

FP SERVICES

AUTOMATION

2018



Product overview



Produktübersicht



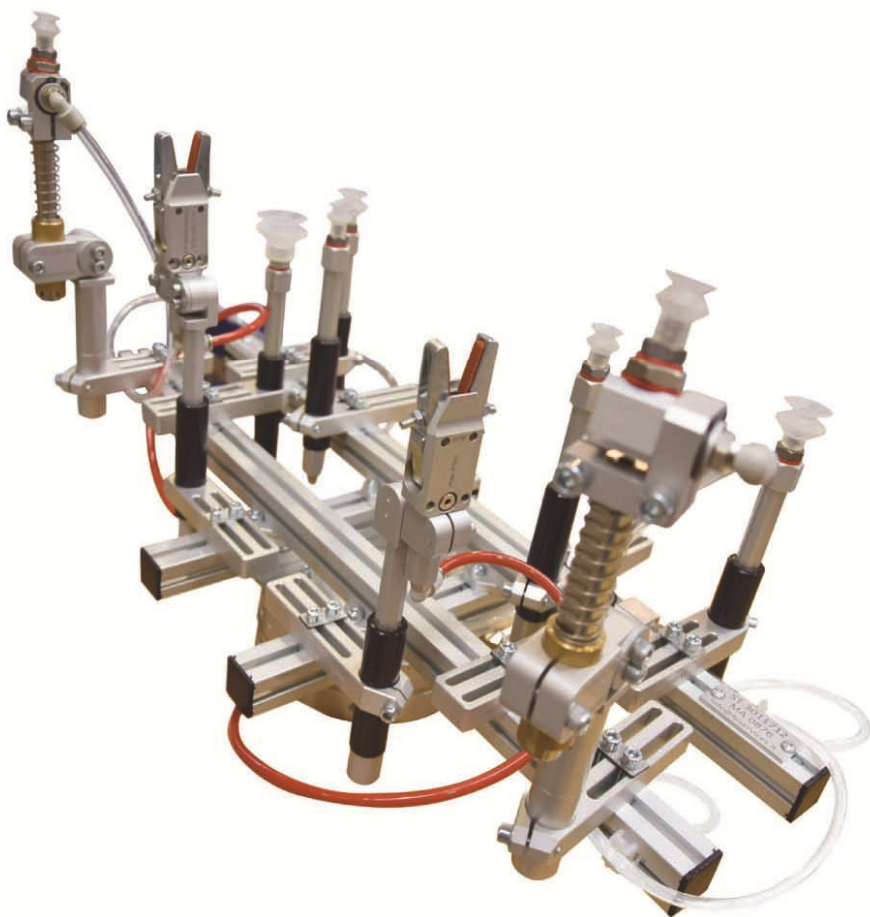
Panoramica Prodotti



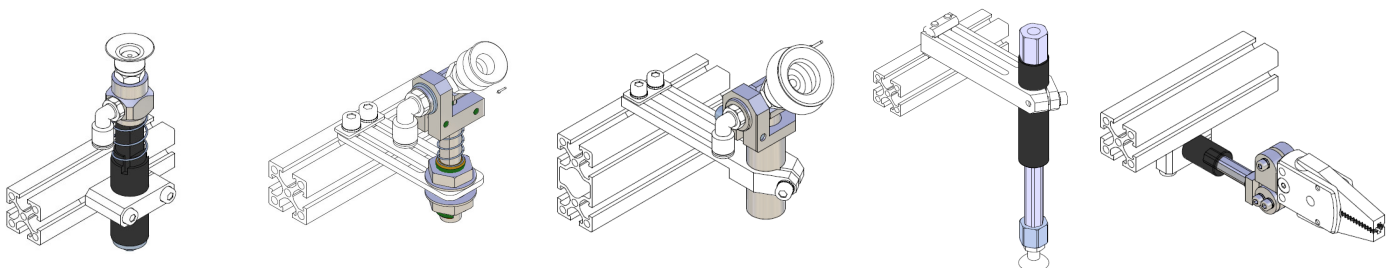
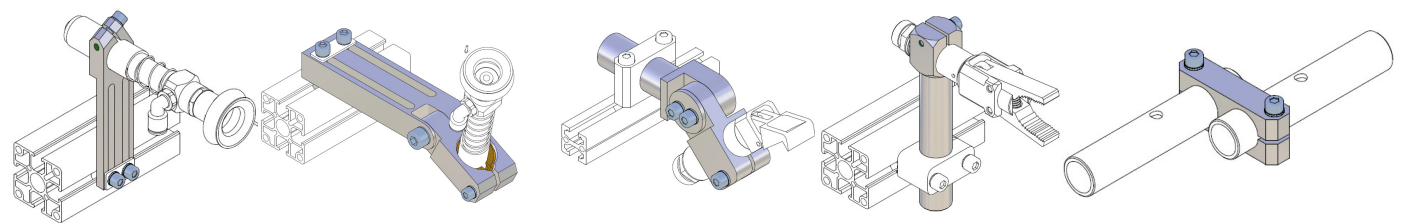
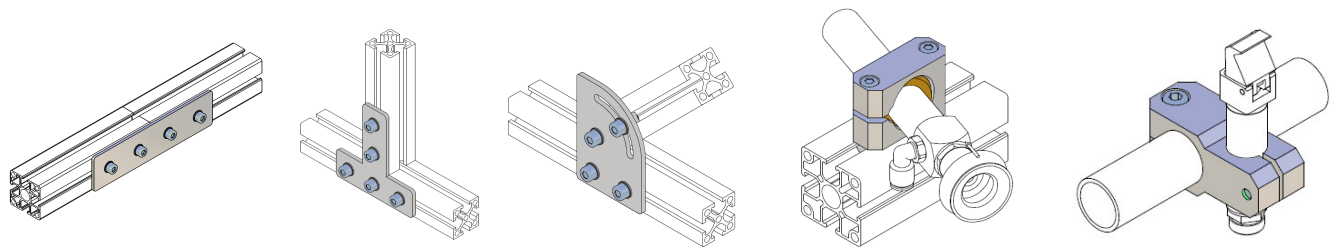
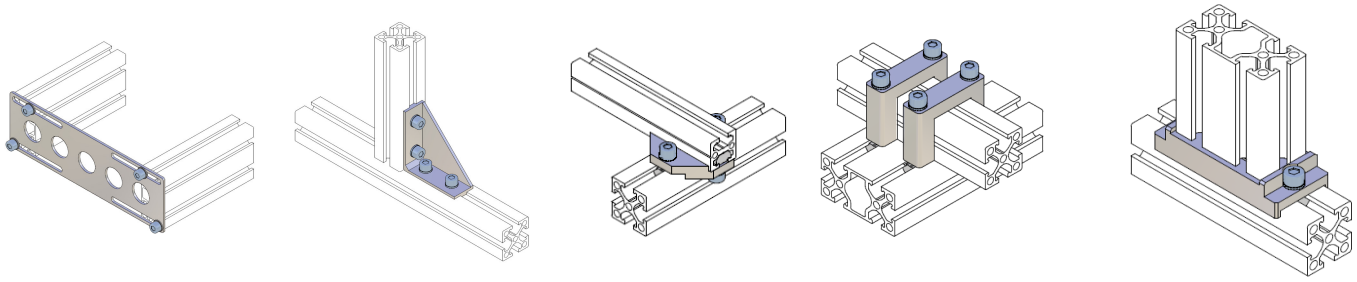
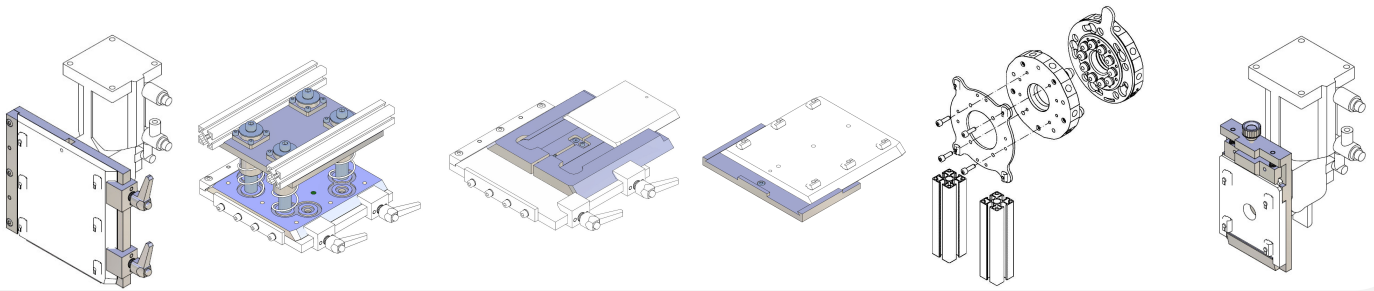
Gamme de produits

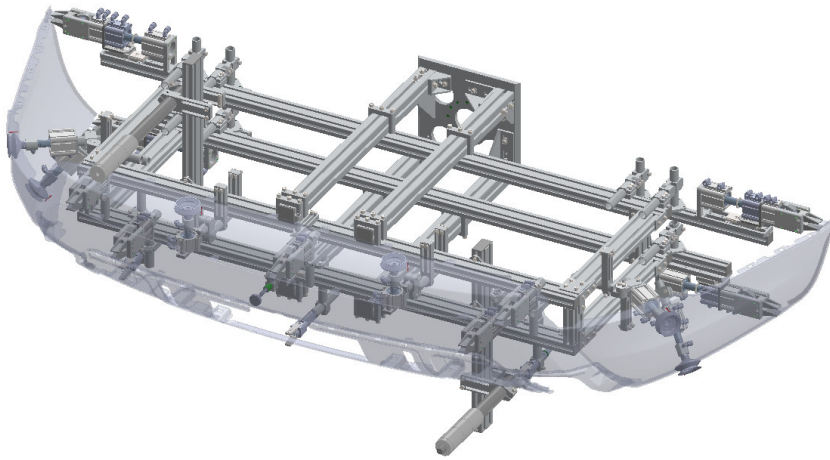


Gama de productos

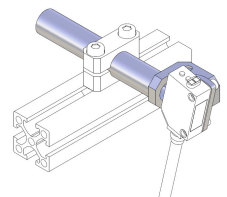
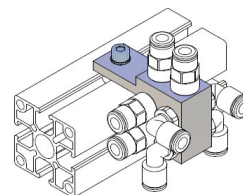
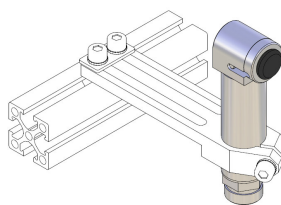
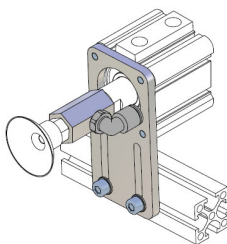
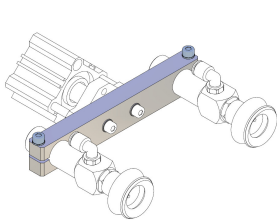
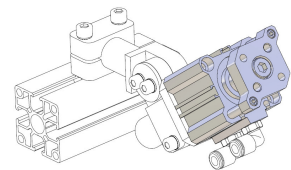
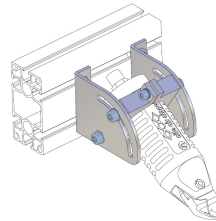
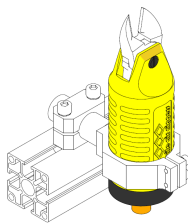
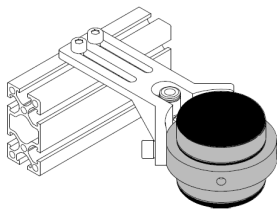
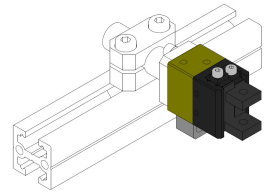
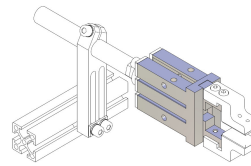
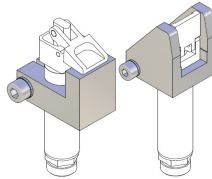
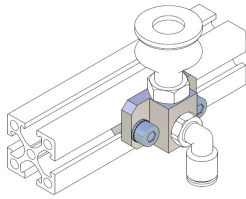
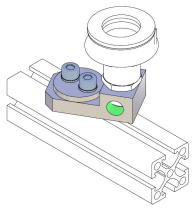


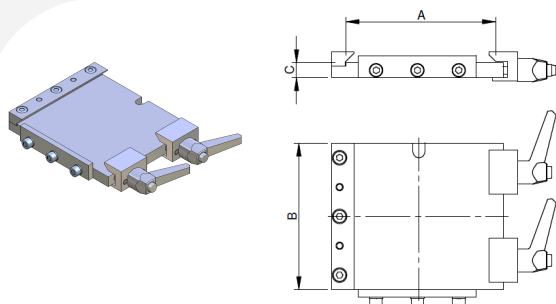
INNOVATION IN PROGRESS





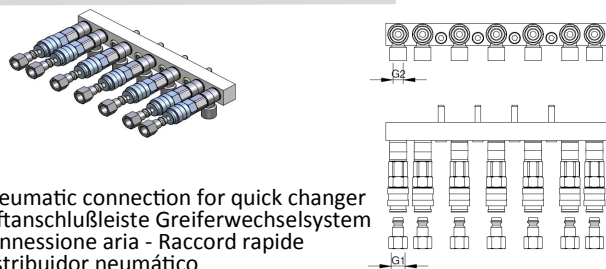
Application example
Anwendungsbeispiele
Esempio applicativo
Exemple d'application
Ejemplo de aplicación





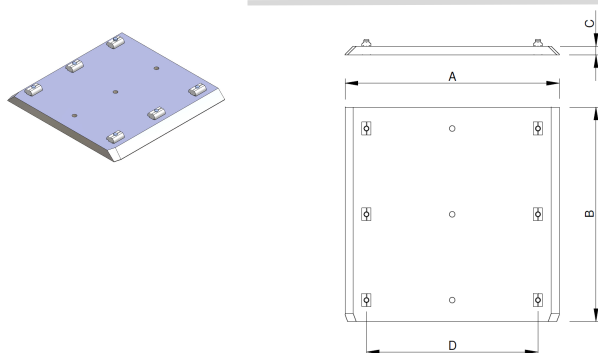
Quick changer (Robot side) - Schnellwerkzeugwechsler (Roboterseite)
Cambia utensile (Lato robot) - Changeur d'outils rapide (Côté robot)
Cambio rápido (Lado robot)

	A	B	C	
CA.SWM0	60	60	10	140 g
CA.SWM1	100	100	10	442 g
new CA.SWM1S	100	100	10	STEEL 1208 g
CA.SWM2	160	160	10	1132 g
new CA.SWM2S	160	160	10	STEEL 3096 g
CA.SWM3	250	250	10	2963 g
new CA.SWM3S	250	250	10	STEEL 8085 g



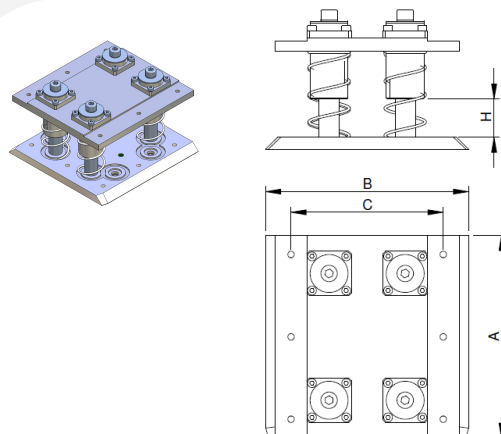
Pneumatic connection for quick changer
Luftanschlußleiste Greiferwechselsystem
Connessione aria - Raccord rapide
Distribuidor neumático

	G1	G2	L	M*	
CA.LAL.1.5	M5	M5	5	CA.SWM1	154 g
CA.LAL.1.7	M5	M5	7	CA.SWM1	225 g
CA.LAL.2.5	G 1/8	G 1/8	5	CA.SWM2	631 g
CA.LAL.2.7	G 1/8	G 1/8	7	CA.SWM2	742 g
CA.LAL.3.6	G 1/4	G 1/4	6	CA.SWM3	902 g
CA.LAL.3.8	G 1/4	G 1/4	8	CA.SWM3	1504 g



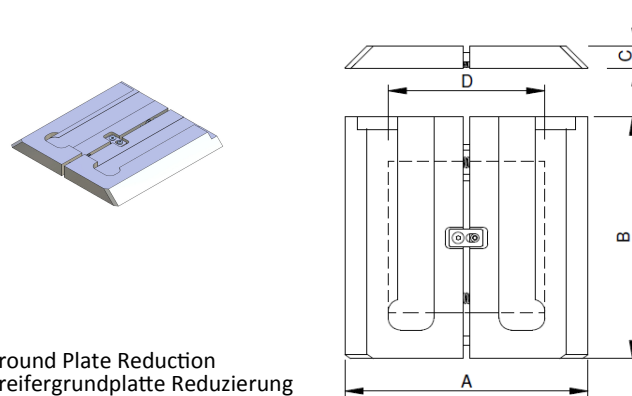
Quick changer (Gripper side) - Schnellwerkzeugwechsler (Greiferseite)
Cambia utensile (Lato mano) - Cambio rápido (Lado pinza)
Changeur d'outils rapide (Côté main de préhension)

	A	B	C	D	M*	
CA.GPM0	60	60	8	...	...	ALL. 69 g
CA.GPM0.X	60	60	8	35	L	ALL. 93 g
CA.GPM1	100	100	8	...	...	ALL. 201 g
CA.GPM1.X	100	100	8	70	L/X	ALL. 242 g
new CA.GPM1S	100	100	8	...	...	STEEL 583 g
CA.GPM2	160	160	10	...	...	ALL. 653 g
CA.GPM2.X	160	160	10	120	L/X/JU	ALL. 695 g
new CA.GPM2S	160	160	10	...	...	STEEL 1892 g
CA.GPM3	250	250	10	...	...	ALL. 1613 g
CA.GPM3.X	250	250	10	200	L/X/JU	ALL. 1641 g
new CA.GPM3S	250	250	10	...	...	STEEL 4673 g



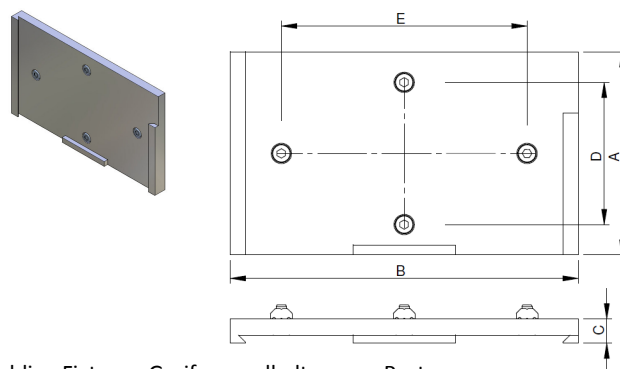
Ground Plate Spring Loaded - Greifergrundplatte gefedert
Piastra ammortizzata - Plaque de base sur ressort
Placa de Base (Resorte)

	A	B	C	H	F(N)	
CA.GPG.1	100	100	70	20	36	998 g
CA.GPG.2	160	160	120	30	50	2297 g
CA.GPG.3	250	250	200	30	50	4423 g



Ground Plate Reduction
Greifergrundplatte Reduzierung
Riduzione piastra - Plaque de base
Placa de base para elementos de pinza

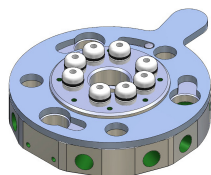
	A	B	C	D	M*	
CA.GPR1.0	100	100	15	60	CA.GPM0/CA.SWM1	256 g
CA.GPR2.1	160	160	15	100	CA.GPM1/CA.SWM2	715 g
CA.GPR3.2	250	250	20	160	CA.GPM2/CA.SWM3	2465 g



Holding Fixture - Greiferwandhalterung - Porta mano
Équipement tenant - Accesorio de Tenencia

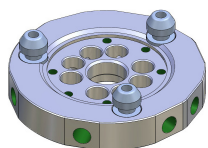
	A	B	C	D	E	M*	
CA.GHV.60	60	70	10	30	30	CA.GPM0	100 g
CA.GHV.100	60	110	10	30	70	CA.GPM1	168 g
CA.GHV.160	100	170	12	70	120	CA.GPM2	416 g
CA.GHV.250	120	270	12	90	220	CA.GPM3	757 g

Robot side



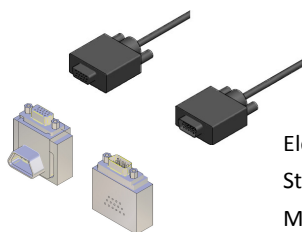
			Diameter	
CA.01.01.001	RS/90	90	318 g	
CA.01.01.003	RS/150	150	1123 g	
CA.01.01.013	RS/160	150	1200 g	

Gripper side



			Diameter	
CA.01.01.002	GS/90	90	227 g	
CA.01.01.004	GS/150	150	827 g	
CA.01.01.014	GS/160	150	900 g	

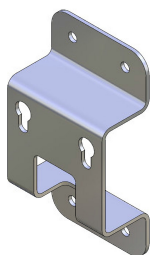
Quick changer - Schnellwerkzeugwechsler - Cambia utensile
 Changeur d'outils rapide - Cambio rápido redondo



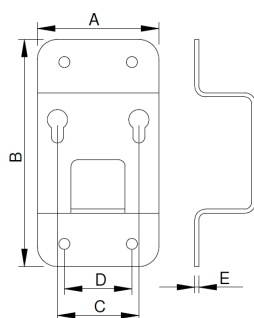
Cable - Kabel - Câble
 Cavo elettrico - Cable

Electrical connection module
 Steckerhülse - Conector eléctrico
 Modulo di connessione elettrica
 Module de connexion électrique

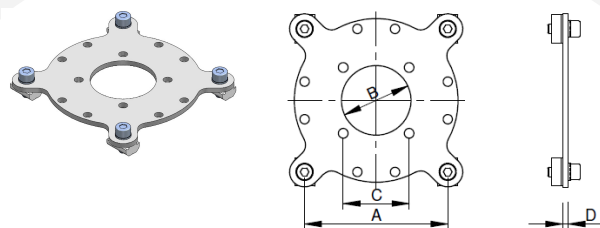
		M*
CA.01.01.008	Robot side	CA.01.01.001
		CA.01.01.003
		CA.01.01.013
		CA.CUXY.90
CA.01.01.009	Gripper side	CA.01.01.002
		CA.01.01.004
		CA.01.01.014
		CA.CUXY.150
		CA.CUXY.160
CA.01.01.011	Female cable	Robot side
CA.01.01.012	Male cable	Gripper side



Holding Fixture - Greiferwandhalterung
 Porta mano -Équipement tenant
 Accesorio de Soporte

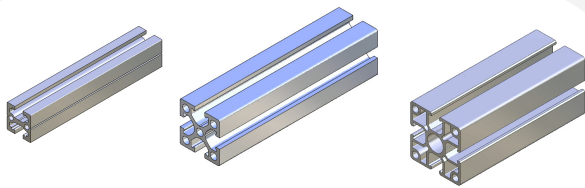


	A	B	C	D	E	M*	
CA.01.01.015	90	170	60,3	50	3	CA.01.01.002	430 g
CA.01.01.016	150	230	71,7	90	3	CA.01.01.004	900 g
						CA.01.01.014	



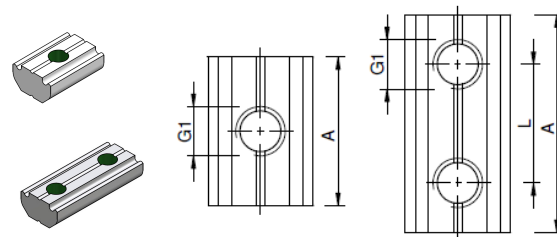
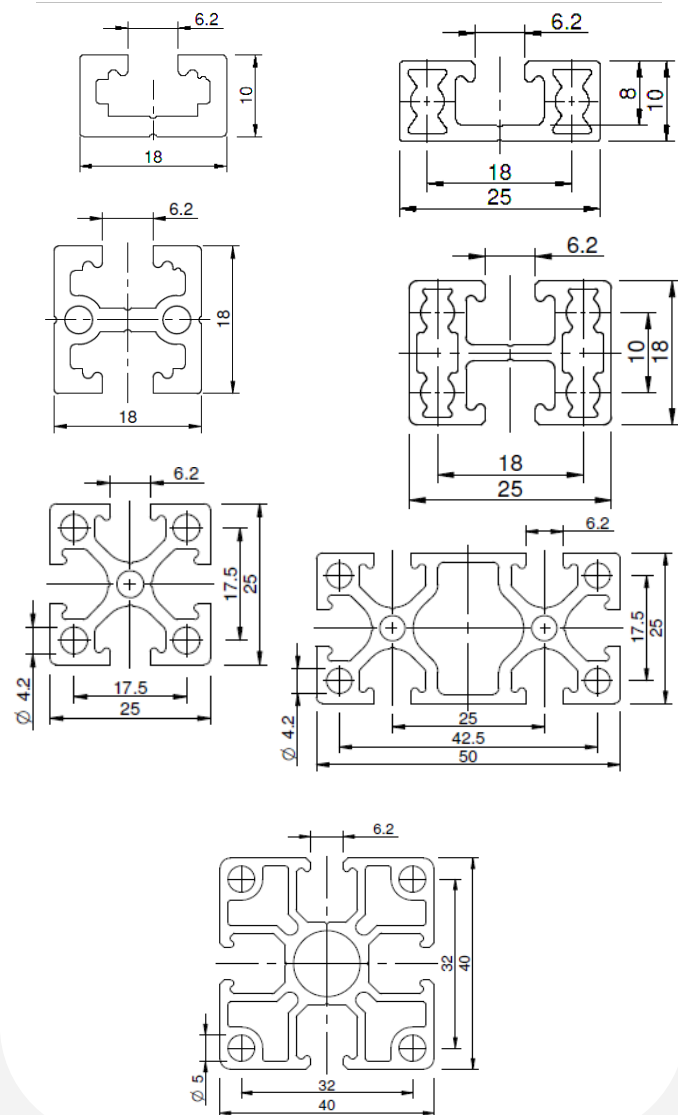
Interface - Schnittstelle - Interfaccia - Interface - Interfaz

	A	B	C	D	M*	
CA.01.01.006	76	37	35	3	CA.01.01.002	174 g
CA.01.01.007	110	70	52	4	CA.01.01.004	502 g
					CA.01.01.014	

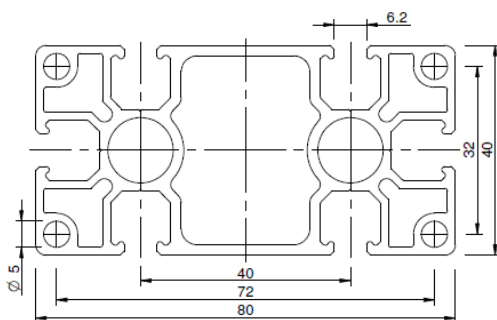


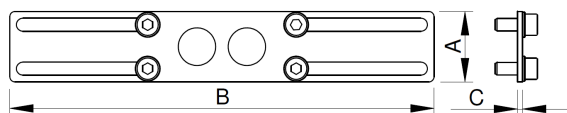
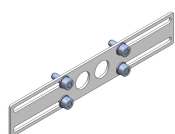
Profiles - Profile - Profili - Profiles - Perfiles

	L	M*	M1	
CA.L.1810.1000	1 m	CA.GWP	CA.ADK.L.1810	267 g
CA.L.1810.2000	2 m	CA.GWP	CA.ADK.L.1810	534 g
CA.L.1818.1000	1 m	CA.GWP	CA.ADK.L.1818	410 g
CA.L.1818.2000	2 m	CA.GWP	CA.ADK.L.1818	820 g
CA.X.2510.1000	1 m	CA.GWP	CA.ADK.X.2510	290 g
CA.X.2510.2000	2 m	CA.GWP	CA.ADK.X.2510	580 g
CA.X.2518.1000	1 m	CA.GWP	CA.ADK.X.2518	400 g
CA.X.2518.2000	2 m	CA.GWP	CA.ADK.X.2518	800 g
CA.X.2525.1000	1 m	CA.GWP	CA.ADK.X.2525	683 g
CA.X.2525.2000	2 m	CA.GWP	CA.ADK.X.2525	1366 g
CA.X.5025.1000	1 m	CA.GWP	CA.ADK.X.5025	1050 g
CA.X.5025.2000	2 m	CA.GWP	CA.ADK.X.5025	2100 g
CA.JU.4040.1000	1 m	CA.GWP	CA.ADK.JU.4040	1408 g
CA.JU.4040.2000	2 m	CA.GWP	CA.ADK.JU.4040	2816 g
CA.JU.8040.1000	1 m	CA.GWP	CA.ADK.JU.8040	2303 g
CA.JU.8040.2000	2 m	CA.GWP	CA.ADK.JU.8040	4606 g


 T-nut - Nutensteine für Profile - Tassello per profili - Ecrous à T
Tacos de Corredera

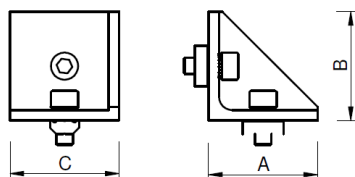
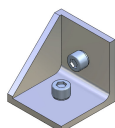
	G1	L	A	M*	
CA.GWP.3U	M3	...	15	L/X/JU	6 g
CA.GWP.4U	M4	...	15	L/X/JU	6 g
CA.GWP.4.8	M4	8	16	L/X/JU	6 g
CA.GWP.4.9	M4	9	19	L/X/JU	7 g
CA.GWP.4.16	M4	16	24	L/X/JU	9 g
CA.GWP.4.17	M4	17	25	L/X/JU	10 g
CA.GWP.4.25	M4	25	32	L/X/JU	13 g
CA.GWP.5U	M5	...	15	L/X/JU	6 g
CA.GWP.5.9	M5	9	18	L/X/JU	6 g
CA.GWP.5.10	M5	10	18	L/X/JU	6 g
CA.GWP.5.11	M5	11	19	L/X/JU	7 g
CA.GWP.5.12	M5	12	22	L/X/JU	8 g
CA.GWP.5.15	M5	15	25	L/X/JU	9 g
CA.GWP.5.17	M5	17	25	L/X/JU	9 g
CA.GWP.5.20	M5	20	30	L/X/JU	11 g
CA.GWP.5.22	M5	22	32	L/X/JU	12 g
CA.GWP.5.25	M5	25	33	L/X/JU	13 g
CA.GWP.5.25.3	M5	25 x 2	58	L/X/JU	22 g
CA.GWP.5.28	M5	28	38	L/X/JU	15 g
CA.GWP.5.30	M5	30	40	L/X/JU	16 g
CA.GWP.5.35	M5	35	45	L/X/JU	18 g
CA.GWP.5.38	M5	38	48	L/X/JU	19 g
CA.GWP.5.40	M5	40	48	L/X/JU	19 g
CA.GWP.5.40.3	M5	40 x 2	88	L/X/JU	35 g
CA.GWP.5.50	M5	50	58	L/X/JU	23 g
CA.GWP.5.52	M5	52	64	L/X/JU	26 g
CA.GWP.5.60	M5	60	68	L/X/JU	27 g
CA.GWP.5.75	M5	75	83	L/X/JU	34 g
CA.GWP.6U	M6	...	15	L/X/JU	6 g
CA.GWP.6.12	M6	12	24	L/X/JU	8 g
CA.GWP.6.16	M6	16	26	L/X/JU	10 g
CA.GWP.6.20	M6	20	30	L/X/JU	11 g
CA.GWP.6.22	M6	22	32	L/X/JU	12 g
CA.GWP.6.25	M6	25	35	L/X/JU	13 g
CA.GWP.6.25.3	M6	25 x 2	58	L/X/JU	22 g
CA.GWP.6.28	M6	28	40	L/X/JU	15 g
CA.GWP.6.35	M6	35	45	L/X/JU	17 g
CA.GWP.6.40	M6	40	50	L/X/JU	19 g
CA.GWP.6.50	M6	50	60	L/X/JU	23 g
CA.GWP.6.52	M6	52	64	L/X/JU	25 g
CA.GWP.6.90	M6	90	100	L/X/JU	40 g





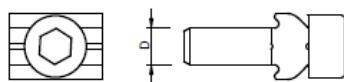
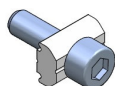
End plate for profile - Endplatte für Profile - Piastra testa profilo
Connecteur plat droit - Placa de conector extremo de placa

	A	B	C	M*	
CA.EPL.25.170	25	170	2	CA.X.2525...	48 g
CA.EPL.25.220	25	220	2	CA.X.2525...	60 g
CA.EPL.25.270	25	270	2	CA.X.2525...	69 g
CA.EPL.25.320	25	320	2	CA.X.2525...	85 g
CA.EPL.50.25.170	50	170	2	CA.X.5025...	100 g
CA.EPL.50.25.220	50	220	2	CA.X.5025...	130 g
CA.EPL.50.25.270	50	270	2	CA.X.5025...	162 g
CA.EPL.50.25.320	50	320	2	CA.X.5025...	192 g



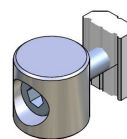
Corner connector - Winkelverbinder - Connessione angolare
Bride à angle droits - Angular para Perfil

	A	B	C	M*	
CA.WIV.X.25.0	25	25	16	X	28 g
CA.WIV.X.50.25	51	51	16	X	72 g
CA.WIV.X.25.M	18	18	18	X	33 g
CA.WIV.X.25.E	38	38	18	X	47 g
CA.WIV.JU.40	40	40	40	JU	56 g
CA.WIV.JU.40.E	38	38	38	JU	88 g
CA.WIV.JU.80.E	78	78	37	JU	178 g



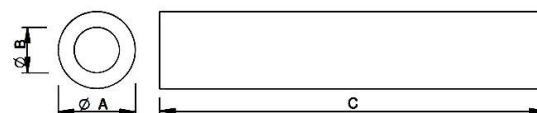
Butt connector - Stoßverbinder - Connessione
Butées - Railes de fijación para Perfil

	D	M*	
CA.SV.X.5	M5	X	15 g
CA.SV.JU.6	M6	JU	15 g



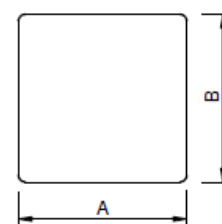
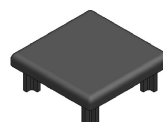
Butt connector - Stoßverbinder
Nottolino - Fixation de tête
Railes de fijación para Perfil

	M*
CA.UVV.X.25.S	X
CA.UVV.JU.40.S	JU



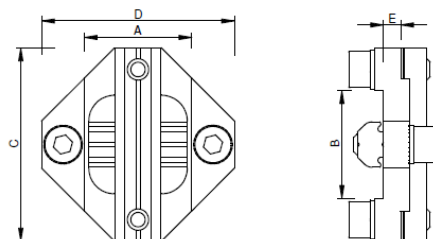
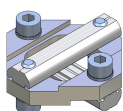
Round profile tube - Rund-Rohr Profile - Tubo Alluminio
Tubes Prolongateurs - Tubo Aluminio

	A	B	C	
CA.GAR.10.1000	10	5	1000	179 g
CA.GAR.14.1000	14	7	1000	253 g
CA.GAR.20.1000	20	12	1000	555 g
CA.GAR.30.1000	30	26	1000	477 g



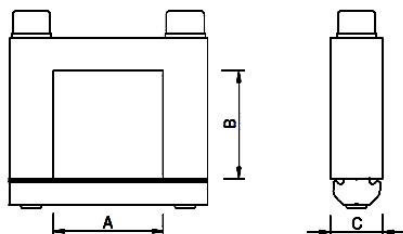
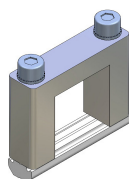
Profile end cap - Verschlusskappen - Tappi per profili
Bouchons pour profiles - Tapa final para perfiles

	A	B	M*	
CA.ADK.L.1810	18	10	CA.L.1810...	2 g x 10
CA.ADK.L.1818	18	18	CA.L.1818...	2 g x 10
CA.ADK.X.2510	25	10	CA.X.2510...	2 g x 10
CA.ADK.X.2518	25	18	CA.X.2518...	2 g x 10
CA.ADK.X.2525	25	25	CA.X.2525...	3 g x 10
CA.ADK.X.5025	50	25	CA.X.5025...	4 g x 10
CA.ADK.JU.4040	40	40	CA.JU.4040...	7 g x 10
CA.ADK.JU.8040	80	40	CA.JU.8040...	13 g x 10



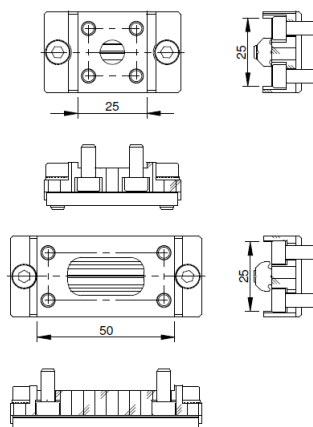
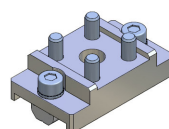
Cross Joint Connector - Profilverbinder - Connessione a Croce Brides
pour Fixation en Croix - Placa en Cruz para Perfiles

	A	B	C	D	E	M*	
CA.KPLL.1818	18	18	38	38	2	L	40 g
CA.KPLX.2518	25	18	45	45	2	L/X	40 g
CA.KPLX.2525	25	25	45	45	4	X	74 g
CA.KPLX.5025	50	25	45	70	4	X	79 g
CA.KPLX.5050	50	50	70	70	4	X	108 g
CA.KPLJU.4040	40	40	65	65	4	JU	103 g
CA.KPLJU.4025	40	25	45	60	4	JU/X	98 g
CA.KPLJU.8040	80	40	100	60	4	JU	190 g
CA.KPLJU.8080	80	80	100	100	4	JU	300 g



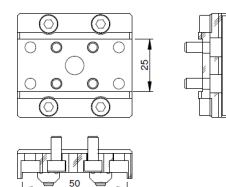
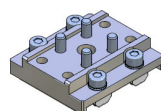
Square Joint Connector - Kreuzverbindung Vierkant
Staffa Quadra per Profilo - Brides Carrés pour Fixation en Croix
Elementos de Unión en Cruz Para Perfiles (alto)

	A	B	C	M*	
CA.KBVL.1810	18	10	10	L	26 g
CA.KBVL.1818	18	18	10	L	30 g
CA.KBVX.2510	25	10	12	X	42 g
CA.KBVX.2518	25	18	12	X	48 g
CA.KBVX.2525	25	25	12	X	58 g
CA.KBVX.2550	25	50	12	X	79 g
CA.KBVX.5025	50	25	12	X	74 g
CA.KBVJU.4040	40	40	15	JU	107 g
CA.KBVJU.4080	40	80	15	JU	150 g
CA.KBVJU.8040	80	40	15	JU	140 g



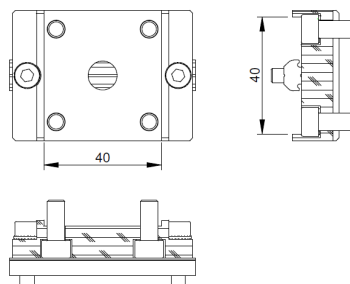
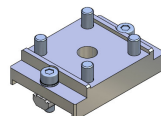
Profile End Connector 25 - Stoßverbinder 25
Connessione Terminale per Profilo 25
Fixation Verticales pour Profilés 25
Conexión Terminal para Perfiles 25

	M*	
CA.SVB.X.25.25	X	69 g
CA.SVB.X.25.50	X	87 g



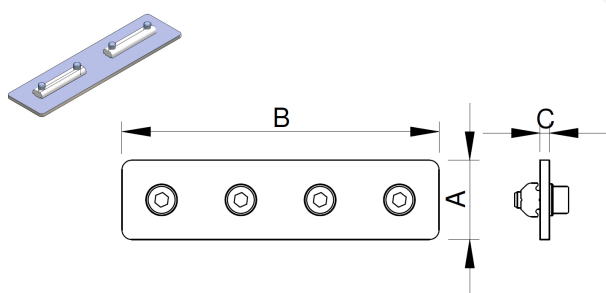
Profile End Connector 50 - Stoßverbinder 50
Connessione Terminale per Profilo 50
Fixation Verticales pour Profilés 50
Conexión Terminal para Perfiles 50

	M*	
CA.SVB.X.50.25	X	118 g
CA.SVB.X.50.50	X	149 g



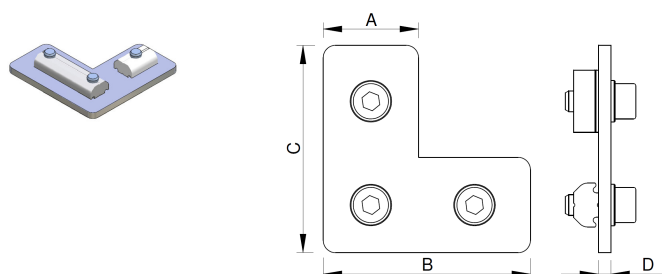
Profile End Connector 40 - Stoßverbinder 40
Connessione Terminale per Profilo 40
Fixation Verticales pour Profilés 40
Conexión Terminal para Perfiles 40

	M*	
CA.SVB.JU.40.40	JU	128 g



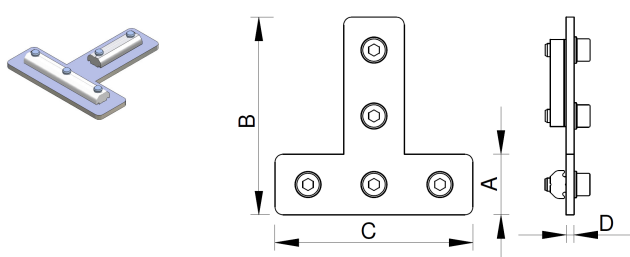
Straight Connector - Profilverbinder Gerade-Form
Connessione Lineare - Plaque de Fixage Droite - Conexión Linear

	A	B	C	M*	
CA.VBG.X.25.50	25	50	3	X	48 g
CA.VBG.X.50.50	50	50	3	X	98 g
CA.VBG.X.25.100	25	100	3	X	97 g
CA.VBG.JU.40.80	40	80	3	JU	99 g
CA.VBG.JU.40.160	40	160	3	JU	215 g



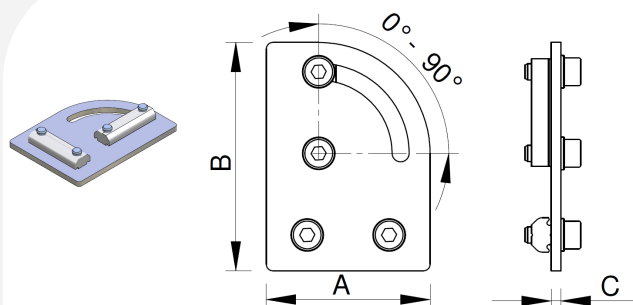
Connector L-Style - Profilverbinder Winkel - Connessione ad L
Plaque de Fixage en L - Conexión tipo L

	A	B	C	D	M*	
CA.VBL.50.50	25	50	50	3	X	72 g
CA.VBL.50.75	25	50	75	3	X	96 g
CA.VBL.80.80.JU	40	80	80	3	JU	151 g
CA.VBL.80.120.JU	40	80	120	3	JU	206 g



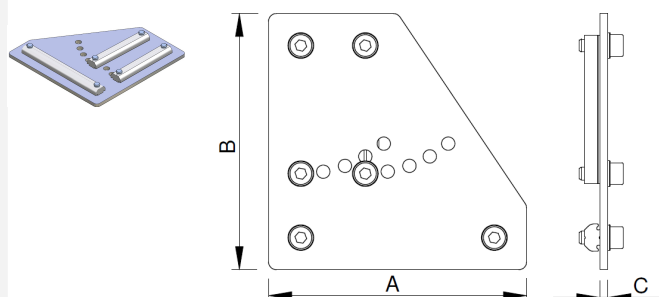
Connector T-Style - Profilverbinder T-Form - Connessione a T
Plaque de Fixage en T - Conexión tipo T

	A	B	C	D	M*	
CA.VBT.X.50.75	25	75	50	3	X	124 g
CA.VBT.X.75.100	25	75	100	3	X	150 g
CA.VBT.JU.120	40	120	80	3	JU	264 g



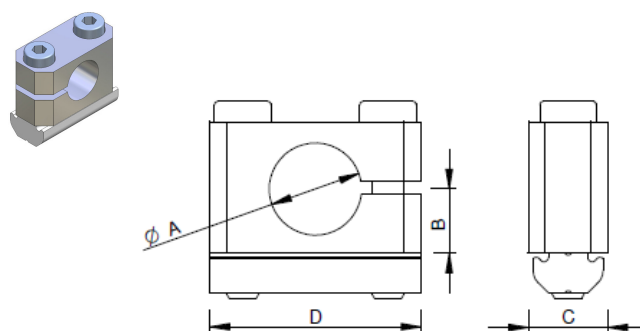
Adjustable Connector 0-90° - Profilverbinder Verstellbar 0-90°
Connessione Regolabile 0-90° - Plaque de Fixage à Angle Réglable
Elemento de Unión Pivotante

	A	B	C	M*	
CA.VBW.X.0.90	50	70	3	X	113 g
CA.VBW.JU.0.90	80	120	3	JU	256 g



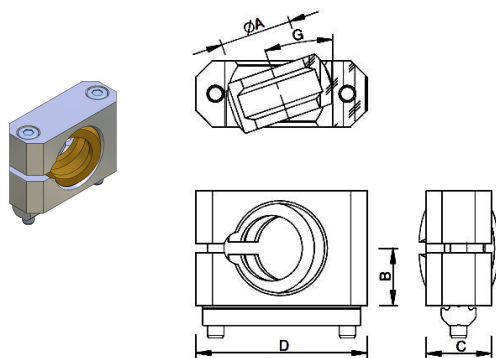
Corner Joint Plate - Eckverbinder - Connessione Angolare
Bride à Angle - Elemento de Unión en Ángulo

	A	B	C	M*	
CA.EVB.75.X	75	100	3	X	193 g
CA.EVB.100.X	100	100	3	X	292 g
CA.EVB.100.JU	80	100	3	JU	212 g



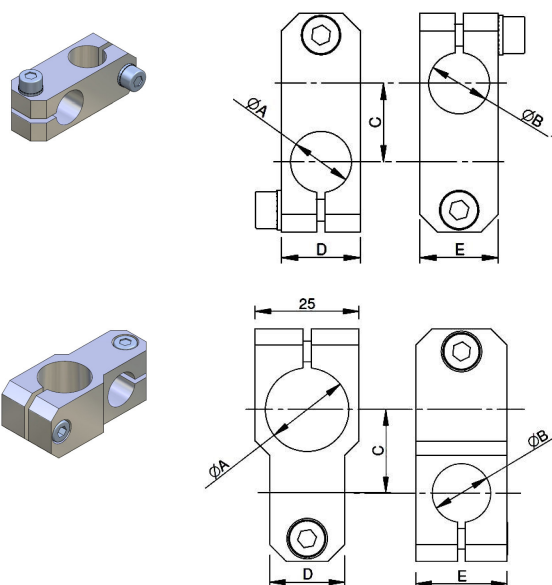
Cross Connector Round - Kreuzklemmstück Rund - Connessione Tubo
Bride Ronde pour Fixation en Croix - Pieza de Apriete en Cruz

	A	B	C	D	M*	
CA.KVB.L10	10	8	12	15	L	22 g
CA.KVB.X14	14	10	12	32	X	36 g
CA.KVB.X20	20	13	12	40	X	47 g
CA.KVB.JU20	20	13	20	40	JU	48 g
CA.KVB.JU30	30	18	20	52	JU	97 g



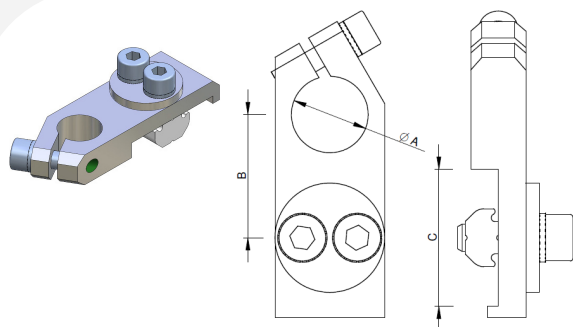
Cross Connector Round With Ball Joint
Kreuzklemmstück Rund mit Kugelgelenk
Connessione Tubo con Sfera
Bride Ronde pour Fixation en Croix avec Boule
Pieza de Apriete en Cruz con Esfera

	A	B	C	D	G°	M*	
CA.KVB.KG.X10	10	10	12	32	0°-13°	X	42 g
CA.KVB.KG.X14	14	12,5	15	40	0°-17°	X	62 g
CA.KVB.KG.JU20	20	17,5	20	52	0°-19°	JU	124 g

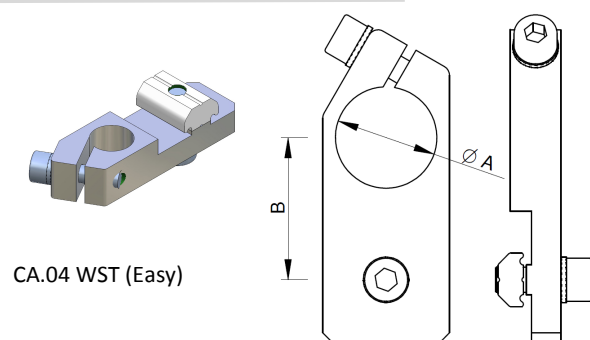


Cross Connector Tube - Kreuzklemmstück Rohr
Connessione a Croce Tubo - Bloc de Connexion en Croix
Pieza de Apriete en Cruz

	A	B	C	D	E	
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	20	26	25	25	71 g
CA.KKS.20.10	20	10	20	14	20	41 g
CA.KKS.20.14	20	14	20	18	22	48 g

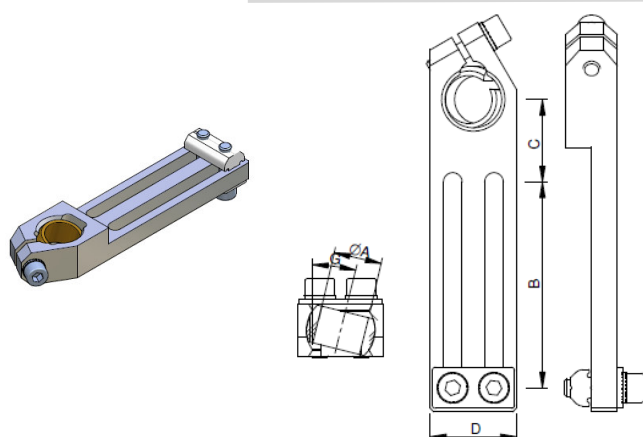

 Adjustable Clamp - Klemmstück Drehbar - Staffa Angolare
 Bride de Fixation - Pieza de Apriete Angular

	A	B	C	M*	
CA.WST.10.L	10	17	18	L	20 g
CA.WST.10.X	10	21	25	X	20 g
CA.WST.14.L	14	19	18	L	31 g
CA.WST.14.X	14	23	25	X	31 g
CA.WST.20.X	20	27	25	X	42 g
CA.WST.20.JU	20	34	40	JU	50 g
CA.WST.30.X	30	30	40	X	95 g
CA.WST.30.JU	30	38	40	JU	105 g

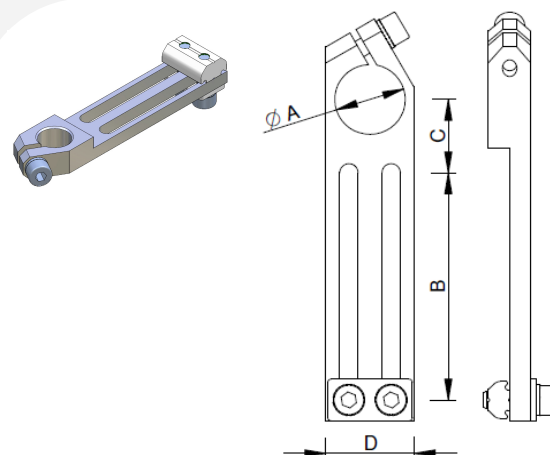


CA.04 WST (Easy)

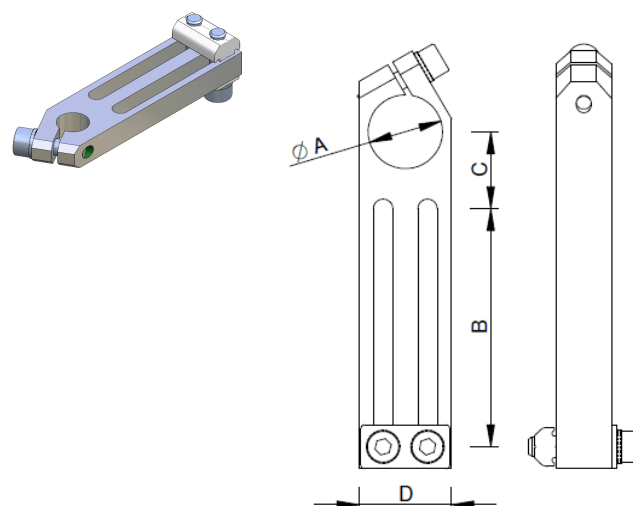
	A	B	M*	
CA.WST.10	10	21	X	23 g
CA.WST.14	14	24	X	25 g
CA.WST.20	20	28	X	36 g


 Long Angle Clamp with Ball joint
 Klemmstück Verstellbar mit Kugelgelenk - Staffa con Sfera
 Bride de Fixation Universel avec Boule
 Pieza de Apriete en Escuadra con Esfera

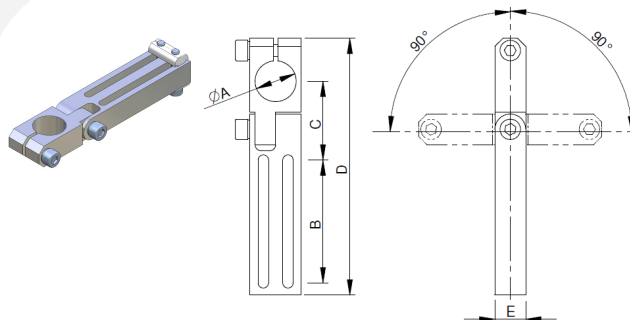
	A	B	C	D	G°	M*	
CA.WSL.1050.G.X	10	50	20	20	0°-13°	X	51 g
CA.WSL.1460.G.X	14	60	24	25	0°-17°	X	78 g
CA.WSL.2060.G.X	20	60	29	35	0°-19°	X/JU	168 g


 Universal Long Angle Clamp - Klemmstück Verstellbar
 Staffa Angolare - Bride de Fixation Universel
 Pieza de Apriete en Escuadra (Universal)

	A	B	C	D	M*	
CA.WSL.1040.U.L	10	40	17,5	16	L	23 g
CA.WSL.1040.U.X	10	40	17,5	16	X	23 g
CA.WSL.1440.U.L	14	40	19	20	L	32 g
CA.WSL.1440.U.X	14	40	19	20	X	33 g
CA.WSL.1450.U.X	14	50	19	20	X	39 g
CA.WSL.2060.U.X	20	65	21	25	X/JU	58 g
CA.WSL.2070.U.X						
CA.WSL.2070.U.JU	20	70	25,5	25	JU	78 g
CA.WSL.3070.U.JU	30	70	30	35	JU	136 g

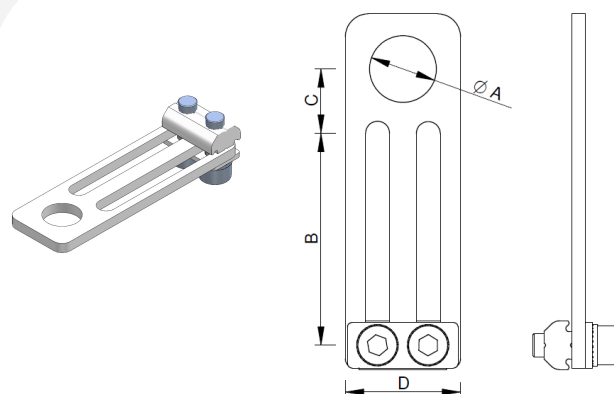

 Long Angle Clamp Heavy Duty - Klemmstück Verstellbar und Verstärkt
 Staffa Rinforzata - Bride Robuste - Conexión Perfil

	A	B	C	D	M*	
CA.WSL.1040.VU.X	10	40	15	20	L	41 g
CA.WSL.1060.VU.X	10	60	16	20	L/X	48 g
CA.WSL.1080.VU.X	10	80	16	20	L/X	53 g
CA.WSL.1440.VU.X	14	40	19	20	L/X	43 g
CA.WSL.1450.VU.X	14	50	22	20	X	59 g
CA.WSL.2060.VU.X	20	65	21	25	X/JU	94 g
CA.WSL.2070.VU.X	20	70	25,5	25	JU	106 g
CA.WSL.2080.VU.X	20	80	25,5	25	JU	111 g
CA.WSL.2570.VU.X	25	70	21	30	JU	120 g
CA.WSL.3060.VU.J	30	60	30	35	JU	188 g
CA.WSL.3070.VU.J	30	70	30	35	JU	200 g



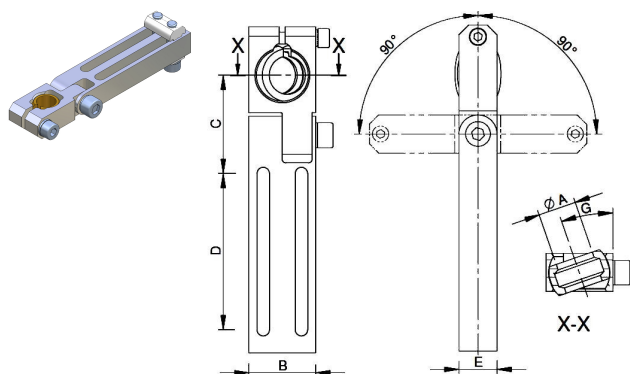
Long Angle Clamp (Swivel Head) - Winkelklemmstück Gelenkig
Staffa Snodata - Bride Perforeé Angulaire
Brida Angular Perforada

	A	B	C	D	E	M*	
CA.WSL.GA.10.X	10	40	26,6	85,3	10	L/X	57 g
CA.WSL.GA.14.X	14	40	27,8	88,3	10	X	57 g
CA.WSL.GA.20.X	20	60	38,5	125,5	15	X/JU	122 g
CA.WSL.GA.30.X	30	82	53	168,5	20	JU	266 g



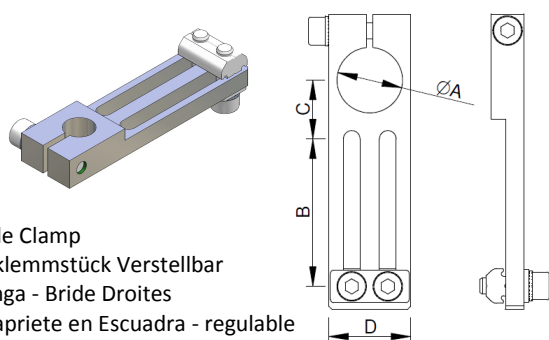
Mounting Bracket - Klemmstück Verstellbar - Staffa Passaparete
Bride de Fixage - Conexión Perfil - Pistón Pequeño

	A	B	C	D	M*	
CA.04.20.10.X	10	40	11	20	X	35 g
CA.04.20.14.X	14	46	14	25	X	45 g
CA.04.20.20.X	20	51,5	19	30	X/JU	65 g



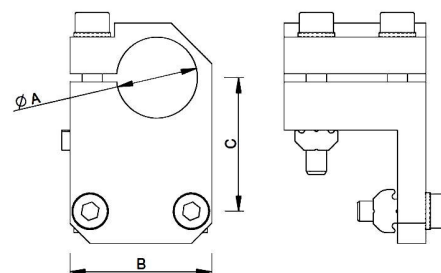
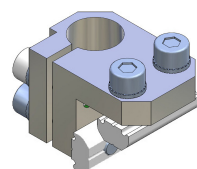
Long Angle Clamp Swivel Head and Ball Joint
Winkelklemmstück Gelenkig mit Kugelgelenk
Staffa Snodata con Sfera - Bride Perforeé Angulaire Sphériques
Pieza de apriete en escuadra con Articulación y Esfera

	A	B	C	D	E	G°	M*	
CA.WSL.KG.X.10	10	20	32,5	50	12	0°-13°	X	59 g
CA.WSL.KG.X.14	14	25	39,5	60	15	0°-17°	X	109 g
CA.WSL.KG.JU.20	20	35	51,5	82	20	0°-19°	X/JU	266 g



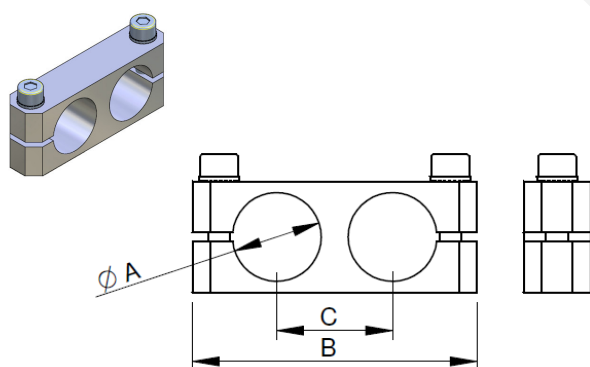
Long Angle Clamp
Gewindeklemmstück Verstellbar
Staffa Lunga - Bride Droites
Pieza de apriete en Escuadra - regulable

	A	B	C	D	M*	
CA.04.02.10.X	10	40	15,5	20	X	41 g
CA.04.02.14.X	14	45	16,5	25	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



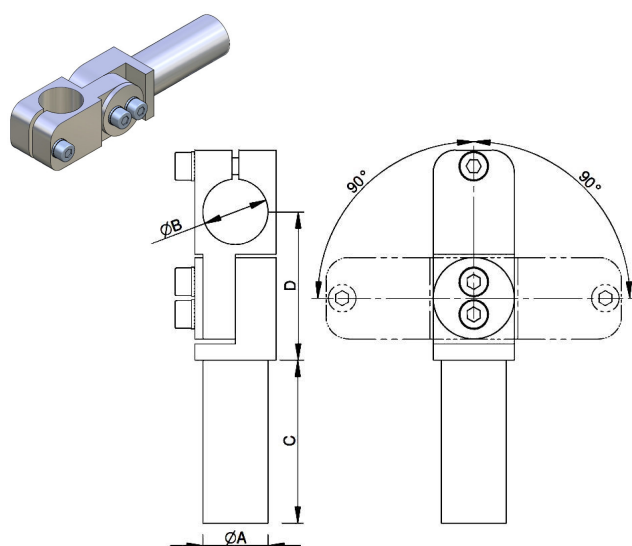
Clamp angle - Winkelklemmstück - Staffa Angolare
Bride de Fixage - Pieza de apriete Angular

	A	B	C	M*	
CA.KSW.10.L	10	20	16	L	27 g
CA.KSW.10.X	10	25	19,5	X	57 g
CA.KSW.14.X	14	25	21,5	X	60 g
CA.KSW.20.X	20	32	24,5	X	80 g
CA.KSW.20.JU	20	35	33	JU	105 g
CA.KSW.30.JU	30	45	39	JU	178 g



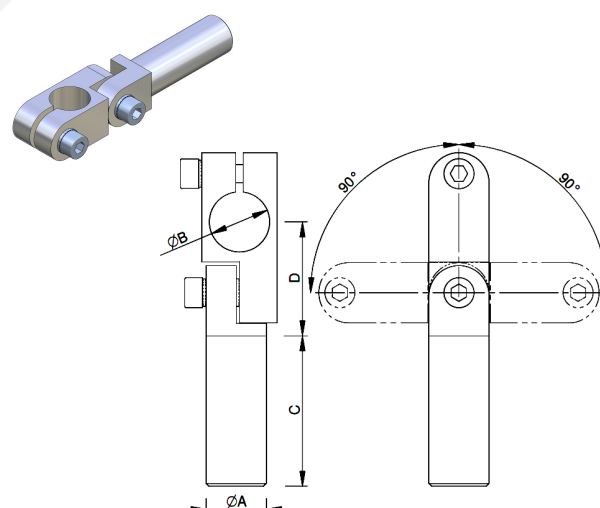
Parallel Clamp - Parallelklemmstück - Staffa Parallela
Bride Parallèle - Soporte Paralelo

	A	B	C	
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



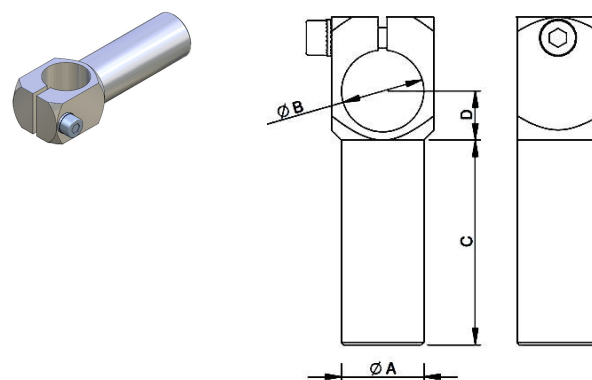
Elbow Gripper Arm - Gelenkgreifarm Verstellbar Rund
Giunto Supporto Orientabile - Coude Robuste avec Cravate
Brazo en Escuadra (Pivotante)

	A	B	C	D	
CA.GVR.1010.30	10	10	30	30	27 g
CA.GVR.1010.60	10	10	60	30	31 g
CA.GVR.1010.90	10	10	90	30	37 g
CA.GVR.1414.40	14	14	40	36	56 g
CA.GVR.1414.80	14	14	80	36	66 g
CA.GVR.1414.120	14	14	120	36	83 g
CA.GVR.2020.50	20	20	50	45,5	111 g
CA.GVR.2020.100	20	20	100	45,5	127 g
CA.GVR.2020.150	20	20	150	45,5	169 g
CA.GVR.3030.80	30	30	80	60	302 g
CA.GVR.3030.140	30	30	140	60	394 g
CA.GVR.3030.200	30	30	200	60	509 g



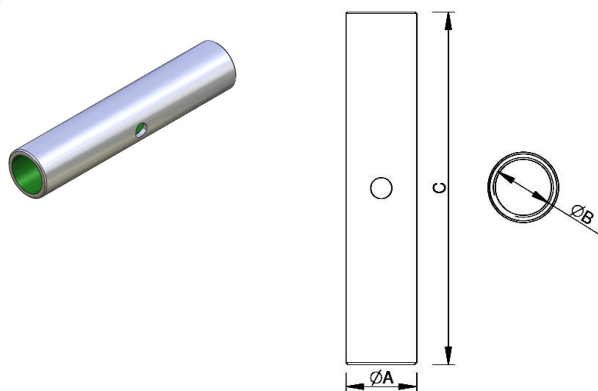
Elbow Gripper Arm - Gelenkgreifarm - Giunto Supporto Orientabile
Bras de Préhension Ajustable - Brazo en Escuadra (Pivotante)

	A	B	C	D	
CA.GLA.1010.30	10	10	30	22	17 g
CA.GLA.1010.60	10	10	60	22	21 g
CA.GLA.1010.90	10	10	90	22	28 g
CA.GLA.1414.40	14	14	40	30	43 g
CA.GLA.1414.80	14	14	80	30	51 g
CA.GLA.1414.120	14	14	120	30	70 g
CA.GLA.2020.50	20	20	50	38	99 g
CA.GLA.2020.100	20	20	100	38	106 g
CA.GLA.2020.150	20	20	150	38	165 g
CA.GLA.2030	20	30	100	47	315 g
CA.GLA.3030	30	30	100	52,5	315 g



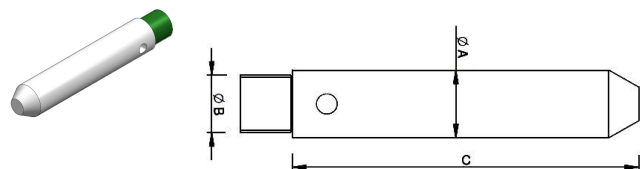
Angle Gripper Arm - Greifarm Winkel Rund
Giunto Fisso ad Angolo - Bras avec élément de Serrage
Brazo en Escuadra (Rígido)

	A	B	C	D	
CA.WKA.10.10.30	10	10	30	8	13 g
CA.WKA.10.10.60	10	10	60	8	17 g
CA.WKA.10.10.90	10	10	90	8	22 g
CA.WKA.14.14.40	14	14	40	10	22 g
CA.WKA.14.14.80	14	14	80	10	35 g
CA.WKA.14.14.120	14	14	120	10	48 g
CA.WKA.20.20.50	20	20	50	12	47 g
CA.WKA.20.20.100	20	20	100	12	78 g
CA.WKA.20.20.150	20	20	150	12	96 g
CA.WKA.30.30.80	30	30	80	17	136 g
CA.WKA.30.30.140	30	30	140	17	178 g
CA.WKA.30.30.200	30	30	200	17	278 g



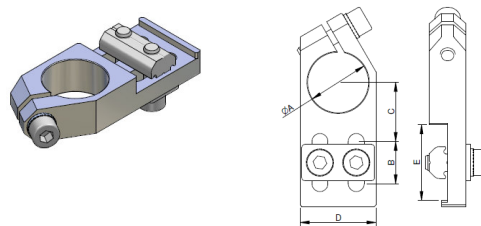
Extension Tube - Verlängerungsrohr - Prolunga
Rallonge - Tubo de Prolongación

	A	B	C	
CA.VLR.10.30	10	M8X1	30	3 g
CA.VLR.10.60	10	M8X1	60	6 g
CA.VLR.10.90	10	M8X1	90	10 g
CA.VLR.14.40	14	M12X1	40	6 g
CA.VLR.14.80	14	M12X1	80	13 g
CA.VLR.14.120	14	M12X1	120	19 g
CA.VLR.20.50	20	M17X1	50	15 g
CA.VLR.20.100	20	M17X1	100	31 g
CA.VLR.20.150	20	M17X1	150	46 g
CA.VLR.30.80	30	M27X1	80	38 g
CA.VLR.30.140	30	M27X1	140	67 g
CA.VLR.30.200	30	M27X1	200	97 g



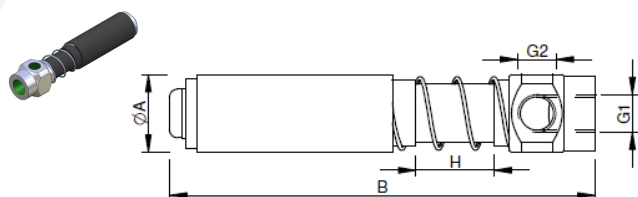
Centering pin - Zentrierbolzen - Centratori
Douille de Centrage - Perno de Centrado

	A	B	C	M*
CA.ZTB.1040	10	M8X1	40	CA.VLR.10 5 g
CA.ZTB.1060	10	M8X1	60	CA.VLR.10 7 g
CA.ZTB.1460	14	M12X1	60	CA.VLR.14 16 g
CA.ZTB.1480	14	M12X1	80	CA.VLR.14 18 g
CA.ZTB.20100	20	M17X1	100	CA.VLR.20 47 g
CA.ZTB.30100	30	M27X1	100	CA.VLR.30 104 g



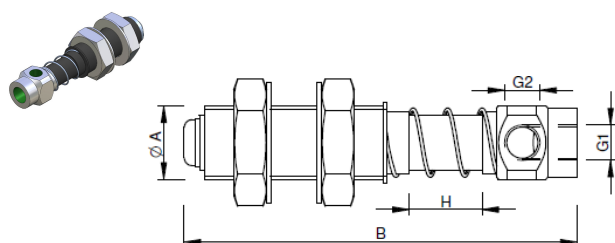
Adjustable Clamp - Winkelklemmstück - Staffa Angolare
Bride de Fixation - Pieza de Apriete Angular

	A	B	C	D	E	M*	
CA.WST.1010.L	10	10	12	16	18	L	14 g
CA.WST.1014.X	10	14	13.55	16	25	X	15 g
CA.WST.1414.X	14	14	15.55	20	25	X	28 g
CA.WST.2014.X	20	14	19.55	25	25	X	38 g
CA.WST.2022.JU	20	22	23	25	40	JU	43 g



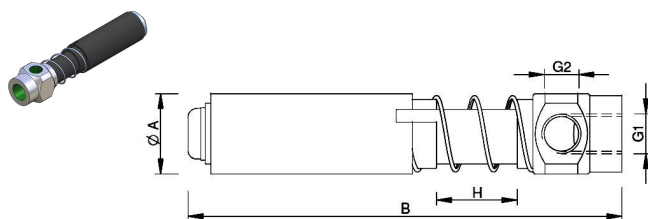
Spring Loaded Rotative Vacuum Cup Arm
Greifarm Gefedert Drehbar - Supporto Ammortizzato
Suspension de Rotation, avec Corps Lisse
Brazo Portaventosa (Elastico)

	A	B	G1	G2	H	F(N)	
CA.GGD.10050510	10	59	M5	M5	10	8	11 g
CA.GGD.10050530	10	85	M5	M5	30	11	15 g
CA.GGD.14181815	14	86	G 1/8	G 1/8	15	9	33 g
CA.GGD.14181840	14	111	G 1/8	G 1/8	40	14.6	37 g
CA.GGD.20141820	20	109	G 1/4	G 1/8	20	11.7	73 g
CA.GGD.20141850	20	147	G 1/4	G 1/8	50	16.8	91 g



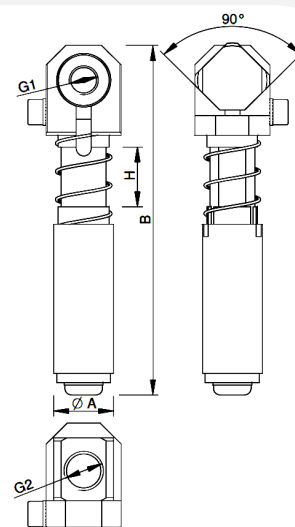
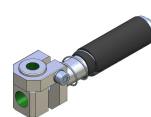
Spring Loaded Vacuum Cup Arm - Greifarm Gefedert Drehbar
Supporto Ammortizzato con Filetto
Suspension de Rotation, avec Corps Taraudé
Soporte Roscado de Muelle para Ventosas

	A	B	G1	G2	H	F(N)	
CA.GGDG.10050510	M10x1	59	M5	M5	10	8	17 g
CA.GGDG.10050530	M10x1	85	M5	M5	30	11	20 g
CA.GGDG.14181815	M14x1.5	86	G 1/8	G 1/8	15	9	41 g
CA.GGDG.14181840	M14x1.5	111	G 1/8	G 1/8	40	14.6	45 g
CA.GGDG.20141820	M20x1.5	109	G 1/4	G 1/8	20	11.7	99 g
CA.GGDG.20141850	M20x1.5	147	G 1/4	G 1/8	50	16.8	118 g



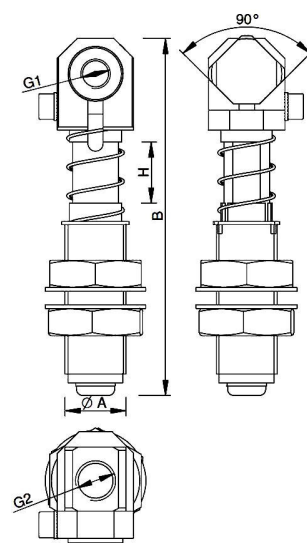
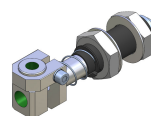
Spring Loaded Non-Rotative Vacuum Cup Arm Easy
Greifarm Gefedert Verdrehgesichert Einfach
Supporto Ammortizzato Antirotazionale Easy
Suspension Anti-Rotation, avec Corps lisse Easy
Soporte Liso de Muelle Antitorsi3n Easy

	A	B	G1	G2	H	F(N)	
CA.GGVE.10050510	10	59	M5	M5	10	8	10 g
CA.GGVE.10050530	10	85	M5	M5	30	11	14 g
CA.GGVE.14181815	14	86	G 1/8	G 1/8	15	9	32 g
CA.GGVE.14181840	14	111	G 1/8	G 1/8	40	14.6	36 g
CA.GGVE.20141820	20	109	G 1/4	G 1/8	20	11.7	72 g
CA.GGVE.20141850	20	147	G 1/4	G 1/8	50	16.8	89 g



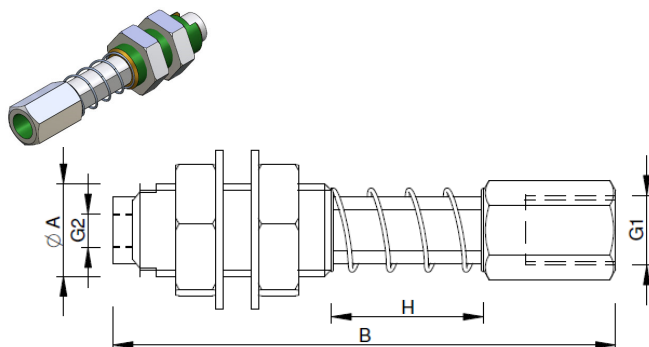
Spring Loaded Non-Rotative Vacuum Cup Arm
Greifarm Gefedert Verdrehgesichert
Supporto Ammortizzato Antirotazionale
Suspension Anti-Rotation, avec Corps Lisse
Soporte Liso de Muelle Antitorsi3n

	A	B	G1	G2	H	F(N)	
CA.GGV.10050510	10	64	M5	M5	10	8	20 g
CA.GGV.10050530	10	90	M5	M5	30	11	24 g
CA.GGV.14181815	14	91	G 1/8	G 1/8	15	9	45 g
CA.GGV.14181840	14	116	G 1/8	G 1/8	40	14.6	49 g
CA.GGV.20141820	20	117	G 1/8	G 1/4	20	11.7	99 g
CA.GGV.20141850	20	155	G 1/8	G 1/4	50	16.8	121 g



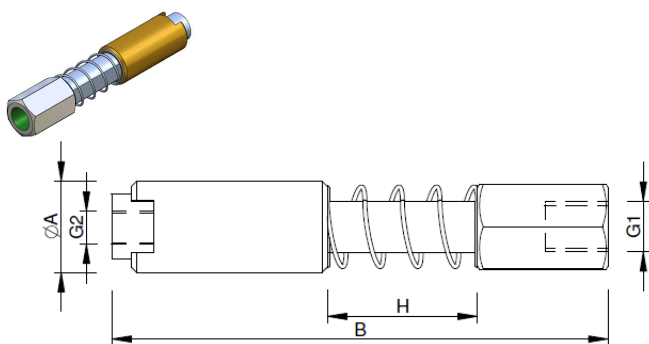
Spring Loaded Non-Rotative Vacuum Cup Arm
Greifarm Gefedert Verdrehgesichert
Supporto Filettato Ammortizzato Antirotazionale
Suspension Anti-Rotation, Avec Corps Taraudé
Soporte Roscado de Muelle Antitorsi3n

	A	B	G1	G2	H	F(N)	
CA.GGVG.10050510	M10x1	64	M5	M5	10	8	25 g
CA.GGVG.10050530	M10x1	90	M5	M5	30	11	29 g
CA.GGVG.14181815	M14x1.5	91	G 1/8	G 1/8	15	9	53 g
CA.GGVG.14181840	M14x1.5	116	G 1/8	G 1/8	40	14.6	57 g
CA.GGVG.20141820	M20x1.5	117	G 1/8	G 1/4	20	11.7	125 g
CA.GGVG.20141850	M20x1.5	155	G 1/8	G 1/4	50	16.8	142 g



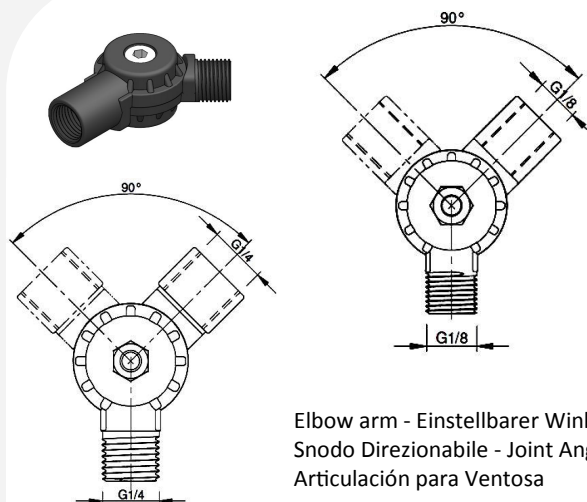
Spring Loaded Non-Rotative Vacuum Cup Arm
Greifarm Gefedert Verdrehgesichert
Sospensione Antirotazionale Filettata
Suspension Anti-Rotation, avec Corps Taraudé
Soporte Roscado de Muelle Antitorsi6n

	A	B	G1	G2	H	F(N)	
CA.05.01.001	M14x1.5	100	G 1/8	M5	38	23.2	70 g
CA.05.01.002	M20x1.5	125	G 1/4	G 1/8	48	16.7	178 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	158 g
CA.05.01.005	M10x1	70	M5	M5	20	3.4	36 g
CA.05.01.005.6N	M10x1	70	M5	M5	20	6	36 g
CA.05.01.006	M10x1	59	M5	M5	10	4.8	33 g
CA.05.01.006.6N	M10x1	59	M5	M5	10	6	33 g
CA.05.01.50	M14x1.5	123	G 1/8	M5	50	17	65 g
CA.05.01.75	M14x1.5	153	G 1/8	M5	75	19	97 g
CA.05.01.100	M14x1.5	193	G 1/8	M5	100	18	118 g



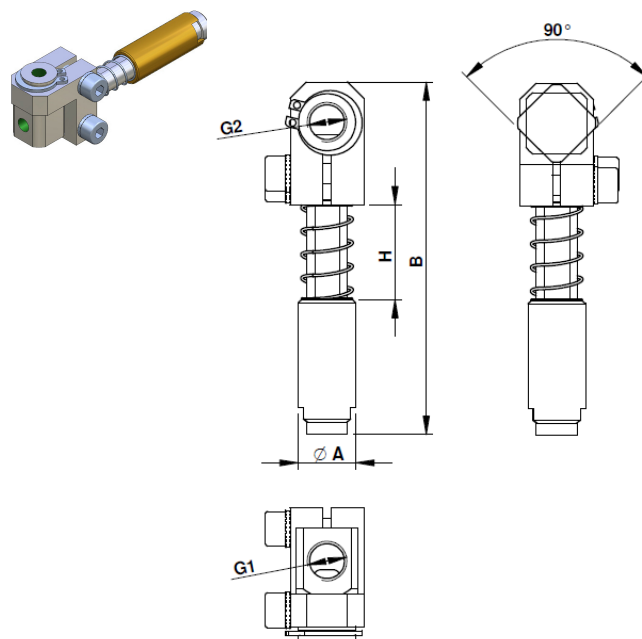
Spring Loaded Non-Rotative Vacuum Cup Arm
Greifarm Gefedert Verdrehgesichert
Sospensione Antirotazionale
Suspension Anti-Rotation, avec Corps Lisse
Soporte Liso de Muelle Antitorsi6n

	A	B	G1	G2	H	F(N)	
CA.05.02.002	20	125	G 1/4	G 1/8	48	16.6	155 g
CA.05.02.004	20	100	G 1/4	G 1/8	25	18.4	135 g
CA.05.02.009	10	69	M5	M5	20	3.4	26 g
CA.05.02.009.6N	10	69	M5	M5	20	6	26 g
CA.05.02.010	10	59	M5	M5	10	4.8	23 g
CA.05.02.010.6N	10	59	M5	M5	10	6	23 g
CA.05.02.011	14	100	G 1/8	M5	38	23.3	63 g
CA.05.02.012	14	76	G 1/8	M5	17	20.7	52 g



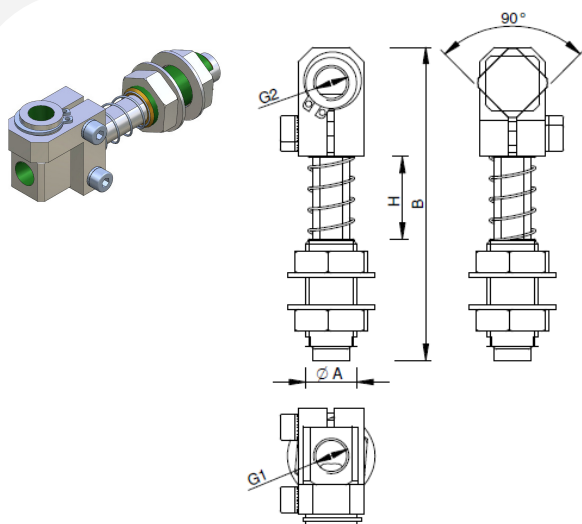
Elbow arm - Einstellbarer Winkelhalter
Snodo Direzionabile - Joint Angulaire
Articulaci6n para Ventosa

	G1	G2	
CA.07.01.001	G 1/8	G 1/8	7 g
CA.07.01.002	G 1/4	G 1/4	15 g



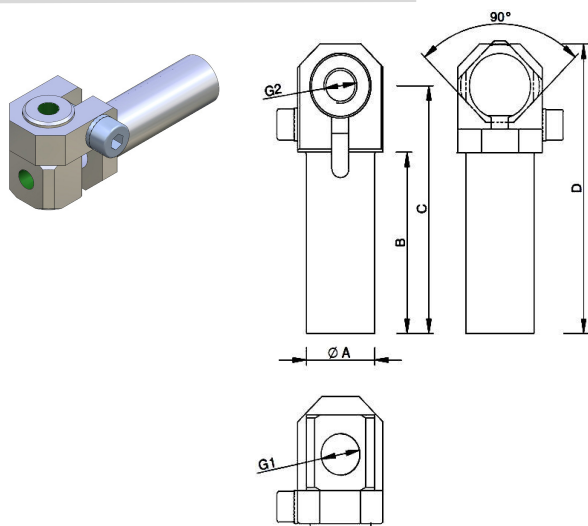
Spring Loaded Non-Rotative Vacuum Cup Arm
Greifarm Gefedert Verdrehgesichert
Supporto Ammortizzato Antirotazionale
Suspension Anti-Rotation, avec Corps Lisse
Soporte Liso de Muelle Antitorsi6n

	A	B	G1	G2	H	F(N)	
CA.GGS100515	10	69	M5	M5	10	3.6	37 g
CA.GGS100520	10	79	M5	M5	20	6	40 g
CA.GGS100530	10	98	M5	M5	30	8.6	45 g
CA.GGS141815	14	86	G 1/8	G 1/8	17	20.7	82 g
CA.GGS141840	14	110	G 1/8	G 1/8	38	23.3	89 g
CA.GGS201425	20	116	G 1/4	G 1/8	23	18.4	196 g
CA.GGS201445	20	141	G 1/4	G 1/8	45	16.7	206 g



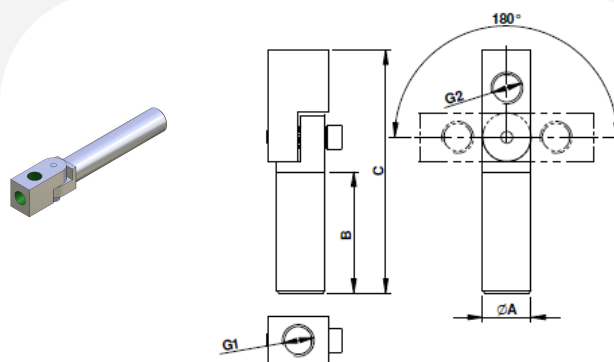
Spring Loaded Non-Rotative Vacuum Cup Arm
 Greifarm Gefedert Verdrehgesichert
 Supporto Ammortizzato Antirrotazionale
 Suspension Anti-Rotation, avec Corps Lisse
 Soporte Liso de Muelle Antitorsión

	A	B	G1	G2	H	F(N)	
CA.GGSM100515	M10X1	69	M5	M5	10	6	42 g
CA.GGSM100520	M10X1	79	M5	M5	20	6	45 g
CA.GGSM100530	M10X1	98	M5	M5	30	8.6	50 g
CA.GGSM141815	M14X1.5	86	G 1/8	G 1/8	17	20.7	85 g
CA.GGSM141840	M14X1.5	110	G 1/8	G 1/8	38	23.3	101 g
CA.GGSM201425	M20X1.5	116	G 1/4	G 1/8	23	18.4	216 g
CA.GGSM201445	M20X1.5	141	G 1/4	G 1/8	45	16.7	242 g



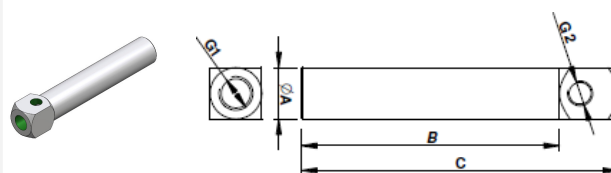
Swivel Gripper Arm - Greifarm Beweglich
 Giunto Supporto Ventosa - Coude a Support pour Ventouse
 Brazo portaventosa (pivotante)

	A	B	C	D	G1	G2	
CA.GGB.10050530	10	30	41	48	M5	M5	14 g
CA.GGB.10050560	10	60	71	78	M5	M5	17 g
CA.GGB.10050590	10	90	101	108	M5	M5	21 g
CA.GGB.14181840	14	40	56	65	G 1/8	G 1/8	30 g
CA.GGB.14181880	14	80	96	105	G 1/8	G 1/8	38 g
CA.GGB.141818120	14	120	136	145	G 1/8	G 1/8	46 g
CA.GGB.20141850	20	50	68	80	G 1/4	G 1/8	58 g
CA.GGB.201418100	20	100	118	130	G 1/4	G 1/8	73 g
CA.GGB.201418150	20	150	168	180	G 1/4	G 1/8	88 g



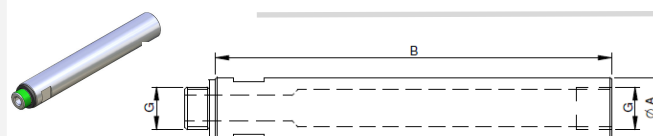
Swivel Gripper Arm - Greifarm beweglich
 Giunto Supporto Ventosa - Bras porte ventouse angulaire
 Brazo portaventosa (pivotante)

	A	B	C	G1	G2	
CA.GGE.10.M5.M5	10	60	90	M5	M5	20 g
CA.GGE.14.18.18	14	80	120	G 1/8	G 1/8	50 g
CA.GGE.20.14.18	20	100	150	G 1/4	G 1/8	99 g
CA.GGE.20.14.14	20	100	150	G 1/4	G 1/4	97 g
CA.GGE.201414150	20	150	200	G 1/4	G 1/4	156 g



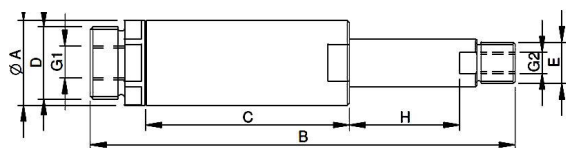
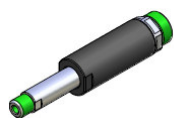
Gripper Arm - Greifarm für Vakuumsauger - Gambo per Ventosa
 Bras porte Ventouse - Brazo Portaventosa (rígido)

	A	B	C	G1	G2	
CA.GSE.1018M530	10	30	52	G 1/8	M5	10 g
CA.GSE.1018M560	10	60	82	G 1/8	M5	12 g
CA.GSE.1018M590	10	90	112	G 1/8	M5	15 g
CA.GSE.10M5M530	10	30	46	M5	M5	8 g
CA.GSE.10M5M560	10	60	76	M5	M5	15 g
CA.GSE.10M5M590	10	90	106	M5	M5	24 g
CA.GSE.14181840	14	40	62	G 1/8	G 1/8	20 g
CA.GSE.14181880	14	80	102	G 1/8	G 1/8	30 g
CA.GSE.141818120	14	120	142	G 1/8	G 1/8	43 g
CA.GSE.20141850	20	50	73	G 1/4	G 1/8	41 g
CA.GSE.201418100	20	100	123	G 1/4	G 1/8	63 g
CA.GSE.201418150	20	150	173	G 1/4	G 1/8	78 g
CA.GSE.30141480	30	80	108	G 1/4	G 1/4	63 g
CA.GSE.301414140	30	140	168	G 1/4	G 1/4	182 g
CA.GSE.301414200	30	200	228	G 1/4	G 1/4	284 g



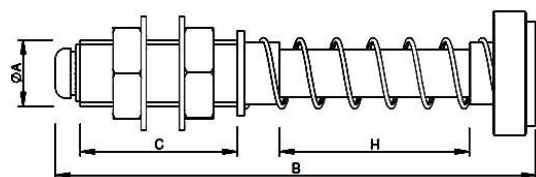
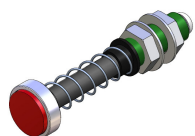
Extension tube with air lead - Verlängerungsrohr mit Luftkanal
 Prolunga per Ventosa - Prolongateur avec canal d'air
 Prolongación para Ventosa

	A	B	G	
CA.GSEG.100545	10	45	M5	10 g
CA.GSEG.100590	10	90	M5	15 g
CA.GSEG.141845	14	45	G 1/8	15 g
CA.GSEG.141890	14	90	G 1/8	25 g
CA.GSEG.201445	20	45	G 1/4	30 g
CA.GSEG.201490	20	90	G 1/4	55 g



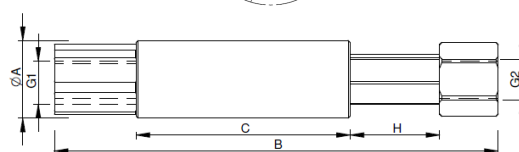
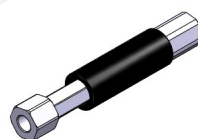
Telescopic self-retracting suspension
Selbst-einziehende Teleskop-Aufhängung
Sospensione Auto Retrattile
Suspension télescopique auto rétractable
Soporte Auto-Retractable

	A	B	C	D	E	G1	G2	H	F(N)
CA.SAR.2025	20	100	48	M17x1	G 1/8	G 1/8	M5	25	3.6 42 g
CA.SAR.2050	20	150	73	M17x1	G 1/8	G 1/8	M5	50	4.2 56 g



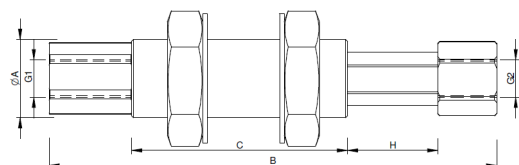
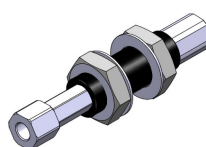
Spring rod - Druckstück gefedert - Pressore a Molla
Pressor a Ressort - Barra de Muelle

	A	B	C	H	F(N)
CA.VSX.1440	M14X1.5	101	42	40	60 g



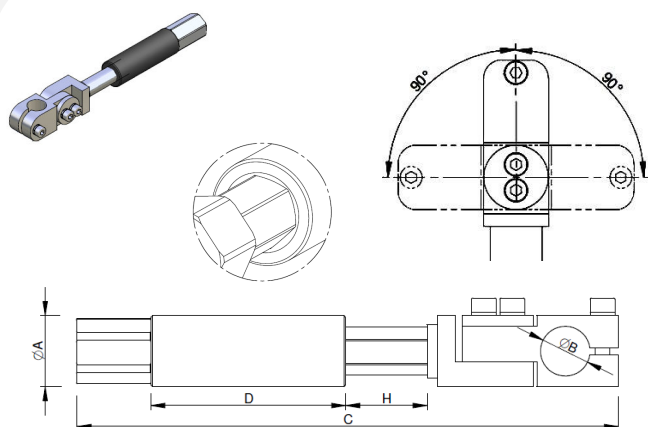
Smooth-Body Non-Rotative Telescopic Suspension
Greifarm Gefedert, Verdrehgesichert
Sospensione Anti-Rotazionale Liscia
Suspension Anti-Rotation avec Corps Lisse
Soporte Liso Antitorsión

	A	B	C	G1	G2	H	F(N)
CA.SDN.1010	10	60.5	26.5	M5	M5	10	3.6 9 g
CA.SDN.1025	10	89.5	41.5	M5	M5	25	3.7 12 g
CA.SDN.1420	14	102.5	42	G 1/8	G 1/8	20	8.9 25 g
CA.SDN.1435	14	132.5	60	G 1/8	G 1/8	35	9.5 32 g
CA.SDN.2025	20	114.5	55	G 1/8	G 1/8	25	11 62 g
CA.SDN.2050	20	169	82.5	G 1/8	G 1/8	50	11.4 83 g



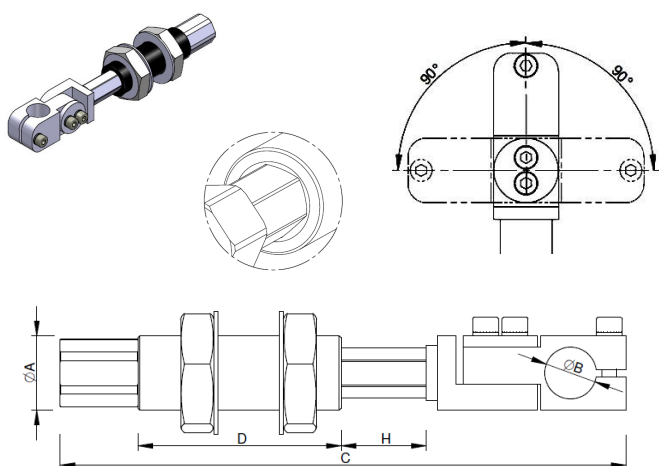
Smooth-Body Non-Rotative Telescopic Suspension
Verdrehgesicherte Aufhängung mit Gewindekörper
Sospensione Anti-Rotazionale Filettata
Suspension Anti-Rotation avec Corps Fileté
Soporte Roscado Antitorsión

	A	B	C	G1	G2	H	F(N)
CA.SDNG.1010	M10X1	60.5	26.5	M5	M5	10	3.6 12 g
CA.SDNG.1025	M10X1	89.5	41.5	M5	M5	25	3.7 15 g
CA.SDNG.1420	M14X1.5	102.5	42	G 1/8	G 1/8	20	8.9 33 g
CA.SDNG.1435	M14X1.5	132.5	60	G 1/8	G 1/8	35	9.5 41 g
CA.SDNG.2025	M20X1.5	114.5	55	G 1/8	G 1/8	25	11 90 g
CA.SDNG.2050	M20X1.5	169	82.5	G 1/8	G 1/8	50	11.4 111 g



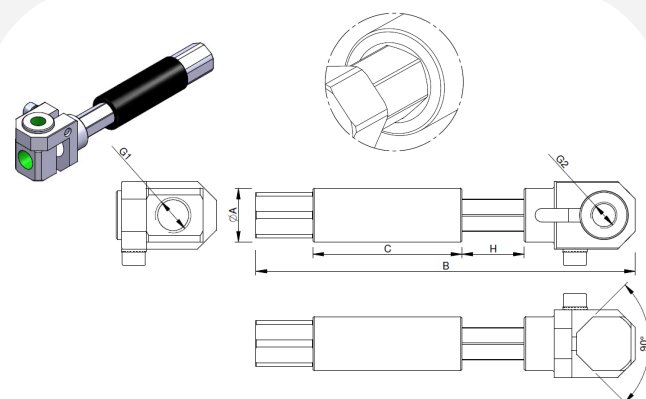
Smooth-Body Non-Rotative Suspension
Greifarm Gefedert Verstellbar Rund, Verdrehgesichert
Sospensione Anti-Rotazione - Suspension Anti-Rotation
Compensador de nivel anti-rotación, con cuerpo liso
Suspension Anti-Rotation, avec Corps Lisse
Compensador de Nivel Anti-Rotación, con Cuerpo Liso

	A	B	C	D	H	F(N)	
CA.SMN.142010	14	10	129	42	20	8.9	43 g
CA.SMN.143510	14	10	157.5	60	35	9.5	50 g
CA.SMN.202514	20	14	150	55	25	11	103 g
CA.SMN.202520	20	20	163.5	55	25	11	115 g
CA.SMN.205014	20	14	208	82.5	50	11.4	124 g
CA.SMN.205020	20	20	221.5	82.5	50	11.4	130 g



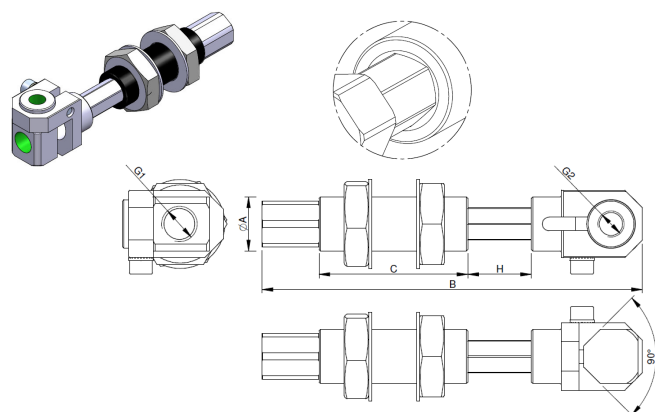
Threaded-body Non-Rotative Suspension
Verdrehgesicherte Aufhängung mit Gewindekörper
Sospensione Ammortizzata Anti-Rotazionale Filettata
Suspension Anti-Rotation avec Corps Fileté
Soporte Roscado Antitorsión

	A	B	C	D	H	F(N)	
CA.SMNG.142010	M14X1.5	10	129	42	20	8.9	51 g
CA.SMNG.143510	M14X1.5	10	157.5	60	35	9.5	59 g
CA.SMNG.202514	M20X1.5	14	150	55	25	11	130 g
CA.SMNG.205014	M20X1.5	14	208	82.5	50	11.4	152 g



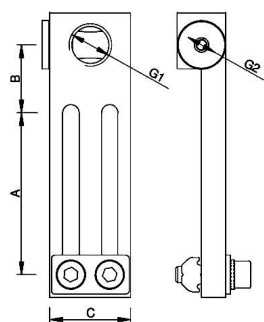
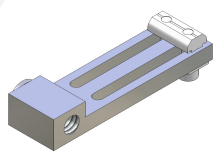
Smooth-body Non-Rotative Telescopic Suspension
Verdrehgesicherte Aufhängung mit Glattem Körper
Sospensione Anti-Rotazionale
Suspension Anti-Rotation avec Corps Lisse
Soporte Liso Antitorsión

	A	B	C	G1	G2	H	F(N)	
CA.SSN.10100505	10	56	21	M5	M5	10	3.6	20 g
CA.SSN.10250505	10	90.5	40.5	M5	M5	25	3.7	30 g
CA.SSN.14201818	14	98.5	38.5	G 1/8	G 1/8	20	8.9	50 g
CA.SSN.14351818	14	113.5	58.5	G 1/8	G 1/8	35	9.5	55 g
CA.SSN.20251418	20	110	49	G 1/4	G 1/8	25	11	105 g
CA.SSN.20501418	20	167.5	81.5	G 1/4	G 1/8	50	11.4	130 g



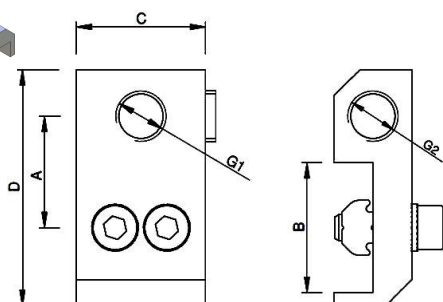
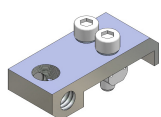
Threaded-body Non-Rotative Suspension
Verdrehgesicherte Aufhängung mit Gewindekörper
Sospensione Anti-Rotazionale Filettata
Suspension Anti-Rotation avec Corps Fileté
Soporte Roscado Antitorsión

	A	B	C	G1	G2	H	F(N)	
CA.SSNG.10100505	M10X1	56	21	M5	M5	10	3.6	23 g
CA.SSNG.10250505	M10X1	90.5	40.5	M5	M5	25	3.7	33 g
CA.SSNG.14201818	M14X1.5	98.5	38.5	G 1/8	G 1/8	20	8.9	58 g
CA.SSNG.14351818	M14X1.5	113.5	58.5	G 1/8	G 1/8	35	9.5	63 g
CA.SSNG.20251418	M20X1.5	110	49	G 1/4	G 1/8	25	11	130 g
CA.SSNG.20501418	M20X1.5	167.5	81.5	G 1/4	G 1/8	50	11.4	155 g



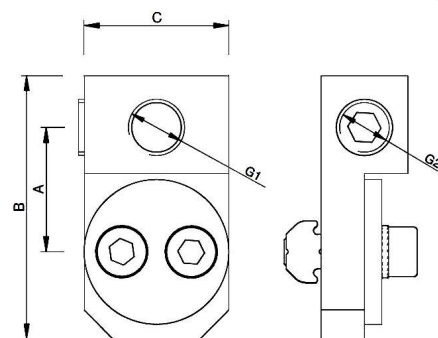
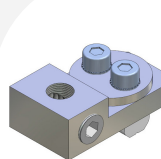
Thread Clamp Adjustable - Winkelstück Gewinde Verstellbar
Staffa Lunga per Ventosa - Bride Longue pour Ventouse
Brida (regulable)

	A	B	C	G1	G2	M*	
CA.WLS.M5.M5.X	40	14	16	M5	M5	L/X	23 g
CA.WLS.18.18.X	50	21	25	G 1/8	G 1/8	X/JU	65 g
CA.WLS.14.18.X	50	21	25	G 1/4	G 1/8	X/JU	65 g
CA-WLS.14.14.JU	50	23	25	G 1/4	G 1/4	JU	73 g



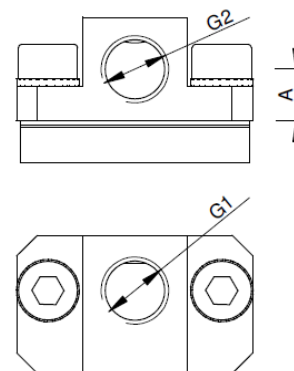
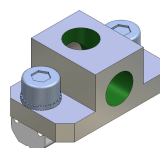
Threadclamp fixed - Winkelstück Gewinde Fest - Staffa per Ventosa
Bride pour Ventouse - Pieza de apriete en escuadra

	A	B	C	D	G1	G2	M*
CA.WSS.L.M5.M5	17	18	16	32	M5	M5	L 18 g
CA.WSS.X.18.18	22	25	25	46	G 1/8	G 1/8	X 49 g
CA.WSS.X.14.18	22	25	25	46	G 1/4	G 1/8	X 49 g
CA.WSS.JU.14.18	29	40	25	60	G 1/4	G 1/8	JU 49 g



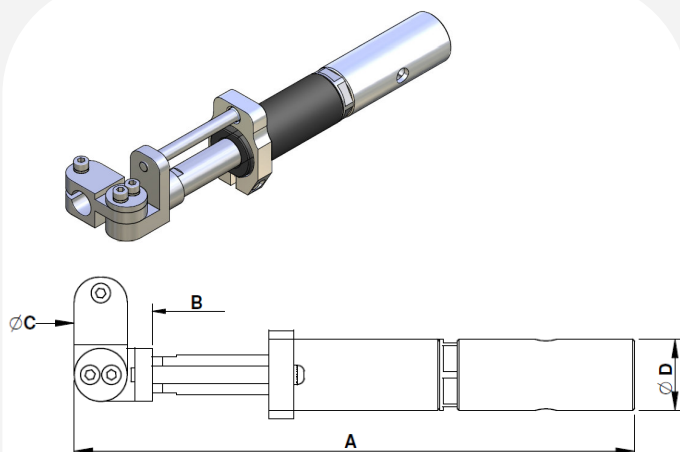
Adjustable connector for Vacuum Cups - Winkelstück 360°, drehbar
Staffa per Attacco Ventosa Orientabile
Bride angulaire pour Ventouse - Atornilladura en Ángulo (pivotante)

	A	B	C	G1	G2	M*	
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	21	46	25	G 1/4	G 1/8	X	44 g



Clamp for Vacuum Cups - Sauggreifer Befestigungsstück
Staffa attacco diretto Ventosa
Bride de fixation directe pour Ventouse
Atornilladura en Ángulo (para el montaje lateral)

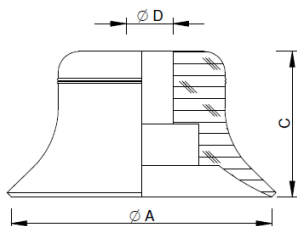
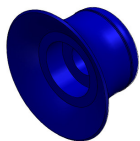
	A	G1	G2	M*	
CA.SGB.5.5.X	4	M5	M5	L	27 g
CA.SGB.18.18.X	7.5	G 1/8	G 1/8	X/JU	35 g
CA.SGB.14.14.X	10	G 1/4	G 1/4	X/JU	39 g



Telescopic Self-Retracting Suspension
 Selbst-Einziehende Teleskop-Aufhängung
 Sospensione Auto Retrattile
 Suspension Téléscopique Auto Rétractable
 Soporte Auto-Retractable

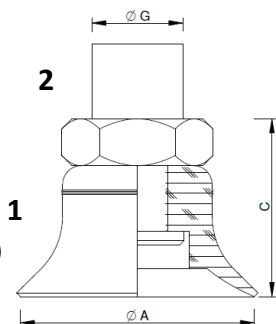
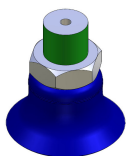
	A	B	C	D
CA.SMAR.2025	163	25	Ø 10	Ø 20
CA.SMAR.2050	213	50	Ø 10	Ø 20

HT1 SERIES



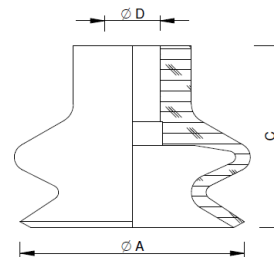
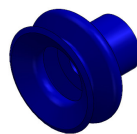
Vacuum Cup with 1 bellow only - Saugnapf mit 1 kante
Ventosa con 1 soffietto - Ventouse avec 1 soufflett
Ventosa de 1 fuelle

	A	C	D	F(N)	
CA.08.29.001	Ø5	6.5	Ø4	0.75	1 g
CA.08.29.002	Ø6	6.5	Ø4	1.2	1 g
CA.08.29.003	Ø8	7	Ø4	2.3	1 g
CA.08.29.004	Ø10	7.5	Ø4	4	1 g
CA.08.29.005	Ø15	8	Ø4.5	9	1 g
CA.08.29.006	Ø20	10	Ø4.5	15.5	1 g
CA.08.29.007	Ø25	14	Ø6	26.5	2 g
CA.08.29.008	Ø30	12	Ø6	34	3 g
CA.08.29.009	Ø35	14	Ø6	44	5 g
CA.08.29.010	Ø40	14	Ø6	57.7	7 g
CA.08.29.011	Ø50	15	Ø8	91	15 g
CA.08.29.012	Ø60	18	M10x1.25	125	19 g
CA.08.29.013	Ø80	20	M10x1.25	260	38 g



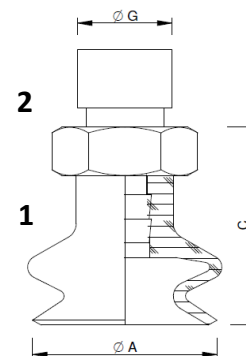
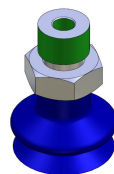
Vacuum Cup with 1 bellow (complete)
Saugnapf mit 1 kante (komplett)
Ventosa con 1 soffietto (completa)
Ventouse avec 1 soufflett (complet)
Ventosa de 1 fuelle (completa)

	1	2	A	C	G	
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	CA.08.09.014	Ø6	9.5	M5	5 g
KIT.08.29.D08	CA.08.29.003	CA.08.09.014	Ø8	12	M5	5 g
KIT.08.29.D10	CA.08.29.004	CA.08.09.014	Ø10	12.5	M5	6 g
KIT.08.29.D15	CA.08.29.005	CA.08.09.015	Ø15	13.3	G 1/8	6 g
KIT.08.29.D20	CA.08.29.006	CA.08.09.016	Ø20	15	G 1/8	6 g
KIT.08.29.D25	CA.08.29.007	CA.08.09.017	Ø25	19	G 1/8	7 g
KIT.08.29.D30	CA.08.29.008	CA.08.09.017	Ø30	17	G 1/8	8 g
KIT.08.29.D35	CA.08.29.009	CA.08.09.017	Ø35	19	G 1/8	10 g
KIT.08.29.D40	CA.08.29.010	CA.08.09.017	Ø40	19	G 1/8	12 g
KIT.08.29.D50	CA.08.29.011	CA.08.09.018	Ø50	20	G 1/8	20 g
KIT.08.29.D60	CA.08.29.012	CA.08.09.019	Ø60	23	G 1/4	24 g
KIT.08.29.D80	CA.08.29.013	CA.08.09.019	Ø80	25	G 1/4	43 g



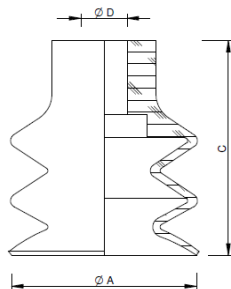
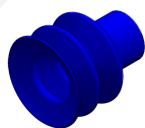
Vacuum Cup with 2 bellows only - Saugnapf mit 2 kanten
Ventosa con 2 soffietti - Ventouse avec 2 souffletts
Ventosa de 2 fuelles

	A	C	D	F(N)	
CA.08.31.012	Ø6	9	Ø3.7	1.5	1 g
CA.08.31.001	Ø11	16	Ø5	2.4	1 g
CA.08.31.002	Ø14	16	Ø5	3.5	1g
CA.08.31.003	Ø16	19	Ø5	3.7	3g
CA.08.31.004	Ø20	16	Ø4.7	7.7	4 g
CA.08.31.005	Ø22	20	Ø4.7	9	5 g
CA.08.31.006	Ø25	23	Ø4.7	11	5 g
CA.08.31.007	Ø33	27.5	Ø8	19.2	7 g
CA.08.31.008	Ø43	28	Ø8	28	12 g
CA.08.31.009	Ø53	34	Ø8	59	18 g
CA.08.31.010	Ø63	34	Ø8	82	23 g
CA.08.31.011	Ø78	46.8	Ø12	152	32 g



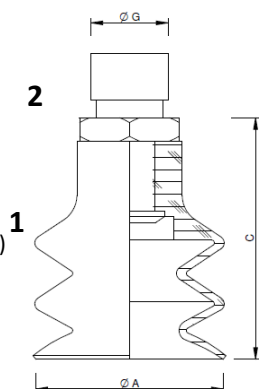
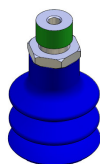
Vacuum Cup with 2 bellows (complete)
Saugnapf mit 2 kanten (komplett)
Ventosa con 2 soffietti (completa)
Ventouse avec 2 souffletts (complet)
Ventosa de 2 fuelles (completa)

	1	2	A	C	G	
KIT.08.31.D06.14	CA.08.31.012	CA.08.09.014	Ø6	14	M5	2 g
KIT.08.31.D11.4	CA.08.31.001	CA.08.09.004	Ø11	20.5	M5	2 g
KIT.08.31.D11.9	CA.08.31.001	CA.08.09.009	Ø11	21	G1/8	4 g
KIT.08.31.D14.4	CA.08.31.002	CA.08.09.004	Ø14	20.5	M5	2 g
KIT.08.31.D14.9	CA.08.31.002	CA.08.09.009	Ø14	21	G1/8	4 g
KIT.08.31.D16.4	CA.08.31.003	CA.08.09.004	Ø16	23.5	M5	4 g
KIT.08.31.D16.9	CA.08.31.003	CA.08.09.009	Ø16	24	G1/8	6 g
KIT.08.31.D20.4	CA.08.31.004	CA.08.09.004	Ø20	20.5	M5	5 g
KIT.08.31.D20.9	CA.08.31.004	CA.08.09.009	Ø20	21	G1/8	7 g
KIT.08.31.D22.4	CA.08.31.005	CA.08.09.004	Ø22	20.5	M5	6 g
KIT.08.31.D22.9	CA.08.31.005	CA.08.09.009	Ø22	21	G1/8	8 g
KIT.08.31.D25.4	CA.08.31.006	CA.08.09.004	Ø25	27.5	M5	6 g
KIT.08.31.D25.9	CA.08.31.006	CA.08.09.009	Ø25	28	G1/8	8 g
KIT.08.31.D33.11	CA.08.31.007	CA.08.09.011	Ø33	33.5	G1/8	11 g
KIT.08.31.D33.21	CA.08.31.007	CA.08.09.021	Ø33	31.5	G1/4	15 g
KIT.08.31.D43.11	CA.08.31.008	CA.08.09.011	Ø43	34	G1/8	16 g
KIT.08.31.D43.21	CA.08.31.008	CA.08.09.021	Ø43	32	G1/4	20 g
KIT.08.31.D53.11	CA.08.31.009	CA.08.09.011	Ø53	40.5	G1/8	22 g
KIT.08.31.D53.21	CA.08.31.009	CA.08.09.021	Ø53	38	G1/4	26 g
KIT.08.31.D63.21	CA.08.31.010	CA.08.09.021	Ø63	38	G1/4	31 g
KIT.08.31.D78.24	CA.08.31.011	CA.08.09.024	Ø78	52.8	G1/4	47 g



Vacuum Cup with 3 bellows only - Saugnapf mit 3 kanten
Ventosa con 3 soffiatti - Ventouse avec 3 soufflets
Ventosa de 3 fuelles

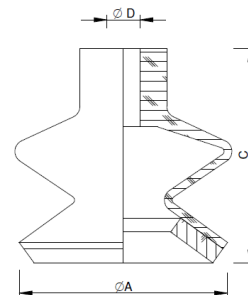
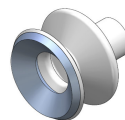
	A	C	D	F(N)	
CA.08.32.D09	Ø9	15	Ø4	0.7	2 g
CA.08.32.D12	Ø12	21	Ø4	0.9	3 g
CA.08.32.D14	Ø14	23	Ø4	1.2	4 g
CA.08.32.D20	Ø20	22	Ø4	3.8	6 g
CA.08.32.D25	Ø25	34	Ø4	4.5	7 g
CA.08.32.D32	Ø32	37	Ø8	12	8 g
CA.08.32.D42	Ø42	46	Ø8	13.6	10 g



Vacuum Cup with 3 bellows (complete)
Saugnapf mit 3 kanten (komplett)
Ventosa con 3 soffiatti (completa)
Ventouse avec 3 soufflets (complet)
Ventosa de 3 fuelles (completa)

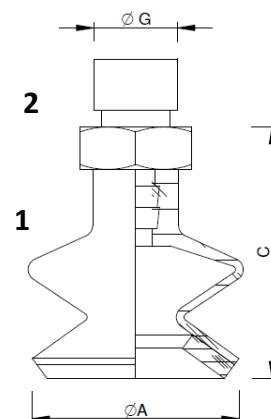
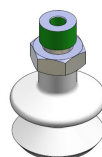
	1	2	A	C	G	
KIT.08.32.D09.26	CA.08.32.D09	CA.08.09.026	Ø9	20	M5	3 g
KIT.08.32.D12.4	CA.08.32.D12	CA.08.09.004	Ø12	25.5	M5	4 g
KIT.08.32.D12.9	CA.08.32.D12	CA.08.09.009	Ø12	26	G1/8	6 g
KIT.08.32.D14.4	CA.08.32.D14	CA.08.09.004	Ø14	27.5	M5	5 g
KIT.08.32.D14.9	CA.08.32.D14	CA.08.09.009	Ø14	28	G1/8	7 g
KIT.08.32.D20.4	CA.08.32.D20	CA.08.09.004	Ø20	26.5	M5	10 g
KIT.08.32.D20.9	CA.08.32.D20	CA.08.09.009	Ø20	27	G1/8	12 g
KIT.08.32.D25.4	CA.08.32.D25	CA.08.09.004	Ø25	38.5	M5	11 g
KIT.08.32.D25.9	CA.08.32.D25	CA.08.09.009	Ø25	39	G1/8	13 g
KIT.08.32.D32.11	CA.08.32.D32	CA.08.09.011	Ø32	43.3	G1/8	12 g
KIT.08.32.D32.21	CA.08.32.D32	CA.08.09.021	Ø32	41	G1/4	14 g
KIT.08.32.D42.11	CA.08.32.D42	CA.08.09.011	Ø42	52.3	G1/8	14 g
KIT.08.32.D42.21	CA.08.32.D42	CA.08.09.021	Ø42	50	G1/4	18 g

SILICONE SERIES



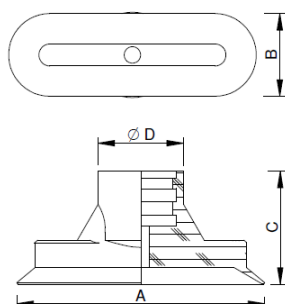
Vacuum Cup with 2 bellows and foam strip
Saugnapf mit 2 kanten und schaumstoffband
Ventosa con 2 soffiatti con anello in spugna
Ventouse avec 2 soufflets et bandes mousses annulaires
Ventosa de 2 fuelles con espuma

	A	C	D	F(N)	
CA.08.26.D16.AS	Ø16	21	Ø3.8	7	2 g
CA.08.26.D20.AS	Ø20	18	Ø3.8	9	2 g
CA.08.26.D25.AS	Ø25	25	Ø3.8	11	3 g
CA.08.26.D33.AS	Ø33	29	Ø8	19.2	7 g
CA.08.26.D43.AS	Ø43	32	Ø8	28	13 g
CA.08.26.D53.AS	Ø53	38	Ø8	59	22 g
CA.08.26.D63.AS	Ø63	37	Ø8	82	26 g
CA.08.26.D78.AS	Ø78	51	Ø12	152	51 g



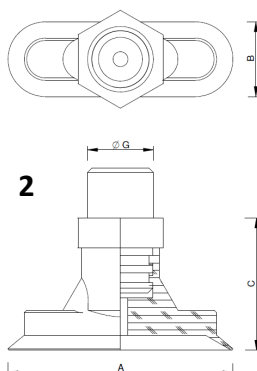
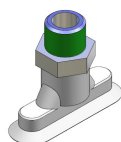
Vacuum Cup with 2 bellows and foam strip (complete);
Saugnapf mit 2 kanten und schaumstoffband (komplett);
Ventosa con 2 soffiatti con anello in spugna (completa);
Ventouse avec 2 soufflets et bandes mousses annulaires (complet);
Ventosa de 2 fuelles con espuma (completa);

	1	2	A	C	G	
KIT.08.26.D16.4	CA.08.26.D16.AS	CA.08.09.004	Ø16	25.5	M5	3 g
KIT.08.26.D16.9	CA.08.26.D16.AS	CA.08.09.009	Ø16	26	G1/8	6 g
KIT.08.26.D20.4	CA.08.26.D20.AS	CA.08.09.004	Ø20	22.5	M5	3 g
KIT.08.26.D20.9	CA.08.26.D20.AS	CA.08.09.009	Ø20	23	1/8	6 g
KIT.08.26.D25.4	CA.08.26.D25.AS	CA.08.09.004	Ø25	29.5	M5	4 g
KIT.08.26.D25.9	CA.08.26.D25.AS	CA.08.09.009	Ø25	30	1/8	6 g
KIT.08.26.D33.11	CA.08.26.D33.AS	CA.08.09.011	Ø33	35.3	1/8"	11 g
KIT.08.26.D33.21	CA.08.26.D33.AS	CA.08.09.021	Ø33	33	1/4"	15 g
KIT.08.26.D43.11	CA.08.26.D43.AS	CA.08.09.011	Ø43	38.3	1/8"	17 g
KIT.08.26.D43.21	CA.08.26.D43.AS	CA.08.09.021	Ø43	36	1/4"	21 g
KIT.08.26.D53.11	CA.08.26.D53.AS	CA.08.09.011	Ø53	44.3	1/8"	26 g
KIT.08.26.D53.21	CA.08.26.D53.AS	CA.08.09.021	Ø53	42	1/4"	30 g
KIT.08.26.D63.11	CA.08.26.D63.AS	CA.08.09.011	Ø63	43.3	1/8"	30 g
KIT.08.26.D63.21	CA.08.26.D63.AS	CA.08.09.021	Ø63	41	1/4"	34 g
KIT.08.26.D78.24	CA.08.26.D78.AS	CA.08.09.024	Ø78	57	1/4"	57 g



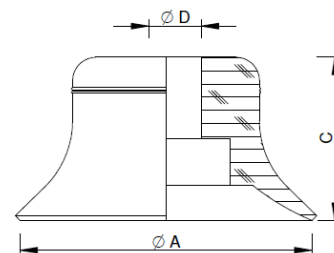
Vacuum Cup oval only - Saugnapf, oval - Ventosa ovale
Ventouse ovale - Ventosa oval

	A	B	C	D	F(N)	
CA.08.27.001	24	8	12	Ø12	8	1 g
CA.08.27.002	30	10	12	Ø12	12.2	1 g
CA.08.27.003	36	12	12	Ø12	20	7 g
CA.08.27.004	45	15	21	Ø17	28	4 g
CA.08.27.005	60	20	21	Ø18	50	7 g
CA.08.27.006	75	25	21	Ø18	78	14 g



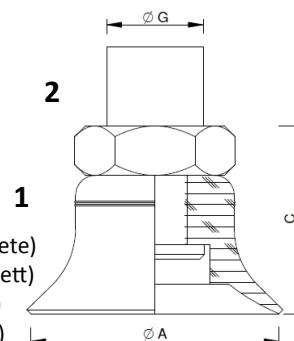
Vacuum Cup oval (complete)
Vakuumsauger oval (komplett)
Ventosa ovale (completa)
Ventouse ovale (complet)
Ventosa oval (completa)

	1	2	A	B	C	G	
KIT.08.27.L24.1A	CA.08.27.001	CA.08.09.001.AL	24	8	15.7	G 1/8	4 g
KIT.08.27.L30.1A	CA.08.27.002	CA.08.09.001.AL	30	10	15.7	G 1/8	4 g
KIT.08.27.L36.1A	CA.08.27.003	CA.08.09.001.AL	36	12	15.7	G 1/8	10 g
KIT.08.27.L45.13	CA.08.27.004	CA.08.09.013	45	15	27	G 1/4	23 g
KIT.08.27.L60.13	CA.08.27.005	CA.08.09.013	60	20	27	G 1/4	26 g
KIT.08.27.L75.13	CA.08.27.006	CA.08.09.013	75	25	27	G 1/4	33 g



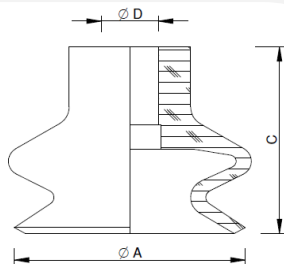
Vacuum Cup with 1 bellow only - Saugnapf mit 1 kante
Ventosa con 1 soffietto - Ventouse avec 1 soufflet
Ventosa de 1 fuelle

	A	C	D	F(N)	
CA.08.28.001	Ø5	6.5	Ø4	0.75	1 g
CA.08.28.002	Ø6	6.5	Ø4	1.2	1 g
CA.08.28.003	Ø8	7	Ø4	2.3	1 g
CA.08.28.004	Ø10	7.5	Ø4	4	1 g
CA.08.28.005	Ø15	8	Ø4.5	9	1 g
CA.08.28.006	Ø20	10	Ø4.5	15.5	1 g
CA.08.28.007	Ø25	14	Ø6	26.5	2 g
CA.08.28.008	Ø30	12	Ø6	34	3 g
CA.08.28.009	Ø35	14	Ø6	44	5 g
CA.08.28.010	Ø40	14	Ø6	57.7	7 g
CA.08.28.011	Ø50	15	Ø8	91	15 g
CA.08.28.012	Ø60	18	M10x1.25	125	19 g
CA.08.28.013	Ø80	20	M10x1.25	260	38 g



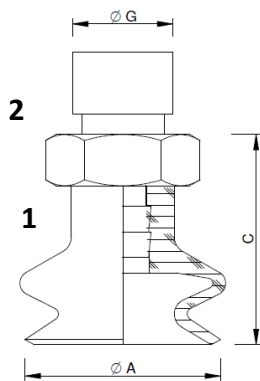
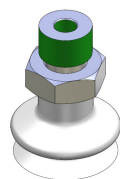
Vacuum Cup with 1 bellow (complete)
Vakuumsauger mit 1 kante (komplett)
Ventosa con 1 soffietto (completa)
Ventouse avec 1 soufflet (complet)
Ventosa de 1 fuelle (completa)

	1	2	A	C	G	
KIT.08.28.D05	CA.08.28.001	CA.08.09.014	Ø5	9.5	M5	6 g
KIT.08.28.D06	CA.08.28.002	CA.08.09.014	Ø6	9.5	M5	6 g
KIT.08.28.D08	CA.08.28.003	CA.08.09.014	Ø8	12	M5	6 g
KIT.08.28.D10	CA.08.28.004	CA.08.09.014	Ø10	12.5	M5	6 g
KIT.08.28.D15	CA.08.28.005	CA.08.09.015	Ø15	13.3	G 1/8	6 g
KIT.08.28.D20	CA.08.28.006	CA.08.09.016	Ø20	15	G 1/8	6 g
KIT.08.28.D25	CA.08.28.007	CA.08.09.017	Ø25	19	G 1/8	7 g
KIT.08.28.D30	CA.08.28.008	CA.08.09.017	Ø30	17	G 1/8	8 g
KIT.08.28.D35	CA.08.28.009	CA.08.09.017	Ø35	19	G 1/8	10 g
KIT.08.28.D40	CA.08.28.010	CA.08.09.017	Ø40	19	G 1/8	12 g
KIT.08.28.D50	CA.08.28.011	CA.08.09.018	Ø50	20	G 1/8	20 g
KIT.08.28.D60	CA.08.28.012	CA.08.09.019	Ø60	23	G 1/4	24 g
KIT.08.28.D80	CA.08.28.013	CA.08.09.019	Ø80	25	G 1/4	43 g



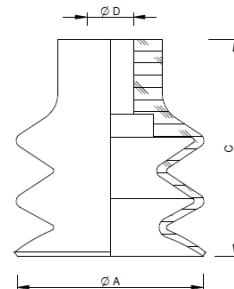
Vacuum Cup with 2 bellows only - Saugnapf mit 2 kanten
Ventosa con 2 soffiatti - Ventouse avec 2 souffletts
Ventosa de 2 fuelles

	A	C	D	F(N)	
CA.08.30.012	Ø6	9	Ø3.7	1.5	1 g
CA.08.30.001	Ø11	16	Ø5	2.4	1 g
CA.08.30.002	Ø14	16	Ø5	3.5	1 g
CA.08.30.003	Ø16	19	Ø5	3.7	3 g
CA.08.30.004	Ø20	16	Ø4.7	7.7	4 g
CA.08.30.005	Ø25	23	Ø4.7	11	5 g
CA.08.30.006	Ø33	27.5	Ø8	19.2	7 g
CA.08.30.007	Ø43	28	Ø8	28	12 g
CA.08.30.008	Ø53	34	Ø8	59	18 g
CA.08.30.009	Ø63	34	Ø8	82	23 g
CA.08.30.010	Ø78	46.8	Ø12	152	32 g



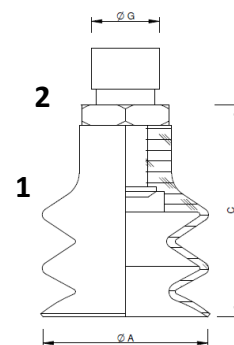
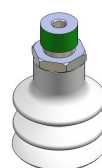
Vacuum Cup with 2 bellows (complete)
Vakuumsauger mit 2 kanten (komplett)
Ventosa con 2 soffiatti (completa)
Ventouse avec 2 souffletts (complet)
Ventosa de 2 fuelles (completa)

	1	2	A	C	G	
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.08.30.001	CA.08.09.009	Ø11	21	G1/8	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.08.30.002	CA.08.09.009	Ø14	21	G1/8	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.08.30.003	CA.08.09.009	Ø16	24	G1/8	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.08.30.004	CA.08.09.009	Ø20	21	G1/8	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.08.30.005	CA.08.09.009	Ø25	28	G1/8	8 g
KIT.08.30.D33.11	CA.08.30.006	CA.08.09.011	Ø33	33.5	G1/8	11 g
KIT.08.30.D33.21	CA.08.30.006	CA.08.09.021	Ø33	31.5	G1/4	15 g
KIT.08.30.D43.11	CA.08.30.007	CA.08.09.011	Ø43	34	G1/8	16 g
KIT.08.30.D43.21	CA.08.30.007	CA.08.09.021	Ø43	32	G1/4	20 g
KIT.08.30.D53.11	CA.08.30.008	CA.08.09.011	Ø53	40.5	G1/8	22 g
KIT.08.30.D53.21	CA.08.30.008	CA.08.09.021	Ø53	38	G1/4	26 g
KIT.08.30.D63.11	CA.08.30.009	CA.08.09.011	Ø63	40.5	G1/8	27 g
KIT.08.30.D63.21	CA.08.30.009	CA.08.09.021	Ø63	38	G1/4	31 g
KIT.08.30.D78.24	CA.08.30.010	CA.08.09.024	Ø78	52.8	G1/4	47 g



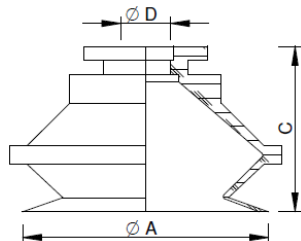
Vacuum Cup with 3 bellows only - Saugnapf mit 3 kanten
Ventosa con 3 soffiatti - Ventouse avec 3 souffletts
Ventosa de 3 fuelles

	A	C	D	F(N)	
CA.08.33.D5	Ø5	14	Ø3.5	0.15	1 g
CA.08.33.D7	Ø7	14	Ø4	0.1	1 g
CA.08.33.D9	Ø9	15	Ø4	0.68	2 g
CA.08.33.D12	Ø12	21	Ø4	0.9	3 g
CA.08.33.D14	Ø14	23	Ø4	1.2	4 g
CA.08.33.D20	Ø20	22	Ø4	3.8	6 g
CA.08.33.D25	Ø25	34	Ø4	4.5	7 g
CA.08.33.D32	Ø32	37	Ø8	12.0	8 g
CA.08.33.D42	Ø42	46	Ø8	13.6	10 g
CA.08.33.D52	Ø52	49	Ø8	27	20 g
CA.08.33.D60	Ø60	55	Ø8	32	60 g



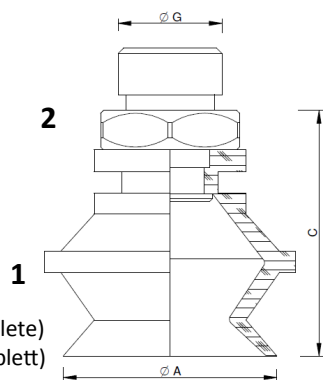
Vacuum Cup with 3 bellows (complete)
Vakuumsauger mit 3 kanten (komplett)
Ventosa con 3 soffiatti (completa)
Ventouse avec 3 souffletts (complet)
Ventosa de 3 fuelles (completa)

	1	2	A	C	G	
KIT.08.33.D5.25	CA.08.33.D5	CA.08.09.025	Ø5	18.5	M5	2 g
KIT.08.33.D7.26	CA.08.33.D7	CA.08.09.026	Ø7	19	M5	2 g
KIT.08.33.D9.26	CA.08.33.D9	CA.08.09.026	Ø9	20	M5	3 g
KIT.08.33.D12.4	CA.08.33.D12	CA.08.09.004	Ø12	25.5	M5	4 g
KIT.08.33.D12.9	CA.08.33.D12	CA.08.09.009	Ø12	26	G1/8	6 g
KIT.08.33.D14.4	CA.08.33.D14	CA.08.09.004	Ø14	27.5	M5	5 g
KIT.08.33.D14.9	CA.08.33.D14	CA.08.09.009	Ø14	28	G1/8	7 g
KIT.08.33.D20.4	CA.08.33.D20	CA.08.09.004	Ø20	26.5	M5	10 g
KIT.08.33.D20.9	CA.08.33.D20	CA.08.09.009	Ø20	27	G1/8	12 g
KIT.08.33.D25.4	CA.08.33.D25	CA.08.09.004	Ø25	38.5	M5	11 g
KIT.08.33.D25.9	CA.08.33.D25	CA.08.09.009	Ø25	39	G1/8	13 g
KIT.08.33.D32.11	CA.08.33.D32	CA.08.09.011	Ø32	43.3	G1/8	12 g
KIT.08.33.D32.21	CA.08.33.D32	CA.08.09.021	Ø32	41	G1/4	16 g
KIT.08.33.D42.11	CA.08.33.D42	CA.08.09.011	Ø42	52.3	G1/8	14 g
KIT.08.33.D42.21	CA.08.33.D42	CA.08.09.021	Ø42	50	G1/4	18 g
KIT.08.33.D52.11	CA.08.33.D52	CA.08.09.011	Ø52	55.3	G1/8	24 g
KIT.08.33.D52.21	CA.08.33.D52	CA.08.09.021	Ø52	53	G1/4	28 g
KIT.08.33.D60.21	CA.08.33.D60	CA.08.09.021	Ø60	59	G1/4	68 g



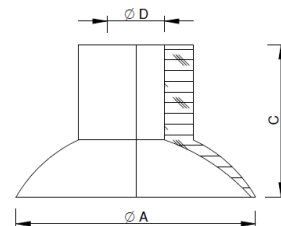
Vacuum Cup with 2 bellows only - Saugnapf mit 2 kanten
Ventosa con 2 soffiatti - Ventouse avec 2 soufflets
Ventosa de 2 fuelles

	A	C	D	F(N)	
CA.08.01.001	Ø11	16	Ø4	4.6	1 g
CA.08.01.002	Ø16	19	Ø4	7.5	2 g
CA.08.01.003	Ø20	19.5	Ø4.8	14.7	3 g
CA.08.01.004	Ø33	27	Ø6	25.5	6 g
CA.08.01.005	Ø42	28	Ø8	48.1	7 g
CA.08.01.006	Ø52	35	Ø10.5	83.3	15 g



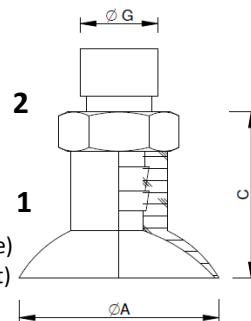
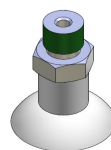
Vacuum Cup with 2 bellows (complete)
Vakuumsauger mit 2 kanten (komplett)
Ventosa con 2 soffiatti (completa)
Ventouse avec 2 soufflets (complet)
Ventosa de 2 fuelles (completa)

	1	2	A	C	G	
KIT.08.01.D11.4	CA.08.01.001	CA.08.09.004	Ø11	20.5	M5	2 g
KIT.08.01.D11.9	CA.08.01.001	CA.08.09.009	Ø11	21	G1/8	4 g
KIT.08.01.D16.4	CA.08.01.002	CA.08.09.004	Ø16	23.5	M5	3 g
KIT.08.01.D16.9	CA.08.01.002	CA.08.09.009	Ø16	24	G1/8	4 g
KIT.08.01.D20.1	CA.08.01.003	CA.08.09.001.AL	Ø20	23	G1/8	5,5 g
KIT.08.01.D30.2	CA.08.01.004	CA.08.09.002.AL	Ø33	32	G1/8	18 g
KIT.08.01.D40.2	CA.08.01.005	CA.08.09.037	Ø42	33	G1/8	19 g
KIT.08.01.D50.3	CA.08.01.006	CA.08.09.003	Ø52	39	G1/4	18 g



Vacuum Cup with 1 bellow only - Saugnapf mit 1 kante
Ventosa con 1 soffiatto - Ventouse avec 1 soufflett
Ventosa de 1 fuelle

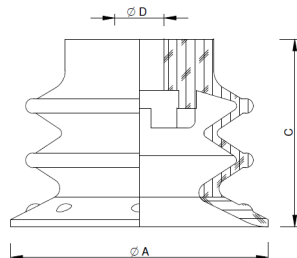
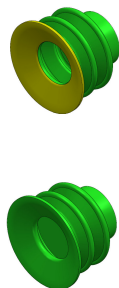
	A	C	D	F(N)	
CA.08.03.001	Ø6	8	Ø1.5	0.7	1 g
CA.08.03.002	Ø8	8	Ø3	1.0	1 g
CA.08.03.003	Ø10	11	Ø4	1.7	1 g
CA.08.03.004	Ø12	11	Ø4	2.4	1 g
CA.08.03.005	Ø15	12	Ø4	3.9	2 g
CA.08.03.006	Ø20	13	Ø4	7.25	2 g
CA.08.03.007	Ø25	16	Ø6	12.2	2 g
CA.08.03.008	Ø30	16	Ø6	16.7	3 g
CA.08.03.009	Ø35	17	Ø10	23.0	3 g
CA.08.03.010	Ø45	20	Ø10	39.0	5 g
CA.08.03.011	Ø60	22	Ø10	67.1	8 g



Vacuum Cup with 1 bellow (complete)
Vakuumsauger mit 1 kante (komplett)
Ventosa con 1 soffiatto (completa)
Ventouse avec 1 soufflett (complet)
Ventosa de 1 fuelle (completa)

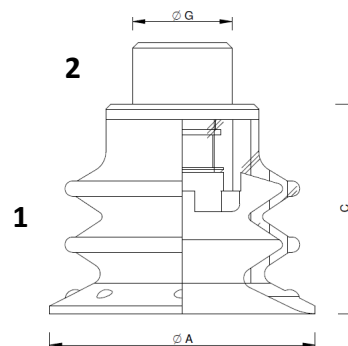
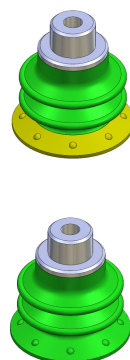
	1	2	A	C	G	
KIT.08.03.D06.5	CA.08.03.001	CA.08.09.005	Ø6	11.5	M5	3 g
KIT.08.03.D08.6	CA.08.03.002	CA.08.09.006	Ø8	10	M5	3 g
KIT.08.03.D10.4	CA.08.03.003	CA.08.09.004	Ø10	14.5	M5	3 g
KIT.08.03.D10.9	CA.08.03.003	CA.08.09.009	Ø10	15	G1/8	3 g
KIT.08.03.D12.4	CA.08.03.004	CA.08.09.004	Ø12	15.5	M5	3 g
KIT.08.03.D12.9	CA.08.03.004	CA.08.09.009	Ø12	16	G1/8	3 g
KIT.08.03.D15.4	CA.08.03.005	CA.08.09.004	Ø15	16.5	M5	3 g
KIT.08.03.D15.9	CA.08.03.005	CA.08.09.009	Ø15	17	G1/8	3 g
KIT.08.03.D20.4	CA.08.03.006	CA.08.09.004	Ø20	17.5	M5	2 g
KIT.08.03.D20.9	CA.08.03.006	CA.08.09.009	Ø20	18	G1/8	4 g
KIT.08.03.D25.10	CA.08.03.007	CA.08.09.010	Ø25	21	G1/8	6 g
KIT.08.03.D30.10	CA.08.03.008	CA.08.09.010	Ø30	21	G1/8	7 g
KIT.08.03.D35.11	CA.08.03.009	CA.08.09.011	Ø35	23	G1/8	7 g
KIT.08.03.D45.11	CA.08.03.010	CA.08.09.011	Ø45	26	G1/8	9 g
KIT.08.03.D60.11	CA.08.03.011	CA.08.09.011	Ø60	28	G1/8	12 g

POLYURETHANE SERIES



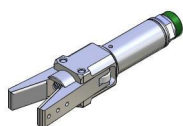
Vacuum Cup with 3 bellows only - Saugnapf mit 3 kanten
Ventosa con 3 soffiatti - Ventouse avec 3 soufflets
Ventosa de 3 fuelles

	Sh	A	C	D	Cod. PIAB	F(N)
CA.08.36.D10	30/60	Ø10	16.5	Ø3.8	0118329	3.7 1 g
CA.08.36.D10.60	60	Ø10	16.5	Ø3.8	0122966	3.7 1 g
CA.08.36.D15	30/60	Ø15	18.5	Ø3.8	0118505	4.5 1 g
CA.08.36.D15.60	60	Ø15	18.5	Ø3.8	0124237	6 1 g
CA.08.36.D20	30/60	Ø21	16.2	Ø5	0118507	6 1 g
CA.08.36.D20.60	60	Ø21	16.2	Ø5	0124249	9.5 1 g
CA.08.36.D25	30/60	Ø26	19	Ø5	0109006	18 3 g
CA.08.36.D25.60	60	Ø26	19	Ø5	0108240	18 3 g
CA.08.36.D35	30/60	Ø37	26.8	Ø6.5	0106292	28 8 g
CA.08.36.D35.60	60	Ø37	26.8	Ø6.5	0107477	30 8 g
CA.08.36.D52	30/60	Ø53	39	Ø12	0104529	75 24 g
CA.08.36.D52.60	60	Ø53	39	Ø12	0107381	80 24 g
CA.08.36.D75	30/60	Ø77	51.7	/	0107145	141 71 g
CA.08.36.D75.60	60	Ø77	51.7	/	0107150	166 71 g



Vacuum Cup with 3 bellows (complete)
Vakuumsauger mit 3 kanten (komplett)
Ventosa con 3 soffiatti (completa)
Ventouse avec 3 soufflets (complet)
Ventosa de 3 fuelles (completa)

	1	2	A	C	G	
KIT.08.36.D10	CA.08.36.D10	CA.08.09.030 3107030	11	21	M5 M	2 g
KIT.08.36.D10.60	CA.08.36.D10.60	CA.08.09.030 3107030	11	21	M5 M	2 g
KIT.08.36.D15	CA.08.36.D15	CA.08.09.030 3107030	16	23	M5 M	3 g
KIT.08.36.D15.60	CA.08.36.D15.60	CA.08.09.030 3107030	16	23	M5 M	3 g
KIT.08.36.D20	CA.08.36.D20	CA.08.09.031 0101152	21	20.2	G 1/8 M - M5 F	3 g
KIT.08.36.D20.60	CA.08.36.D20.60	CA.08.09.031 0101152	21	20.2	G 1/8 M - M5 F	3 g
KIT.08.36.D25	CA.08.36.D25	CA.08.09.032 3250004	26	25	G 1/8 M - M5 F	5 g
KIT.08.36.D25.60	CA.08.36.D25.60	CA.08.09.032 3250004	26	25	G 1/8 M - M5 F	65 g
KIT.08.36.D35.1	CA.08.36.D35	CA.08.09.033 0200714	37	32.8	G 1/8 M	10 g
KIT.08.36.D35.2		CA.08.09.034 3250091			G 1/4 M	13 g
KIT.08.36.D35.60	CA.08.36.D35.60	CA.08.09.034 3250091	37	32.8	G 1/4 M	13 g
KIT.08.36.D52	CA.08.36.D52	CA.08.09.035 3250092	53	45	G 1/4 M	35 g
KIT.08.36.D52.60	CA.08.36.D52.60	CA.08.09.035 3250092	53	45	G 1/4 M	35 g
KIT.08.36.D75	CA.08.36.D75	CA.08.09.036 0201077	77	60.4	G 1/4 M	90 g
KIT.08.36.D75.60	CA.08.36.D75.60	CA.08.09.036 0201077	77	60.4	G 1/4 M	90 g



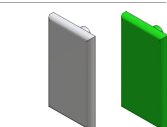
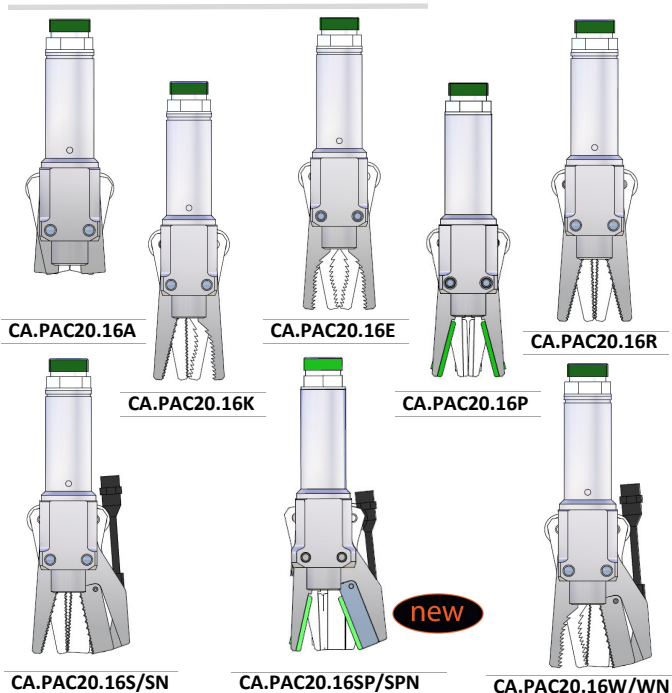
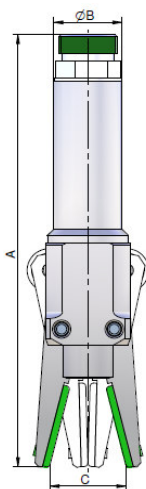
PAC

Magnetic

Selfcentering Sprue Grippers - Selbstzentrierende Anguss-Greifzangen
Pinza Materozza Autocentrante - Pincas Pneumatique Angulaire Auto-Centreuse - Pinza de Presión Autocentrante

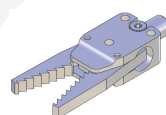
Sensor		
CA.PAC20.16A		135 g
CA.PAC20.16E		163 g
CA.PAC20.16K		163 g
CA.PAC20.16P		109 g
CA.PAC20.16R		163 g
CA.PAC20.16S	KT58PM8	PNP 160 g
CA.PAC20.16SN	KT58NM8	NPN 160 g
CA.PAC20.16SP	KT58PM8	PNP 170 g
CA.PAC20.16SPN	KT58NM8	NPN 170 g
CA.PAC20.16W	KT58PM8	PNP 170 g
CA.PAC20.16WN	KT58NM8	NPN 170 g

	A	B	C
CA.PAC20.16A	107	Ø 20	/
CA.PAC20.16E	130	Ø 20	21
CA.PAC20.16K	130	Ø 20	22
CA.PAC20.16P	130	Ø 20	22.8
CA.PAC20.16R	130	Ø 20	23
CA.PAC20.16S/SN	130	Ø 20	22.3
CA.PAC20.16SP/SPN	130	Ø 20	25
CA.PAC20.16W/WN	130	Ø 20	21.5



Insert - Einlage - Gommino per Pinza
Insert - Inserto para Pinza

PAC.20.16P.03	TPU	4 g
PAC.20.16P.03.V	VITON	4 g

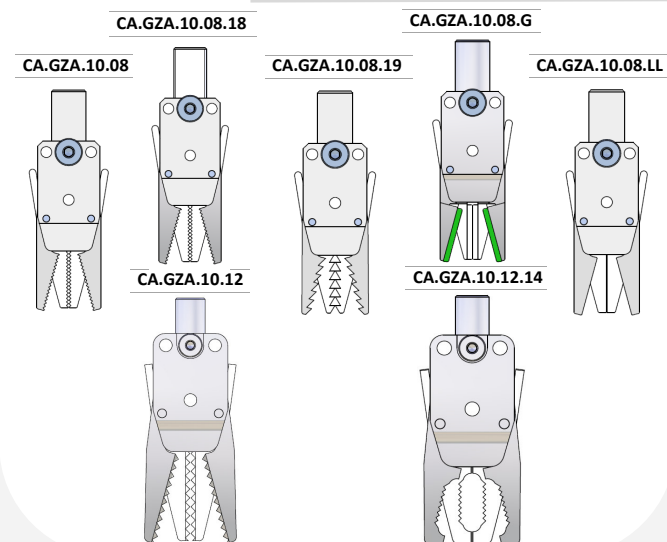
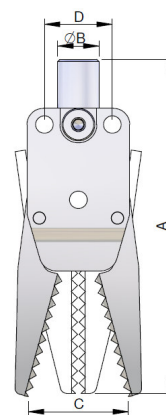


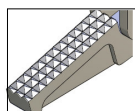
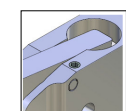
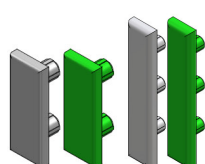
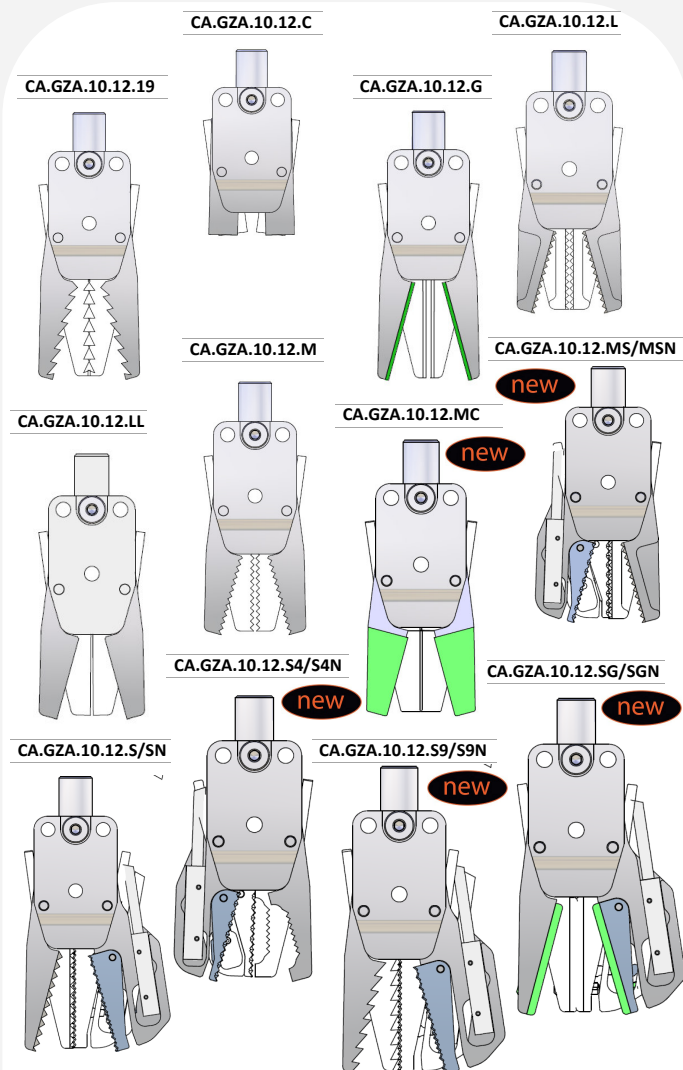
GZA.10

Sprue Grippers - Greifzange
Pinza Materozza - Pince de Préhension
Pinza de Presión

Sensor			Closing force (6bar)	
CA.GZA.10.08			19 N	16 g
CA.GZA.10.08.18			19 N	16 g
CA.GZA.10.08.19			19 N	16 g
CA.GZA.10.08.G			19 N	15 g
CA.GZA.10.08.LL			19 N	16 g
CA.GZA.10.12			30 N	40 g
CA.GZA.10.12.14			30 N	34 g
CA.GZA.10.12.19			30 N	37 g
CA.GZA.10.12.C			30 N	40 g
CA.GZA.10.12.G			30 N	34 g
CA.GZA.10.12.L			30 N	36 g
CA.GZA.10.12.LL			30 N	34 g
CA.GZA.10.12.M			30 N	35 g
CA.GZA.10.12.MC			30 N	44 g
CA.GZA.10.12.MS	MMD.IL5AP3AVF80	PNP	30 N	44 g
CA.GZA.10.12.MSN	MMD.IL5AN3AVF80	NPN	30 N	44 g
CA.GZA.10.12.S	MMD.IL5AP3AVF80	PNP	30 N	50 g
CA.GZA.10.12.SN	MMD.IL5AN3AVF80	NPN	30 N	50 g
CA.GZA.10.12.S4	MMD.IL5AP3AVF80	PNP	30 N	59 g
CA.GZA.10.12.S4N	MMD.IL5AN3AVF80	NPN	30 N	59 g
CA.GZA.10.12.S9	MMD.IL5AP3AVF80	PNP	30 N	65 g
CA.GZA.10.12.S9N	MMD.IL5AN3AVF80	NPN	30 N	65 g
CA.GZA.10.12.SG	MMD.IL5AP3AVF80	PNP	30 N	62 g
CA.GZA.10.12.SGN	MMD.IL5AN3AVF80	NPN	30 N	62 g

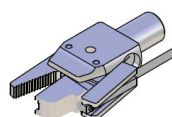
	A	B	C	D
CA.GZA.10.08	64	Ø 10	14	13
CA.GZA.10.08.18	64	G1/8	14	13
CA.GZA.10.08.19	64,3	Ø 10	16,5	13
CA.GZA.10.08.G	64,5	Ø 10	14	13
CA.GZA.10.08.LL	64,6	Ø 10	14,1	13
CA.GZA.10.12	83	Ø 10	23,8	16,5
CA.GZA.10.12.14	76,5	Ø 10	18	16,5
CA.GZA.10.12.19	82	Ø 10	21,3	16,5
CA.GZA.10.12.C	59,5	Ø 10	/	16,5
CA.GZA.10.12.G	83	Ø 10	21,7	16,5
CA.GZA.10.12.L	76,5	Ø 10	20	16,5
CA.GZA.10.12.LL	76,4	Ø 10	15,4	16,5
CA.GZA.10.12.M	76,5	Ø 10	19,8	16,5
CA.GZA.10.12.MC	76,5	Ø 10	19,8	16,5
CA.GZA.10.12.MS/MSN	76,4	Ø 10	19,8	16,5
CA.GZA.10.12.S/SN	83	Ø 10	19,5	16,5
CA.GZA.10.12.S4/S4N	76,2	Ø 10	21,7	16,5
CA.GZA.10.12.S9/S9N	83	Ø 10	24,5	16,5
CA.GZA.10.12.SG/SGN	82,7	Ø 10	23,3	16,5



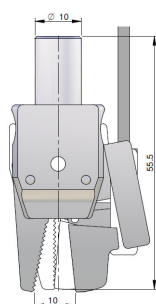


Insert - Einlage - Gommino per Pinza
 Insert - Inserto para Pinza

GZA.10.08.6	TPU	2 g
GZA.10.08.6.V	VITON	2 g
GZA.10.12.6	TPU	4 g
GZA.10.12.6.V	VITON	4 g

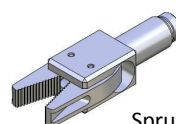


GRZ.10



Sprue Grippers - Greifzange
 Pinza Materozza - Pince de Préhension
 Pinza de Presión

	SENSOR	Closing force (6bar)
CA.GRZ.10.08.S	KT58PM8 (PNP)	19 N 25 g
CA.GRZ.10.08.SN	KT58NM8 (NPN)	19 N 25 g

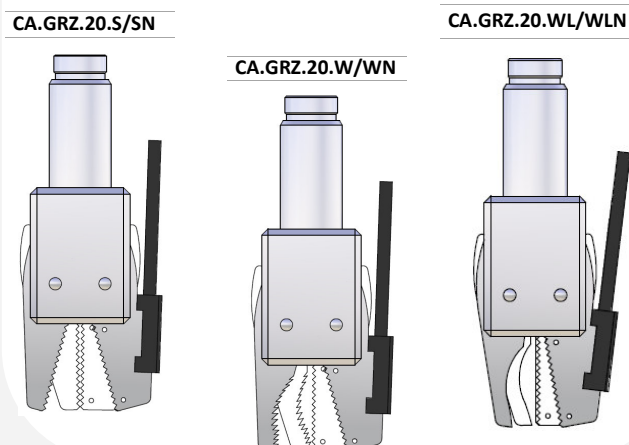
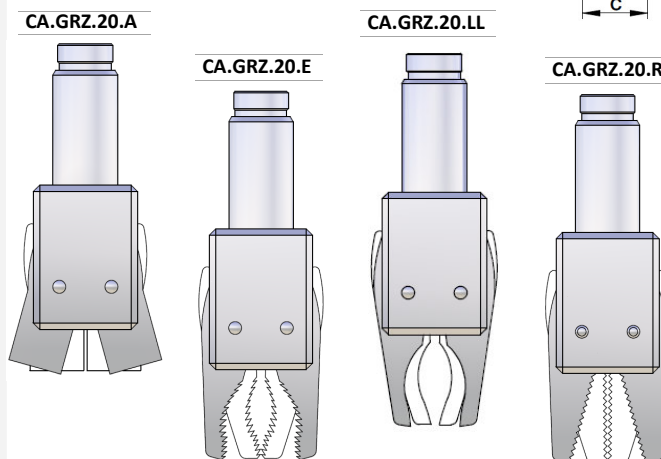
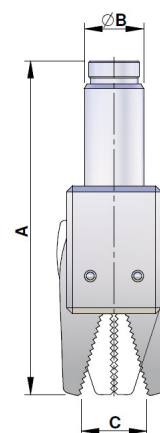


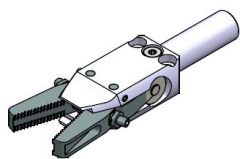
GRZ.20

Sprue Grippers - Greifzange - Pinza Materozza
 Pince de Préhension - Pinza de Presión

	Sensor	Closing force (6bar)
CA.GRZ.20.A		90 N 125 g
CA.GRZ.20.E		90 N 120 g
CA.GRZ.20.LL		90 N 130 g
CA.GRZ.20.R		90 N 120 g
CA.GRZ.20.S	GRZ.20.SC.PNP	90 N 130 g
CA.GRZ.20.SN	GRZ.20.SC.NPN	90 N 130 g
CA.GRZ.20.W	GRZ.20.SC.PNP	90 N 130 g
CA.GRZ.20.WN	GRZ.20.SC.NPN	90 N 130 g
CA.GRZ.20.WL	GRZ.20.SC.PNP	90 N 130 g
CA.GRZ.20.WLN	GRZ.20.SC.NPN	90 N 130 g

	A	B	C
CA.GRZ.20.A	100	Ø 20	
CA.GRZ.20.E	115	Ø 20	22
CA.GRZ.20.LL	115	Ø 20	22
CA.GRZ.20.R	115	Ø 20	22
CA.GRZ.20.S/SN	115	Ø 20	22
CA.GRZ.20.W/WN	115	Ø 20	22
CA.GRZ.20.WL/WLN	115	Ø 20	22



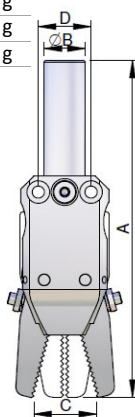


GTS.14

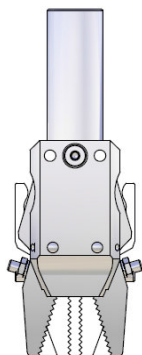
Sprue Grippers - Greifzange
Pinza Materozza - Pince de Préhension
Pinza de Presión

	Sensor	Closing force (6bar)	
CA.GTS.1003.1212		45 N	115 g
CA.GTS.1003.1214		45 N	110 g
CA.GTS.1003.1717		45 N	115 g
CA.GTS.1003.1919		45 N	112 g
CA.GTS.1003.2929		45 N	110 g
CA.GTS.1003.1215	GRZ.20.SC.PNP	45 N	120 g
CA.GTS.1003.125N	GRZ.20.SC.NPN	45 N	120 g
CA.GTS.1003.1415	GRZ.20.SC.PNP	45 N	116 g
CA.GTS.1003.145N	GRZ.20.SC.NPN	45 N	116 g

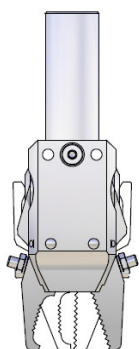
	A	B	C	D
CA.GTS.1003.1212	116,5	Ø 14	18	18
CA.GTS.1003.1214	116,5	Ø 14	19,2	18
CA.GTS.1003.1717	116,5	Ø 14	18,1	18
CA.GTS.1003.1919	116,5	Ø 14	18,8	18
CA.GTS.1003.2929	113	Ø 14	18	18
CA.GTS.1003.1215/125N	116,5	Ø 14	18	18
CA.GTS.1003.1415/145N	116,5	Ø 14	19,4	18



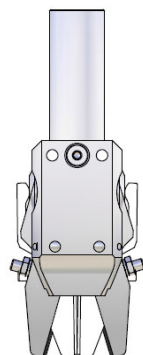
CA.GTS.1003.1212
CA.GTS.1004.1212



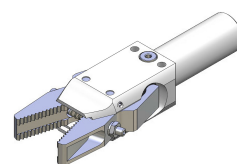
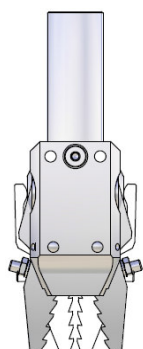
CA.GTS.1003.1214
CA.GTS.1004.1214



CA.GTS.1003.1717
CA.GTS.1004.1717



CA.GTS.1003.1919
CA.GTS.1004.1919

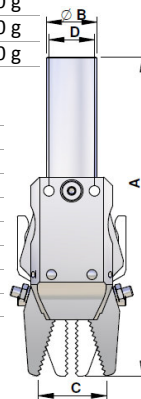


GTS.20

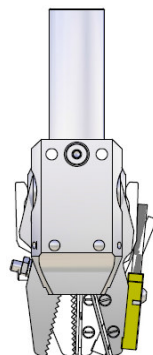
Sprue Grippers - Greifzange
Pinza Materozza - Pince de Préhension
Pinza de Presión

	Sensor	Closing force (6bar)	
CA.GTS.1004.1212		90 N	151 g
CA.GTS.1004.1214		90 N	144 g
CA.GTS.1004.1717		90 N	151 g
CA.GTS.1004.1919		90 N	146 g
CA.GTS.1004.2929		90 N	144 g
CA.GTS.1004.1215	GRZ.20.SC.PNP	90 N	160 g
CA.GTS.1004.125N	GRZ.20.SC.NPN	90 N	160 g
CA.GTS.1004.1415	GRZ.20.SC.PNP	90 N	120 g
CA.GTS.1004.145N	GRZ.20.SC.NPN	90 N	120 g

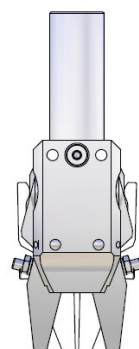
	A	B	C	D
CA.GTS.1004.1212	127,5	Ø 20	25	18
CA.GTS.1004.1214	127,5	Ø 20	25	18
CA.GTS.1004.1717	127,5	Ø 20	23	18
CA.GTS.1004.1919	127,5	Ø 20	24,8	18
CA.GTS.1004.2929	127,5	Ø 20	25,5	18
CA.GTS.1004.1215/125N	127,5	Ø 20	23	18
CA.GTS.1004.1415/145N	127,5	Ø 20	24	18



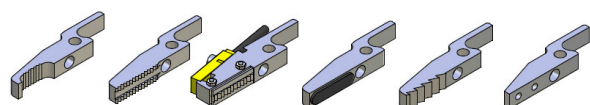
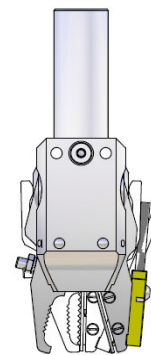
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CA.GTS.1004.1215/125N



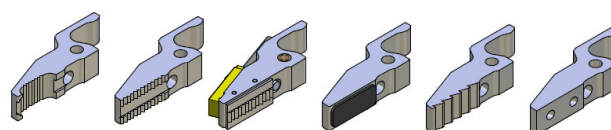
CA.GTS.1003.2929
CA.GTS.1004.2929



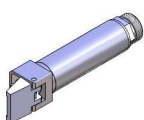
CA.GTS.1003.1415/145N
CA.GTS.1004.1415/145N



GTS.03.14	GTS.03.12	GTS.03.15/15.N	GTS.03.17	GTS.03.19	GTS.03.29
22 g	27 g	35 g	27 g	26 g	25 g



GTS.04.14	GTS.04.12	GTS.04.15/15.N	GTS.04.17	GTS.04.19	GTS.04.29
26 g	31 g	39 g	31 g	30 g	29 g

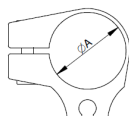


GRF Magnetic

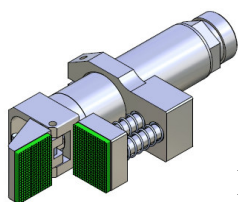
Gripper Finger - Greiffinger - Dito di Presa

Doigt de Préhension à Blocage Angulaire - Dedo Pinza

CA.GRF.1435	35°	26 N	25 g
CA.GRF.2035	35°	100 N	65 g
CA.GRF.3035	35°	430 N	206 g
CA.GRF.1495	95°	19 N	25 g
CA.GRF.2095	95°	70 N	60 g
CA.GRF.3095	95°	300 N	193 g
CA.GRF.1490	90°	19 N	25 g
CA.GRF.2090	90°	70 N	65 g
CA.GRF.3090	90°	300 N	185 g
CA.GRF.1495.G	95°	19 N	28 g
CA.GRF.2095.G	95°	70 N	75 g
CA.GRF.3095.G	95°	300 N	235 g
CA.GRF.1495.GW	95°	19 N	25 g
CA.GRF.2095.GW	95°	70 N	60 g
CA.GRF.3095.GW	95°	300 N	193 g
CA.GRF.2035.WE	35°	100 N	76 g
CA.GRF.3035.WE	35°	430 N	259 g

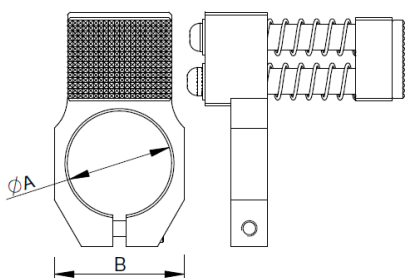
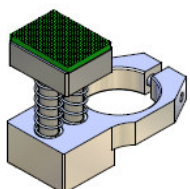


	A	M*	Sensor
CA.TIK.14007	14	CA.GRF.14..	KT38....
CA.TIK.20007	20	CA.GRF.20..	KT38....
CA.TIK.30007	30	CA.GRF.30..	KT38....

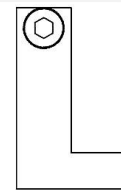
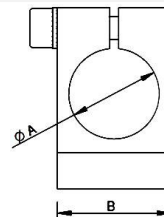
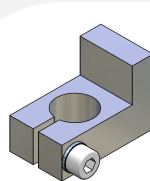


GRF.VSX

CA.GRF.1495.VSX	95°	19 N	35 g
CA.GRF.2095.VSX	95°	70 N	85 g
CA.GRF.3095.VSX	95°	300 N	280 g

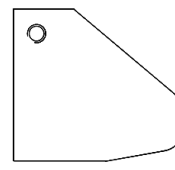
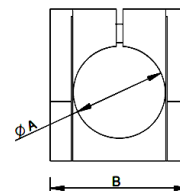
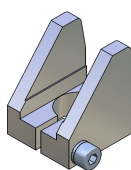


	A	B	M*
GRF14.VSX	Ø 14	20	CA.GRF.14.. 15 g
GRF20.VSX	Ø 20	25	CA.GRF.20.. 20 g
GRF30.VSX	Ø 30	37	CA.GRF.30.. 50 g



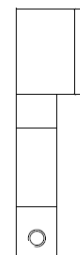
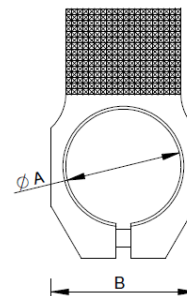
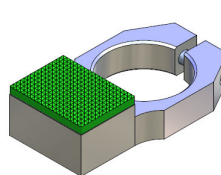
Stopper for Gripper - Anschlagstück - Riscontro Pinza
Butée Pince - Elemento Stop

	A	B	M*
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



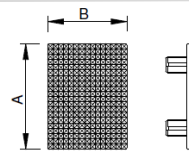
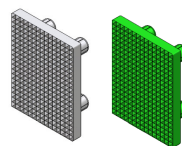
Gripper Guide - Zentrierstück - Guida Pinza
Guide Doigt de Préhension - Elemento de Centrado

	A	B	M*
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



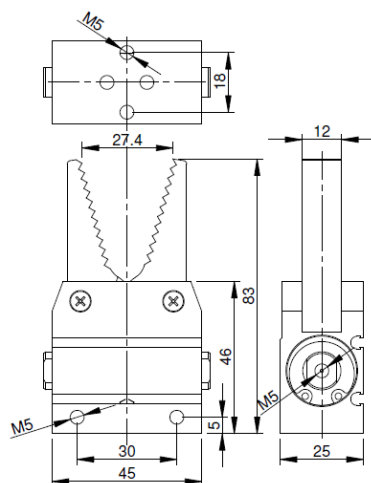
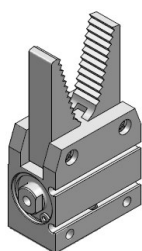
Stopper for Grippers VITON - Anschlagstück VITON
Butée Pince VITON - Gommino Collare per Pinza VITON
Elemento Stop Para Pinza VITON

	A	B	M*
GRF14.95.0708.V	Ø 14	20	CA.GRF.14.. 5 g
GRF20.95.0708.V	Ø 20	25	CA.GRF.20.. 14 g
GRF30.95.0708.V	Ø 30	37	CA.GRF.30.. 33 g



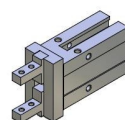
Insert TPU / VITON - Einlage TPU / VITON
Gommino per Pinza TPU / VITON - Insert TPU / VITON
Inserto para Pinza TPU / VITON

		A	B	M*
GRF14.95.08	TPU	14	10	CA.GRF.14.. 1 g
GRF20.95.08	TPU	20	15	CA.GRF.20.. 2 g
GRF30.95.08	TPU	30	20	CA.GRF.30.. 3 g
GRF14.95.08.V	VITON	14	10	CA.GRF.14.. 1 g
GRF20.95.08.V	VITON	20	15	CA.GRF.20.. 2 g
GRF30.95.08.V	VITON	30	20	CA.GRF.30.. 3 g



Selfcentering sprue gripper - Selbstzentrierende
Anguss Greifzange - Pinza Materozza - Pince de
Préhension - Pinza Prensosa

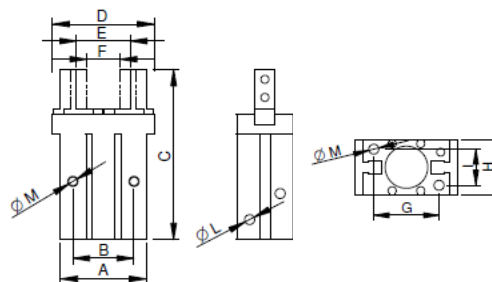
CA.GZA.AA24	Double effect	115 g
CA.GZA.AA24.NO	Normally open	115 g



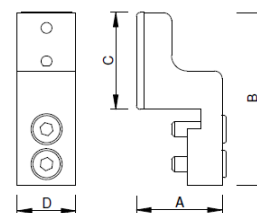
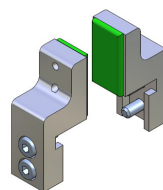
EASY GS

Parallel Gripper Easy - Parallelgreifer Easy
Pinza Paralela due Griffe Autocentranti Easy
Pince Pneumatique Parallèle double Effet Auto-Centreuse
Pinza Paralela (estándar) Easy

	Bore size	Stroke	Opening gripping force	Closing gripping force	
CA.09.05.009	10	4	22 N	34 N	55 g
CA.09.05.009.L	10	8	22 N	34 N	60 g
CA.09.05.010	16	6	68 N	90 N	135 g
CA.09.05.010.L	16	12	68 N	90 N	135 g
CA.09.05.011	20	10	84 N	132 N	235 g
CA.09.05.011.L	20	18	84 N	132 N	270 g
CA.09.05.012	25	14	130 N	208 N	430 g
CA.09.05.012.L	25	22	130 N	208 N	470 g
CA.09.05.013	32	22	316 N	386 N	715 g
CA.09.05.014	40	30	508 N	636 N	1275 g

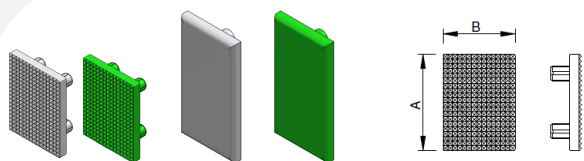


	A	B	C	D	E	F	G	H	I	L	M
CA.09.05.009	23	16	57	29	16,5	11	18	16,4	12	M3	M2,5
CA.09.05.009.L				35	20,3	11,2					
CA.09.05.010	30,6	24	67,3	38	22	14,5	22	23,6	15	M5	M4
CA.09.05.010.L			70	47	28	14,7					
CA.09.05.011	42	30	84,8	50	27,5	16,1	32	27,6	18	M5	M5
CA.09.05.011.L			90	62	35,5	16,3					
CA.09.05.012	52	36	102,7	63	34,5	19	40	33,6	22	M5	M6
CA.09.05.012.L			106	75	42,6	19,1					
CA.09.05.013	60	46	113	97	46,75	25,75	46	40	26	M5	M6
CA.09.05.014	72	56	139	119	61,35	29,75	56	48	32	M5	M8



Jaws for Parallel Gripper GS (complete)
Grundbacken für Parallelgreifer GS (komplett)
Dita per Pinza Paralela GS (complete)
Mâchoires pour Pince Parallèle
Garras para el Ajuste Modular GS (completas)

	Insert	A	B	C	D	M*
CA.KB.10	GRF14.95.08.V	15.5	27	14	10	CA.09.05.009/L 14 g
CA.KB.16	GRF20.95.08.V	18.5	35	20	15	CA.09.05.010/L 28 g
CA.KB.20	DD.20.16P.03.V	22	44.5	25	15	CA.09.05.011/L 41 g
CA.KB.25	DD.20.16P.03.V	29	55	25	20	CA.09.05.012/L 73 g

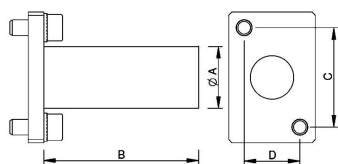
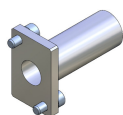


Insert TPU / VITON - Einlage TPU / VITON

Gommino per Pinza TPU / VITON - Insert TPU / VITON

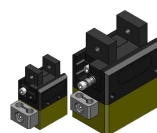
Inserto para Pinza TPU / VITON

		A	B	M*	
GRF14.95.08	TPU	14	10	CA.KB.10	1 g
GRF20.95.08	TPU	20	15	CA.KB.16	2 g
PAC.20.16P.03	TPU	30	20	CA.KB.20	3 g
GRF14.95.08.V	VITON	14	10	CA.KB.10	1 g
GRF20.95.08.V	VITON	20	15	CA.KB.16	2 g
PAC.20.16P.03.V	VITON	30	20	CA.KB.20	3 g
				CA.KB.25	

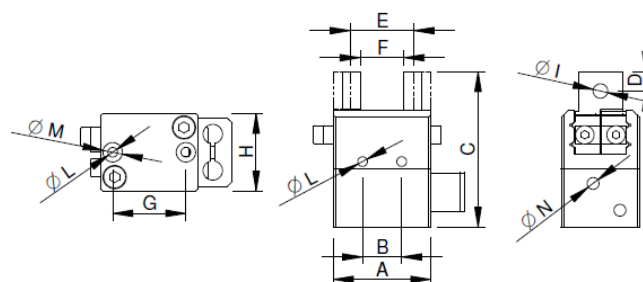


Adapter for Parallel Gripper Easy - Adapter für Parallelgreifer Easy
Staffa per Pinze Parallele Easy - Support pour Fixation Pince Easy
Estrubo para Pinza Paralela Easy

	A	B	C	D	M*	
CA.APGE.10.10.30	10	30	18	12	CA.09.05.009/L	11 g
CA.APGE.16.14.40	14	40	22	15	CA.09.05.010/L	21 g
CA.APGE.20.20.50	20	50	32	18	CA.09.05.011/L	38 g
CA.APGE.25.20.50	20	50	40	22	CA.09.05.012/L	55 g
CA.APGE.32.20.50	20	50	46	26	CA.09.05.013	102 g
CA.APGE.40.20.50	20	50	56	32	CA.09.05.014	140 g



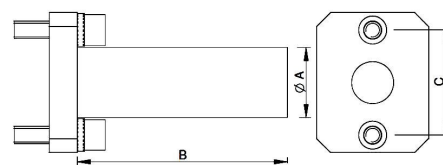
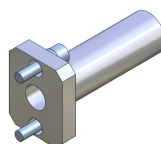
MPG



Parallel Gripper - Parallelgreifer - Pinza Paralela Compacta
Pinza Paralela - Pince Pneumatique Parallèle Auto-Centreuse

	A	B	C	D	E	F	G	H	I	L	M	N
CA.MPG.20	20	8	32	4	13	9	15	16	3	M2,5	4	M3
CA.MPG.25	26	10	34	4	17	11	20	18	3	M3	5	M3
CA.MPG.32	32	10	43	5	22	14	25	22	4	M4	6	M5
CA.MPG.40	40	10	51	6	28	16	32	26	4	M4	6	M5
CA.MPG.50	50	40	60	7	35	18	40	30	5	M5	8	M5
CA.MPG.64	64	52	70	8	44	24	52	35	6	M5	8	M5

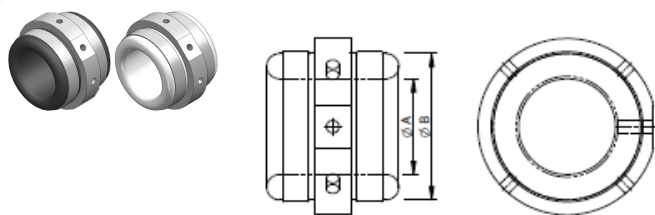
	Stroke	Opening total gripping force	Closing total gripping force	Sensor	
CA.MPG.20	4	24 N	28 N	CA.IN.40	40 g
CA.MPG.25	6	28 N	31 N	CA.IN.40	60 g
CA.MPG.32	8	55 N	65 N	CA.IN.40	120 g
CA.MPG.40	12	90 N	110 N	CA.IN.40	200 g
CA.MPG.50	16	155 N	175 N	CA.IN.40	350 g
CA.MPG.64	20	190 N	200 N	CA.IN.40	600 g



Adapter for Parallel Gripper MPG - Adapter für Parallelgreifer MPG
Staffa per Pinza Paralela MPG - Support pour Fixation Pince MPG
Estrubo para Pinza Paralela MPG

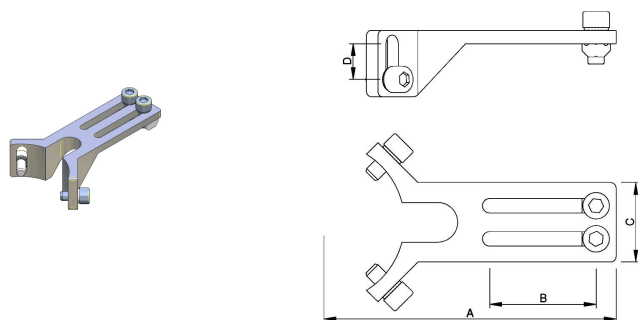
	A	B	C	M*	
CA.APG.20.10.30	10	30	15	CA.MPG.20	8 g
CA.APG.25.14.40	14	40	20	CA.MPG.25	16 g
CA.APG.32.14.40	14	40	25	CA.MPG.32	23 g
CA.APG.40.20.50	20	50	32	CA.MPG.40	30 g
CA.APG.50.20.50	20	50	40	CA.MPG.50	48 g
CA.APG.65.20.50	20	50	52	CA.MPG.64	63 g

Firestone



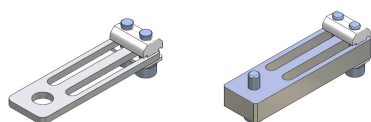
Airgripper - Pneumatische Außengreifer - Préhenseurs Extérieurs
Pinza ad Espansione per Esterni - Pinza de Expansión

	FIRESTONE	Working range	A	B	
CA.09.13.05.15	WP1-M58-5001	5-15 mm	19	33	60 g
CA.09.13.05.15.S	WP1-M58-5005				
CA.09.13.10.25	WP1-M58-5002	10-25 mm	27	48	145 g
CA.09.13.10.25.S	WP1-M58-5006				
CA.09.13.15.35	WP1-M58-5003	15-35 mm	37	58	210 g
CA.09.13.15.35.S	WP1-M58-5007				
CA.09.13.20.45	WP1-M58-5004	20-45 mm	48	69	285 g
CA.09.13.20.45.S	WP1-M58-5008				



Mounting Brackets - Klemmstücke - Staffa per Pinza
Bride pour le Montage de la Pinza sur Profile - Estribo para Pinza

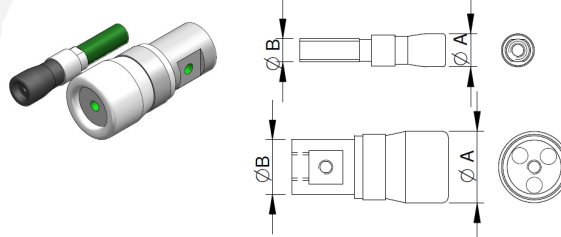
	M*	A	B	C	D
CA.09.17.0515.X	CA.09.13.05.15 CA.X../JU	100	40	25	15 31 g
CA.09.17.1025.X	CA.09.13.10.25 CA.X../JU	110	40	30	15 46 g
CA.09.17.1535.X	CA.09.13.15.35 CA.X../JU	115	40	40	15 57 g
CA.09.17.2045.X	CA.09.13.20.45 CA.X../JU	120	40	40	15 69 g



Air Hand Mounting Brackets
Befestigungsplatte
Staffa per Pinza
Bride de Fixage
Estribo para Pinza

	M*	M1	
CA.04.20.06.X	CA.09.14.06 CA.09.14.07	CA.L../CA.X..	34 g
CA.04.20.08.X	CA.09.14.09	CA.L../CA.X..	35 g
CA.09.18.1014.X	CA.09.14.10 CA.09.14.14	CA.L../CA.X..	41 g
CA.09.18.1719.X	CA.09.14.14 CA.09.14.17	CA.X../CA.JU..	50 g
CA.09.18.2225.X	CA.09.14.22 CA.09.14.25	CA.X../CA.JU..	52 g
CA.09.18.35.JU	CA.09.14.35	CA.X../CA.JU..	78 g
CA.09.18.4555.JU	CA.09.14.45 CA.09.14.55	CA.X../CA.JU..	102 g

Firestone

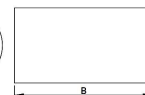


Airpicker - Pneumatische Innengreifer - Préhenseurs Intérieurs
Pinza ad Espansione per Interni - Pinza de Expansión

	FIRESTONE	Working range	A	B	
CA.09.14.06	WP1-M58-0001	N	8.5-10 mm	8	M6 8 g
CA.09.14.07	WP1-M58-0002	N	10-12 mm	9.5	M6 12 g
CA.09.14.09	WP1-M58-0003	N	12-17 mm	11	M8X1.25 17 g
CA.09.14.10	WP1-M58-0004	N	16-21 mm	14	Ø10 28 g
CA.09.14.14	WP1-M58-0005	N	21-27 mm	19	Ø14 60 g
CA.09.14.14.S	WP1-M58-0024	S			
CA.09.14.17	WP1-M58-0006	N	24-32 mm	22	Ø17 85 g
CA.09.14.17.S	WP1-M58-0025	S			
CA.09.14.19	WP1-M58-0007	N	28-36 mm	25	Ø19 105 g
CA.09.14.19.S	WP1-M58-0018	S			
CA.09.14.22	WP1-M58-0008	N	30-44 mm	27	Ø22 160 g
CA.09.14.22.S	WP1-M58-0026	S			
CA.09.14.25	WP1-M58-0009	N	32-52 mm	29	Ø25 245 g
CA.09.14.25.S	WP1-M58-0019	S			
CA.09.14.35	WP1-M58-0011	N	45-65 mm	41	Ø34 180 g
CA.09.14.35.S	WP1-M58-0028	S			
CA.09.14.45	WP1-M58-0012	N	58-85 mm	51	Ø44 370 g
CA.09.14.55	WP1-M58-0013	N	70-105 mm	63	Ø54 610 g

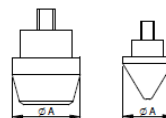
S = silicone

N = neoprene



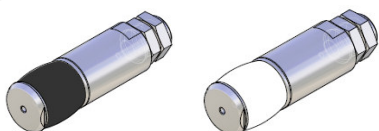
Protective Sleeve
Greiferschutz
Guaina Protettiva per Pinza
Manche de Protection
Funda Protectora para Pinza

	FIRESTONE	A	B	M*
CA.09.15.001	WP1-358-1500	18	38	CA.09.14.14 1 g
CA.09.15.002	WP1-358-1501	20	38	CA.09.14.17 1 g
CA.09.15.003	WP1-358-1502	23	38	CA.09.14.19 1 g
CA.09.15.004	WP1-358-1503	25	44	CA.09.14.22 1 g
CA.09.15.005	WP1-358-1504	27	54	CA.09.14.25 1 g
CA.09.15.006	WP1-358-1505	27	64	CA.09.14.35 1 g
CA.09.15.007	WP1-358-1506	37	73	CA.09.14.45 2 g
CA.09.15.008	WP1-358-1507	47	79	CA.09.14.55 2 g



Nose Cones
Führungskonus
Punta Conica per Pinza
Douille de Centrage
Perno de Centrado

	FIRESTONE	A	M*
CA.09.16.001	WP1-358-1006	14.7	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	CA.09.14.17 6 g
CA.09.16.004	WP1-358-1018	27.9	CA.09.14.19 6 g
CA.09.16.005	WP1-358-1019	28.7	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	CA.09.14.45 12 g
CA.09.16.009	WP1-358-1023	63.8	CA.09.14.55 14 g

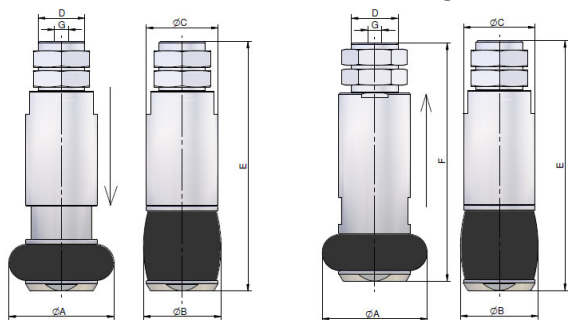

new

Expansion gripper - Innergreifer - Préhenseurs Intérieurs
 Pinza ad espansione - Pinza de Expansión

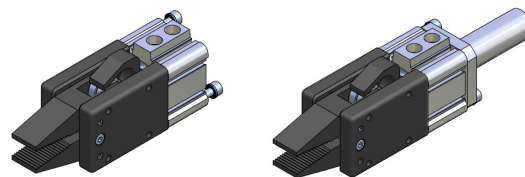
	Material	
FS.DHEB8EDEL/DSL	EPDM/SILICONE	15 g
FS.DHEB8EUEL/USL	EPDM/SILICONE	16 g
FS.DHEB10EDEL/DSL	EPDM/SILICONE	16 g
FS.DHEB10EUEL/USL	EPDM/SILICONE	17 g
FS.DHEB12EDEL/DSL	EPDM/SILICONE	17 g
FS.DHEB12EUEL/USL	EPDM/SILICONE	18 g
FS.DHEB14EDEL/DSL	EPDM/SILICONE	17 g
FS.DHEB14EUEL/USL	EPDM/SILICONE	20 g
FS.DHEB18EDEL/USL	EPDM/SILICONE	28 g
FS.DHEB18EUEL/USL	EPDM/SILICONE	35 g
FS.DHEB22EDEL/DSL	EPDM/SILICONE	43 g
FS.DHEB22EUEL/USL	EPDM/SILICONE	50 g
FS.DHEB27EDEL/DSL	EPDM/SILICONE	79 g
FS.DHEB27EUEL/USL	EPDM/SILICONE	100 g
FS.DHEB33EDEL/DSL	EPDM/SILICONE	118 g
FS.DHEB33EUEL/USL	EPDM/SILICONE	130 g
FS.DHEB41EDEL/DSL	EPDM/SILICONE	280 g
FS.DHEB41EUEL/USL	EPDM/SILICONE	300 g
FS.DHEB51EDEL/DSL	EPDM/SILICONE	490 g
FS.DHEB51EUEL/USL	EPDM/SILICONE	500 g
FS.DHEB63EDEL/DSL	EPDM/SILICONE	800 g
FS.DHEB63EUEL/USL	EPDM/SILICONE	785 g

D

U



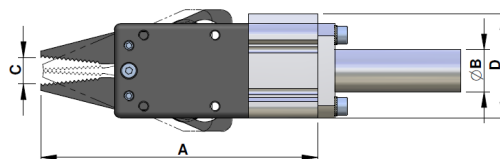
	A	B	C	D	E	F	G
FS.DHEB8EDEL/DSL	11	8	14	M10X1	52,7	/	M5
FS.DHEB8EUEL/USL	11	8	14	M10X1	57,5	53,5	M5
FS.DHEB10EDEL/DSL	14	10,5	14	M10X1	54,2	/	M5
FS.DHEB10EUEL/USL	14	10,5	14	M10X1	58,8	54	M5
FS.DHEB12EDEL/DSL	17	13	14	M12X1	55,5	/	M5
FS.DHEB12EUEL/USL	17	13	14	M10X1	60,5	55	M5
FS.DHEB14EDEL/DSL	19,5	15	14	M12X1	55,8	/	M5
FS.DHEB14EUEL/USL	19,5	15	14	M10X1	64	57	M5
FS.DHEB18EDEL/USL	25	19,5	18	M12X1	65	/	M5
FS.DHEB18EUEL/USL	25	19,5	18	M12X1	72,5	65	M5
FS.DHEB22EDEL/DSL	31,5	24	21,5	M14X1	75,5	/	M5
FS.DHEB22EUEL/USL	31,5	24	21,5	M14X1	82	72	M5
FS.DHEB27EDEL/DSL	37	28	25	M16X1	88	/	M5
FS.DHEB27EUEL/USL	37	28	25	M16X1	98	86	M5
FS.DHEB33EDEL/DSL	45	34	30	M22X1,5	109	/	G1/8
FS.DHEB33EUEL/USL	45	34	30	M22X1,5	116	101,5	G1/8
FS.DHEB41EDEL/DSL	54	42	40	M22X1,5	126,5	/	G1/8
FS.DHEB41EUEL/USL	54	42	40	M22X1,5	131	115,5	G1/8
FS.DHEB51EDEL/DSL	68	54	50	M26X1,5	159	/	G1/8
FS.DHEB51EUEL/USL	68	54	50	M26X1,5	160	142	G1/8
FS.DHEB63EDEL/DSL	85	66	60	M26X1,5	189	/	G1/8
FS.DHEB63EUEL/USL	85	66	60	M26X1,5	185	160	G1/8



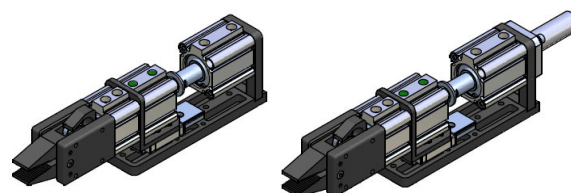
Gripper High Grip Force - Greifzange Extrem Große Schließkraft
 Pinza ad Alta Forza di Presa - Pince avec Grand Force de Préhension
 Pinza con Alta Fuerza de Agarre

Closing force (6bar)

CA.GZ.32		509 g
CA.GZ.3220	350 N	563 g
CA.GZ.3225		591 g



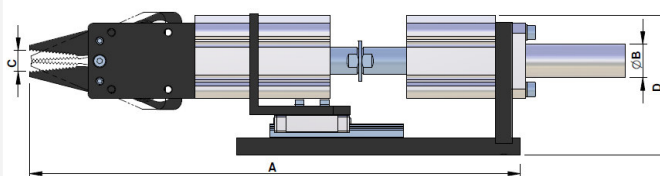
	A	B	C	D
CA.GZ.32	132	/	12,7	49,5
CA.GZ.3220	132	Ø20	12,7	49,5
CA.GZ.3225	132	Ø25	12,7	49,5



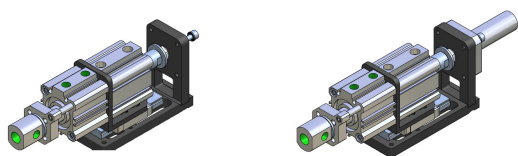
Gripper High Grip Force With Double Stroke
 Greifzange Extrem große Schließkraft auf Doppel Hub
 Slitta Doppia Corsa con Pinza
 Pince avec Grand Force de Préhension et Double Course
 Pinza con Alta Fuerza de Agarre y doble Carrera

Closing force (6bar)

CA.GZ.322010		1400 g
CA.GZ.32201020	350 N	1455 g
CA.GZ.32201025		1485 g

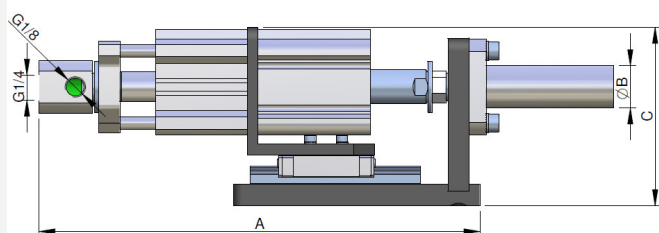


	A	B	C	D
CA.GZ.322010	294	/	12,7	85
CA.GZ.32201020	294	Ø20	12,7	85
CA.GZ.32201025	294	Ø25	12,7	85

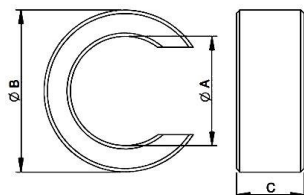


Movable Vacuum Unit BVAE32 with Double Stroke Guided
Bewegliche Vakuumeinheit BVAE32 mit Doppelhub Geführt
Slitta Doppia Corsa per Ventosa
Glissières à Double Course
Unidad de Doble Carrera para Ventosa

CA.BVAE.322010	988 g
CA.BVAE.32201020	1043 g
CA.BVAE.32201025	1073 g

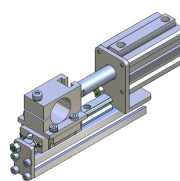


	A	B	C
CA.BVAE.322010	207,5	/	84
CA.BVAE.32201020	207,5	Ø20	84
CA.BVAE.32201025	207,5	Ø25	84



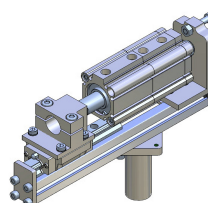
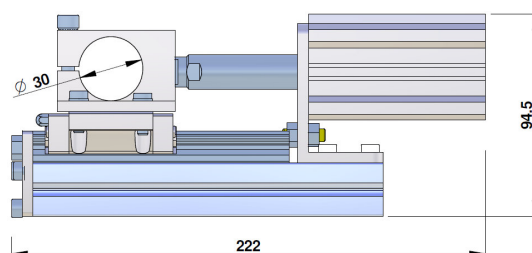
Stroke Reducer - Distanz-Buchse - Réducteur de Course
Anello di Riduzione Corsa - Casquillo Distanciador

	A	B	C	M*
CA.DB.05.25	12	20	5	Ø25 1 g
CA.DB.10.25	12	20	10	Ø25 2 g
CA.DB.15.25	12	20	15	Ø25 4 g
CA.DB.05.32	16	24	5	Ø32 1 g
CA.DB.10.32	16	24	10	Ø32 2 g
CA.DB.15.32	16	24	15	Ø32 3 g



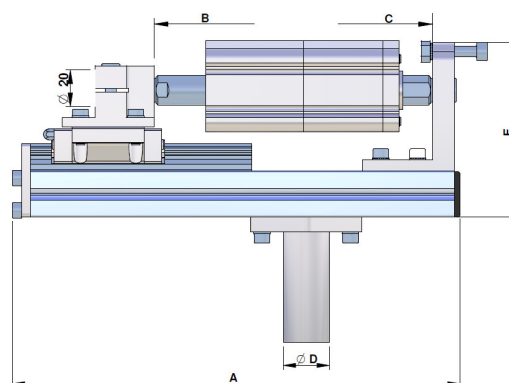
Linear Stroke Unit
Hubeinheit Linearführung
Slitta per pinza
Unité course linéaire
Unidad linear de carrera

CA.HEH.30.50	1052 g
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Double Stroke Unit
Doppelhubeinheit
Slitta universale con doppia corsa
Glissières à double course
Unidad de doble carrera

CA.UDHE.32102020	1375 g
CA.UDHE.32203020	1455 g



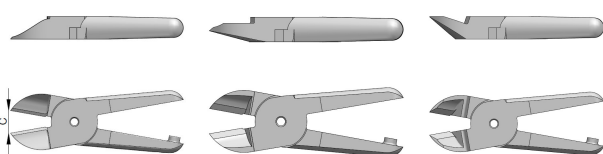
	A	B	C	D	E
CA.UDHE.32102020	243	20	10	Ø25	96
CA.UDHE.32203020	283	30	20	Ø25	96



MR

Air Nipper Actuators - Pneumatische Antriebe für Schneidzangen
Attuatore Pneumatico - Pincas Pneumatiques Rondes
Alicates de Corte Neumático

	D	Closing Force	
CA.MR.05M	Ø 30	11 Nm	100 g
CA.MR.10M	Ø 36	38 Nm	160 g
CA.MR.20M	Ø 45	67 Nm	270 g
CA.MR.30AM	Ø 56	150 Nm	470 g
CA.MR.50AM	Ø 75	232 Nm	1040 g



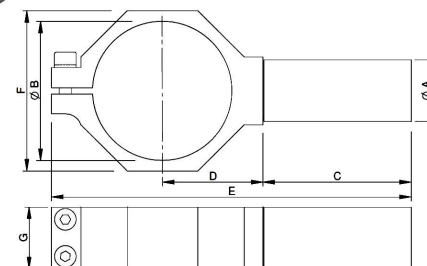
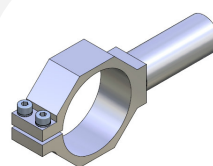
Inline

Standard - Plastic cutting

Deep angle

Blades - Schneideinsätze - Lama
Outils - Cuchilla

	M*	Style	C	
CA.F1S		Inline	2.5	33 g
CA.F1	CA.MR.05M	Platic cutting	3	34 g
CA.S2		Standard		
CA.FD1		Deep angle	2.5	35 g
CA.F3LS		Long Inline	8	117 g
CA.F3	CA.MR.10M	Platic cutting	5	115 g
CA.S4		Standard		
CA.FD3		deep angle	5	112 g
CA.F5S		Inline	9	121 g
CA.F5	CA.MR.20M	Platic cutting	9	120 g
CA.S5		Standard		
CA.FD5		Deep angle	10	124 g
CA.F5LS		Long inline	15	220 g
CA.F9PS		Inline	16	365 g
CA.F9P	CA.MR.30AM	Platic cutting	16	380 g
CA.S7P		Standard		
CA.FD9P		Deep angle	15	388 g
CA.S120	CA.MR.50AM	Standard	10	380 g

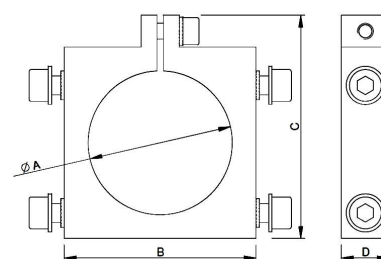
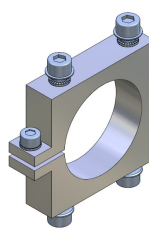


Mounting Bracket MR - Klemstück MR

Staffa per attuatore MR - Brides en aluminium MR

Soporte para alicates de corte MR (para elementos de apriete)

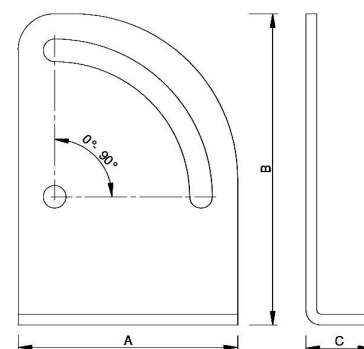
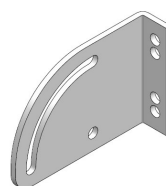
	A	B	C	D	E	F	G	M*	
CA.04.10.30	20	30	48	25	101.5	38	20	MR.05	91 g
CA.04.10.36	20	36	48	28	107.5	43	20	MR.10	95 g
CA.04.10.45	20	45	48	33	116	52	20	MR.20	102 g
CA.04.10.56	20	56	48	38	127.5	54	20	MR.30	117 g
CA.04.10.75	30	75	50	47	146	83	30	MR.50	275 g



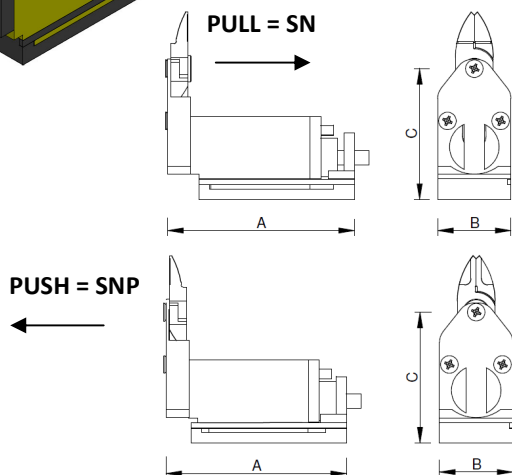
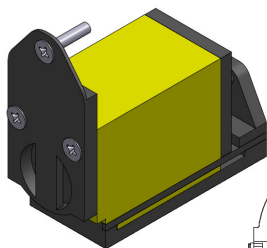
	A	B	C	D	M*	
CA.04.10.30.1	30	45	55	15	MR.05	87 g
CA.04.10.36.1	36	50	62	15	MR.10	97 g
CA.04.10.45.1	45	60	70	15	MR.20	115 g
CA.04.10.56.1	56	70	85	15	MR.30	136 g
CA.04.10.75.1	75	90	105	15	MR.50	188 g

Swivel Bracket MR - Schwenkbock MR - Morsetto per attuatore MR

Brides pour support MR - Soporte para alicates MR



	A	B	C	M*	
CA.04.10.30.2	50	75	18	MR.05	84 g
CA.04.10.36.2	55	80	18	MR.10	100 g
CA.04.10.45.2	60	85	18	MR.20	116 g
CA.04.10.56.2	65	90	18	MR.30	134 g
CA.04.10.75.2	85	122	28	MR.50	246 g

SN


		A	B	C	Cutting capacity	
CA.SN3	PULL	59	23	79.6	2 Ø mm	170 g
CA.SNP3	PUSH	59	23	74.6	2 Ø mm	170 g
CA.SN5	PULL	63	28	83.6	3 Ø mm	220 g
CA.SNP5	PUSH	63	28	78.6	3 Ø mm	220 g
CA.SN10	PULL	70	33	91.6	4 Ø mm	300 g
CA.SNP10	PUSH	70	33	86.6	4 Ø mm	300 g
CA.SN20	PULL	82	42	110	5 Ø mm	595 g
CA.SNP20	PUSH	82	42	105	5 Ø mm	595 g

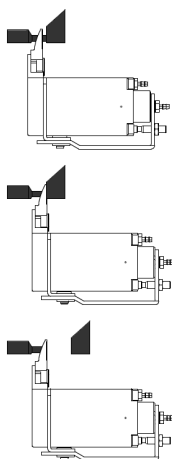
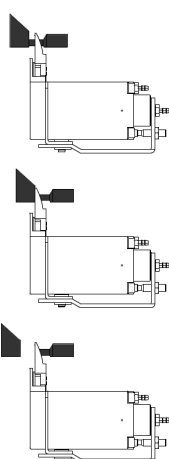
Slide Air Nippers Horizontal

Pneumatische Antriebe für Schneideinsätze

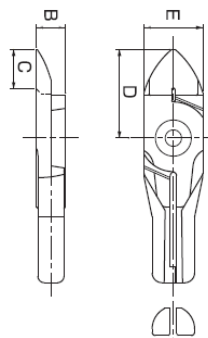
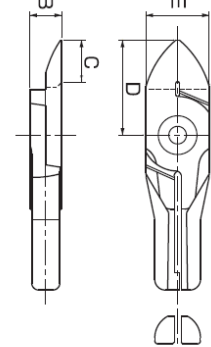
Base mobile orizzontale scorrimento arretrato

Pince coupe-carotte pneumatique

Alicates de corte estacionario con recorrido de cierre

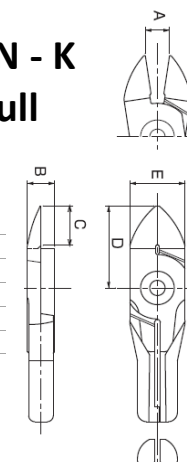
PULL TYPE

PUSH TYPE


Blades FN - Schneideinsätze FN - Lame FN
Outils FN - Cuchillas FN

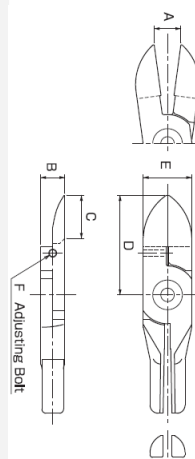
**FNP
Push**

**FN
Pull**


	M*	A	B	C	D	E
CA.FN10	CA.SN3	3.5	7	11	24	14
CA.FN1	CA.SN5	5.5	7	11	24	16
CA.FN3	CA.SN10	7	9	11	27	19
CA.FN5	CA.SN20	8.5	12	16	35	22

	M*	A	B	C	D	E
CA.FNP10	CA.SNP3	3.5	7	11	24	14
CA.FNP1	CA.SNP5	5.5	7	11	24	16
CA.FNP3	CA.SNP10	7	9	11	27	19
CA.FNP5	CA.SNP20	8.5	12	16	35	22

**FN - K
Pull**


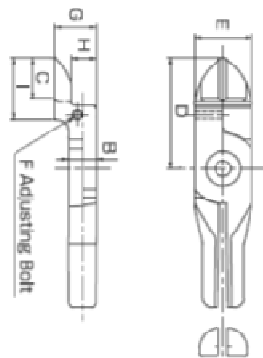
	M*	A	B	C	D	E
CA.FN10K	CA.SN3	3.5	7	11	24	14
CA.FN1K	CA.SN5	5.5	7	11	24	16
CA.FN3K	CA.SN10	7.5	9	11	27	19
CA.FN5K	CA.SN20	8.5	12	16	35	22

**FN - L
Pull**


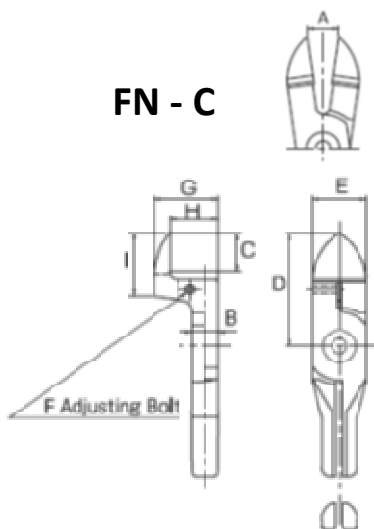
	M*	A	B	C	D	E	F
CA.FN10L	CA.SN3	5.5	7	16	33	14	M3
CA.FN1L	CA.SN5	8	7	16	33	16	M3
CA.FN3L	CA.SN10	9.5	9	16	37	18	M3
CA.FN5L	CA.SN20	10	12	21	45	22	M3

Blades FN - Schneideinsätze FN - Lame FN
Outils FN - Cuchillas FN

FNP - C Push



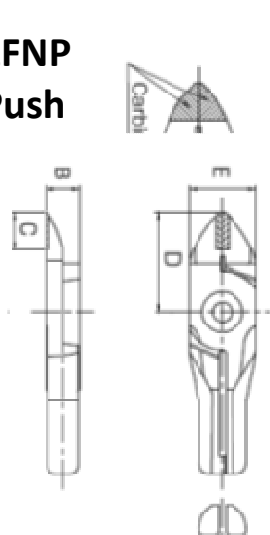
FN - C



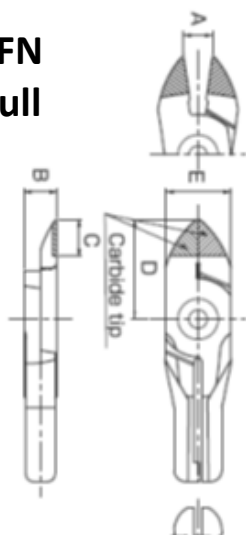
	M*	A	B	C	D	E	F	G	H	I
CA.FN10C	CA.SN3	5.2	7	11	35	14	M3	18	14	19
CA.FN1C	CA.SN5	9	7	13	38	16	M3	20	15	21
CA.FN3C	CA.SN10	10	9	13	38	18	M3	21.5	16.5	21
CA.FN5C	CA.SN20	10	12	19	46	22	M3	24	19	30

	M*	A	B	C	D	E	F	G	H	I
CA.FNP10C	CA.SNP3	5.2	7	11	35	14	M3	12	8	20
CA.FNP1C	CA.SNP5	8.6	7	14	37	16	M3	12.2	7.2	22
CA.FNP3C	CA.SNP10	9.8	9	13	35	18	M3	13.2	8.2	20
CA.FNP5C	CA.SNP20	10	12	18	42	22	M3	16	11	27

ZFNP Push



ZFN Pull

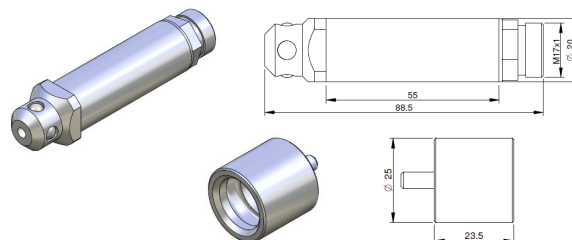


	M*	A	B	C	D	E
CA.ZFN10	CA.SN3	3.5	7	11	24	14
CA.ZFN1	CA.SN5	5.5	7	11	24	16
CA.ZFN3	CA.SN10	7	9	10	27	19
CA.ZFN5	CA.SN20	8.5	12	16	35	22

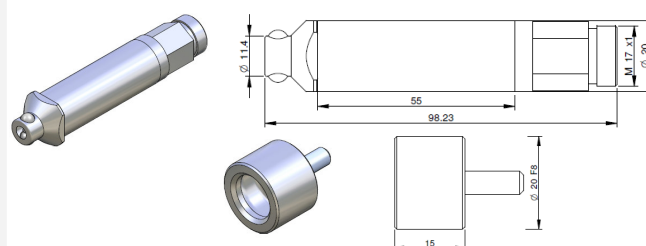
	M*	A	B	C	D	E
CA.ZFNP10	CA.SNP3	3.5	7	11	24	14
CA.ZFNP1	CA.SNP5	5.5	7	11	24	16
CA.ZFNP3	CA.SNP10	7	9	10	27	19
CA.ZFNP5	CA.SNP20	8.5	12	16	35	22

AGP

Centering locking unit
Kopplungsgreifer
Pinza per aggancio e centraggi
Doigt de centrage et de serrage
Pinza de bloqueo y centrado



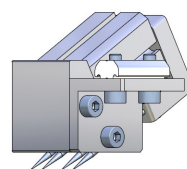
CA.AGP.20.G	Gripper side	93 g
CA.AGP.20.M	Mould side	60 g



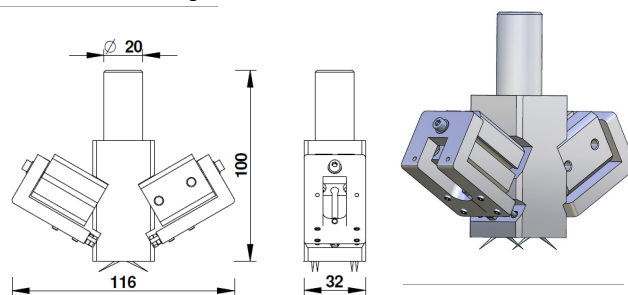
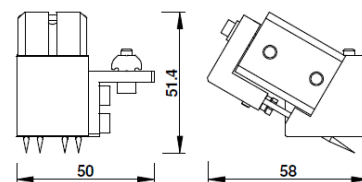
CA.AGP.20.G.20	Gripper side	66 g
CA.AGP.20.M.20	Mould side	30 g

PAA

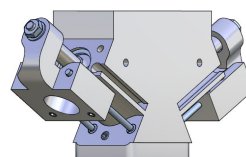
Needle gripper
Nadelgreifer
Pinza ad aghi
Pince à aiguilles
Pinza de agujas



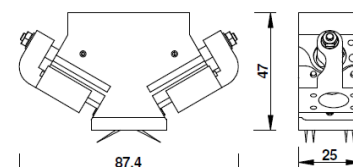
CA.PAA.AP	135 g
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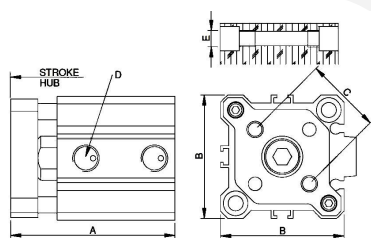
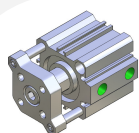


CA.PAA.CF	320 g
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CA.PAA.SP	132 g
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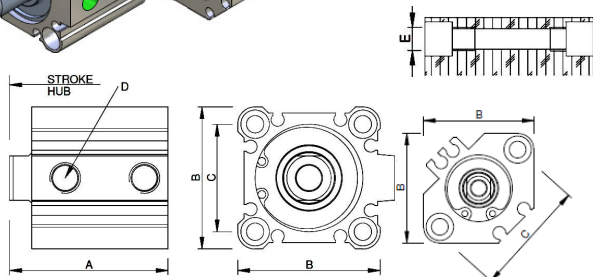
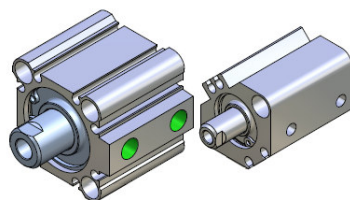




Compact Cylinder/Guide Rod Type
Kompaktzylinder mit Führungsstangen
Cilindro Antirotazionale - Vérin Pneumatique
Cilindro Compacto Antitorsión

	Ø	Stroke	A	B	C	D	E	
CA.11.17.001	12	10	41.5	25	10	M5	M4	59 g
CA.11.17.002		20	51.5					77 g
CA.11.17.003	16	10	41.5	29	14	M5	M4	77 g
CA.11.17.004		20	51.5					97 g
CA.11.17.005	20	10	50	36	17	M5	M6	138 g
CA.11.17.006		20	60					168 g
CA.11.17.007	25	10	53.5	40	22	M5	M6	186 g
CA.11.17.008		20	63.5					223 g
CA.11.17.009	32	10	60	45	28	G 1/8	M6	264 g
CA.11.17.010		20	70					309 g

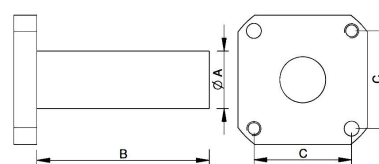
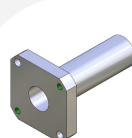
Sensor: PNP = KT58PM8 or KT58P3M



Compact Cylinder - Kompaktzylinder - Cilindro compatto
Vérin Pneumatique - Cilindro Compacto

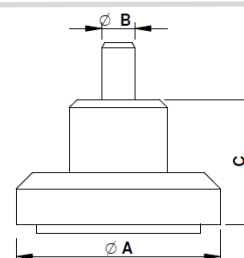
	Ø	Stroke	A	B	C	D	E	
CA.11.18.001	12	10	42	25	15.5	M5	M4	44 g
CA.11.18.002		20	51.5					69 g
CA.11.18.003	16	10	44	29	20	M5	M4	68 g
CA.11.18.004		20	54					89 g
CA.11.18.005	20	10	46	36	25.5	M5	M6	106 g
CA.11.18.006		20	56					138 g
CA.11.18.007	25	10	47.5	40	28	M5	M6	148 g
CA.11.18.008		20	57.5					186 g
CA.11.18.009	32	10	50	45	34	G 1/8	M6	231 g
CA.11.18.010		20	60					285 g

Sensor: PNP = KT58PM8 or KT58P3M



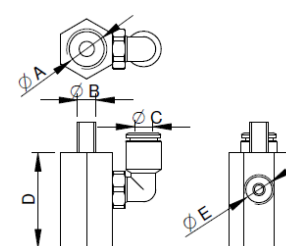
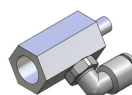
Adapter for Cylinder - Adapter für Kompaktzylinder
Staffa parallela per Cilindro - Bride pour Vérin Pneumatique
Montaje para el Cilindro compacto

	A	B	C	M*	
CA.ADZ.12.14	14	30	15.5	Ø12	19 g
CA.ADZ.16.14	14	30	19.9	Ø16	25 g
CA.ADZ.20.14	14	40	25.5	Ø20	32 g
CA.ADZ.25.20	20	60	28	Ø25	55 g
CA.ADZ.32.20	20	60	34	Ø32	55 g
CA.ADZ.32.20.90	20	90	34	Ø32	74 g
CA.ADZ.32.25	25	60	34	Ø32	85 g



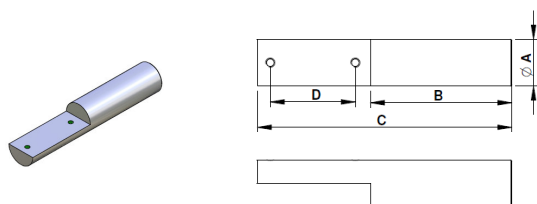
Cylinder Buffer - Druckplatte
Tampone per cilindro
Tampón pour vérin - Tampón para pistón pequeño

	A	B	C	M*	
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	14	KHZ/JDR	7 g
CA.11.04.007	40	G1/8	20	KHZ/JDR	40 g



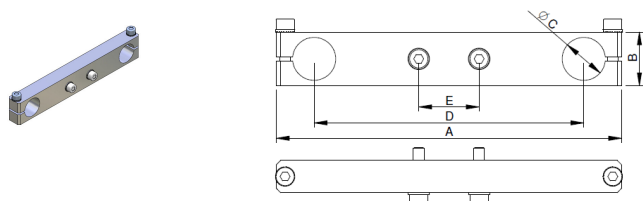
Adapter for vacuum cup - Adapter für Vakuumsauger
Collegamento cilindro per ventosa - Adaptateur pour ventouse
Adaptador para ventosa

	A	B	C	D	E	M*	
CA.11.15.001	G1/8	M4	4	24.5	M5	Ø16	13 g
CA.11.15.002	G1/8	M6	4	24.5	M5	Ø25	15 g
CA.11.15.003	G1/4	M6	6	31	G 1/8	Ø25	24 g
CA.11.15.004	G1/8	M5	4	34.5	M5	Ø20	21 g
CA.11.15.005	G1/4	M8	6	31	G 1/8	Ø32	22 g

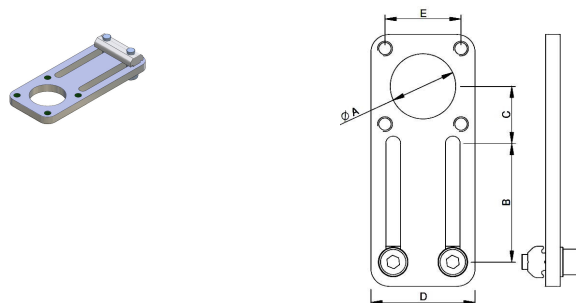


Adapter for Cylinder - Adapter für Kompaktzylinder
Staffa posteriore a L per cilindro - Adaptateur pour vérin
Adaptador para cilindro compacto

	A	B	C	D	M*	
CA.GAZ.12.10.60	10	60	98	21.9	Ø12	17 g
CA.GAZ.16.14.60	14	60	104	28.3	Ø16	27 g
CA.GAZ.20.20.60	20	60	125	36.1	Ø20	56 g
CA.GAZ.25.20.60	20	60	130	39.6	Ø25	59 g
CA.GAZ.32.20.60	20	60	140	48.1	Ø32	62 g

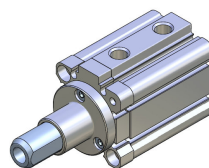


	A	B	C	D	E	M*	
CA.KBH.12.10.60	85	15	10	60	10	Ø12	33 g
CA.KBH.16.14.90	121	20	14	90	14	Ø16	56 g
CA.KBH.16.16.125	156	25	16	125	14	Ø16	88 g
CA.KBH.20.14.90	121	20	14	90	17	Ø20	58 g
CA.KBH.20.16.125	156	25	16	125	17	Ø20	90 g
CA.KBH.25.16.125	156	25	16	125	22	Ø25	94 g
CA.KBH.32.20.125	160	25	20	125	28	Ø32	156 g

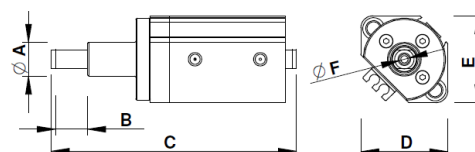


Bracket for Cylinder - Adapter für Kompaktzylinder
Staffa per cilindro - Bride pour vérin - Estribo para cilindro compacto

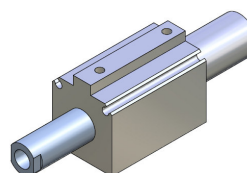
	A	B	C	D	E	M*	
CA.11.08.001.X	14	30	19.5	25	15.5	Ø12	35 g
CA.11.08.002.X	18	30	19.5	25	20	Ø16	35 g
CA.11.08.003.X	22	40	19.3	35	25.5	Ø20	49 g
CA.11.08.004.X	28	35	24	40	28	Ø25	52 g
CA.11.08.005.X	32	35	27.5	45	34	Ø32	60 g


KHZ

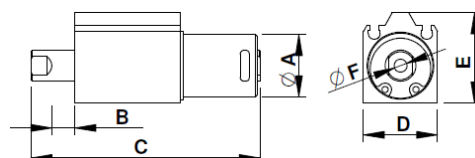
	A	B	C	D	E	F	
CA.KHZ.20141005	Ø14	10	101,5	36	36	M5	135 g
CA.KHZ.20143005	Ø14	30	141,5	36	36	M5	250 g
CA.KHZ.32201518	Ø20	15	119,5	45	49,5	G1/8	399 g
CA.KHZ.32203018	Ø20	30	149,5	45	49,5	G1/8	483 g
CA.KHZ.32205018	Ø20	50	189,5	45	49,5	G1/8	602 g

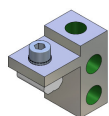


Compact cylinder for vacuum cup - Kurzhubzylinder für Saugnapf
Cilindro per ventosa - Vérin compact pour ventouse
Cilindro compacto para ventosa

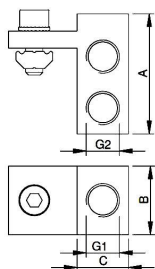

JDR

	A	B	C	D	E	F	
CA.JDR.141005	Ø14	10	74,2	24	29	M5	54 g
CA.JDR.142505	Ø14	25	119,2	24	29	M5	76 g
CA.JDR.201005	Ø20	10	74,2	24	29	M5	63 g
CA.JDR.301518	Ø20	15	87,2	34	39	G1/8	112 g
CA.JDR.303018	Ø20	30	130,2	34	39	G1/8	150 g
CA.JDR.305018	Ø20	50	190,2	34	39	G1/8	200 g

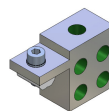




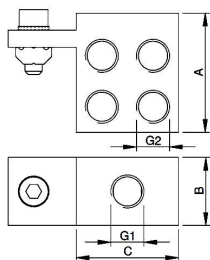
Air vacuum manifold 1-4 - Verteilerblock 1-4
Distributore aria 1-4 - Bloc distributeur latéral 1-4
Distribuidor de aire 1-4



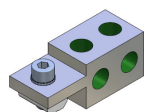
	A	B	C	G1	G2	M*	
CA.VTB.X.141818	35	20	15	G 1/8	G 1/8	X	35 g
CA.VTB.JU.141818	35	20	15	G 1/8	G 1/8	JU	37 g



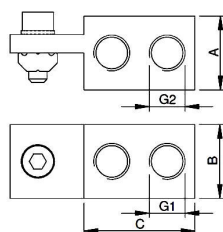
Air vacuum manifold 1-8 - Verteilerblock 1-8
Distributore aria 1-8
Bloc distributeur latéral 1-8 - Distribuidor de aire 1-8



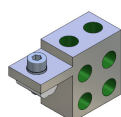
	A	B	C	G1	G2	M*	
CA.VTB.X.181818	35	20	30	G 1/8	G 1/8	X	55 g
CA.VTB.JU.181818	35	20	30	G 1/8	G 1/8	JU	58 g



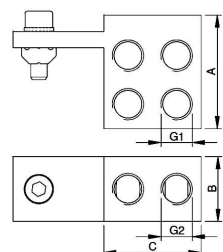
Air vacuum manifold 2-4 - Verteilerblock 2-4
Distributore aria 2-4 - Bloc distributeur latéral 2-4
Distribuidor de aire 2-4



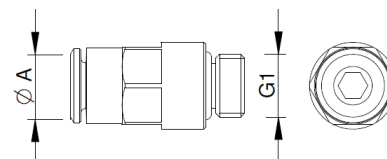
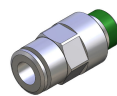
	A	B	C	G1	G2	M*	
CA.VTB.X.241818	20	20	30	G 1/8	G 1/8	X	39 g
CA.VTB.JU.241818	40	20	30	G 1/8	G 1/8	JU	41 g



Air vacuum manifold 2-8 - Verteilerblock 2-8
Distributore aria 2-8
Bloc distributeur latéral 2-8 - Distribuidor de aire 2-8

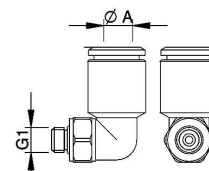
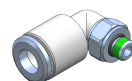


	A	B	C	G1	G2	M*	
CA.VTB.X.281818	35	20	30	G 1/8	G 1/8	X	54 g
CA.VTB.JU.281818	35	20	30	G 1/8	G 1/8	JU	57 g



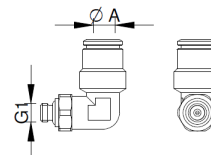
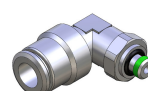
Straight male adapter (parallel) - Steckverschraubung
Raccordo diritto - Raccord droit mâle - Empalme vertical

	A	G1	
CA.12.05.015	Ø 4	M5	4 g
CA.12.05.016	Ø 6	M5	8 g
CA.12.05.017	Ø 6	G 1/8	10 g
CA.12.05.023	Ø 3	M3	1 g
CA.12.05.024	Ø 3	M5	1 g
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	G 1/4	17 g
CA.12.05.049	Ø 8	G 3/8	27 g

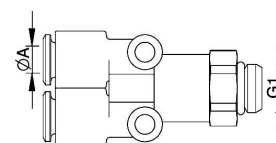
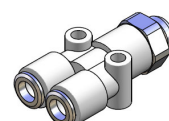


	A	G1	
CA.12.05.001	Ø 4	M5	4 g
CA.12.05.002	Ø 6	M5	5 g
CA.12.05.003	Ø 6	G 1/8	8 g
CA.12.05.038	Ø 6	G 1/4	11 g
CA.12.05.039	Ø 8	G 1/4	13 g
CA.12.05.040	Ø 4	G 1/8	7 g

Orienting elbow male adapter (parallel) - Steckverschraubung L-Form
Raccordo gomito - Équerre orientable mâle - Empalme en codo

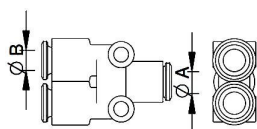
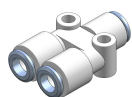


	A	G1	
CA.12.05.018	Ø 4	M5	12 g
CA.12.05.019	Ø 6	G 1/8	19 g
CA.12.05.020	Ø 6	M5	14 g
CA.12.05.021	Ø 3	M3	5 g
CA.12.05.022	Ø 3	M5	6 g



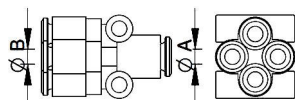
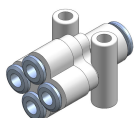
Y connector - Steckverschraubung Y - Raccordo a Y intermedio
Raccord en y simple - Racor en Y

	A	G1	
CA.12.05.050	Ø 4	G 1/8	13 g
CA.12.05.051	Ø 6	G 1/8	15 g

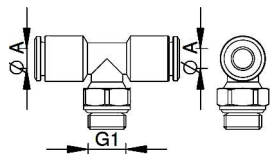
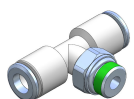


	A	B	
CA.12.05.004	Ø 4	2 x Ø 4	6 g
CA.12.05.005	Ø 6	2 x Ø 6	9 g
CA.12.05.006	Ø 6	2 x Ø 4	7 g
CA.12.05.007	Ø 8	2 x Ø 6	11 g
CA.12.05.034	Ø 3	2 x Ø 3	5 g

Y connector - Y-Anschluss - Raccordo Y - Raccord en Y - Empalme en Y

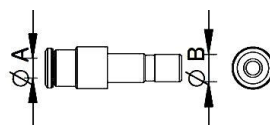
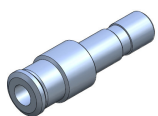


	A	B	
CA.12.05.008	Ø 6	4 x Ø 4	12 g
CA.12.05.009	Ø 8	4 x Ø 6	17 g



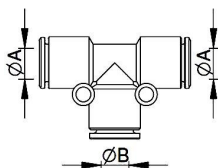
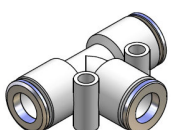
Orienting T male adapter (parallel) - centre leg
Steckverschraubung T - Raccordo T centrale girevole
T orientable à piquage mâle central - Empalme en T giratorio

	A	B	
CA.12.05.028	Ø 4	M5	7 g
CA.12.05.029	Ø 4	G 1/8	9 g
CA.12.05.030	Ø 6	G 1/8	11 g
CA.12.05.031	Ø 6	M5	9 g



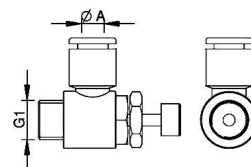
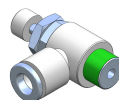
Reducer Junction - Reduzierung - Riduzione - Réduction - Reducción

	A	B	
CA.12.05.035	Ø 3	Ø 4	2 g
CA.12.05.042	Ø 4	Ø 6	9 g



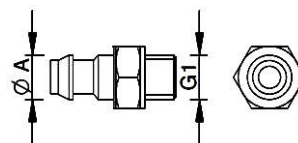
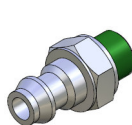
T connector - Steckkupplung T - Raccordo a T intermedio
Raccord T - Racor en T

	A	B	
CA.12.05.012	Ø 4	Ø 4	6g
CA.12.05.013	Ø 6	Ø 6	9g
CA.12.05.014	Ø 8	Ø 8	14g



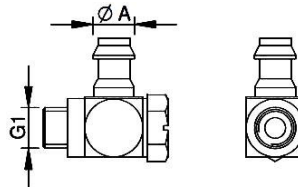
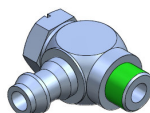
Speed Controller (centre leg) - Drosselrückschlagventile
Regolatore Flusso - Régulateur de Débit
Válvula de Retención con paso Calibrado

	A	G1	
CA.12.05.RF1806	Ø 6	G 1/8	17 g
CA.12.05.RF1804	Ø 4	G 1/8	17 g
CA.12.05.RFM504	Ø 4	M5	7 g
CA.12.05.RFM506	Ø 6	M5	7 g



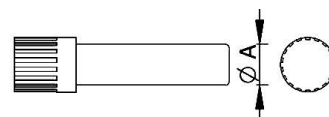
Straight fitting - Gerade Verschraubung zum Aufstecken
Raccordo a resca diritto metallico - Raccord droit à emboîtement
Empalme roscado vertical

	A	G1	
CA.12.05.M5AU3	Ø 3	M5	1 g
CA.12.05.M5AU4	Ø 4	M5	1 g
CA.12.05.M5AU6	Ø 6	M5	2 g



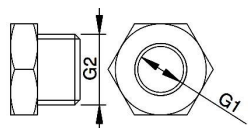
Adjustable-position elbow fitting
Schwenkbare L-förmige Verschraubung zum Aufstecken
Raccordo a resca metallico - Raccord orientable en L à emboîtement
Empalme roscado giratorio en L

	A	G1	
CA.12.05.M5ALHU3	Ø 3	M5	3 g
CA.12.05.M5ALHU4	Ø 4	M5	3 g
CA.12.05.M5ALHU6	Ø 6	M5	4 g



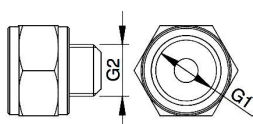
Plug polyamide - Verschlusszapfen Polyamid - Tappo Maschio
Bouchon en polyamide - Tapón Macho

	A	
CA.12.05.036	Ø 4	1 g
CA.12.05.037	Ø 6	1 g

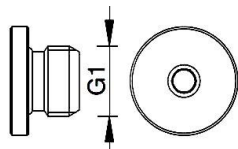
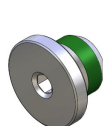


	G1	G2	
CA.08.14.001	M5	G 1/8	8 g
CA.08.14.002	M6	G 1/8	8 g
CA.08.14.003	G 1/8	G 1/4	11 g
CA.08.14.004	M6	G 1/4	13 g
CA.08.14.022	G 1/4	G 3/8	12g

Reducer (parallel) - Reduzierstück zylindrisch - Riduzione cilindrica
Réduction cylindrique - Reducción cilíndrica

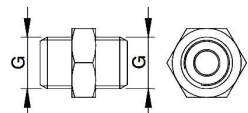
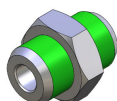


	G1	G2	
CA.08.14.018	G 1/8	M5	7 g
CA.08.14.019	G 1/4	G 1/8	14 g



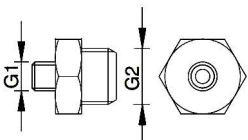
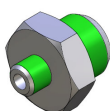
Male plug (parallel) - Gewindestopfen zylindrisch
Tappo testa cilindrica - Bouchon mâle cylindrique
Tapón roscado cilíndrico

	G1	
CA.08.14.013	M5	2 g
CA.08.14.014	G 1/8	9 g
CA.08.14.015	G 1/4	15 g



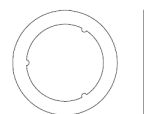
Nipple (parallel) - Doppelnippel zylindrisch - Nipplo cilindrico
Nipple double, cylindrique - Adaptador cilíndrico

	G	
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

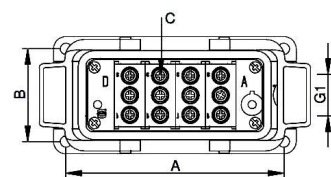
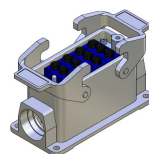


Nipple (parallel) - Doppelnippel reduziert zylindrisch
Nipplo cilindrico - Nipple double inégal, cylindrique
Adaptador de reducción cilíndrica

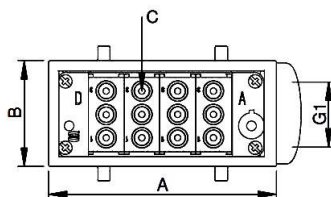
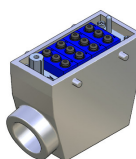
	G1	G2	
CA.08.14.011	M5	G 1/8	8 g
CA.08.14.012	G 1/8	G 1/4	15 g



	M*
CA.08.09.05	M5
CA.08.09.18	G 1/8
CA.08.09.14	G 1/4

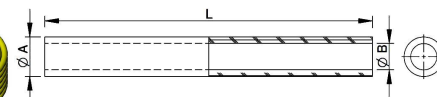


	A	B	G1	C	
CA.SCAR.12P00E	105	45	PG21	12x Ø 6	405 g



Mounting case - Anbaugehäuse - Connessione pneumatica Harting
Cas de l'œillet Hartig - Conexión neumática Harting

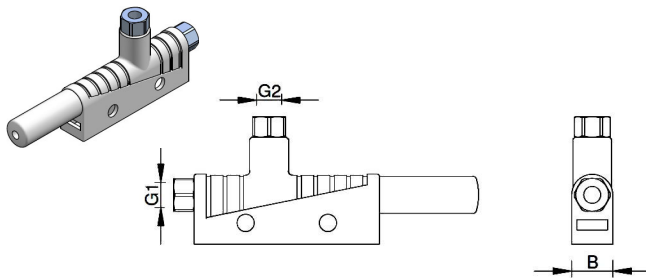
	A	B	G1	C	
CA.SCAG.12P00E	93	43	PG21	12x Ø 6	361 g



Hoses - Schläuche - Tubo Poliuretano - Tubes flexibles
Tubo flexible en poliuretano

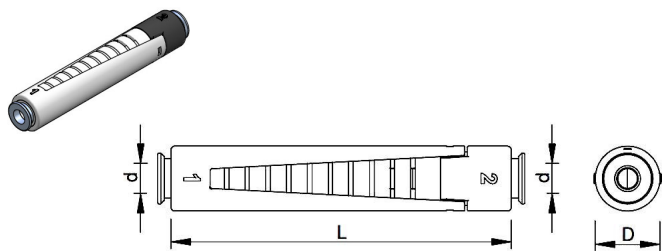
	Color	A	B	L
CA.15.01.011	Neutral	3	1.5	
CA.15.01.001	Blue	4	2.5	
CA.15.01.004	Yellow	4	2.5	
CA.15.01.007	Red	4	2.5	
CA.15.01.010	Neutral	4	2.5	
CA.15.01.002	Blue	6	4	
CA.15.01.003	Yellow	6	4	
CA.15.01.006	Red	6	4	
CA.15.01.009	Neutral	6	4	
CA.15.01.014	Green	6	4	
CA.15.01.015	Black	6	4	
CA.15.01.016	Gray	6	4	
CA.15.01.005	Yellow	8	5.5	
CA.15.01.008	Red	8	5.5	
CA.15.01.012	Neutral	8	5.5	

25 m



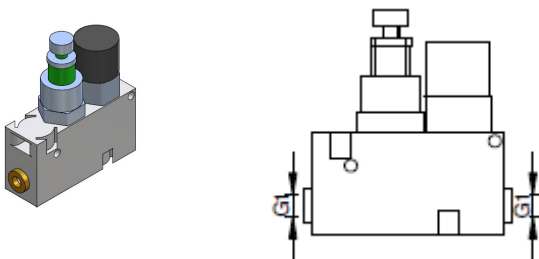
	G1	G2	B	Ø	
CA.SBP.10.G02	G 1/8	G 1/8	10	1	22 g
CA.SBP.15.G02	G 1/8	G 1/8	15	1.5	22 g
CA.SBP.20.G03	G 1/4	G 3/8	20	2.0	50 g

Basic ejector - Grundejektor - Eiettore base
Ejecteur de base - Ejector básico



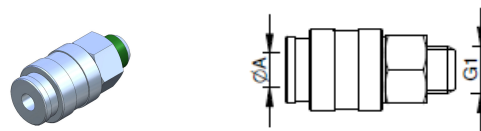
Inline ejector - Inlineejektor - Eiettore inline
Système Venturi en ligne - Ejector en línea

	d	D	L	Ø	
CA.SLP.05.SI	4	10	57	0.5	5 g
CA.SLP.07.SI	4	10	57	0.7	5 g



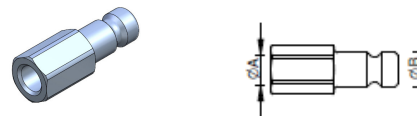
	G1	
CA.11.06.001	4	30 g

Pressure Regulator - Druckregler - Micro regolatore di pressione
Régulateur de pression - Regulador de presión



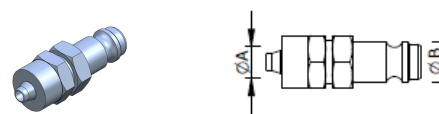
	A	G1	
CA.12.06.003	2.5	M5	8 g
CA.12.06.001	5.0	G 1/8	27 g
CA.12.06.007	7	G 1/4	70 g

Quick coupling socket - Schnellschlusskupplung
Innesto a scatto femmina - Racord rápido hembra

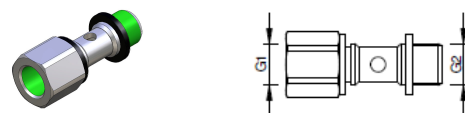


	A	G1	
CA.12.06.008	2.5	M5	3 g
CA.12.06.005	5.0	G 1/8	14 g
CA.12.06.006	7	G 1/4	23 g

Plug-In Nipple - Stecknippel für Schnellschlusskupplung
Innesto a scatto maschio - Racord rápido macho



	A	B	
CA.12.06.004	4	2.5	5 g
CA.12.06.002	6	5.0	18 g



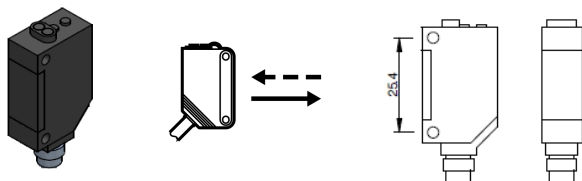
Pneumatic Hollow bolt - Pneumatik HohlSchraube
Asta per anello pneumatico - Inserto para anillo neumático

	G1	G2	
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



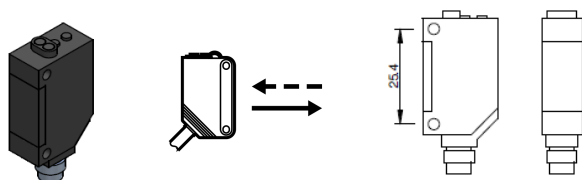
Pneumatic ring connection - Pneumatik Ringanschluss Einfach
Anello pneumatico - Anillo neumático

	G1	M*	
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



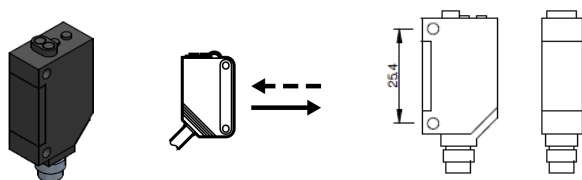
Diffuse reflective - Energetische reflexionslichttaster
Fotosens. tast. diretto fascio largo - Réflexion diffuse
Sensor fotoeléctrico tipo difuso reflectivo

	Output	Power supply voltage	Sensor	Sensing distance	Connector method
OM.E3Z-D86.OMS	PNP	12 to 24 VDC $\pm 10\%$	Diffuse reflective	5 to 100 mm (wide view)	Connector type M8 4pin
OM.E3Z-D66.OMS	NPN	12 to 24 VDC $\pm 10\%$	Diffuse reflective	5 to 100 mm (wide view)	Connector type M8 4pin



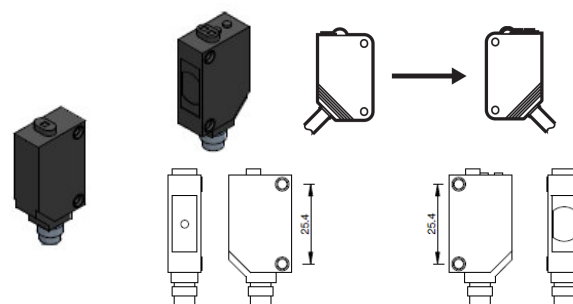
Laser Thin beam type (1 mm) reflective model
Laser Reflexionslichttaster mit engem Strahlkegel (1 mm)
Fotosens. tast. diretto fascio (1 mm)
Détection et positionnement précis
Sensor fotoeléctrico tipo thin beam (1 mm) modelo reflectivo

	Output	Power supply voltage	Sensor	Sensing distance	Connector method
OM.E3Z-LL86.OMS	PNP	12 to 24 VDC $\pm 10\%$	Laser Thin beam type reflective model	90 ± 30 mm	Connector type M8 4pin
OM.E3Z-LL66.OMS	NPN	12 to 24 VDC $\pm 10\%$	Laser Thin beam type reflective model	90 ± 30 mm	Connector type M8 4pin



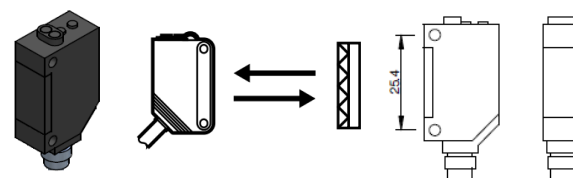
Distance-settable (Laser) - Hinter-/Vordergrundausbldung (Laser)
Fotosens. sopp. di sfondo regolabile - Distance réglable
Sensor fotoeléctrico tipo distance - settable

	Output	Power supply voltage	Sensor	Sensing distance	Connector method
OM.E3Z-LS86.OMS	PNP	12 to 24 VDC $\pm 10\%$	Distance-settable	30 to 200 mm	Connector type M8 4pin
OM.E3Z-LS66.OMS	NPN	12 to 24 VDC $\pm 10\%$	Distance-settable	30 to 200 mm	Connector type M8 4pin



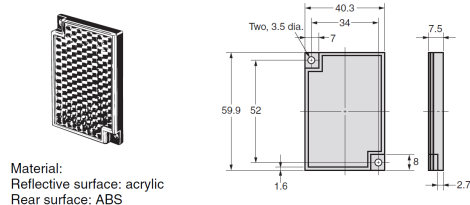
Through-beam laser 1 mm - Einweglichtschranke Laser 1 mm
Fotosens. spot 1 mm emett./ricev - Barrage
Sensor fotoeléctrico tipo through-beam

	Output	Power supply voltage	Sensor	Sensing distance	Connector method
OM.E3Z-LT86.OMS	PNP	12 to 24 VDC $\pm 10\%$	Through-beam	15 m	Connector type M8 4pin
OM.E3Z-LT66.OMS	NPN	12 to 24 VDC $\pm 10\%$	Through-beam	15 m	Connector type M8 4pin



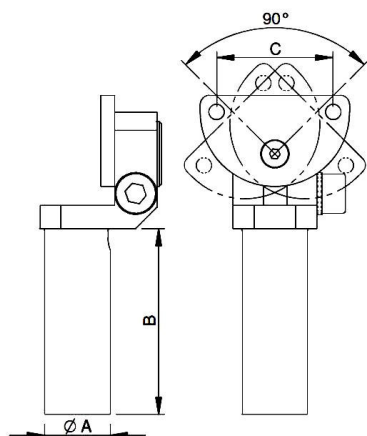
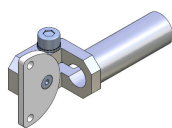
Retroreflective model - Reflexionslichtschranken
Fotosens. per catarinfrangente regol. fascio largo
Rétro réfléchissant - Sensor regulable para reflectores

	Output	Power supply voltage	Sensor	Sensing distance	Connector method
OM.E3Z-R86.OMS	PNP	12 to 24 VDC $\pm 10\%$	Retroreflective model	4 m	Connector type M8 4pin
OM.E3Z-R66.OMS	NPN	12 to 24 VDC $\pm 10\%$	Retroreflective model	4 m	Connector type M8 4pin



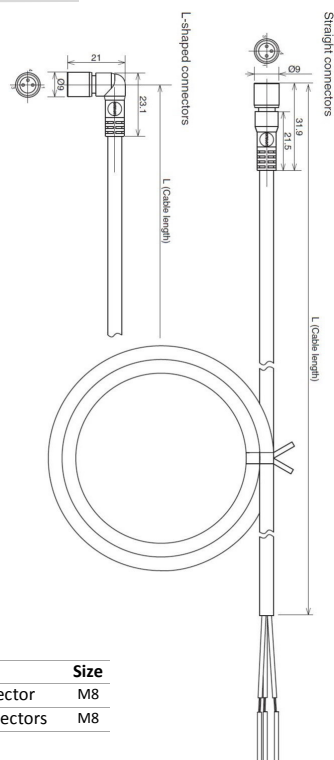
Reflector (order separately) - Rückstrahler
Catarifrangente per sensori - Réflecteur - Reflector para sensor

OM.E39-R1S



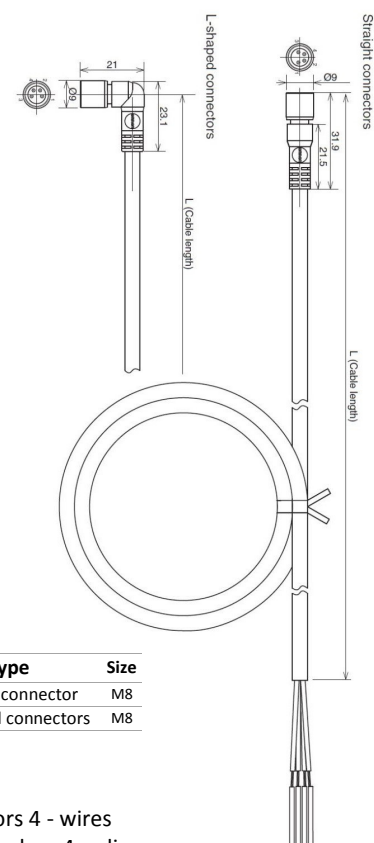
Adapter for Part Control - Adapter für Teilekontrolle
Staffa Snodata per Sensore - Bras de Prise
Estribo para Sensor

	A	B	C	
CA.ATK.10.10.30	10	30	25	23 g
CA.ATK.10.10.60	10	60	25	26 g
CA.ATK.10.10.90	10	90	25	29 g
CA.ATK.10.14.40	14	40	25	36 g
CA.ATK.10.14.80	14	80	25	44 g
CA.ATK.10.14.120	14	120	25	52 g



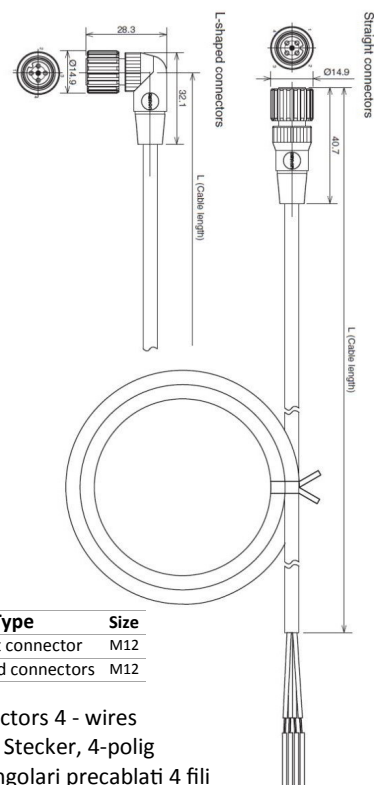
	Type	Size
OM.XS3F.M83S5M	Straight connector	M8
OM.XS3F.M83A5M	L - shaped connectors	M8

M8 Screw-on cable connectors 3 - wires
Kabeldose gerade mit M8 Stecker, 3-polig
Connettori femmina M8 assiali precablati 3 fili
Capteurs inductifs M8 3 wires
Juego de cables para conectores hembra M8 tipo PRO 3 pines



	Type	Size
OM.XS3F.M84S5M	Straight connector	M8
OM.XS3F.M84A5M	L - shaped connectors	M8

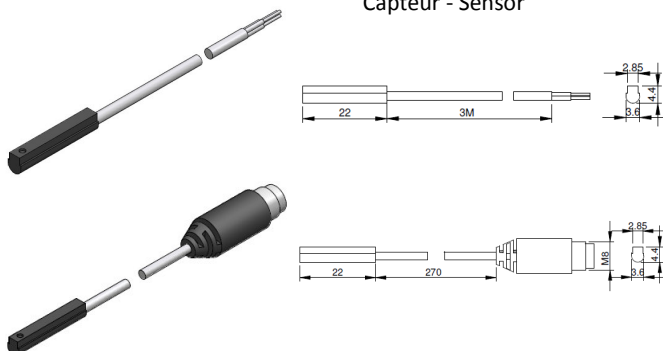
M8 Screw-on cable connectors 4 - wires
Kabeldose gerade mit M8 Stecker, 4-polig
Connettori femmina M8 assiali precablati 4 fili
Capteurs inductifs M8 4 wires
Juego de cables para conectores hembra M8 tipo PRO 4 pines



	Type	Size
OM.XS2F.M124S5M	Straight connector	M12
OM.XS2F.M124A5M	L - shaped connectors	M12

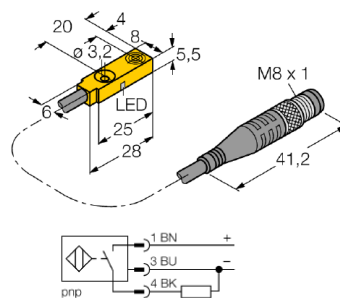
M12 Screw-on cable connectors 4 - wires
Kabeldose gerade mit M12 Stecker, 4-polig
Connettori femmina M12 angolari precablati 4 fili
Capteurs inductifs M12 4 wires
Juego de cables para conectores hembra M12 tipo PRO 4 pines

Sensor - Sensor - Sensore
Capteur - Sensor



Sensor with cable

KT58PM8	3 wires electronic PNP normally Open M8 plug connector	4 g
KT58P3M	3 wires electronic PNP normally Open mt 3 cable	4 g
KT58NM8	3 wires electronic NPN normally Open M8 plug connector	4 g
KT58N3M	3 wires electronic NPN normally Open mt 3 cable	4 g

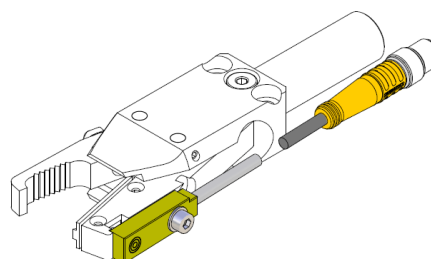


Sensor - Sensor - Sensore
Capteur - Sensor

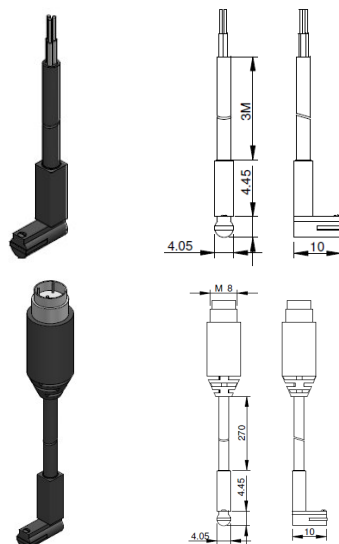


Sensor with cable

GRZ.20.SC.PNP	INDUCTIVE SENSOR PNP normally Open M8 plug connector	4g
GRZ.20.SC.NPN	INDUCTIVE SENSOR NPN normally Open M8 plug connector	4g



Sensor - Sensor - Sensore
Capteur - Sensor

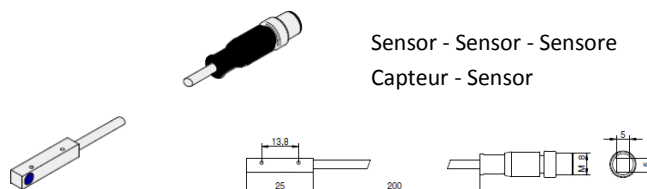


Sensor with cable

KT38PM8	3 wires electronic PNP normally Open M8 plug connector	4 g
KT38P3M	3 wires electronic PNP normally Open mt 3 cable	4 g
KT38NM8	3 wires electronic NPN normally Open M8 plug connector	4 g
KT38N3M	3 wires electronic NPN normally Open mt 3 cable	4 g

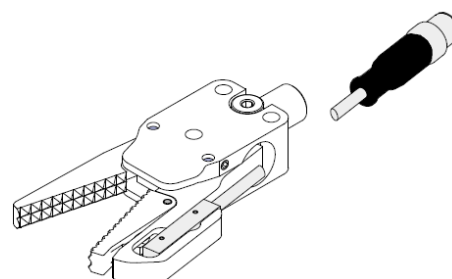
new

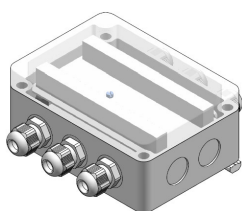
Sensor - Sensor - Sensore
Capteur - Sensor



Sensor with cable

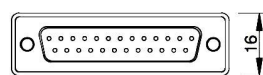
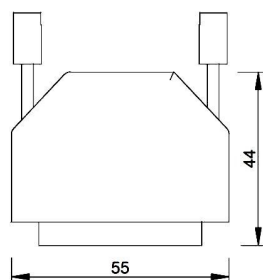
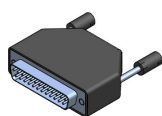
MMD.IL5AP3AVF80	INDUCTIVE SENSOR PNP normally Open M8 plug connector	4g
MMD.IL5AN3AVF80	INDUCTIVE SENSOR NPN normally Open M8 plug connector	4g



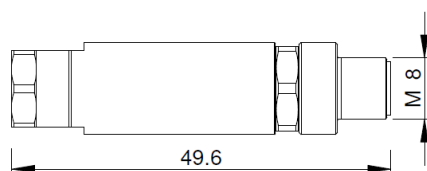


Sensor Box - Klemmkasten für Sensoren - Scatola Derivazione Sensori
 Boîte de Dérivation pour Capteurs - Caja de Conexiones Sensores

	Power supply	INputs	OUTputs
CA.SDS.04	24 V dc (+/- 10%)	Maximum 4 PNP, NPN or dry contact (NO or NC) sensor switched by jumper	1 up to 4 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers
CA.SDS.06	24 V dc (+/- 10%)	Maximum 6 PNP, NPN or dry contact (NO or NC) sensor switched by jumper	1 up to 6 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers
CA.SDS.08	24 V dc (+/- 10%)	Maximum 8 PNP, NPN or dry contact (NO or NC) sensor switched by jumper	1 up to 8 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers



CA.19.03.001	25 pin M	10g
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PAX.1501252	M8 3P M	15g
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CODE	P	CODE	P	CODE	P	CODE	P	CODE	P
CA.01.01.001	5	CA.08.14.001	44	CA.08.33.D12	25	CA.09.17.2045.X	34	CA.12.05.M5ALHU4	43
CA.01.01.002	5	CA.08.14.002	44	CA.08.33.D14	25	CA.09.18.1014.X	34	CA.12.05.M5ALHU6	43
CA.01.01.003	5	CA.08.14.003	44	CA.08.33.D20	25	CA.09.18.1719.X	34	CA.12.05.M5AU3	43
CA.01.01.004	5	CA.08.14.004	44	CA.08.33.D25	25	CA.09.18.2225.X	34	CA.12.05.M5AU4	43
CA.01.01.006	5	CA.08.14.005	44	CA.08.33.D32	25	CA.09.18.35.JU	34	CA.12.05.M5AU6	43
CA.01.01.007	5	CA.08.14.006	44	CA.08.33.D42	25	CA.09.18.4555.JU	34	CA.12.05.RF1804	43
CA.01.01.008	5	CA.08.14.011	44	CA.08.33.D5	25	CA.11.04.001	40	CA.12.05.RF1806	43
CA.01.01.009	5	CA.08.14.012	44	CA.08.33.D52	25	CA.11.04.002	40	CA.12.05.RFM504	43
CA.01.01.011	5	CA.08.14.013	44	CA.08.33.D60	25	CA.11.04.003	40	CA.12.05.RFM506	43
CA.01.01.012	5	CA.08.14.014	44	CA.08.33.D7	25	CA.11.04.004	40	CA.12.06.001	45
CA.01.01.013	5	CA.08.14.015	44	CA.08.33.D9	25	CA.11.04.005	40	CA.12.06.002	45
CA.01.01.014	5	CA.08.14.018	44	CA.08.36.D10	27	CA.11.04.006	40	CA.12.06.003	45
CA.01.01.015	5	CA.08.14.019	44	CA.08.36.D10.60	27	CA.11.04.007	40	CA.12.06.004	45
CA.01.01.016	5	CA.08.14.021	44	CA.08.36.D15	27	CA.11.06.001	45	CA.12.06.005	45
CA.01.08.003	45	CA.08.14.022	44	CA.08.36.D15.60	27	CA.11.08.001.X	41	CA.12.06.006	45
CA.01.08.004	45	CA.08.26.D16.A5	23	CA.08.36.D20	27	CA.11.08.002.X	41	CA.12.06.007	45
CA.01.08.005	45	CA.08.26.D20.A5	23	CA.08.36.D20.60	27	CA.11.08.003.X	41	CA.12.06.008	45
CA.01.08.006	45	CA.08.26.D25.A5	23	CA.08.36.D25	27	CA.11.08.004.X	41	CA.15.01.001	44
CA.01.08.007	45	CA.08.26.D33.A5	23	CA.08.36.D25.60	27	CA.11.08.005.X	41	CA.15.01.002	44
CA.01.08.008	45	CA.08.26.D43.A5	23	CA.08.36.D35	27	CA.11.15.001	40	CA.15.01.003	44
CA.04.02.10.X	12	CA.08.26.D53.A5	23	CA.08.36.D35.60	27	CA.11.15.002	40	CA.15.01.004	44
CA.04.02.14.X	12	CA.08.26.D63.A5	23	CA.08.36.D52	27	CA.11.15.003	40	CA.15.01.005	44
CA.04.02.20.X	12	CA.08.26.D78.A5	23	CA.08.36.D52.60	27	CA.11.15.004	40	CA.15.01.006	44
CA.04.02.30.X	12	CA.08.27.001	24	CA.08.36.D75	27	CA.11.15.005	40	CA.15.01.007	44
CA.04.10.30	37	CA.08.27.002	24	CA.08.36.D75.60	27	CA.11.17.001	40	CA.15.01.008	44
CA.04.10.30.1	37	CA.08.27.003	24	CA.09.03.MAXI	28	CA.11.17.002	40	CA.15.01.009	44
CA.04.10.30.2	37	CA.08.27.004	24	CA.09.03.MICRO	28	CA.11.17.003	40	CA.15.01.010	44
CA.04.10.36	37	CA.08.27.005	24	CA.09.03.MIDI	28	CA.11.17.004	40	CA.15.01.011	44
CA.04.10.36.1	37	CA.08.27.006	24	CA.09.03.MINI	28	CA.11.17.005	40	CA.15.01.012	44
CA.04.10.36.2	37	CA.08.28.001	24	CA.09.05.009	32	CA.11.17.006	40	CA.15.01.014	44
CA.04.10.45	37	CA.08.28.002	24	CA.09.05.009.L	32	CA.11.17.007	40	CA.15.01.015	44
CA.04.10.45.1	37	CA.08.28.003	24	CA.09.05.010	32	CA.11.17.008	40	CA.15.01.016	44
CA.04.10.45.2	37	CA.08.28.004	24	CA.09.05.010.L	32	CA.11.17.009	40	CA.19.03.001	49
CA.04.10.56	37	CA.08.28.005	24	CA.09.05.011	32	CA.11.17.010	40	CA.ADK.JU.4040	7
CA.04.10.56.1	37	CA.08.28.006	24	CA.09.05.011.L	32	CA.11.18.001	40	CA.ADK.JU.8040	7
CA.04.10.56.2	37	CA.08.28.007	24	CA.09.05.012	32	CA.11.18.002	40	CA.ADK.L.1810	7
CA.04.10.75	37	CA.08.28.008	24	CA.09.05.012.L	32	CA.11.18.003	40	CA.ADK.L.1818	7
CA.04.10.75.1	37	CA.08.28.009	24	CA.09.05.013	32	CA.11.18.004	40	CA.ADK.X.2510	7
CA.04.10.75.2	37	CA.08.28.010	24	CA.09.05.014	32	CA.11.18.005	40	CA.ADK.X.2518	7
CA.04.20.06.X	34	CA.08.28.011	24	CA.09.13.05.15	34	CA.11.18.006	40	CA.ADK.X.2525	7
CA.04.20.08.X	34	CA.08.28.012	24	CA.09.13.05.15.S	34	CA.11.18.007	40	CA.ADK.X.5025	7
CA.04.20.10.X	12	CA.08.28.013	24	CA.09.13.10.25	34	CA.11.18.008	40	CA.ADZ.12.14	40
CA.04.20.14.X	12	CA.08.29.001	22	CA.09.13.10.25.S	34	CA.11.18.009	40	CA.ADZ.16.14	40
CA.04.20.20.X	12	CA.08.29.002	22	CA.09.13.15.35	34	CA.11.18.010	40	CA.ADZ.20.14	40
CA.05.01.001	16	CA.08.29.003	22	CA.09.13.15.35.S	34	CA.12.05.001	42	CA.ADZ.25.20	40
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CA.05.01.003	16	CA.08.29.005	22	CA.09.13.20.45.S	34	CA.12.05.003	42	CA.ADZ.32.20.90	40
CA.05.01.004	16	CA.08.29.006	22	CA.09.14.06	34	CA.12.05.004	43	CA.ADZ.32.25	40
CA.05.01.005	16	CA.08.29.007	22	CA.09.14.07	34	CA.12.05.005	43	CA.AGP.20.G	39
CA.05.01.005.6N	16	CA.08.29.008	22	CA.09.14.09	34	CA.12.05.006	43	CA.AGP.20.M	39
CA.05.01.006	16	CA.08.29.009	22	CA.09.14.10	34	CA.12.05.007	43	CA.AGP.20.G.20	39
CA.05.01.006.6N	16	CA.08.29.010	22	CA.09.14.14	34	CA.12.05.008	43	CA.AGP.20.M.20	39
CA.05.01.100	16	CA.08.29.011	22	CA.09.14.14.S	34	CA.12.05.009	43	CA.ANS.14	32
CA.05.01.50	16	CA.08.29.012	22	CA.09.14.17	34	CA.12.05.012	43	CA.ANS.20	32
CA.05.01.75	16	CA.08.29.013	22	CA.09.14.17.S	34	CA.12.05.013	43	CA.ANS.30	32
CA.05.02.002	16	CA.08.30.001	25	CA.09.14.19	34	CA.12.05.014	43	CA.APG.20.10.30	33
CA.05.02.004	16	CA.08.30.002	25	CA.09.14.19.S	34	CA.12.05.015	42	CA.APG.25.14.40	33
CA.05.02.009	16	CA.08.30.003	25	CA.09.14.22	34	CA.12.05.016	42	CA.APG.32.14.40	33
CA.05.02.009.6N	16	CA.08.30.004	25	CA.09.14.22.S	34	CA.12.05.017	42	CA.APG.40.20.50	33
CA.05.02.010	16	CA.08.30.005	25	CA.09.14.25	34	CA.12.05.018	42	CA.APG.50.20.50	33
CA.05.02.010.6N	16	CA.08.30.006	25	CA.09.14.25.S	34	CA.12.05.019	42	CA.APG.65.20.50	33
CA.05.02.011	16	CA.08.30.007	25	CA.09.14.35	34	CA.12.05.020	42	CA.APGE.10.10.30	33
CA.05.02.012	16	CA.08.30.008	25	CA.09.14.35.S	34	CA.12.05.021	42	CA.APGE.16.14.40	33
CA.07.01.001	16	CA.08.30.009	25	CA.09.14.45	34	CA.12.05.022	42	CA.APGE.20.20.50	33
CA.07.01.002	16	CA.08.30.010	25	CA.09.14.55	34	CA.12.05.023	42	CA.APGE.25.20.50	33
CA.08.01.001	26	CA.08.30.012	25	CA.09.15.001	34	CA.12.05.024	42	CA.APGE.32.20.50	33
CA.08.01.002	26	CA.08.31.001	22	CA.09.15.002	34	CA.12.05.028	43	CA.APGE.40.20.50	33
CA.08.01.003	26	CA.08.31.002	22	CA.09.15.003	34	CA.12.05.029	43	CA.ATK.10.10.30	47
CA.08.01.004	26	CA.08.31.003	22	CA.09.15.004	34	CA.12.05.030	43	CA.ATK.10.10.60	47
CA.08.01.005	26	CA.08.31.004	22	CA.09.15.005	34	CA.12.05.031	43	CA.ATK.10.10.90	47
CA.08.01.006	26	CA.08.31.005	22	CA.09.15.006	34	CA.12.05.034	43	CA.ATK.10.14.120	47
CA.08.03.001	26	CA.08.31.006	22	CA.09.15.007	34	CA.12.05.035	43	CA.ATK.10.14.40	47
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CA.08.03.003	26	CA.08.31.008	22	CA.09.16.001	34	CA.12.05.037	43	CA.BVAE.322010	36
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CA.08.03.005	26	CA.08.31.010	22	CA.09.16.003	34	CA.12.05.039	42	CA.BVAE.32201025	36
CA.08.03.006	26	CA.08.31.011	22	CA.09.16.004	34	CA.12.05.040	42	CA.DB.05.25	36
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CA.08.03.008	26	CA.08.32.D09	23	CA.09.16.006	34	CA.12.05.044	42	CA.DB.10.25	36
CA.08.03.009	26	CA.08.32.D12	23	CA.09.16.007	34	CA.12.05.047	42	CA.DB.10.32	36
CA.08.03.010	26	CA.08.32.D14	23	CA.09.16.008	34	CA.12.05.048	42	CA.DB.15.25	36
CA.08.03.011	26	CA.08.32.D20	23	CA.09.16.009	34	CA.12.05.049	42	CA.DB.15.32	36
CA.08.09.05	44	CA.08.32.D25	23	CA.09.17.0515.X	34	CA.12.05.050	42	CA.EPL.25.170	7
CA.08.09.18	44	CA.08.32.D32	23	CA.09.17.1025.X	34	CA.12.05.051	42	CA.EPL.25.220	7
CA.08.09.14	44	CA.08.32.D42	23	CA.09.17.1535.X	34	CA.12.05.M5ALHU3	43		

CODE	P	CODE	P	CODE	P	CODE	P	CODE	P
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CA.EPL.25.320	7	CA.GGS141815	16	CA.GRZ.20.R	29	CA.GWP.6.22	6	CA.KPLL.1818	8
CA.EPL.50.25.170	7	CA.GGS141840	16	CA.GRZ.20.S	29	CA.GWP.6.25	6	CA.KPLX.2518	8
CA.EPL.50.25.220	7	CA.GGS201425	16	CA.GRZ.20.SN	29	CA.GWP.6.25.3	6	CA.KPLX.2525	8
CA.EPL.50.25.270	7	CA.GGS201445	16	CA.GRZ.20.W	29	CA.GWP.6.28	6	CA.KPLX.5025	8
CA.EPL.50.25.320	7	CA.GGSM100515	17	CA.GRZ.20.WN	29	CA.GWP.6.35	6	CA.KPLX.5050	8
CA.EVB.100.JU	9	CA.GGSM100520	17	CA.GRZ.20.WL	29	CA.GWP.6.40	6	CA.KSW.10.L	12
CA.EVB.100.X	9	CA.GGSM100530	17	CA.GRZ.20.WLN	29	CA.GWP.6.50	6	CA.KSW.10.X	12
CA.EVB.75.X	9	CA.GGSM141815	17	CA.GSE.1018M530	17	CA.GWP.6.52	6	CA.KSW.14.X	12
CA.F1	37	CA.GGSM141840	17	CA.GSE.1018M560	17	CA.GWP.6.90	6	CA.KSW.20.JU	12
CA.F1S	37	CA.GGSM201425	17	CA.GSE.1018M590	17	CA.GWP.6U	6	CA.KSW.20.X	12
CA.F3	37	CA.GGSM201445	17	CA.GSE.10M5M530	17	CA.GZ.32	35	CA.KSW.30.JU	12
CA.F3LS	37	CA.GGV.10050510	15	CA.GSE.10M5M560	17	CA.GZ.3220	35	CA.KVB.JU20	9
CA.F5	37	CA.GGV.10050530	15	CA.GSE.10M5M590	17	CA.GZ.322010	35	CA.KVB.JU30	9
CA.F5LS	37	CA.GGV.14181815	15	CA.GSE.141818120	17	CA.GZ.32201020	35	CA.KVB.KG.JU20	10
CA.F5S	37	CA.GGV.14181840	15	CA.GSE.14181840	17	CA.GZ.32201025	35	CA.KVB.KG.X10	10
CA.FD1	37	CA.GGV.20141820	15	CA.GSE.14181880	17	CA.GZ.3225	35	CA.KVB.KG.X14	10
CA.FD3	37	CA.GGV.20141850	15	CA.GSE.201418100	17	CA.GZA.10.08	28	CA.KVB.L10	9
CA.FD5	37	CA.GGVE.10050510	15	CA.GSE.201418150	17	CA.GZA.10.08.18	28	CA.KVB.X14	9
CA.FN1	38	CA.GGVE.10050530	15	CA.GSE.20141850	17	CA.GZA.10.08.19	28	CA.KVB.X20	9
CA.FN10	38	CA.GGVE.14181815	15	CA.GSE.301414140	17	CA.GZA.10.08.G	28	CA.L.1810.1000	6
CA.FN10C	39	CA.GGVE.14181840	15	CA.GSE.301414200	17	CA.GZA.10.08.S	28	CA.L.1810.2000	6
CA.FN10K	38	CA.GGVE.20141820	15	CA.GSE.30141480	17	CA.GZA.10.08.SN	28	CA.L.1818.1000	6
CA.FN10L	38	CA.GGVE.20141850	15	CA.GSEG.100545	17	CA.GZA.10.12	28	CA.L.1818.2000	6
CA.FN1C	39	CA.GGVG.10050510	15	CA.GSEG.100590	17	CA.GZA.10.12.19	28	CA.LAL.1.5	4
CA.FN1K	38	CA.GGVG.10050530	15	CA.GSEG.141845	17	CA.GZA.10.12.C	28	CA.LAL.1.7	4
CA.FN1L	38	CA.GGVG.14181815	15	CA.GSEG.141890	17	CA.GZA.10.12.G	28	CA.LAL.2.5	4
CA.FN3	38	CA.GGVG.14181840	15	CA.GSEG.201445	17	CA.GZA.10.12.M	28	CA.LAL.2.7	4
CA.FN3C	39	CA.GGVG.20141820	15	CA.GSEG.201490	17	CA.GZA.10.12.MS	28	CA.LAL.3.6	4
CA.FN3K	38	CA.GGVG.20141850	15	CA.GTS.1003.1212	30	CA.GZA.10.12.MSN	28	CA.LAL.3.8	4
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CA.FN5	38	CA.GHV.160	4	CA.GTS.1003.1215	30	CA.GZA.10.12.SN	28	CA.MPG.25	33
CA.FN5C	39	CA.GHV.250	4	CA.GTS.1003.1415	30	CA.GZA.10.12.S4	28	CA.MPG.32	33
CA.FN5K	38	CA.GHV.60	4	CA.GTS.1003.1717	30	CA.GZA.10.12.S4N	28	CA.MPG.40	33
CA.FN5L	38	CA.GLA.1010.30	13	CA.GTS.1003.1919	30	CA.GZA.10.12.S9	28	CA.MPG.50	33
CA.FNP1	38	CA.GLA.1010.60	13	CA.GTS.1003.2929	30	CA.GZA.10.12.S9N	28	CA.MPG.64	33
CA.FNP10	38	CA.GLA.1010.90	13	CA.GTS.1004.1212	30	CA.GZA.10.12.SG	28	CA.MR.05M	37
CA.FNP10C	39	CA.GLA.1414.120	13	CA.GTS.1004.1214	30	CA.GZA.10.12.SGN	28	CA.MR.10M	37
CA.FNP1C	39	CA.GLA.1414.40	13	CA.GTS.1004.1215	30	CA.GZA.AA24	32	CA.MR.20.M	37
CA.FNP3	38	CA.GLA.1414.80	13	CA.GTS.1004.1415	30	CA.GZA.AA24.NO	32	CA.MR.30AM	37
CA.FNP3C	39	CA.GLA.2020	13	CA.GTS.1004.1717	30	CA.HEH.30.50	36	CA.MR.50AM	37
CA.FNP5	38	CA.GLA.2020.150	13	CA.GTS.1004.1919	30	CA.JDR.141005	41	CA.PAA.AP	39
CA.FNP5C	39	CA.GLA.2020.50	13	CA.GTS.1004.2929	30	CA.JDR.142505	41	CA.PAA.CF	39
CA.GAR.10.1000	7	CA.GLA.2030	13	CA.GTS.1010.30	13	CA.JDR.201005	41	CA.PAA.CP	39
CA.GAR.14.1000	7	CA.GLA.3030	13	CA.GVR.1010.60	13	CA.JDR.301518	41	CA.PAA.SP	39
CA.GAR.20.1000	7	CA.GPG.1	4	CA.GVR.1010.90	13	CA.JDR.303018	41	CA.PAC20.16A	28
CA.GAR.30.1000	7	CA.GPG.2	4	CA.GVR.1414.120	13	CA.JDR.305018	41	CA.PAC20.16E	28
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CA.GAZ.16.14.60	41	CA.GPM0	4	CA.GVR.1414.80	13	CA.JU.4040.2000	6	CA.PAC20.16P	28
CA.GAZ.20.20.60	41	CA.GPM0.X	4	CA.GVR.2020.100	13	CA.JU.8040.1000	6	CA.PAC20.16R	28
CA.GAZ.25.20.60	41	CA.GPM1	4	CA.GVR.2020.150	13	CA.JU.8040.2000	6	CA.PAC20.16S	28
CA.GAZ.32.20.60	41	CA.GPM1.X	4	CA.GVR.2020.50	13	CA.KB.10	32	CA.PAC20.16SN	28
CA.GGB.10050530	17	CA.GPM1S	4	CA.GVR.3030.140	13	CA.KB.16	32	CA.PAC20.16W	28
CA.GGB.10050560	17	CA.GPM2	4	CA.GVR.3030.200	13	CA.KB.20	32	CA.PAC20.16WN	28
CA.GGB.10050590	17	CA.GPM2.X	4	CA.GVR.3030.80	13	CA.KB.25	32	CA.PKS.1010.15	13
CA.GGB.141818120	17	CA.GPM2S	4	CA.GWP.3U	6	CA.KBH.12.10.60	41	CA.PKS.1414.20	13
CA.GGB.14181840	17	CA.GPM3	4	CA.GWP.4.16	6	CA.KBH.16.14.90	41	CA.PKS.2020.26	13
CA.GGB.14181880	17	CA.GPM3.X	4	CA.GWP.4.17	6	CA.KBH.16.16.125	41	CA.PKS.3030.38	13
CA.GGB.201418100	17	CA.GPM3S	4	CA.GWP.4.25	6	CA.KBH.20.14.90	41	CA.S2	37
CA.GGB.201418150	17	CA.GPR1.0	4	CA.GWP.4.8	6	CA.KBH.20.16.125	41	CA.S4	37
CA.GGB.20141850	17	CA.GPR2.1	4	CA.GWP.4.9	6	CA.KBH.25.16.125	41	CA.S5	37
CA.GGB.20141850	17	CA.GPR3.2	4	CA.GWP.4U	6	CA.KBH.32.20.125	41	CA.S7P	37
CA.GGD.10050510	15	CA.GRF.1435	31	CA.GWP.5.10	6	CA.KBVJU.4040	8	CA.SAR.2025	18
CA.GGD.10050530	15	CA.GRF.1490	31	CA.GWP.5.11	6	CA.KBVJU.4080	8	CA.SAR.2050	18
CA.GGD.14181815	15	CA.GRF.1495	31	CA.GWP.5.12	6	CA.KBVJU.8040	8	CA.SBP.10.G02	45
CA.GGD.14181840	15	CA.GRF.1495.G	31	CA.GWP.5.15	6	CA.KBVL.1810	8	CA.SBP.15.G02	45
CA.GGD.20141820	15	CA.GRF.1495.GW	31	CA.GWP.5.17	6	CA.KBVL.1818	8	CA.SBP.20.G03	45
CA.GGD.20141850	15	CA.GRF.1495.VSX	31	CA.GWP.5.20	6	CA.KBVX.2510	8	CA.SCAP.12P00E	44
CA.GGDG.10050510	15	CA.GRF.2035	31	CA.GWP.5.22	6	CA.KBVX.2518	8	CA.SCAR.12P00E	44
CA.GGDG.10050530	15	CA.GRF.2035.WE	31	CA.GWP.5.25	6	CA.KBVX.2525	8	CA.SDN.1010	18
CA.GGDG.14181815	15	CA.GRF.2090	31	CA.GWP.5.25.3	6	CA.KBVX.2550	8	CA.SDN.1025	18
CA.GGDG.14181840	15	CA.GRF.2095	31	CA.GWP.5.28	6	CA.KBVX.5025	8	CA.SDN.1420	18
CA.GGDG.20141820	15	CA.GRF.2095.G	31	CA.GWP.5.30	6	CA.KHZ.20141005	41	CA.SDN.1435	18
CA.GGDG.20141850	15	CA.GRF.2095.GW	31	CA.GWP.5.35	6	CA.KHZ.20143005	41	CA.SDN.2025	18
CA.GGE.10.M5.M5	17	CA.GRF.2095.VSX	31	CA.GWP.5.38	6	CA.KHZ.32201518	41	CA.SDN.2050	18
CA.GGE.14.18.18	17	CA.GRF.3035	31	CA.GWP.5.40	6	CA.KHZ.32203018	41	CA.SDN.1010	18
CA.GGE.20.14.14	17	CA.GRF.3090	31	CA.GWP.5.40.3	6	CA.KHZ.32205018	41	CA.SDNG.1025	18
CA.GGE.20.14.18	17	CA.GRF.3095	31	CA.GWP.5.50	6	CA.KKS.10.10	10	CA.SDNG.1420	18
CA.GGE.201414150	17	CA.GRF.3095.G	31	CA.GWP.5.52	6	CA.KKS.14.14	10	CA.SDNG.1435	18
CA.GGS100515	16	CA.GRF.3095.GW	31	CA.GWP.5.60	6	CA.KKS.20.10	10	CA.SDNG.2025	18
CA.GGS100520	16	CA.GRF.3095.VSX	31	CA.GWP.5.75	6	CA.KKS.20.14	10	CA.SDNG.2050	18
CA.GGS100530	16	CA.GRZ.10.08.S	29	CA.GWP.5.9	6	CA.KKS.20.20	10	CA.SDS.04	49
CA.GGS141815	16	CA.GRZ.10.08.SN	29	CA.GWP.5U	6	CA.KPLJU.4025	8	CA.SDS.06	49
CA.GGS141840	16	CA.GRZ.20.A	29	CA.GWP.6.12	6	CA.KPLJU.4040	8	CA.SDS.08	49
CA.GGS201425	16	CA.GRZ.20.E	29	CA.GWP.6.16	6	CA.KPLJU.8040	8	CA.SGB.14.14.X	20

CODE	P	CODE	P	CODE	P	CODE	P	CODE	P
CA.SGB.18.18.X	20	CA.VTB.JU.181818	42	CA.X.2518.2000	6	GTS.03.29	30	KIT.08.30.D14.9	25
CA.SGB.5.5.X	20	CA.VTB.JU.241818	42	CA.X.2525.1000	6	GTS.04.12	30	KIT.08.30.D16.4	25
CA.SLP.05.SI	45	CA.VTB.JU.281818	42	CA.X.2525.2000	6	GTS.04.14	30	KIT.08.30.D16.9	25
CA.SLP.07.SI	45	CA.VTB.X.141818	42	CA.X.5025.1000	6	GTS.04.15	30	KIT.08.30.D20.4	25
CA.SMAR.2025	21	CA.VTB.X.181818	42	CA.X.5025.2000	6	GTS.04.17	30	KIT.08.30.D20.9	25
CA.SMAR.2050	21	CA.VTB.X.241818	42	CA.ZFN1	39	GTS.04.19	30	KIT.08.30.D25.4	25
CA.SMN.142010	19	CA.VTB.X.281818	42	CA.ZFN10	39	GTS.04.29	30	KIT.08.30.D25.9	25
CA.SMN.143510	19	CA.WIV.JU.40	7	CA.ZFN3	39	GZA.10.08.6	29	KIT.08.30.D33.11	25
CA.SMN.202514	19	CA.WIV.JU.40.E	7	CA.ZFN5	39	GZA.10.08.6.V	29	KIT.08.30.D33.21	25
CA.SMN.202520	19	CA.WIV.JU.80.E	7	CA.ZFNP1	39	GZA.10.12.6	29	KIT.08.30.D43.11	25
CA.SMN.205014	19	CA.WIV.X.25.0	7	CA.ZFNP10	39	GZA.10.12.6.V	29	KIT.08.30.D43.21	25
CA.SMN.205020	19	CA.WIV.X.25.E	7	CA.ZFNP3	39	KIT.08.01.D11.4	26	KIT.08.30.D53.11	25
CA.SMNG.142010	19	CA.WIV.X.25.M	7	CA.ZFNP5	39	KIT.08.01.D11.9	26	KIT.08.30.D53.21	25
CA.SMNG.143510	19	CA.WIV.X.50.25	7	CA.ZTB.1040	14	KIT.08.01.D16.4	26	KIT.08.30.D63.11	25
CA.SMNG.202514	19	CA.WKA.10.10.30	13	CA.ZTB.1060	14	KIT.08.01.D16.9	26	KIT.08.30.D63.21	25
CA.SMNG.205014	19	CA.WKA.10.10.60	13	CA.ZTB.1460	14	KIT.08.01.D20.1	26	KIT.08.30.D78.24	25
CA.SN10	38	CA.WKA.10.10.90	13	CA.ZTB.1480	14	KIT.08.01.D30.2	26	KIT.08.31.D06.14	22
CA.SN20	38	CA.WKA.14.14.120	13	CA.ZTB.20100	14	KIT.08.01.D40.2	26	KIT.08.31.D11.4	22
CA.SN3	38	CA.WKA.14.14.40	13	CA.ZTB.30100	14	KIT.08.01.D50.3	26	KIT.08.31.D11.9	22
CA.SN5	38	CA.WKA.14.14.80	13	CA.ZTS.14	32	KIT.08.03.D06.5	26	KIT.08.31.D14.4	22
CA.SNP10	38	CA.WKA.20.20.100	13	CA.ZTS.20	32	KIT.08.03.D08.6	26	KIT.08.31.D14.9	22
CA.SNP20	38	CA.WKA.20.20.150	13	CA.ZTS.30	32	KIT.08.03.D10.4	26	KIT.08.31.D16.4	22
CA.SNP3	38	CA.WKA.20.20.50	13	FS.DHEB8EDEL	35	KIT.08.03.D10.9	26	KIT.08.31.D16.9	22
CA.SNP5	38	CA.WKA.30.30.140	13	FS.DHEB8EDSL	35	KIT.08.03.D12.4	26	KIT.08.31.D20.4	22
CA.SSN.10100505	19	CA.WKA.30.30.200	13	FS.DHEB8EUEL	35	KIT.08.03.D12.9	26	KIT.08.31.D20.9	22
CA.SSN.10250505	19	CA.WKA.30.30.80	13	FS.DHEB8EUSL	35	KIT.08.03.D15.4	26	KIT.08.31.D22.4	22
CA.SSN.14201818	19	CA.WLS.14.14.JU	20	FS.DHEB10EDEL	35	KIT.08.03.D15.9	26	KIT.08.31.D22.9	22
CA.SSN.14351818	19	CA.WLS.14.18.X	20	FS.DHEB10EDSL	35	KIT.08.03.D20.4	26	KIT.08.31.D25.4	22
CA.SSN.20251418	19	CA.WLS.18.18.X	20	FS.DHEB10EUEL	35	KIT.08.03.D20.9	26	KIT.08.31.D25.9	22
CA.SSN.20501418	19	CA.WLS.M5.M5.X	20	FS.DHEB10EUSL	35	KIT.08.03.D25.10	26	KIT.08.31.D33.11	22
CA.SSNG.10100505	19	CA.WSD.L.M5.M5	20	FS.DHEB12EDEL	35	KIT.08.03.D30.10	26	KIT.08.31.D33.21	22
CA.SSNG.10250505	19	CA.WSD.X.14.18	20	FS.DHEB12EDSL	35	KIT.08.03.D35.11	26	KIT.08.31.D43.11	22
CA.SSNG.14201818	19	CA.WSD.X.18.18	20	FS.DHEB12EUEL	35	KIT.08.03.D45.11	26	KIT.08.31.D43.21	22
CA.SSNG.14351818	19	CA.WSL.1040.U.L	11	FS.DHEB12EUSL	35	KIT.08.03.D60.11	26	KIT.08.31.D53.11	22
CA.SSNG.20251418	19	CA.WSL.1040.U.X	11	FS.DHEB14EDEL	35	KIT.08.26.D16.4	23	KIT.08.31.D53.21	22
CA.SSNG.20501418	19	CA.WSL.1040.VU.X	11	FS.DHEB14EDSL	35	KIT.08.26.D16.9	23	KIT.08.31.D63.21	22
CA.SV.JU.6	7	CA.WSL.1050.G.X	11	FS.DHEB14EUEL	35	KIT.08.26.D20.4	23	KIT.08.31.D78.24	22
CA.SV.X.5	7	CA.WSL.1060.VU.X	11	FS.DHEB14EUSL	35	KIT.08.26.D20.9	23	KIT.08.32.D09.26	23
CA.SVB.JU.40.40	8	CA.WSL.1080.VU.X	11	FS.DHEB18EDEL	35	KIT.08.26.D25.4	23	KIT.08.32.D12.4	23
CA.SVB.X.25.25	8	CA.WSL.1440.U.L	11	FS.DHEB18EDSL	35	KIT.08.26.D25.9	23	KIT.08.32.D12.9	23
CA.SVB.X.25.50	8	CA.WSL.1440.U.X	11	FS.DHEB18EUEL	35	KIT.08.26.D33.11	23	KIT.08.32.D14.4	23
CA.SVB.X.50.25	8	CA.WSL.1440.VU.X	11	FS.DHEB18EUSL	35	KIT.08.26.D33.21	23	KIT.08.32.D14.9	23
CA.SVB.X.50.50	8	CA.WSL.1450.U.X	11	FS.DHEB22EDEL	35	KIT.08.26.D43.11	23	KIT.08.32.D20.4	23
CA.SWM0	4	CA.WSL.1450.VU.X	11	FS.DHEB22EDSL	35	KIT.08.26.D43.21	23	KIT.08.32.D20.9	23
CA.SWM1	4	CA.WSL.1460.G.X	11	FS.DHEB22EUEL	35	KIT.08.26.D53.11	23	KIT.08.32.D25.4	23
CA.SWM1S	4	CA.WSL.2060.G.X	11	FS.DHEB22EUSL	35	KIT.08.26.D53.21	23	KIT.08.32.D25.9	23
CA.SWM2	4	CA.WSL.2060.U.X	11	FS.DHEB27EDEL	35	KIT.08.26.D63.11	23	KIT.08.32.D32.11	23
CA.SWM2S	4	CA.WSL.2060.VU.X	11	FS.DHEB27EDSL	35	KIT.08.26.D63.21	23	KIT.08.32.D32.21	23
CA.SWM3	4	CA.WSL.2070.U.JU	11	FS.DHEB27EUEL	35	KIT.08.26.D78.24	23	KIT.08.32.D42.11	23
CA.SWM3S	4	CA.WSL.2070.VU.X	11	FS.DHEB27EUSL	35	KIT.08.27.L24.1A	24	KIT.08.32.D42.21	23
CA.TIK.14007	31	CA.WSL.2080.VU.X	11	FS.DHEB33EDEL	35	KIT.08.27.L30.1A	24	KIT.08.33.D12.4	25
CA.TIK.20007	31	CA.WSL.2570.VU.X	11	FS.DHEB33EDSL	35	KIT.08.27.L36.1A	24	KIT.08.33.D12.9	25
CA.TIK.30007	31	CA.WSL.3060.VU.J	11	FS.DHEB33EUEL	35	KIT.08.27.L45.13	24	KIT.08.33.D14.4	25
CA.UDHE.32203020	36	CA.WSL.3070.U.JU	11	FS.DHEB33EUSL	35	KIT.08.27.L60.13	24	KIT.08.33.D14.9	25
CA.UVV.JU.40.S	7	CA.WSL.3070.VU.J	11	FS.DHEB41EDEL	35	KIT.08.27.L75.13	24	KIT.08.33.D20.4	25
CA.UVV.X.25.S	7	CA.WSL.GA.10.X	12	FS.DHEB41EDSL	35	KIT.08.28.D05	24	KIT.08.33.D20.9	25
CA.VBG.JU.40.160	9	CA.WSL.GA.14.X	12	FS.DHEB41EUEL	35	KIT.08.28.D06	24	KIT.08.33.D25.4	25
CA.VBG.JU.40.80	9	CA.WSL.GA.20.X	12	FS.DHEB41EUSL	35	KIT.08.28.D08	24	KIT.08.33.D25.9	25
CA.VBG.X.25.100	9	CA.WSL.GA.30.X	12	FS.DHEB51EDEL	35	KIT.08.28.D10	24	KIT.08.33.D32.11	25
CA.VBG.X.25.50	9	CA.WSL.KG.JU.20	12	FS.DHEB51EDSL	35	KIT.08.28.D15	24	KIT.08.33.D32.21	25
CA.VBG.X.50.50	9	CA.WSL.KG.X.10	12	FS.DHEB51EUEL	35	KIT.08.28.D20	24	KIT.08.33.D42.11	25
CA.VBL.50.50	9	CA.WSL.KG.X.14	12	FS.DHEB51EUSL	35	KIT.08.28.D25	24	KIT.08.33.D42.21	25
CA.VBL.50.75	9	CA.WSS.JU.14.18	20	FS.DHEB63EDEL	35	KIT.08.28.D30	24	KIT.08.33.D5.25	25
CA.VBL.80.120.JU	9	CA.WSS.L.M5.M5	20	FS.DHEB63EDSL	35	KIT.08.28.D35	24	KIT.08.33.D52.11	25
CA.VBL.80.80.JU	9	CA.WSS.X.14.18	20	FS.DHEB63EUEL	35	KIT.08.28.D40	24	KIT.08.33.D52.21	25
CA.VBT.JU.120	9	CA.WSS.X.18.18	20	FS.DHEB63EUSL	35	KIT.08.28.D50	24	KIT.08.33.D60.21	25
CA.VBT.X.50.75	9	CA.WST.10	11	GRF14.95.0708	32	KIT.08.28.D60	24	KIT.08.33.D7.26	25
CA.VBT.X.75.100	9	CA.WST.10.L	11	GRF14.95.08	32	KIT.08.28.D80	24	KIT.08.33.D9.26	25
CA.VBW.JU.0.90	9	CA.WST.10.X	11	GRF14.95.08.VITON	32	KIT.08.29.D05	22	KIT.08.36.D10	27
CA.VBW.X.0.90	9	CA.WST.14	11	GRF14.VSX	32	KIT.08.29.D06	22	KIT.08.36.D10.60	27
CA.VLR.10.30	14	CA.WST.14.L	11	GRF20.95.0708	32	KIT.08.29.D08	22	KIT.08.36.D15	27
CA.VLR.10.60	14	CA.WST.14.X	11	GRF20.95.08	32	KIT.08.29.D10	22	KIT.08.36.D15.60	27
CA.VLR.10.90	14	CA.WST.20	11	GRF20.95.08.VITON	32	KIT.08.29.D15	22	KIT.08.36.D20	27
CA.VLR.14.120	14	CA.WST.20.JU	11	GRF20.VSX	32	KIT.08.29.D20	22	KIT.08.36.D20.60	27
CA.VLR.14.40	14	CA.WST.20.X	11	GRF30.95.0708	32	KIT.08.29.D25	22	KIT.08.36.D25	27
CA.VLR.14.80	14	CA.WST.30.JU	11	GRF30.95.08	32	KIT.08.29.D30	22	KIT.08.36.D25.60	27
CA.VLR.20.100	14	CA.WST.30.X	11	GRF30.95.08.VITON	32	KIT.08.29.D35	22	KIT.08.36.D35.1	27
CA.VLR.20.150	14	CA.WST.1010.L	67	GRF30.VSX	32	KIT.08.29.D40	22	KIT.08.36.D35.2	27
CA.VLR.20.50	14	CA.WST.1014.X	67	GRZ.20.SC.NPN	48	KIT.08.29.D50	22	KIT.08.36.D35.60	27
CA.VLR.30.140	14	CA.WST.1414.X	67	GRZ.20.SC.PNP	48	KIT.08.29.D60	22	KIT.08.36.D52	27
CA.VLR.30.200	14	CA.WST.2014.X	67	GTS.03.12	30	KIT.08.29.D80	22	KIT.08.36.D52.60	27
CA.VLR.30.80	14	CA.WST.2022.JU	67	GTS.03.14	30	KIT.08.30.D06.14	25	KIT.08.36.D75	27
CA.VSX.1440	18	CA.X.2510.1000	6	GTS.03.15	30	KIT.08.30.D11.4	25	KIT.08.36.D75.60	27
CA.VTB.JU.141818	42	CA.X.2510.2000	6	GTS.03.17	30	KIT.08.30.D11.9	25	KT38N3M	48
		CA.X.2518.1000	6	GTS.03.19	30	KIT.08.30.D14.4	25	KT38NM8	48

CODE	P
KT38P3M	48
KT38PM8	48
KT58N3M	48
KT58NM8	48
KT58P3M	48
KT58PM8	48
MMD.IL5AN3AVF80	48
MMD.IL5AP3AVF80	48
OM.E39-R1S	46
OM.E3Z-D66.OMS	46
OM.E3Z-D86.OMS	46
OM.E3Z-LL66.OMS	46
OM.E3Z-LL86.OMS	46
OM.E3Z-LS66.OMS	46
OM.E3Z-LS86.OMS	46
OM.E3Z-LT66.OMS	46
OM.E3Z-LT86.OMS	46
OM.E3Z-R66.OMS	46
OM.E3Z-R86.OMS	46
OM.XS2F.M124A5M	47
OM.XS2F.M124S5M	47
OM.XS3F.M83A5M	47
OM.XS3F.M83S5M	47
OM.XS3F.M84A5M	47
OM.XS3F.M84S5M	47
PAC.20.16P.03	28
PAC.20.16P.03.VITON	28
PAX.1501252	49

Notes



With 13 years of experience in the automation business in the field of Plastic Molding Technology, the company FPservices stems from its founder experience, who, after have worked as supervisor and as production/manufacturing manager in companies involved in plastic molding business, in 2003 dedicates itself to the foundation of the company FPservices.

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