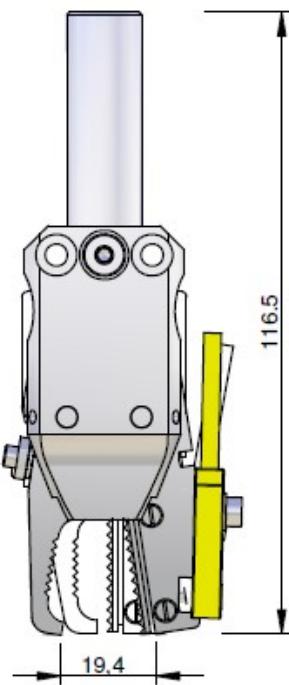


CA.09 GTS

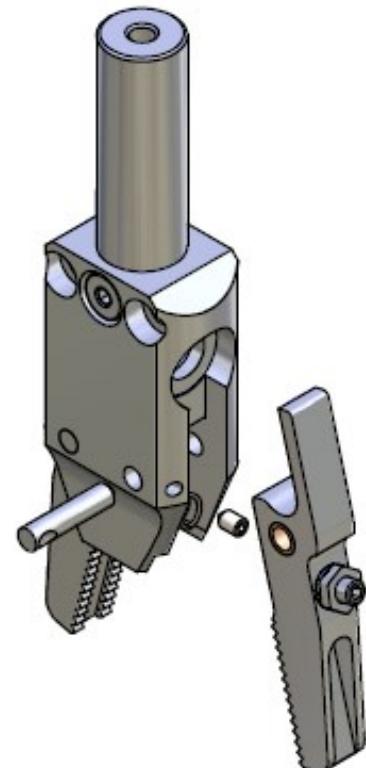
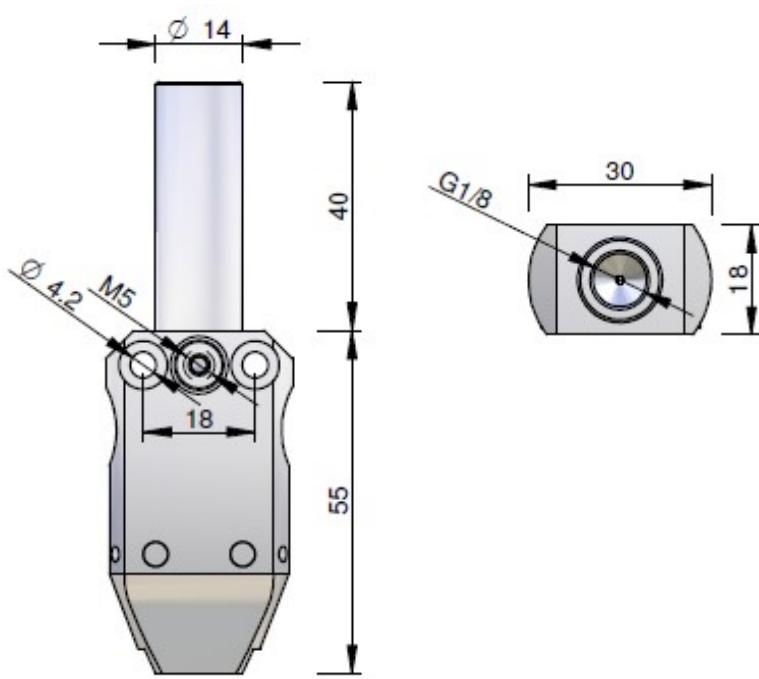
. Dimensions

14

. Dimensioni

CA.GTS.1003.1215/125N

CA.GTS.1003.1915/195N

CA.GTS.1003.1415/145N

GTS.03.G18

Application example / Esempio applicativo



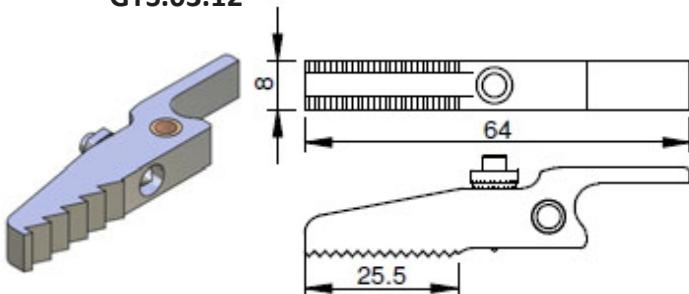
CA.09 GTS

. Jaws for Gripper GTS

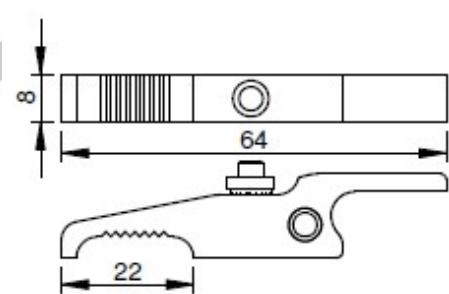
14

. Dito per pinze GTS

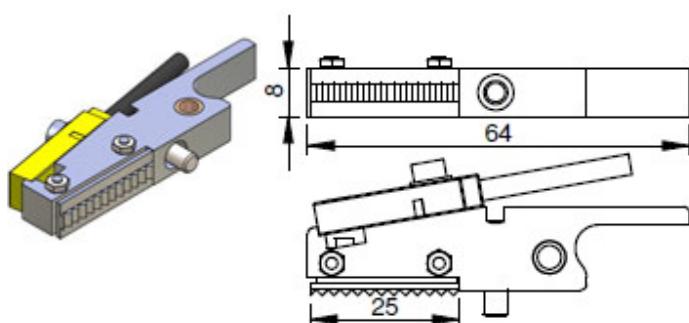
GTS.03.12



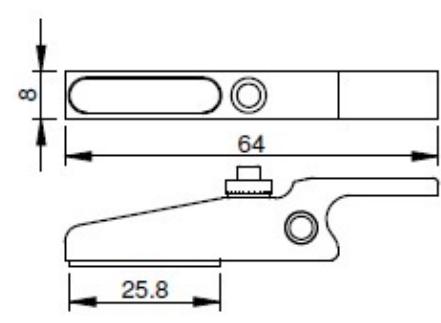
GTS.03.14



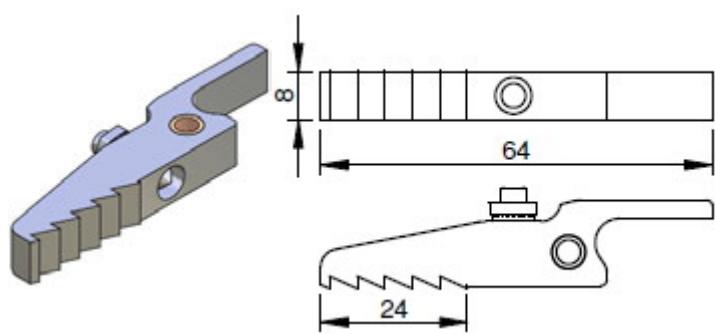
GTS.03.15/15.N



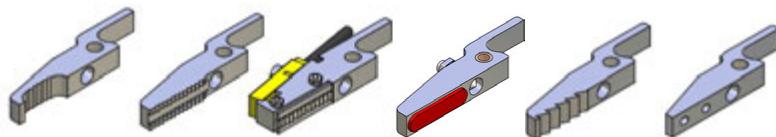
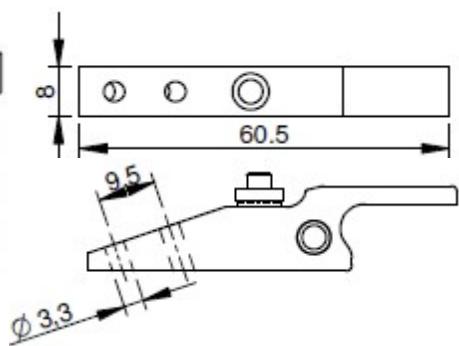
GTS.03.17



GTS.03.19



GTS.03.29



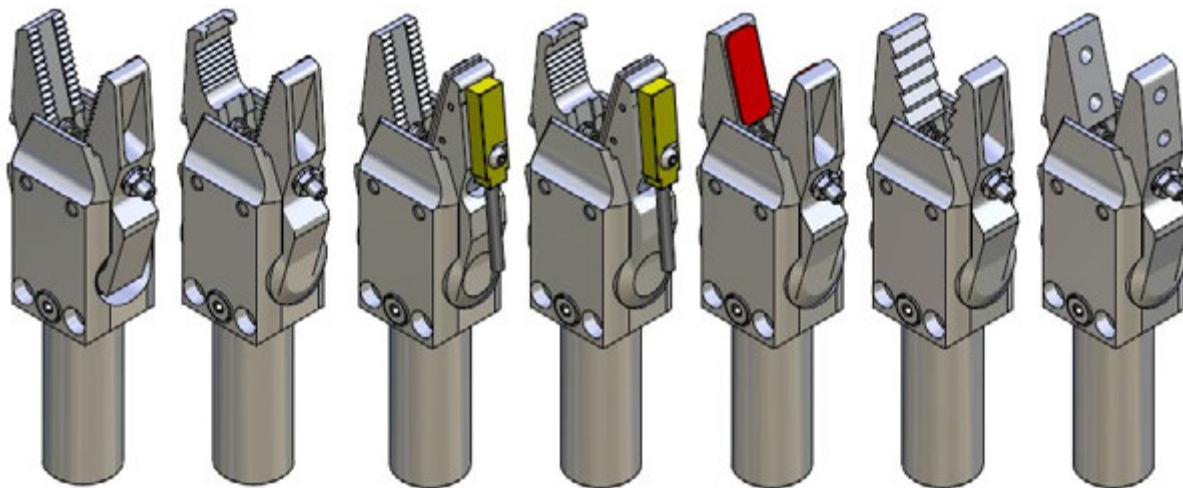
Article no.	Weight
GTS.03.12	27 g
GTS.03.14	22 g
GTS.03.15	35 g
GTS.03.15.N	
GTS.03.17	27 g
GTS.03.19	26 g
GTS.03.29	25 g

CA.09 GTS

. Sprue grippers

20

. Pinza Materozza



Working pressure: 6 bar clean and dry air
Pressione lavorante: 6 bar aria pulita e asciutta

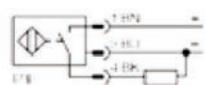
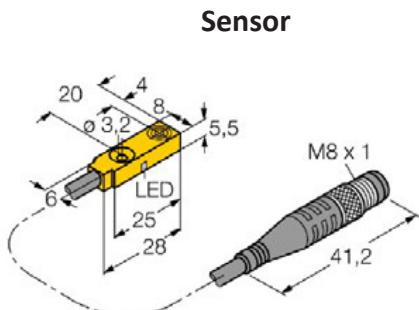
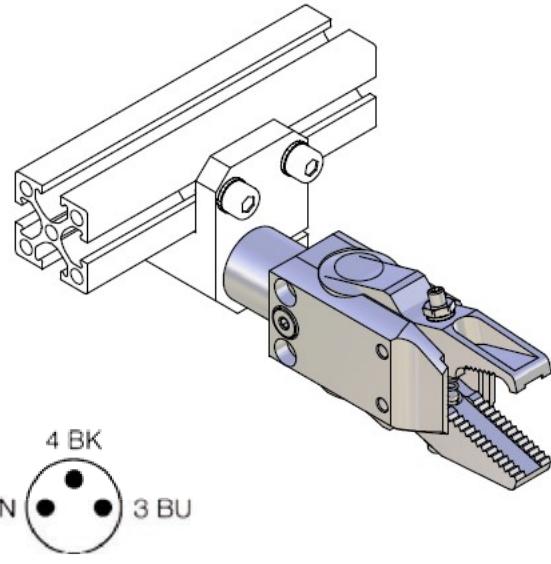
Jaws in zinc-plated Steel
Chele in acciaio zincato

Remarks / Osservazioni:

Work principle: single acting
Azionamento a semplice effetto con apertura a molla

Article no.	Sensor	Closing force (at 6 bar)	Weight
CA.GTS.1004.1212		90 N	151 g
CA.GTS.1004.1214			144 g
CA.GTS.1004.1717			151 g
CA.GTS.1004.1919			146 g
CA.GTS.1004.2929			144 g
CA.GTS.1004.1215	GRZ.20.SC.PNP		160 g
CA.GTS.1004.125.N	GRZ.20.SC.NPN		
CA.GTS.1004.1415	GRZ.20.SC.PNP		120 g
CA.GTS.1004.145.N	GRZ.20.SC.NPN		

Application example / Esempio applicativo



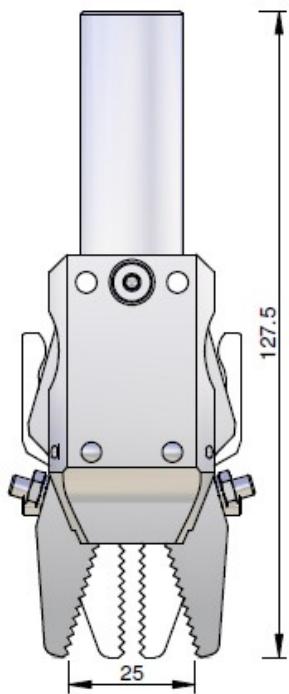
CA.09 GTS

20

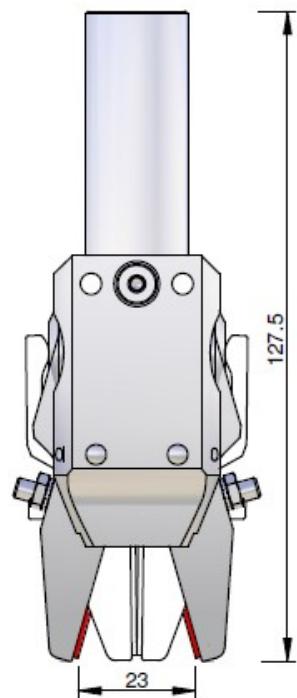
. Dimensions

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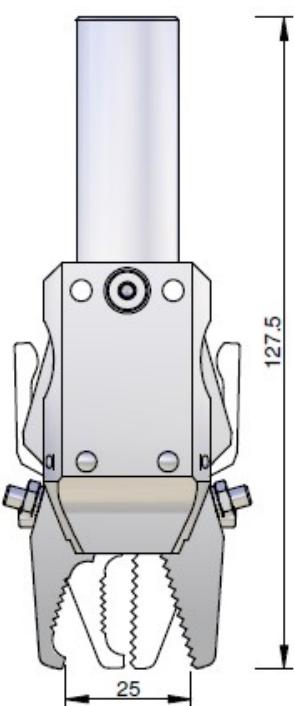
CA.GTS.1004.1212



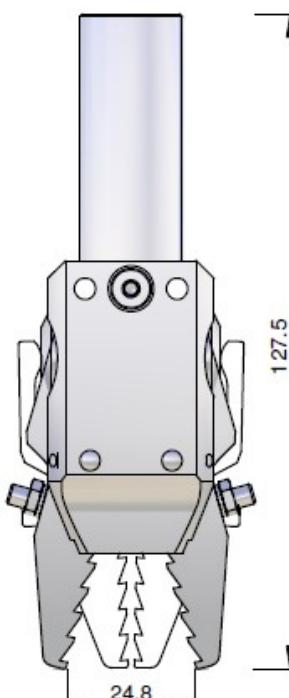
CA.GTS.1004.1717



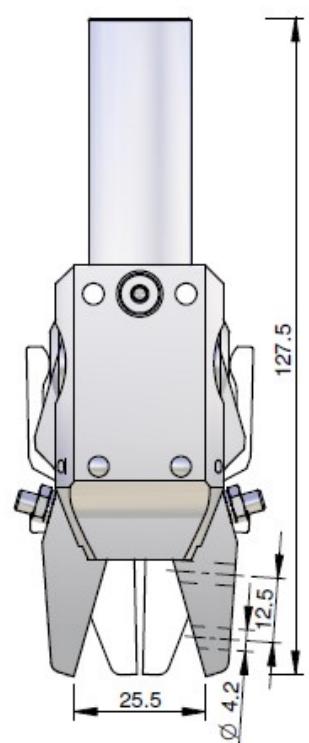
CA.GTS.1004.1214



CA.GTS.1004.1919



CA.GTS.1004.2929

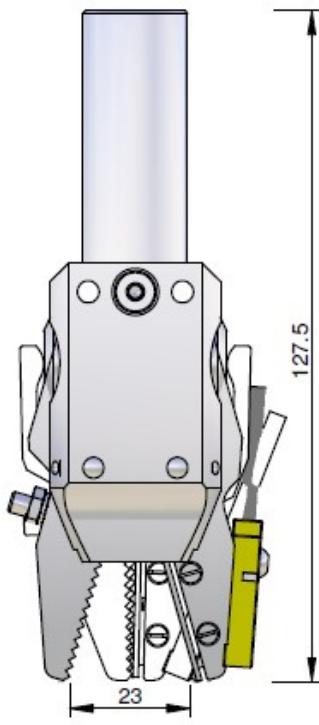
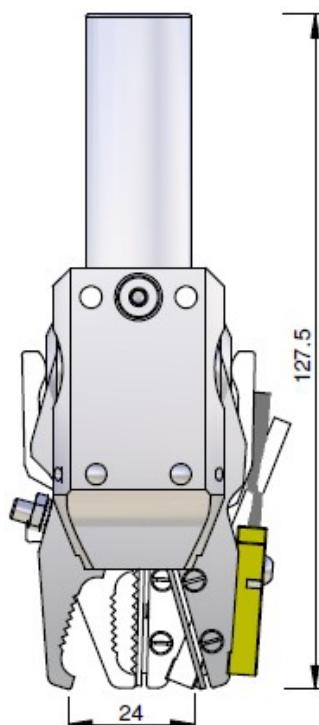
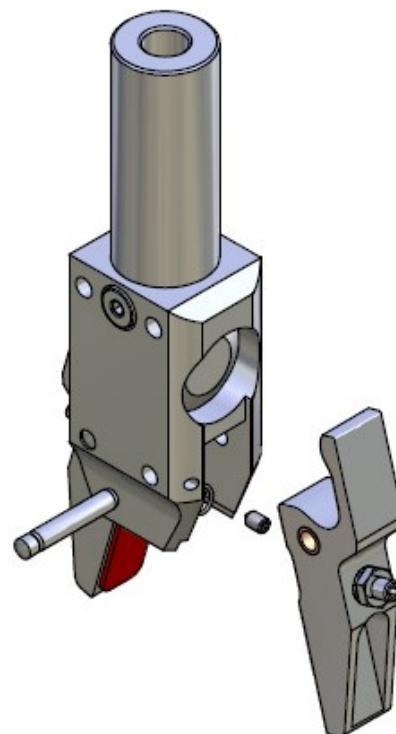
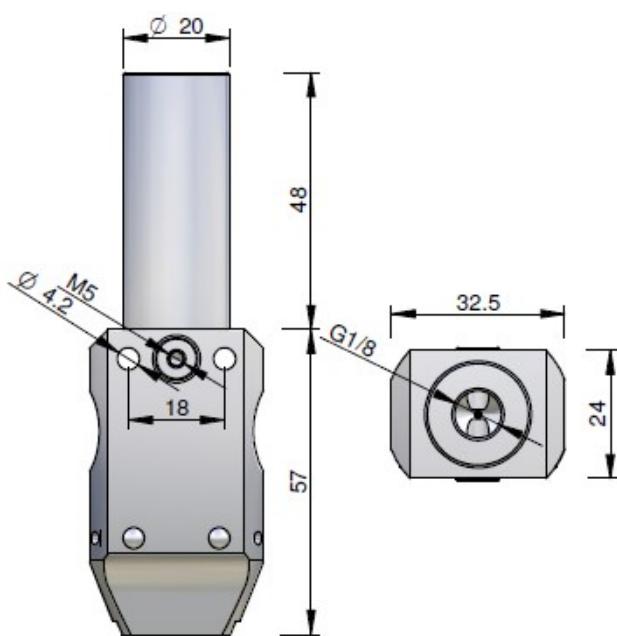


CA.09 GTS

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. Dimensioni

CA.GTS.1004.1215/125N

CA.GTS.1004.1415/145N

Application example / Esempio applicativo
GTS.04.G18


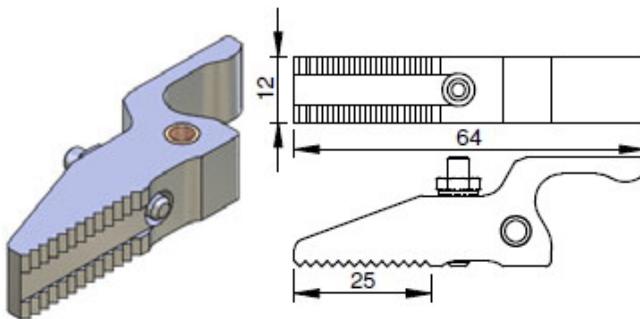
CA.09 GTS

. Jaws for Gripper GTS

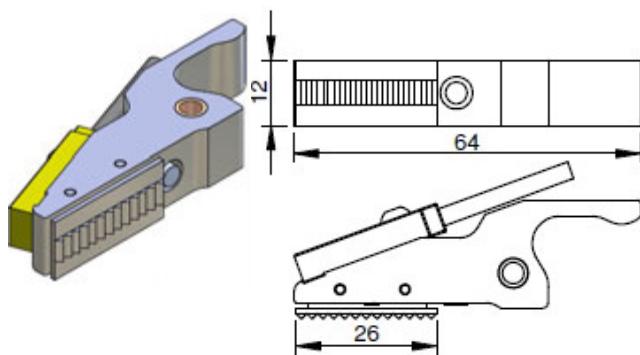
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. Dito per pinze GTS

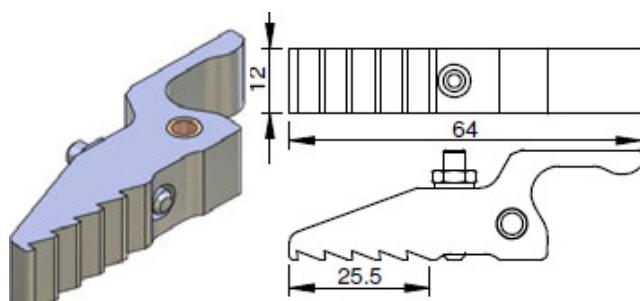
GTS.04.12



GTS.04.15/15.N

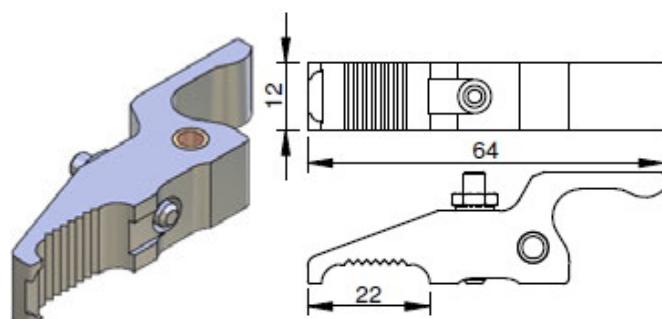


GTS.04.19

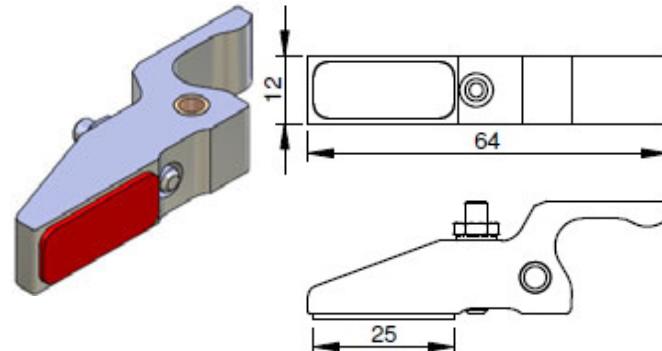


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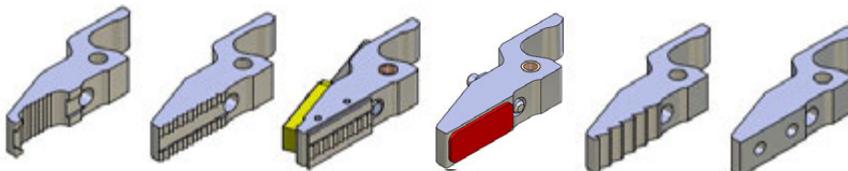
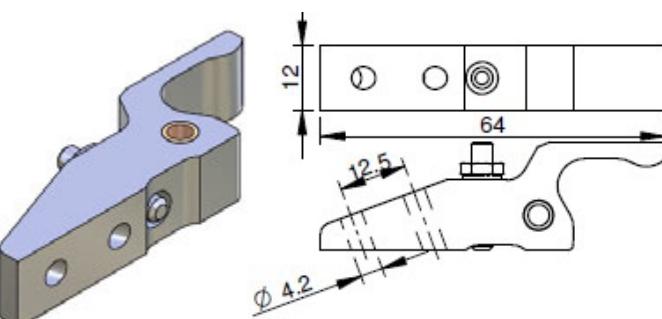
GTS.04.14



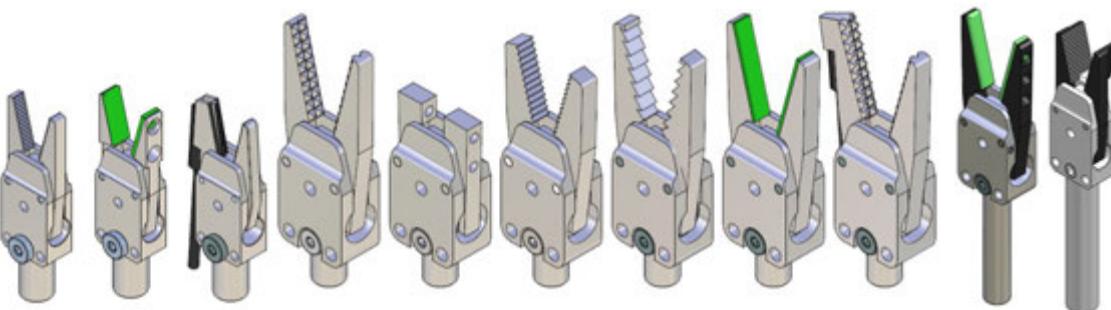
GTS.04.17



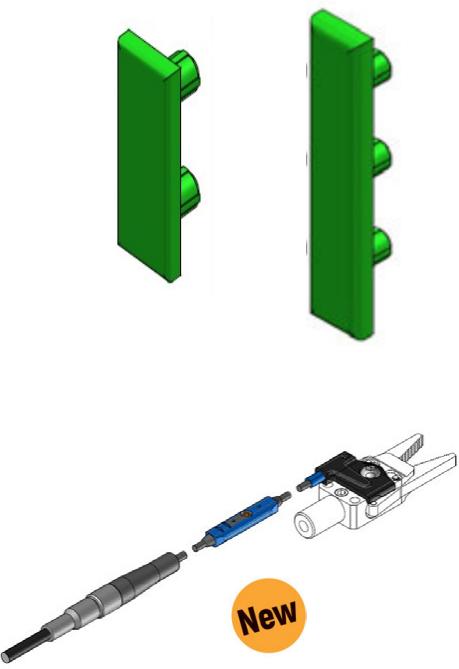
GTS.04.29



Article no.	Weight
GTS.04.12	31 g
GTS.04.14	26 g
GTS.04.15	39 g
GTS.04.15.N	
GTS.04.17	31 g
GTS.04.19	30 g
GTS.04.29	29 g

CA.09 GZA.10
Sprue grippers
. Pinza Materozza


Article no.	Sensor	Closing force (at 6 bar)	Weight
CA.GZA.10.08		19 N	
CA.GZA.10.08.18			
CA.GZA.10.08.19			
CA.GZA.10.08.AH			
CA.GZA.10.08.AHG			
CA.GZA.10.08.AHL			
CA.GZA.10.08.AHT			
CA.GZA.10.08.ATG			
CA.GZA.10.08.G			
CA.GZA.10.08.LL			22 g
CA.GZA.10.08.M50		30 N	36 g
CA.GZA.10.12			34 g
CA.GZA.10.12.14			50 g
CA.GZA.10.12.18			
CA.GZA.10.12.19			
CA.GZA.10.12.AH			
CA.GZA.10.12.AHV			
CA.GZA.10.12.AHG			
CA.GZA.10.12.AHL			
CA.GZA.10.12.AHT			
CA.GZA.10.12.ATG		40 g	
CA.GZA.10.12.C			36 g
CA.GZA.10.12.G			34 g
CA.GZA.10.12.G50			
CA.GZA.10.12.L			
CA.GZA.10.12.LL			
CA.GZA.10.12.M			
CA.GZA.10.12.M50			
CA.GZA.10.12.MC			
CA.GZA.10.12.MF			
CA.GZA.10.12.MS	MMD.IL5AP3AVF80	50 g	
CA.GZA.10.12.MSN	MMD.IL5AN3AVF80		
CA.GZA.10.12.S	MMD.IL5AP3AVF80		
CA.GZA.10.12.SN	MMD.IL5AN3AVF80		
CA.GZA.10.12.S4	MMD.IL5AP3AVF80		
CA.GZA.10.12.S4N	MMD.IL5AN3AVF80		
CA.GZA.10.12.S9	MMD.IL5AP3AVF80		
CA.GZA.10.12.S9N	MMD.IL5AN3AVF80		
CA.GZA.10.12.SG	MMD.IL5AP3AVF80		
CA.GZA.10.12.SGN	MMD.IL5AN3AVF80		62 g



Material:
Jaws in hardcoated Aluminium
Body in anodized Aluminium

Remarks :
.Work principle: single acting
.2 different fastening possibilities:
.Clamp- Ø 10 mm on shaft
.Through-Thread in the gripper body
.Working pressure: 6 bar clean and dry air

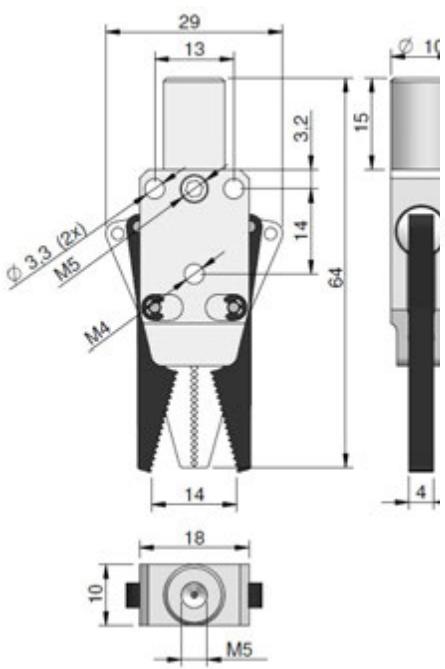
Osservazioni :
.Azioneamento a semplice effetto con apertura a molla
.2 differenti possibilità di fissaggio :
.Morsetto - Ø 10 mm sull'asta
.Attraverso il filetto nel corpo della pinza
.Pressione lavorante:
6 bar aria pulita e asciutta

CA.09 GZA.10

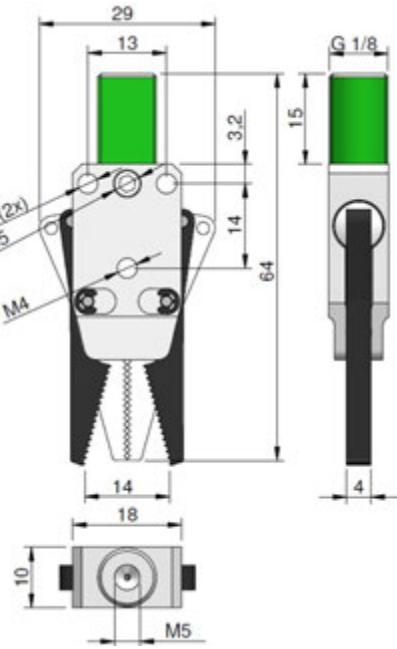
. Dimensions

. Dimensioni

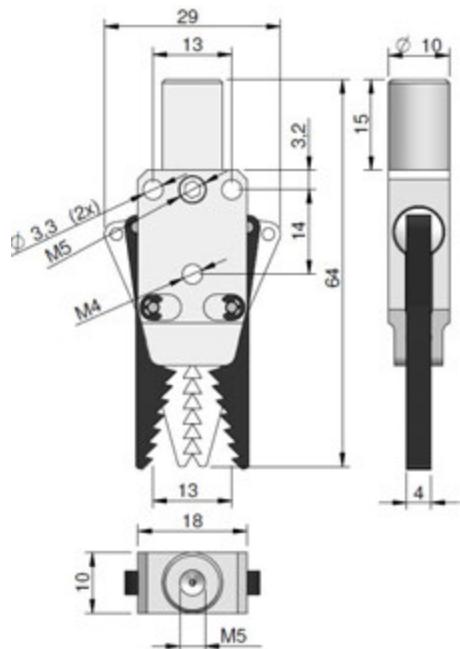
CA.GZA.10.08



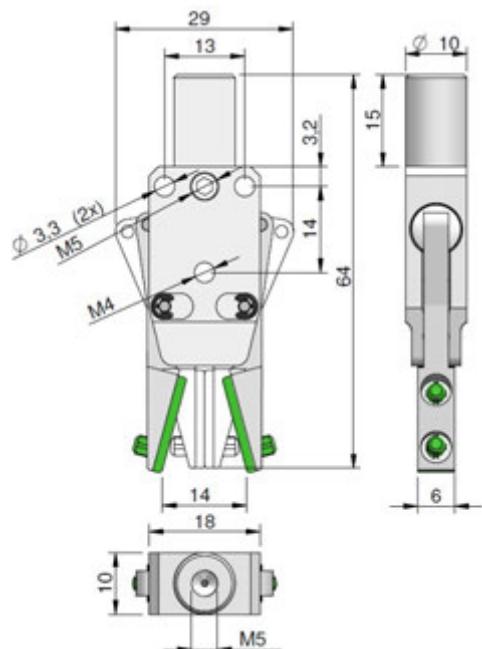
CA.GZA.10.08.18



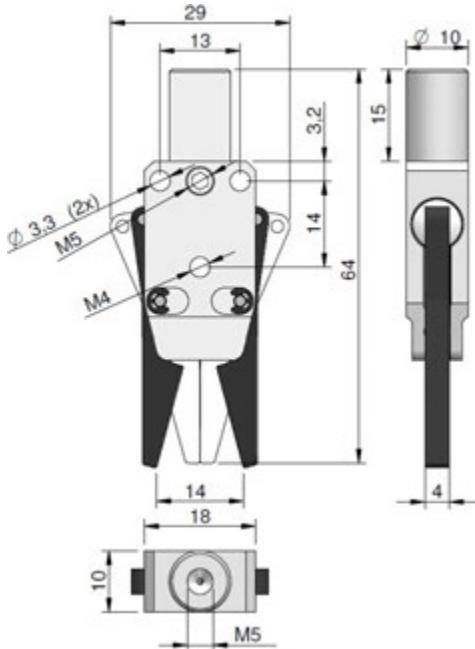
CA.GZA.10.08.19



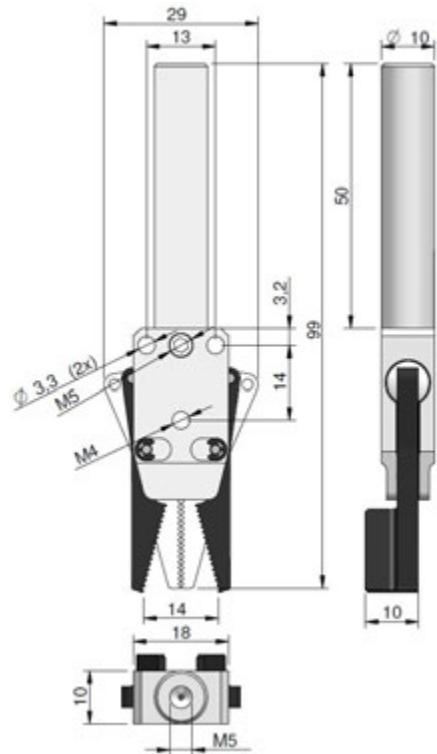
CA.GZA.10.08.G



CA.GZA.10.08.LL

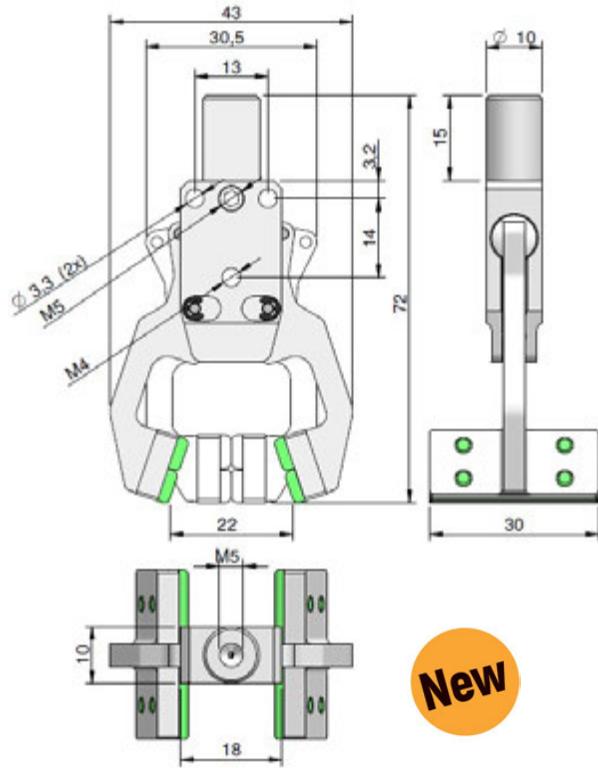


CA.GZA.10.08.M50

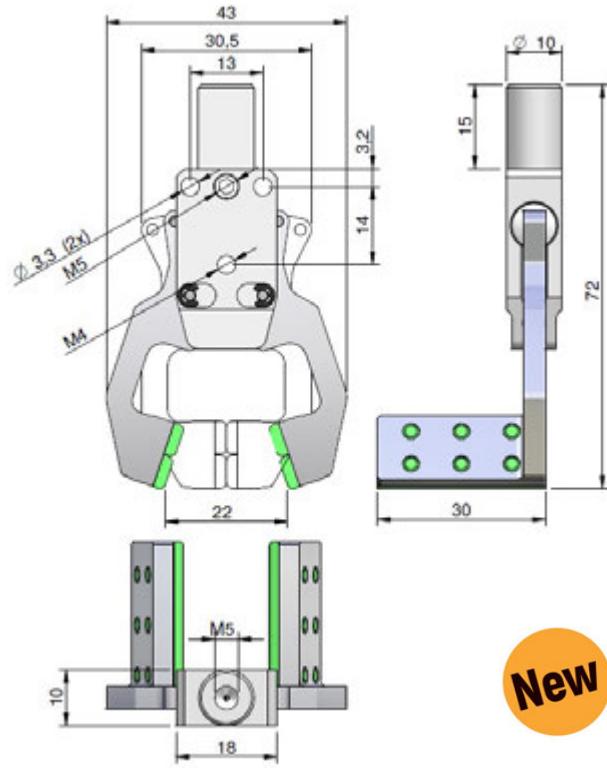


CA.09 GZA.10

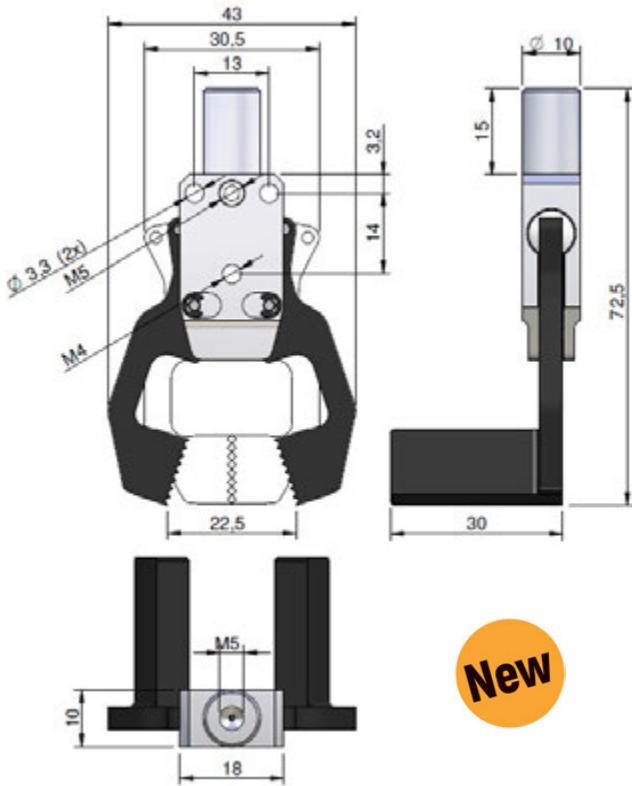
. Dimensions

CA.GZA.10.08.ATG


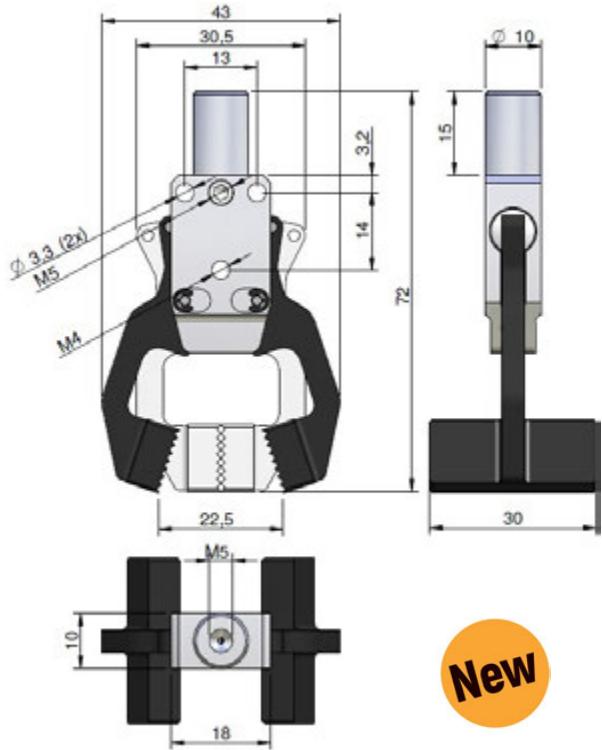
New

CA.GZA.10.08.AHG


New

CA.GZA.10.08.AHL


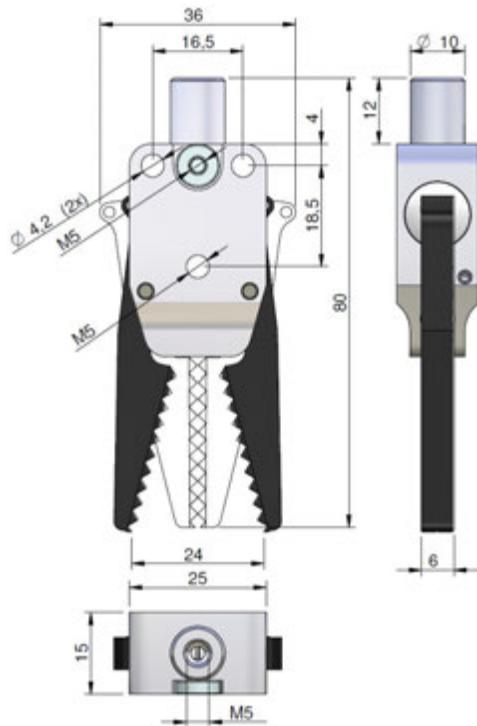
New

CA.GZA.10.08.AHT


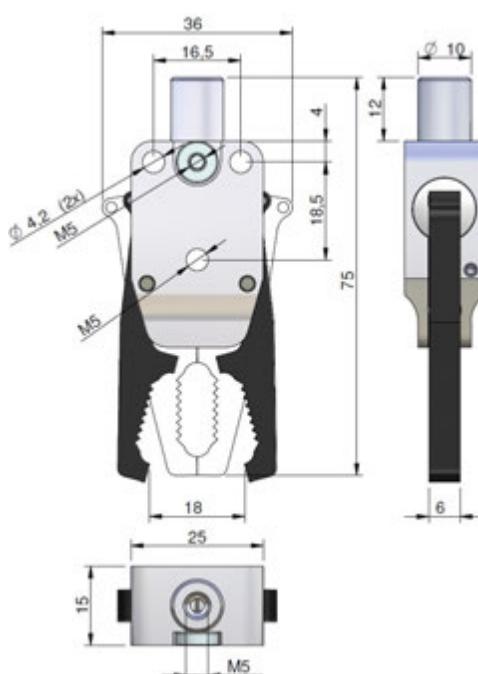
New

. Dimensions

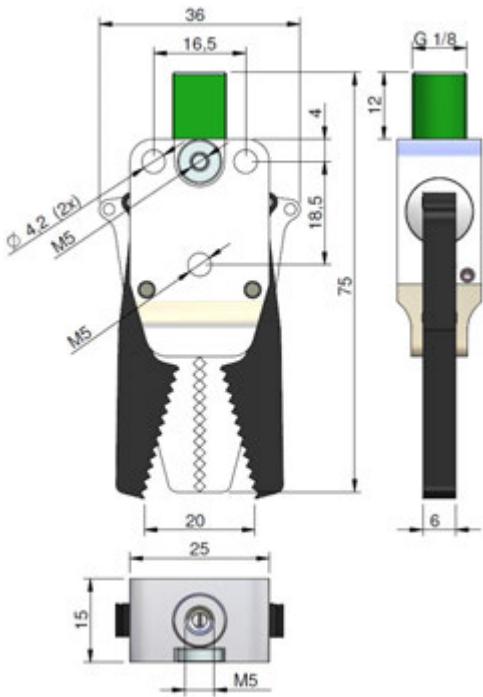
CA.GZA.10.12



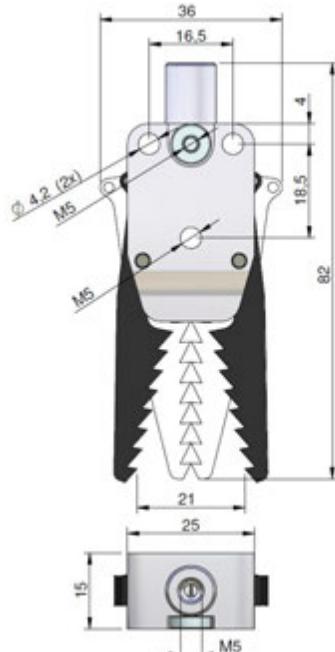
CA.GZA.10.12.14



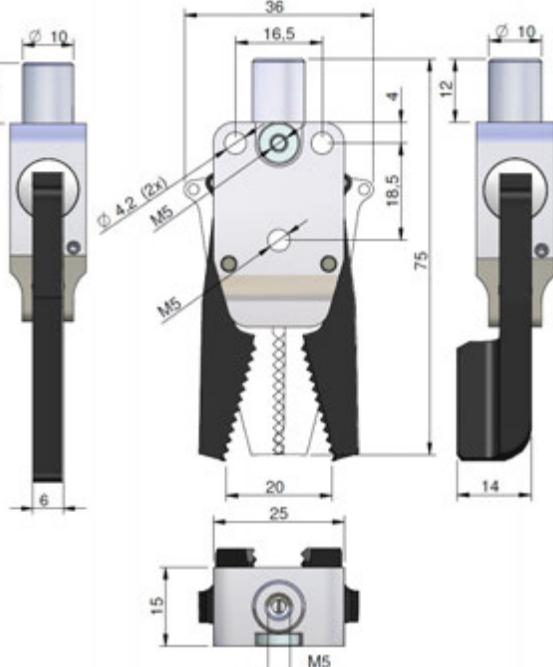
CA.GZA.10.12.18

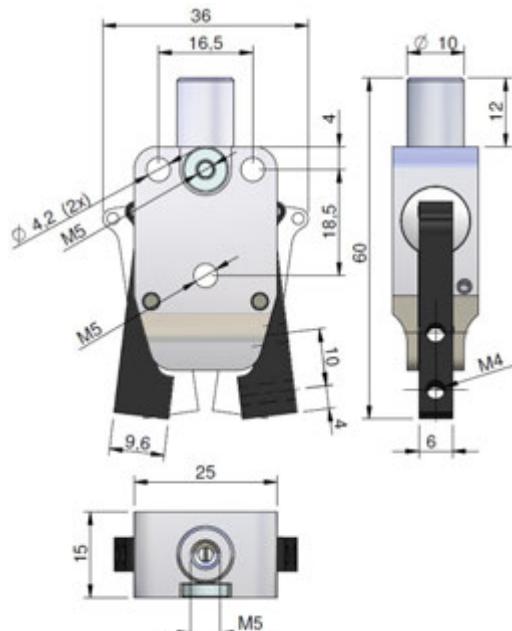
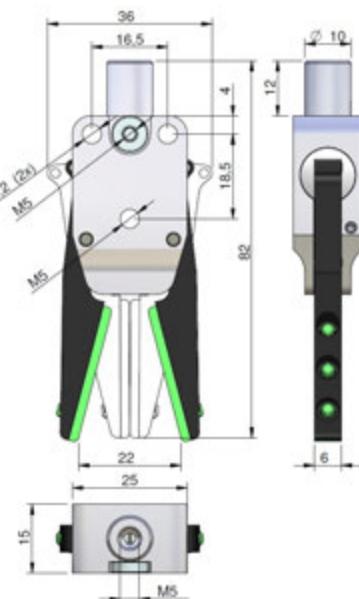
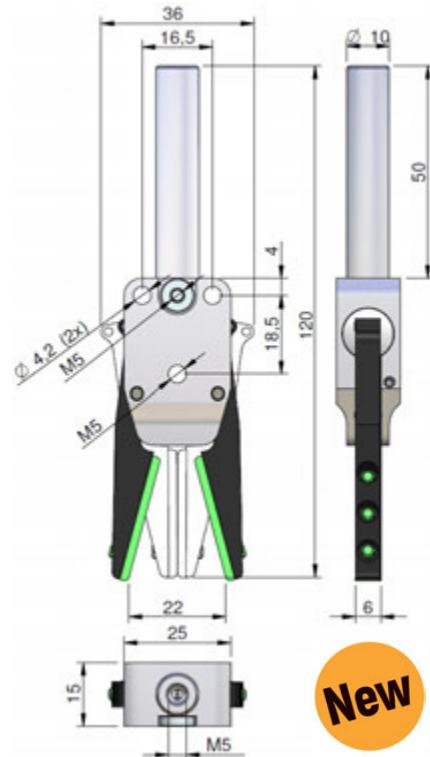
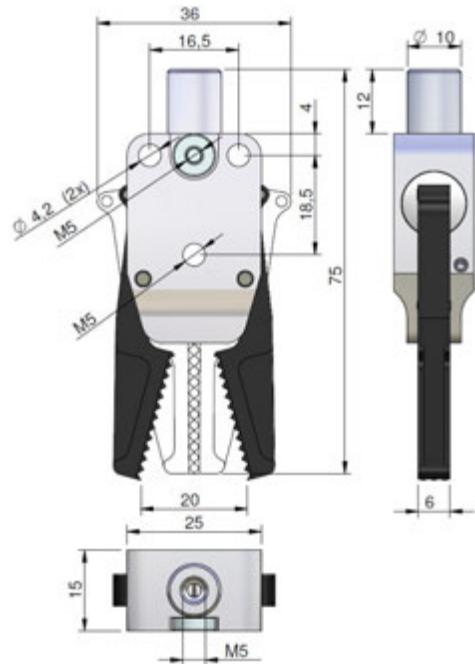
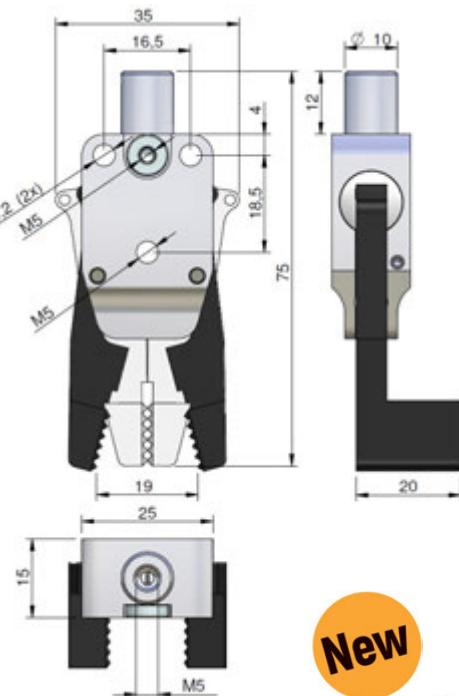
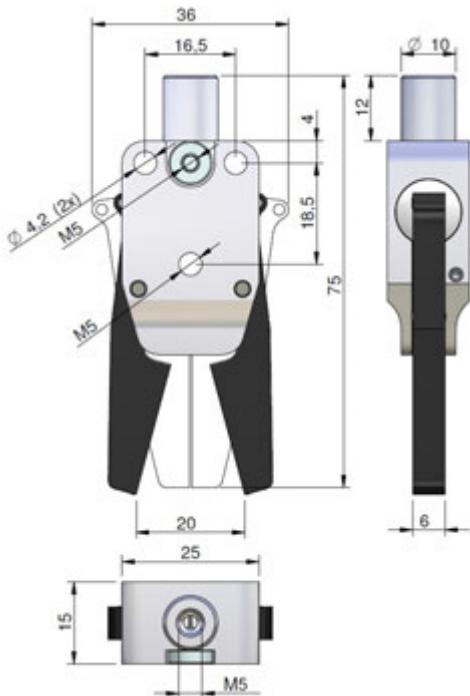


CA.GZA.10.12.19



CA.GZA.10.12.AH



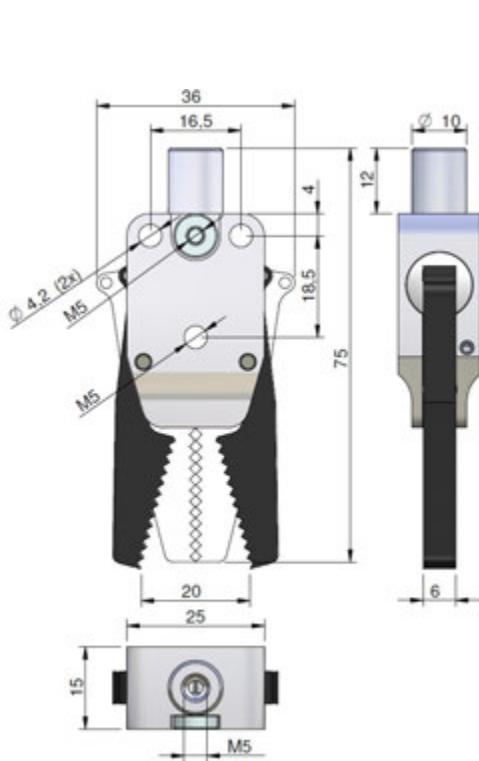
CA.09 GZA.10
. Dimensions
CA.GZA.10.12.C

CA.GZA.10.12.G

CA.GZA.10.12.G50

CA.GZA.10.12.L

CA.GZA.10.12.L90

CA.GZA.10.12.LL


CA.09 GZA.10

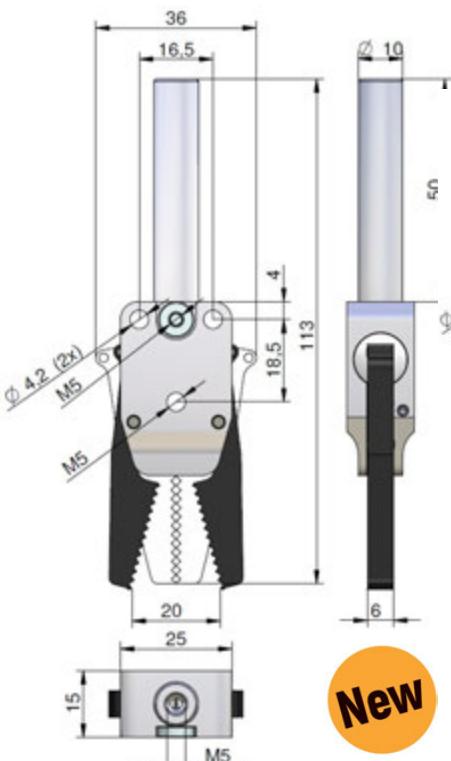
. Dimensions

. Dimensioni

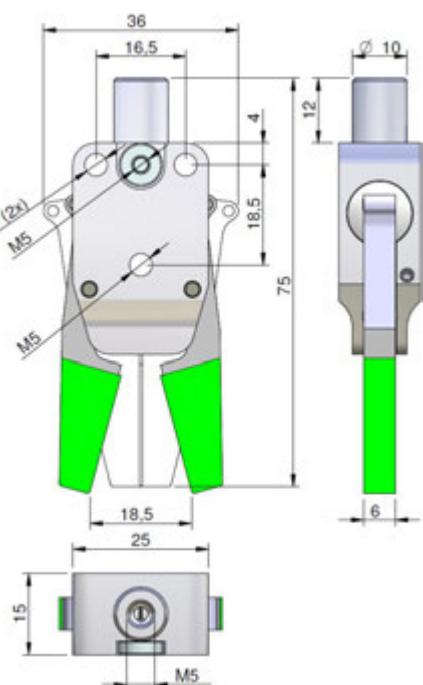
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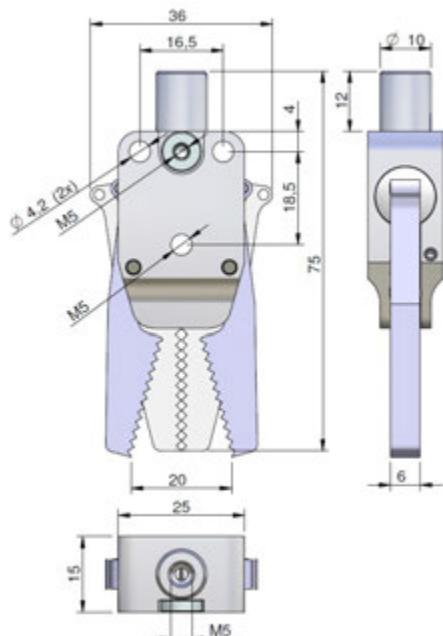
CA.GZA.10.12.M50



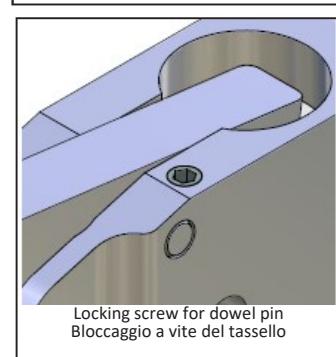
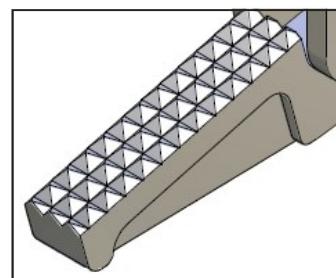
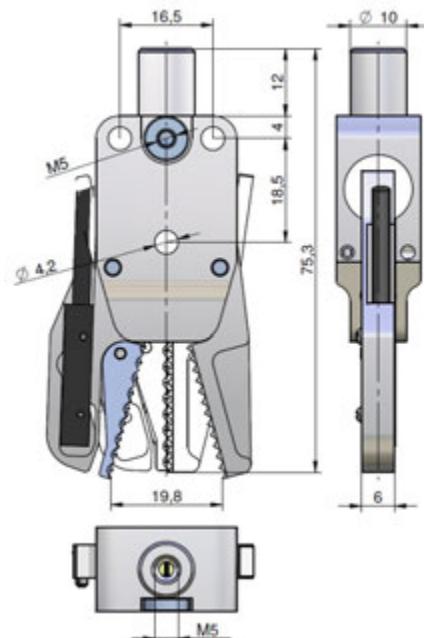
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CA.GZA.10.12.MF



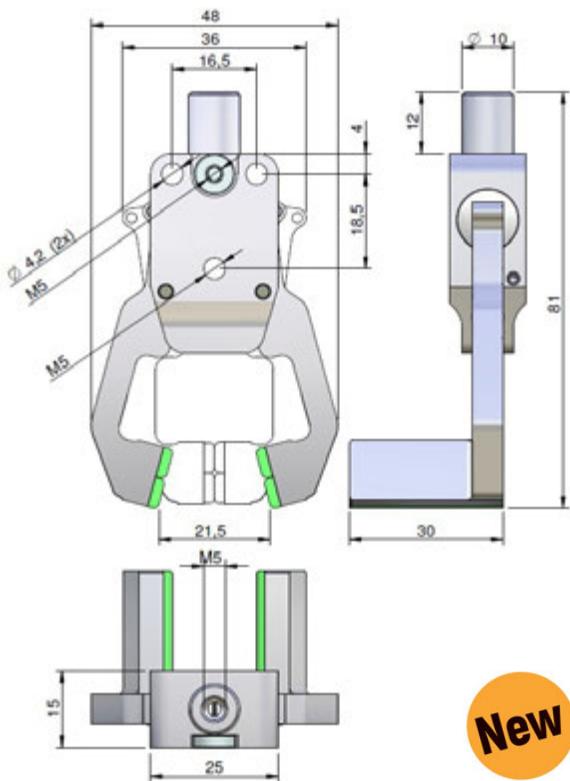
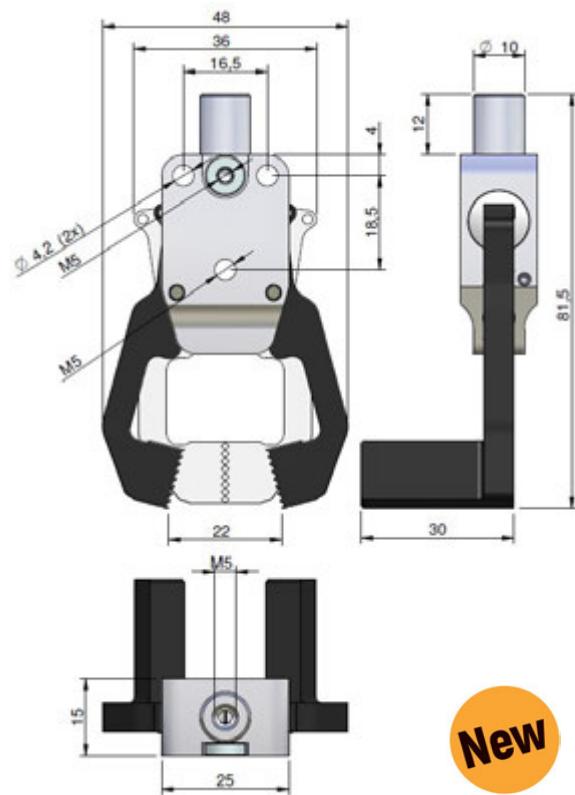
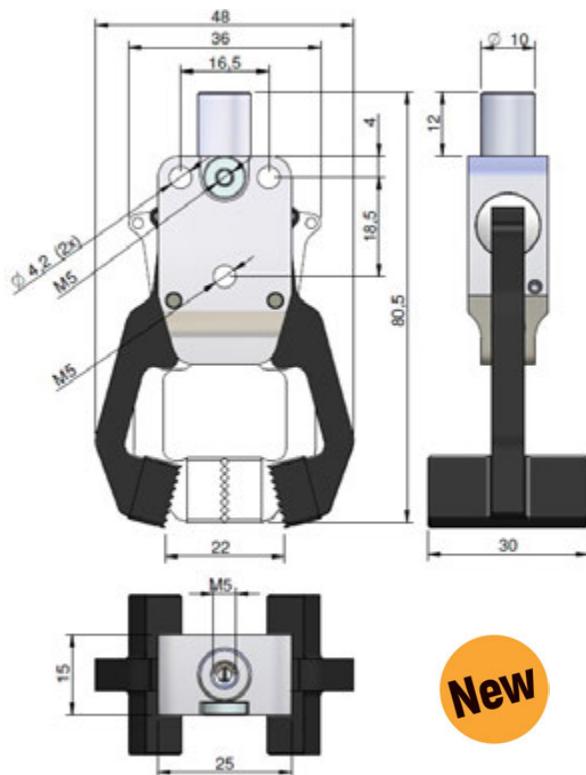
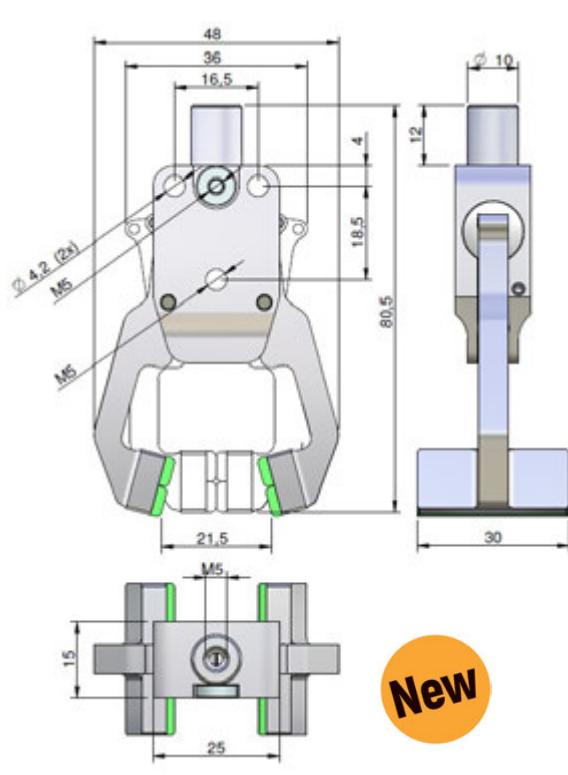
CA.GZA.10.12.MS/MSN



CA.09 GZA.10

. Dimensions

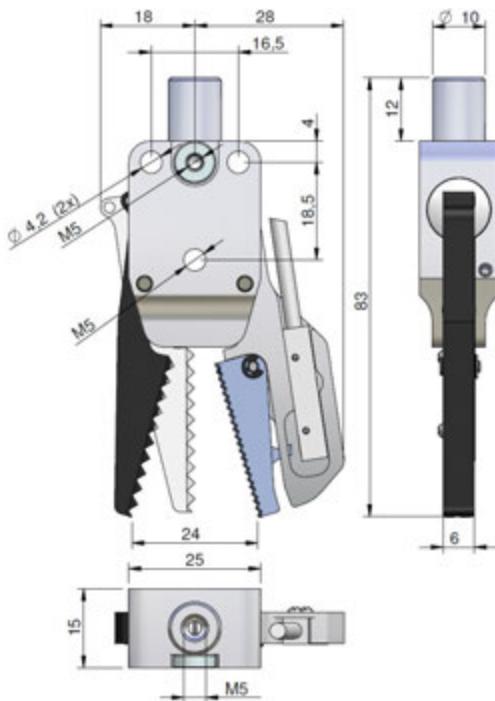
. Dimensioni

CA.GZA.10.12.AHG

CA.GZA.10.12.AHL

CA.GZA.10.12.AHT

CA.GZA.10.12.ATG


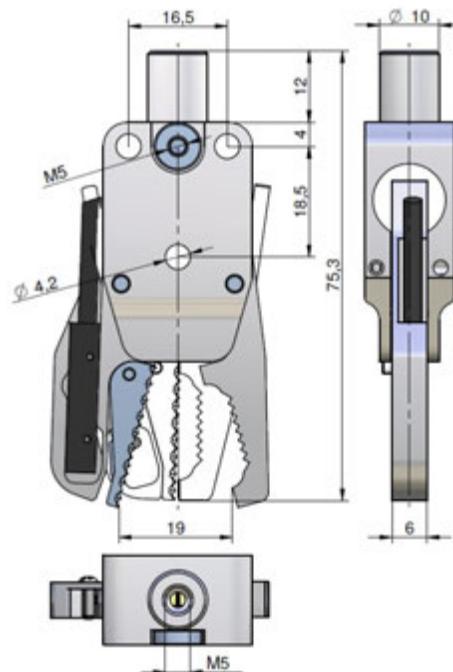
CA.09 GZA.10

. Dimensions

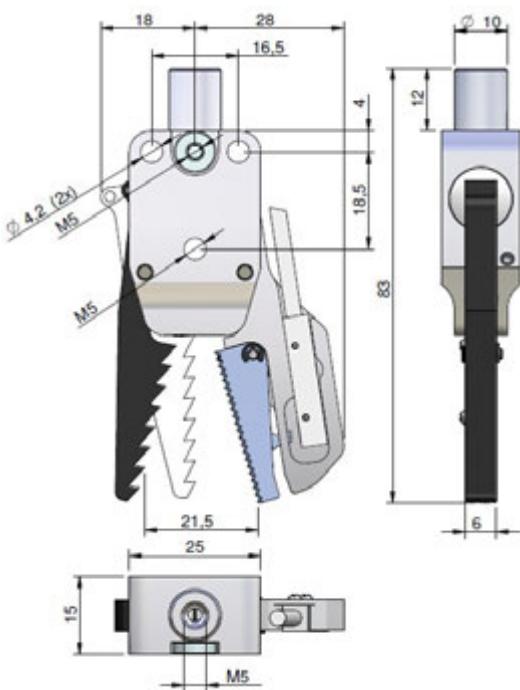
CA.GZA.10.12.S/SN



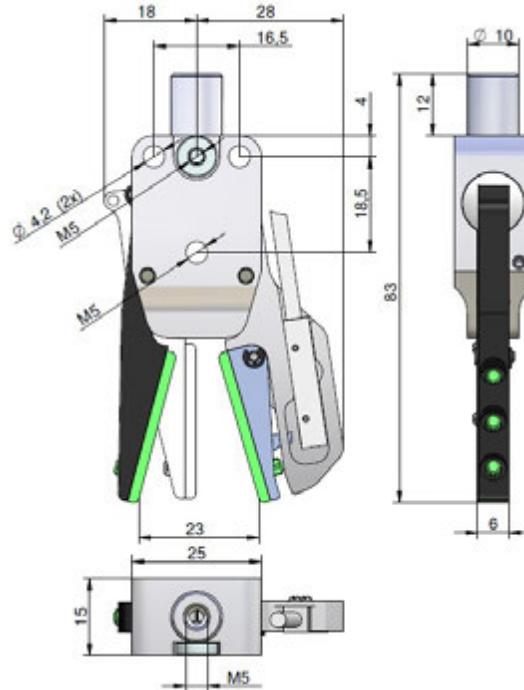
CA.GZA.10.12.S4/S4N



CA.GZA.10.12.S9/S9N



CA.GZA.10.12.SG/SGN



CA.09 GZA.10

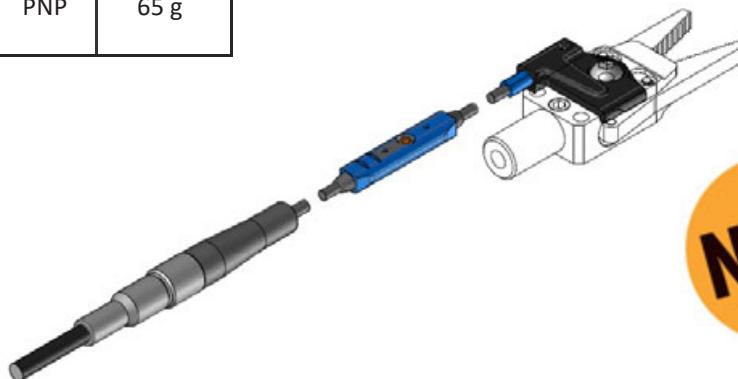
. Dimensions

. Maße



Article no.	Output	
CA.SCP.1008	PNP	65 g
CA.SCP.1012		

Application example / Anwendungsbeispiel



CA.09 GRZ.10.08

Remarks / Osservazioni:

Work principle: single acting

Azionamento a semplice effetto con apertura a molla

2 different fastening possibilities / 2 differenti possibilità di fissaggio :

Clamp- Ø 10 mm on shaft / Morsetto - Ø 10 mm sull'asta

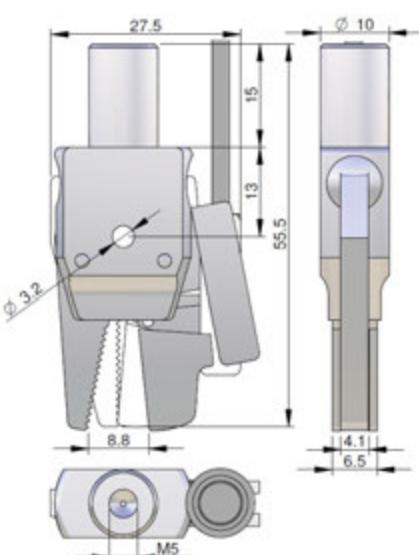
Through-Thread in the gripper body

Attraverso il filetto nel corpo della pinza

Working pressure: 6 bar clean and dry air

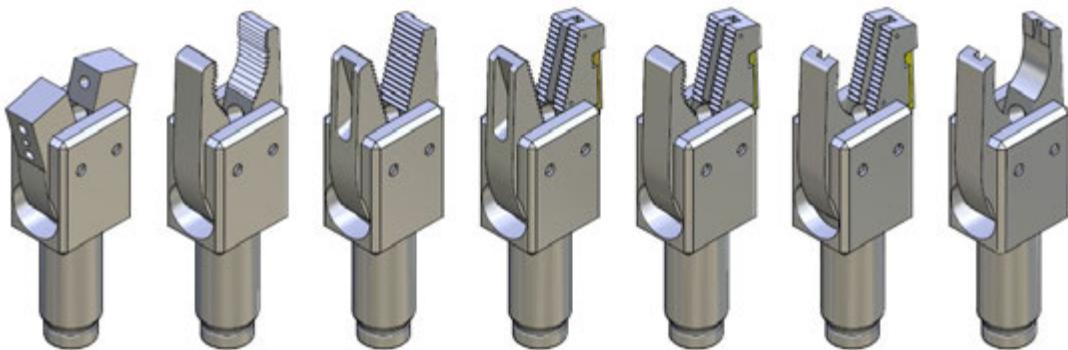
Pressione lavorante: 6 bar aria pulita e asciutta

CA.GRZ.10.08.S/SN



Article no.	Sensor	Closing force (at 6 bar)	Weight
CA.GRZ.10.08.S	KT58PM8		
CA.GRZ.10.08.S2F	KT58REQD	19 N	25 g
CA.GRZ.10.08.SN	KT58NM8		

Notes/Bemerkungen

CA.09 GRZ.20
. Sprue gripper

. Pinza Materozza
Remarks / Osservazioni :

Work principle: single acting
Azionamento a semplice effetto con apertura a molla

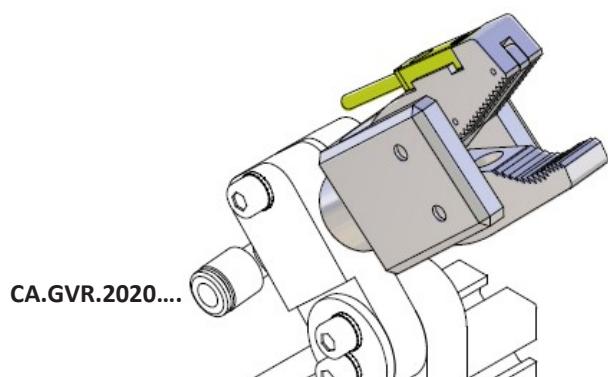
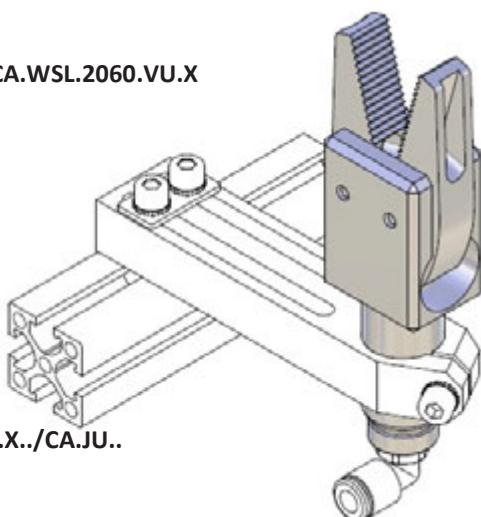
Working pressure: 6 bar clean and dry air
Pressione lavorante: 6 bar aria pulita e asciutta

Material / Material:

Jaws in hardcoated Aluminium
Chele in alluminio rivestito

Body made of anodized Aluminium
Corpo in alluminio anodizzato

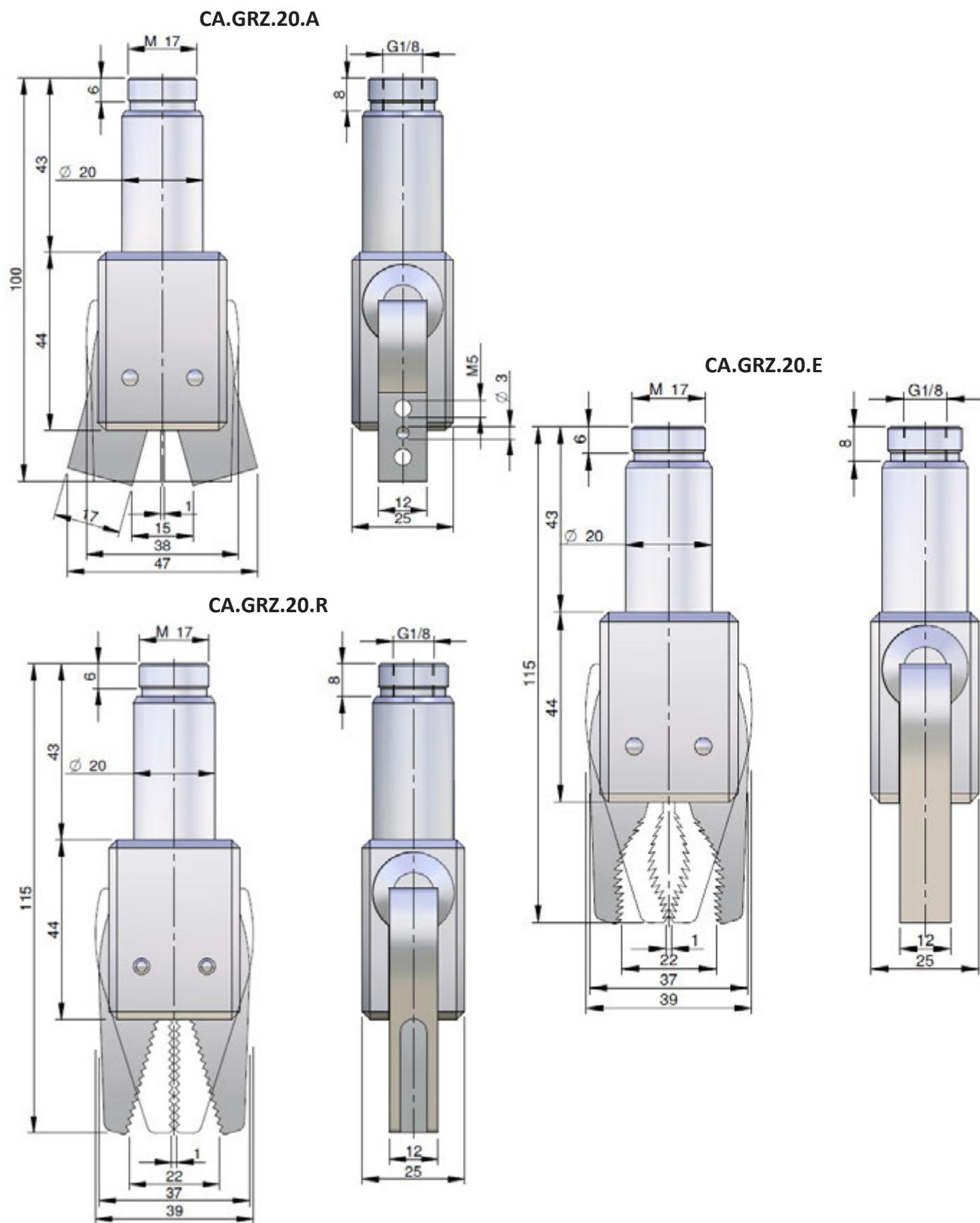
Article no.	Sensor	Closing force (at 6 bar)	Weight
CA.GRZ.20.A		90 N	114 g
CA.GRZ.20.E			85 g
CA.GRZ.20.LL			85 g
CA.GRZ.20.R			121 g
CA.GRZ.20.S	GRZ.20.SC.PNP		127 g
CA.GRZ.20.SN	GRZ.20.SC.NPN		107 g
CA.GRZ.20.W	GRZ.20.SC.PNP		110 g
CA.GRZ.20.WN	GRZ.20.SC.NPN		114 g
CA.GRZ.20.WL	GRZ.20.SC.PNP		110 g
CA.GRZ.20.WLN	GRZ.20.SC.NPN		

Application examples / Esempi applicativi
CA.X../CA.JU..

CA.X../CA.JU..
CA.KVB.X20

CA.09 GRZ.20

. Dimensions

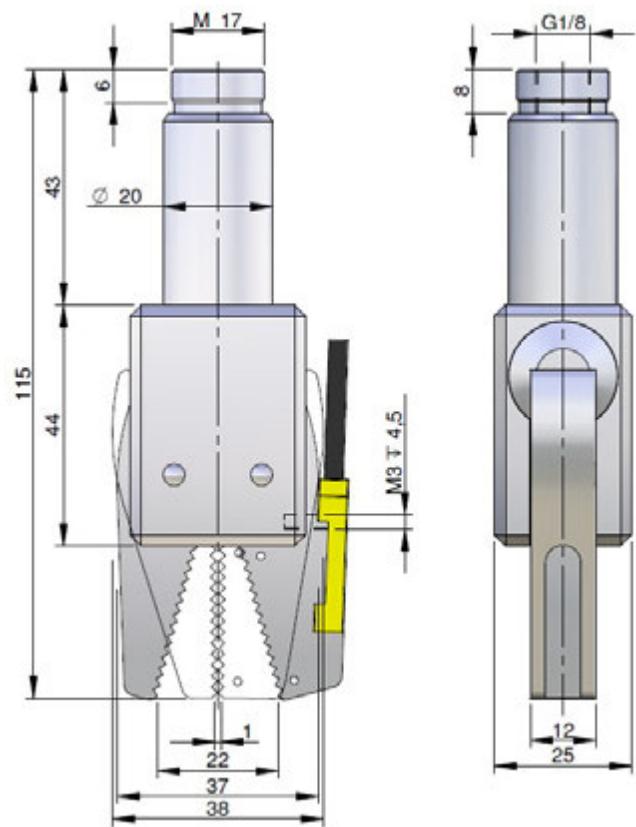
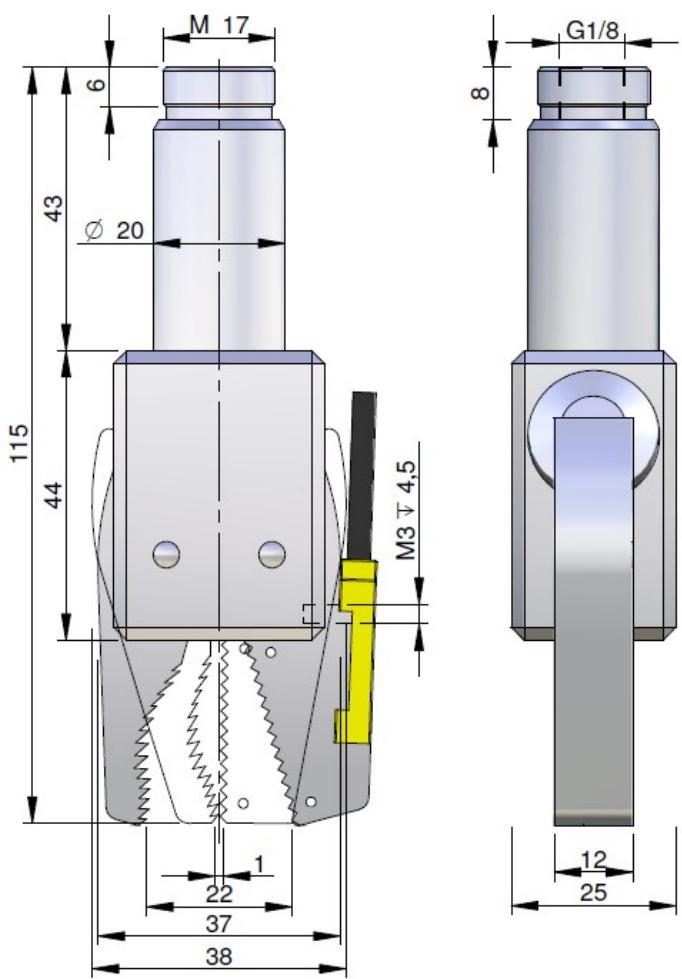
. Dimensioni



CA.09 GRZ.20

. Dimensions

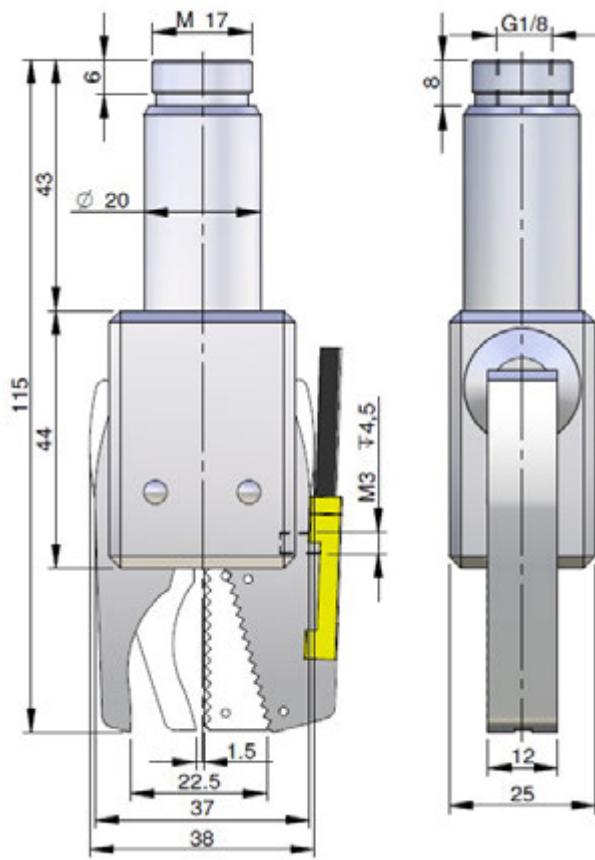
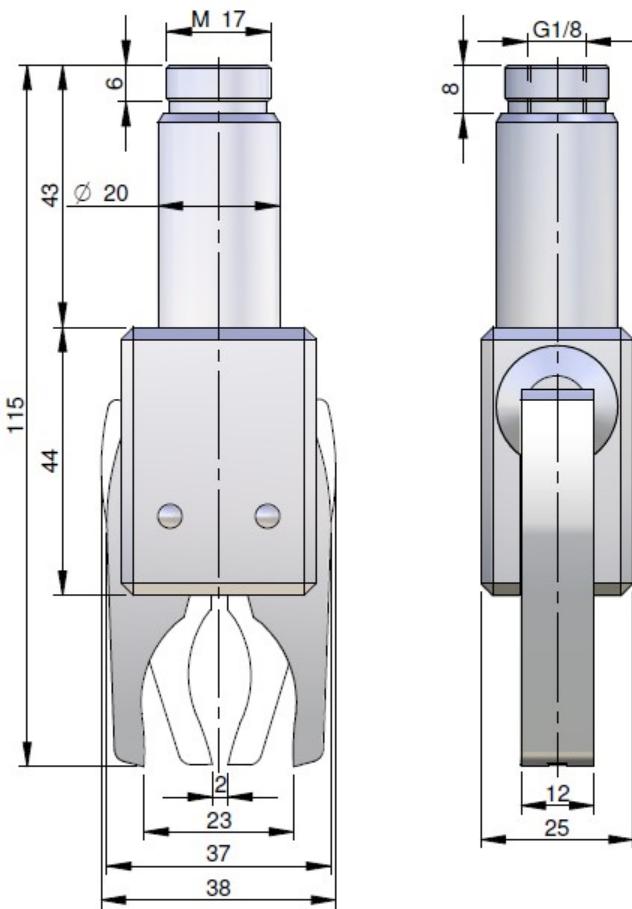
. Dimensioni

CA.GRZ.20.S/SN

CA.GRZ.20.W/WN


CA.09 GRZ.20

. Dimensions

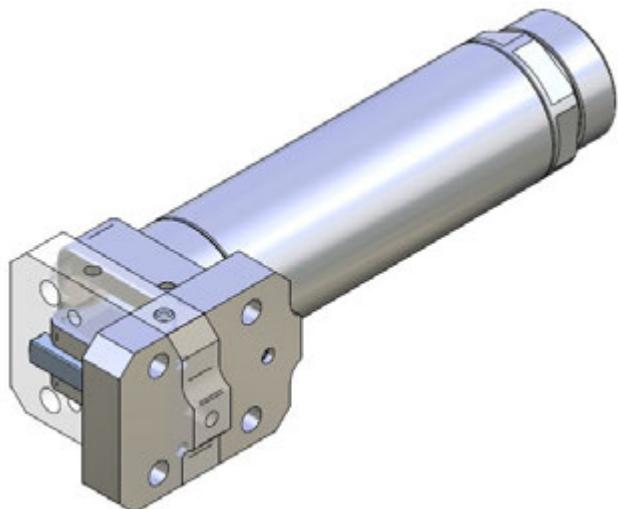
. Dimensioni

CA.GRZ.20.WL/WLN**CA.GRZ.20.LL**

CA.09 RBL 90°

. Pneumatic tilt

. Ribaltatore pneumatico



Remarks / Osservazioni:

Work principle: single acting

Azionamento a semplice effetto con apertura a molla

Extension thread for Extension Tube VLR

Filo prolunga per prolunga VLR

Working pressure: 6 bar clean and dry air

Pressione lavorante: 6 bar aria pulita e asciutta

Material / Materiale:

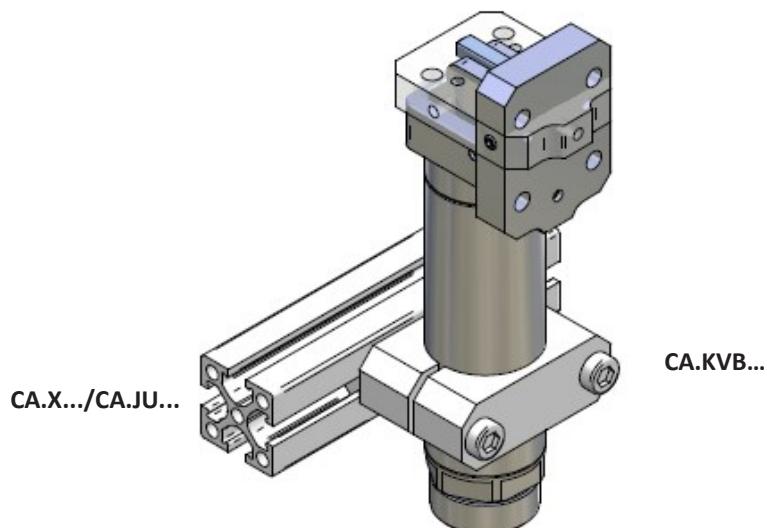
Aluminium / Alluminio

Surface: Silver anodized

Superficie: Argento anodizzato

Article no.	Stroke	External Diameter	Grip force (at 6 bar)	Cycle air consumption	Weight
CA.RBL.30	90°	Ø 30 mm	300 N	12.90 cm ³	270 g

Application example / Esempio applicativo

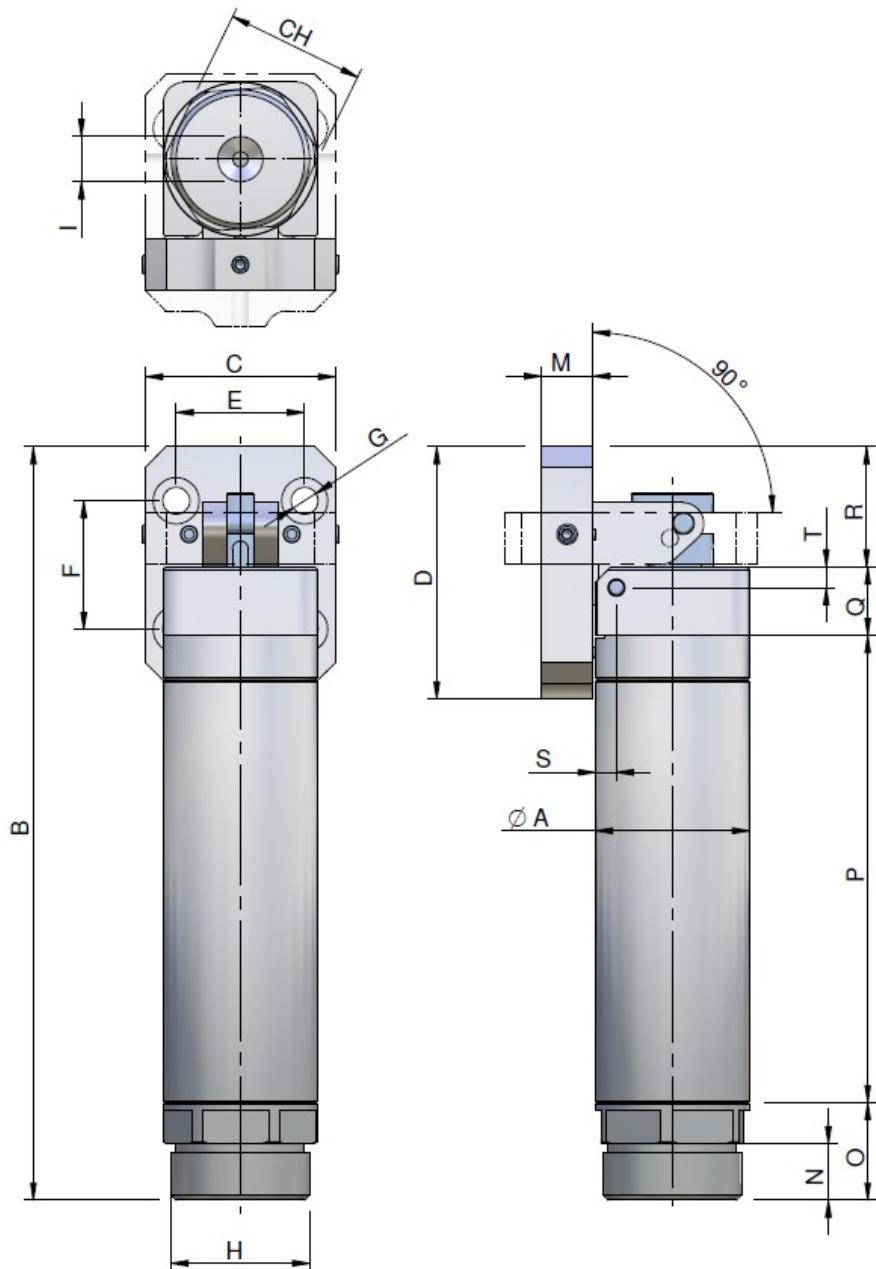


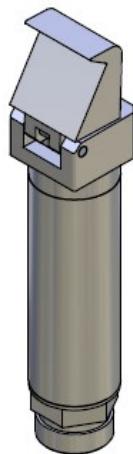
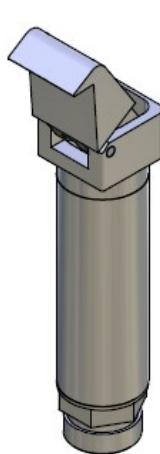
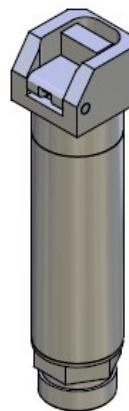
CA.09 RBL 90°

. Dimensions

. Dimensioni

Article no.	A	B	C	D	E	F	G	H	I	M	N	O	P	Q	R	S	T	CH
CA.RBL.30	Ø 30	146.5	37	49	25	25	5.3	M27x1	1/8	10	11	19	90.8	13.3	23.4	4.1	4	27



CA.09 GRF
. Gripper finger

CA.GRF..35

CA.GRF..95

. Dito di Presa
Remarks / Osservazioni:

Work principle: single acting

Azionamento a semplice effetto con apertura a molla

Extension thread for Extension Tube VLR
Filo prolunga per prolunga VLR

Working pressure: 6 bar clean and dry air

Pressione lavorante: 6 bar aria pulita e asciutta

Material / Materiale:

Aluminium / Alluminio

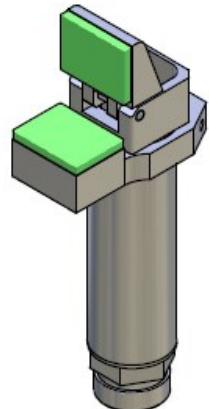
Surface: Silver anodized

Superficie: Argento anodizzato

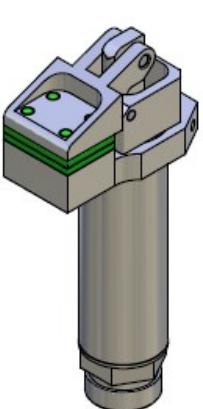
Article no.	Stroke	External Diameter	Grip force (at 6 bar)	Cycle air consumption	Weight
CA.GRF.1435	35°	Ø 14	26 N	0.40 cm³	25 g
CA.GRF.2035		Ø 20	100 N	1.24 cm³	65 g
CA.GRF.3035		Ø 30	430 N	4.56 cm³	206 g
CA.GRF.1490	90°	Ø 14	19 N	1.00 cm³	25 g
CA.GRF.2090		Ø 20	70 N	3.52 cm³	65 g
CA.GRF.3090		Ø 30	300 N	12.90 cm³	185 g
CA.GRF.1495	95°	Ø 14	19 N	1.00 cm³	25 g
CA.GRF.2095		Ø 20	70 N	3.52 cm³	60 g
CA.GRF.3095		Ø 30	300 N	12.90 cm³	193 g
CA.GRF.1495.G		Ø 14	19 N	1.00 cm³	28 g
CA.GRF.2095.G		Ø 20	70 N	3.52 cm³	75 g
CA.GRF.3095.G		Ø 30	300 N	12.90 cm³	235 g
CA.GRF.1495.GW		Ø 14	19 N	1.00 cm³	25 g
CA.GRF.2095.GW		Ø 20	70 N	3.52 cm³	60 g
CA.GRF.3095.GW		Ø 30	300 N	12.90 cm³	193 g
CA.GRF.2035.WE	35°	Ø 20	100 N	1.24 cm³	76 g
CA.GRF.3035.WE		Ø 30	430 N	12.90 cm³	259 g

CA.09 GRF

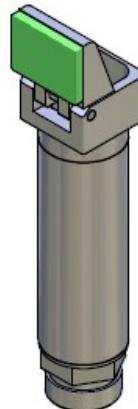
. Gripper finger



CA.GRF..95.G



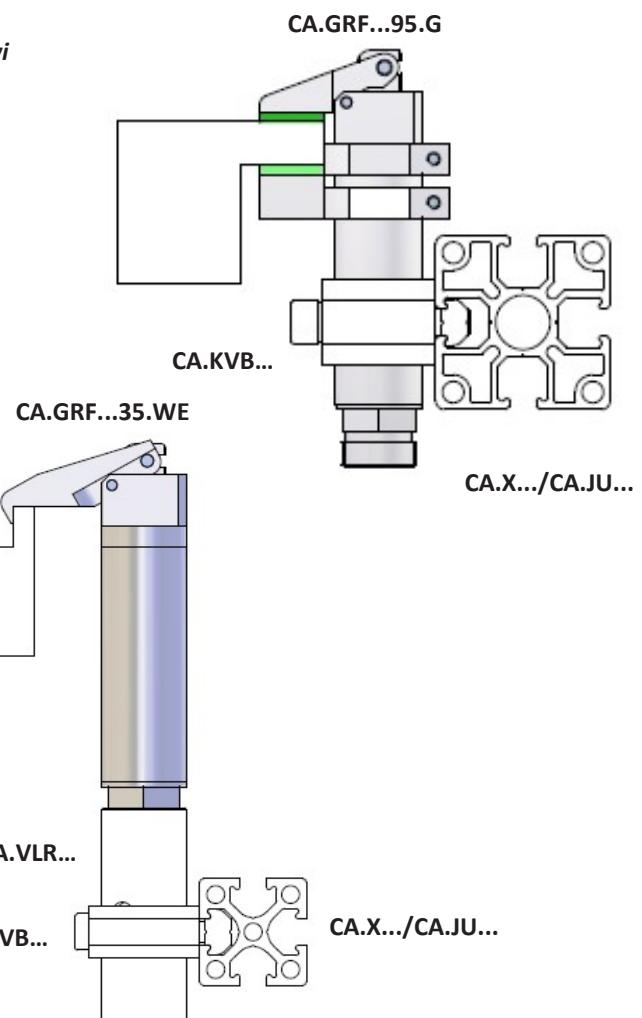
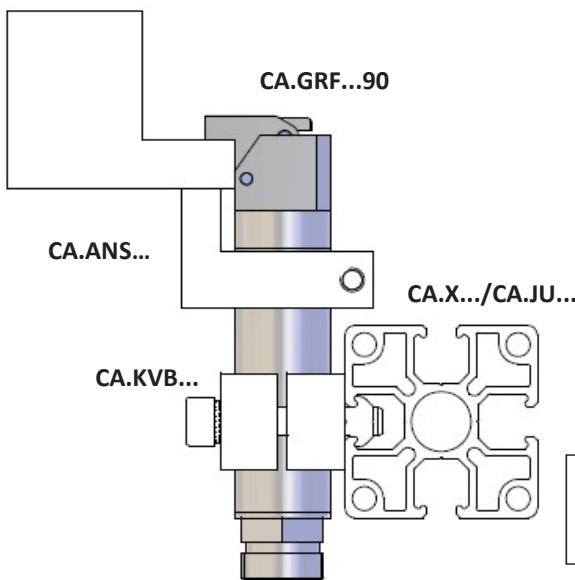
CA.GRF..95.GW



. Dito di Presa

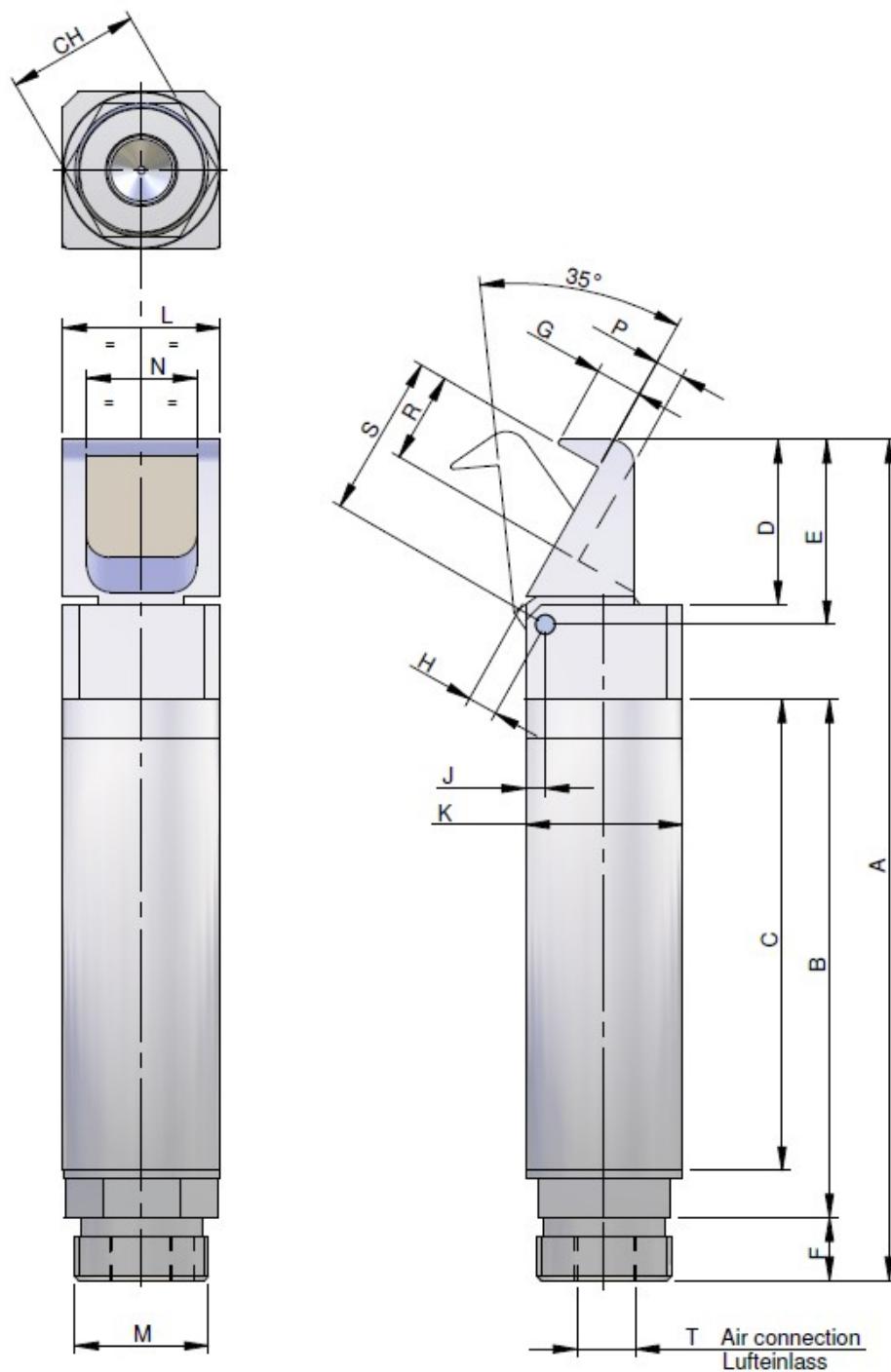
CA.GRF..35.WE

Application examples / Esempi applicativi



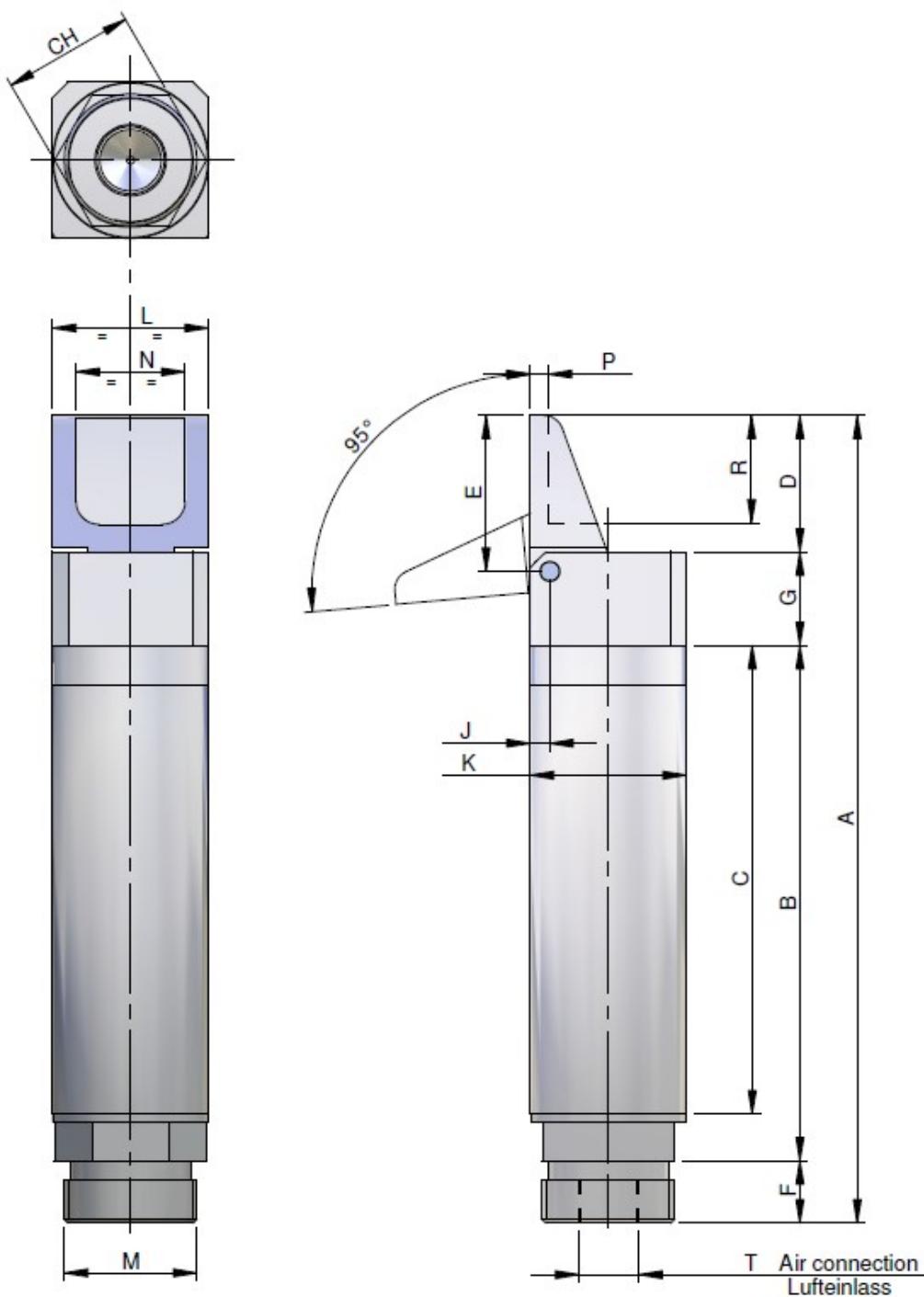
CA.09 GRF 35°
. Dimensions
. Dimensioni

Article no.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	CH
CA.GRF.1435	77	47.5	43.5	14	16	5.5	4.5	3.4	2	Ø 14	14	M12X1	10	2	6	13.5	M5	12
CA.GRF.2035	107	66	60	21	23.5	8	6	3.8	2.5	Ø 20	20	M17X1	14	3	11.5	20.7	G 1/8	17
CA.GRF.3035	156	100	92	30	34	11	8	6	4	Ø 30	30	M27X1	22	5	17	30.8		27



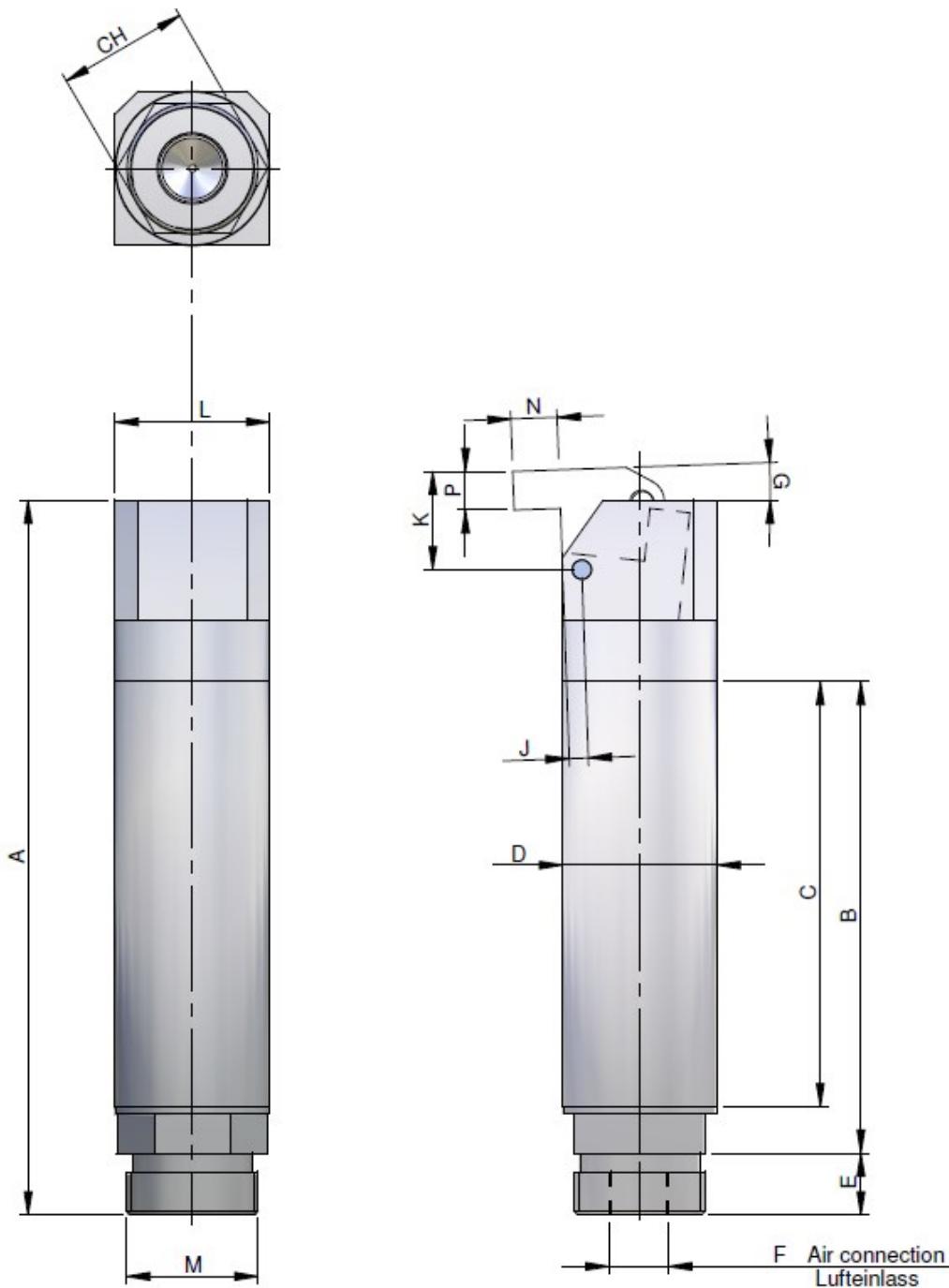
CA.09 GRF 95°**. Dimensions****. Dimensioni**

Article no.	A	B	C	D	E	F	G	J	K	L	M	N	P	R	T	CH
CA.GRF.1495	75.5	47.5	43.5	12	14	5.5	10.5	2	Ø 14	14	M12X1	10	2	9	M5	12
CA.GRF.2095	103.5	66	60	17.5	20	8	12	2.5	Ø 20	20	M17X1	14	3	14		17
CA.GRF.3095	148	100	90	25	29	11	12	4	Ø 30	30	M27X1	22	5	21	G 1/8	27



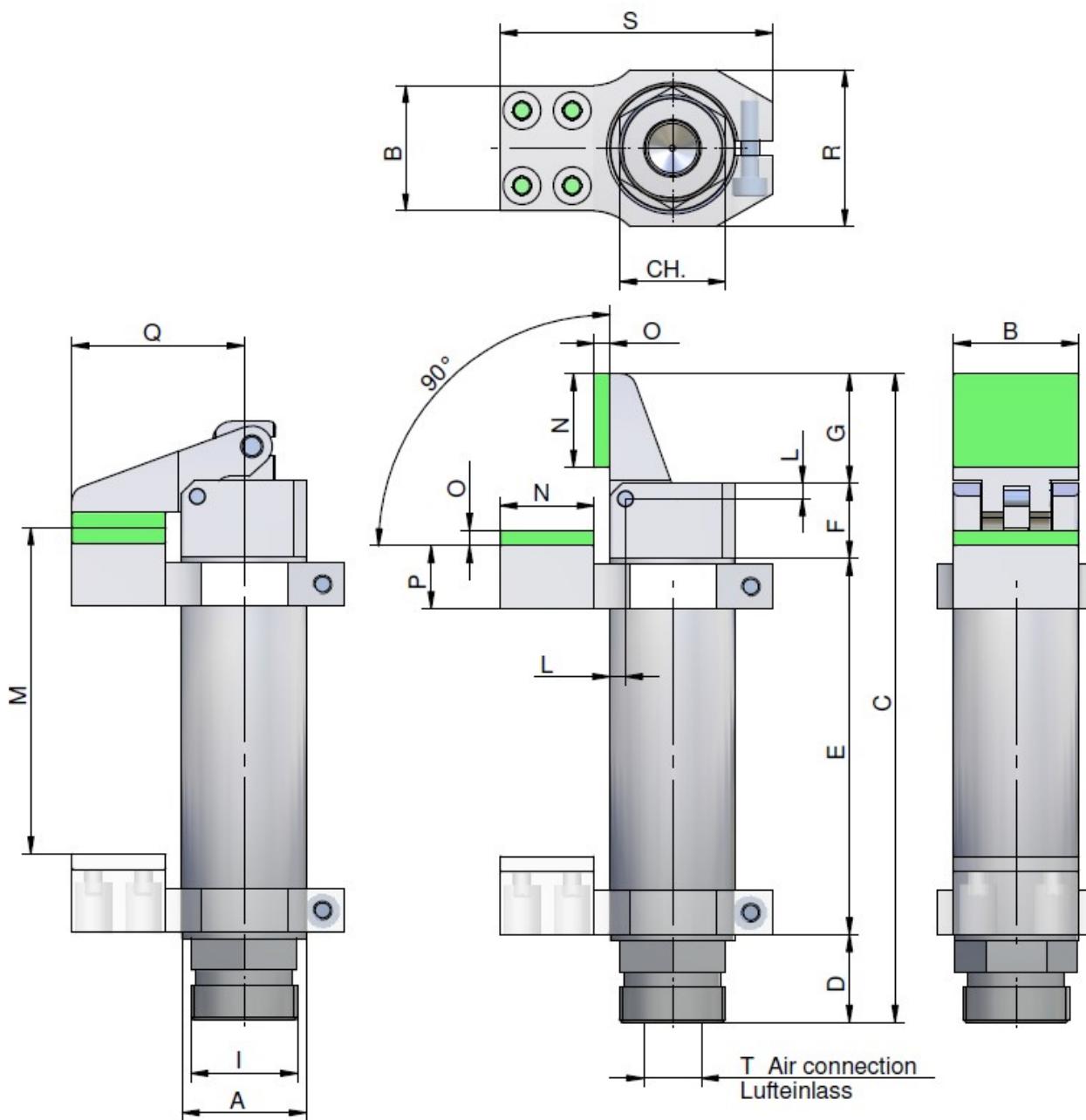
CA.09 GRF 90°
. Dimensions
. Dimensioni

Article no.	A	B	C	D	E	F	G	J	K	L	M	N	P	CH
CA.GRF.1490	69	45.5	41.5	Ø 14	5.5	M5		3	8	14	M12X1	4.8	4	12
CA.GRF.2090	92.5	61	55	Ø 20	8		2°	2.5	13	20	M17X1	6	5	17
CA.GRF.3090	135	91	83	Ø 30	11	G 1/8		4	20	30	M27X1	11	6	27



CA.09 GRF 95° G / GTPE**. Dimensions****. Dimensioni**

Article no.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	CH
CA.GRF.1495.G	Ø 14	14	75.5	9.5	43.5	10.5	12	5.5	M12X1	2	38.5	10	2.5	6.5	19	17.5	30	M5	12
CA.GRF.2095.G	Ø 20	20	103.5	14	60	12	17.5	8	M17X1	2.5	52.5	15	10	10	27.5	25	43.5	G 1/8	17
CA.GRF.3095.G	Ø 30	30	148	20	90	15	25	11	M27X1	4	81	20	3	9	40	37	60		27

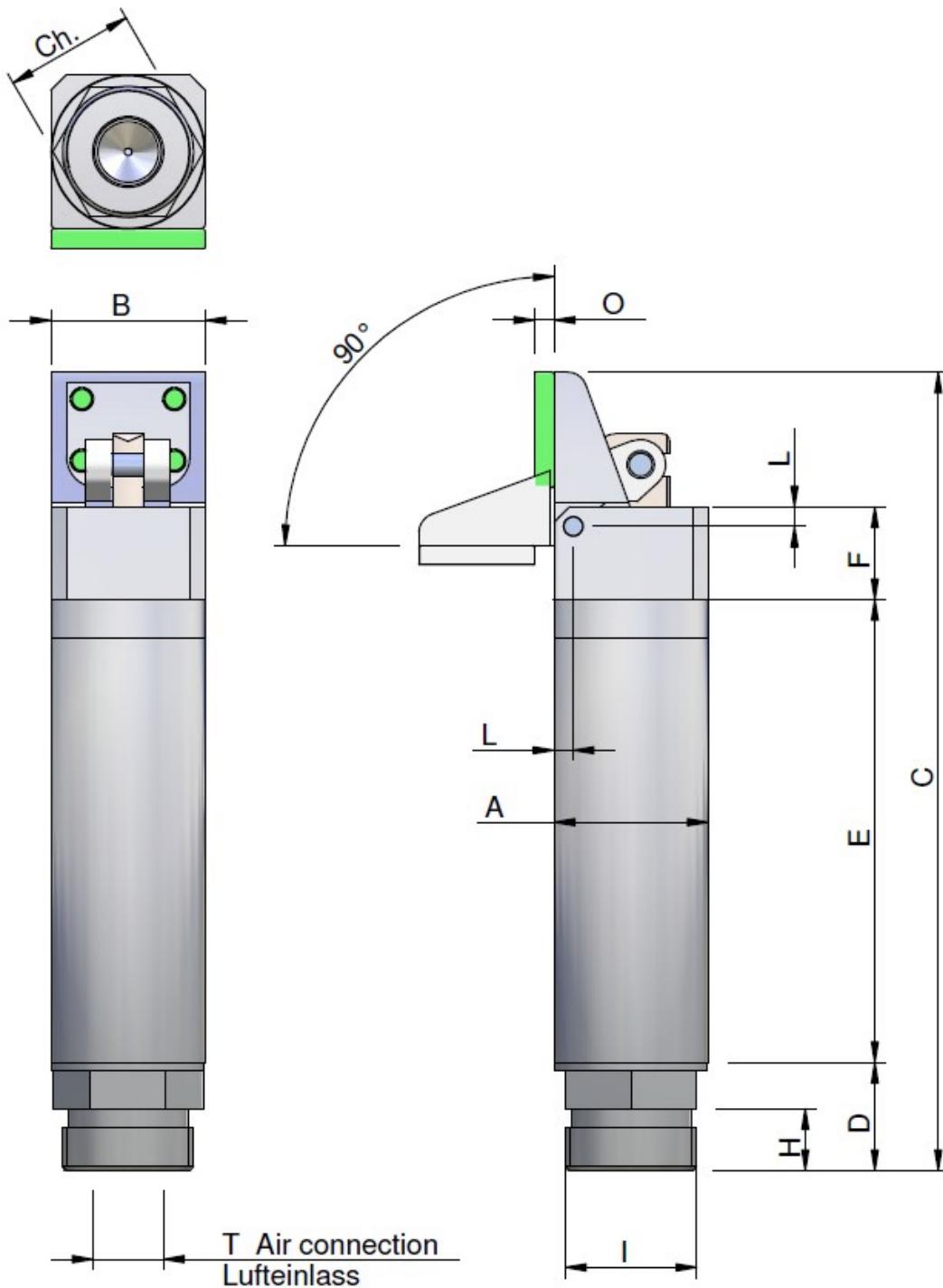


CA.09 GRF 95° GW

. Dimensions

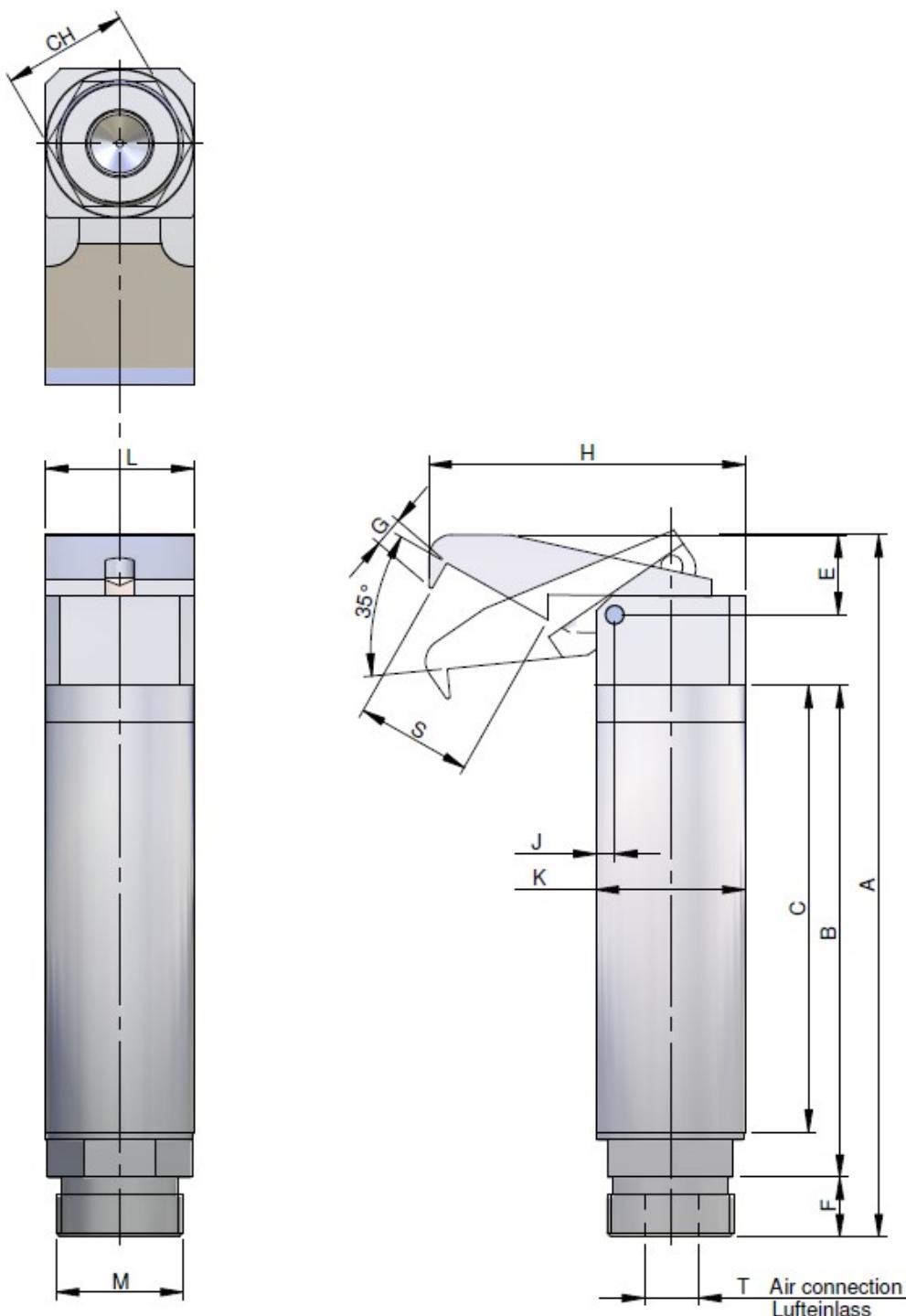
. Dimensioni

Article no.	A	B	C	D	E	F	H	I	L	O	T	CH
CA.GRF.1495.GW	Ø 14	14	75.5	9.5	43.5	10.5	5.5	M12X1	2	2.5	M5	12
CA.GRF.2095.GW	Ø 20	20	103	14	60	12	8	M17X1	2.5		G 1/8	17
CA.GRF.3095.GW	Ø 30	30	148	20	90	15	11	M27X1	4	3		27



CA.09 GRF 35° WE**. Dimensions****. Dimensioni**

Article no.	A	B	C	E	F	G	H	J	K	L	M	S	T	CH
CA.GRF.2035.WE	94	66	60	11	8	4	42.5	2.5	Ø 20	20	M17X1	15,5	G 1/8	17
CA.GRF.3035.WE	133	98	90	14	11		60.9	4.1	Ø 30	30	M27X1	26		27

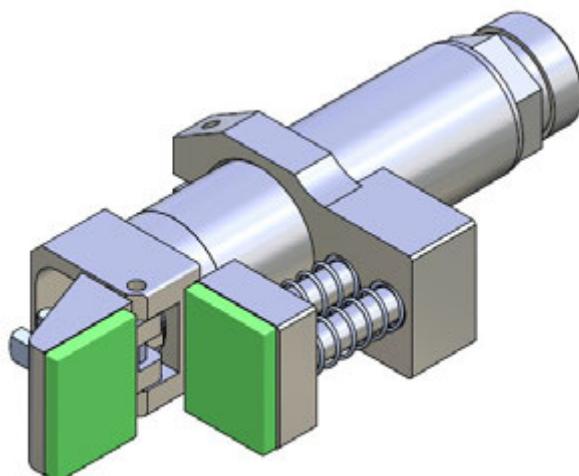


CA.09 GRF.VSX

. Gripper finger

Magnetic

. Dito di Presa


Remarks / Osservazioni:

Work principle: single acting
Azionamento a semplice effetto con apertura a molla

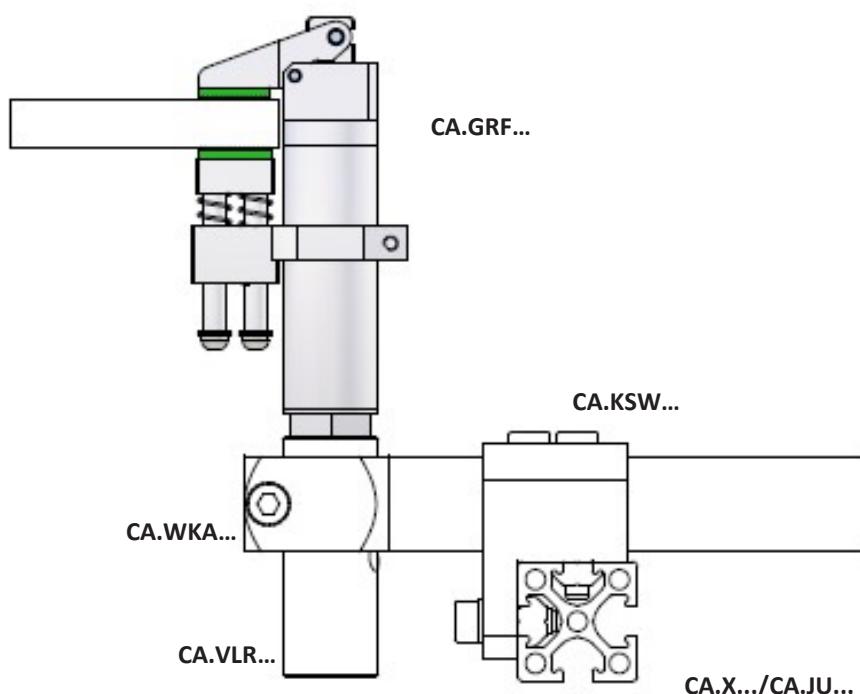
Extension thread for Extension Tube VLR
Filletto per prolunga VLR

Working pressure: 6 bar clean and dry air
Pressione lavorante: 6 bar aria pulita e asciutta

Material / Materiale: Aluminium / Alluminio

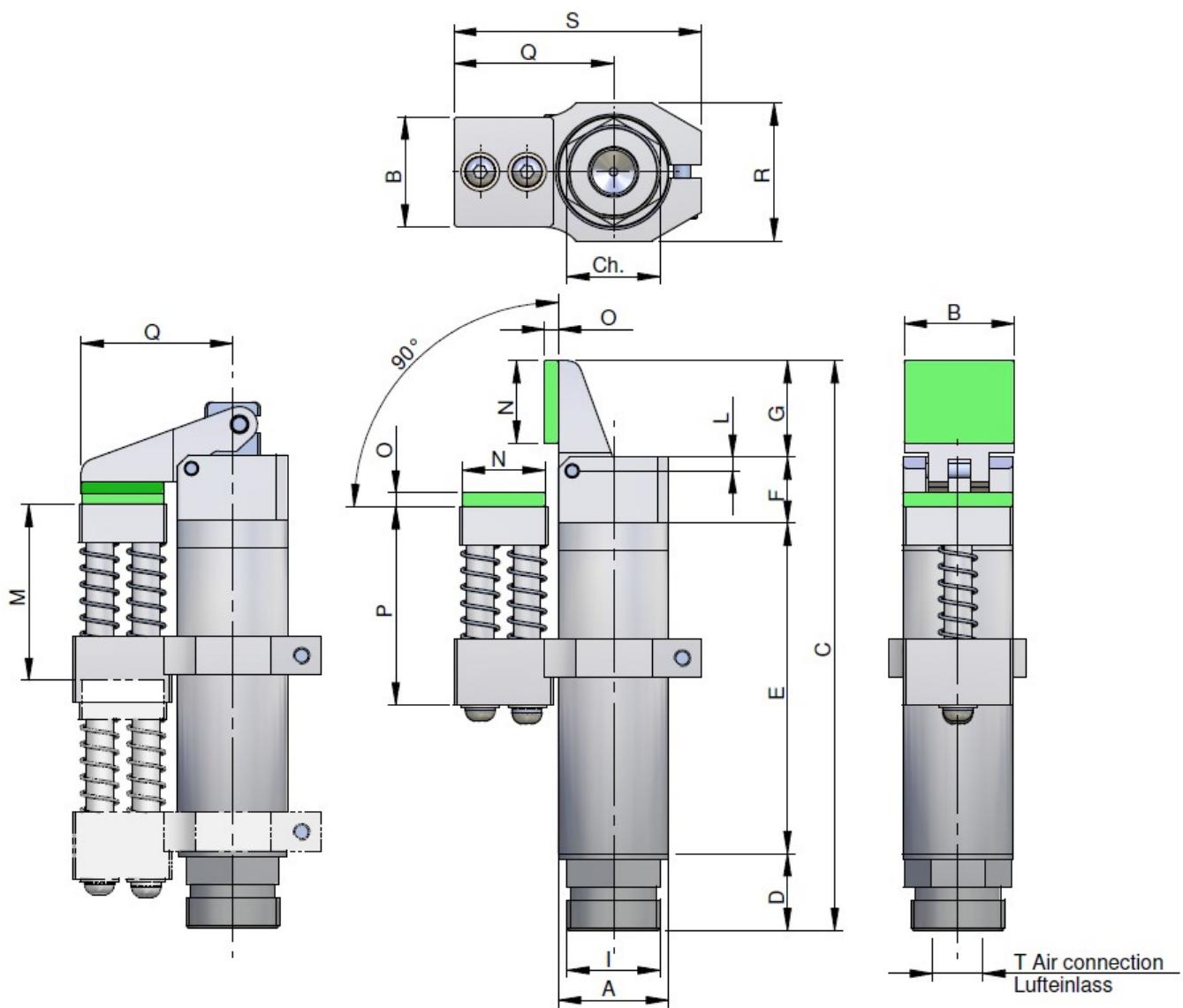
Surface: silver anodized
Superficie: argento anodizzato

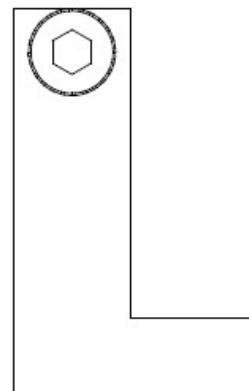
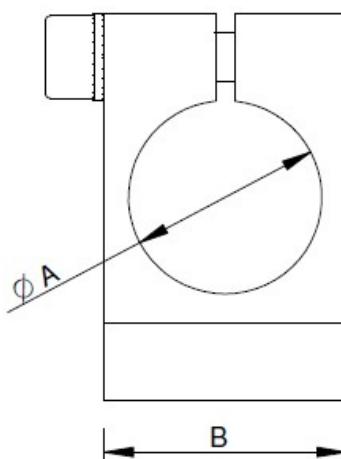
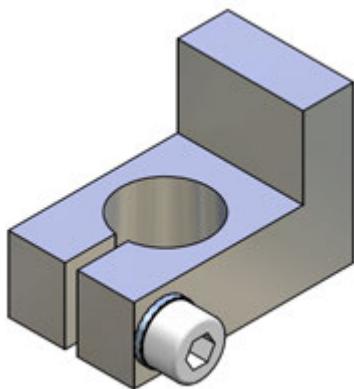
Article no.	Stroke	Piston bore	Grip force (at 6 bar)	Cycle air consumption	Weight
CA.GRF.1495.VSX	95°	Ø 10 mm	19 N	1.00 cm ³	45 g
CA.GRF.2095.VSX		Ø 16 mm	70 N	3.52 cm ³	100 g
CA.GRF.3095.VSX		Ø 25 mm	300 N	12.90 cm ³	360 g

Application example / Esempio applicativo


CA.09 GRF 95° VSX**. Dimensions****. Dimensioni**

Article no.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	CH
CA.GRF.1495.VSX	Ø 14	14	75.5	9.5	43.5	10.5	12	5.5	M12X1	2	16.5	10	2.5	6.5	19	17.5	30	M5	12
CA.GRF.2095.VSX	Ø 20	20	103.5	14	60	12	17.5	8	M17X1	2.5	41.5	15	2.5	10	27.5	25	43.5	G 1/8	17
CA.GRF.3095.VSX	Ø 30	30	148	20	90	15	25	11	M27X1	4	53	20	3	9	40	37	60		27



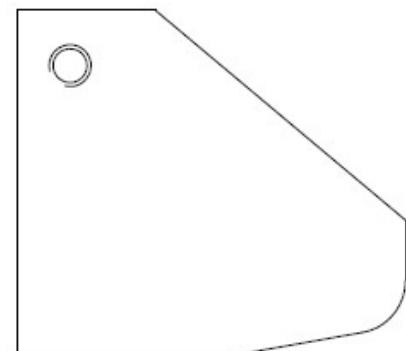
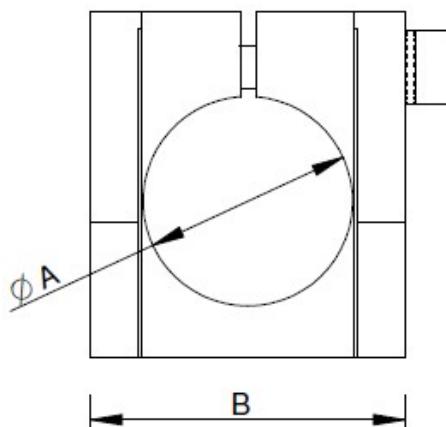
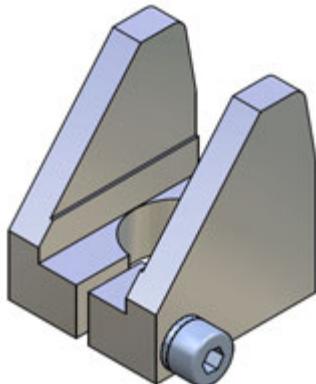
CA.09 ANS / ZTS
GRF
. Stopper for grippers

. Riscontro Pinza

Article no.	A	B	M	Weight
CA.ANS.14	Ø 14	20	CA.GRF.14...	17 g
CA.ANS.20	Ø 20	25	CA.GRF.20...	21 g
CA.ANS.30	Ø 30	35	CA.GRF.30...	30 g

Table / Tabella
M = Suitable for Gripper finger GRF...
Applicabile a dito di presa GRF...

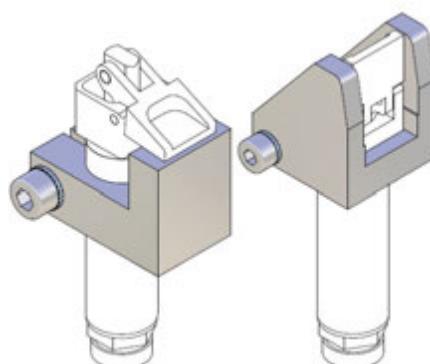
Remarks / Osservazioni:

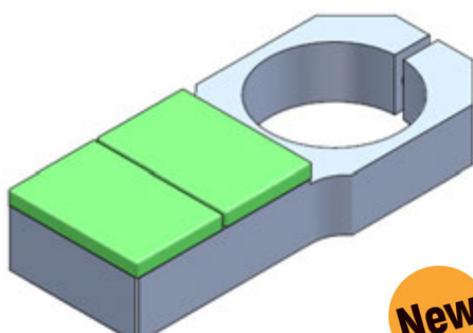
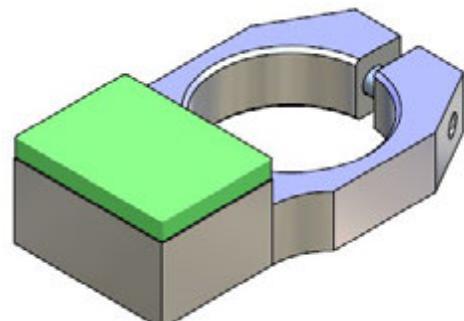
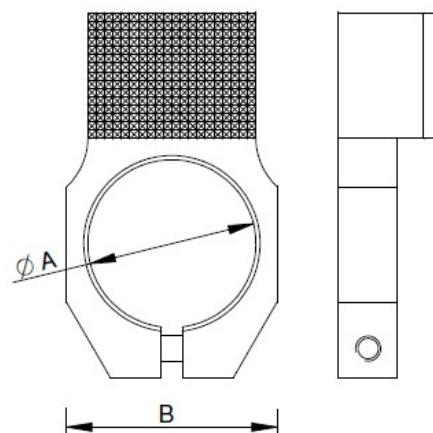
Material / Materiale: POM

. Gripper guide
. Guida Pinza


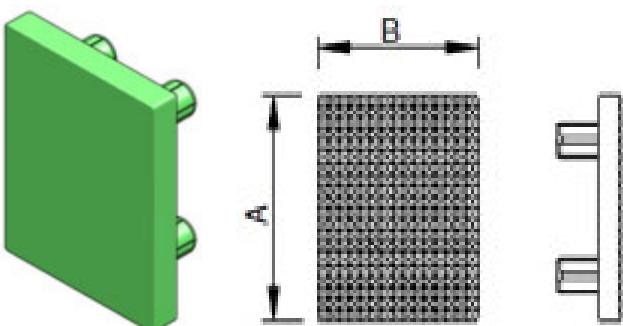
Application example / Esempio applicativo

Article no.	A	B	M	Weight
CA.ZTS.14	Ø 14	24	CA.GRF.14...	15 g
CA.ZTS.20	Ø 20	30	CA.GRF.20...	20 g
CA.ZTS.30	Ø 30	45	CA.GRF.30...	60 g



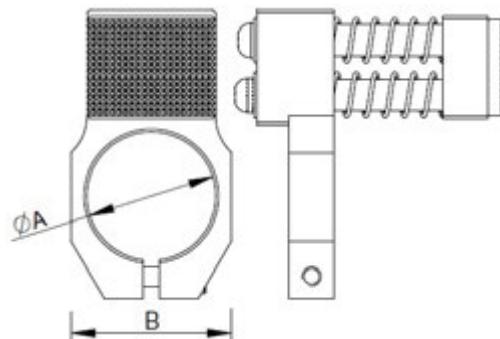
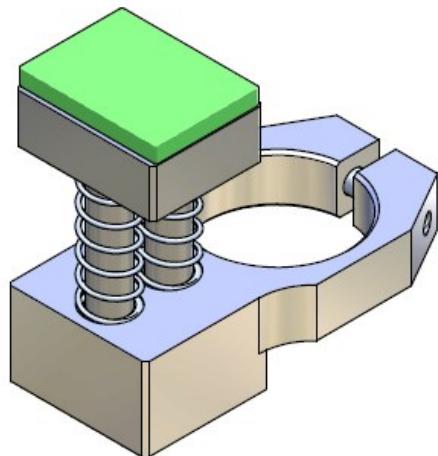
CA.09 GRF 0708**GRF****. Stopper for grippers****New****. Gommino collare per pinza**

Article no.	A	B	M	Weight
GRF14.95.0708	Ø 14	20	CA.GRF.14...	5 g
GRF20.95.0708	Ø 20	25	CA.GRF.20...	14 g
GRF30.95.0708	Ø 30	37	CA.GRF.30...	33 g
GRF30.95.0708.40				

New**Table / Tabella****M = Suitable for Gripper finger GRF...
Applicabile a dito di presa GRF...****Remarks / Osservazioni:****Material / Materiale:** Viton**. Insert VITON****. Gommino per Pinza VITON**

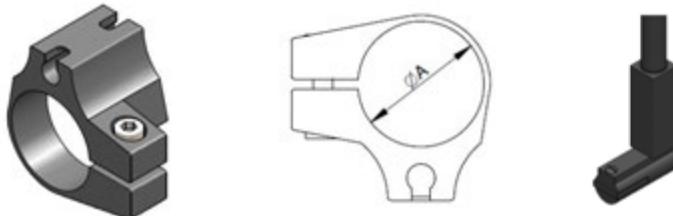
Article no.		Colour	A	B	M	Weight
GRF14.95.08.V	VITON	Green	14	10	CA.GRF.14...	1 g
GRF20.95.08.V			20	15	CA.GRF.20...	2 g
GRF30.95.08.V			30	20	CA.GRF.30...	3 g

	VITON
UV ageing, weather -resistance Resistenza all'usura UV e del tempo	😊
Low temperature limit Limite basso di temperatura	-10°C
High temperature limit (continuous) Limite alto di temperature (continuo)	180°C
High temperature limit (< 30 sec.) Limite alto di temperature (< 30 sec.)	210°C
Leaving few marks Rimanenza di segni	😊

CA.09 GRF VSX
GRF
. Stopper for grippers
. Riscontro Pinza


Article no.	A	B	M	Weight
GRF14.VSX	Ø 14	20	CA.GRF.14..	15 g
GRF20.VSX	Ø 20	25	CA.GRF.20..	20 g
GRF30.VSX	Ø 30	37	CA.GRF.30..	50 g

Remarks / Osservazioni:
Material / Materiale: Viton

Table / Tabella
M = Suitable for Gripper finger GRF...
Applicabile a dito di presa GRF...
. Holder for Cylinder sensor
. Supporto per sensore cilindrico


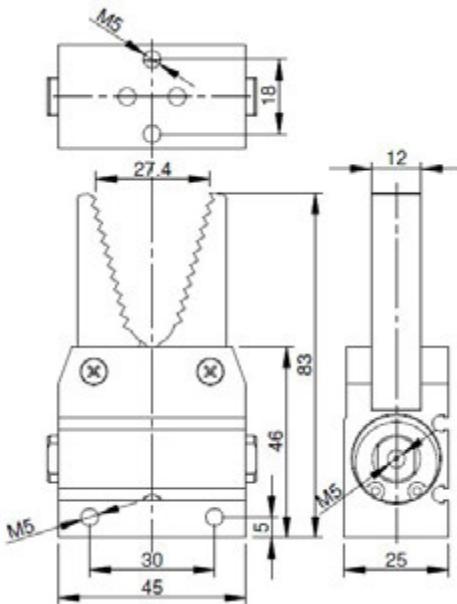
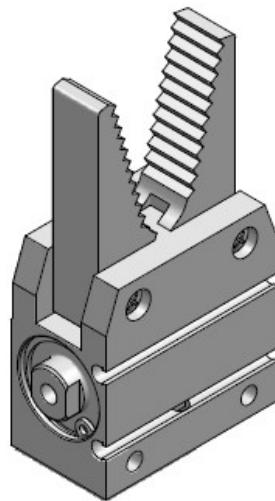
Article no.	A	M	Sensor
CA.TIK.14007	Ø 14	CA.GRF.14..	
CA.TIK.20007	Ø 20	CA.GRF.20..	KT38...
CA.TIK.30007	Ø 30	CA.GRF.30..	

GZA.AA24 S2

. Selfcentering sprue gripper

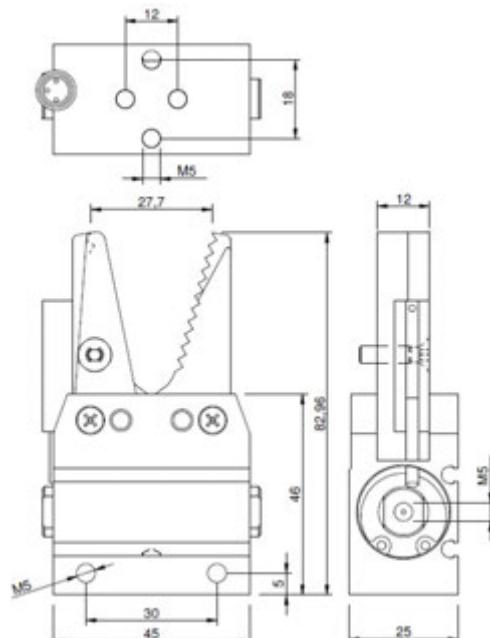
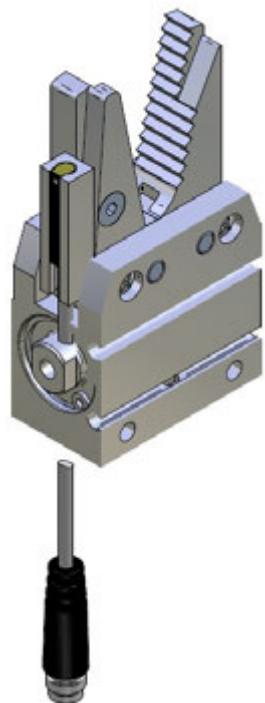
GZA

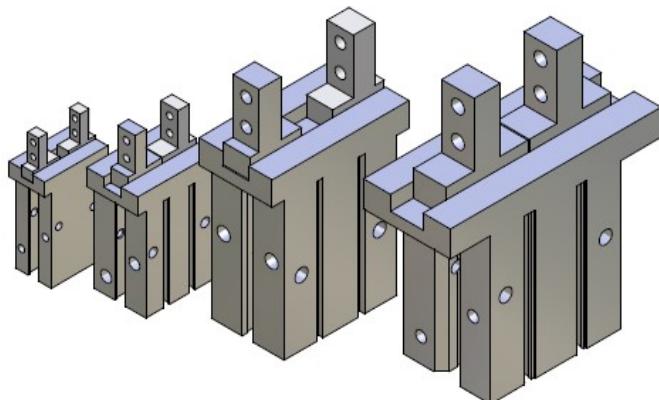
. Pinza Materozza



Article no.	Work principle	Sensor	Weight
CA.GZA.AA24	Double effect		
CA.GZA.AA24.NO	Normally Open		115 g
CA.GZA.AA24.NOS2		KT58REQD	
CA.GZA.AA24.NOSN		KT58NM8	151 g
CA.GZA.AA24.NOSP		KT58PM8	

NOS2 / NOSN / NOSP



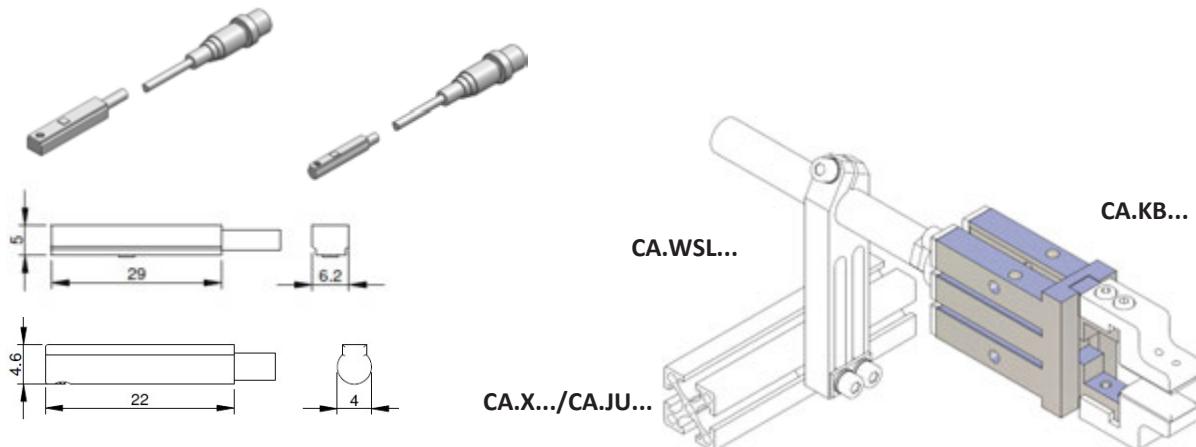
CA.09.05 GS
GS
. Parallel gripper Easy GS

. Pinza parallela due griffe autocentranti Easy GS

Remarks / Osservazioni:

Available also with closing spring (.NC) or with opening spring (.NO)

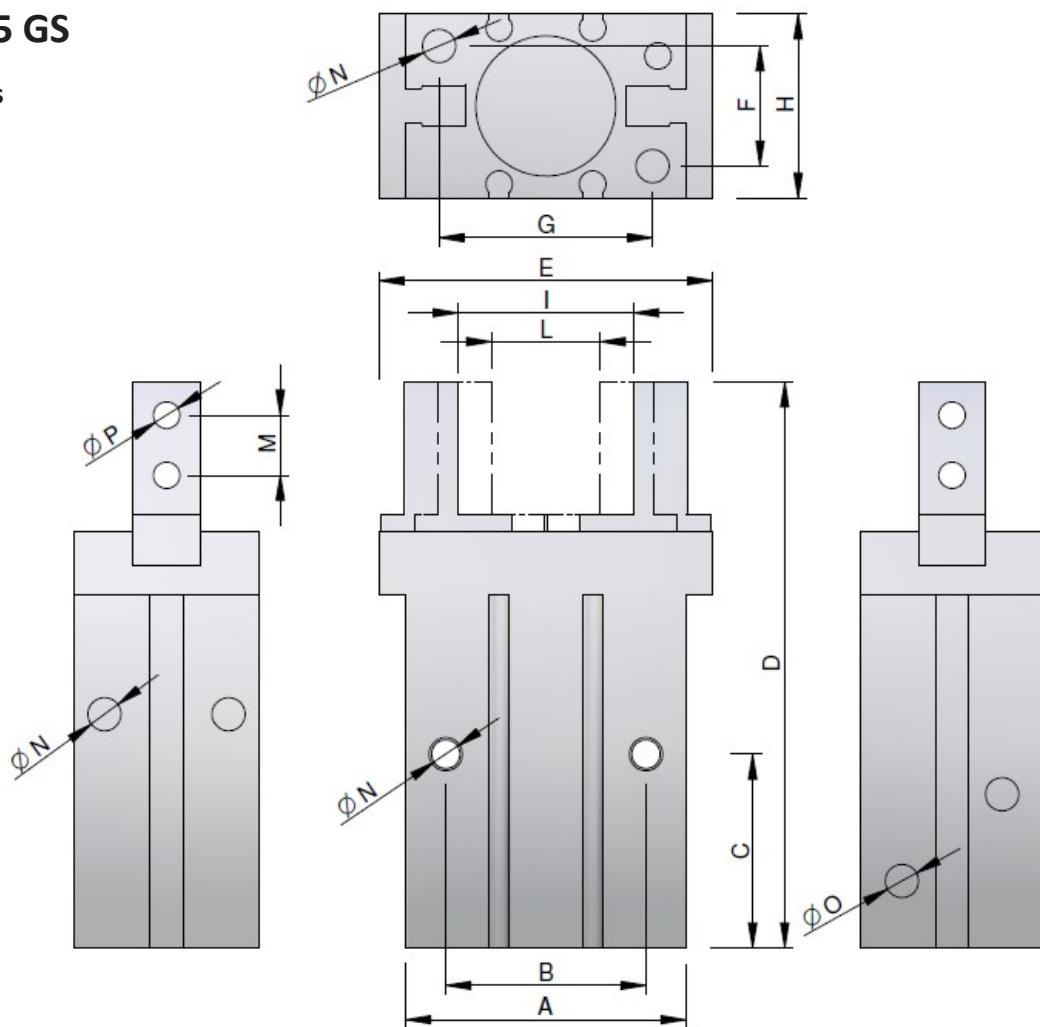
Disponibile anche con molla in chiusura (.NC) o con molla in apertura (.NO)

Article no.	Bore size	Stroke	Opening total gripping force	Closing total gripping force	Sensor (Optional)		Weight
					PNP	NPN	
CA.09.05.009	10	4	22 N	34 N	DS1HPC08	DS1HNC08	55 g
CA.09.05.009.NC		8					
CA.09.05.009.NO		8					
CA.09.05.009.L	16	6	68 N	90 N	SMC.D.Y7PSAPC	SMC.D-Y59ASAPC	60 g
CA.09.05.010		12					
CA.09.05.010.NC	20	6	84 N	132 N	KT38PM8	KT38NM8	135 g
CA.09.05.010.NO		12					
CA.09.05.010.L		10					
CA.09.05.011	20	10	84 N	132 N	KT38P3M	KT38N3M	235 g
CA.09.05.011.NC		18					
CA.09.05.011.NO		18					
CA.09.05.011.L		10					
CA.09.05.012	25	14	130 N	208 N	KT58PM8	KT58NM8	430 g
CA.09.05.012.NC		22					
CA.09.05.012.NO		14					
CA.09.05.012.L		22					
CA.09.05.013	32	22	316 N	386 N	KT58P3M	KT58N3M	470 g
CA.09.05.014	40	30	508 N	636 N			715 g
							1275 g

Application example / Esempio applicativo


CA.09.05 GS

. Dimensions

**GS**

. Dimensioni

Article no.	Bore size	A	B	C	D	E	F	G	H	I open	L closed	Stroke	M	N	O	P
CA.09.05.009																
CA.09.05.009.NC	10	23	16	23	57	30	12	18	16.4	16	11.5	4	5.7	M3	M3	M2.5
CA.09.05.009.NO				25		35				20.5		8				
CA.09.05.009.L																
CA.09.05.010																
CA.09.05.010.NC	16	30.5	24	24.5	67	39	15	22	23.6	21.5	14.9	6	7	M4		M3
CA.09.05.010.NO				31	70	47				28.5	15	12				
CA.09.05.010.L																
CA.09.05.011																
CA.09.05.011.NC	20	42	30	29	85	53	18	32	27.5	27.5	16.5	11	9	M5		M4
CA.09.05.011.NO				36	90	62				35.5		18			M5	
CA.09.05.011.L																
CA.09.05.012																
CA.09.05.012.NC	25	52	36	30	102	71	22	40	33.5	34	19	14	12	M6		M5
CA.09.05.012.NO				40	106	75				42.6	19	23				M6
CA.09.05.012.L																
CA.09.05.013	32	60	46	40	113	97	26	46	40	47	26	22	14	M6		M6
CA.09.05.014	40	72	56	49	139	119	32	56	48	61,35	30	30	17	M8		M8

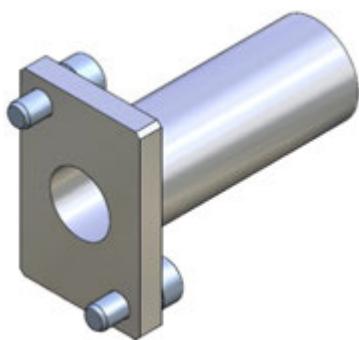
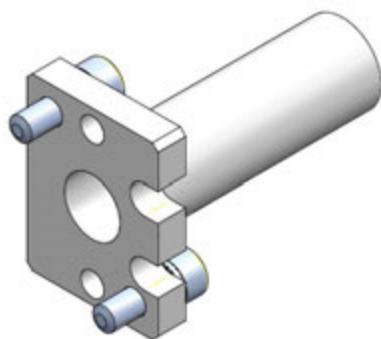
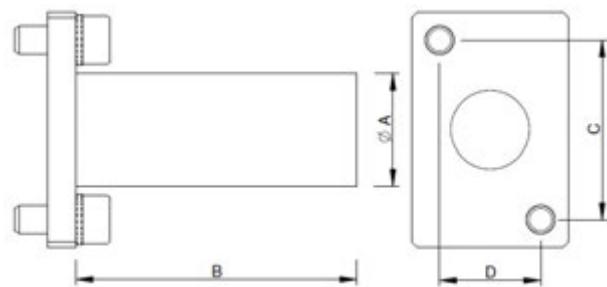
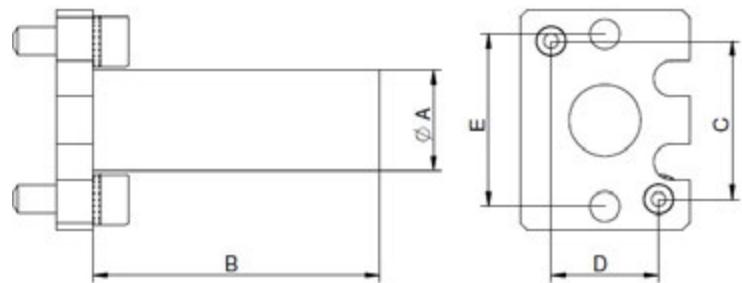
CA.09 APGE
GS
. Adapter for parallel gripper GS

. Staffa per pinze parallele GS


Table / Tabella

M = Suitable for GS...
Applicabile a GS...

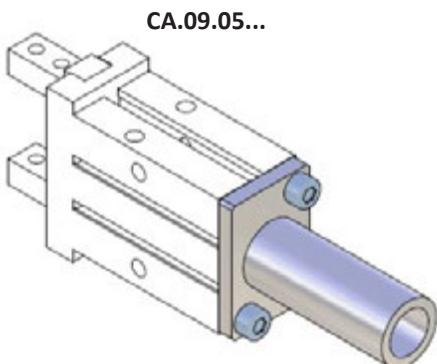
Article no.	A	B	C	D	M	Weight
CA.APGE.10.10.30	10	30	16	12	CA.09.05.009 / L	11 g
CA.APGE.16.14.40	14	40	24	15	CA.09.05.010 / L	21 g
CA.APGE.20.20.50	20	50	30	18	CA.09.05.011 / L	38 g
CA.APGE.25.20.50			36	22	CA.09.05.012 / L	55 g
CA.APGE.32.20.50			46	26	CA.09.05.013	102 g
CA.APGE.40.20.50			56	32	CA.09.05.014	140 g

Remarks / Osservazioni:

Material / Materiale:
Aluminium / Alluminio

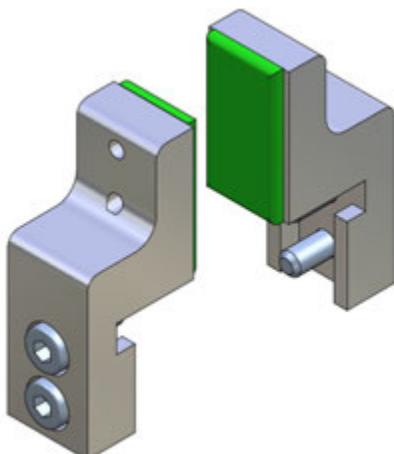
Surface: Silver anodized
Superficie: Argento anodizzato

Application example / Esempio applicativo

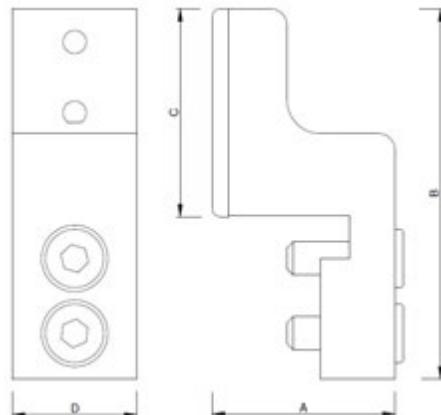


CA.09 KB

. Jaws for Parallel Gripper GS (complete)



. Dita per pinza parallela GS (completa)



Article no.	Insert	A	B	C	D	M	Weight
CA.KB.10	GRF14.95.08	16	27	14	10	CA.09.05.009 / L	14 g
CA.KB.16	GRF20.95.08	19	35	20	15	CA.09.05.010 / L	28 g
CA.KB.20	PAC.20.16P.03	22	44.5	25	20	CA.09.05.011 / L	41 g
CA.KB.25	PAC.20.16P.03	29	55			CA.09.05.012 / L	89 g
CA.KB.32	GRF30.95.08.V	36	65.5	30	25	CA.09.05.013	166 g

Table / Tabella

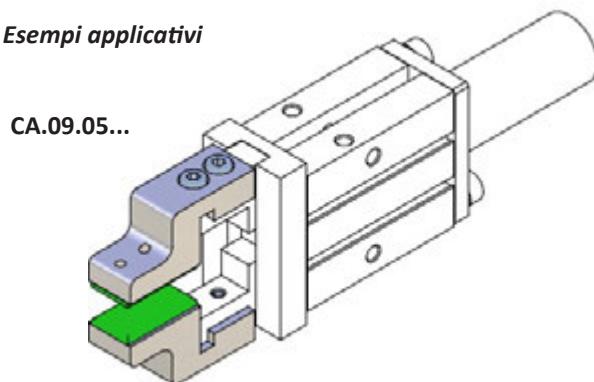
M = Suitable for CA.09.05...
Applicabile a CA.09.05...

Remarks / Osservazioni:

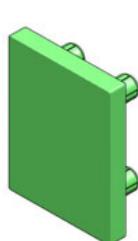
Material / Materiale:
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato

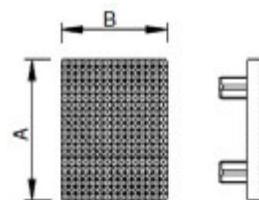
Application example / Esempi applicativi



. Insert VITON



GRF...



. Gommino per Pinza VITON

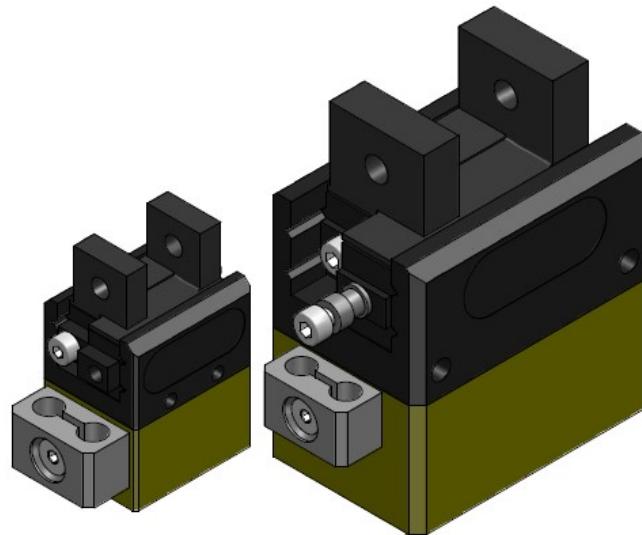
PAC...



Article no.		Colour	A	B	M	Weight
GRF14.95.08.V	VITON	Green	14	10	CA.KB.10	1 g
GRF20.95.08.V			20	15	CA.KB.16	2 g
PAC.20.16P.03.V			25	13	CA.KB.20 CA.KB.25	3 g

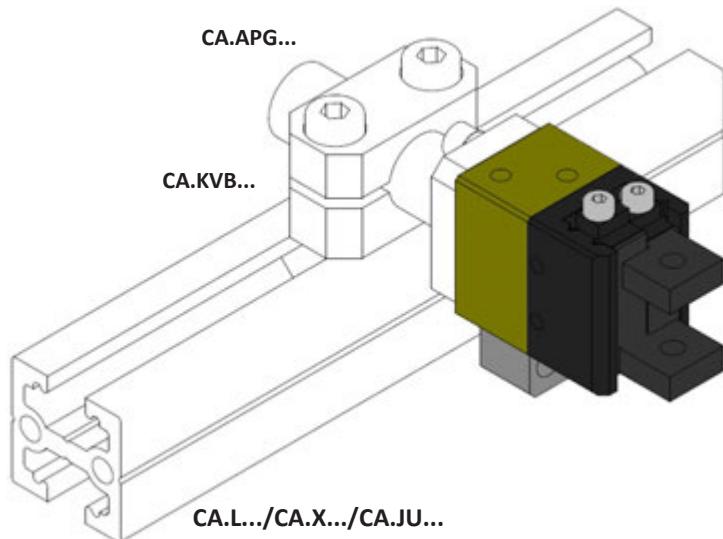
CA.09 MPG
MPG

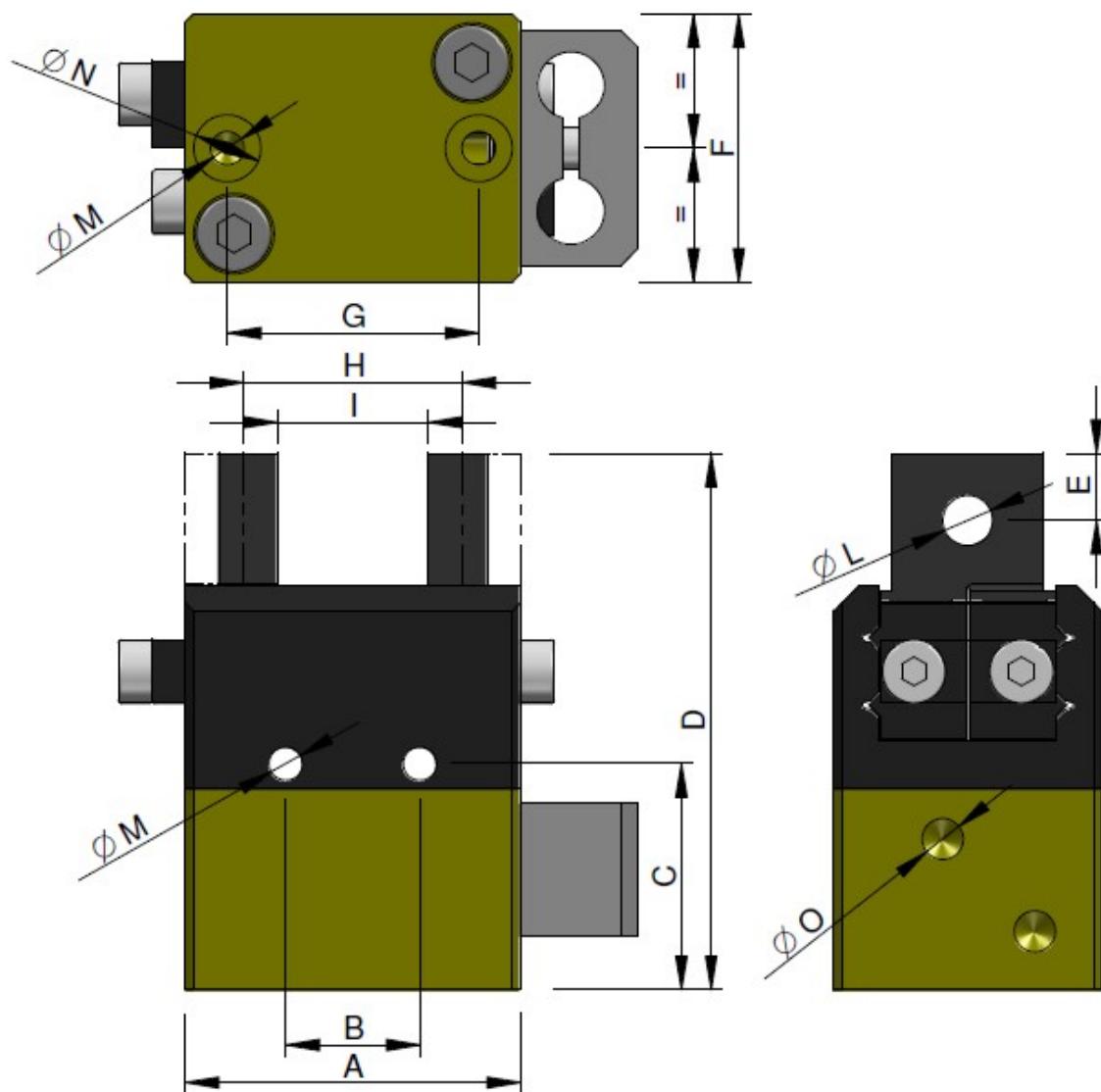
. Parallel gripper

 . *Pinza parallela*


Article no.	Stroke	Opening total gripping force	Closing total gripping force	Weight
CA.MPG.20	4	24 N	28 N	40 g
CA.MPG.25	6	28 N	31 N	60 g
CA.MPG.32	8	55 N	65 N	120 g
CA.MPG.40	12	90 N	110 N	200 g
CA.MPG.50	16	155 N	175 N	350 g
CA.MPG.64	20	190 N	200 N	600 g

Application example / Esempio applicativo



CA.09 MPG**MPG****. Dimensions****. Dimensioni**

Article no.	Bore size	A	B	C	D	E	F	G	H	I	L	M	N	O
CA.MPG.20	20	20	8	13.5	32		16	15	13	9		M2.5	4	
CA.MPG.25	25	26		15	34	4	18	20	17	11	3	M3	5	M3
CA.MPG.32	32	32		19	43	5	22	25	22	14		M4	6	
CA.MPG.40	40	40		23.5	51	6	26	32	28	16				M5
CA.MPG.50	50	50	40	26.5	60	7	30	40	35	18	5	M5	8	
CA.MPG.64	64	64	52	29	70	8	35	52	44	24	6			

CA.09 APG
MPG

. Adapter for parallel gripper MPG

. Staffa per pinza parallela MPG

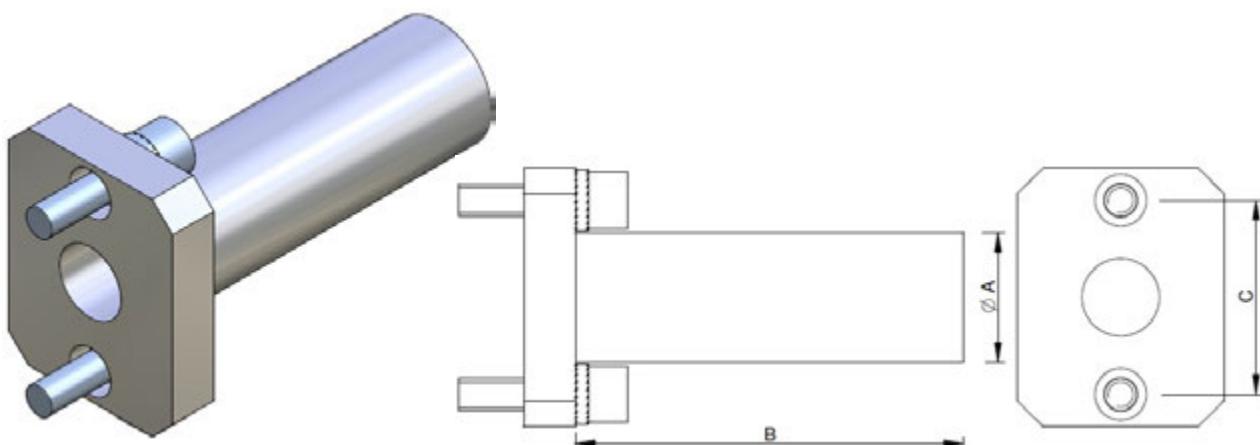


Table / Tabella

M = Suitable for MPG...
Applicabile ai MPG...

Article no.	A	B	C	M	Weight
CA.APG.20.10.30	10	30	15	CA.MPG.20	8 g
CA.APG.25.14.40	14	40	20	CA.MPG.25	16 g
CA.APG.32.14.40			25	CA.MPG.32	23 g
CA.APG.40.14.50			30	CA.MPG.40	22 g
CA.APG.40.20.50	20	50	32	CA.MPG.40	30 g
CA.APG.50.20.50			40	CA.MPG.50	48 g
CA.APG.65.20.50			52	CA.MPG.64	63 g

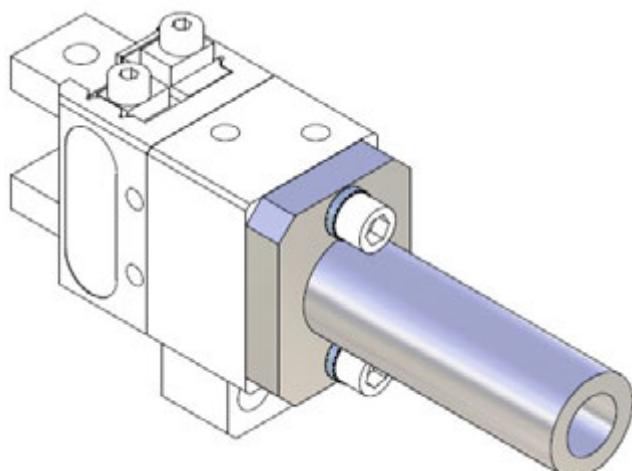
Remarks / Osservazioni:

 Material / Materiale:
 Aluminium / Alluminio

 Surface: Silver anodized
 Superficie: Argento anodizzato

Application example / Esempio applicativo

CA.MPG...



Notes/*Note*

Notes/*Note*

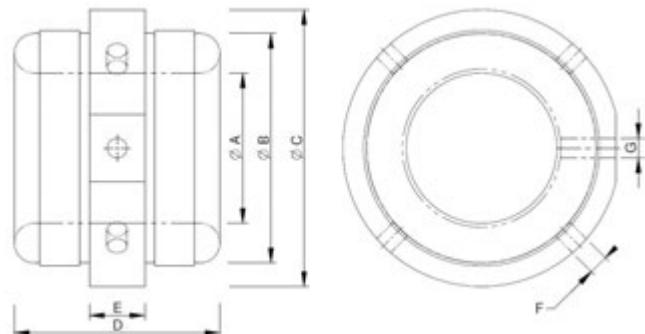
Notes/*Note*

CA.09.13

. Airgripper

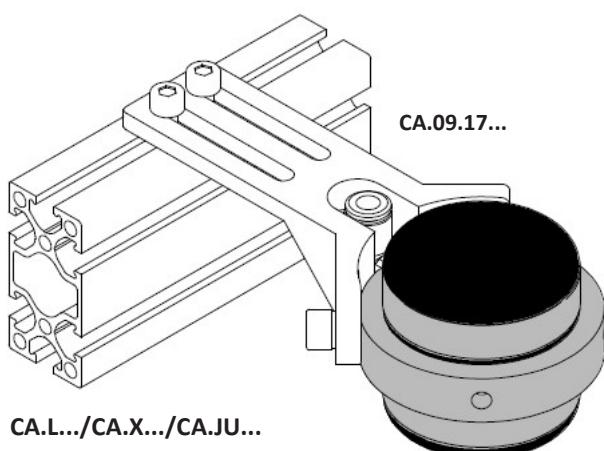
FIRESTONE

. Pinza ad espansione per esterni


Firestone


Article no.	FIRESTONE Code	Material	Working range	Maximum restricted pressure allowed	A	B	C	D	E	F	G	Weight
CA.09.13.05.15 CA.09.13.05.15.S	WP1-M58-5001 WP1-M58-5005	Neoprene (N) Silicone (S)	5-15 mm	1.5 bar 1.0 bar	19	33	40	36	10	M5	M5	60 g
CA.09.13.10.25 CA.09.13.10.25.S	WP1-M58-5002 WP1-M58-5006	Neoprene (N) Silicone (S)	10-25 mm	1.5 bar 1.0 bar	27	48	60	48	13	M6	M6	145 g
CA.09.13.15.35 CA.09.13.15.35.S	WP1-M58-5003 WP1-M58-5007	Neoprene (N) Silicone (S)	15-35 mm	1.5 bar 1.0 bar	37	58	70	52	14	M5	M6	210 g
CA.09.13.20.45 CA.09.13.20.45.S	WP1-M58-5004 WP1-M58-5008	Neoprene (N) Silicone (S)	20-45 mm	1.5 bar 1.0 bar	48	69	80	56	15	M8	G 1/8	285 g

Application example / Esempio applicativo



Remarks / Osservazioni:

Temperature resistance / Temperatura di Resistenza
 Neoprene (N)
-18° to 52° C
 Silicone (S)
-30° to 160° C

Leaving few marks / Rimanenza di segni
 (N) ☺
 (S) ☻

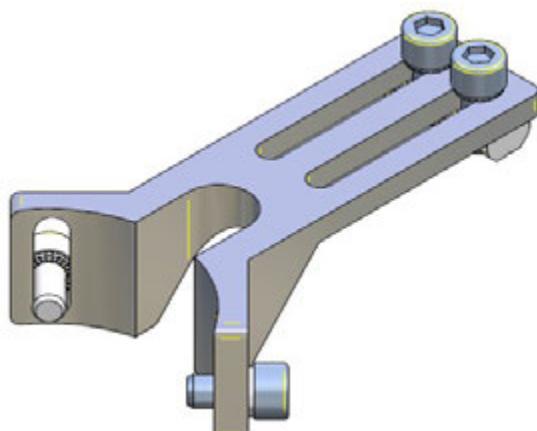
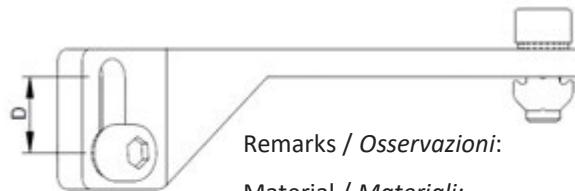
CA.09.13**FIRESTONE****. Airgripper**

Air Pressure 0 MPa

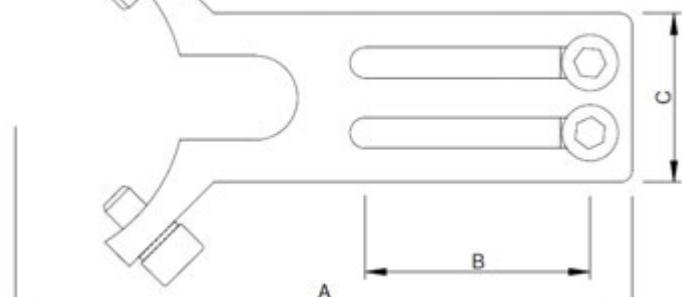
Air Pressure 0.05 MPa

. Pinza ad espansione per esterni

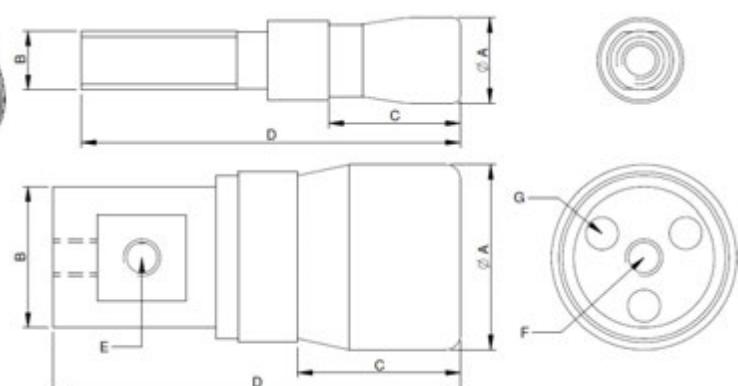
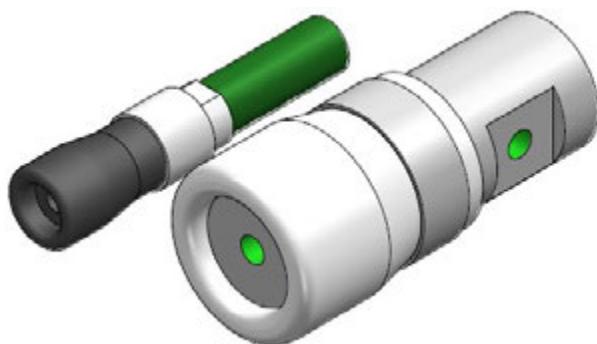
Air Pressure 0.1 MPa

**CA.09.17****. Mounting Brackets****Table / Tabella****M** = Suitable for CA.09.13...
*Applicabile ai CA.09.13...***M1**= Suitable for PROFILE..
*Applicabile a PROFILO..***. Staffa per pinza**

Remarks / Osservazioni:

Material / Materiali:
Aluminium / AlluminioSurface: Silver anodized
Superficie: Argento anodizzato

Article no.	M	M1	A	B	C	D	Weight
CA.09.17.0515.X	CA.09.13.05.15	CA.X.../CA.JU...	100	40	25	15	31 g
CA.09.17.1025.X	CA.09.13.10.25		110		30		46 g
CA.09.17.1535.X	CA.09.13.15.35		115		40		57 g
CA.09.17.2045.X	CA.09.13.20.45		120				69 g

CA.09.14
FIRESTONE
. Airpicker
. Pinza ad espansione per interni

Firestone

Article no.	FIRESTONE Code	Material	Working range	Maximum restricted pressure allowe	A	B	C	D	E	F	G	Weight
CA.09.14.06	WP1-M58-0001	Neoprene (N)	8.5-10 mm	4 bar	8	M6	17.5	51	/	M3	/	8 g
CA.09.14.07	WP1-M58-0002		10-12 mm		9.5				/		/	12 g
CA.09.14.09	WP1-M58-0003		12-17 mm		11	M8X1.25			/		/	17 g
CA.09.14.10	WP1-M58-0004		16-21 mm		14	Ø10	21	52			/	28 g
CA.09.14.14 CA.09.14.14.S	WP1-M58-0005 WP1-M58-0024	Neoprene (N) Silicone (S)	21-27 mm	5 bar 1.8 bar	19	Ø14	22	56		M5	/	60 g
CA.09.14.17 CA.09.14.17.S	WP1-M58-0006 WP1-M58-0025	Neoprene (N) Silicone (S)	24-32 mm	5 bar 1.8 bar	22	Ø17					/	85 g
CA.09.14.19 CA.09.14.19.S	WP1-M58-0007 WP1-M58-0018	Neoprene (N) Silicone (S)	28-36 mm	5 bar 1.8 bar	25	Ø19	55				/	105 g
CA.09.14.22 CA.09.14.22.S	WP1-M58-0008 WP1-M58-0026	Neoprene (N) Silicone (S)	30-44 mm	5 bar 1.8 bar	27	Ø22	28	64			/	160 g
CA.09.14.25 CA.09.14.25.S	WP1-M58-0009 WP1-M58-0019	Neoprene (N) Silicone (S)	32-52 mm	5 bar 1.8 bar	29	Ø25	34	76			/	245 g
CA.09.14.35 CA.09.14.35.S	WP1-M58-0011 WP1-M58-0028	Neoprene (N) Silicone (S)	45-65 mm	5 bar 1.8 bar	41	Ø34	42	71	G1/8	M6	/	180 g
CA.09.14.45	WP1-M58-0012	Neoprene (N)	58-85 mm	5 bar	51	Ø44	52	90			3-M6	370 g
CA.09.14.55	WP1-M58-0013		70-105 mm		63	Ø54	53	101			3-M6	610 g

Remarks / Osservazioni:

Temperature resistance / Temperatura di resistenza

Neoprene (N)

-18° to 52° C

Silicone (S)

-30° to 160° C

Leaving few marks / Rimanenza di segni

(N) ☺

(S) ☺

CA.09.14

. Airpicker

FIRESTONE

. Pinza ad espansione per interni

Air Pressure 0 MPa



Air Pressure 0.15 MPa

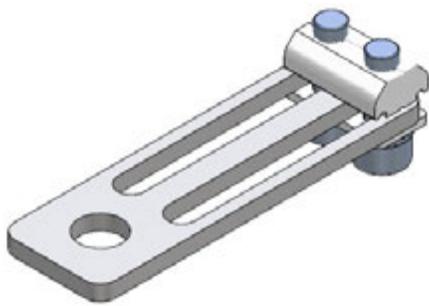


Air Pressure 0.30 MPa



CA.09.18

. Mounting Brackets

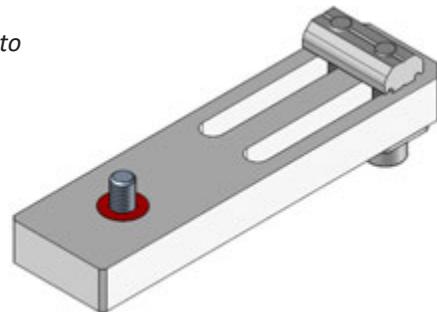


Remarks / Osservazioni:

Material / Materiale:
Aluminium / Alluminio

. Staffa per pinza

Surface: Silver anodized
Superficie: Argento anodizzato



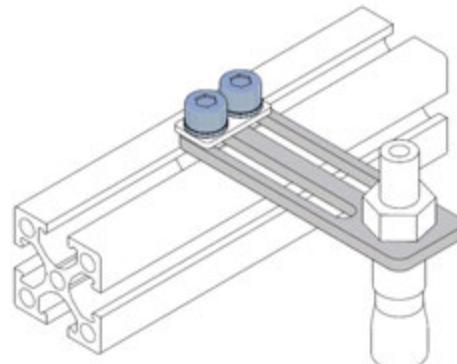
Article no.	M	M1	Weight
CA.04.20.06.X	CA.09.14.06 CA.09.14.07	CA.L.../ CA.X...	32 g
CA.04.20.08.X	CA.09.14.09		36 g
CA.09.18.1014.X	CA.09.14.10		48 g
CA.09.18.1719.X	CA.09.14.14 CA.09.14.17 CA.09.14.19	CA.X.../ CA.JU...	50 g
CA.09.18.2225.X	CA.09.14.22 CA.09.14.25		77 g
CA.09.18.35.JU	CA.09.14.35		99 g
CA.09.18.4555.JU	CA.09.14.45 CA.09.14.55		227 g

Table / Tabella

M = Suitable for CA.09.14...
Applicabile a CA.09.14...

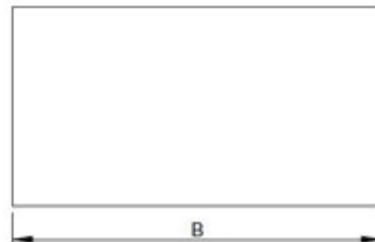
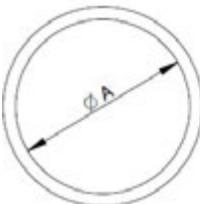
M1 = Suitable for PROFILE...
Applicabile a PROFILO...

Application example / Esempio applicativo



CA.09.15

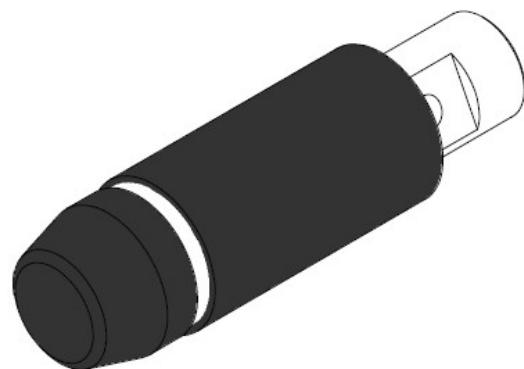
. Protective Sleeve


FIRESTONE

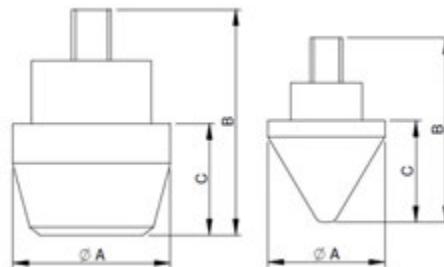
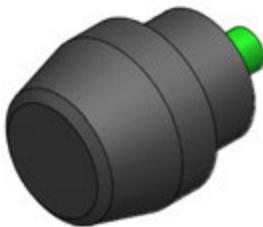
 . *Guaina protettiva per pinza*

Article no.	FIRESTONE Code	A	B	M	Weight
CA.09.15.001	WP1-358-1500	18		CA.09.14.14	
CA.09.15.002	WP1-358-1501	20	38	CA.09.14.17	
CA.09.15.003	WP1-358-1502	23		CA.09.14.19	
CA.09.15.004	WP1-358-1503	25	44	CA.09.14.22	1 g
CA.09.15.005	WP1-358-1504		27	CA.09.14.25	
CA.09.15.006	WP1-358-1505			CA.09.14.35	
CA.09.15.007	WP1-358-1506	37	73	CA.09.14.45	
CA.09.15.008	WP1-358-1507	47	79	CA.09.14.55	2 g

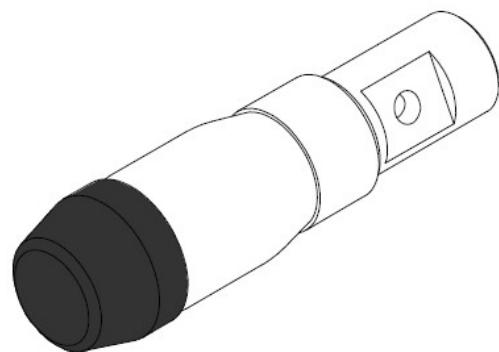
Table / Tabella

M = Suitable for CA.09.14...
Applicabile a CA.09.14...

CA.09.16
Firestone

. Nose Cones


 . *Punta conica per pinza*

Article no.	FIRESTONE Code	A	B	C	M	Weight
CA.09.16.001	WP1-358-1006	14.7	23.1	12.7	CA.09.14.10	3 g
CA.09.16.002	WP1-358-1016	19.8			CA.09.14.14	5 g
CA.09.16.003	WP1-358-1017	22.9	28.3		CA.09.14.17	
CA.09.16.004	WP1-358-1018	27.9		14	CA.09.14.19	6 g
CA.09.16.005	WP1-358-1019	28.7	29.3		CA.09.14.22	7 g
CA.09.16.006	WP1-358-1020	29.7			CA.09.14.25	8 g
CA.09.16.007	WP1-358-1021	42.7			CA.09.14.35	10 g
CA.09.16.008	WP1-358-1022	51.6	32.6	17.3	CA.09.14.45	12 g
CA.09.16.009	WP1-358-1023	63.8			CA.09.14.55	14 g



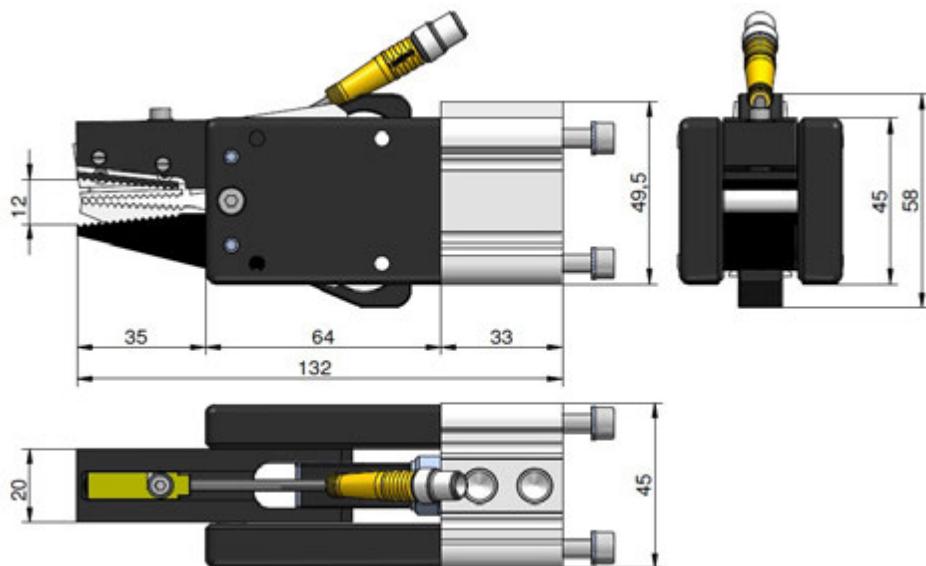
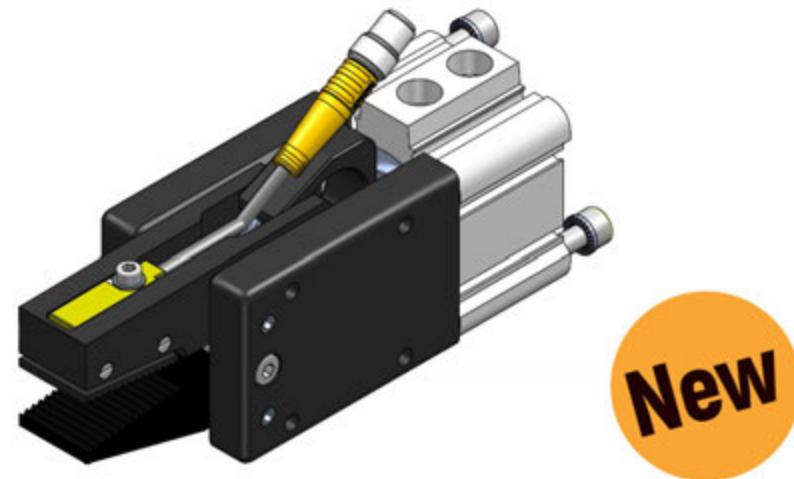
Notes/*Note*

CA.09 GZ

. Gripper high grip force

GZ

. Pinza ad alta forza di presa



Article no.	Closing force (at 6 bar)	Weight
CA.GZ.32.S	350 N	226 g



Article no.
CA.GZ.32.FING.S

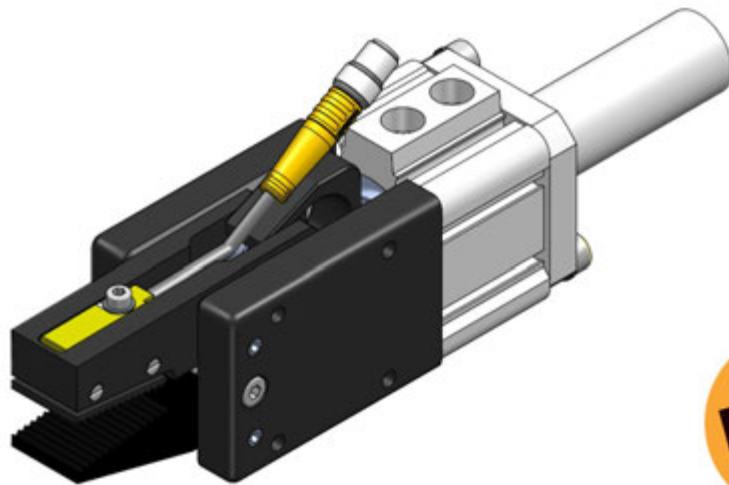


CA.09 GZ

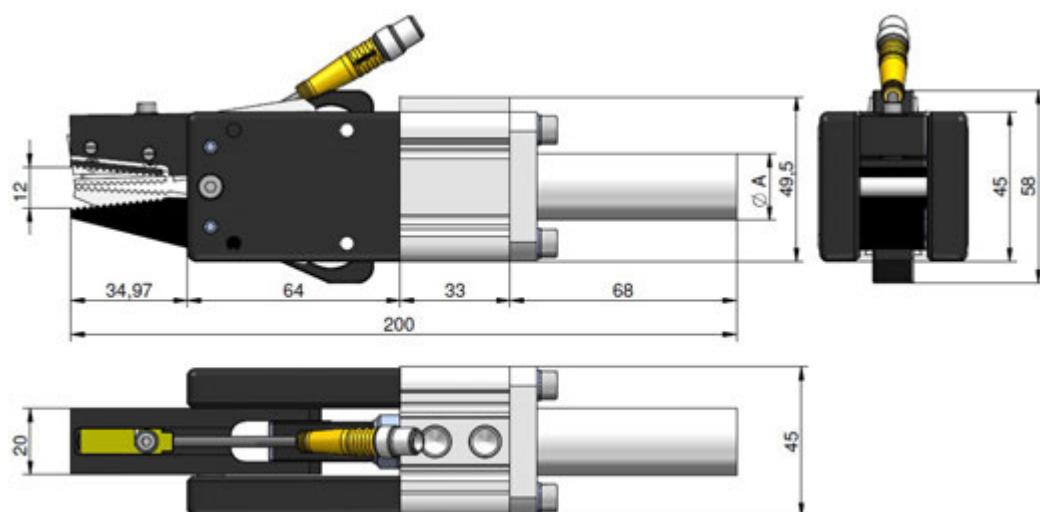
. Gripper high grip force

GZ

. Pinza ad alta forza di presa



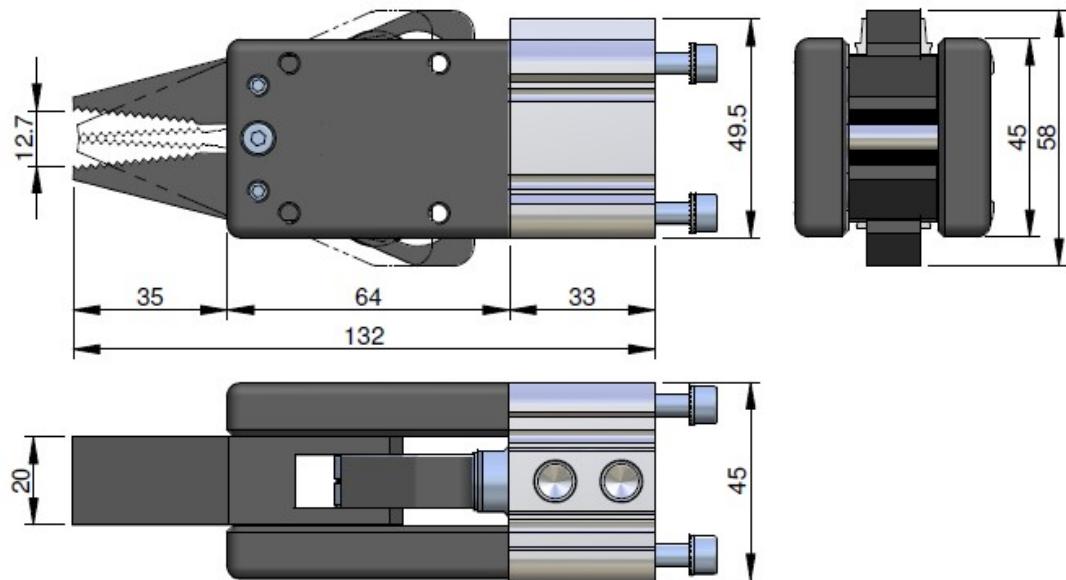
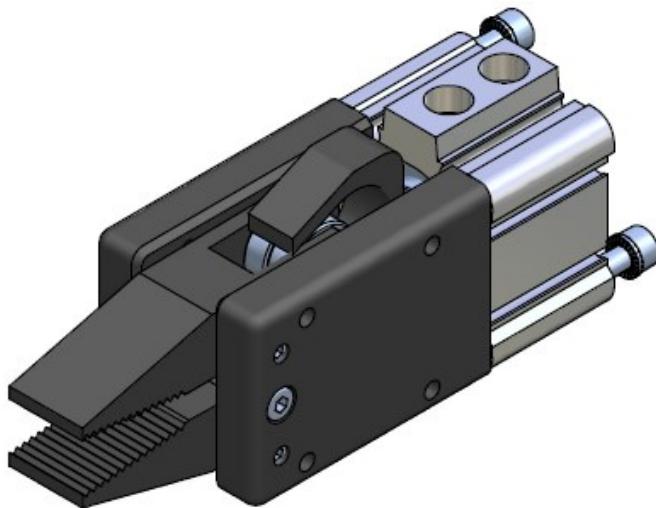
New



Article no.	Closing force (at 6 bar)	A	Weight
CA.GZ.3220.S	350 N	20	281 g

CA.09 GZ
GZ

. Gripper high grip force

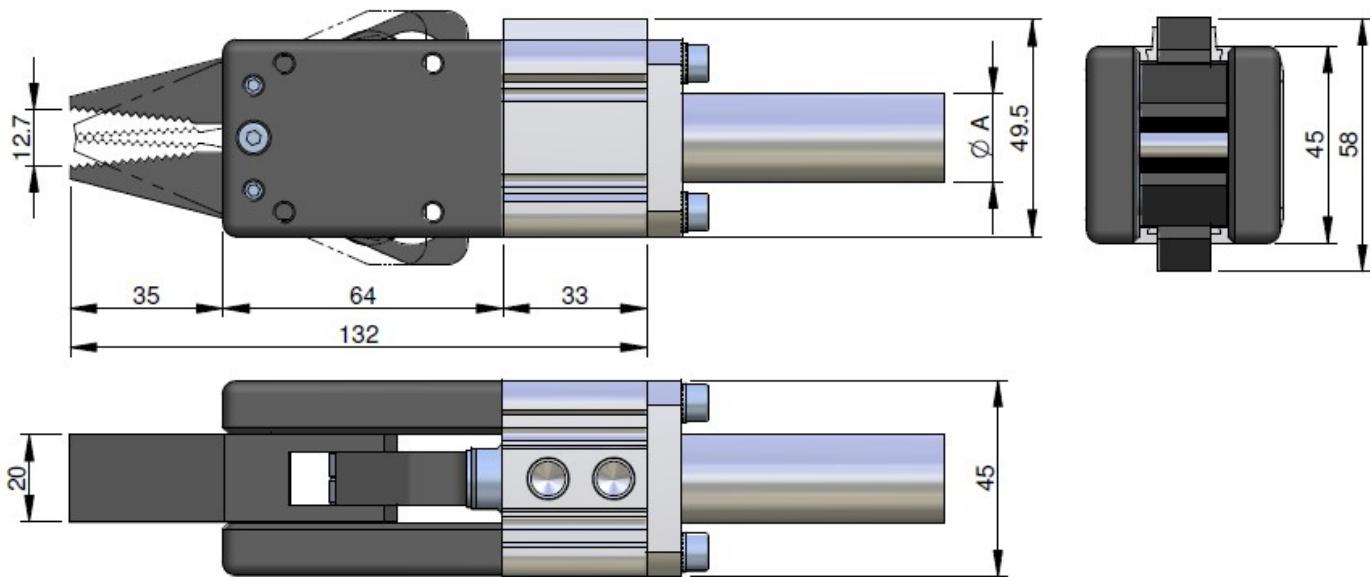
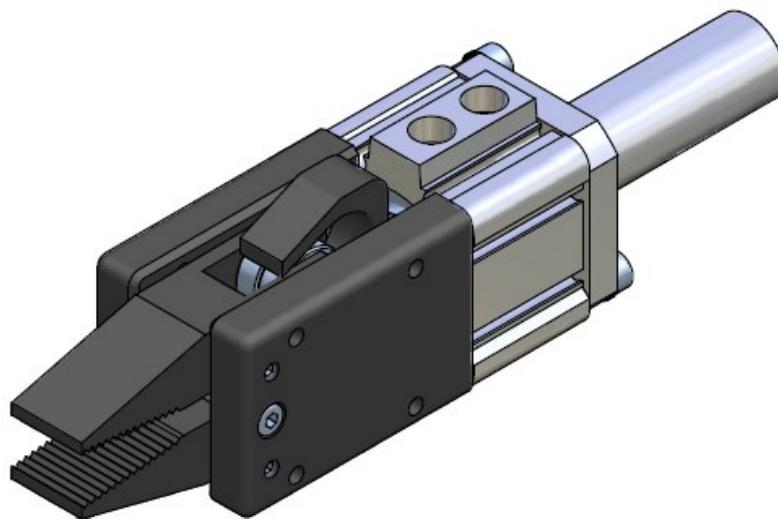
 . *Pinza ad alta forza di presa*


Article no.	Closing force (at 6 bar)	Weight
CA.GZ.32	350 N	509 g

CA.09 GZ**GZ**

. Gripper high grip force

. Pinza ad alta forza di presa

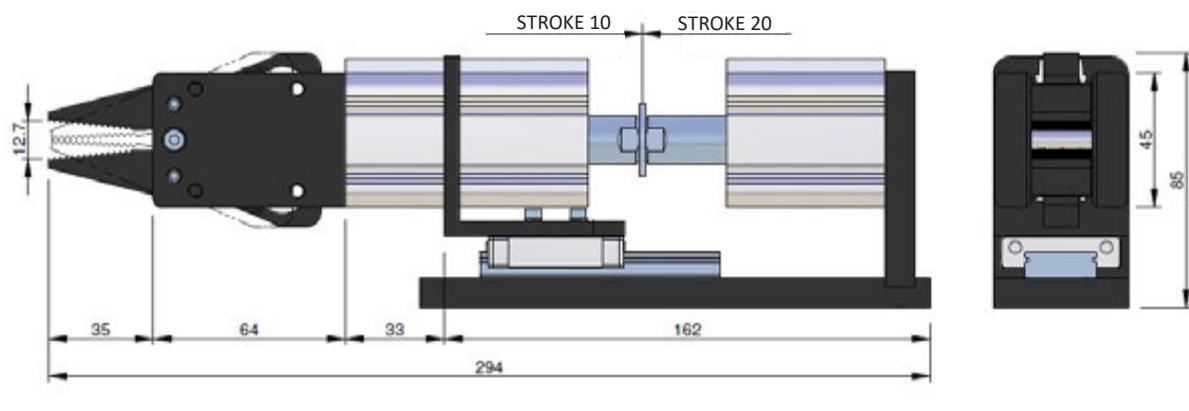
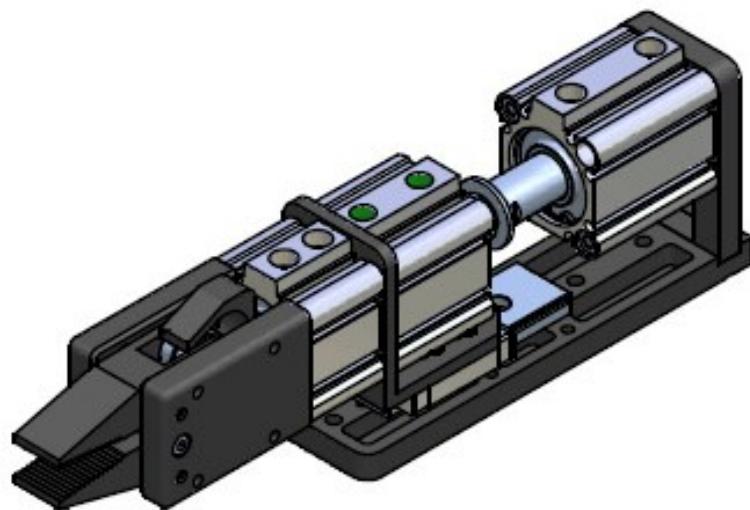


Article no.	Closing force (at 6 bar)	A	Weight
CA.GZ.3220	350 N	20	563 g
CA.GZ.3225		25	591 g

CA.09 GZ
GZ

. Gripper high grip force with double stroke

. Slitta doppia corsa con pinza

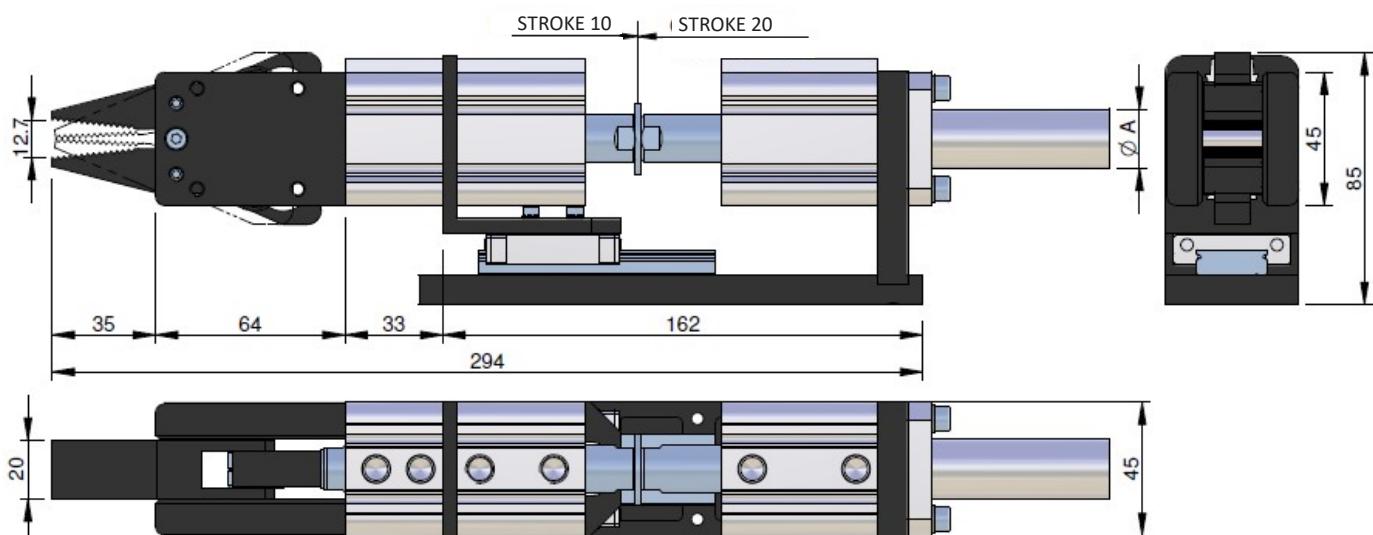
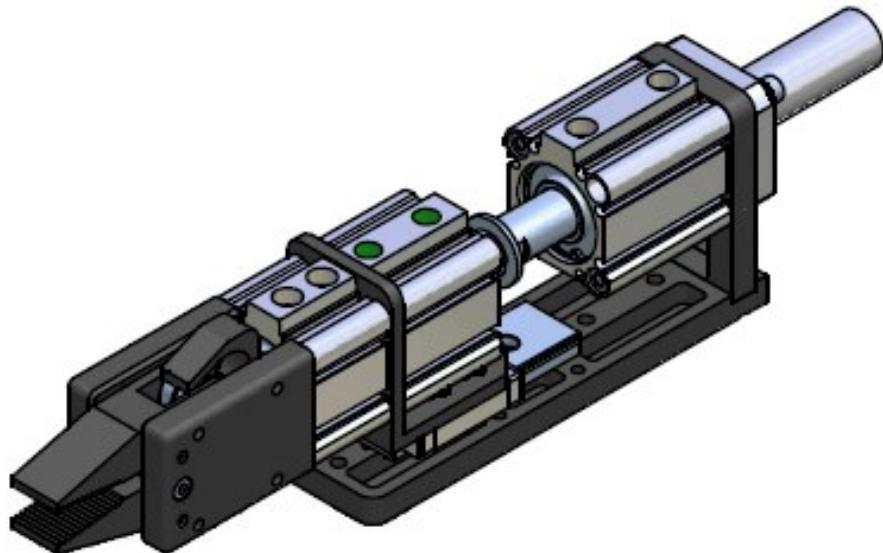


Article no.	Closing force (at 6 bar)	Weight
CA.GZ.322010	350 N	1400 g

CA.09 GZ**GZ**

. Gripper high grip force with double stroke

. Slitta doppia corsa con pinza

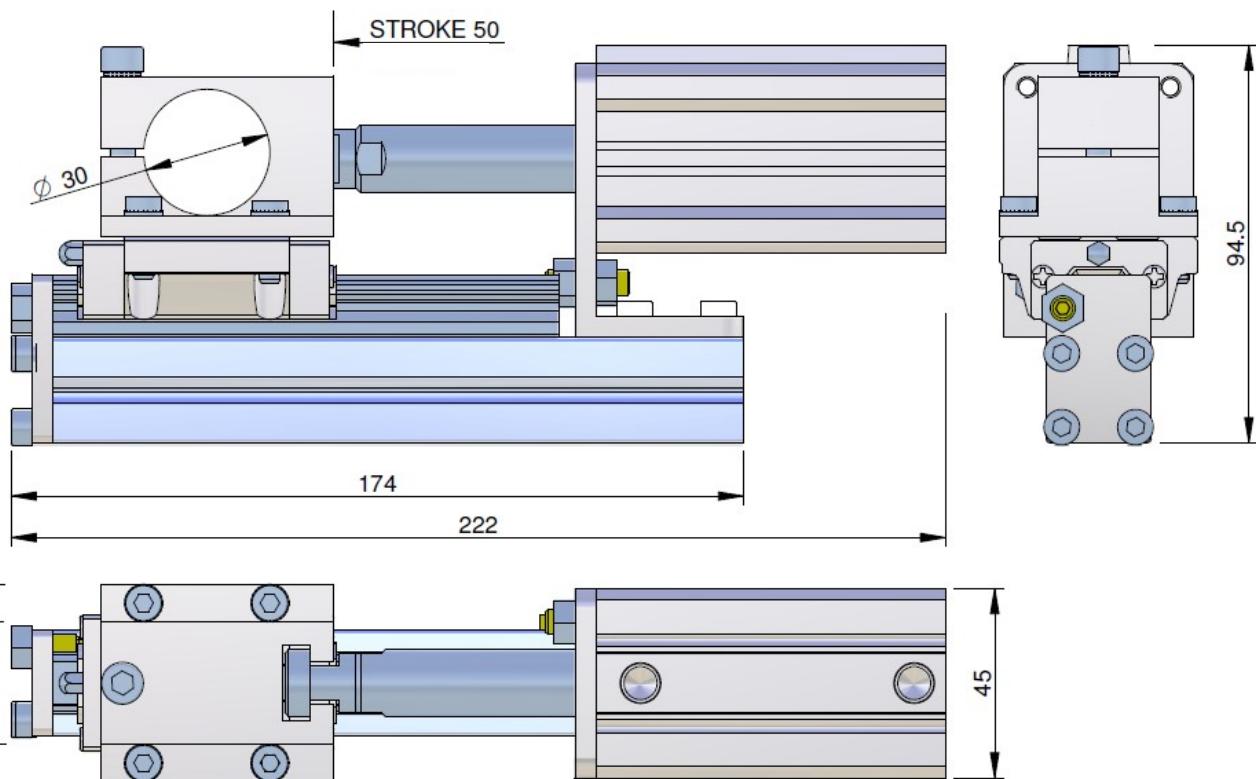
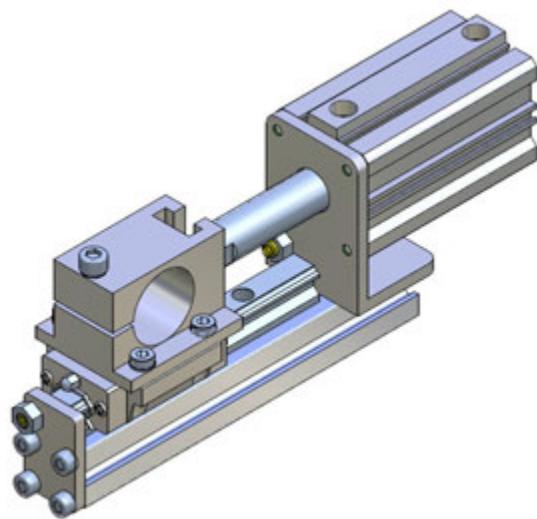


Article no.	Closing force (at 6 bar)	A	Weight
CA.GZ.32201020	350 N	20	1455 g
CA.GZ.32201025		25	1485 g

CA.09 HEH
HEH

. Linear Stroke Unit

. Slitta per pinza



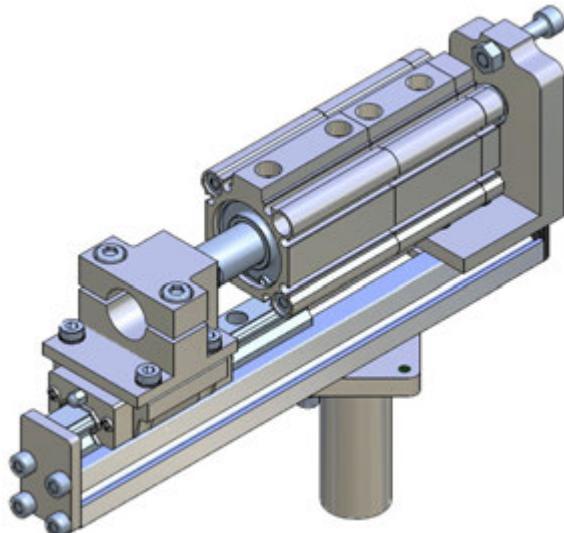
Article no.	Weight
CA.HEH.30.50	1052 g

CA.09 UDHE

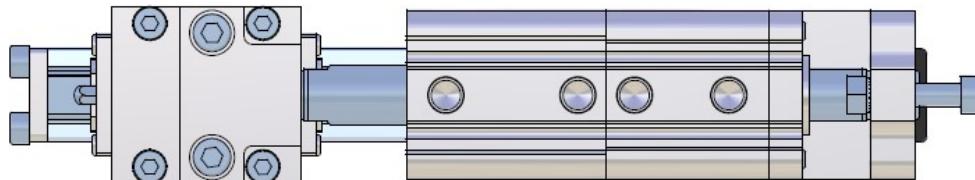
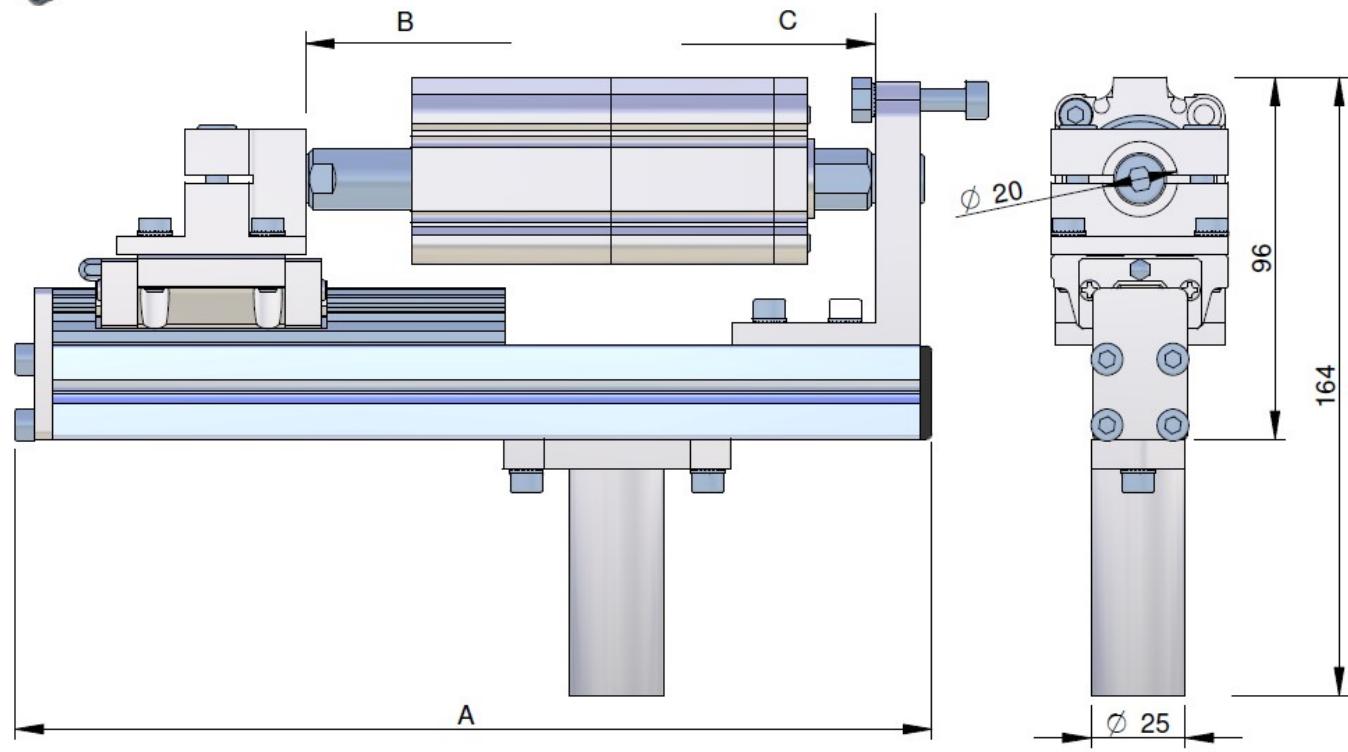
UDHE

. Double Stroke Unit

. Slitta universale con doppia corsa



Article no.	A	B	C
CA.UDHE.32102020	243	20	10
CA.UDHE.32203020	283	30	20

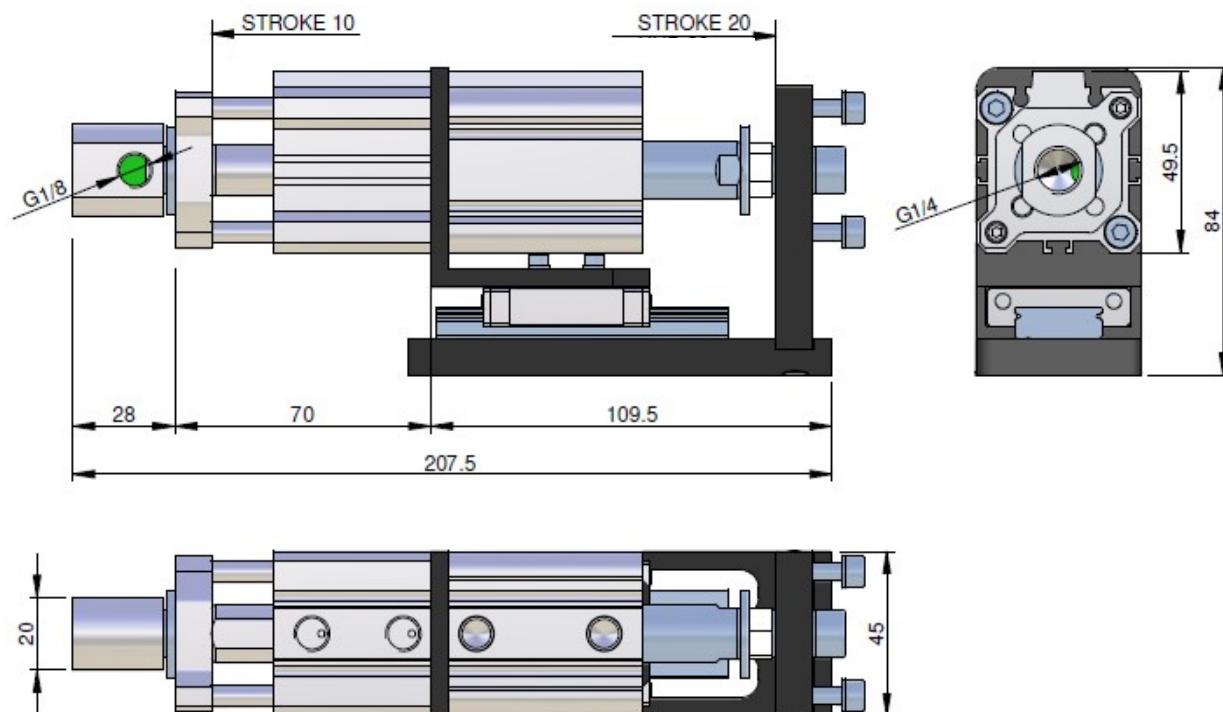
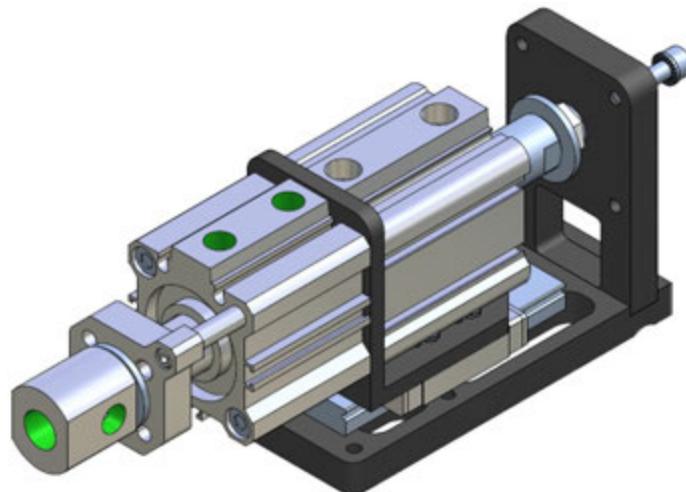


Article no.	Weight
CA.UDHE.32102020	1375 g
CA.UDHE.32203020	1455 g

CA.09 BVAE
BVAE

- Movable vacuum unit BVAE32 with guided double stroke**

- . Slitta doppia corsa per ventosa*

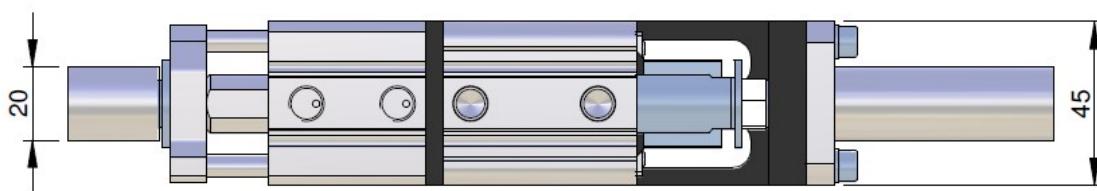
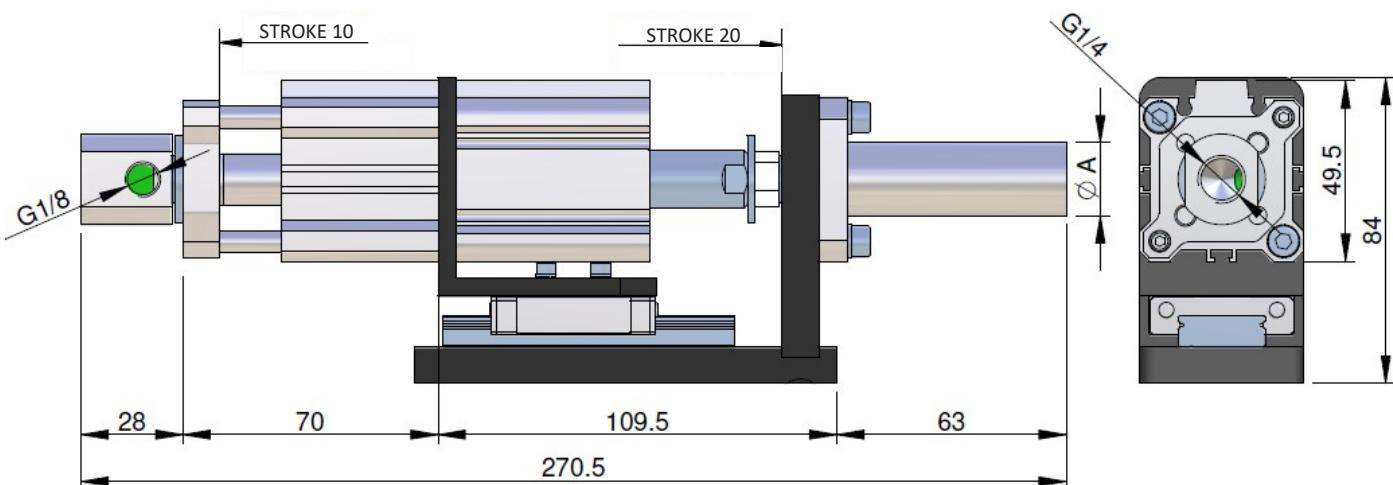
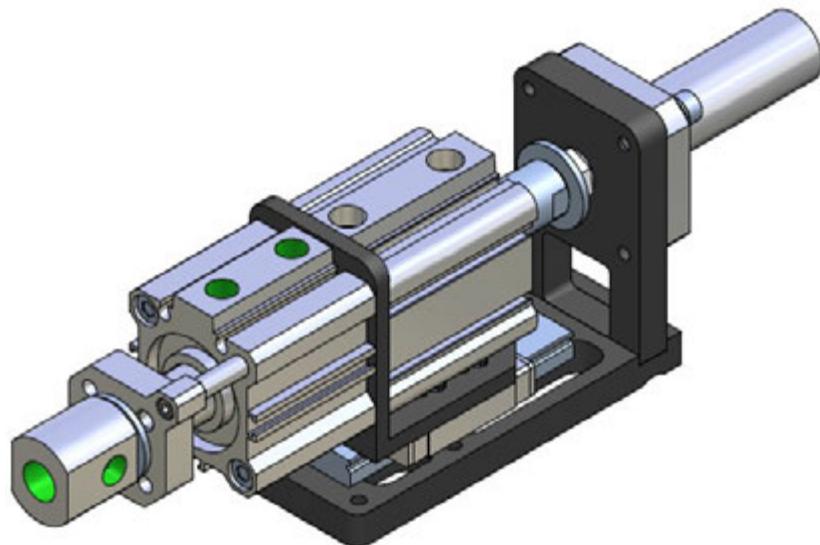


Article no.	Weight
CA.BVAE.322010	988 g

CA.09 BVAE**BVAE**

- Movable vacuum unit BVAE32
with guided double stroke

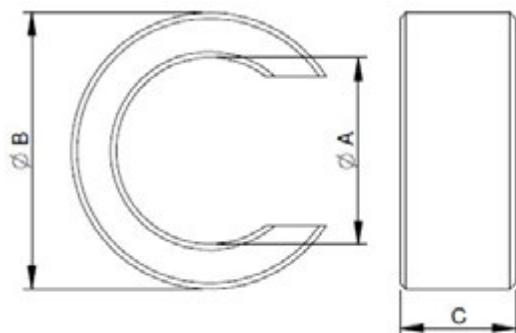
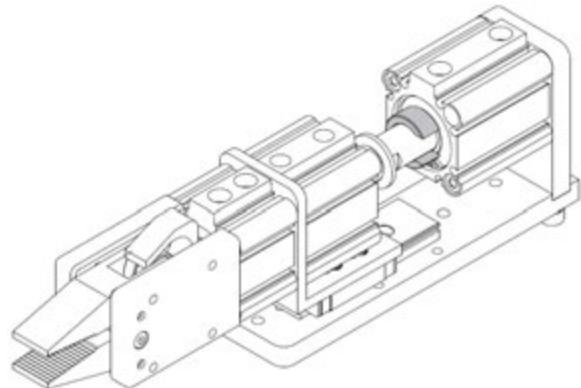
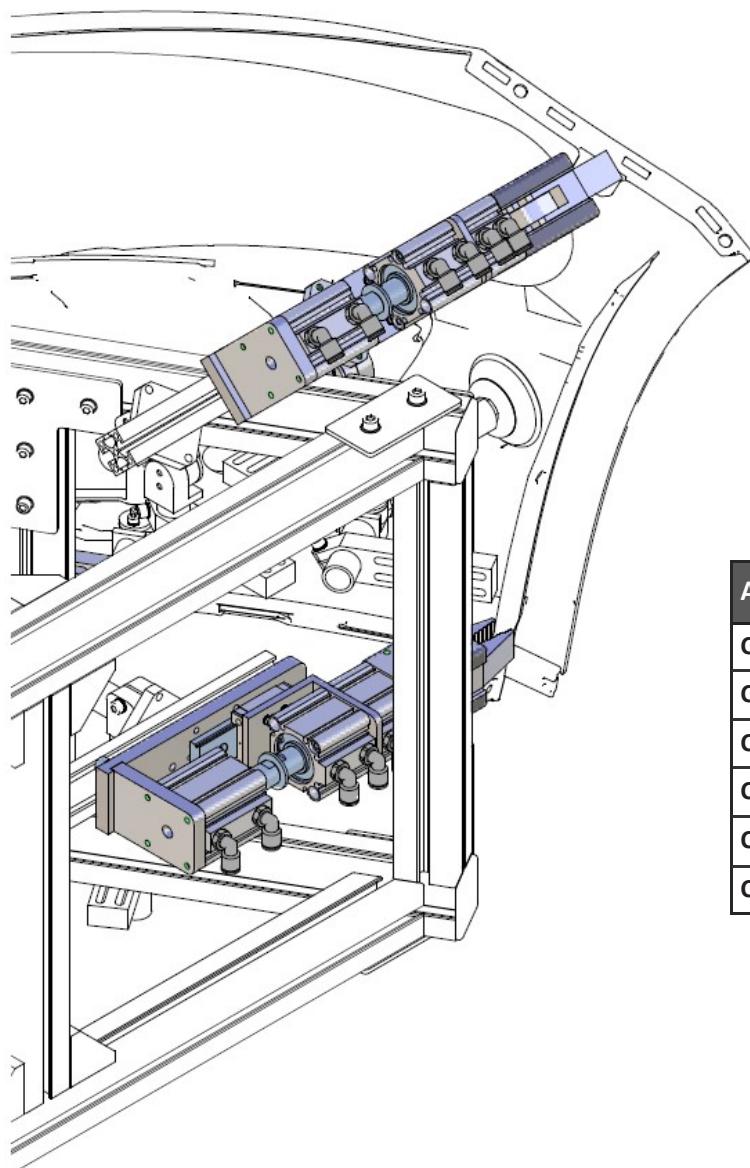
- . Slitta doppia corsa per ventosa*



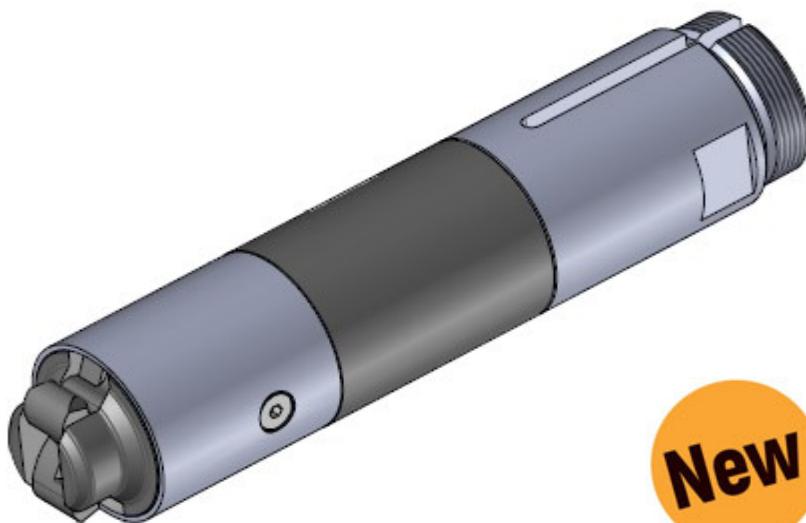
Article no.	A	Weight
CA.BVAE.32201020	20	1043 g
CA.BVAE.32201025	25	1073 g

CA.09 DB
GZ
. Stroke Reducer


Table / Tabella
M = Suitable for GZ-11.17 ...
 Applicabile a GZ-11.17...

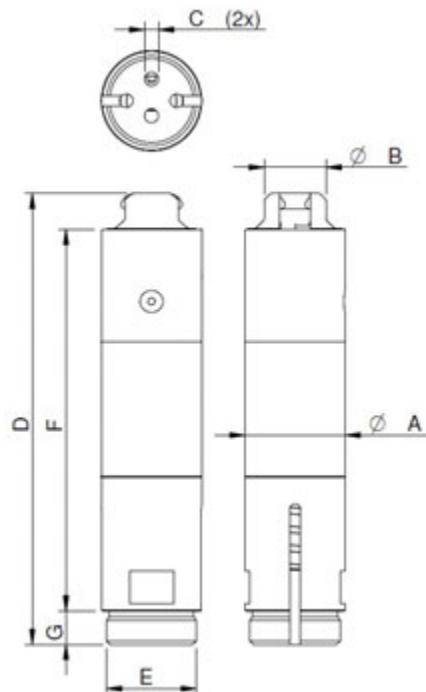
. Anello di riduzione corsa

Application example / Esempio applicativo


Article no.	A	B	C	M	Weight
CA.DB.05.25			5		1 g
CA.DB.10.25	12	20	10	Ø25	2 g
CA.DB.15.25			15		4 g
CA.DB.05.32			5		1 g
CA.DB.10.32	16	24	10	Ø32	2 g
CA.DB.15.32			15		3 g

CA.09 AGP*. Kopplungsgreifer*

New

PATENT PENDING*



Article no.		A	B	C	D	E	F	G	Weight
CA.AGP.20.G.GM	Gripper side	Ø20	Ø11.7	M3	97	M17x1	81.5	7.85	116 g
CA.AGP.30.G.GM	Gripper side	Ø30	Ø18.5	M5	134.7	M27x1	114	10	377 g

Remarks / Osservazioni:

Single acting / *Effetto pneumatico semplice*
The central blocking unit has an exact repeatability
L'unità centrale di bloccaggio fornisce l'esatta ripetibilità.

High gripping force / *Alta forza di presa*

Compact unit / *Taglia compatta*

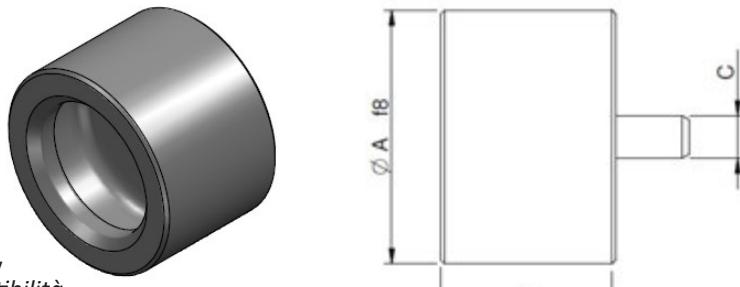
ISO H7 tolerance is used for positioning
Uso tolleranza H7 per l'inserimento nel pezzo.

With a teachable sensor, the locked and unlocked state is sensed

Con un sensore regolabile, gli stati chiuso e aperto sono controllati.

CLOSING FORCE AT 6 BAR 750 N

FORZA DI CHIUSURA A 6 BAR 750 N



New

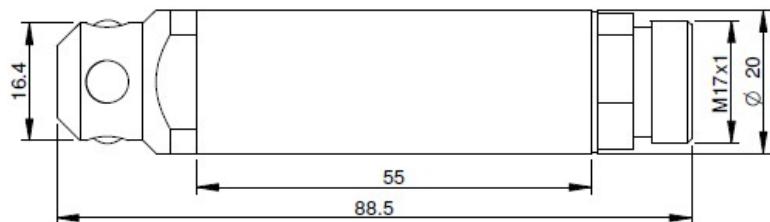
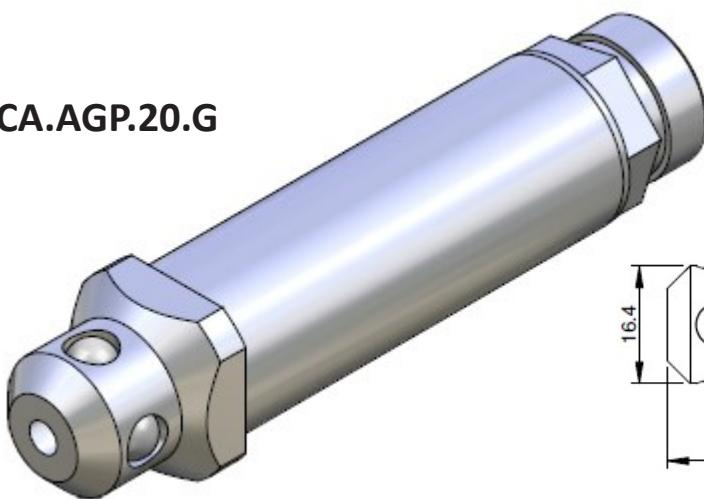
*102019000010569

CA.09 AGP

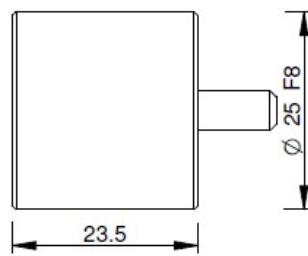
. Centering locking unit

. Pinza per aggancio e centraggio

CA.AGP.20.G



CA.AGP.20.M



Application example / Esempio applicativo

Remarks / Osservazioni:

Single acting / Effetto pneumatico semplice
 The central blocking unit has an exact repeatability.
L'unità centrale di bloccaggio fornisce l'esatta ripetibilità.

High gripping force / Alta forza di presa

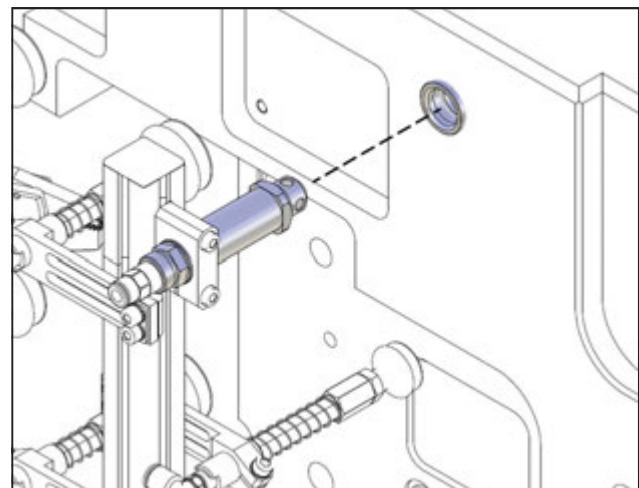
Compact unit / Taglia compatta

ISO H7 tolerance is used for positioning
Uso tolleranza H7 per l'inserimento nel pezzo.

With a teachable sensor, the locked and unlocked state is sensed
Con un sensore regolabile, gli stati chiuso e aperto sono controllati.

CLOSING FORCE AT 6 BAR 750 N

FORZA DI CHIUSURA A 6 BAR 750 N



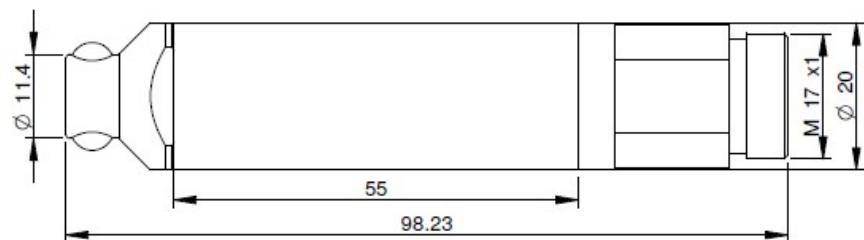
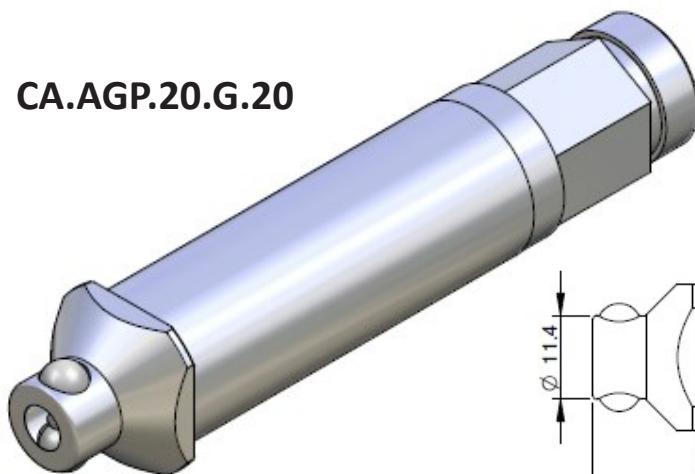
Article no.		Weight
CA.AGP.20.G	Gripper side	93 g
CA.AGP.20.M	Mould side	60 g

CA.09 AGP

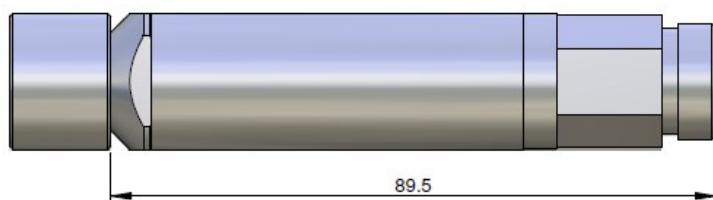
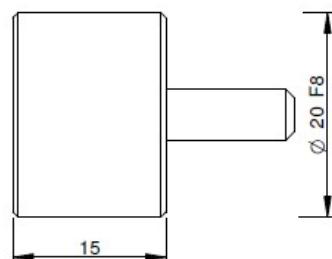
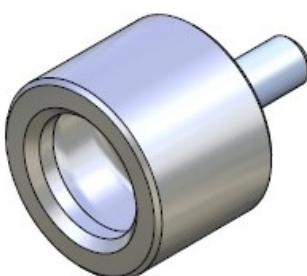
. Centering locking unit

. Pinza per aggancio e centraggio

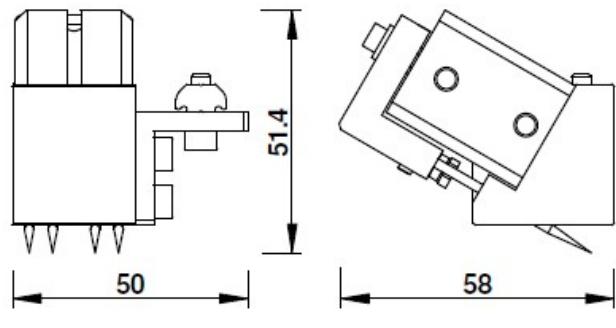
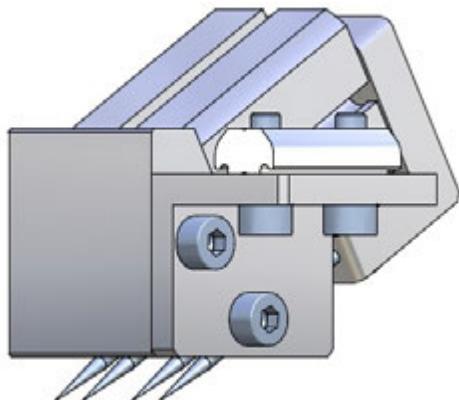
CA.AGP.20.G.20



CA.AGP.20.M.20



Article no.		Weight
CA.AGP.20.G.20	Gripper side	66 g
CA.AGP.20.M.20	Mould side	30 g

CA.09 PAA
. Needle gripper
. Pinza ad aghi


Article no.	Weight
CA.PAA.AP	
CA.PAA.AP.D	135 g

Remarks / Osservazioni:

Needle grippers are designed for picking up textile, cloth, carpet, or any other material that can be penetrated

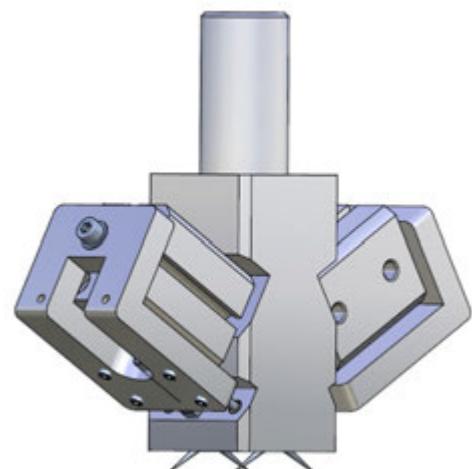
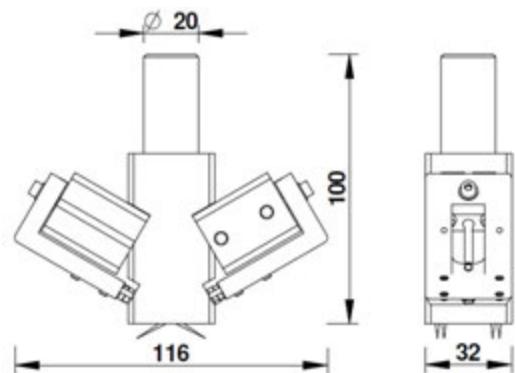
Designed for installation on our X Profile

Maximum air pressure is 6 bar

Le pinze ad aghi sono progettate per raccogliere tessili , stoffa , moquette, o qualsiasi altro materiale che può essere penetrato

Disegnate per essere installate sui nostri profili X

Massima pressione 6 bar

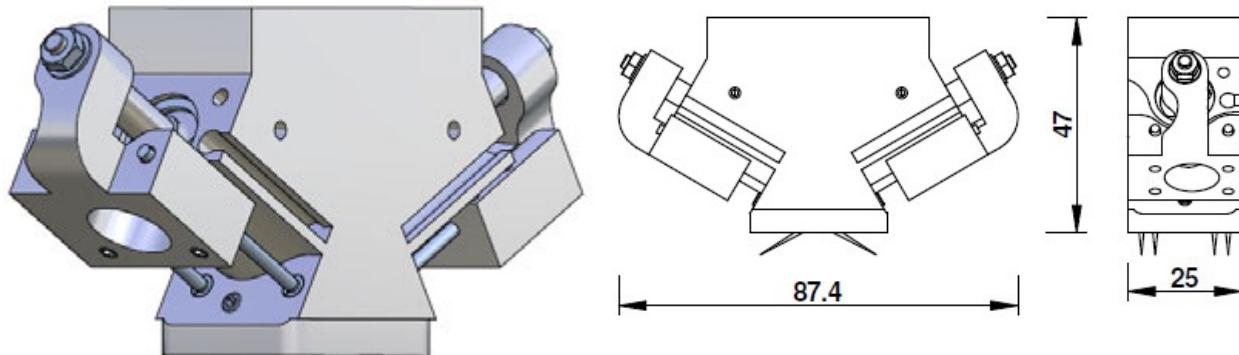


Article no.	Weight
CA.PAA.CF	
CA.PAA.CF.D	320 g

CA.09 PAA

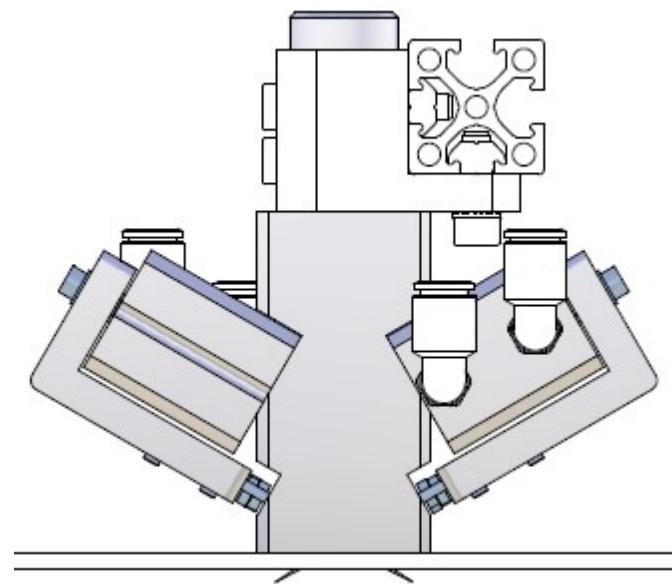
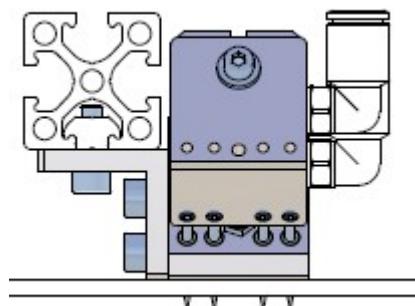
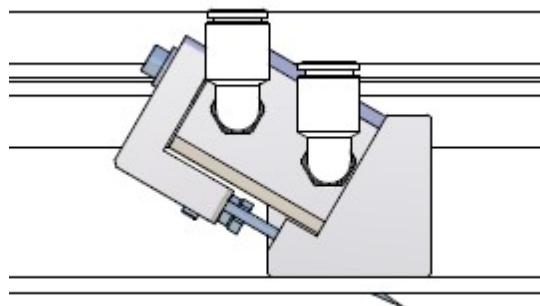
. Needle gripper

. Pinza ad aghi



Article no.	Weight
CA.PAA.SP	132 g

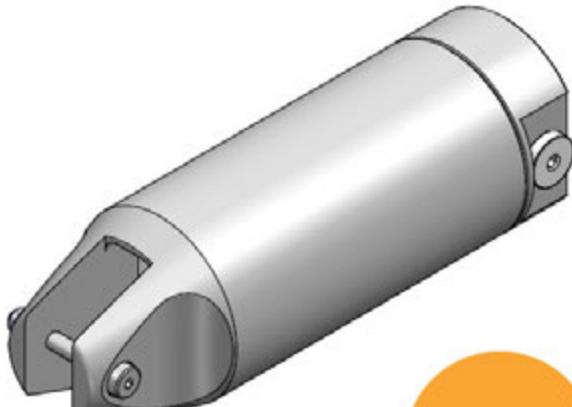
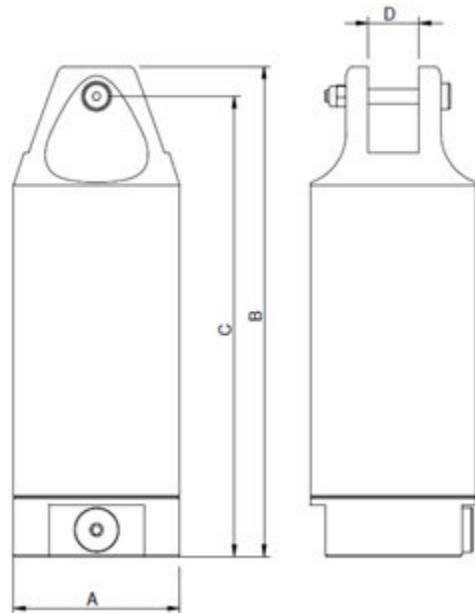
Application examples / Esempi applicativi



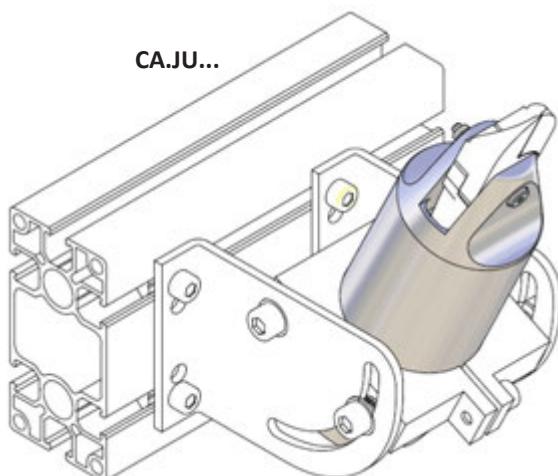
CA.10.FP
. ATE

. Air nipper actuators

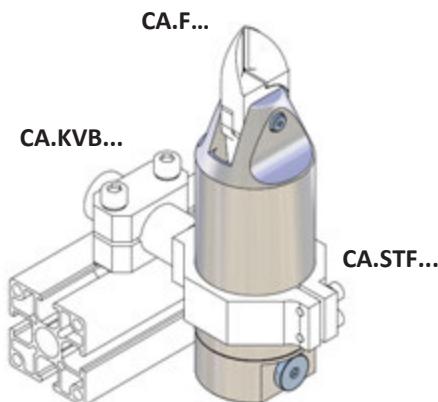
. Attuatore pneumatico

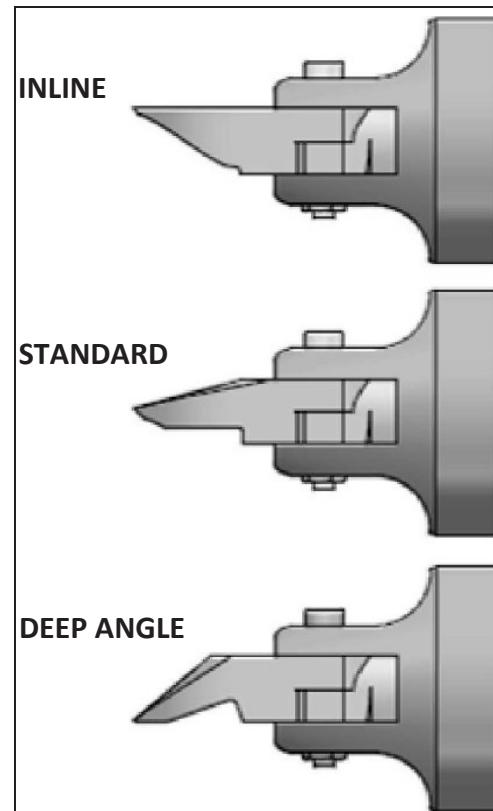
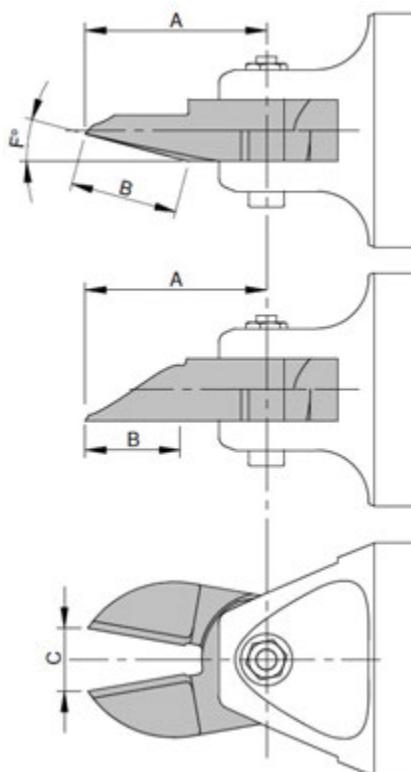

New


Article no.	Closing force each blade	Cycle air consumption	Weight
CA.ATE.05M	11 Nm	64 cm ³	97 g
CA.ATE.10M	38 Nm	116 cm ³	147 g
CA.ATE.20M	67 Nm	230 cm ³	255 g
CA.ATE.30AM	150 Nm	584 cm ³	452 g
CA.ATE.50AM	116 Nm	1170 cm ³	911 g

Application examples / Esempi applicativi

CA.04.10...

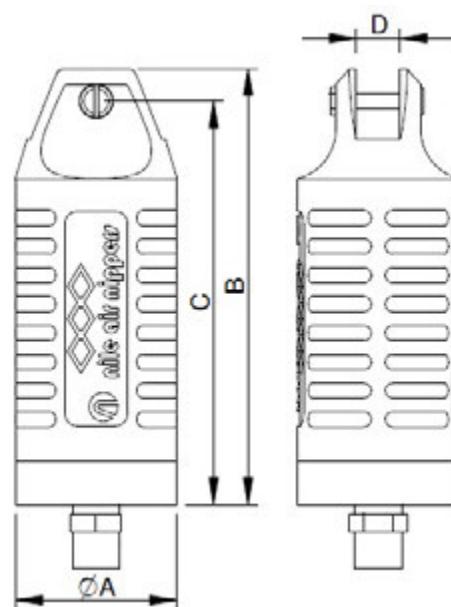
Article no.	A	B	C	D
CA.ATE.05M	30	94.3	87	7.1
CA.ATE.10M	36	114.5	107.8	12
CA.ATE.20M	45	129	119.8	
CA.ATE.30AM	56	165	155	17
CA.ATE.50AM	75	181	172	

CA.X.../CA.JU...


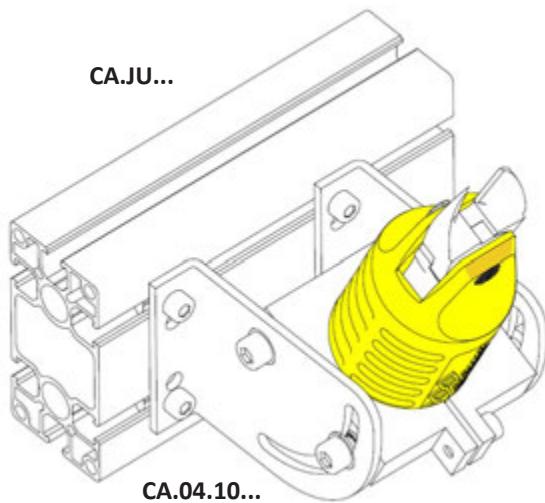
CA.10.VES**. VES****. Blades****. Lama**

Article no.	Nipper	Style	A	B	C	F*	
VES.N5AP	CA.ATE.05	Standard	24	11.5	4	15	40 g
VES.N10LAP			27			30	
VES.N10LPF	CA.ATE.10	Deep angle	35	13.5	5	40	120 g
VES.N20AP				16		15	
VES.N20AJ	CA.ATE.20	Inline	18	11	/	125 g	125 g
VES.N20AJL							
VES.N20PF		Deep angle	65	20	16	/	230 g
VES.N30AP	CA.ATE.30 CA.ATE.50	Standard	35	13.5	11	40	130 g
VES.N30AJ		Inline	66	38	16	15	380 g
VES.N30AJL			52	28	11	/	370 g
VES.N30PF		Deep angle	75	25	19	/	470 g

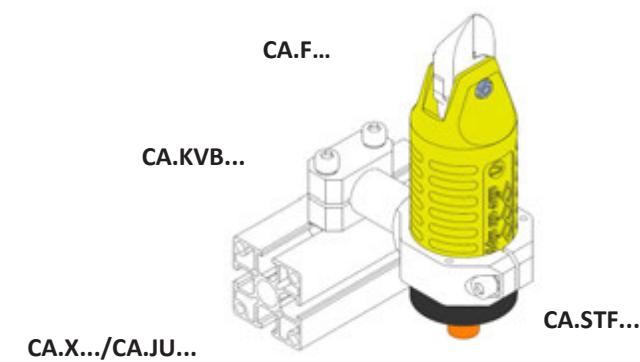
Complete line of Vessel's blade is online in www.fpservices.it

CA.10.MR
. MR
. Air npper actuators


Article no.	Closing force each blade	Cycle air consumption	Weight
CA.MR.05M	11 Nm	41 cm ³	100 g
CA.MR.10M	38 Nm	105 cm ³	160 g
CA.MR.20M	67 Nm	268 cm ³	270 g
CA.MR.30AM	150 Nm	631 cm ³	470 g
CA.MR.50AM	116 Nm	1285 cm ³	1040 g

Application example / Esempio applicativo


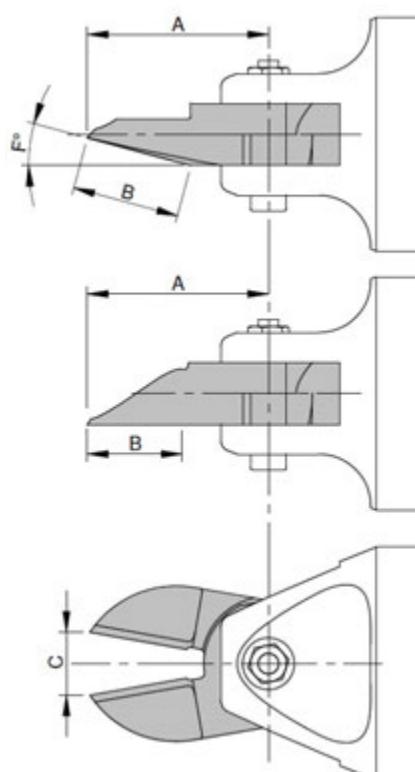
Article no.	A	B	C	D
CA.MR.05M	30	84	75	9.25
CA.MR.10M	36	105	96	
CA.MR.20M	45	121	112	12.15
CA.MR.30AM	56	157	147.75	17.10
CA.MR.50AM	75	173	164.25	25.10



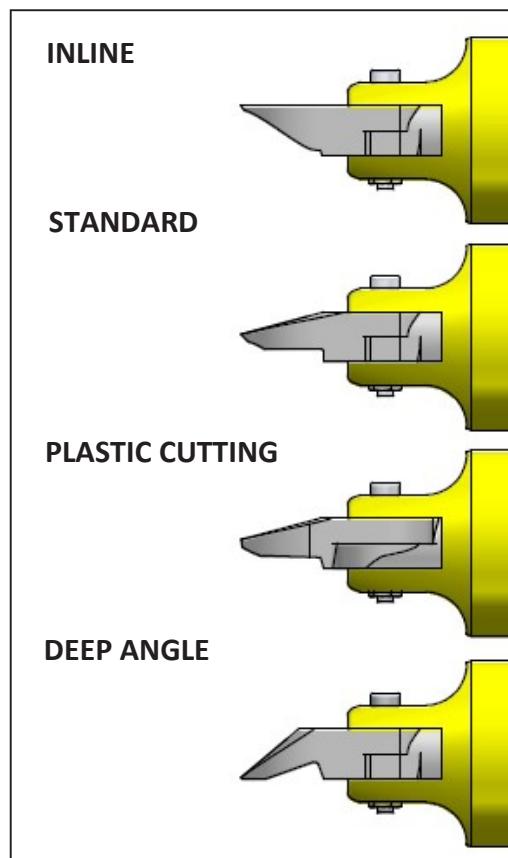
CA.10.F

. F

. Blades



. Lama



Article no.	Nipper	Blade style	A	B	C	F°	Weight
CA.F1S	CA.MR.05M	Inline	24	12	3	/	33 g
CA.S2		Standard				25	
CA.F1		Plastic cutting				15	
CA.FD1		Deep angle	24	10		40	35 g
CA.F3LS	CA.MR.10M	Long Inline	50	30	8	/	117 g
CA.S4		Standard	27	14	5	25	115 g
CA.F3		Plastic cutting		12			
CA.FD3		Deep angle		10		40	112 g
CA.F5S	CA.MR.20M	Inline	35	16	10	/	121 g
CA.S5		Standard		17	8	30	120 g
CA.F5		Plastic cutting		15	10	15	
CA.FD5		Deep angle		14		40	124 g
CA.F5LS	CA.MR.30AM	Long inline	65	37	15	/	220 g
CA.F9PS		Inline	66		16	/	365 g
CA.S7P		Standard	43	20	8	30	380 g
CA.F9P		Plastic cutting	66	38	16	16	
CA.FD9P		Deep angle	59	27	15	30	388 g
CA.S120	CA.MR.50AM	Standard	45	22	10		380 g

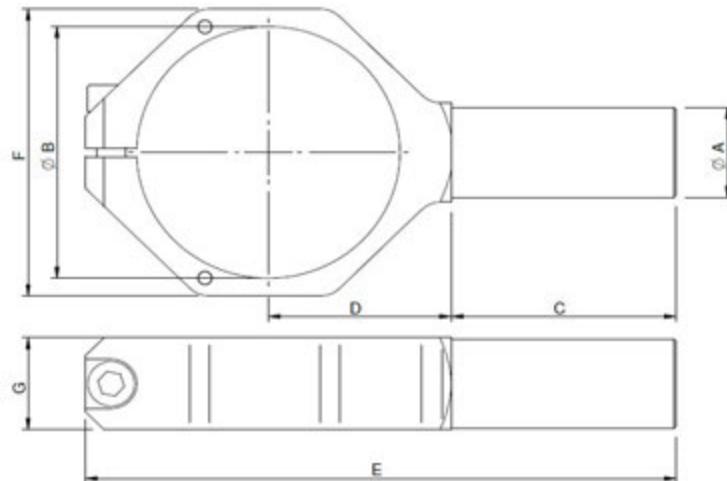
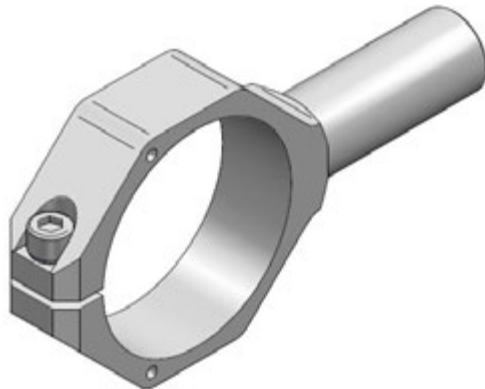
CA.STF
. MR
. Mounting Brackets MR
. Staffa per attuatore MR


Table / Tabella

M = Suitable for CA.MR.../CA.ATE...
Adatto per CA.MR.../CA.ATE...

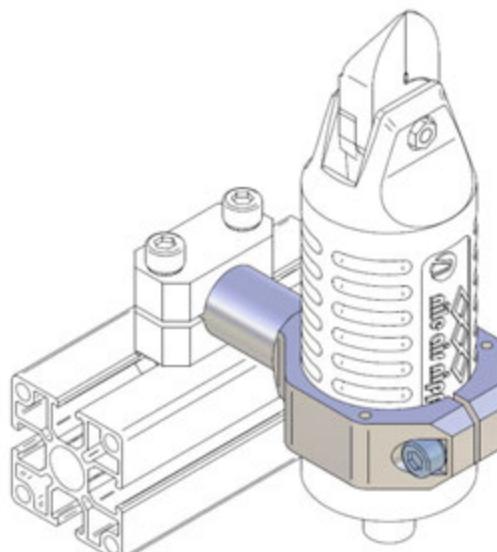
Remarks/ Osservazioni:

Material / Materiale:
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato

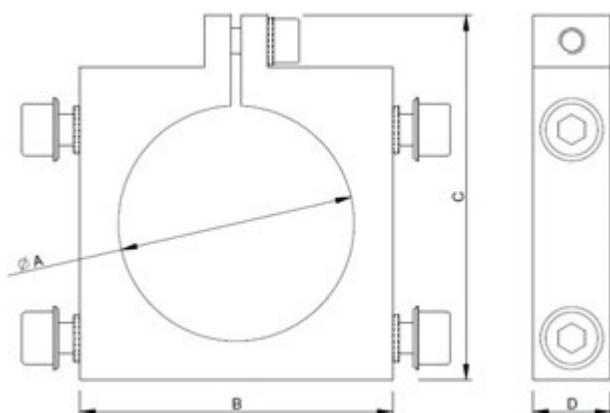
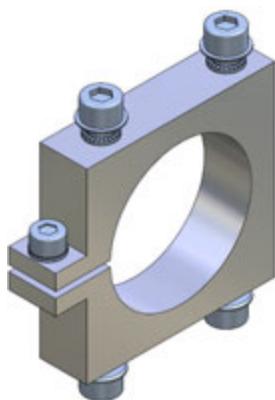
Article no.	Old code	A	B	C	D	E	F	G	M	Weight
CA.STF.30	CA.04.10.30	20	30	48	25	101.5	38	20	MR.05 / ATE.05	91 g
CA.STF.36	CA.04.10.36		36		28	107.5	43		MR.10 / ATE.10	95 g
CA.STF.45	CA.04.10.45		45		33	116	52		MR.20 / ATE.20	102 g
CA.STF.56	CA.04.10.56		56		38	127.5	54		MR.30 / ATE.30	117 g
CA.STF.75	CA.04.10.75	30	75	50	47	146	83	30	MR.50 / ATE.50	275 g

Application example / Esempio applicativo


CA.MR.../ CA.ATE...
CA.X.../CA.JU...

CA.04.10

. MR

. Swivel Bracket MR

Article no.	A	B	C	D	M	Weight
CA.04.10.30.1	30	45	55	15	MR.05 / ATE.05	87 g
CA.04.10.36.1	36	50	62		MR.10 / ATE.10	97 g
CA.04.10.45.1	45	60	70		MR.20 / ATE.20	115 g
CA.04.10.56.1	56	70	85		MR.30 / ATE.30	136 g
CA.04.10.75.1	75	90	105		MR.50 / ATE.50	188 g

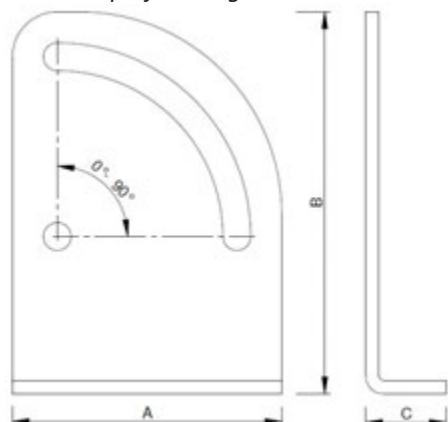
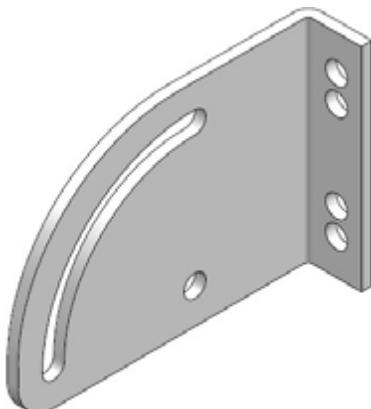
Table / Tabella

M = Suitable for CA.MR.../ CA.ATE...
Adatto per CA.MR.../CA.ATE...

Remarks / Osservazioni:

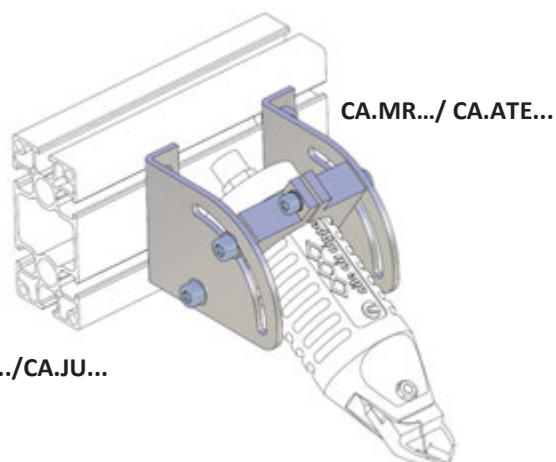
Material / Materiali:
 Aluminium / Alluminio

Surface silver anodized
Superficie: Argento anodizzato



Article no.	A	B	C	M	Weight
CA.04.10.30.2	50	75	18	MR.05 / ATE.05	84 g
CA.04.10.36.2	55	80		MR.10 / ATE.10	100 g
CA.04.10.45.2	60	85		MR.20 / ATE.20	116 g
CA.04.10.56.2	65	90		MR.30 / ATE.30	134 g
CA.04.10.75.2	85	122		MR.50 / ATE.50	246 g

Application example / Esempio applicativo

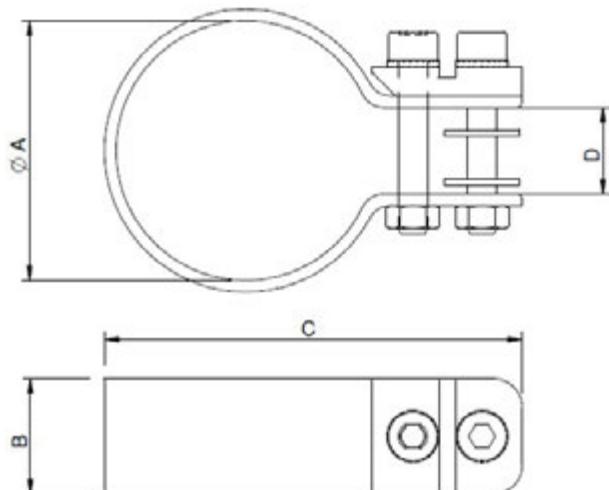


Remarks / Osservazioni:

Material : Zinc plated steel
Materiale: acciaio zincato

CA.X.../CA.JU...

CA.04.10
MR
. Mounting Brackets MR

. Staffa per attuatore MR


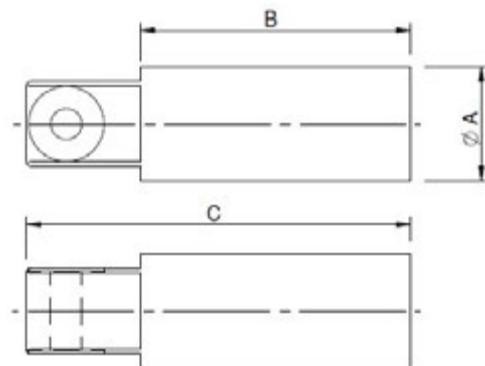
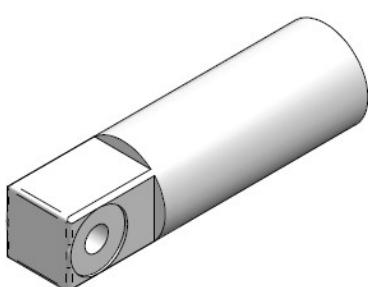
Article no.	A	B	C	D	M	Weight
CA.04.10.004	56		83.5		MR.30 / ATE.30	98 g
CA.04.10.005	45		72.5		MR.20 / ATE.20	87 g
CA.04.10.006	36		62		MR.10 / ATE.10	78 g
CA.04.10.007	30		55.5		MR.05 / ATE.05	72 g

Table / Tabella
M = Suitable for CA.MR.../ CA.ATE...
 Adatto per CA.MR.../CA.ATE...

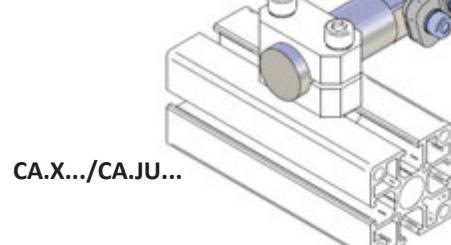
Osservazioni/ Osservazioni:

Material / Materiali :
 Steel / Acciaio

Surface: Steel galvanized
 Superficie: Acciaio zincato


Application example / Esempio applicativo


Article no.	A	B	C	Weight
CA.04.12.001	20		47.5	56 g
CA.04.12.002	30		67.5	82 g



Remarks/ Osservazioni:

Material/Materiali:
 Aluminium / Alluminio

Surface silver anodized
 Superficie: Argento anodizzato

CA.SAT**MR**

. Swivel Bracket MR

. Morsetto per attuatore MR

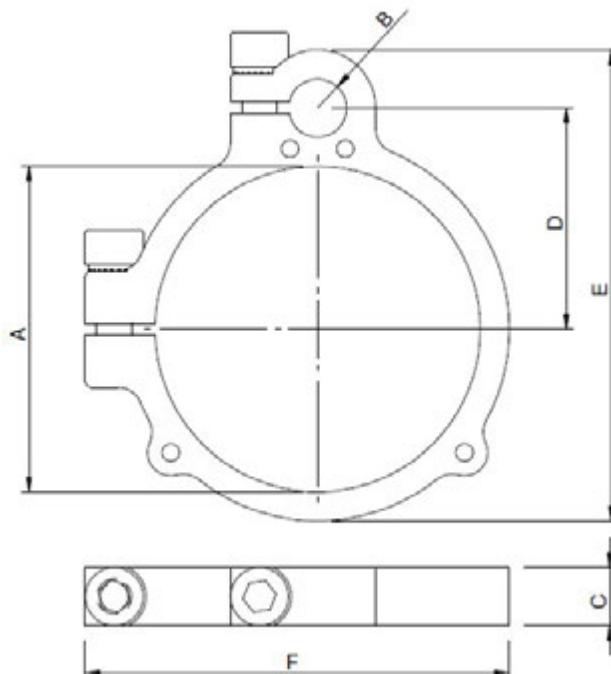
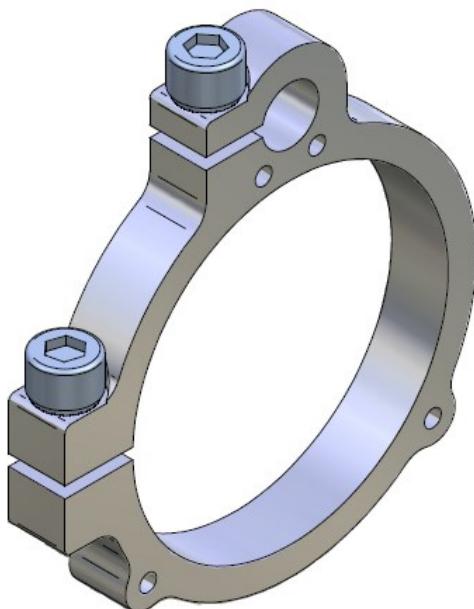


Table / Tabella

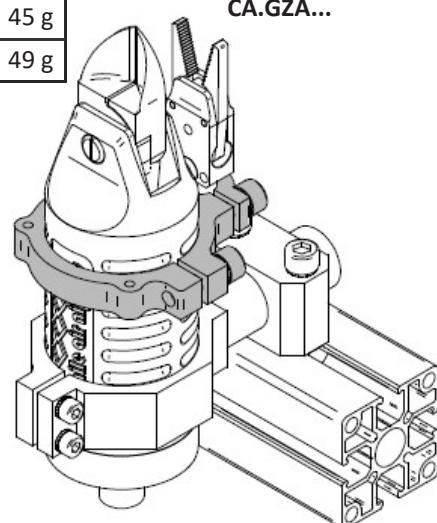
M = Suitable for CA.MR.../CA.ATE...
Adatto per CA.MR.../CA.ATE...

Article no.	A	B	C	D	E	F	M	Weight
CA.SAT.3610	36			28	62.8	53	MR.10 / ATE.10	27 g
CA.SAT.4510	45			32.5	70	62	MR.20 / ATE.20	30 g
CA.SAT.5610				38	81			43 g
CA.SAT.5614		56		40	85		MR.30 / ATE.30	37 g
CA.SAT.5620			10	43	91			57 g
CA.SAT.7510				47.5	100			43 g
CA.SAT.7514		75		49.5	104		MR.50 / ATE.50	45 g
CA.SAT.7520				52.5	110			49 g

Remarks / Osservazioni:

Material / Materiali:
Aluminium / AlluminioSurface: Silver anodized
Superficie: Argento anodizzato

CA.GZA...



Application example / Esempio applicativo

CA.STA
MR

. Spring loaded clamp

. Staffa ammortizzata

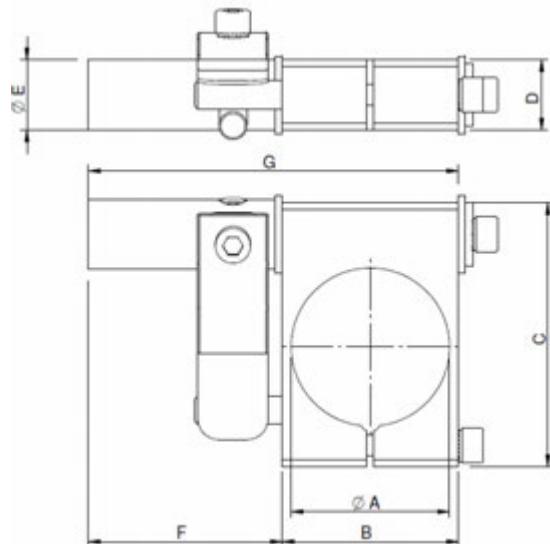
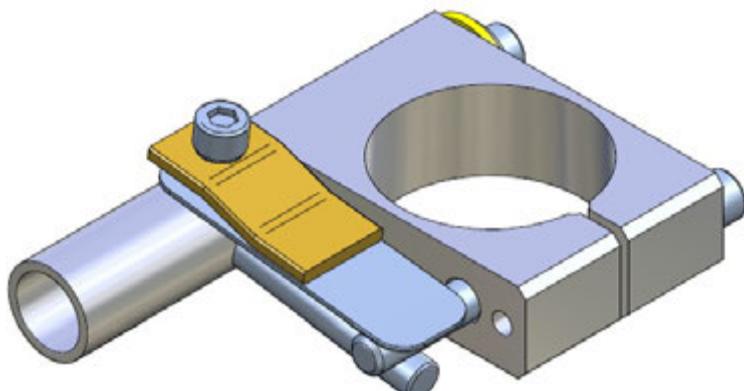


Table / Tabella

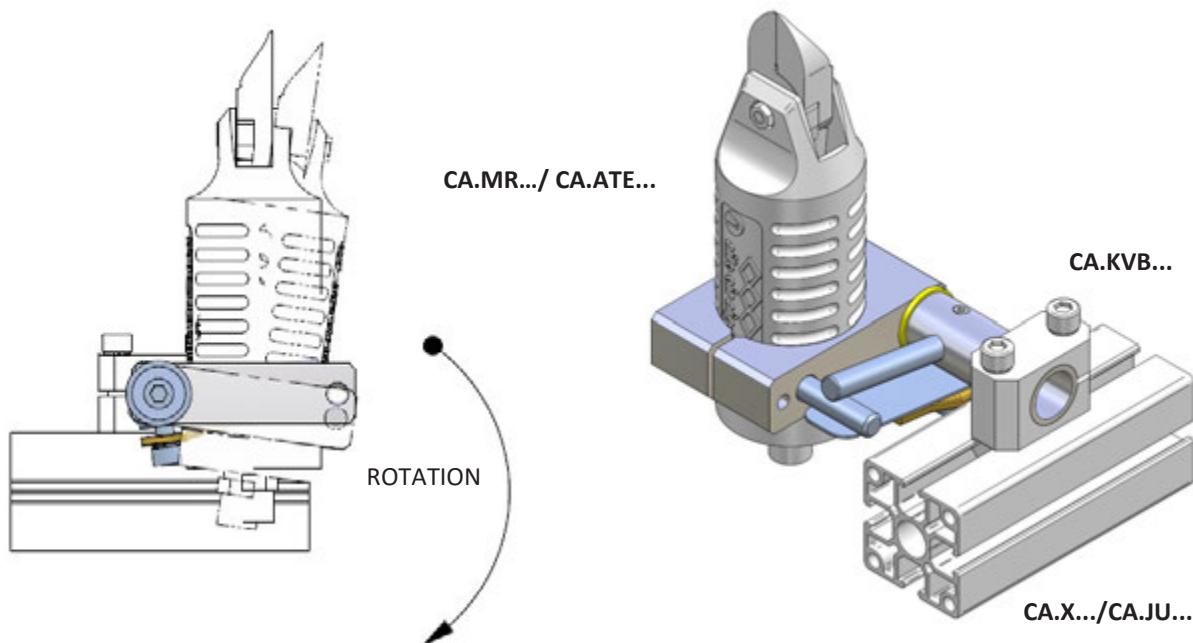
M = Suitable for CA.MR.../CA.ATE...
Adatto per CA.MR.../CA.ATE...

Remarks / Osservazioni:

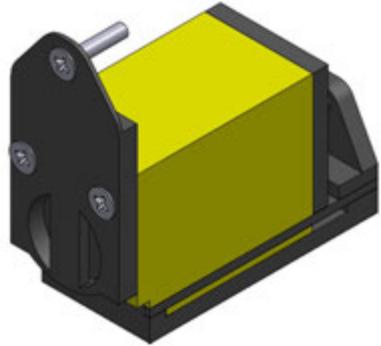
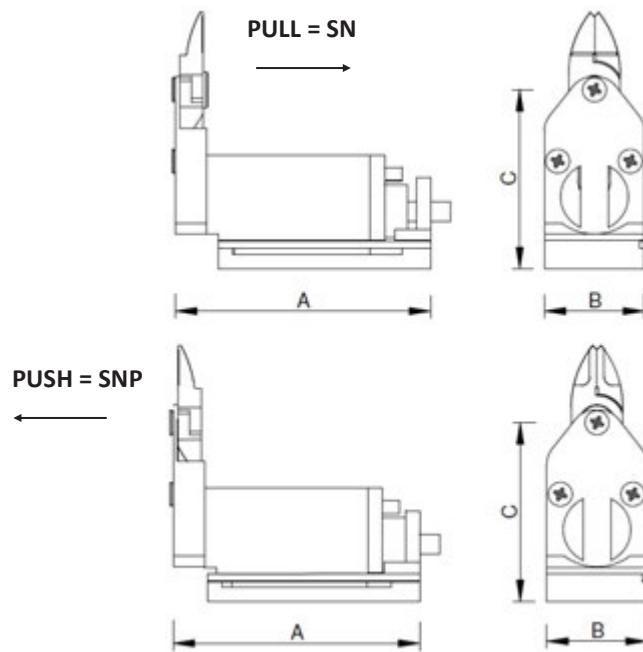
 Material / Materiali:
 Aluminium / Alluminio

 Surface: Silver anodized
Superficie: Argento anodizzato

Article no	A	B	C	D	E	F	G	M	Weight
CA.STA.45	45	50	75	20	20	53	105	MR.20 / ATE.20	275 g
CA.STA.56	56	60	86			63	125	MR.30 / ATE.30	322 g
CA.STA.75	75	85	106			59	146	MR.50 / ATE.50	443 g

Application examples / Esempi applicativi


Notes/*Note*

CA.SN
. Slided Air Nippers Horizontal - Type SN

SN
. Base mobile orizzontale scorrimento arretrato

Remarks:

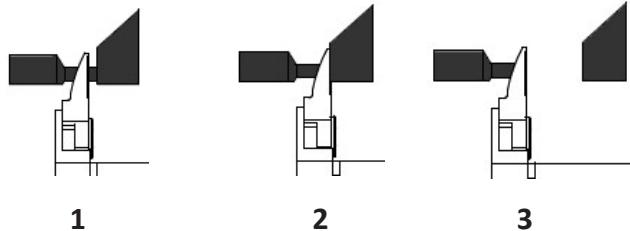
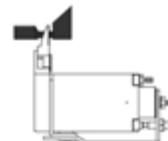
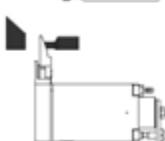
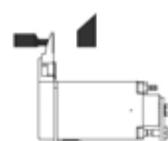
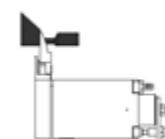
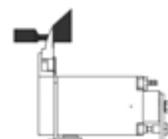
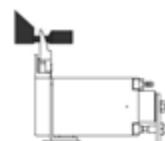
Two available models:

Push = SNP

Pull = SN

Units are not prearranged for using reversible blades.

On this kind of unit it's possible to adjust the blades

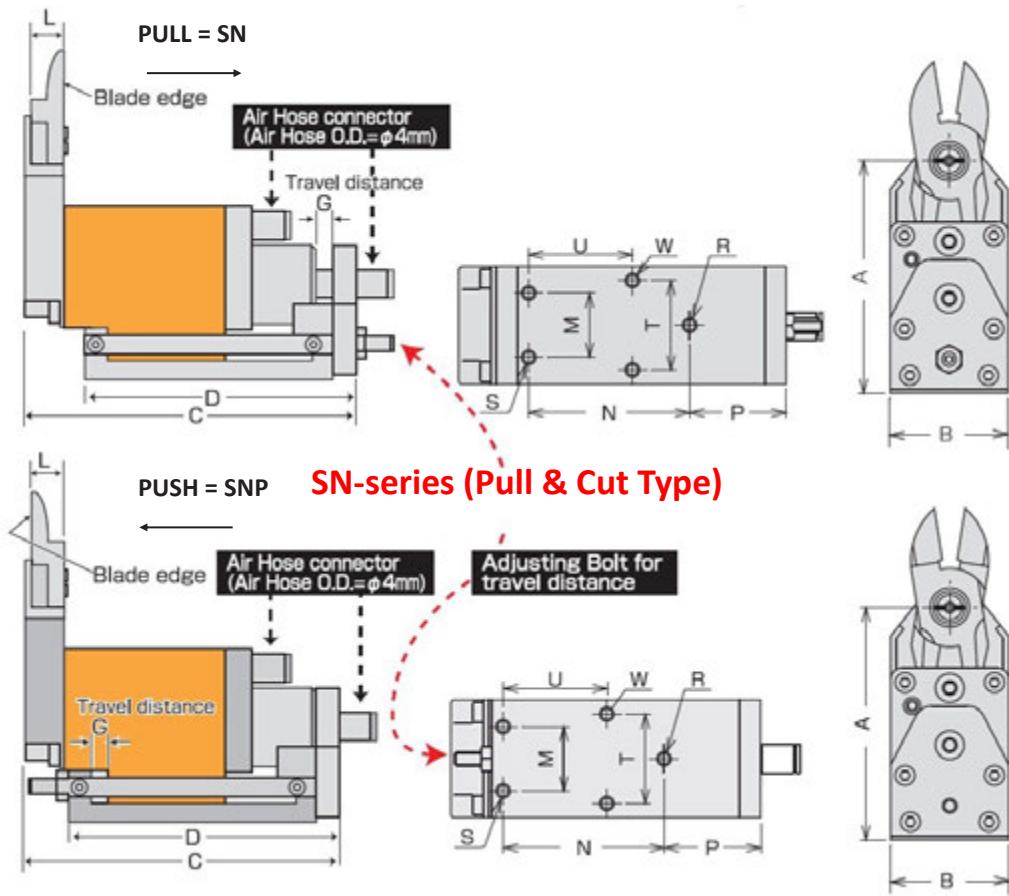
Osservazioni:
Due modelli disponibili:
Spinta = SNP
Tiro = SN
Le unità non sono pre-arrangiate per usare lame reversibili.
Su questo tipo di unità è possibile cambiare l'apertura delle lame
Application example / Esempio applicativo

PULL TYPE

PUSH TYPE


CA.SN

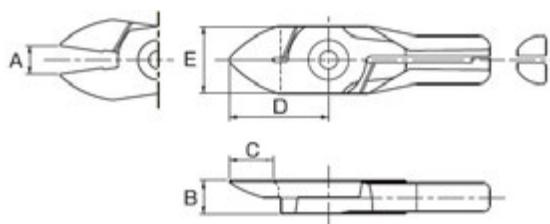
SN

. Slided Air Nippers Horizontal - Type SN

. Base mobile orizzontale scorrimento arretrato



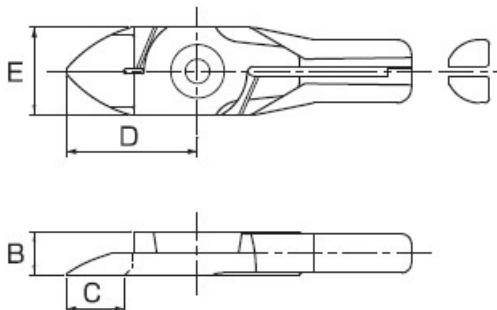
Article no.		Cutting Capacity	A	B	C	D	G	L	M	N	P	R	S	T	U	W	Weight
CA.SN3	PULL	2 ø mm	59	23	79.6	65	5	7	12	37	25	M4D5	15	23			170 g
CA.SNP3	PUSH				74.6												
CA.SN5	PULL	3 ø mm	63	28	83.6	69	5	7	14	40	26	M4D6	20	24	M4		220 g
CA.SNP5	PUSH				78.6												
CA.SN10	PULL	4 ø mm	70	33	91.6	75	5	9	18	45	27	M4D6	25	29			300 g
CA.SNP10	PUSH				86.6												
CA.SN20	PULL	5 ø mm	82	42	110	90	5	12	22	58	28	M4S7	30	32	M5		595 g
CA.SNP20	PUSH				105												

CA.FN
. Blades FN
FN


Article no.	M	A	B	C	D	E	Cutting capacity	Weight	
CA.FN10	CA.SN3	3.5		7		24	14	Ø 2	25 g
CA.FN1	CA.SN5	5.5			11		16	Ø 3	30 g
CA.FN3	CA.SN10	7		9		27	19	Ø 4	60 g
CA.FN5	CA.SN20	8.5	12	16	35	22	Ø 5	100 g	

Table / Tabella

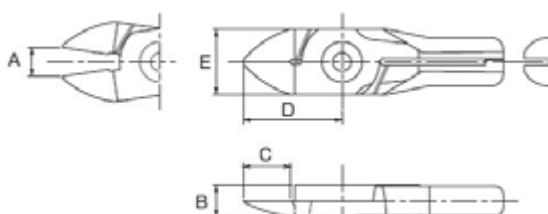
M = Suitable for CA.SN..

Adatto per CA.SN..
FNP


Article no.	M	A	B	C	D	E	Cutting capacity	Weight	
CA.FNP10	CA.SNP3	3.5		7		24	14	Ø 2	30 g
CA.FNP1	CA.SNP5	5.5			11		16	Ø 3	35 g
CA.FNP3	CA.SNP10	7		9		27	19	Ø 4	60 g
CA.FNP5	CA.SNP20	8.5	12	16	35	22	Ø 5	110 g	

Table / Tabella

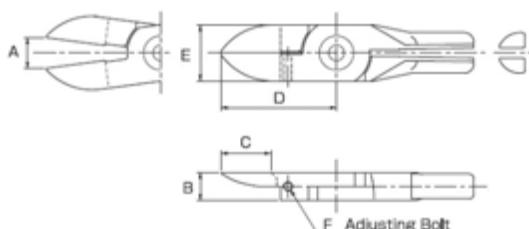
M = Suitable for CA.SN..

Adatto per CA.SN..
FN - K


Article no.	M	A	B	C	D	E	Cutting capacity	Weight	
CA.FN10K	CA.SN3	3.5		7		24	14	Ø 2	30 g
CA.FN1K	CA.SN5	5.5			11		16	Ø 3	
CA.FN3K	CA.SN10	7.5		9		27	19	Ø 4	60 g
CA.FN5K	CA.SN20	8.5	12	16	35	22	Ø 5	110 g	

Table / Tabella

M = Suitable for CA.SN..

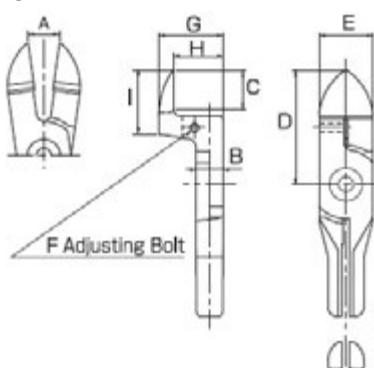
Adatto per CA.SN..
FN - L


Article no.	M	A	B	C	D	E	F	Cutting capacity	Weight	
CA.FN10L	CA.SN3	5.5		7		33	14	M3	Ø 2	35 g
CA.FN1L	CA.SN5	8			16		16		Ø 3	40 g
CA.FN3L	CA.SN10	9.5		9		37	18		Ø 3.5	65 g
CA.FN5L	CA.SN20	10	12	21	45	22			Ø 4.5	115 g

Table / Tabella

M = Suitable for CA.SN..

Adatto per CA.SN..

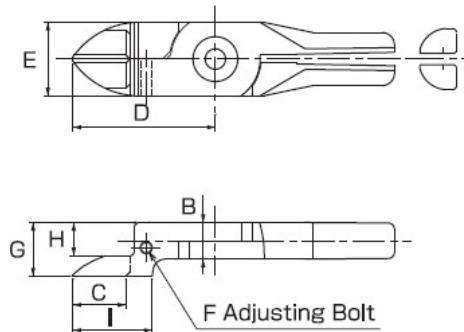
CA.FN**FN****. Blades FN****. Lame FN****FN - C**

Article no.	M	A	B	C	D	E	F	G	H	I	Cutting capacity	Weight
CA.FN10C	CA.SN3	5.2	7	11	35	14	M3	18	14	19	Ø 1.5	50 g
CA.FN1C	CA.SN5	9	7	13	38	16	M3	20	15	21	Ø 2.5	60 g
CA.FN3C	CA.SN10	10	9	13	38	18	M3	21.5	16.5	21	Ø 3	70 g
CA.FN5C	CA.SN20	10	12	19	46	22	M3	24	19	30	Ø 4	155 g

Table / Tabella

M = Suitable for CA.SN..

Adatto per CA.SN..

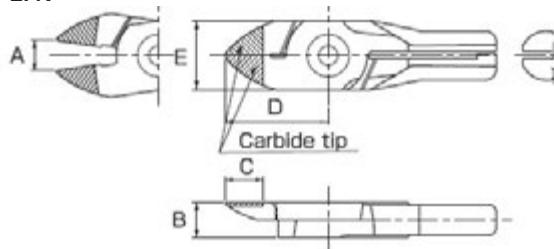
FNP - C

Article no.	M	A	B	C	D	E	F	G	H	I	Cutting capacity	Weight	
CA.FNP10C	CA.SNP3	5.2		7	11	35	14		12	8	20	Ø 1.5	50 g
CA.FNP1C	CA.SNP5	8.6			14	37	16		12.2	7.2	22	Ø 2.5	60 g
CA.FNP3C	CA.SNP10	9.8	9	13	35	18		13.2	8.2	20	Ø 3	70 g	
CA.FNP5C	CA.SNP20	10	12	18	42	22		16	11	27	Ø 4	155 g	

Table / Tabella

M = Suitable for CA.SN..

Adatto per CA.SN..

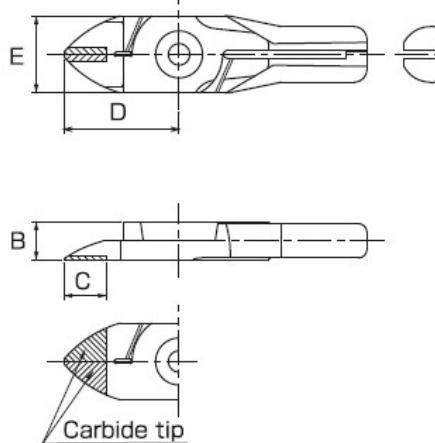
ZFN

Article no.	M	A	B	C	D	E	Cutting capacity	Weight	
CA.ZFN10	CA.SN3	3.5		7	11	24	14	Ø 2	30 g
CA.ZFN1	CA.SN5	5.5				16	16	Ø 3	35 g
CA.ZFN3	CA.SN10	7	9	10	27	19	Ø 4	60 g	
CA.ZFN5	CA.SN20	8.5	12	16	35	22	Ø 5	110 g	

Table / Tabella

M = Suitable for CA.SN..

Adatto per CA.SN..

ZFNP

Article no.	M	A	B	C	D	E	Cutting capacity	Weight	
CA.ZFNP10	CA.SNP3	3.5		7	11	24	14	Ø 2	30 g
CA.ZFNP1	CA.SNP5	5.5				16	16	Ø 3	35 g
CA.ZFNP3	CA.SNP10	7	9	10	27	19	Ø 4	60 g	
CA.ZFNP5	CA.SNP20	8.5	12	16	35	22	Ø 5	110 g	

Table / Tabella

M = Suitable for CA.SN..

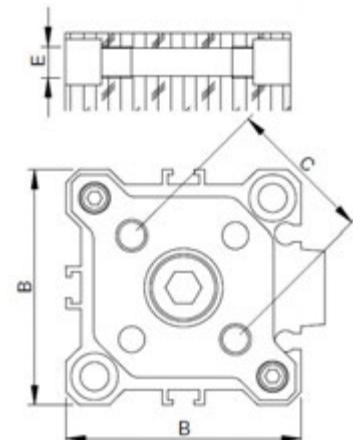
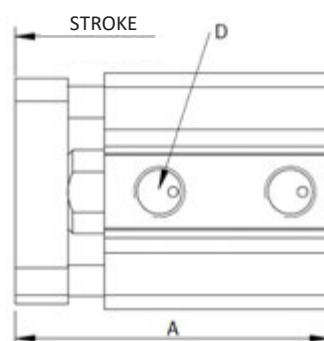
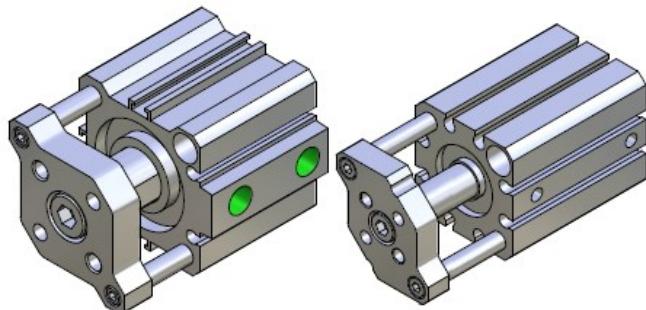
Adatto per CA.SN..

CA.11.17

. Compact Cylinder, Guide Rod Type

CYLINDERS

. Cilindro Anti-Rotazionale

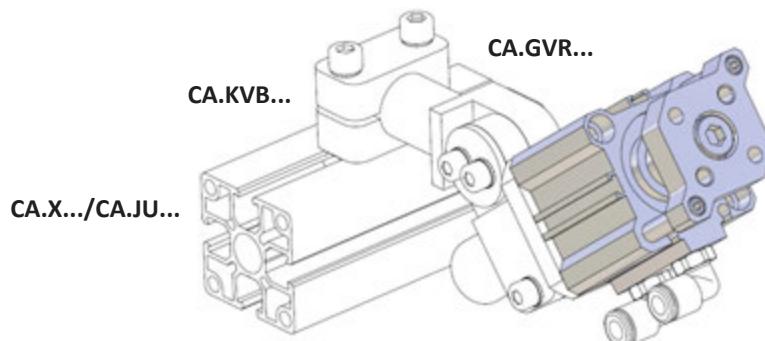


Remarks / Osservazioni:

Available with strokes:
Disponibili con corse:
5-15-25-30

Article no.	Piston bore	Stroke	Sensor (optional)	A	B	C	D	E	Weight
CA.11.17.001	12	10	PNP = KT58P3M - KT58PM8 NPN = KT58N3M - KT58NM8	41.5	25	10	M4	59 g	59 g
CA.11.17.002		20		51.5					
CA.11.17.003	16	10		41.5	29	14	M5	77 g	77 g
CA.11.17.004		20		51.5					
CA.11.17.005	20	10		50	36	17	M6	138 g	138 g
CA.11.17.006		20		60					
CA.11.17.007	25	10		53.5	40	22	M6	186 g	186 g
CA.11.17.008		20		63.5					
CA.11.17.009	32	10		60	45	28	G 1/8	223 g	223 g
CA.11.17.010		20		70					

Application example / Esempio applicativo

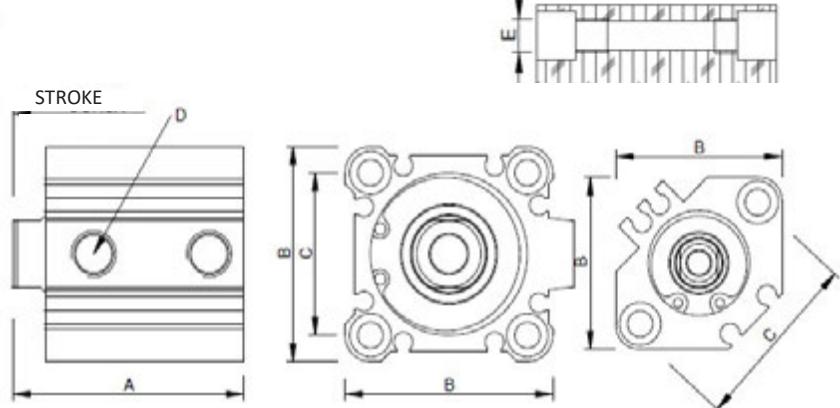
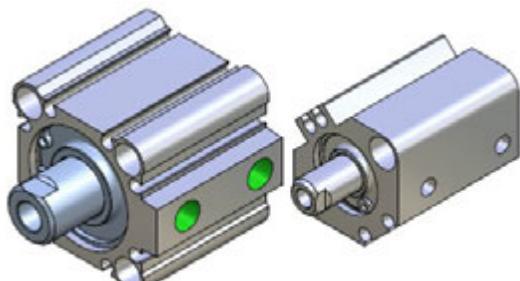


CA.11.18

. Compact Cylinder

CYLINDERS

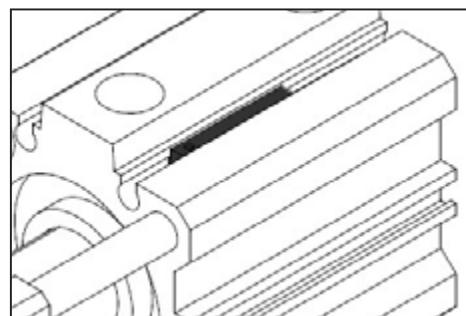
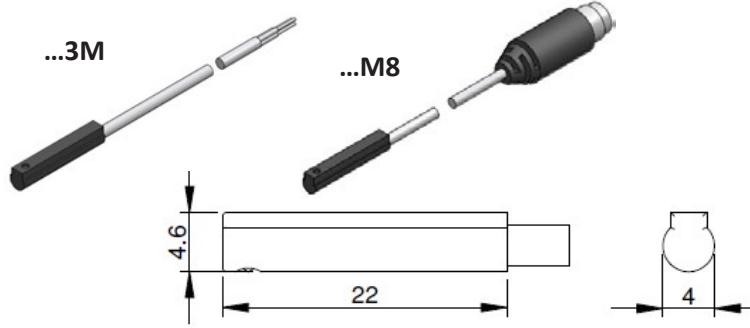
. Cilindro compatto



Remarks / Osservazioni:

Available with strokes:
Disponibili con corse:
5-15-25-30

Article no.	Piston bore	Stroke	Sensor (optional)	A	B	C	D	E	Weight	
CA.11.18.001	12	10	PNP = KT58P3M - KT58PM8 NPN = KT58N3M - KT58NM8	42	25	15.5	M4		44 g	
CA.11.18.002		20		51.5					69 g	
CA.11.18.003	16	10		44	29	20	M5		68 g	
CA.11.18.004		20		54					89 g	
CA.11.18.005	20	10		46	36	25.5	M6		106 g	
CA.11.18.006		20		56					138 g	
CA.11.18.007	25	10		47.5	40	28			148 g	
CA.11.18.008		20		57.5					186 g	
CA.11.18.009	32	10		50	45	34	G 1/8		231 g	
CA.11.18.010		20		60					285 g	

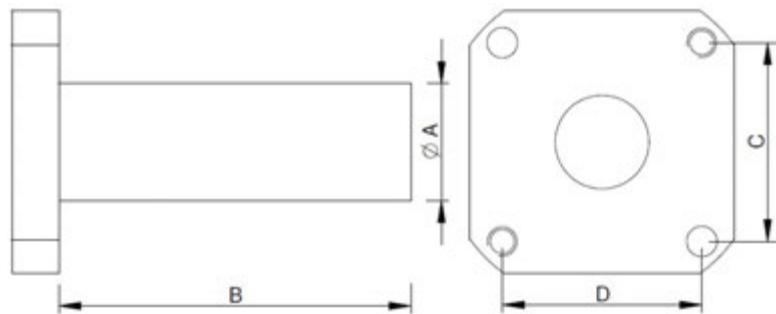
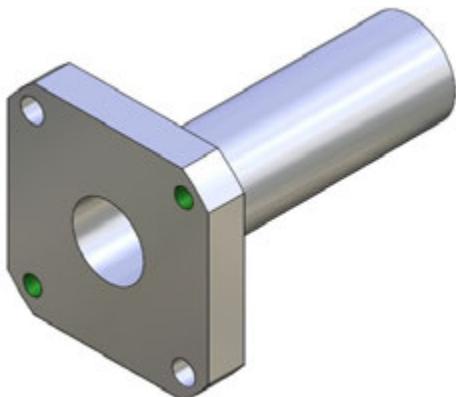


CA.11 ADZ

. Adapter for Cylinder

CYLINDERS

. Staffa parallela per cilindro



Article no.	A	B	C	D	M	Weight
CA.ADZ.12.14	14	30	15.5	15.5	Ø12	19 g
CA.ADZ.16.14			19.9	19.9	Ø16	25 g
CA.ADZ.20.14			40	25.5	Ø20	32 g
CA.ADZ.25.20	20	60	28	28	Ø25	55 g
CA.ADZ.32.20			34	34	Ø32	74 g
CA.ADZ.32.20.90			90			85 g
CA.ADZ.32.25	25	60				

Table / Tabella

M = Suitable for Cylinder CA.11.17 / 11.18...

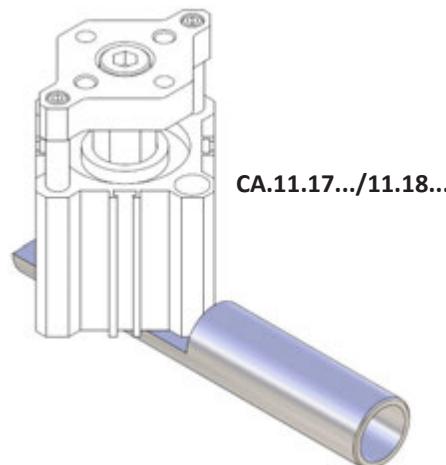
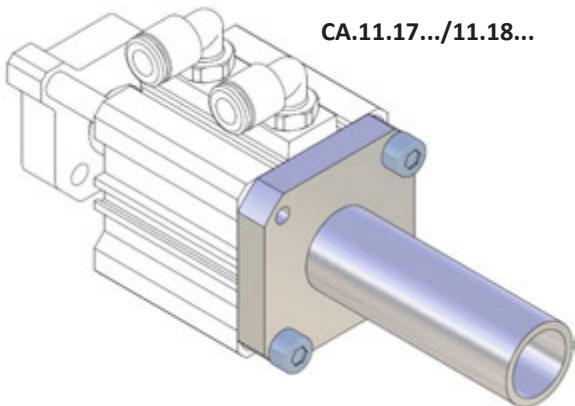
Adatto per Cilindri CA.11.17 / 11.18...

Remarks / Osservazioni:

Material / Materiali:
Aluminium / Alluminio

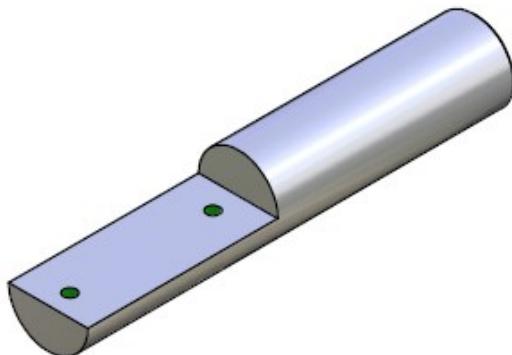
Surface: Silver anodized
Superficie: Argento anodizzato

Application examples / Esempi applicativi



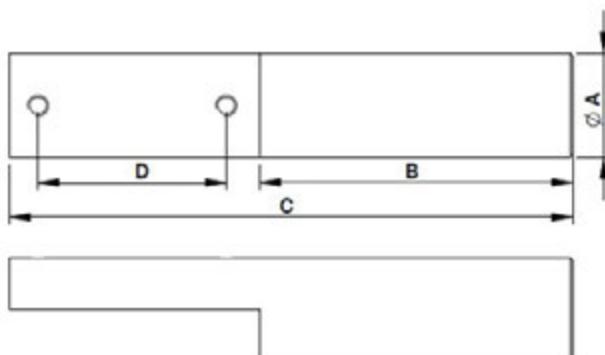
CA.11 GAZ

. Adapter for Cylinder



CYLINDERS

. Staffa posteriore a L per cilindro



Article no.	A	B	C	D	M	Weight
CA.GAZ.12.10.60	10	60	98	21.9	Ø 12	17 g
CA.GAZ.16.14.60	14		104	28.3	Ø 16	27 g
CA.GAZ.20.20.60			108	36.1	Ø 20	56 g
CA.GAZ.25.20.60	20		130	39.6	Ø 25	59 g
CA.GAZ.32.20.60			140	48.1	Ø 32	62 g

Table / Tabella

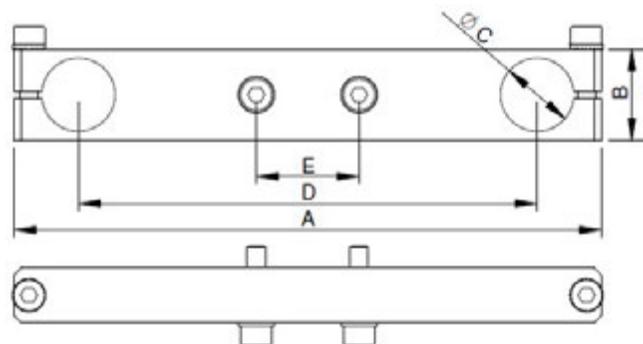
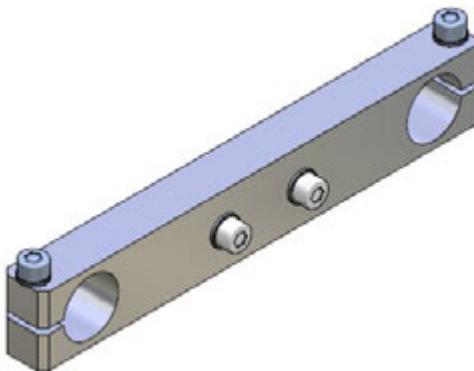
M = Suitable for Cylinder CA.11.17/11.18...
Adatto per cilindri CA.11.17/11.18...

Remarks/ Osservazioni:

Material / Materiali:
Aluminium / Alluminio

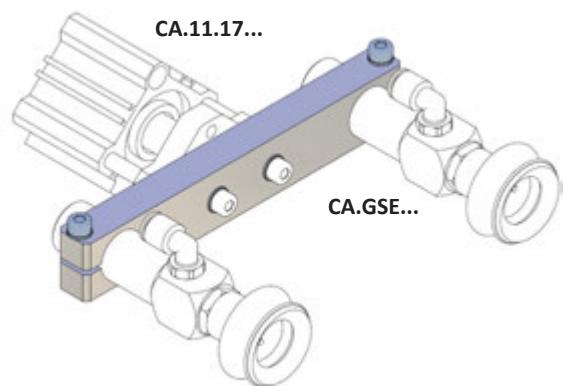
Surface: Silver anodized
Superficie: Argento anodizzato

CA.11 KBH



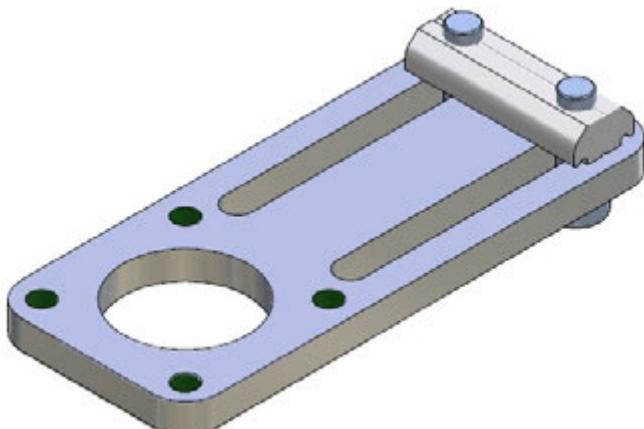
Article no.	A	B	C	D	E	M	Weight
CA.KBH.12.10.60	85	15	10	60	10	Ø 12	33 g
CA.KBH.16.14.90	121	20	14	90	14	Ø 16	56 g
CA.KBH.16.16.125	156	25	16	125			88 g
CA.KBH.20.14.90	121	20	14	90	17	Ø 20	58 g
CA.KBH.20.16.125	156	25	16	125			90 g
CA.KBH.25.16.125				22	Ø 25	94 g	
CA.KBH.32.20.125	160	20	28	Ø 32	28	Ø 32	156 g

Application example / Esempio applicativo

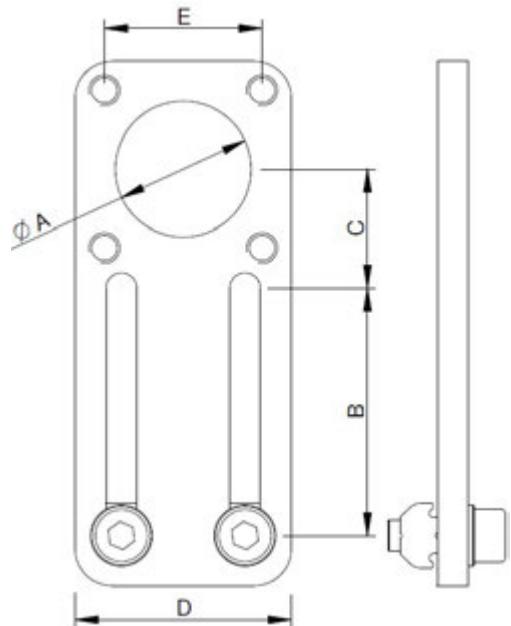


CA.11.08

. Bracket for Cylinder


CYLINDERS

. Staffa per cilindro



Article no.	A	B	C	D	E	M	Weight
CA.11.08.001.X	14	30	19.5	25	15,5	Ø12	35 g
CA.11.08.002.X	18				20	Ø16	35 g
CA.11.08.003.X	22	40	19.3	35	25.5	Ø20	49 g
CA.11.08.004.X	28	35	24	40	28	Ø25	52 g
CA.11.08.005.X	32		27,5	45	34	Ø32	60 g

Table / Tabella

M = Suitable for Cylinder CA.11.17/11.18...

Adatto per cilindri CA.11.17/11.18...

Remarks / Osservazioni:

Material / Materiali:

Aluminium / Alluminio

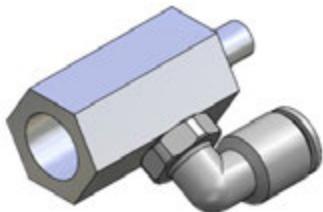
Surface: Silver anodized

Superficie: Argento anodizzato

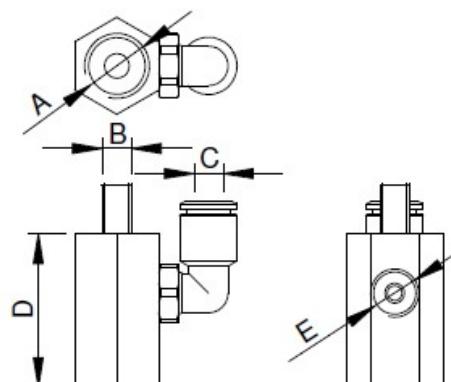
CA.11.15

. Adapters for vacuum cups

. Collegamento cilindro per ventosa



Article no.	A	B	C	D	E	M	Weight
CA.11.15.001		M4				Ø16	13 g
CA.11.15.002	G 1/8	M6	4	24.5		Ø25	15 g
CA.11.15.004		M5		34.5		Ø20	21 g
CA.11.15.003	G 1/4	M6	6	31	G 1/8	Ø25	24 g
CA.11.15.005		M8		31		Ø32	22 g

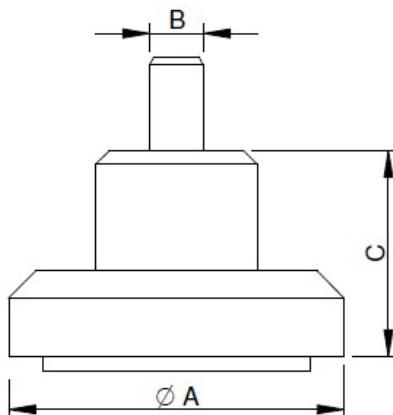
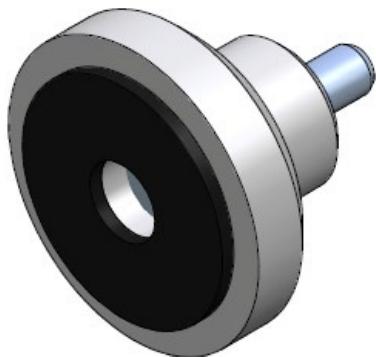


CA.11.04

. Cylinder Buffer

CYLINDERS

. Tamponi per cilindro



Article no.	A	B	C	M	Weight
CA.11.04.001	20	M3	14	Ø12	5 g
CA.11.04.002	25	M4	15	Ø16	10 g
CA.11.04.003	30	M5	18	Ø20	17 g
CA.11.04.004	35	M6	19	Ø25	28 g
CA.11.04.005	40	M8	20	Ø32	46 g
CA.11.04.006	20	M5		KHZ/JDR	7 g
CA.11.04.007	40	G 1/8			40 g

Table / Tabella

M = Suitable for Cylinder CA.11.17/11.18...

Adatto per cilindri CA.11.17/11.18...

Remarks / Osservazioni:

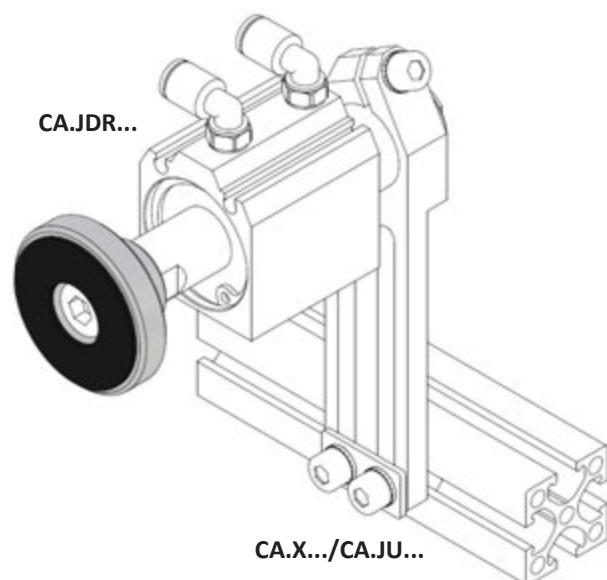
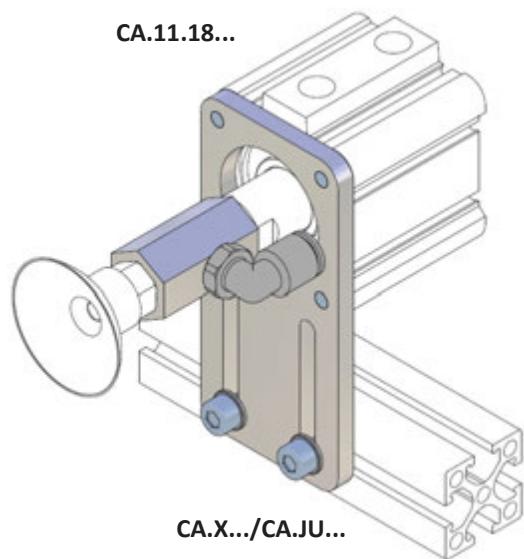
Material / Materiali:

Aluminium / Alluminio

Surface: Silver anodized

Superficie: Argento anodizzato

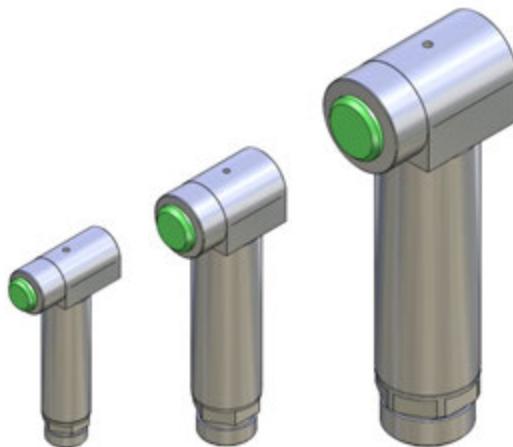
Application examples / Esempi applicativi



CA.11 PMA
PMA

- . One finger pneumatic grippers perpendicular acting

- . Pinza perpendicolare per staffaggio



Article no.	Stroke	Piston bore	Gripping force (at 6 bar)	Cycle air consumption	Weight
CA.PMA.1406	6 mm	Ø 10 mm	63 N	0.5 cm ³	47 g
CA.PMA.2010	10 mm	Ø 16 mm	115 N	3.5 cm ³	115 g
CA.PMA.3015	15 mm	Ø 25 mm	230 N	15 cm ³	380 g

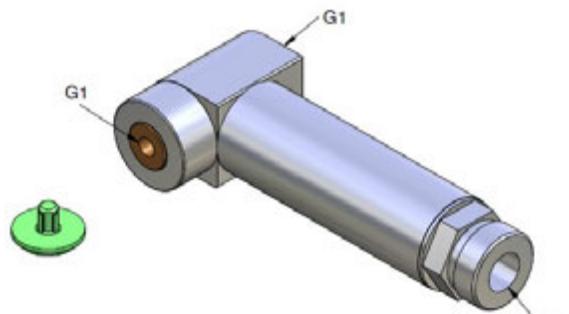
Remark / Osservazioni :

Working pressure: 6 bar clean and dry air

Pressione lavorante: 6 bar con aria secca e pulita

Single-acting pneumatic piston drive

Guida per pistone pneumatico ad azione singola



Finger linear motion, perpendicular to the piston

Movimento lineare del dito, perpendicolare al pistone

Finger with through hole, to provide vacuum to a cup

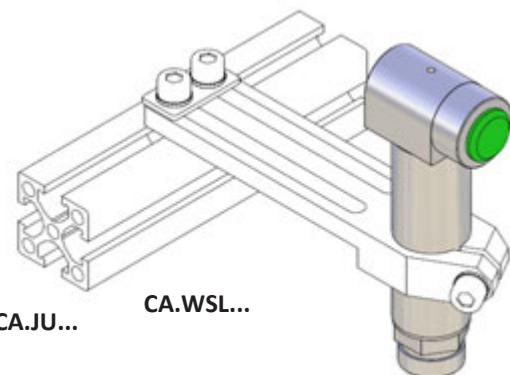
Dito passante per il foro, per fornire vuoto alla ventosa

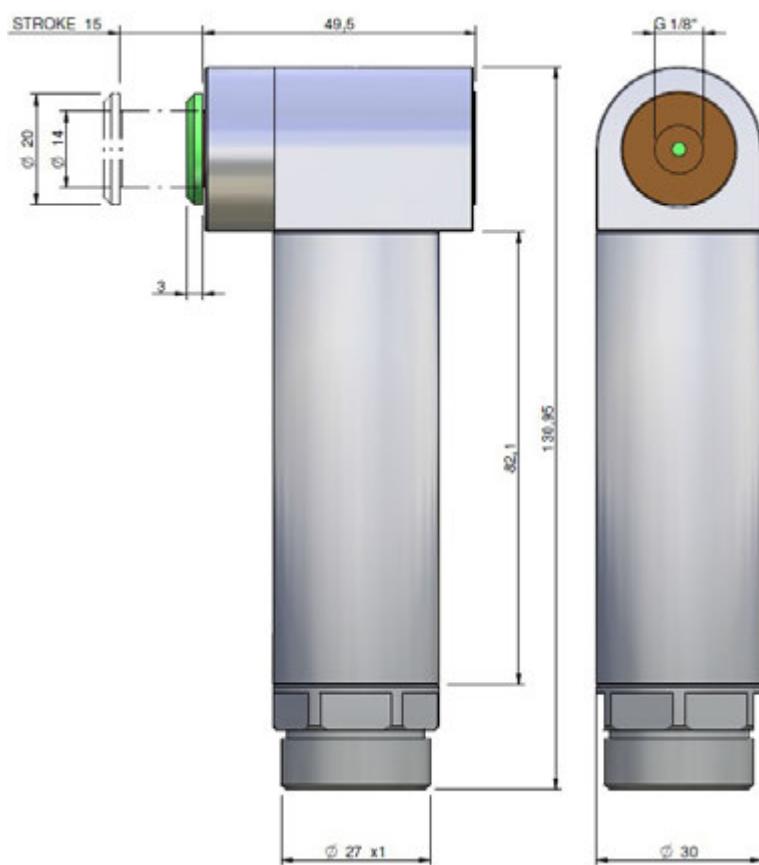
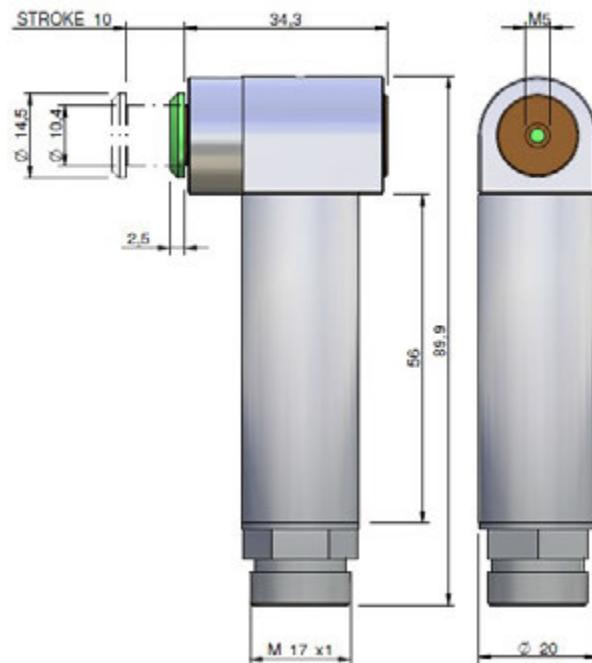
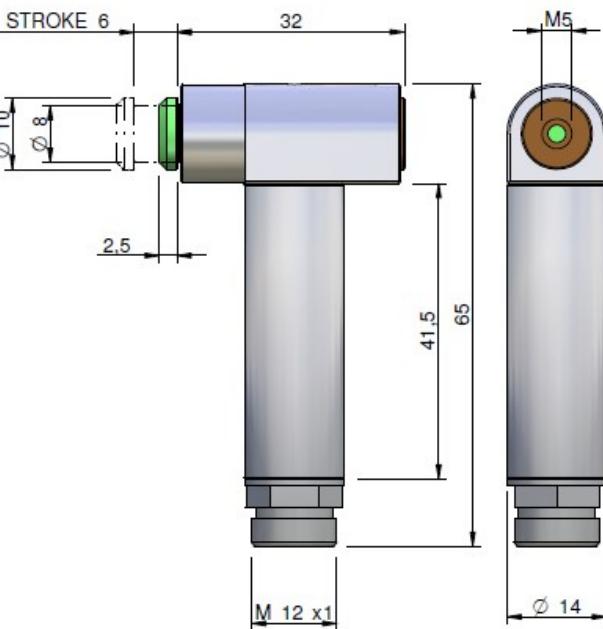
Removable VITON rubber pad on the finger, for a soft touch

Gommino rimovibile in VITON dal dito, per un tocco soffice

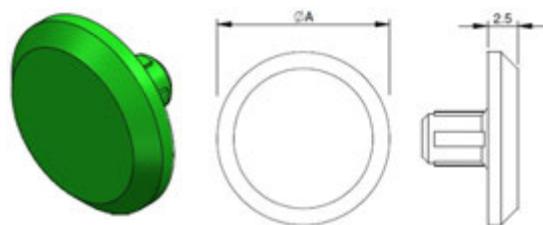
Application example / Esempio applicativo

Article no.	G1	G2
CA.PMA.1406	M5	M5
CA.PMA.2010		G 1/8
CA.PMA.3015	G 1/8	



CA.11 PMA**PMA****. Dimensions**

Article no.	A	Weight
PPS.1406.07.V	10	...
PPS.2010.07.V	14.5	1 g
PPS.3015.07.V	20	4 g

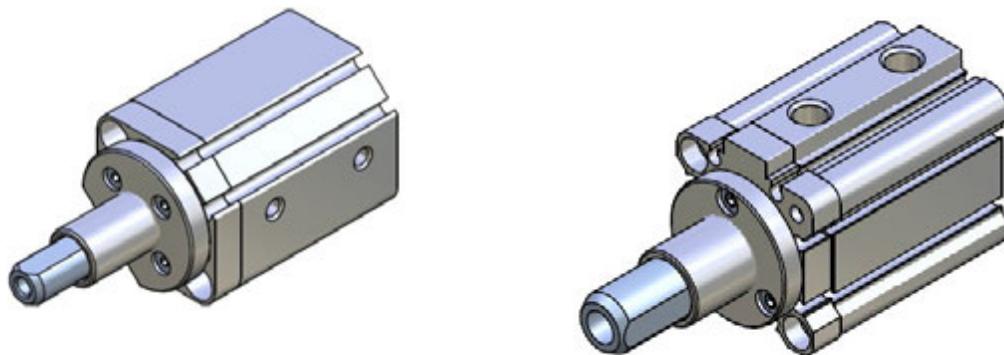


CA.11 KHZ

. Compact Cylinder for vacuum cup

KHZ

. Cilindro per ventosa



Article no.	Piston bore	Stroke	Sensor (optional)	Weight
CA.KHZ.20141005	Ø 20	10	PNP =KT58P3M KT58PM8	135 g
CA.KHZ.20143005		30		250 g
CA.KHZ.32201518	Ø 32	15	NPN = KT58N3M KT58NM8	399 g
CA.KHZ.32203018		30		483 g
CA.KHZ.32205018		50		602 g

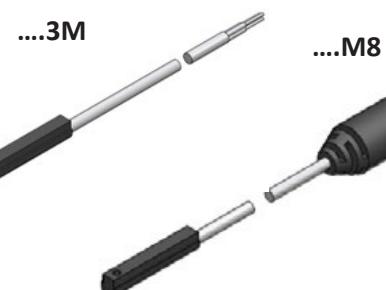
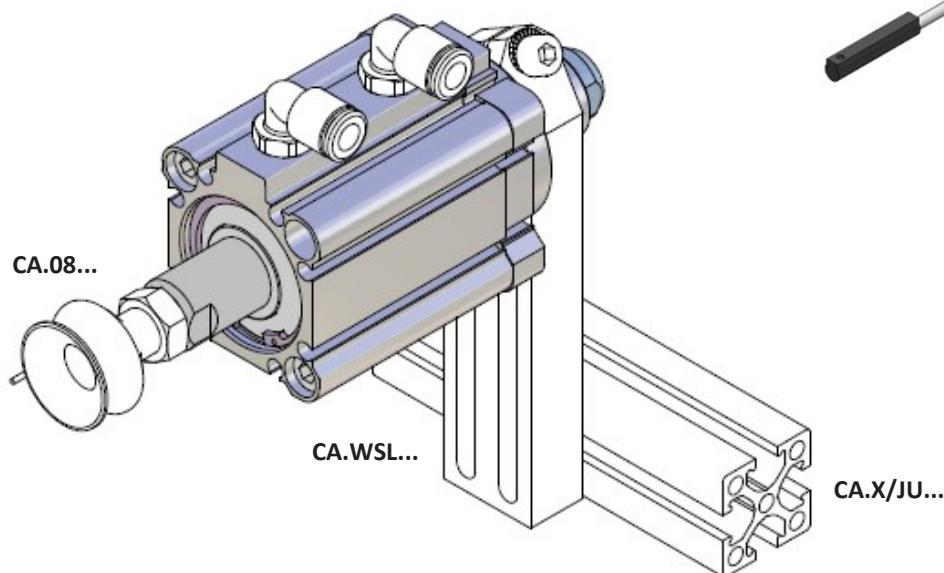
Remarks / Osservazioni:

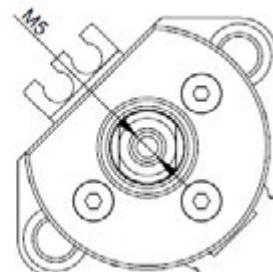
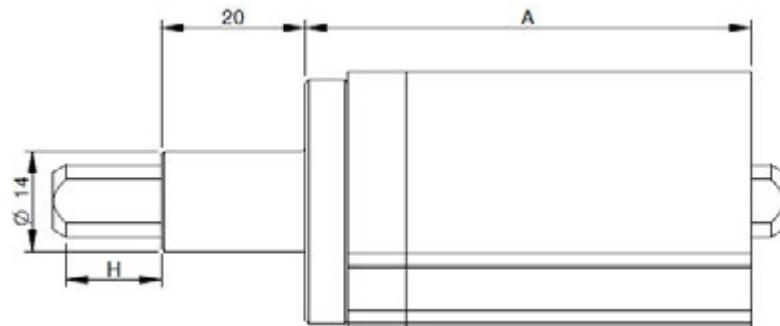
Cylinder with through rod, non rotational
Cilindro con stelo passante anti Rotazionale

Suitable for applications with suction cups
Adatto per applicazione di ventose

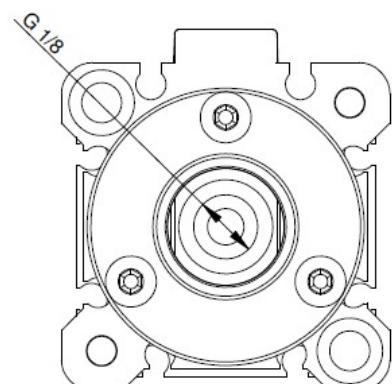
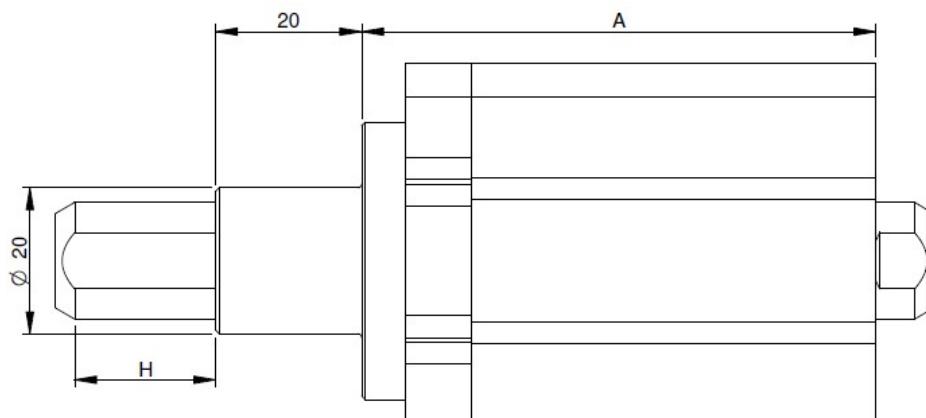
Available in 5 sizes and 5 different strokes
Disponibile in 5 taglie e 5 diverse corse

Application example / Esempio applicativo



CA.11 KHZ**KHZ****. Dimensions****. Dimensioni**

Article no.	A	H
CA.KHZ.20141005	62	10
CA.KHZ.20143005	102	30

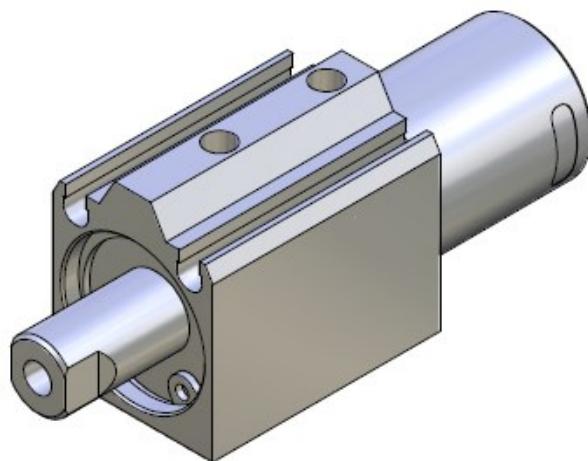


Article no.	A	H
CA.KHZ.32201518	70.5	15
CA.KHZ.32203018	100.5	30
CA.KHZ.32205018	140.5	50

CA.11 JDR
JDR

. Compact cylinder for vacuum cup, non rotational

. Cilindro per Ventosa



Article no.	Piston bore	Stroke	Sensor(optional)	Weight
CA.JDR.141005	\emptyset 14	10	PNP =KT58P3M	54 g
CA.JDR.142505		25		76 g
CA.JDR.201005	\emptyset 20	10	KT58PM8	63 g
CA.JDR.301518	\emptyset 32	15	NPN = KT58N3M	112 g
CA.JDR.303018		30		150 g
CA.JDR.305018		50	KT58NM8	200 g

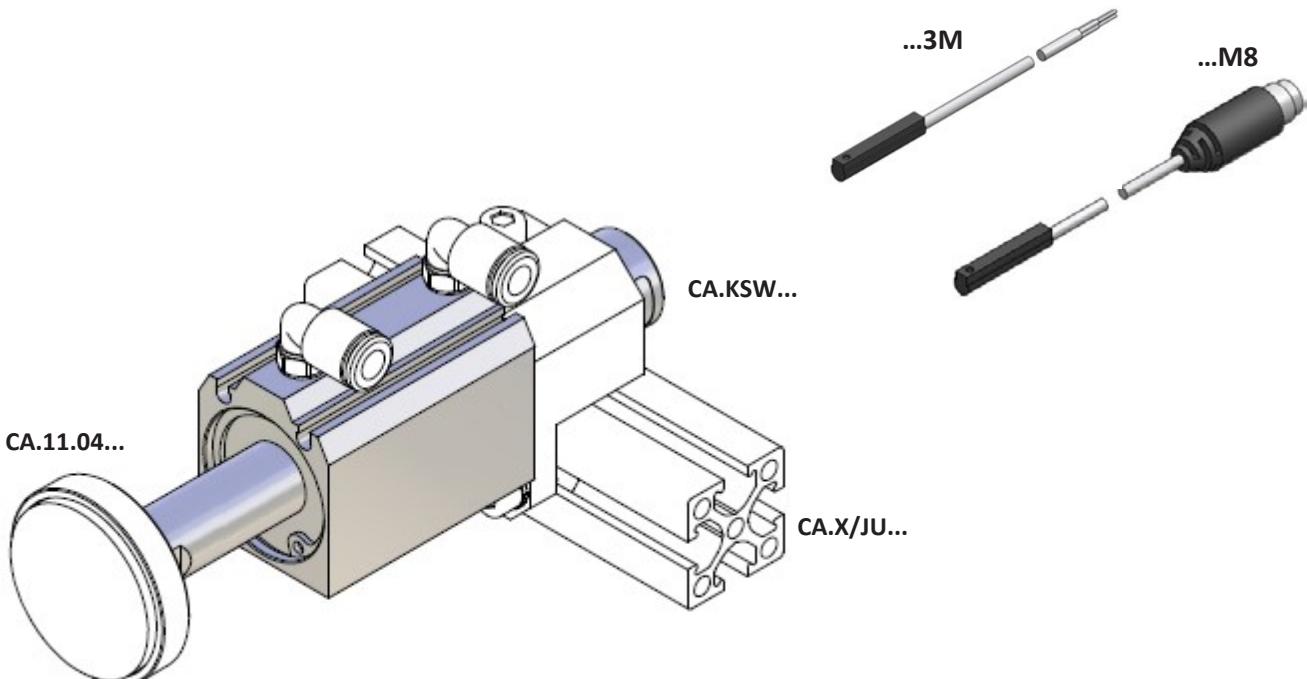
Remarks / Osservazioni:

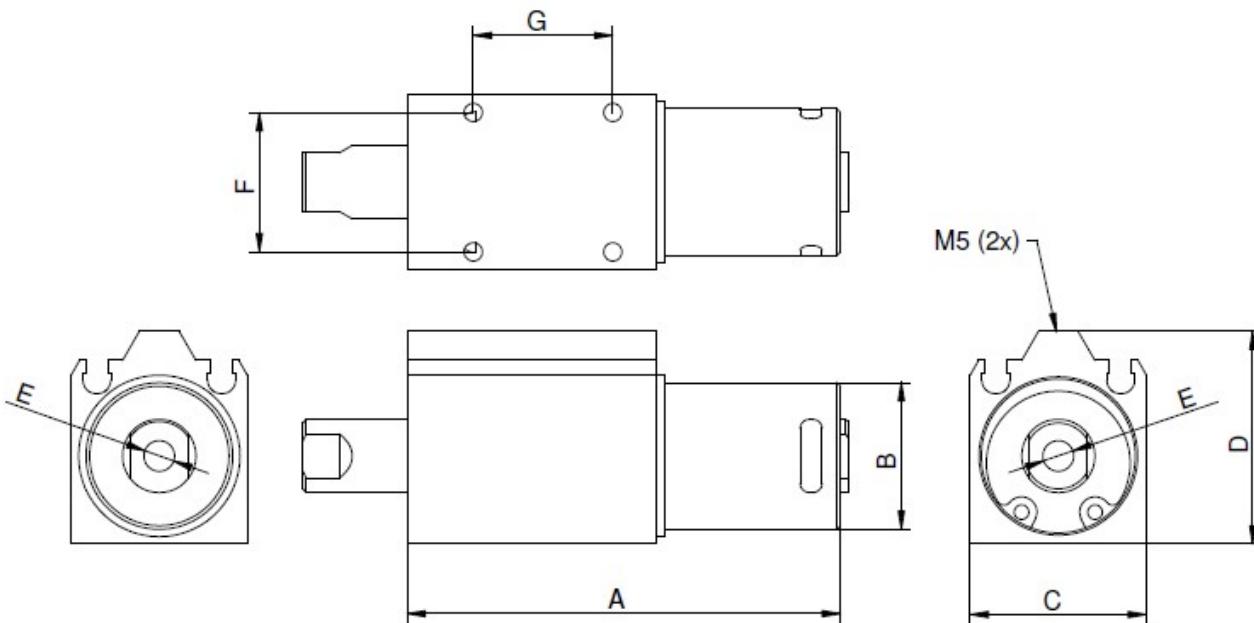
Cylinder with through rod, non rotational
Cilindro con stelo passante Anti-Rotazionale

Suitable for applications with suction cups
Adatto per applicazione di ventose

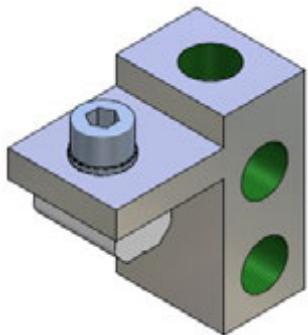
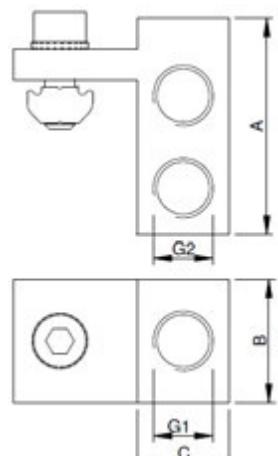
Available in 6 sizes and 6 different strokes
Disponibile in 6 taglie e 6 diverse corse

Application example / Esempio applicativo



CA.11 JDR**JDR****. Dimensions****. Dimensioni**

Article no.	A	B	C	D	E	F	G	H
CA.JDR.141005	64	\varnothing 14	24	29	M5	19	19	10
CA.JDR.142505	94							25
CA.JDR.201005	64	\varnothing 20	34	39	G 1/8	28	28	10
CA.JDR.301518	72							15
CA.JDR.303018	100							30
CA.JDR.305018	140							50

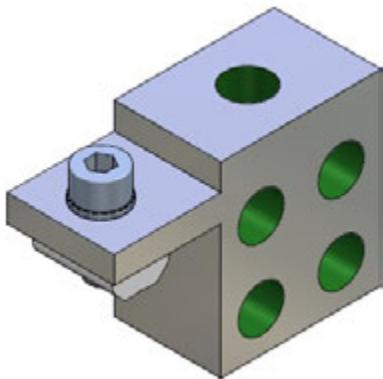
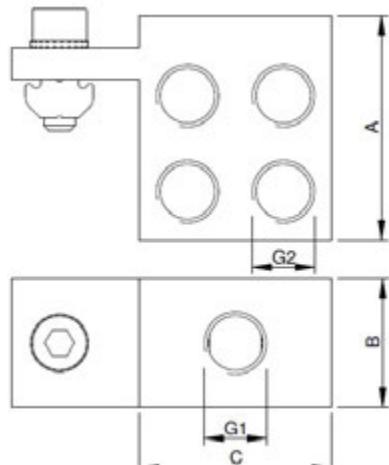
CA.12 VTB
PNEUMATIC
. Air vacuum manifold 1 - 4

. Distributore aria 1 - 4


1 Main connection - 4 output terminal / 1 connessione principale - 4 uscite

Article no.	A	B	C	G1	G2	M	Weight
CA.VTB.X.141818	35	20	15	G 1/8	G 1/8	X	35 g
CA.VTB.JU.141818						JU	37 g

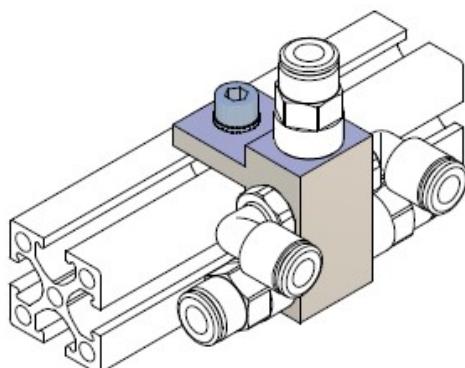
Table / Tabella
M = Suitable for PROFILE...
Adatto per PROFILI....

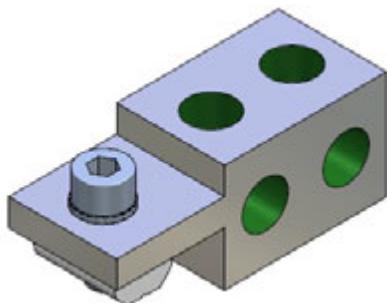
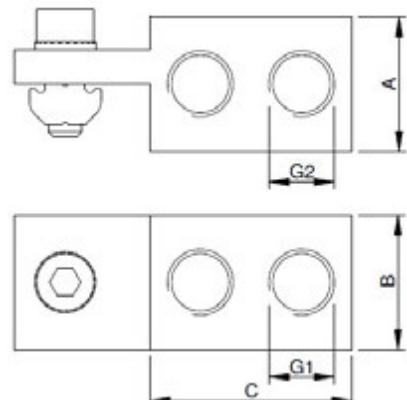
Remarks / Osservazioni:
Material / Materiale:
Aluminium / Alluminio

Surface: Silver anodized
Superficie: Argento anodizzato
. Air vacuum manifold 1 - 8

. Distributore aria 1 - 8


1 Main connection - 8 output terminal / 1 connessione principale - 8 uscite

Article no.	A	B	C	G1	G2	M	Weight
CA.VTB.X.181818	35	20	30	G 1/8	G 1/8	X	55 g
CA.VTB.JU.181818						JU	58 g

Application example / Esempio applicativo


CA.12 VTB**PNEUMATIC****. Air vacuum manifold 2 - 4****. Distributore aria 2 - 4**

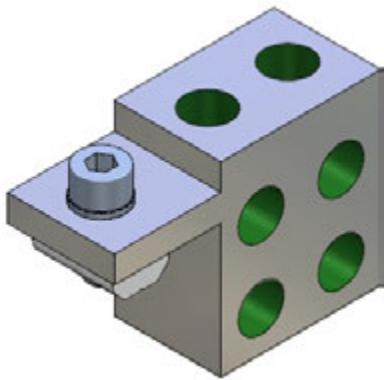
2 Main connection - 4 output terminal / 2 connessioni principali - 4 uscite

Article no.	A	B	C	G1	G2	M	Weight
CA.VTB.X.241818	20	20	30	G 1/8	G 1/8	X	39 g
CA.VTB.JU.241818	40					JU	41 g

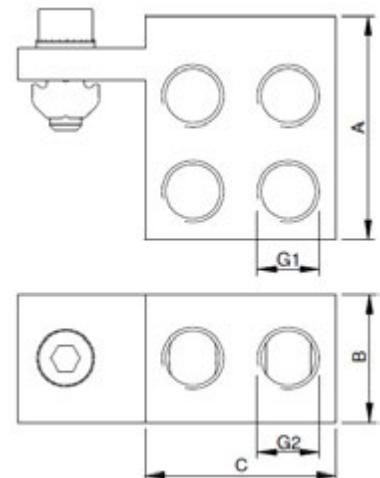
Table / Tabella
M = Suitable for PROFILE...
 Adatto per PROFILI...

Remarks / Osservazioni:
 Material / Materiale:
 Aluminium / Alluminio

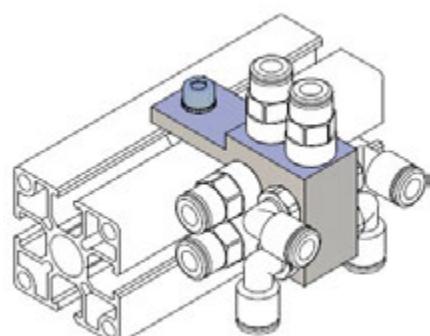
Surface: Silver anodized
 Superficie: Argento anodizzato

. Air vacuum manifold 2 - 8

2 Main connection - 4 output terminal / 2 connessioni principali - 8 uscite

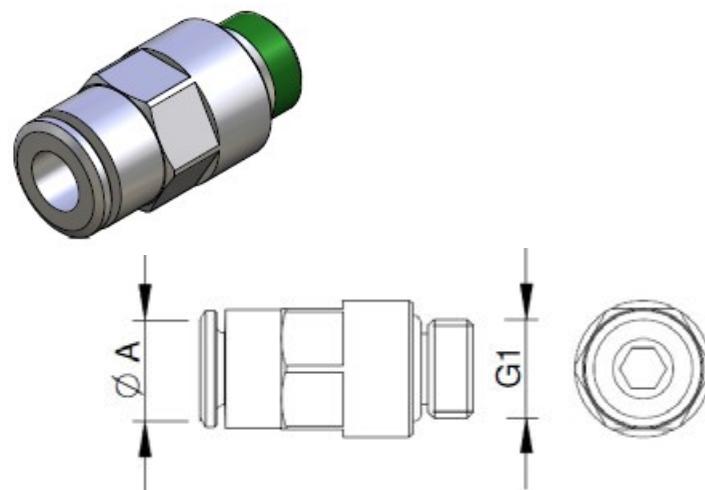
. Distributore aria 2 - 8

Article no.	A	B	C	G1	G2	M	Weight
CA.VTB.X.281818	35	20	30	G 1/8	G 1/8	X	54 g
CA.VTB.JU.281818						JU	57 g

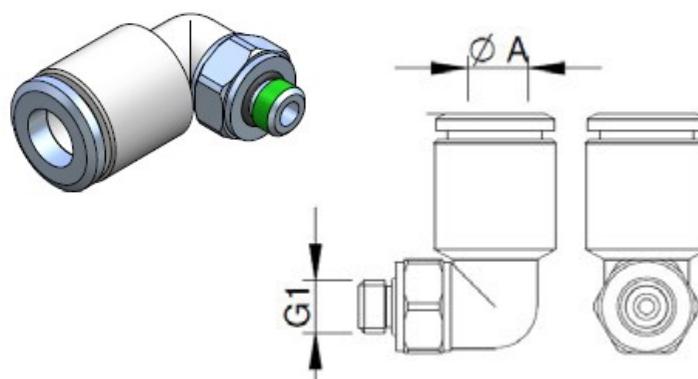
Application example / Esempio applicativo

CA.12.05
PNEUMATIC
. Straight male adapter (parallel)

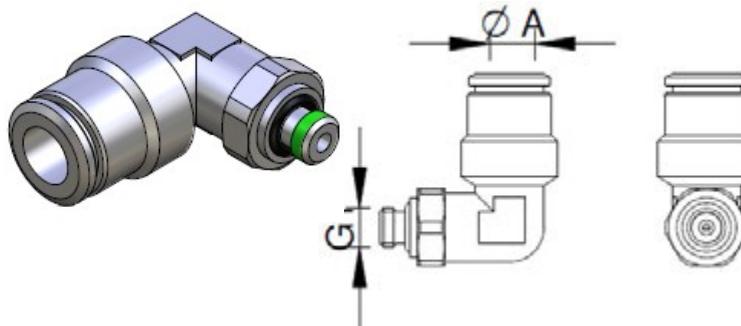
Article no.	A	G1	Weight
CA.12.05.015	Ø 4	M5	4 g
CA.12.05.016	Ø 6		8 g
CA.12.05.017	G 1/8	10 g	
CA.12.05.023	Ø 3	M3	1 g
CA.12.05.024		M5	
CA.12.05.044	Ø 4	G 1/8	10 g
CA.12.05.047	Ø 6	G 1/4	13 g
CA.12.05.048	Ø 8		17 g
CA.12.05.049	G 3/8	27 g	


. Orienting elbow male adapter (parallel)
. Raccordo gomito

Article no.	A	G1	Weight
CA.12.05.001	Ø 4	M5	4 g
CA.12.05.002	Ø 6		5 g
CA.12.05.003	G 1/8	8 g	
CA.12.05.038	Ø 8	G 1/4	11 g
CA.12.05.039			13 g
CA.12.05.040	Ø 4	G 1/8	7 g

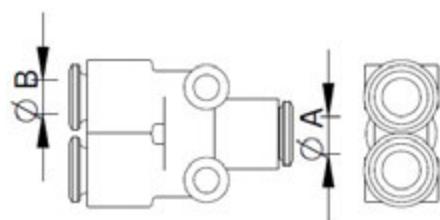


Article no.	A	G1	Weight
CA.12.05.018	Ø 4	M5	12 g
CA.12.05.019	Ø 6	G 1/8	19 g
CA.12.05.020		M5	14 g
CA.12.05.021	Ø 3	M3	5 g
CA.12.05.022		M5	6 g

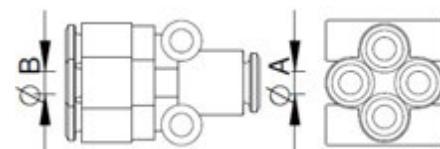


CA.12.05**. Y connector**

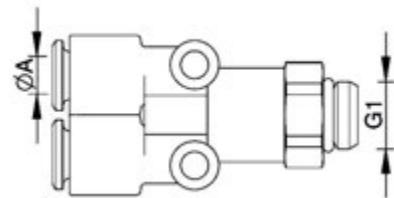
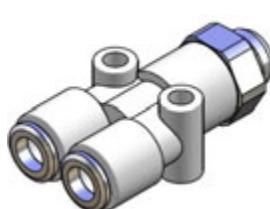
Article no.	A	B	Weight
CA.12.05.004	$\emptyset 4$	2 x $\emptyset 4$	6 g
CA.12.05.005	$\emptyset 6$	2 x $\emptyset 6$	9 g
CA.12.05.006	$\emptyset 6$	2 x $\emptyset 4$	7 g
CA.12.05.007	$\emptyset 8$	2 x $\emptyset 6$	11 g
CA.12.05.034	$\emptyset 3$	2 x $\emptyset 3$	5 g



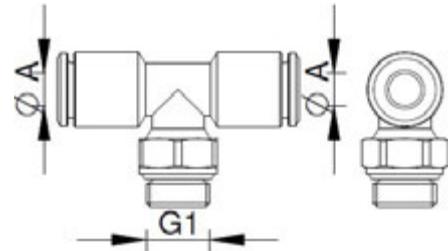
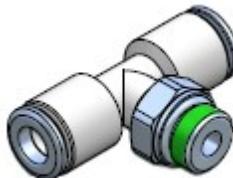
Article no.	A	B	Weight
CA.12.05.008	$\emptyset 6$	4 x $\emptyset 4$	12 g
CA.12.05.009	$\emptyset 8$	4 x $\emptyset 6$	17 g



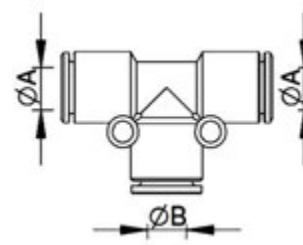
Article no.	A	G1	Weight
CA.12.05.050	$\emptyset 4$	G 1/8	13 g
CA.12.05.051	$\emptyset 6$		15 g

**. Orienting Tee male adapter (parallel) – centre leg**

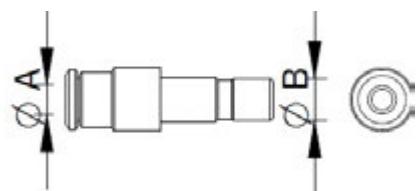
Article no.	A	G1	Weight
CA.12.05.028	$\emptyset 4$	M5	7 g
CA.12.05.029		G 1/8	9 g
CA.12.05.030	$\emptyset 6$		11 g
CA.12.05.031	$\emptyset 6$	M5	9 g

**. Tee Connector**

Article no.	A	B	Weight
CA.12.05.012	$\emptyset 4$	$\emptyset 4$	6 g
CA.12.05.013	$\emptyset 6$	$\emptyset 6$	9 g
CA.12.05.014	$\emptyset 8$	$\emptyset 8$	14 g

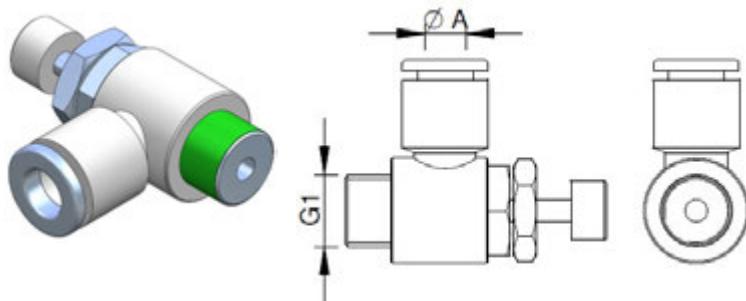
**. Reducer Junction**

Article no.	A	B	Weight
CA.12.05.035	$\emptyset 3$	$\emptyset 4$	2 g
CA.12.05.042	$\emptyset 4$	$\emptyset 6$	9 g

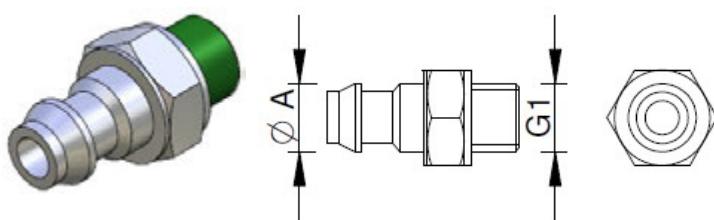


CA.12.05
PNEUMATIC
. Speed Controller

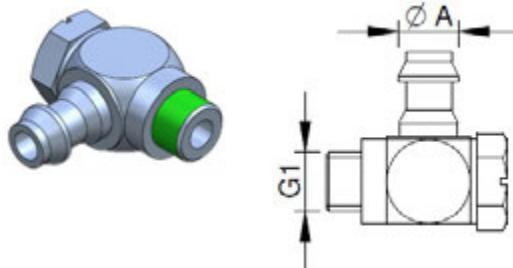
Article no.	A	G1	Weight
CA.12.05.RF1806	Ø 6	G 1/8	17 g
CA.12.05.RF1804	Ø 4		
CA.12.05.RFM504		M5	7 g
CA.12.05.RFM506	Ø 6		


. Straight fitting

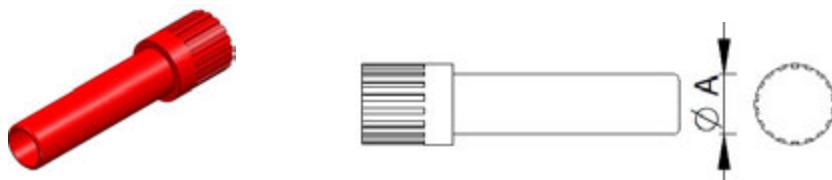
Article no.	A	G1	Weight
CA.12.05.M5AU3	Ø 3		
CA.12.05.M5AU4	Ø 4		
CA.12.05.M5AU6	Ø 6	M5	1 g


. Adjustable-position elbow fitting

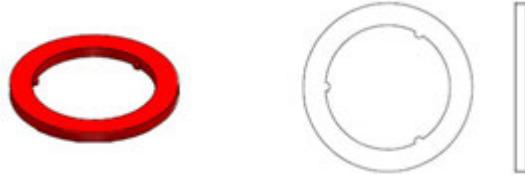
Article no.	A	G1	Weight
CA.12.05.M5ALHU3	Ø 3		
CA.12.05.M5ALHU4	Ø 4		
CA.12.05.M5ALHU6	Ø 6	M5	3 g


. Plug polyamide

Article no.	A	Weight
CA.12.05.036	Ø 4	1 g
CA.12.05.037	Ø 6	

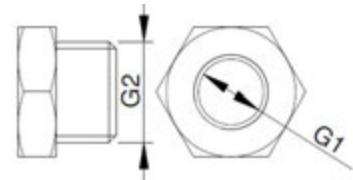
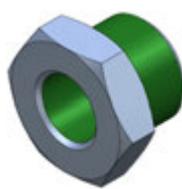


Article no.	M
CA.08.09.05	M5
CA.08.09.18	G 1/8
CA.08.09.14	G 1/4

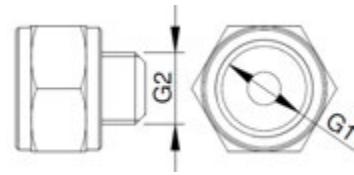


CA.08.14**PNEUMATIC****. Reducer (parallel)****. Riduzione cilindrica**

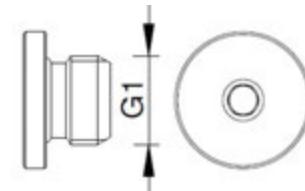
Article no.	G1	G2	Weight
CA.08.14.001	M5	G 1/8	8 g
CA.08.14.002	M6		
CA.08.14.003	G 1/8	G 1/4	11 g
CA.08.14.004	M6		13 g
CA.08.14.022	G 1/4	G 3/8	12 g



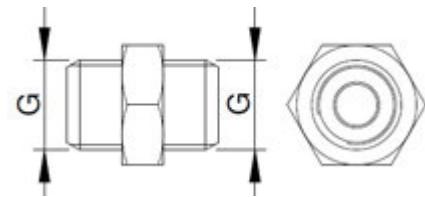
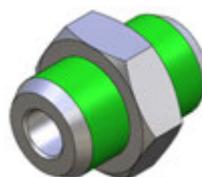
Article no.	G1	G2	Weight
CA.08.14.018	G 1/8	M5	7 g
CA.08.14.019	G 1/4	G 1/8	14 g

**. Male plug (parallel)****. Tappo testa cilindrica**

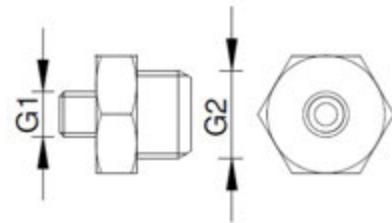
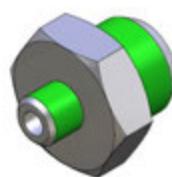
Article no.	G1	Weight
CA.08.14.013	M5	3 g
CA.08.14.014	G 1/8	4 g
CA.08.14.015	G 1/4	7 g

**. Nipple (parallel)****. Nipplo cilindrico**

Article no.	G	Weight
CA.08.14.021	M5	2 g
CA.08.14.005	G 1/8	9 g
CA.08.14.006	G 1/4	15 g

**. Nipple (parallel)****. Nipplo di riduzione cilindrica**

Article no.	G1	G2	Weight
CA.08.14.011	M5	G 1/8	8 g
CA.08.14.012	G 1/8	G 1/4	15 g

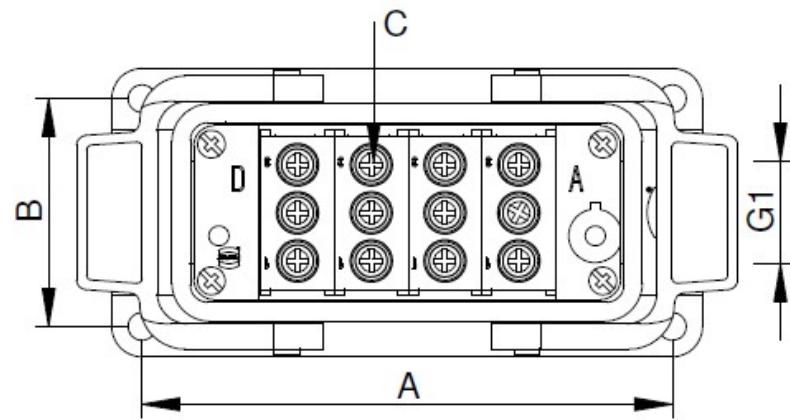
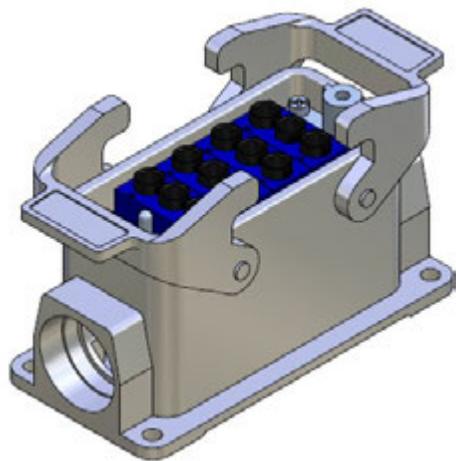


CA.12 SCAR - SCAG

. Mounting case

PNEUMATIC

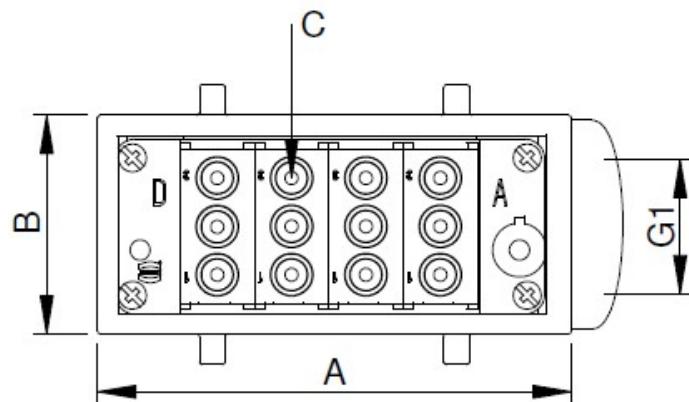
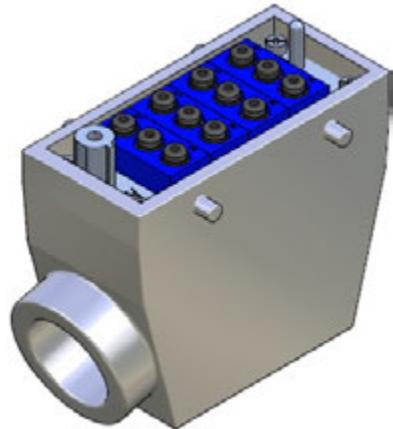
. Connessione pneumatica Harting

Robot side RS *Lato Robot*


Article no.	A	B	G1	C	Weight
CA.SCAR.12P00E	105	45	PG21	12x Ø 6	405 g

. Grommet case

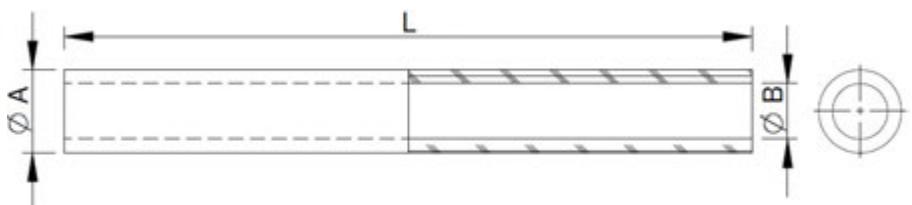
. Connessione pneumatica Harting

Gripper side GS *Lato Mano*


Article no.	A	B	G1	C	Weight
CA.SCAG.12P00E	93	43	PG21	12x Ø 6	361 g

CA.15.01**PNEUMATIC**

. Hoses

. *Tubo Poliuretano*

Article no.	Colour	A	B	L [mt]	
CA.15.01.011	Neutral	3	1.5	25 mt	
CA.15.01.010					
CA.15.01.001	Blue				
CA.15.01.004	Yellow				
CA.15.01.007	Red				
CA.15.01.019	Black				
CA.15.01.020	Green				
CA.15.01.009	Neutral				
CA.15.01.002	Blue				
CA.15.01.003	Yellow				
CA.15.01.006	Red				
CA.15.01.015	Black				
CA.15.01.014	Green				
CA.15.01.016	Gray				
CA.15.01.012	Neutral				
CA.15.01.005	Yellow				
CA.15.01.008	Red				

Table / Tabella

A = Outer diameter
*Diametro esterno***B** = Inner diameter
*Diametro interno***L** = Length
Lunghezza

Remarks / Osservazioni :

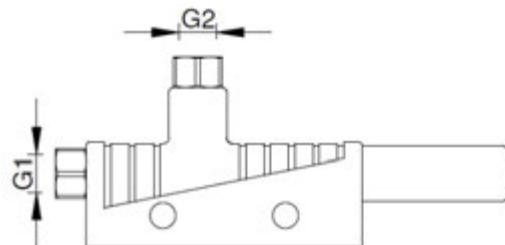
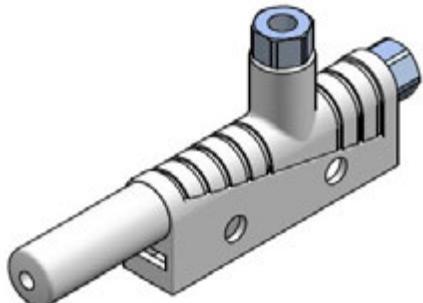
Polyurethane hose for compressed air suitable for use with push-in fittings.

Tubo in poliuretano per aria compressa adatto per l'uso con raccordi ad innesto rapido

CA.12 SBP

. Basic Ejector

PNEUMATIC

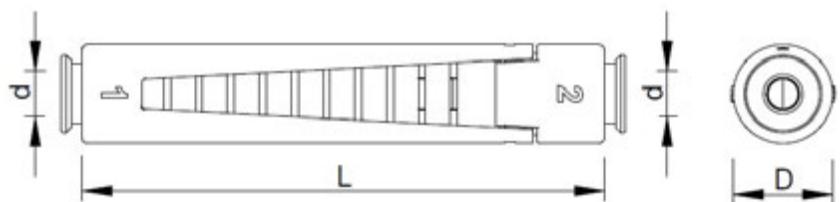
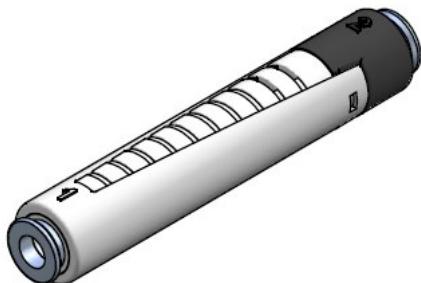
 . *Elettore base*


Article no.	G1	G2	B	\emptyset	Weight
CA.SBP.10.G02	G 1/8	G 1/8	10	1	22 g
CA.SBP.15.G02			15	1.5	
CA.SBP.20.G03	G 1/4	G 3/8	20	2.0	50 g

CA.12 SLP

. Inline Ejector

PNEUMATIC

 . *Elettore inline*


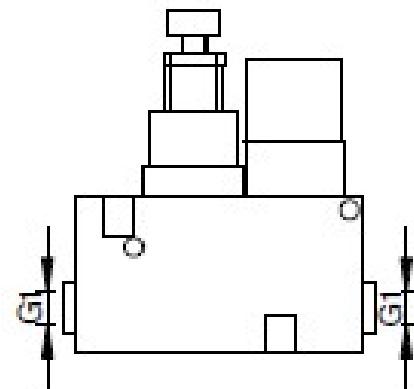
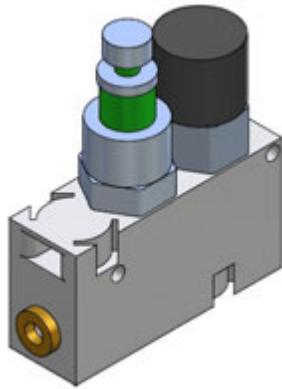
Article no.	d	D	L	\emptyset	Weight
CA.SLP.05.SI	4	10	57	0.5	5 g
CA.SLP.07.SI				0.7	

CA.11

PNEUMATIC

. Pressure Regulator

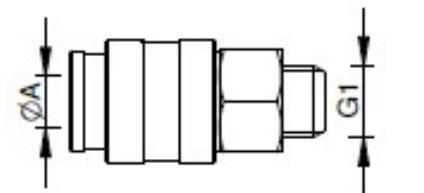
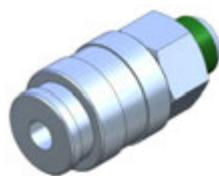
. Micro regolatore di pressione



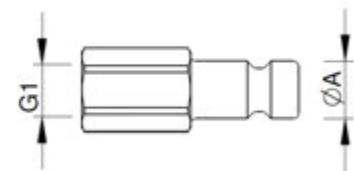
Article no.	G1	Weight
CA.11.06.001	4	30 g

CA.12
. Quick coupling socket

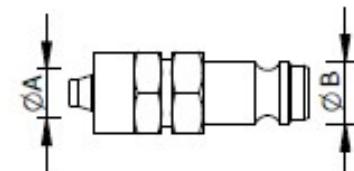
Article no.	A	G1	Weight
CA.12.06.003	2.5	M5	8 g
CA.12.06.001	5.0	G 1/8	27 g
CA.12.06.007	7	G 1/4	70 g


. Plug-In Nipple

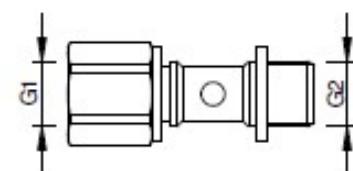
Article no.	A	G1	Weight
CA.12.06.008	2.5	M5	3 g
CA.12.06.005	5.0	G 1/8	14 g
CA.12.06.006	7	G 1/4	23 g



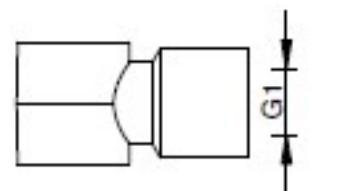
Article no.	A	B	Weight
CA.12.06.004	4	2.5	5 g
CA.12.06.002	6	5.0	18 g


. Pneumatic Hollow bolt

Article no.	G1	G2	Weight
CA.01.08.005	M5	M5	3 g
CA.01.08.003	G 1/8	G 1/8	17 g
CA.01.08.006	G 1/4	G 1/4	28 g


. Pneumatic ring connection

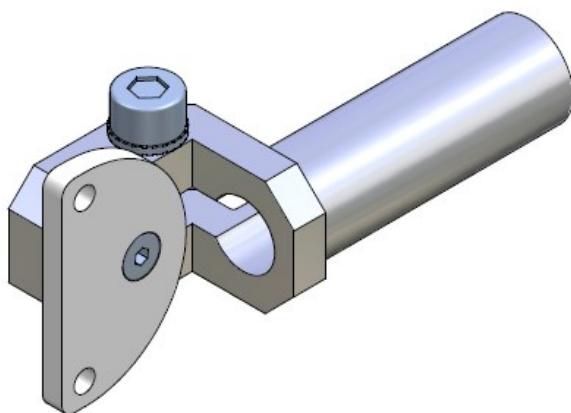
Article no.	G1	M	Weight
CA.01.08.008	M5	CA.01.08.005	6 g
CA.01.08.004	G 1/8	CA.01.08.003	15 g
CA.01.08.007	G 1/4	CA.01.08.006	20 g



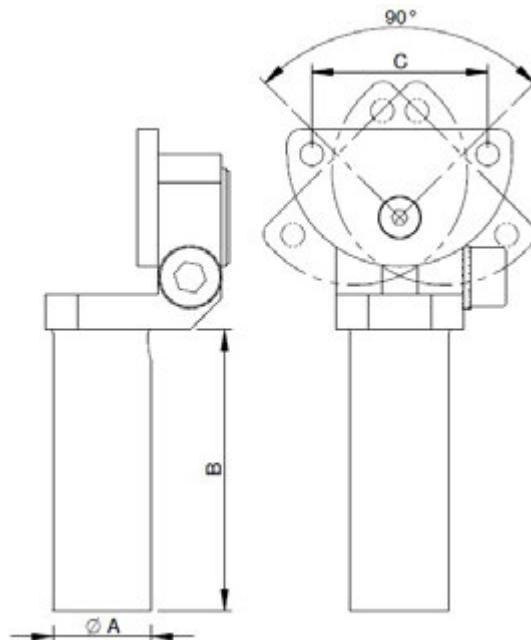
Notes/*Note*

CA.14 ATK

. Adapter for Part Control


SENSORS

. Staffa snodata per sensore



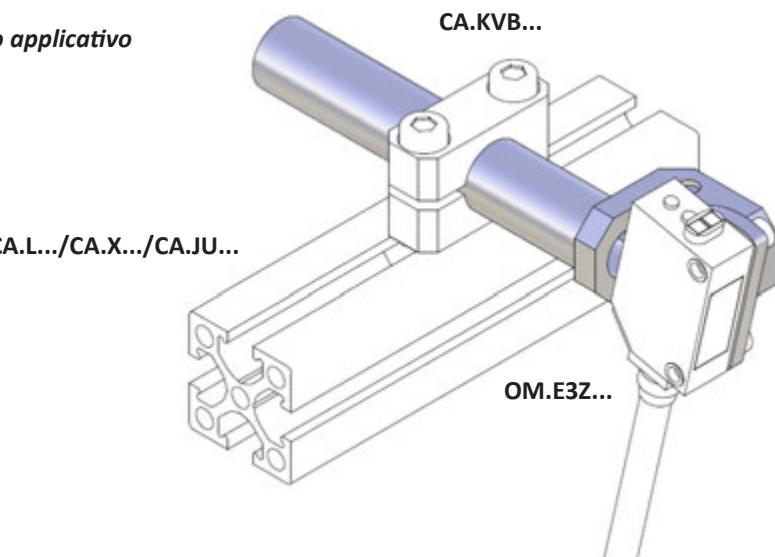
Remarks / Osservazioni:

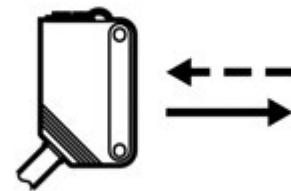
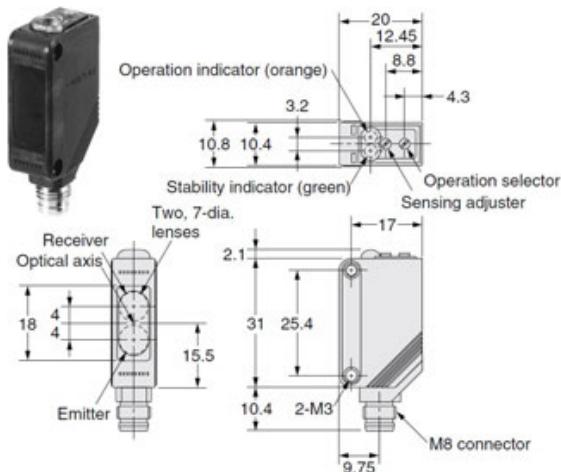
For Part Control OM.E3Z...
Per sensore OM.E3Z...

Material / Materiale :
Anodized aluminum / Alluminio anodizzato

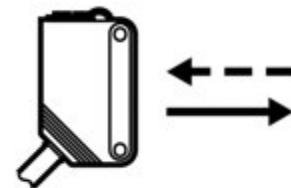
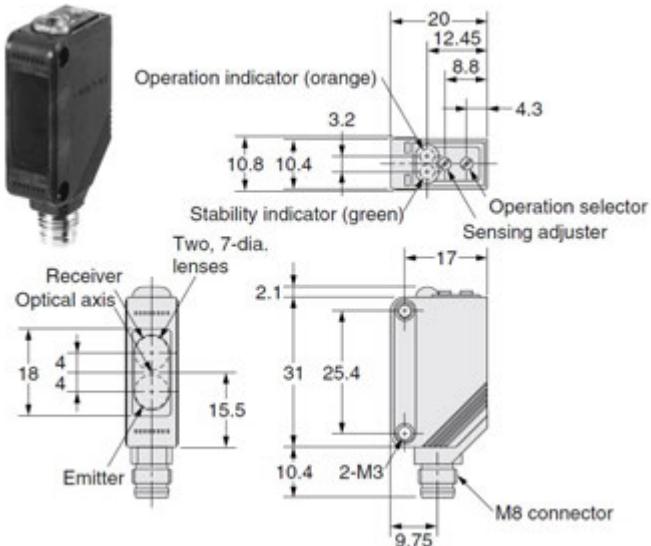
Article no.	A	B	C	Weight
CA.ATK.10.10.30	10	30	25	23 g
CA.ATK.10.10.60		60		26 g
CA.ATK.10.10.90		90		29 g
CA.ATK.10.14.40	14	40	25	36 g
CA.ATK.10.14.80		80		44 g
CA.ATK.10.14.120		120		52 g

Application example / Esempio applicativo

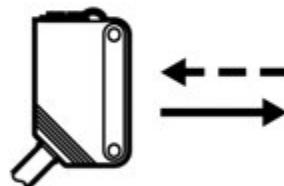
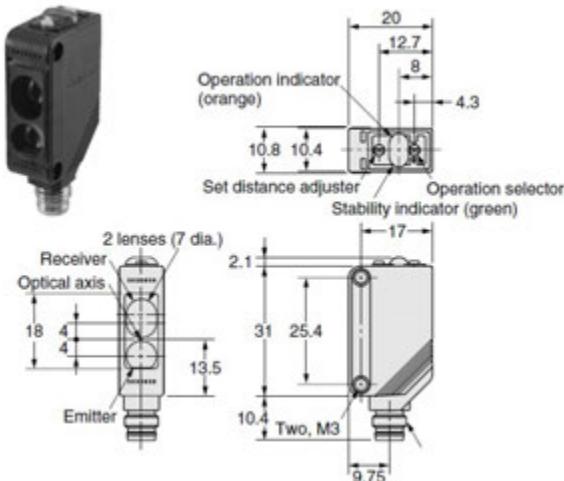


CA.14 OM.E3Z**SENSORS****. Diffuse reflective****. Fotosens. tast. diretto fascio largo**

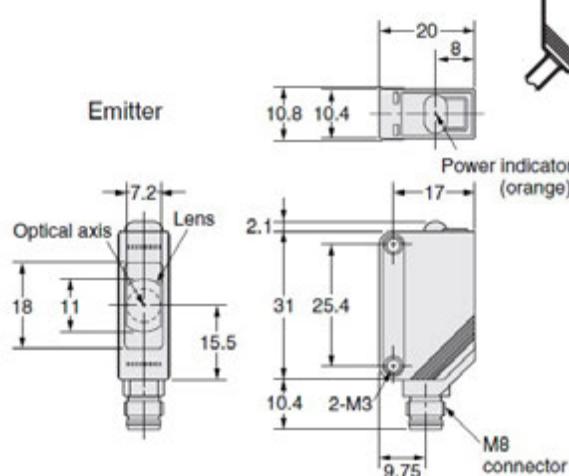
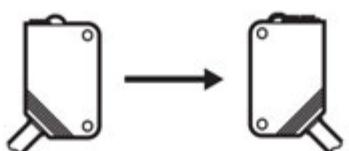
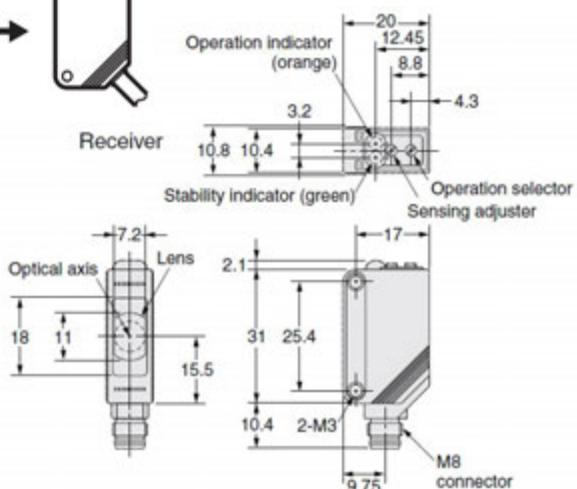
Article no.	Output	Power supply voltage	Sensor type	Sensing distance	Connector method
OM.E3Z-D86.OMS	PNP	12 to 24 VDC ±10%	Diffuse - reflective	5 to 100 mm (wide view)	Connector type M8 4pin
OM.E3Z-D66.OMS	NPN				

. Laser Thin beam type (1 mm) reflective model**. Fotosens. tast. diretto fascio 1 mm**

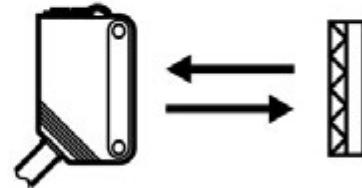
Article no.	Output	Power supply voltage	Sensor type	Sensing distance	Connector method
OM.E3Z-LL86.OMS	PNP	12 to 24 VDC ±10%	Laser Thin beam type reflective model	90 ±30 mm	Connector type M8 4pin
OM.E3Z-LL66.OMS	NPN				

CA.14 OM.E3Z
SENSORS
. Distance-settable (Laser)
. Fotosen. sopp. di sfondo regolabile


Article no.	Output	Power supply voltage	Sensor type	Sensing distance	Connector method
OM.E3Z-LS86.OMS	PNP	12 to 24 VDC ±10%	Distance-settable	30 to 200 mm	Connector type M8 7 4pin
OM.E3Z-LS66.OMS	NPN				

. Through-beam laser 1 mm

. Fotosens. spot 1 mm emett/ricev


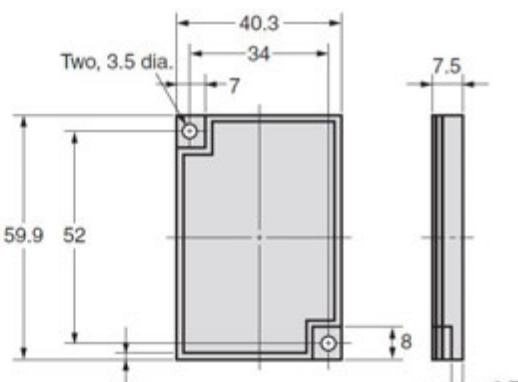
Article no.	Output	Power supply voltage	Sensor type	Sensing distance	Connector method
OM.E3Z-LT86.OMS	PNP	12 to 24 VDC ±10%	Through-beam	15 m	Connector type M8 4pin
OM.E3Z-LT66.OMS	NPN				

CA.14 OM.E3Z**SENSORS****. Retroreflective model****. Fotosens. per catarifrangente regol. fascio largo**

Article no.	Output	Power supply voltage	Sensor type	Sensing distance	Connector method
OM.E3Z-R86.OMS	PNP	12 to 24 VDC ±10%	Retroreflective model	4 m	Connector type M8 4pin
OM.E3Z-R66.OMS	NPN				

. Reflector (order separately)**. Catarifrangente per sensori**

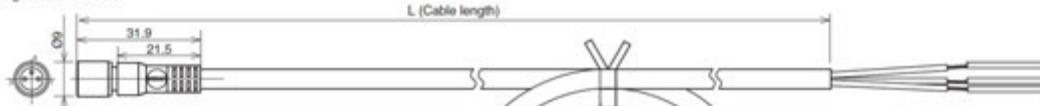
Material:

Reflective surface: acrylic
Rear surface: ABS

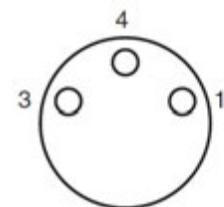
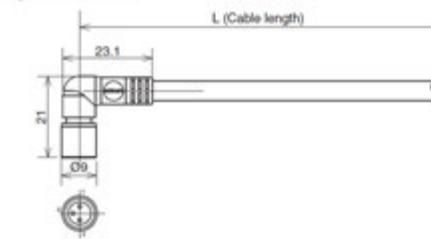
Article no.
OM.E39-R1S

CA.14 OM.XS3F
SENSORS
. M8 Screw-on cable connectors 3 - wires
. Connitori femmina M8 precablati 3 fili

Straight connectors



L-shaped connectors


 1 = brown
 3 = blue
 4 = black

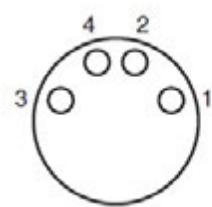
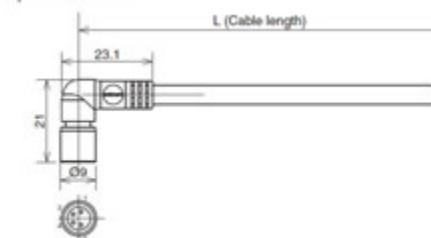
Article no.	Type	Size	Features	Cable length
OM.XS3F.M83S5M	Straight connector	M8	3 - wires	5 m
OM.XS3F.M83A5M	L - shaped connectors			

. M8 Screw-on cable connectors 4 - wires
. Connitori femmina M8 precablati 4 fili

Straight connectors



L-shaped connectors

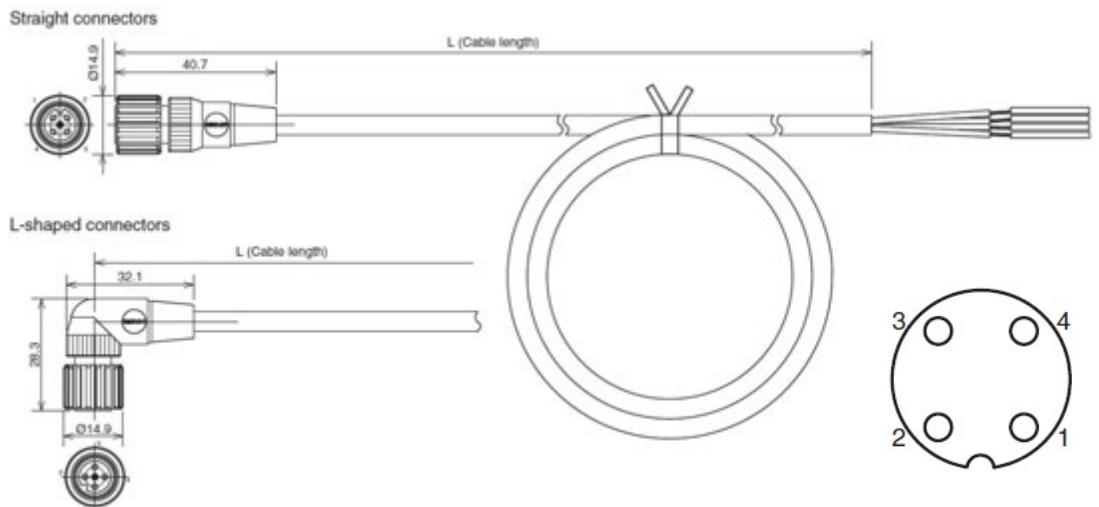

 1 = brown
 2 = white
 3 = blue
 4 = black

Article no.	Type	Size	Features	Cable length
OM.XS3F.M84S5M	Straight connector	M8	4 - wires	5 m
OM.XS3F.M84A5M	L - shaped connectors			

CA.14 OM.XS2F**SENSORS**

. M12 Screw-on cable connectors 4 - wires

. Connettori femmina M12 precablati 4 fili

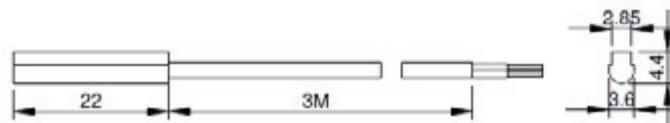
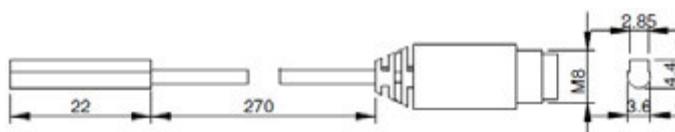


Article no.	Type	Size	Features	Cable length
OM.XS2F.M124S5M	Straight connector	M12	4 - wires	5 m
OM.XS2F.M124A5M	L - shaped connectors			

CA.14 KT
SENSORS

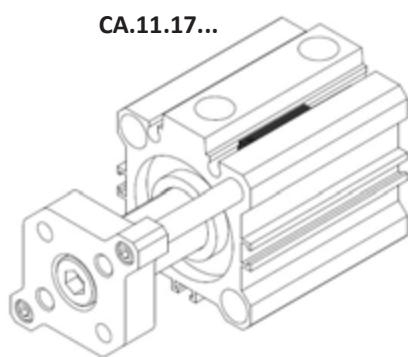
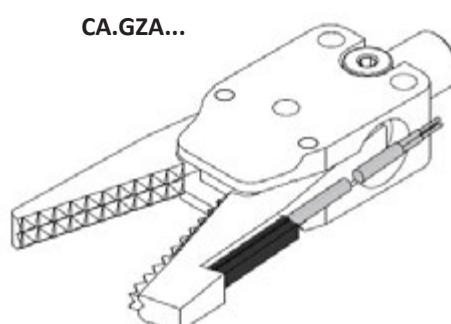
.b. Sensor

.b. Sensore


KT58P3M/KT58N3M

KT58PM8/KT58NM8


Article no.	Sensor with cable	Weight
KT58PM8	3 wires electronic PNP normally Open M8 plug connector	4 g
KT58P3M	3 wires electronic PNP normally Open mt 3 cable	
KT58NM8	3 wires electric NPN normally Open M8 plug connector	
KT58N3M	3 wires electronic NPN normally Open mt 3 cable	
KT58REQD	2 wires Reed Switch Normally Open M8 plug connector	

Application examples / Esempi applicativi


CA.11.17...

CA.GZA...

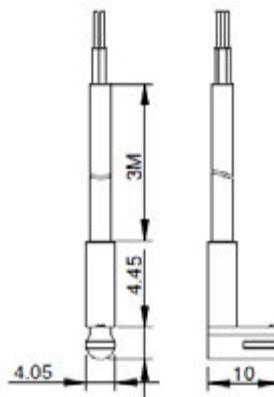
CA.14 KT

SENSORS

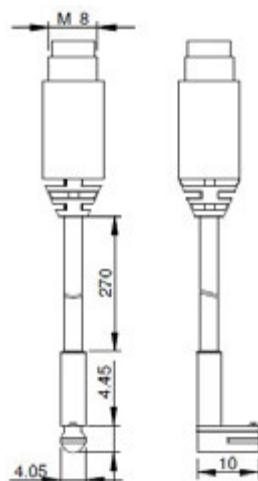
. Sensor



KT38P3M/KT38N3M

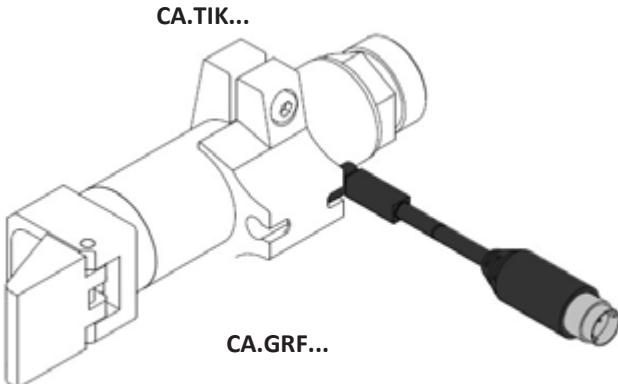
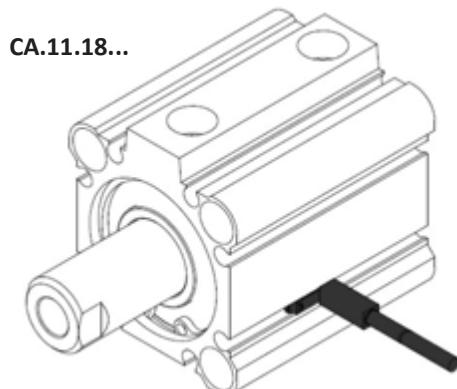


KT38PM8/KT38NM8

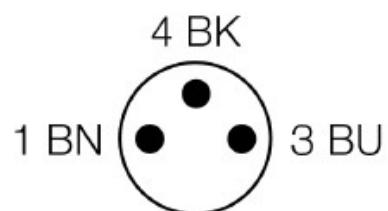
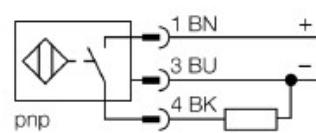
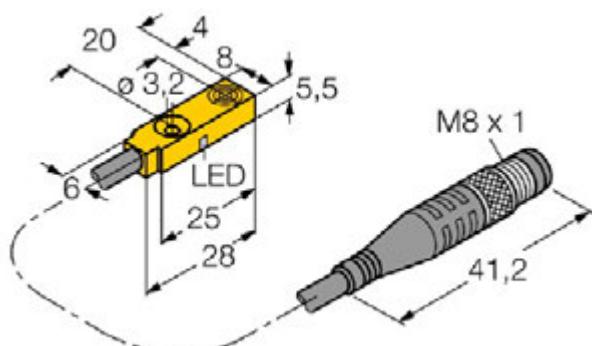


Article no.	Sensor with cable	Weight
KT38PM8	3 wires electronic PNP normally Open M8 plug connector	4 g
KT38P3M	3 wires electronic PNP normally Open mt 3 cable	
KT38NM8	3 wires electroic NPN normally Open M8 plug connector	
KT38N3M	3 wires electronic NPN normally Open mt 3 cable	

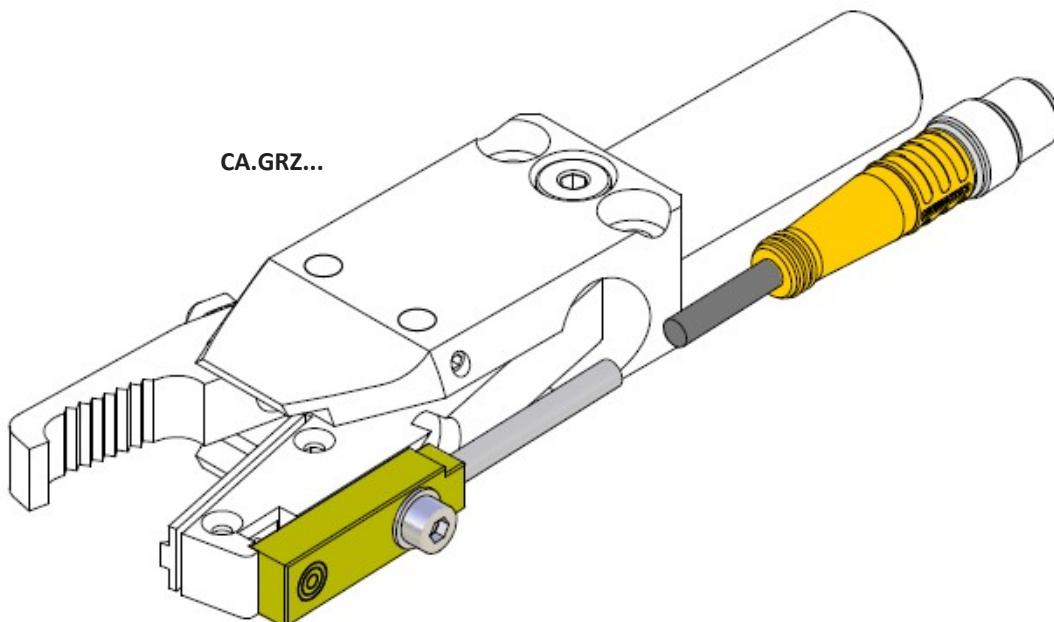
Application examples / Esempi applicativi



CA.GRF...

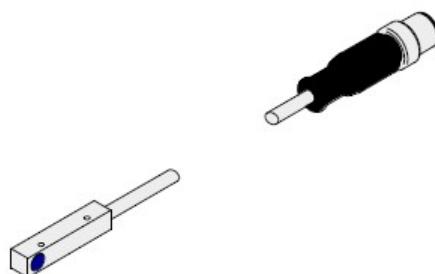
CA.14 GRZ
SENSORS
. Sensor
. Sensore


Article no.	Sensor with cable	Weight
GRZ.20.SC.PNP	INDUCTIVE SENSOR PNP normally OpenM8 plug connector	4 g
GRZ.20.SC.NPN	INDUCTIVE SENSOR NPN normally CloseM8 plug connector	

Application example / Esempio applicativo


CA.14 MMD

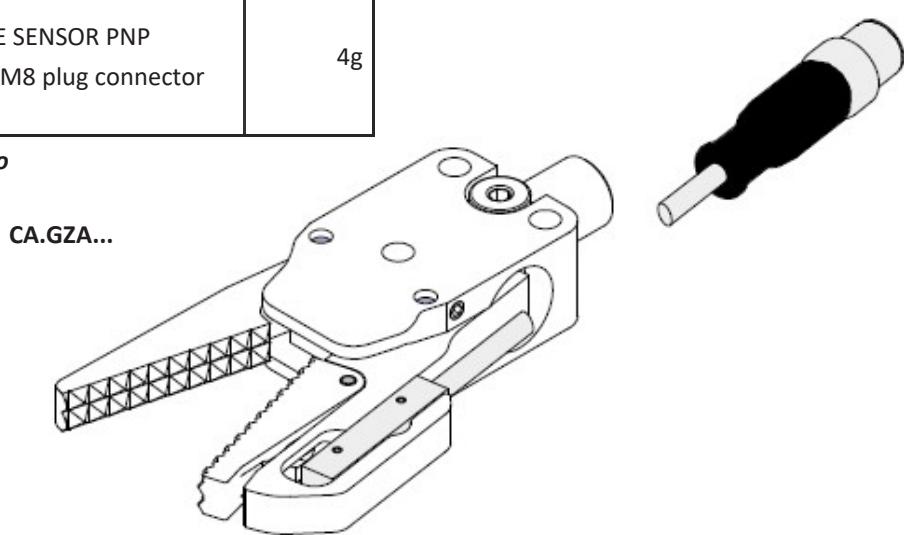
. Sensor



. Sensore

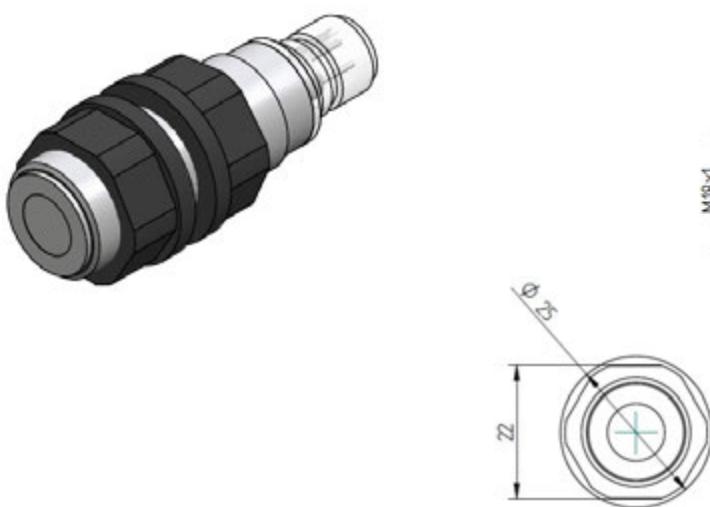
Article no.	Sensor with cable	Weight
MMD.IL5AP3AVF80	INDUCTIVE SENSOR PNP normally Open M8 plug connector	4g
MMD.IL5AN3AVF80		

Application example / Esempio applicativo

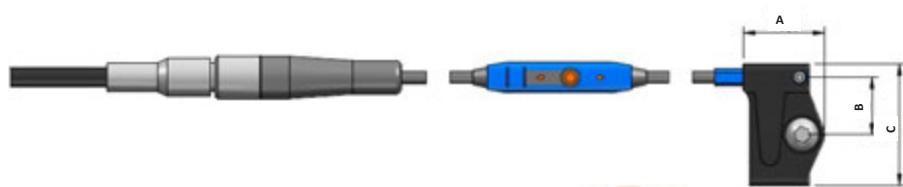


. Ultrasonic sensor

. Sensori ultrasonici



Article no.	Output	Sensor Type	Sensing distance	Connector method	
MMD.UK6AHN0EUL	NPN	Ultrasonic sensor	40 mm	Connector type M12 4pin	65 g
MMD.UK6AHP0EUL	PNP				

CA.SCP
SENSORS
. Sensor
. Sensore


Article no.	A	B	C	D	E	F
CA.SCP.1008	17	12	25	5	M4	18
CA.SCP.1012	20	16	32	6	M5	25

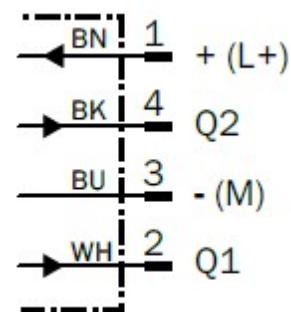
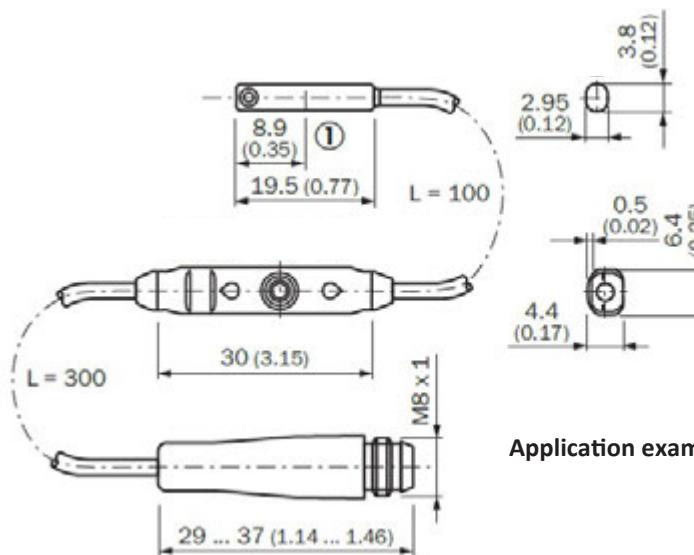


Remarks / Osservazioni:

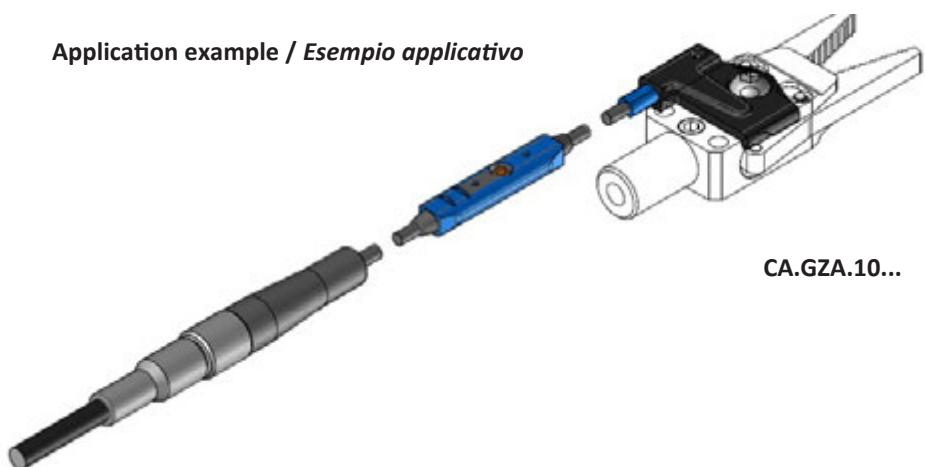
Adjustment indicator for positioning the sensor centrally Teaching in switching points 1 and 2

Indicatore della regolazione per il posizionamento centrale del sensore. Definire il teach dei punti di commutazione 1 e 2

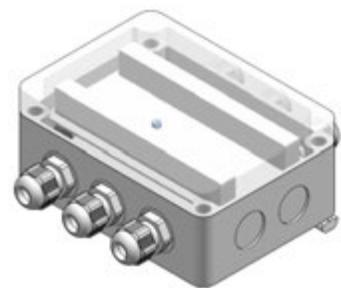
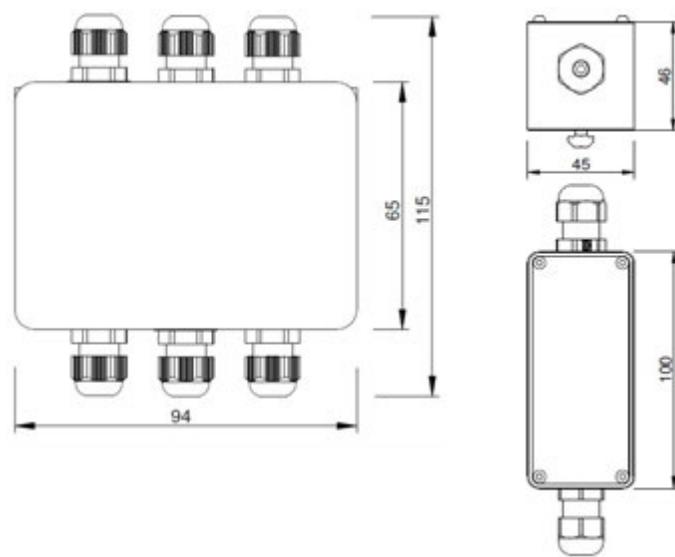
Article no.	Output	Sensor Type	Sensing distance	Connector method	Weight
CA.SCP.1008	PNP	Magnetic sensor	0mm - 50mm	Connector type M8 4pin	65 g
CA.SCP.1012					



Application example / Esempio applicativo



CA.GZA.10...

CA.SDS**SENSORS****. Sensor box****. Scatola derivazione sensori**

Remarks / Osservazioni:

Used for sensor wiring on the EOAT.
Usata per il cablaggio dei sensori degli EOAT..

PNP and NPN signals can be converted.
I segnali PNP e NPN possono essere convertiti.

I/O can be current sourcing (PNP), sinking (NPN) or dry contact.
Ingressi e uscite possono essere di tipo source (PNP), sink (NPN) o contatto pulito.

Several boxes can be connected in a series to manage more sensors.
Più scatole possono essere connesse in serie per ampliare il numero di sensori gestibili.

Input LED indications for easy trouble-shooting.
LED a ripetizione del segnale in ingresso per semplificare la ricerca dei guasti

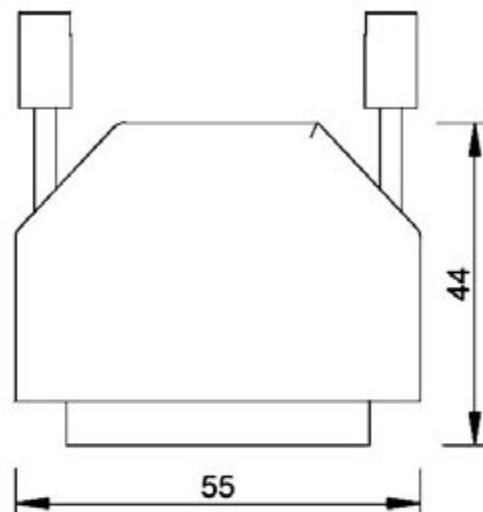
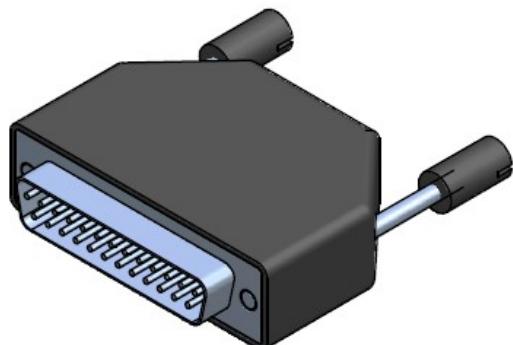
Supplied with Cable Glands
Fornita con serracavi

CA.SDS.02

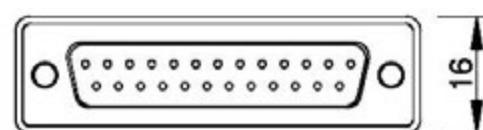
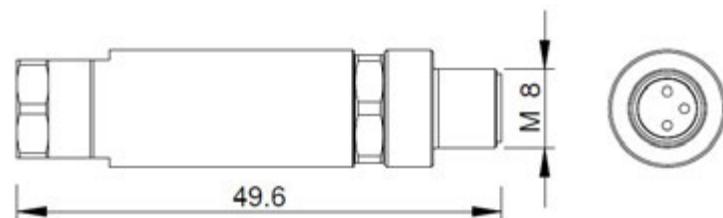
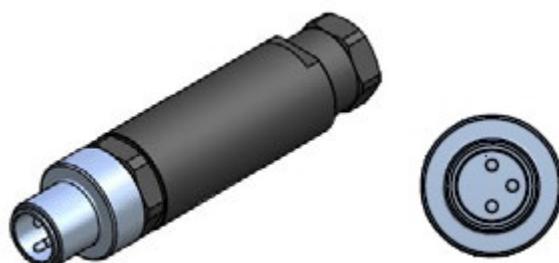
Article no.	Power supply	INputs	OUTputs
CA.SDS.02	24 V dc (+/- 10%)	Maximum 2 PNP, NPN or dry contact (NO or NC) sensor switched by jumper <i>Massimo 2 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>	1 up to 2 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers <i>Da 1 fino a 2 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>
CA.SDS.04		Maximum 4 PNP, NPN or dry contact (NO or NC) sensor switched by jumper <i>Massimo 4 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>	1 up to 4 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers <i>Da 1 fino a 4 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>
CA.SDS.06		Maximum 6 PNP, NPN or dry contact (NO or NC) sensor switched by jumper <i>Massimo 6 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>	1 up to 6 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers <i>Da 1 fino a 6 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>
CA.SDS.08		Maximum 8 PNP, NPN or dry contact (NO or NC) sensor switched by jumper <i>Massimo 8 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>	1 up to 8 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers <i>Da 1 fino a 8 PNP, NPN o contatto asciutto (NO o NC) sensore cambiato dal ponticello</i>

CA.19.03

. Connector 25 pin

 . *Presa 25 pin*


Article no.		Weight
CA.19.03.001	25 pin M	10 g

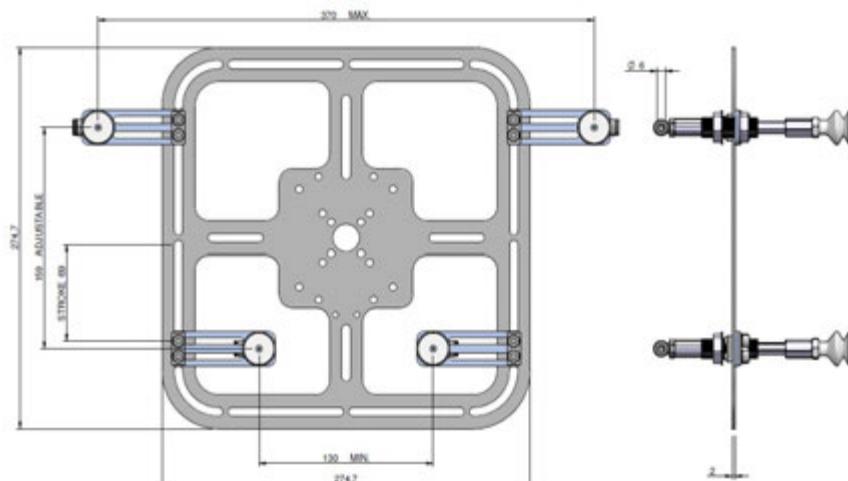
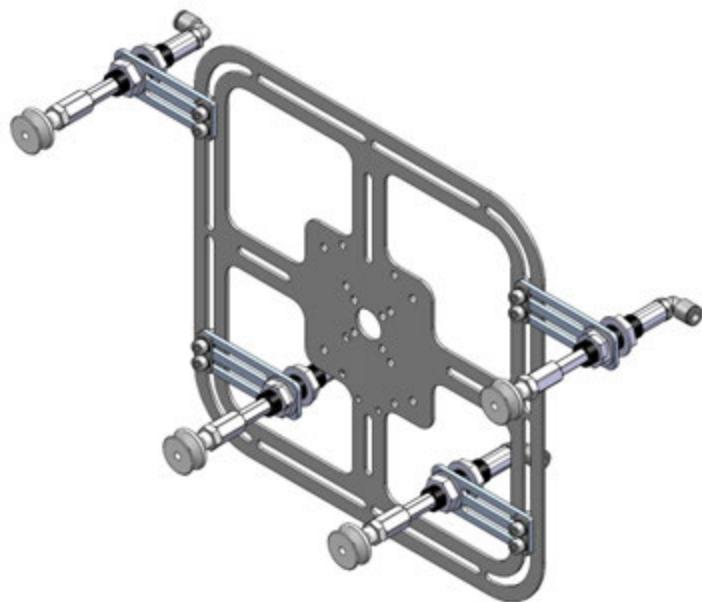

PAX


Article no.		Weight
PAX.1501252	M8 3P M	15 g

KIT.MA01

. Kit End of Arm Tooling

. Kit mano di presa

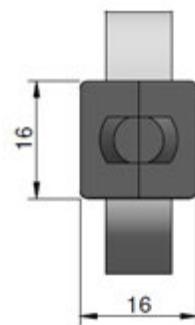
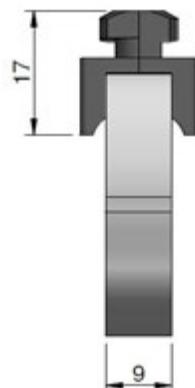


COMPONENTS	DESCRIPTION	QUANTITY
CA.04.20.14.X	Mounting Bracket 14x	4
CA.08.09.009	Adapters for vacuum cups 18 6	
CA.08.30.005	Vacuum Cup with 2 bellows only (silicone) 25	
CA.12.05.003	Orienting elbow male adapter (parallel) 6 18	
CA.SDNG.1420	Threaded-body non-rotative suspension1420	
PIA.275X275X2	Basic EOAT Plate 275x275x2 inox	1

CA.KBS

. Cable Tie

. Kabelbinderblock



Remarks / Osservazioni:

Material :Plastic—Velcro

Materiale: Plastica - Velcro

Article no.	Weight
CA.KBS	8 g
CA.KBS.X	2 g

Application example / Esempio applicativo

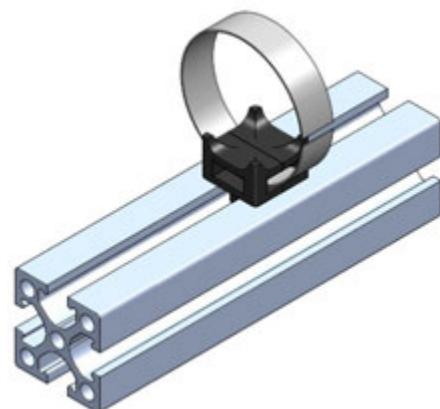
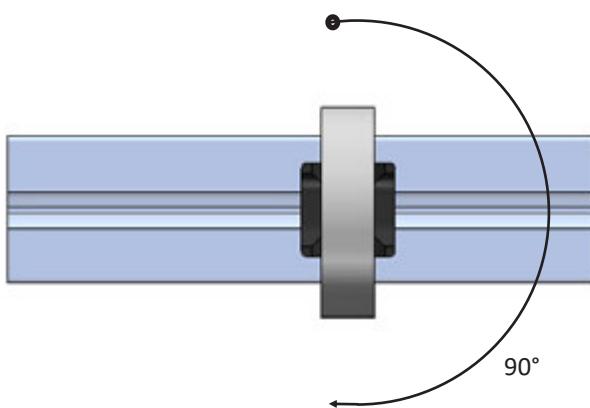


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<u>CA.01.01.002</u>	<u>16</u>	<u>CA.05.01.001</u>	<u>81</u>	<u>CA.08.26.D33.AS</u>	<u>114</u>	<u>CA.08.32.D52</u>	<u>110</u>	<u>CA.09.13.05.15</u>	<u>182</u>
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<u>CA.01.01.007</u>	<u>26</u>	<u>CA.05.01.005</u>	<u>81</u>	<u>CA.08.26.D78.AS</u>	<u>114</u>	<u>CA.08.33.D20</u>	<u>122</u>	<u>CA.09.13.15.35</u>	<u>182</u>
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<u>CA.01.01.009</u>	<u>22</u>	<u>CA.05.01.006</u>	<u>81</u>	<u>CA.08.28.002</u>	<u>118</u>	<u>CA.08.33.D32</u>	<u>122</u>	<u>CA.09.13.20.45</u>	<u>182</u>
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<u>CA.01.01.012</u>	<u>23</u>	<u>CA.05.01.010</u>	<u>81</u>	<u>CA.08.28.004</u>	<u>118</u>	<u>CA.08.33.D5</u>	<u>122</u>	<u>CA.09.14.06</u>	<u>184</u>
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<u>CA.01.01.016</u>	<u>24</u>	<u>CA.05.02.002</u>	<u>80</u>	<u>CA.08.28.009</u>	<u>118</u>	<u>CA.08.36.D10</u>	<u>128</u>	<u>CA.09.14.14.S</u>	<u>184</u>
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<u>CA.01.08.007</u>	<u>240</u>	<u>CA.08.03.005</u>	<u>126</u>	<u>CA.08.30.003</u>	<u>120</u>	<u>CA.08.39.007</u>	<u>112</u>	<u>CA.09.15.008</u>	<u>186</u>
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<u>CA.04.02.14.X</u>	<u>62</u>	<u>CA.08.03.008</u>	<u>126</u>	<u>CA.08.30.006</u>	<u>120</u>	<u>CA.08.40.002</u>	<u>116</u>	<u>CA.09.16.003</u>	<u>186</u>
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<u>CA.04.02.30.X</u>	<u>62</u>	<u>CA.08.03.010</u>	<u>126</u>	<u>CA.08.30.008</u>	<u>120</u>	<u>CA.08.40.004</u>	<u>116</u>	<u>CA.09.16.005</u>	<u>186</u>
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<u>CA.04.10.005</u>	<u>210</u>	<u>CA.08.09.05</u>	<u>234</u>	<u>CA.08.30.010</u>	<u>120</u>	<u>CA.08.40.006</u>	<u>116</u>	<u>CA.09.16.007</u>	<u>186</u>
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CA.GPR1.0	14	CA.GSEG.201445	95	CA.GWP.5.75	35	CA.GZA.10.12.S	142	CA.KHZ.20143005	227		
CA.GPR2.1	14	CA.GSEG.201490	95	CA.GWP.5.9	35	CA.GZA.10.12.S4	142	CA.KHZ.32201518	226		
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CA.GRF.1435	158	CA.GTS.1003.1214	134	CA.GWP.500	35	CA.GZA.10.12.S9	142	CA.KHZ.32203018	226		
CA.GRF.1490	158	CA.GTS.1003.1215	134	CA.GWP.5U	35	CA.GZA.10.12.S9N	142	CA.KHZ.32203018	227		
CA.GRF.1495	158	CA.GTS.1003.125N	134	CA.GWP.6.12	35	CA.GZA.10.12.SG	142	CA.KHZ.32205018	226		
CA.GRF.1495.G	158	CA.GTS.1003.1415	134	CA.GWP.6.16	35	CA.GZA.10.12.SGN	142	CA.KHZ.32205018	227		
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CA.GRF.1495.VSX	111	CA.GTS.1003.1717	134	CA.GWP.6.22	35	CA.GZA.AA24	171	CA.KKS.14.14	50		
CA.GRF.2035	158	CA.GTS.1003.1915	134	CA.GWP.6.25	35	CA.GZA.AA24.NO	171	CA.KKS.20.10	50		
CA.GRF.2035.WE	158	CA.GTS.1003.1919	134	CA.GWP.6.25.3	35	CA.GZA.AA24.NOS2	171	CA.KKS.20.14	50		
CA.GRF.2090	158	CA.GTS.1003.195N	134	CA.GWP.6.28	35	CA.GZA.AA24.NOSN	171	CA.KKS.20.20	50		
CA.GRF.2095	158	CA.GTS.1003.2929	134	CA.GWP.6.35	35	CA.GZA.AA24.NOSP	171	CA.KKS.L.2020	51		
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CA.GRF.2095.GW	158	CA.GTS.1004.1214	138	CA.GWP.6.50	35	CA.JDR.141005	228	CA.KKS.L.2525	51		
CA.GRF.2095.VSX	166	CA.GTS.1004.1215	138	CA.GWP.6.52	35	CA.JDR.141005	229	CA.KKS.L.4020	51		
CA.GRF.3035	158	CA.GTS.1004.125N	138	CA.GWP.6.90	35	CA.JDR.142505	228	CA.KKS.L.4025	51		
CA.GRF.3035.WE	158	CA.GTS.1004.1415	138	CA.GWP.6.LM	35	CA.JDR.142505	229	CA.KKS.L.4040	51		
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CA.GRF.3095	158	CA.GTS.1004.1717	138	CA.GZ.32	190	CA.JDR.201005	229	CA.KPLJU.4040	40		
CA.GRF.3095.G	158	CA.GTS.1004.1919	138	CA.GZ.32.FING.S	188	CA.JDR.301518	228	CA.KPLJU.8040	40		
CA.GRF.3095.GW	158	CA.GTS.1004.2929	138	CA.GZ.32.S	188	CA.JDR.301518	229	CA.KPLJU.8080	40		
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CA.GSE.141818120	94	CA.GWP.4U	35	CA.GZA.10.12.18	142	CA.KBH.20.14.90	221	CA.L.1810.1000G	30		
CA.GSE.14181840	94	CA.GWP.5.10	35	CA.GZA.10.12.19	142	CA.KBH.20.16.125	221	CA.L.1810.2000	30		
CA.GSE.14181880	94	CA.GWP.5.11	35	CA.GZA.10.12.AH	142	CA.KBH.25.16.125	221	CA.L.1810.2000G	30		
CA.GSE.201418100	94	CA.GWP.5.12	35	CA.GZA.10.12.AHG	142	CA.KBH.32.20.125	221	CA.L.1818.1000	30		
CA.GSE.201418150	94	CA.GWP.5.15	35	CA.GZA.10.12.AHL	142	CA.KBS	256	CA.L.1818.1000G	30		
CA.GSE.20141850	94	CA.GWP.5.17	35	CA.GZA.10.12.AHT	142	CA.KBS.X	256	CA.L.1818.2000	30		
CA.GSE.301414140	94	CA.GWP.5.20	35	CA.GZA.10.12.AHV	142	CA.KBVJU.4040	41	CA.L.1818.2000G	30		
CA.GSE.301414200	94	CA.GWP.5.22	35	CA.GZA.10.12.ATG	142	CA.KBVJU.4080	41	CA.LAL.1.5	11		
CA.GSE.30141480	94	CA.GWP.5.25	35	CA.GZA.10.12.C	142	CA.KBVJU.8040	41	CA.LAL.1.7	11		
CA.GSEG.100515	95	CA.GWP.5.25.3	35	CA.GZA.10.12.G	142	CA.KBVL.1810	41	CA.LAL.2.5	11		
CA.GSEG.100530	95	CA.GWP.5.28	35	CA.GZA.10.12.G50	142	CA.KBVL.1818	41	CA.LAL.2.7	11		
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CA.GSEG.100590	95	CA.GWP.5.35	35	CA.GZA.10.12.LL	142	CA.KBVL.2518	41	CA.LAL.3.8	11		
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FS.DHEB18EDEL/USL	181	KIT.08.26.D43.11	115	KIT.08.31.D20.9	109	KIT.08.39.L12.40	113	VES.N20AJ	205
FS.DHEB18EUEL/USL	181	KIT.08.26.D43.21	115	KIT.08.31.D22.4	109	KIT.08.39.L15.28	113	VES.N20AJL	205
FS.DHEB22EDEL/DSL	181	KIT.08.26.D53.11	115	KIT.08.31.D22.9	109	KIT.08.39.L18.28	113	VES.N20AP	205
FS.DHEB22EUEL/USL	181	KIT.08.26.D53.21	115	KIT.08.31.D25.4	109	KIT.08.39.L24.27	113	VES.N20PF	205
FS.DHEB27EDEL/DSL	181	KIT.08.26.D63.11	115	KIT.08.31.D25.9	109	KIT.08.39.L30.27	113	VES.N30AJ	205
FS.DHEB27EUEL/USL	181	KIT.08.26.D63.21	115	KIT.08.31.D33.11	109	KIT.08.39.L45.41	113	VES.N30AJL	205
FS.DHEB33EDEL/DSL	181	KIT.08.26.D78.24	115	KIT.08.31.D33.21	109	KIT.08.39.L60.41	113	VES.N30AP	205
FS.DHEB33EUEL/USL	181	KIT.08.28.D05	119	KIT.08.31.D43.11	109	KIT.08.39.L75.41	113	VES.N30PF	205
FS.DHEB41EDEL/DSL	181	KIT.08.28.D06	119	KIT.08.31.D43.21	109	KIT.08.40.L12.40	117	VES.N5AP	205
FS.DHEB41EUEL/USL	181	KIT.08.28.D08	119	KIT.08.31.D53.11	109	KIT.08.40.L15.28	117		
FS.DHEB51EDEL/DSL	181	KIT.08.28.D10	119	KIT.08.31.D53.21	109	KIT.08.40.L18.28	117		
FS.DHEB51EDEL/DSL	181	KIT.08.28.D15	119	KIT.08.31.D63.21	109	KIT.08.40.L24.27	117		
FS.DHEB63EDEL/DSL	181	KIT.08.28.D20	119	KIT.08.31.D78.24	109	KIT.08.40.L30.27	117		
FS.DHEB63EUEL/USL	181	KIT.08.28.D25	119	KIT.08.32.D09.26	111	KIT.08.40.L45.41	117		
FS.DHEB8EDEL/DSL	181	KIT.08.28.D30	119	KIT.08.32.D12.4	111	KIT.08.40.L60.41	117		
FS.DHEB8EUEL/USL	181	KIT.08.28.D35	119	KIT.08.32.D12.9	111	KIT.08.40.L75.41	117		
GRF14.95.0708	169	KIT.08.28.D40	119	KIT.08.32.D14.4	111	KIT.MA01	255		
GRF14.95.08.V	169	KIT.08.28.D50	119	KIT.08.32.D14.9	111	KT38N3M	249		
GRF14.95.08.V	175	KIT.08.28.D60	119	KIT.08.32.D20.4	111	KT38NM8	249		
GRF14.VSX	170	KIT.08.28.D80	119	KIT.08.32.D20.9	111	KT38P3M	249		
GRF20.95.0708	169	KIT.08.29.D05	107	KIT.08.32.D25.4	111	KT38PM8	249		
GRF20.95.08.V	169	KIT.08.29.D06	107	KIT.08.32.D25.9	111	KT58N3M	248		
GRF20.95.08.V	175	KIT.08.29.D08	107	KIT.08.32.D32.11	111	KT58NM8	248		
GRF20.VSX	170	KIT.08.29.D10	107	KIT.08.32.D32.21	111	KT58P3M	248		
GRF30.95.0708	169	KIT.08.29.D15	107	KIT.08.32.D42.11	111	KT58PM8	248		
GRF30.95.0708.40	169	KIT.08.29.D20	107	KIT.08.32.D42.21	111	KT58REQD	248		
GRF30.95.08.V	169	KIT.08.29.D25	107	KIT.08.32.D52.21	111	M.28X58.24N	13		
GRF30.95.08.V	169	KIT.08.29.D30	107	KIT.08.32.D62.21	111	M.33X120.35N	13		
GRF30.VSX	170	KIT.08.29.D30	107	KIT.08.33.D12.4	123	MMD.IL5AN3AVF80	249		
GRZ.20.SC.NPN	250	KIT.08.29.D35	107	KIT.08.33.D12.9	123	MMD.IL5AN3AVF80	251		
GRZ.20.SC.PNP	250	KIT.08.29.D40	107	KIT.08.33.D14.4	123	MMD.IL5AP3AVF80	49		
KIT.08.01.D11.4	125	KIT.08.29.D50	107	KIT.08.33.D14.9	123	MMD.IL5AP3AVF80	251		
KIT.08.01.D11.9	125	KIT.08.29.D60	107	KIT.08.33.D20.4	123	MMD.UK6AHNOEUL	251		
KIT.08.01.D16.4	125	KIT.08.29.D80	107	KIT.08.33.D20.9	123	MMD.UK6AHP0EUL	251		
KIT.08.01.D16.9	125	KIT.08.30.D06.14	121	KIT.08.33.D32.21	123	OM.E39-R1S	245		
KIT.08.01.D20.1	125	KIT.08.30.D11.4	121	KIT.08.33.D25.4	123	OM.E3Z-D66.OMS	243		
KIT.08.01.D30.2	125	KIT.08.30.D11.9	121	KIT.08.33.D25.9	123	OM.E3Z-D86.OMS	243		
KIT.08.01.D40.2	125	KIT.08.30.D14.4	121	KIT.08.33.D32.11	123	OM.E3Z-LL66.OMS	243		
KIT.08.01.D50.3	125	KIT.08.30.D14.9	121	KIT.08.33.D32.21	123	OM.E3Z-LL86.OMS	243		
KIT.08.03.D06.5	127	KIT.08.30.D16.4	121	KIT.08.33.D42.11	123	OM.E3Z-LS66.OMS	244		
KIT.08.03.D08.6	127	KIT.08.30.D16.9	121	KIT.08.33.D42.21	123	OM.E3Z-LS86.OMS	244		
KIT.08.03.D10.4	127	KIT.08.30.D20.4	121	KIT.08.33.D5.25	123	OM.E3Z-LT66.OMS	244		
KIT.08.03.D10.9	127	KIT.08.30.D20.9	121	KIT.08.33.D52.11	123	OM.E3Z-LT86.OMS	244		
KIT.08.03.D12.4	127	KIT.08.30.D25.4	121	KIT.08.33.D52.21	123	OM.E3Z-R66.OMS	245		
KIT.08.03.D12.9	127	KIT.08.30.D25.9	121	KIT.08.33.D60.21	123	OM.E3Z-R86.OMS	245		
KIT.08.03.D15.4	127	KIT.08.30.D33.11	121	KIT.08.33.D7.26	123	OM.XS2F.M124A5M	247		
KIT.08.03.D15.9	127	KIT.08.30.D33.21	121	KIT.08.33.D9.26	123	OM.XS2F.M124S5M	247		
KIT.08.03.D20.4	127	KIT.08.30.D43.11	121	KIT.08.36.D10	129	OM.XS3F.M83A5M	246		
KIT.08.03.D20.9	127	KIT.08.30.D43.21	121	KIT.08.36.D10.60	129	OM.XS3F.M83S5M	246		
KIT.08.03.D25.10	127	KIT.08.30.D53.11	121	KIT.08.36.D15	129	VES.N30AP	195		



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