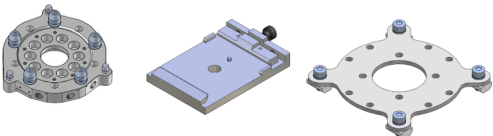
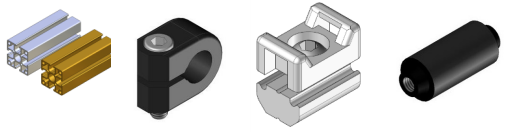
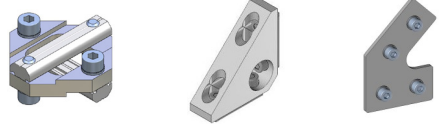
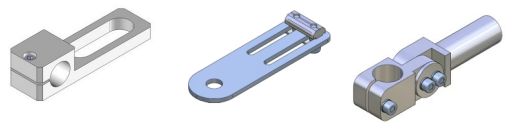
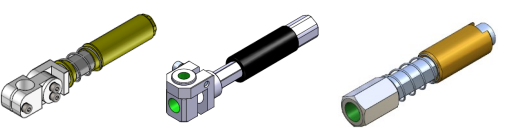
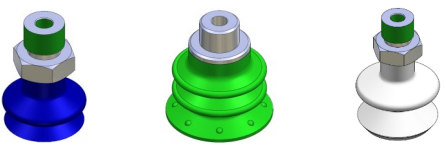
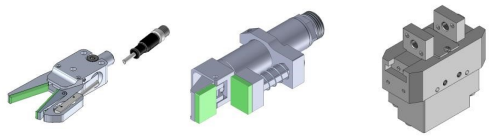
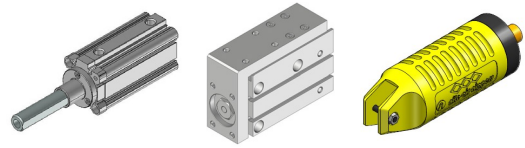
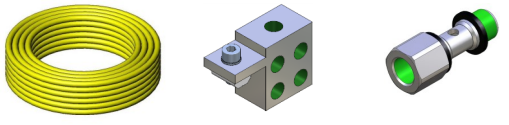




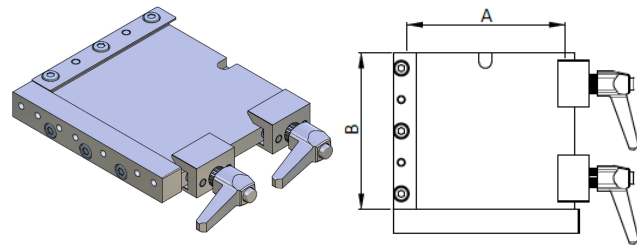
**PRODUCT
OVERVIEW**



General index

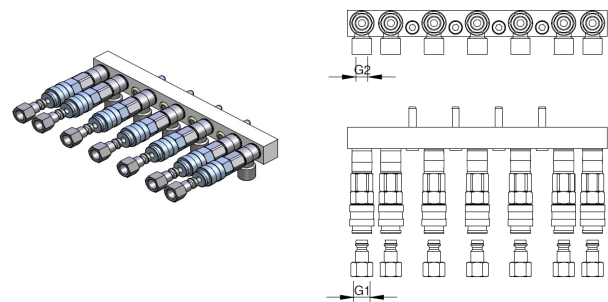
		Page
	01 Quick Changer systems	4-6
	02 Profiles & Accessories - Tube Line	7-9
	03 Profile Connectors	10-11
	04 Clamps	12-15
	05 Gripper arms for vacuum cups	16-23
	08 Vacuum cups & Adapters	24-29
	09 Sprue Grippers - Gripper Fingers - Parallel Grippers Needle Grippers	30-41 44-47
	11 Cylinders Airnippers & Accessories	42 46-49
	12 Pneumatic & Accessories	50-51 58
	14 Sensors & Accessories	52-57

Quick changer (Robot side)



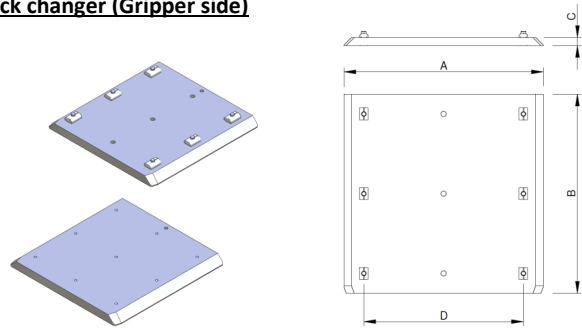
	A	B		
CA.SWM0	60	60	AL.	140 g
CA.SWM1	100	100	STEEL	495 g
CA.SWM1S				1136 g
CA.SWM2	160	160	AL.	1235 g
CA.SWM2S			STEEL	3118 g
CA.SWM3	250	250	AL.	3072 g
CA.SWM3S			STEEL	8180 g

Pneumatic connection for quick changer



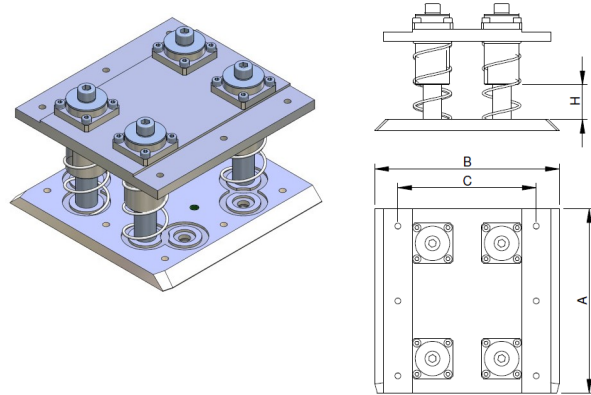
	G1	G2	L	M*	
CA.LAL.1.5	M5	M5	5	CA.SWM1	154 g
CA.LAL.1.7			7		225 g
CA.LAL.2.5	G 1/8	G 1/8	5	CA.SWM2	629 g
CA.LAL.2.7			7		854 g
CA.LAL.3.6	G 1/4	G 1/4	6	CA.SWM3	1162 g
CA.LAL.3.8			8		1503 g

Quick changer (Gripper side)



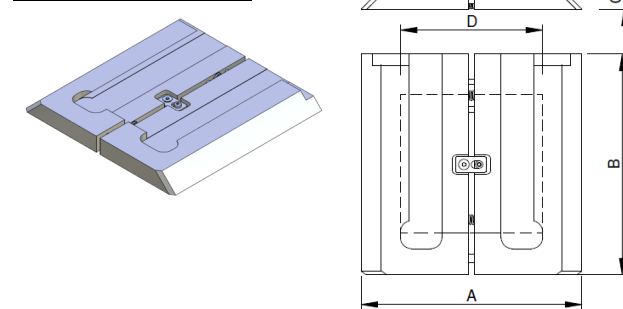
	A	B	C	D	M*		
CA.GPM0	60	60	8	...	...	AL.	69 g
CA.GPM0.X				35	L		104 g
CA.GPM1	100	100		...	...		201 g
CA.GPM1.X				70	L/X		241 g
CA.GPM1S				...	...	STEEL	582 g
CA.GPM2	160	160	10	...	...		653 g
CA.GPM2.X				120	L/X/JU	AL.	695 g
CA.GPM2S				...	...	STEEL	1892 g
CA.GPM3	250	250		...	...	AL.	1613 g
CA.GPM3.X				200	L/X/JU		1677 g
CA.GPM3S				...	...	STEEL	4673 g

Ground Plate Spring Loaded



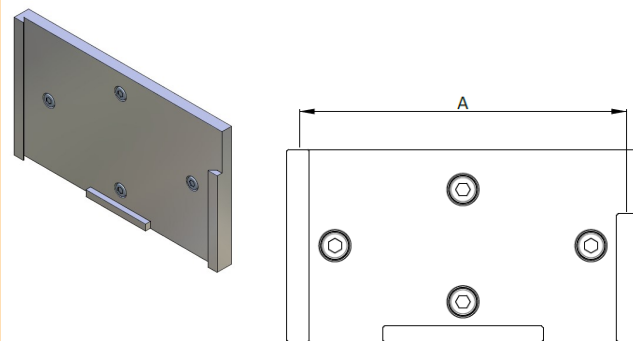
	A	B	C	H	F(N)	
CA.GPG.1	100	100	70	22	36	486 g
CA.GPG.2	160	160	120	30	50	1344 g
CA.GPG.3	250	250	200			3798 g

Ground Plate Reduction



	A	B	C	D	M*	
CA.GPR1.0	100	100	15	60	CA.GPM0/CA.SWM1	263 g
CA.GPR2.1	160	160	100		CA.GPM1/CA.SWM2	703 g
CA.GPR3.2	250	250	20	160	CA.GPM2/CA.SWM3	2441 g

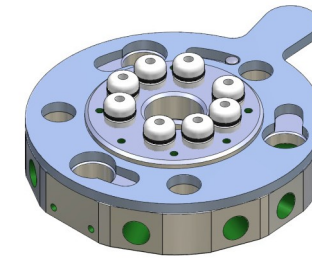
Holding Fixture



	A	M*	
CA.GHV.60	60	CA.GPM0	128 g
CA.GHV.100	100	CA.GPM1	182 g
CA.GHV.160	160	CA.GPM2	412 g
CA.GHV.250	250	CA.GPM3	1033 g

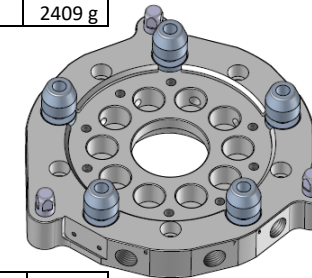
Quick changer

Robot side



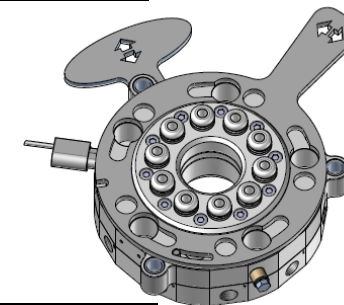
		Diameter	
CA.CUSL.50.R	RS/50	50	108 g
CA.01.01.001	RS/90	90	318 g
CA.01.01.003	RS/150	150	1158 g
CA.01.01.013	RS/160		1213 g
CA.CUSL.200.R	RS/200	200	2409 g

Gripper side



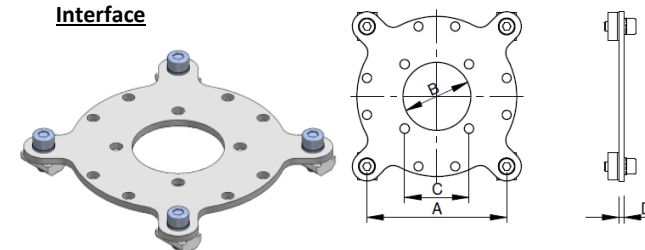
		Diameter	
CA.CUSL.50.G	GS/50	50	63 g
CA.01.01.002	GS/90	90	257 g
CA.01.01.004	GS/150		836 g
CA.CUDL.150.G	GS/150	150	699 g
CA.01.01.014	GS/160		919 g
CA.CUDL.160.G	GS/160		997 g
CA.CUSL.200.G	GS/200	200	1774 g

Robot side



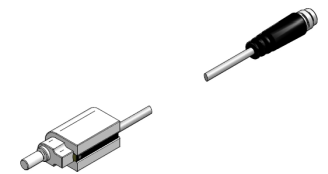
		Diameter	
CA.CUDL.90	RS/90	90	520 g
CA.CUDL.150	RS/150	150	2224 g
CA.CUDL.160	RS/160	150	2115 g

Interface



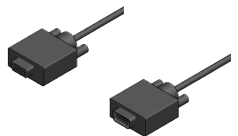
	A	B	C	D	M*	
CA.CUSL.50.I	25	32	15	3	CA.CUSL.50.G	63 g
CA.01.01.006	76	37	35	3	CA.01.01.002 CA.CUDL.90	170 g
CA.01.01.007	110	70	52	4	CA.01.01.004 CA.01.01.014	497 g
CA.CUSL.200.I	192	140	151.6	8	CA.CUSL.200.G	1439 g

QC security lock with sensor



		M*	
CA.CUDL.01	PNP	CA.CUDL.90	17 g
CA.CUDL.02	NPN	CA.CUDL.150	
CA.CUDL.03	2 WIRES	CA.CUDL.160	

Cable

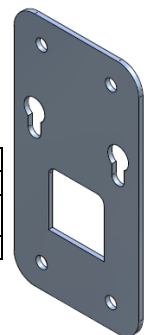


		M*	
CA.01.01.011	Female cable	Robot side	
CA.01.01.012	Male cable	Gripper side	

Electrical connection module

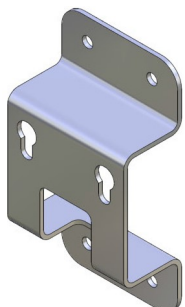
	M*	
	Robot side	
	Gripper side	

Holding Fixture

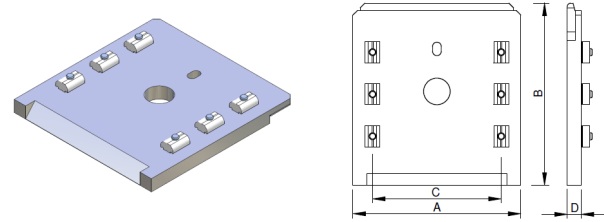


	A	M*	
CA.01.01.015.F	90	CA.01.01.002	307 g
CA.01.01.016.F	150	CA.01.01.004 CA.01.01.014	720 g
CA.01.01.017.F	200	CA.CUSL.200G	1398 g

	A	M*	
CA.CUSL.50.H	50	CA.CUSL.50.G	125 g
CA.01.01.015	90	CA.01.01.002	440 g
CA.01.01.016	150	CA.01.01.004 CA.01.01.014	926 g
CA.01.01.017	200	CA.CUSL.200G	1178 g

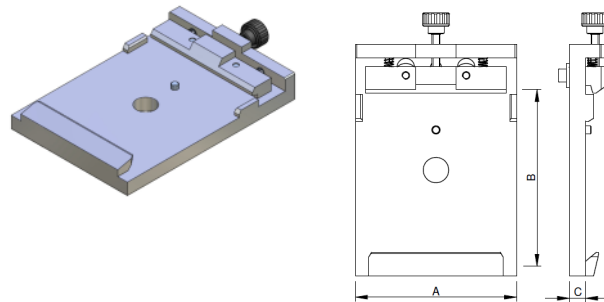


Quick changer (gripper side)



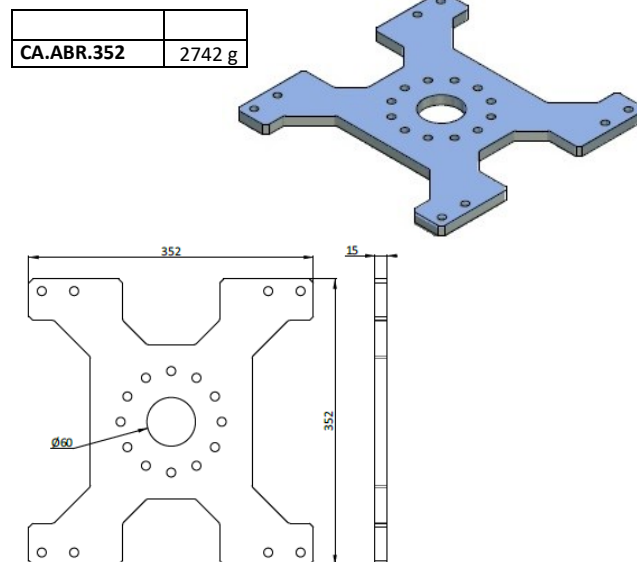
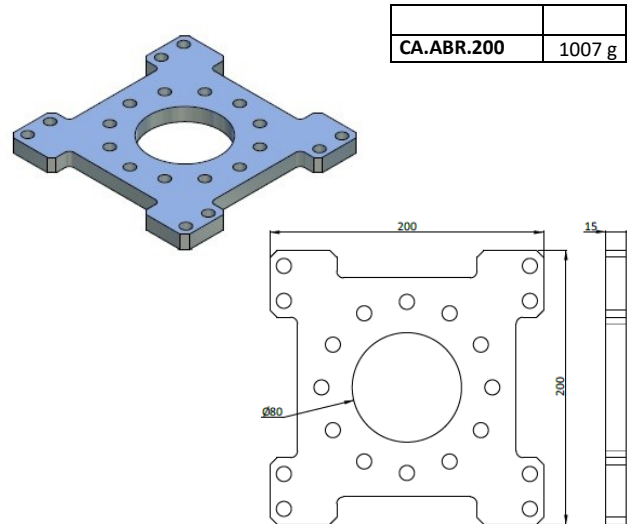
	A	B	C	D	M*	M1	
CA.01.02.002	60	72	20		CA.01.02.001	...	89 g
CA.01.02.002.X					L/X	125 g	
CA.01.02.004					CA.01.02.003	...	377 g
CA.01.02.004.X	120	130	92	10	L/X/JU	432 g	
CA.01.02.004A					...	371 g	
CA.01.02.004A.X					L/X/JU	426 g	
CA.01.02.008	90	108	62		CA.01.02.007	...	225 g
CA.01.02.008.X					L/X	262 g	

Quick changer (robot side)

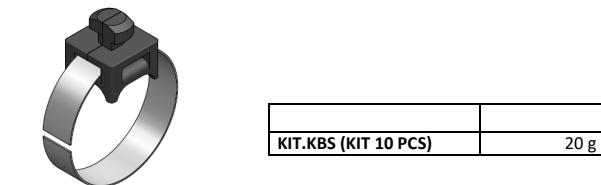


	A	B	C	H	M*	
CA.01.02.001	60	72	8	5 kg	CA.01.02.002	234 g
CA.01.02.003	120	130	12	20 kg	CA.01.02.004	814 g
CA.01.02.003B					CA.01.02.004A	
CA.01.02.007	90	108	8	10 kg	CA.01.02.008	391 g

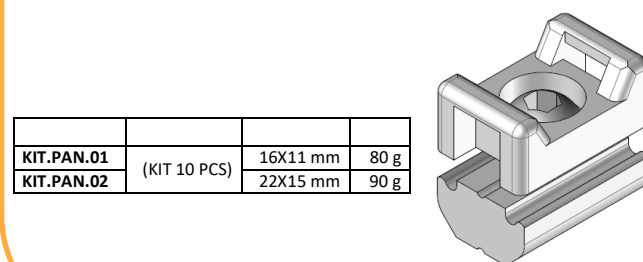
ABR Universal adapter plate



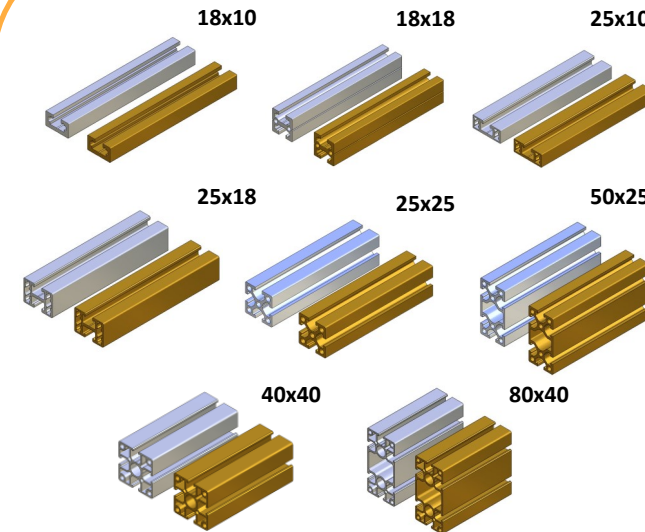
Cable Tie Last Minute



Support for cable tie



Pro les



	L	M*	M1	
CA.L.1810.1000/1000G	1 m	CA.GWP	CA.ADK.L.1810	267 g
CA.L.1810.2000/2000G	2 m			534 g
CA.L.1818.1000/1000G	1 m		CA.ADK.L.1818	410 g
CA.L.1818.2000/2000G	2 m			820 g
CA.X.2510.1000/1000G	1 m		CA.ADK.X.2510	302 g
CA.X.2510.2000/2000G	2 m			605 g
CA.X.2518.1000/1000G	1 m		CA.ADK.X.2518	456 g
CA.X.2518.2000/2000G	2 m			913 g
CA.X.2525.1000/1000G	1 m		CA.ADK.X.2525	683 g
CA.X.2525.2000/2000G	2 m			1365 g
CA.X.5025.1000/1000G	1 m		CA.ADK.X.5025	1150 g
CA.X.5025.2000/2000G	2 m			2311 g
CA.JU.4040.1000/1000G	1 m		CA.ADK.JU.4040	1407 g
CA.JU.4040.2000/2000G	2 m			2814 g
CA.JU.8040.1000/1000G	1 m		CA.ADK.JU.8040	2302 g
CA.JU.8040.2000/2000G	2 m			4603 g

Example: CA.L.1810.1000 = Silver Profile
CA.L.1810.1000G = Gold Profile

Pro le end cap

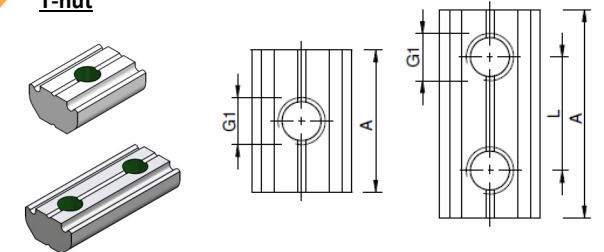


	A	B	M*	
CA.ADK.L.1810	18	10	CA.L.1810...	1 g x 10
CA.ADK.L.1818		18	CA.L.1818...	
CA.ADK.X.2510		10	CA.X.2510...	
CA.ADK.X.2518	25	18	CA.X.2518...	2 g x 10
CA.ADK.X.2525		25	CA.X.2525...	
CA.ADK.X.5025	50	25	CA.X.5025...	3 g x 10
CA.ADK.JU.4040	40	40	CA.JU.4040...	7 g x 10
CA.ADK.JU.8040	80	40	CA.JU.8040...	13 g x 10

Butt connector

	M*	
CA.SV.X.5	M5	X 9 g
CA.SV.JU.6	M6	JU 12 g

T-nut



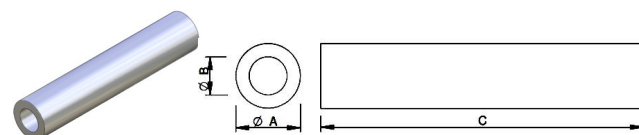
	G1	L	A	M*	
CA.GWP.3U	M3	...	15	L/X/JU	6 g
CA.GWP.4U			10		
CA.GWP.4LM		8	16		
CA.GWP.4.8	M4	9	19		7 g
CA.GWP.4.9		16	24		9 g
CA.GWP.4.16		17	25		10 g
CA.GWP.4.17		25	32		13 g
CA.GWP.4.25		...	15		6 g
CA.GWP.5U		...	10		2 g
CA.GWP.5LM		9	18		6 g
CA.GWP.5.9		10	18		
CA.GWP.5.10		11	19		7 g
CA.GWP.5.11		12	22		8 g
CA.GWP.5.12		15	25		9 g
CA.GWP.5.15		17	25		
CA.GWP.5.17		20	30		11 g
CA.GWP.5.20		22	32		12 g
CA.GWP.5.22		25	33		12 g
CA.GWP.5.25		25 x 2	58		23 g
CA.GWP.5.25.3		28	38		13 g
CA.GWP.5.28		30	40		16 g
CA.GWP.5.30		35	45		18 g
CA.GWP.5.35		38	48		
CA.GWP.5.38		40	48		18 g
CA.GWP.5.40		40 x 2	88		35 g
CA.GWP.5.40.3		50	58		23 g
CA.GWP.5.50		52	64		26 g
CA.GWP.5.52		60	68		27 g
CA.GWP.5.60		75	83		34 g
CA.GWP.5.75		...	10		2 g
CA.GWP.6LM		12	24		4 g
CA.GWP.6U		16	26		8 g
CA.GWP.6.12		20	30		9 g
CA.GWP.6.16		22	32		11 g
CA.GWP.6.20		25	35		12 g
CA.GWP.6.22		25 x 2	58		13 g
CA.GWP.6.25		28	40		22 g
CA.GWP.6.25.3		35	45		15 g
CA.GWP.6.28		40	50		17 g
CA.GWP.6.35		50	60		19 g
CA.GWP.6.40		52	64		24 g
CA.GWP.6.50		90	100		25 g
CA.GWP.6.52		...	500		40 g
CA.GWP.6.90		...	...		212 g
CA.GWP.500		1000	...		423 g
CA.GWP.1000					

Butt connector

	M*	
CA.UVV.X.25.S	X	6 g
CA.UVV.JU.40.S	JU	6 g

Round pro le tube

TUBE LINE



	A	B	C	
CA.GAR.10.1000	10	5	1000	160 g
CA.GAR.14.1000	14	7	1000	313 g
CA.GAR.20.1000	20	12	1000	545 g
CA.GAR.30.1000	30	26	1000	477 g

	A	B	C	
CA.PAT.25X3.2000	25	22	2000	1124 g
CA.PAT.25X5.2000	25	20	2000	1790 g
CA.PAT.40X3.2000	40	37	2000	2286 g
CA.PAT.40X6.2000	40	34	2000	3652 g

	A	B	C	
CA.02.02.001	12	10	1000	275 g
CA.02.02.002	16	14	1000	376 g
CA.02.02.003	20	17	1000	695 g

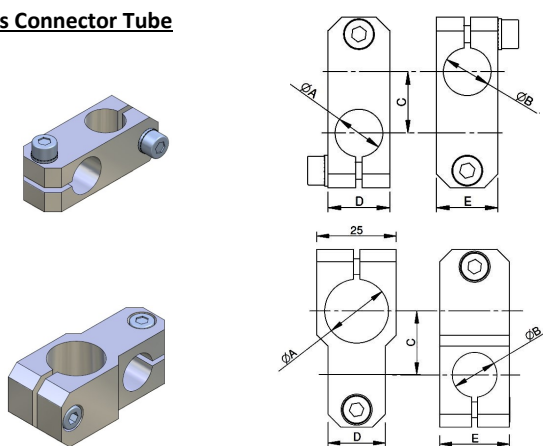
Pro le end cap



	M*	
CA.KAB.25X5	CA.PAT.25X5.2000	3 g
CA.KAB.40X3	CA.PAT.40X3.2000	11 g
CA.KAB.40X6	CA.PAT.40X6.2000	9 g

	M*	
CA.02.04.001	CA.02.02.001	1 g
CA.02.04.002	CA.02.02.002	2 g
CA.02.04.003	CA.02.02.003	2 g

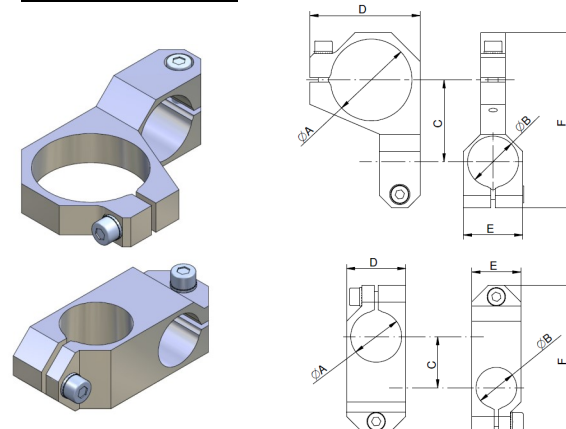
Cross Connector Tube



	A	B	C	D	E	
CA.KKS.10.10	10	10	16	14	14	16 g
CA.KKS.14.14	14	14	18	18	18	35 g
CA.KKS.20.20	20	20	26	25	25	70 g
CA.KKS.20.10	20	10	20	14	20	40 g
CA.KKS.20.14	20	14	20	18	22	48 g
CA.KKS.30.30	30	30	35	40	40	253 g

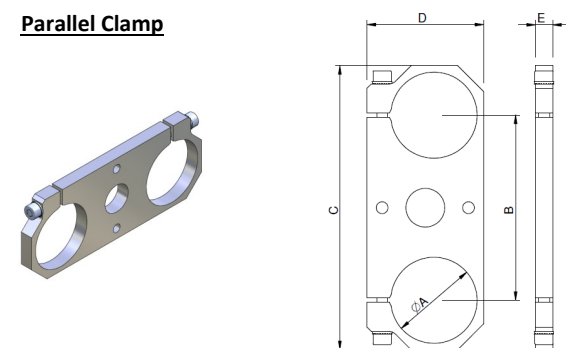
	A	B	C	D	E	
CA.03.03.001	16	16	18	25	25	30 g
CA.03.03.002	12	16	20	25	25	35 g
CA.03.03.003	12	12	15	20	20	38 g
CA.03.03.004	16	20	22	30	30	50 g

Cross Connector Tube

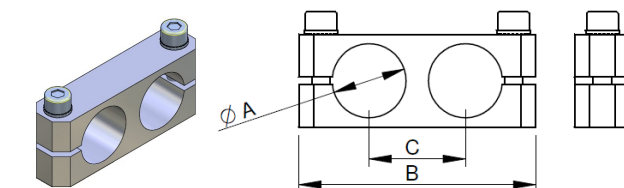


	A	B	C	D	E	
CA.KKS.L.2020	20	20	25	24	24	53 g
CA.KKS.L.2025	25	25	30	29	29	67 g
CA.KKS.L.2525	25	25	30	29	29	87 g
CA.KKS.L.4020	40	20	40	54	24	57 g
CA.KKS.L.4025	40	25	40	54	29	60 g
CA.KKS.L.4040	40	40	50	44	44	92 g

Parallel Clamp

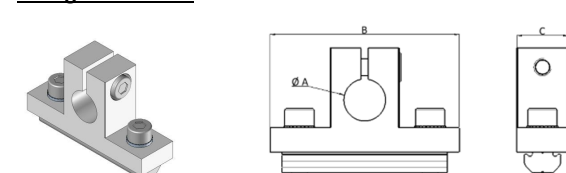


	A	B	C	D	E	
CA.PKS.L.4040.76	40	76	122	54	8	82 g
CA.PKS.L.4040.86	40	86	132	54	8	93 g



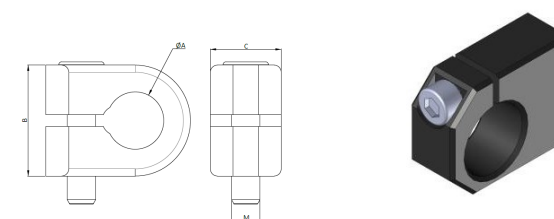
	A	B	C	
CA.PKS.1010.15	10	38	15	11 g
CA.PKS.1414.20	14	52	20	27 g
CA.PKS.2020.26	20	64	26	46 g
CA.PKS.2020.41	20	79	41	60 g
CA.PKS.3030.38	30	88	38	103 g

Omega connector



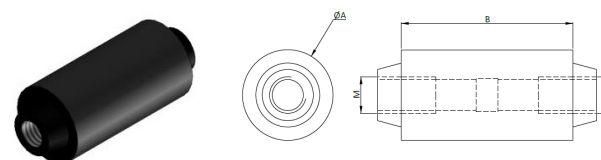
	A	B	C	
CA.03.07.001.X	12	55	15	35 g
CA.03.07.002.X	16	55	15	50 g
CA.03.07.003.X	20	68	25	63 g

Connector round for tubes



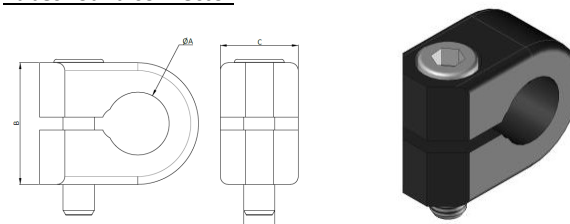
	A	B	C	M	
CA.ARA.20	20	40	32	M6	40 g
CA.ARA.25	25	50	20	M8	101 g
CA.ARA.40	40	70	30	M10	294 g

Clamping joint



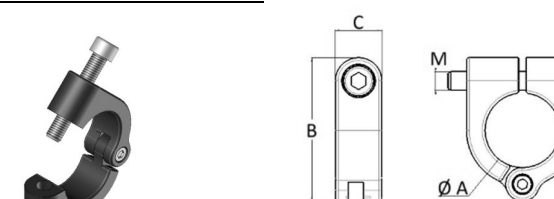
	A	B	M	
CA.R.VLB.27	25	40	M10	37 g
CA.R.VLB.47	25	60	M10	59 g

Tubes round connector



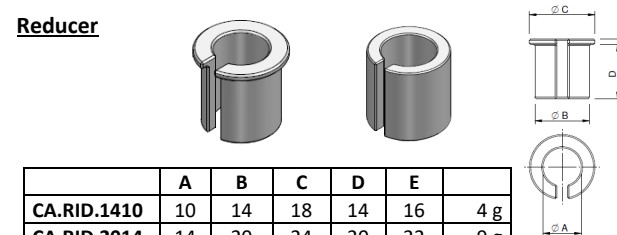
	A	B	C	M	
CA.HAR.20	20	39	25	M10	113 g
CA.HAR.25	25	40	25	M10	105 g
CA.HAR.40	40	55	25	M10	159 g

Tubes round connector Last



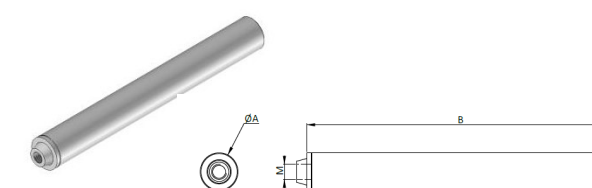
	A	B	C	M	
CA.HAR.20.LM	20	65	25	M10	48 g
CA.HAR.25.LM	25	65	25	M10	48 g
CA.HAR.40.LM	40	77	25	M10	193 g

Reducer



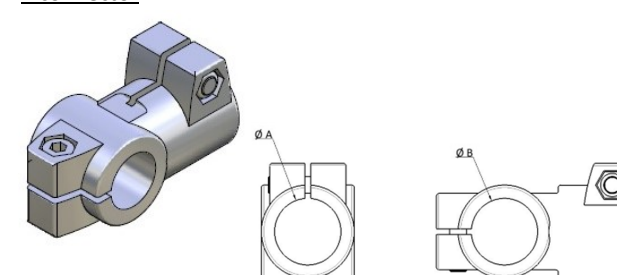
	A	B	C	D	E	
CA.RID.1410	10	14	18	14	16	4 g
CA.RID.2014	14	20	24	20	22	9 g
CA.RID.3020	20	30	30	30	30	30 g

Extension tube



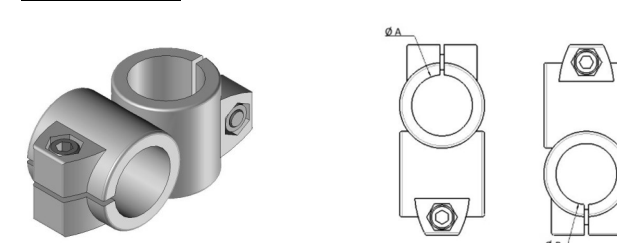
	A	B	M	
CA.R.VLR.200	25	200	M10	18 g
CA.R.VLR.400	25	400	M10	357 g

T connector



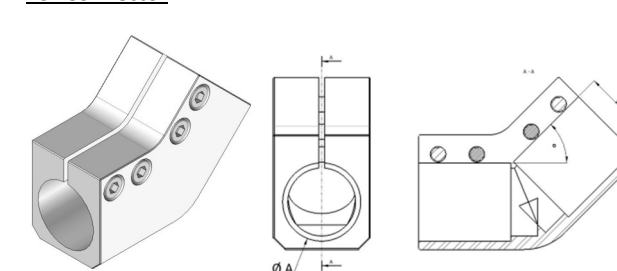
	A	B		
CA.ATK.20.20	20	20		218 g
CA.ATK.25.25	25	25		217 g
CA.ATK.40.40	40	40		476 g

Cross connector



	A	B		
CA.KKRO.25.25	25	25		192 g
CA.KKRO.40.40	40	40		417 g
CA.KK.25.14	25	14		155 g
CA.KK.40.20	40	20		640 g
CA.KK.40.25	40	25		601 g

45° Connector

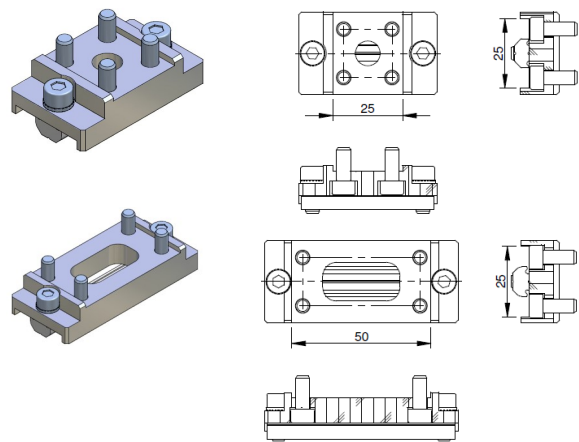


	A	B	°	
CA.AWK.25.45	25	25	45°	195 g
CA.AWK.40.45	40	40	45°	538 g

For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

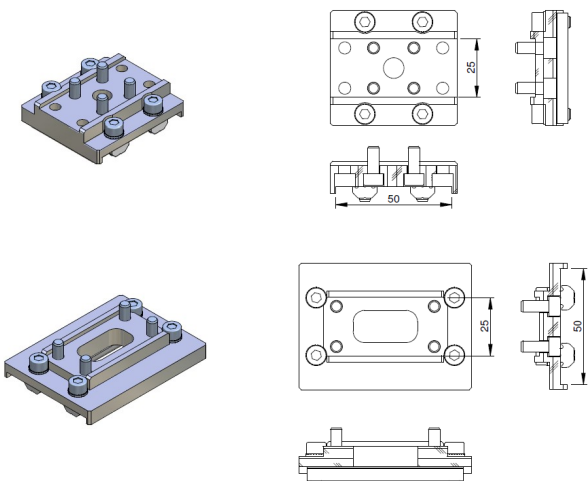
For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

Pro le End Connector 25



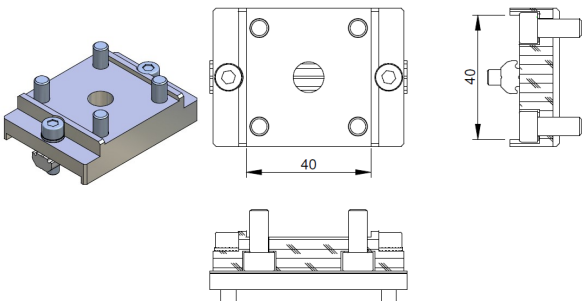
	M*	
CA.SVB.X.25.25	X	67 g
CA.SVB.X.25.50		88 g

Pro le End Connector 50



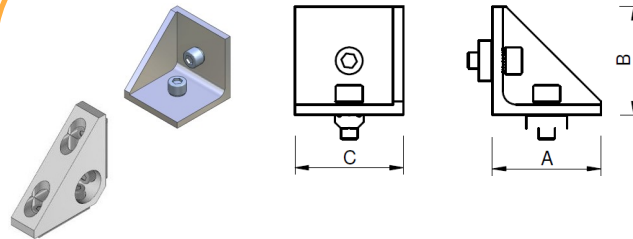
	M*	
CA.SVB.X.50.25	X	114 g
CA.SVB.X.50.50		149 g

Pro le End Connector 40



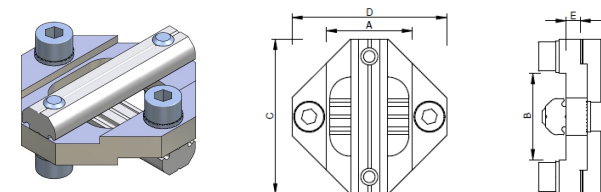
	M*	
CA.SVB.JU.40.40	JU	129 g

Corner Connector



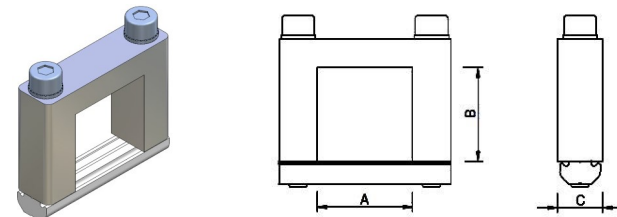
	A	B	C	M*	
CA.WIV.X.25.0	25	25	16	X	28 g
CA.WIV.X.50.25	51	51			80 g
CA.WIV.X.25.M	18	18			21 g
CA.WIV.X.25.E	38	38	18		37 g
CA.WIV.JU.40	40	40	40	JU	60 g
CA.WIV.JU.40.E	38	38	38		68 g
CA.WIV.JU.80.E	78	78	37		184 g

Cross Joint Connector



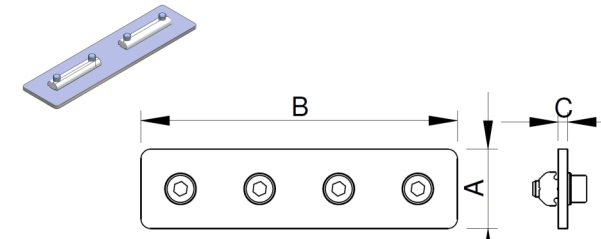
	A	B	C	D	E	M*	
CA.KPLL.1818	18	18	38	38	2	L	55 g
CA.KPLX.2518	25	25	45	45		L/X	67 g
CA.KPLX.2525	25	25	45	45		X	76 g
CA.KPLX.5025	50	50	70	70			192 g
CA.KPLX.5050	50	50	70	70		X	81 g
CA.KPLJU.4040	40	40	65	65	4	JU	81 g
CA.KPLJU.4025	40	25	45	60		JU/X	77 g
CA.KPLJU.8040	80	40	100	100		JU	156 g
CA.KPLJU.8080	80	80	100	100		JU	268 g

Square Joint Connector



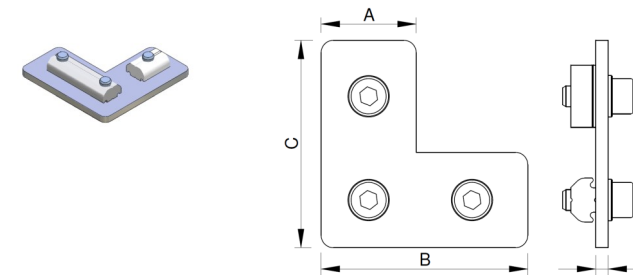
	A	B	C	M*	
CA.KBVL.1810	18	10	10	L	13 g
CA.KBVL.1818	18	18			22 g
CA.KBVX.2510	25	10			42 g
CA.KBVX.2518	25	18			48 g
CA.KBVX.2525	25	25	12	X	40 g
CA.KBVX.2550	25	50			54 g
CA.KBVX.5025	50	25			57 g
CA.KBVJU.4040	40	40			72 g
CA.KBVJU.4080	40	80	15	JU	96 g
CA.KBVJU.8040	80	40			107 g

Straight Connector



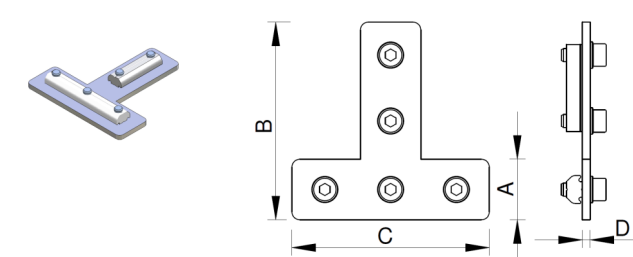
	A	B	C	M*	
CA.VBG.X.25.50	25	50		X	47 g
CA.VBG.X.50.50	50	50			94 g
CA.VBG.X.25.100	25	100	3		99 g
CA.VBG.JU.40.80	40	80		JU	97 g
CA.VBG.JU.40.160	40	160			215 g

Connector L-Style



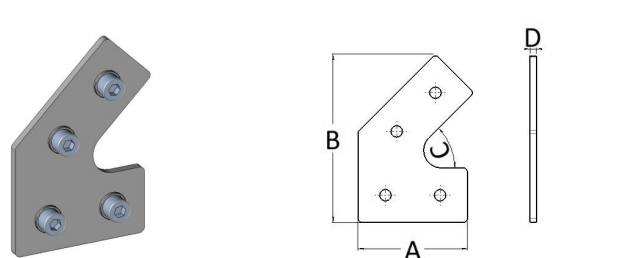
	A	B	C	D	M*	
CA.VBL.50.50	25	50	50		X	71 g
CA.VBL.50.75			75			96 g
CA.VBL.80.80.JU	40	80	80		JU	147 g
CA.VBL.80.120.JU			120			200 g

Connector T-Style



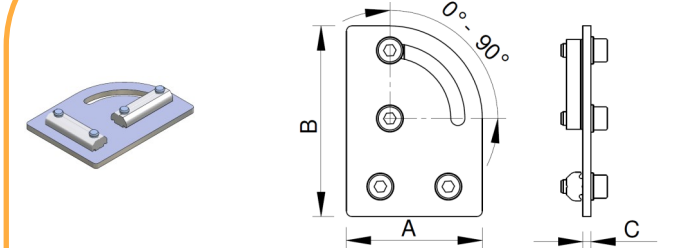
	A	B	C	D	M*	
CA.VBT.X.50.75	25	75	75		X	123 g
CA.VBT.X.75.100			100			149 g
CA.VBT.JU.120	40	120	80		JU	264 g

Connector 45°-Style



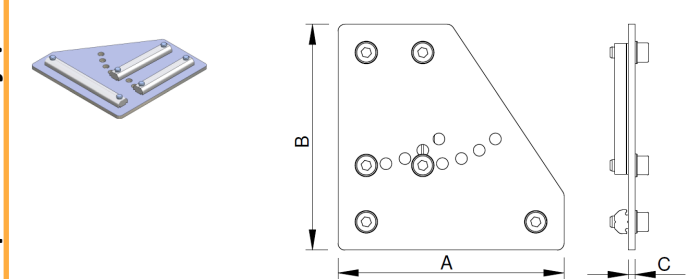
	A	B	C	D	M*	
CA.VBW.X.45	50	77	45°		X	104 g
CA.VBW.JU.45	130	147		3	JU	372 g

Adjustable Connector 0-90°



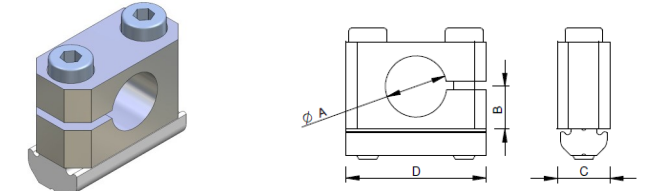
	A	B	C	M*	
CA.VBW.X.0.90	50	70	3	X	113 g
CA.VBW.JU.0.90	80	120		JU	256 g

Corner Joint Plate



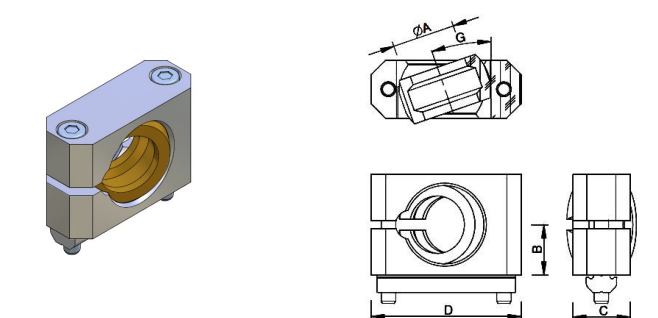
	A	B	C	M*	
CA.EVB.75.X	75			X	193 g
CA.EVB.100.X	100	100	3		292 g
CA.EVB.100.JU	80			JU	212 g

Cross Connector Round



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

Cross Connector Round With Ball Joint

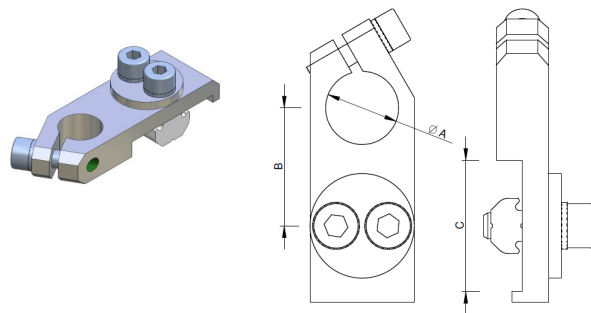


	A	B	C	D	G°	M*	
CA.KVB.KG.X10	10	10	12	32	0°-13°	X	42 g
CA.KVB.KG.X14	14	12,5	15	40	0°-17°		62 g
CA.KVB.KG.JU20	20	17,5	20	52	0°-19°	JU	124 g

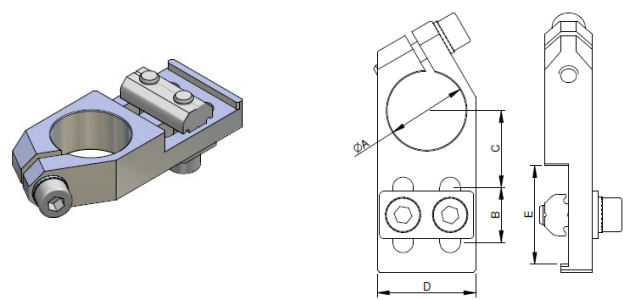
For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

Adjustable Clamp

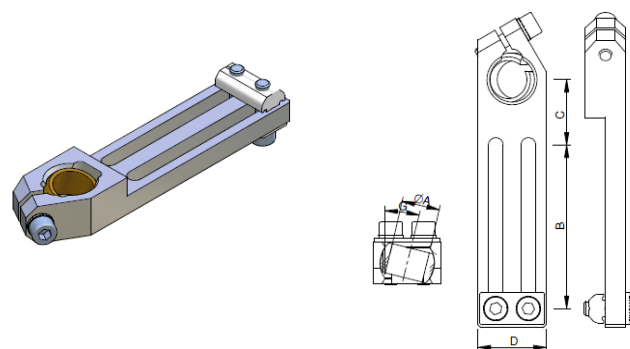


	A	B	C	M*	
CA.WST.10.L	10	17	18	L	20 g
CA.WST.10.X		21	25	X	
CA.WST.14.L	14	19	18	L	31 g
CA.WST.14.X		23	25	X	
CA.WST.20.X	20	27			42 g
CA.WST.20.JU		34		JU	50 g
CA.WST.30.X	30	30	40	X	95 g
CA.WST.30.JU		38		JU	105 g



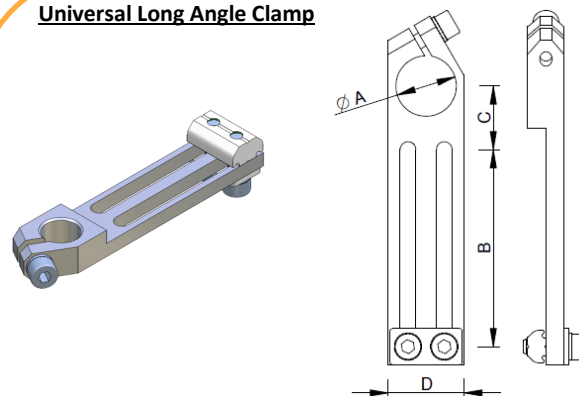
	A	B	C	D	E	M*	
CA.WST.1010.L	10	10	12	16	18	L	14 g
CA.WST.1014.X			13.55				15 g
CA.WST.1414.X	14	14	15.55	20	25	X	28 g
CA.WST.2014.X	20		19.55	25			38 g
CA.WST.2022.JU		22	23		40	JU	43 g

Long Angle Clamp With Ball joint



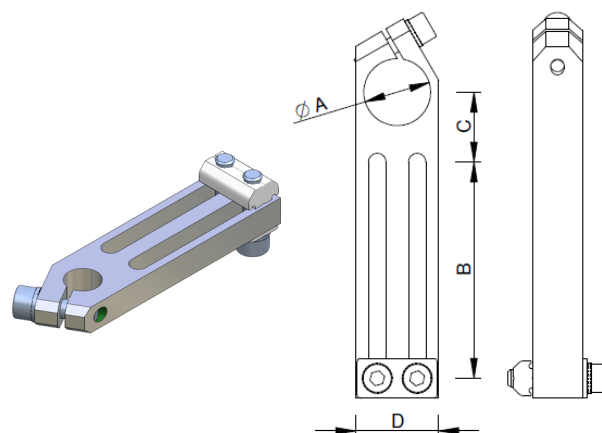
	A	B	C	D	G°	M*	
CA.WSL.1050.G.X	10	50	20	20	0°-13°		51 g
CA.WSL.1460.G.X	14	60	24	25	0°-17°	X	78 g
CA.WSL.2060.G.X	20		29	35	0°-19°	X/JU	168 g

Universal Long Angle Clamp



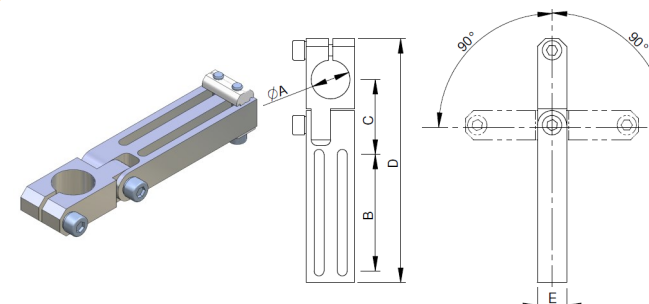
	A	B	C	D	M*	
CA.WSL.1040.U.L	10		17,5	16	L	23 g
CA.WSL.1040.U.X					X	
CA.WSL.1440.U.L	14	40			L	32 g
CA.WSL.1440.U.X			19	20	X	33 g
CA.WSL.1450.U.X		50				39 g
CA.WSL.2060.U.X	20	65	21		X/JU	58 g
CA.WSL.2070.U.X			25,5	25		76 g
CA.WSL.2070.U.JU		70			JU	78 g
CA.WSL.3070.U.JU	30		30	35		136 g

Long Angle Clamp Heavy Duty



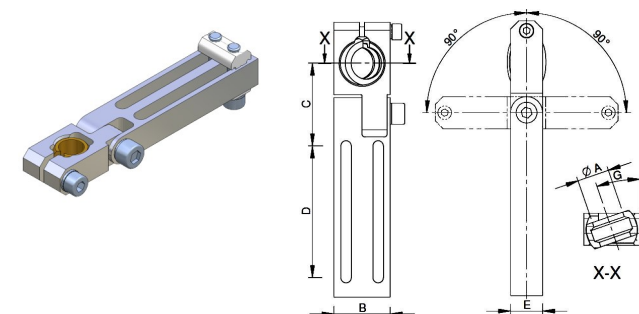
	A	B	C	D	M*	
CA.WSL.1040.VU.X	10	40	15		L	41 g
CA.WSL.1060.VU.X		60				48 g
CA.WSL.1080.VU.X		80	16		L/X	53 g
CA.WSL.1440.VU.X	14	40	19			43 g
CA.WSL.1450.VU.X		50	22		X	59 g
CA.WSL.2060.VU.X		65	21		X/JU	94 g
CA.WSL.2070.VU.X	20	70		25		106 g
CA.WSL.2080.VU.X		80	25,5			111 g
CA.WSL.2570.VU.X	25	70	21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

Long Angle Clam (Swivel Head)



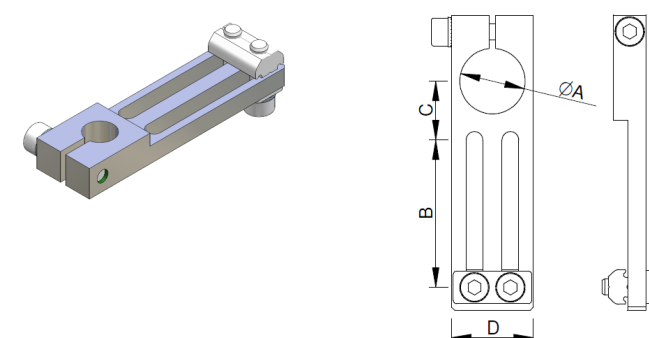
	A	B	C	D	E	M*	
CA.WSL.GA.10.X	10		26,6	85		L/X	57 g
CA.WSL.GA.14.X	14	40	27,8	88	10	X	
CA.WSL.GA.16.X	16	60	36,5	121	15	X	119 g
CA.WSL.GA.20.X	20	60	38,5	125	15	X/JU	122 g
CA.WSL.GA.30.X	30	82	53	168	20	JU	266 g

Long Angle Clamp Swivel Head and Ball Joint

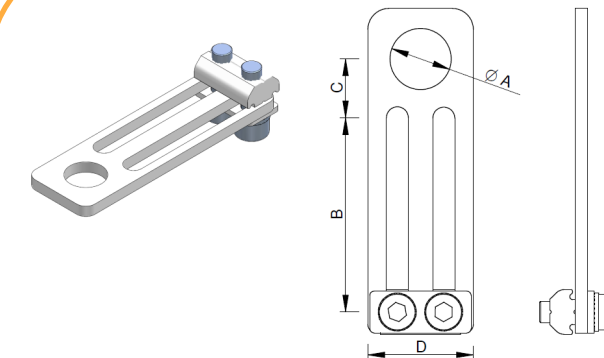


	A	B	C	D	E	G°	M*	
CA.WSL.KG.X.10	10	20	32,5	50	12	0°-13°		59 g
CA.WSL.KG.X.14	14	25	39,5	60	15	0°-17°	X	109 g
CA.WSL.KG.JU.20	20	35	51,5	82	20	0°-19°	X/JU	266 g

Long Angle Clamp

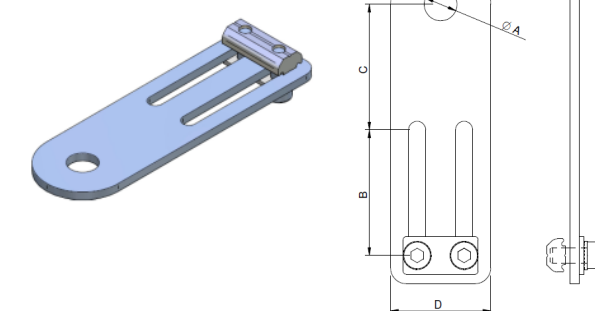


	A	B	C	D	M*	
CA.04.02.10.X	10	40	15,5	20	X	41 g
CA.04.02.12.X	12	40	15,5	20	X	39 g
CA.04.02.14.X	14	45	16,5	25	X	53 g
CA.04.02.16.X	16	45	16,5	25	x	51 g
CA.04.02.20.X	20	45	18	25	X/JU	50 g
CA.04.02.20.L.X	20	75	18	25	X/JU	56 g
CA.04.02.30.X	30	70	34	35	JU	128 g



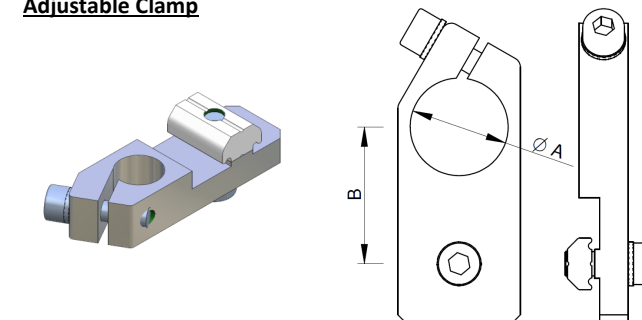
	A	B	C	D	M*	
CA.04.20.10.X	10					
CA.04.20.12.X	12	40	11	20	X	35 g
CA.04.20.14.X	14	46	14	25		45 g
CA.04.20.20.X	20	51,5	19	30	X/JU	65 g

Mountin Bracket



	A	B	C	D	E	M*	
CA.SCM.10.X	10,5						74 g
CA.SCM.12.X	12,5	40	40	32	3	X	73 g
CA.SCM.14.X	14,5					X/JU	72 g
CA.SCM.20.X	20,5						69 g

Adjustable Clamp

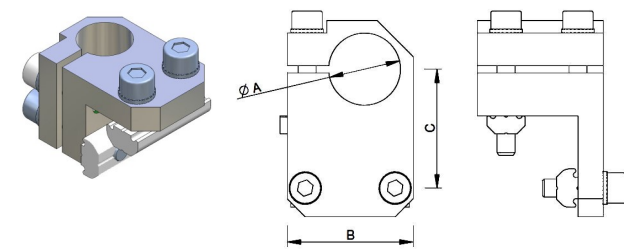


	A	B	M*	
CA.WST.10	10	21		23 g
CA.WST.14	14	24	X	25 g
CA.WST.20	20	28		36 g

For any further informa on, please refer to drawings on www.fps-eoat.it Drawings not to scale

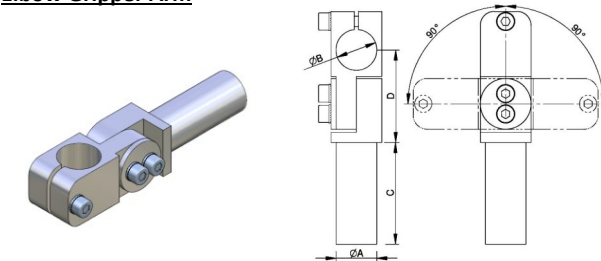
For any further informa on, please refer to drawings on www.fps-eoat.it Drawings not to scale

Clamp angle

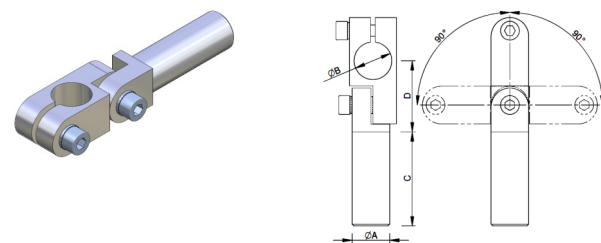


	A	B	C	M*	
CA.KSW.10.L	10	20	16	L	27 g
CA.KSW.10.X		25	19,5		57 g
CA.KSW.14.X	14		21,5	X	60 g
CA.KSW.20.X		32	24,5		80 g
CA.KSW.20.JU	20	35	33	JU	105 g
CA.KSW.30.JU	30	45	39		178 g

Elbow Gripper Arm

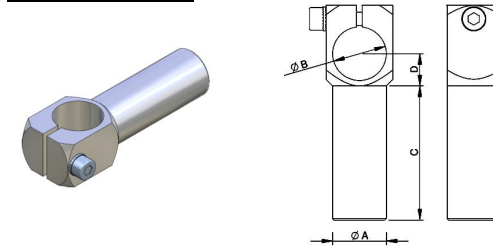


	A	B	C	D	
CA.GVR.1010.30	10	10	30	30	27 g
CA.GVR.1010.60			60		31 g
CA.GVR.1010.90			90		37 g
CA.GVR.1414.40	14	14	40	36	56 g
CA.GVR.1414.80			80		66 g
CA.GVR.1414.120			120		83 g
CA.GVR.2020.50	20	20	50	45,5	111 g
CA.GVR.2020.100			100		127 g
CA.GVR.2020.150			150		169 g
CA.GVR.3030.80	30	30	80	60	302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



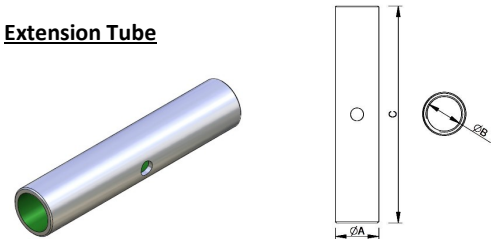
	A	B	C	D	
CA.GLA.1010.30	10	10	30	22	17 g
CA.GLA.1010.60			60		21 g
CA.GLA.1010.90			90		28 g
CA.GLA.1414.40	14	14	40	30	43 g
CA.GLA.1414.80			80		51 g
CA.GLA.1414.120			120		70 g
CA.GLA.2020.50	20	20	50	38	99 g
CA.GLA.2020.100			100		106 g
CA.GLA.2020.150			150		165 g
CA.GLA.2030	30	30	100	47	315 g
CA.GLA.3030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

Angle Gripper Arm



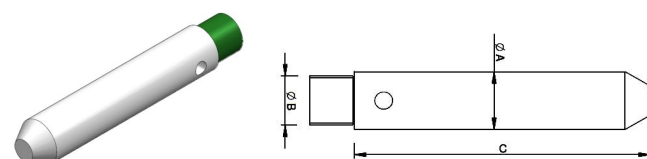
	A	B	C	D	
CA.WKA.10.10.30	10	10	30	8	13 g
CA.WKA.10.10.60			60		17 g
CA.WKA.10.10.90			90		22 g
CA.WKA.14.14.40	14	14	40	10	35 g
CA.WKA.14.14.80			80		48 g
CA.WKA.14.14.120			120		47 g
CA.WKA.20.20.50	20	20	50	12	78 g
CA.WKA.20.20.100			100		96 g
CA.WKA.20.20.150			150		136 g
CA.WKA.30.30.80	30	30	80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

Extension Tube



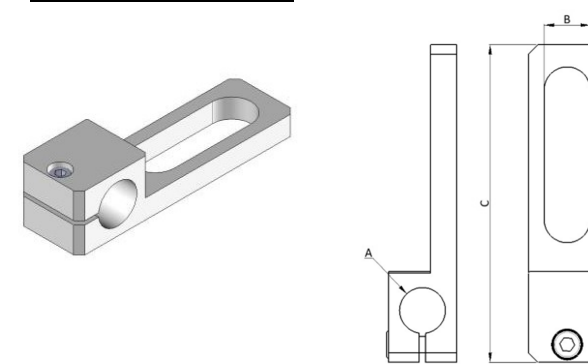
	A	B	C	
CA.VLR.10.30	10	M8X1	30	3 g
CA.VLR.10.60			60	6 g
CA.VLR.10.90			90	10 g
CA.VLR.14.40	14	M12X1	40	6 g
CA.VLR.14.80			80	13 g
CA.VLR.14.120			120	19 g
CA.VLR.20.30	20	M14X1	30	11 g
CA.VLR.20.50			50	15 g
CA.VLR.20.100	20	M17X1	100	31 g
CA.VLR.20.150			150	46 g
CA.VLR.30.80	30	M27X1	80	44 g
CA.VLR.30.140			140	78 g
CA.VLR.30.200			200	113 g
CA.VLR.30.600			600	413 g

Centering pin



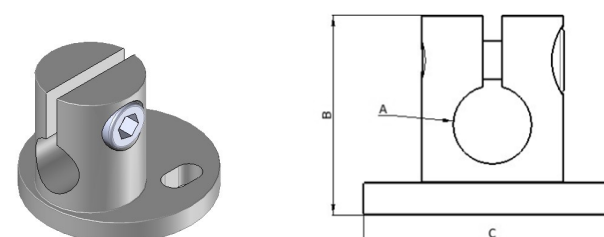
	A	B	C	M*	
CA.ZTB.1040	10	M8X1	40	CA.VLR.10	5 g
CA.ZTB.1060			60	CA.VLR.14	7 g
CA.ZTB.1460	14	M12X1	80	CA.VLR.20	16 g
CA.ZTB.1480			100	CA.VLR.30	18 g
CA.ZTB.20100	20	M17X1	100		47 g
CA.ZTB.30100	30	M27X1	100		104 g

Bracket tube - gripper arm



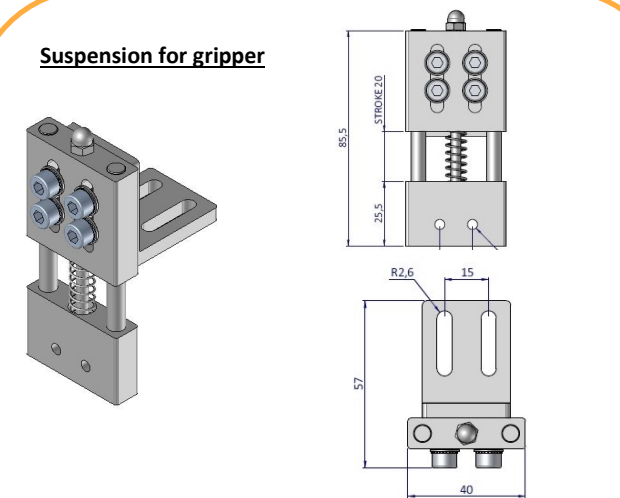
	A	B	C	
CA.STS.1010	10	10	73	24 g
CA.STS.1414	14	14	98	50 g
CA.STS.2020	20	20	113	100 g
CA.04.08.001	12	14	85	58 g
CA.04.08.002	16	20	100	67 g
CA.04.08.003	16	14	100	75 g
CA.04.08.004	12	10	79	33 g

Cross Connector Round Omega

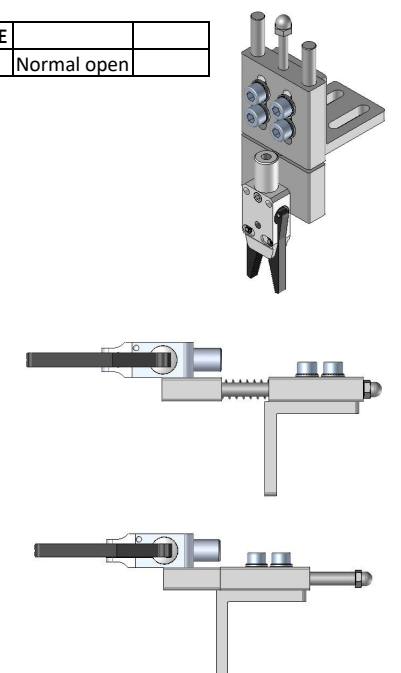


	A	B	C	
CA.03.06.005	12	31	40	32 g
CA.03.06.006	16	36,5	45	54 g
CA.03.06.007	20	46,3	58	100 g

Suspension for gripper

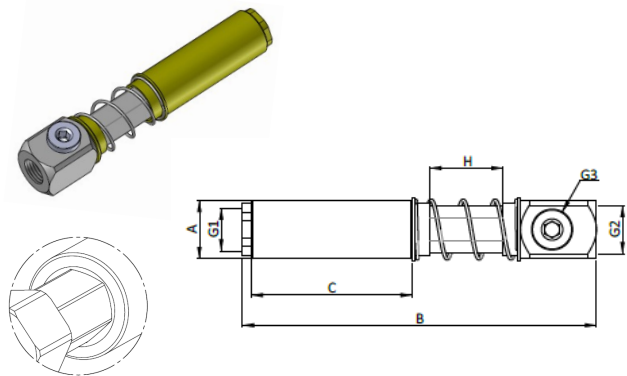


	STROKE	
CA.UCP.NO.20	20	Normal open



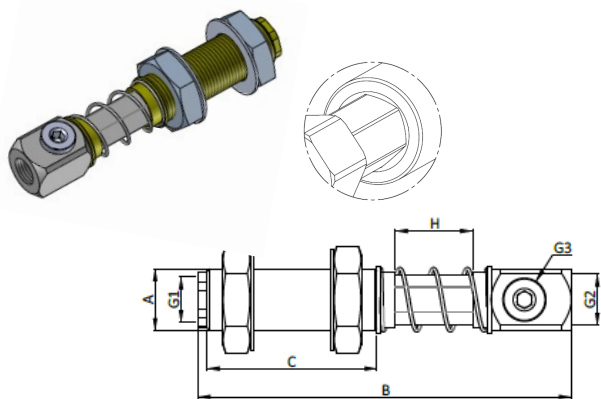
Non Rotati e Suspension

Smooth-body



	A	B	C	G1	G2	G3	H	
CA.SAE.10050510	10	59	25	M5	M5	-	10	25 g
CA.SAE.10050530		79	25	M5	M5	-	30	27 g
CA.SAE.14181815	14	83	32	M5	G 1/8	G 1/8	15	52 g
CA.SAE.14181840		108	32	M5	G 1/8	G 1/8	40	55 g
CA.SAE.20141825	20	121	55	G 1/8	G 1/4	G 1/8	25	137 g
CA.SAE.20141850		146	55	G 1/8	G 1/4	G 1/8	50	140 g
CA.SAE.201418100		208	55	G 1/8	G 1/4	G 1/8	100	193 g

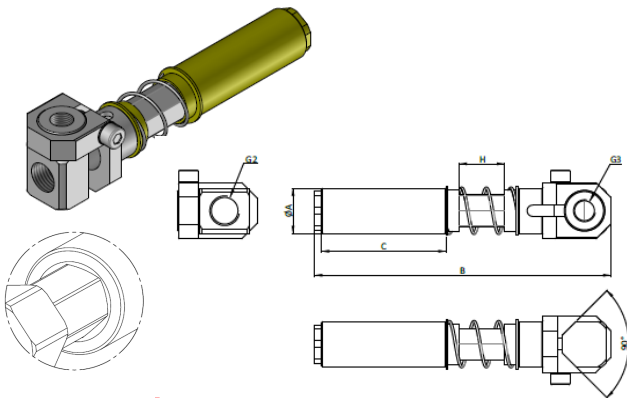
Threaded-body



	A	B	C	G1	G2	G3	H	
CA.SAEG.10050510	M10X1	59	25	M5	M5	-	10	30 g
CA.SAEG.10020530		79	25	M5	M5	-	30	32 g
CA.SAEG.14181815	M14X1,5	83	32	M5	G 1/8	G 1/8	15	63 g
CA.SAEG.14181840		108	32	M5	G 1/8	G 1/8	40	65 g
CA.SAEG.20141825	M20X1,5	121	55	G 1/8	G 1/4	G 1/8	25	170 g
CA.SAEG.20141850		146	55	G 1/8	G 1/4	G 1/8	50	173 g

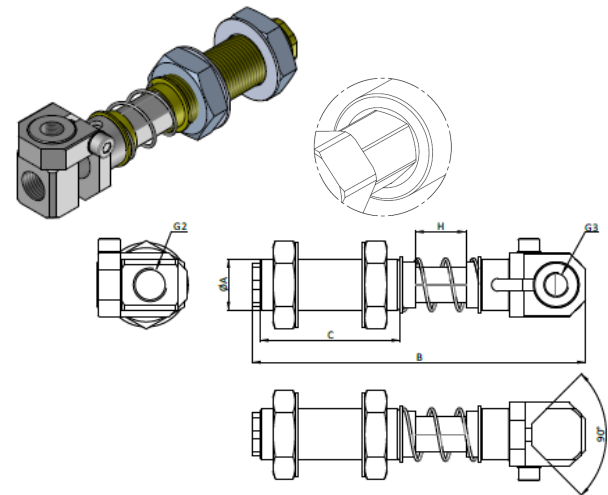
Non Rotati e Suspension With Swivel Head

Smooth-body



	A	B	C	G2	G3	H	
CA.SAS.10050510	10	76	25	M5	-	10	34 g
CA.SAS.10050530		96	25	M5	-	30	36 g
CA.SAS.14181815	14	94	32	G 1/8	G 1/8	15	59 g
CA.SAS.14181840		119	32	G 1/8	G 1/8	40	64 g
CA.SAS.20141825	20	131	55	G 1/4	G 1/8	25	155 g
CA.SAS.20141850		156	55	G 1/4	G 1/8	50	161 g

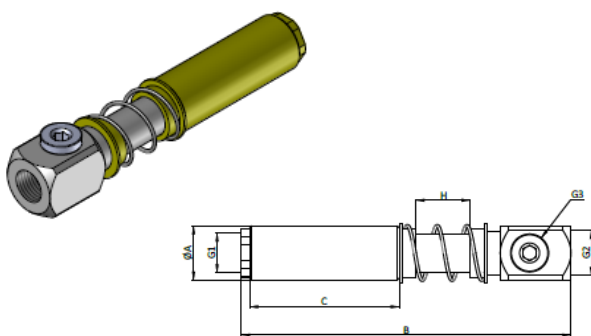
Threaded-body



	A	B	C	G2	G3	H	
CA.SASG.10050510	10	76	25	M5	-	10	39 g
CA.SASG.10050530		96	25	M5	-	30	44 g
CA.SASG.14181815	14	94	32	G 1/8	G 1/8	15	70 g
CA.SASG.14181840		119	32	G 1/8	G 1/8	40	90 g
CA.SASG.20141825	20	131	55	G 1/4	G 1/8	25	188 g
CA.SASG.20141850		156	55	G 1/4	G 1/8	50	191 g

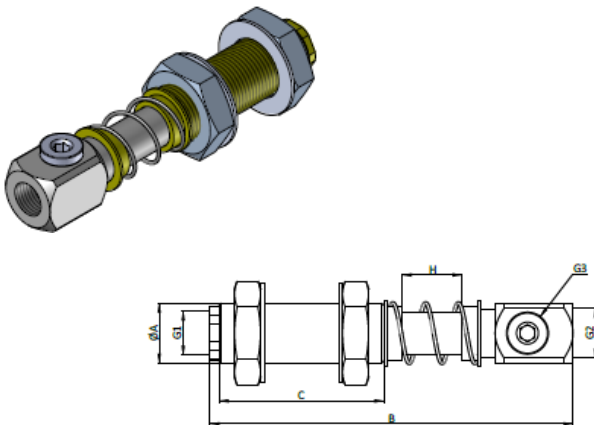
Rotati e Suspension

Smooth-body



	A	B	C	G1	G2	G3	H	
CA.SAR.10050510	10	59	25	M5	M5	-	10	28 g
CA.SAR.10050530		79	25	M5	M5	-	30	31 g
CA.SAR.14181815	14	83	32	M5	G 1/8	G 1/8	15	55 g
CA.SAR.14181840		108	32	M5	G 1/8	G 1/8	40	60 g
CA.SAR.20141825	20	121	55	G 1/8	G 1/4	G 1/8	25	137 g
CA.SAR.20141850		146	55	G 1/8	G 1/4	G 1/8	50	144 g

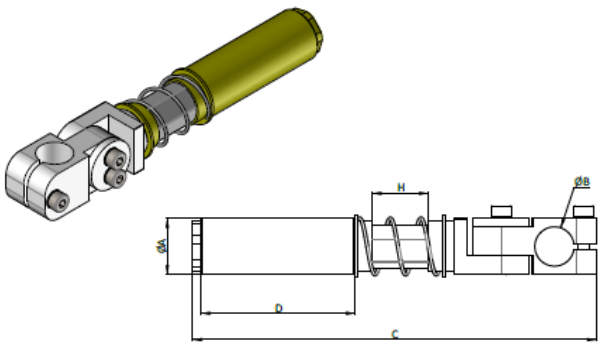
Threaded-body



	A	B	C	G1	G2	G3	H	
CA.SARG.10050510	M10X1	59	25	M5	M5	-	10	32 g
CA.SARG.10050530		79	25	M5	M5	-	30	35 g
CA.SARG.14181815	M14X1,5	83	32	M5	G 1/8	G 1/8	15	67 g
CA.SARG.14181840		108	32	M5	G 1/8	G 1/8	40	72 g
CA.SARG.20141825	M20X1,5	121	55	G 1/8	G 1/4	G 1/8	25	171 g
CA.SARG.20141850		146	55	G 1/8	G 1/4	G 1/8	50	187 g

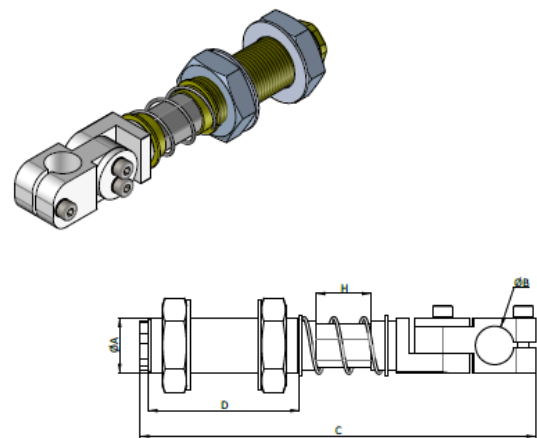
Suspension With Swivel For Grippers

Smooth-body



	A	B	C	D	H	
CA.SAM.141510	14	10	106	32	15	58 g
CA.SAM.144010			131	32	40	62 g
CA.SAM.202514	20	14	144	55	25	149 g
CA.SAM.202520		20	157			164 g
CA.SAM.205014		14	169	55	50	156 g
CA.SAM.205020		20	182			169 g

Threaded-body



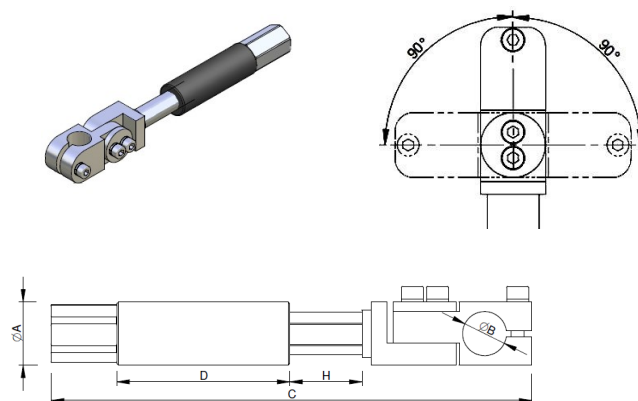
	A	B	C	D	H	
CA.SAMG.141510	14	10	106	32	15	69 g
CA.SAMG.202514	20	14	144	55	25	183 g
CA.SAMG.202520	20	20	157	55	25	198 g

For any further informa on, please refer to drawings on www.fps-eoat.it Drawings not to scale

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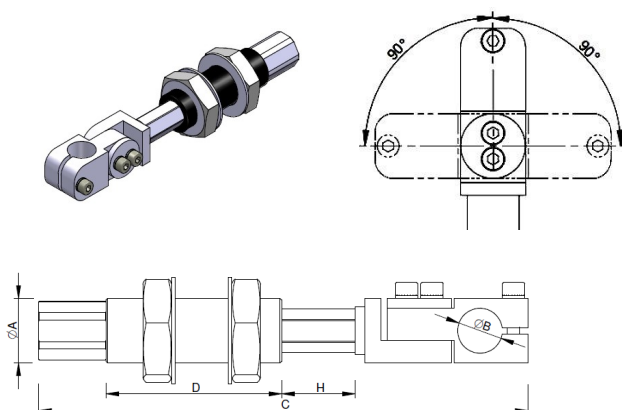
Suspension With Swivel For Grippers

Smooth-body



	A	B	C	D	H	F(N)	
CA.SMN.142010	14	10	128	42	20	8.9	43 g
CA.SMN.143510			160	60	35	9.5	50 g
CA.SMN.202514	20	14	153	55	25	11	95 g
CA.SMN.202520		20	166				111 g
CA.SMN.205014		14	208	82	50	11.4	115 g
CA.SMN.205020		20	219				130 g

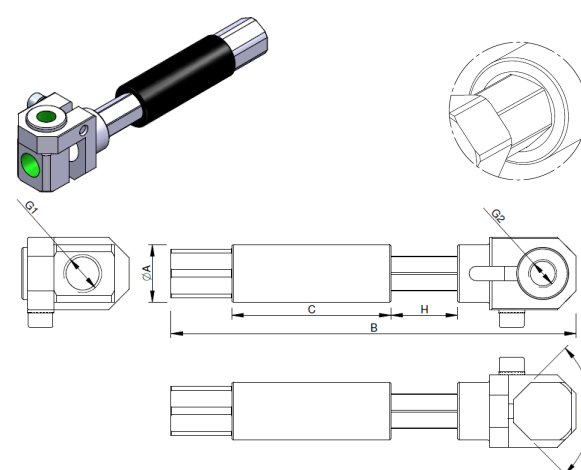
Threaded-body



	A	B	C	D	H	F(N)	
CA.SMNG.142010	M14X1.5	10	128	42	20	8.9	55 g
CA.SMNG.143510			160	60	35	9.5	61 g
CA.SMNG.202514	M20X1.5	14	153	55	25	11	130 g
CA.SMNG.205014			206	82	50	11.4	149 g
CA.SMNG.205020		20	221	82	50	11.4	162 g

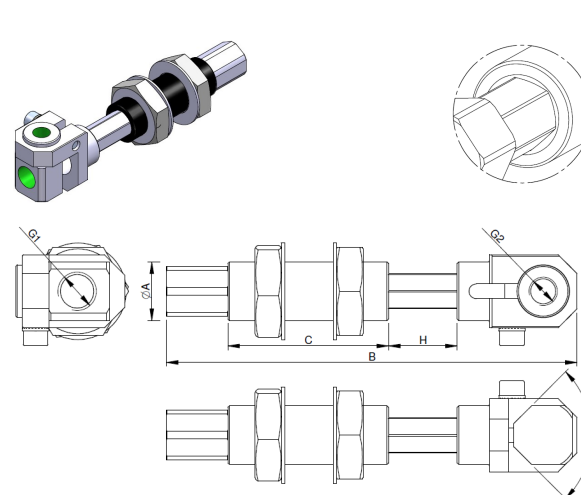
Non Rotati e Suspension With Swivel Head

Smooth-body



	A	B	C	G1	G2	H	F(N)	
CA.SSN.10100505	10	78	26	M5	M5	10	3.6	20 g
CA.SSN.10250505		108	41			25	3.7	23 g
CA.SSN.14201818	14	116	42	G 1/8	G 1/8	20	8.9	45 g
CA.SSN.14351818		148	60			35	9.5	51 g
CA.SSN.20251418	20	140	55	G 1/4	G 1/8	25	11	102 g
CA.SSN.20501418		193	82			50	11.4	121 g
CA.SSN.20251818		140	55	G 1/8		25	11	103 g
CA.SSN.20501818		193	82			50	11.4	122 g

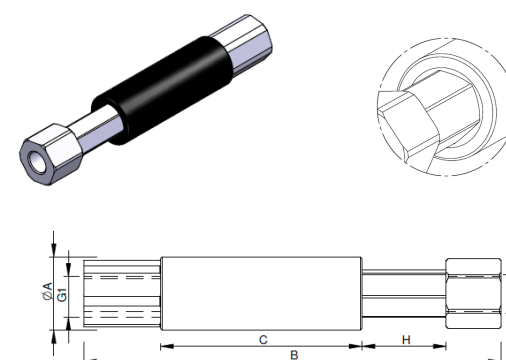
Threaded-body



	A	B	C	G1	G2	H	F(N)	
CA.SSNG.10100505	M10X1	78	26	M5	M5	10	3.6	25 g
CA.SSNG.10250505		108	41			25	3.7	28 g
CA.SSNG.14201818	M14X1.5	116	42	G 1/8	G 1/8	20	8.9	56 g
CA.SSNG.14351818		148	60			35	9.5	62 g
CA.SSNG.20251418	M20X1.5	140	55	G 1/4		25	11	136 g
CA.SSNG.20501418		193	82			50	11.4	154 g
CA.SSNG.20251818		G 1/8	140	55	25	11	137 g	
CA.SSNG.20501818			193	82	50	11.4	156 g	

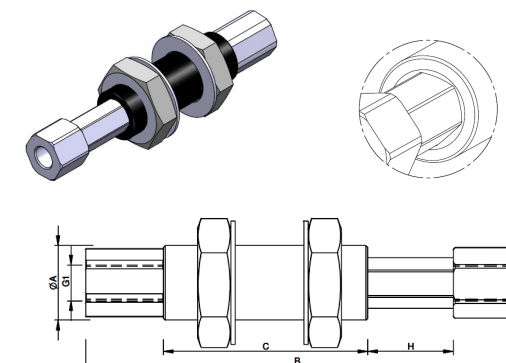
Non Rotati e Suspension

Smooth-body



	A	B	C	G1	G2	H	F(N)		
CA.SDN.1010	10	61	26	M5	M5	10	3.6	8	
CA.SDN.1025		91	41			25	3.7	11	
CA.SDN.1420	14	103	42	G 1/8	G 1/8	20	8.9	25	
CA.SDN.1435		135	60			35	9.5	32	
CA.SDN.2025	20	1	55	G 1/4	G1/4	25	11	63	
CA.SDN.2050		167	82			50	11.4	81	
CA.SDN.2025.14		114	55	G 1/4		25	11	59	
CA.SDN.2050.14		161	82			50	11.4	77	

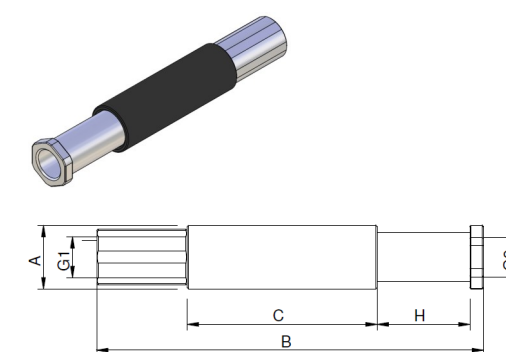
Threaded-body



	A	B	C	G1	G2	H	F(N)		
CA.SDNG.1010	M10X1	61	26	M5	M5	10	3.6	13	
CA.SDNG.1025		91	41			25	3.7	16	
CA.SDNG.1420	M14X1.5	103	42	G 1/8	G 1/8	20	8.9	36	
CA.SDNG.1435		135	60			35	9.5	42	
CA.SDNG.2025	M20X1.5	114	55	G 1/4	G 1/4	25	11	96	
CA.SDNG.2050		174	82			50	11.4	115	
CA.SDNG.2025.14		114	55	G 1/4		25	11	92	
CA.SDNG.2050.14		167	82			50	11.4	111	

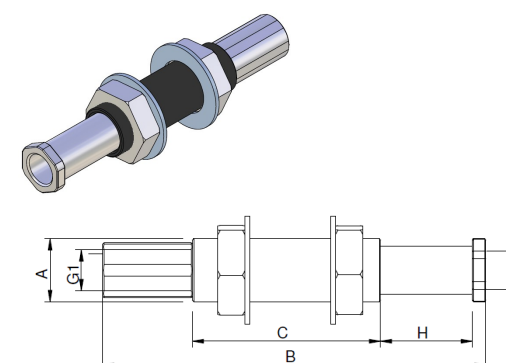
Rotati e Suspension

Smooth-body



	A	B	C	G1	G2	H	F(N)		
CA.SDR.1010	10	51	20	M5	M5	10	3.6	7	
CA.SDR.1025		86	40			25	3.7	11	
CA.SDR.1420	14	85	42	G 1/8	G 1/8	20	8.9	19	
CA.SDR.1435		120	62			35	9.5	26	
CA.SDR.2025	20	97	47		M10	G 1/4	25	11	54
CA.SDR.2050		147	72				50	11.4	74
CA.SDR.2025.14		107	47	G1/4	G1/4		25	11	56
CA.SDR.2050.14		157	72				50	11.4	76

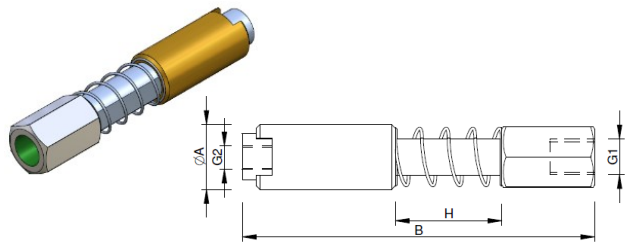
Threaded-body



	A	B	C	G1	G2	H	F(N)	
CA.SDRG.1010	M10X1	51	20	M5	M5	10	3.6	12 g
CA.SDRG.1025		86	40			25	3.7	16 g
CA.SDRG.1420	M14X1.5	85	42	G 1/8	G 1/8	20	8.9	30 g
CA.SDRG.1435		120	62			35	9.5	37 g
CA.SDRG.1620	M16X1	85		G 1/8	G 1/8	20	8.9	37 g
CA.SDRG.2025	M20X1.5	97	47			25	11	88 g
CA.SDRG.2050		147	72	G 1/4	G 1/4	50	11.4	108 g
CA.SDRG.2025.14		107	47			25	11	90 g
CA.SDRG.2050.14		157	72			50	11.4	110 g

Non Rotati e Suspension

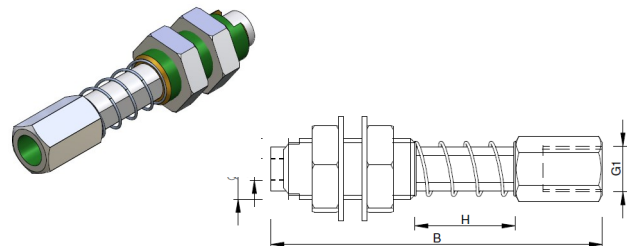
Smooth-body



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

	A	B	G1	G2	H	F(N)	
CA.05.02.006	Ø 12	59	M5	M5	10	16.6	31 g
CA.05.02.005		69			20	18.4	33 g
CA.05.02.008		67	G 1/8	M5	10	16.6	34 g
CA.05.02.007		77			20	18.4	36 g
CA.05.02.001	Ø 16	100	G 1/8	M5	38	23.3	76 g
CA.05.02.003		76			17	20.7	64 g

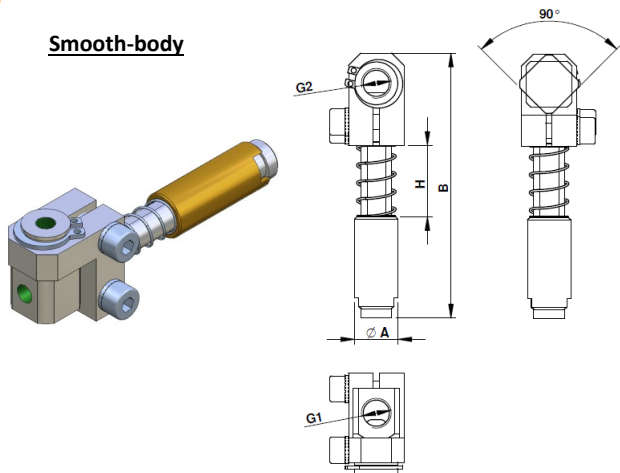
Threaded-body



	A	B	G1	G2	H	F(N)	
CA.05.01.001	M14x1.5	100	G 1/8	M5	38	23.2	71 g
CA.05.01.002	M20x1.5	125	G 1/4	G 1/8	48	16.7	189 g
CA.05.01.003	M14x1.5	76	G 1/8	M5	17	20.7	58 g
CA.05.01.004	M20x1.5	100	G 1/4	G 1/8	25	18.4	163 g
CA.05.01.005	M10x1	70	M5		20	3.4	36 g
CA.05.01.005.6N						6	
CA.05.01.006		59			10	4.8	33 g
CA.05.01.006.6N						6	
CA.05.01.008	M12X1.25	59		M5	10	6	35 g
CA.05.01.009		77			20	6	40 g
CA.05.01.010	M16x1.5	76	G 1/8		17	20.7	56 g
CA.05.01.011		97			38	23.2	95 g
CA.05.01.50	M14x1.5	123			50	17	81 g
CA.05.01.75		153			75	19	91 g
CA.05.01.100		193			100	18	95 g

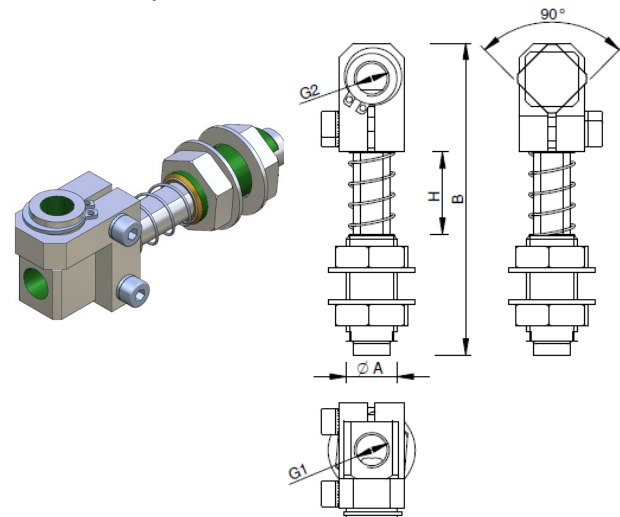
Non Rotati e Suspension With Swivel Head

Smooth-body



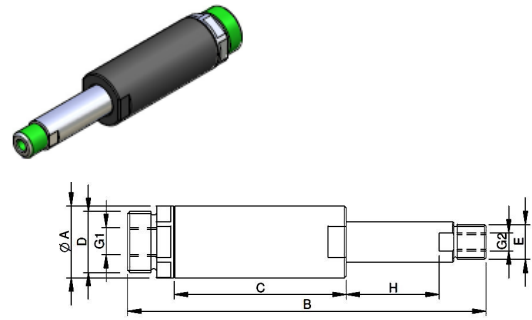
	A	B	G1	G2	H	F(N)	
CA.GGS100515	Ø 10	69	M5	M5	10	3.6	37 g
CA.GGS100515.6N		69			10	6	37 g
CA.GGS100520		79			20	3.4	40 g
CA.GGS100520.6N		79			20	6	40 g
CA.GGS100530	Ø 12	98			30	8.6	45 g
CA.GGS120515		69			10	6	45 g
CA.GGS141815	Ø 14	86	G 1/8		17	20.7	82 g
CA.GGS141840		110			38	23.3	89 g
CA.GGS161815	Ø 16	86		G 1/8	17	20.7	84 g
CA.GGS161840		110			38	23.3	97 g
CA.GGS201425	Ø 20	116	G 1/4		23	18.4	196 g
CA.GGS201445		141			45	16.7	206 g

Threaded-body



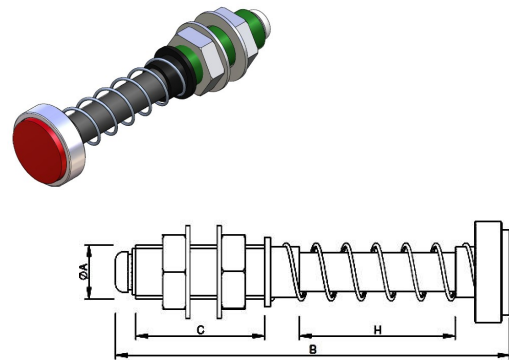
	A	B	G1	G2	H	F(N)	
CA.GGSM100515	M10X1	69	M5	M5	10	3.4	42 g
CA.GGSM100515.6N		69			10	6	42 g
CA.GGSM100520		79			20	3.4	45 g
CA.GGSM100520.6N		79			20	6	45 g
CA.GGSM100530	M14X1.5	98			30	8.6	50 g
CA.GGSM141815		86			17	20.7	85 g
CA.GGSM141840	M20X1.5	110	G 1/8	G 1/8	38	23.3	101 g
CA.GGSM201425		116			23	18.4	216 g
CA.GGSM201445		141	G 1/4		45	16.7	242 g

Telescopic self-retractin suspension



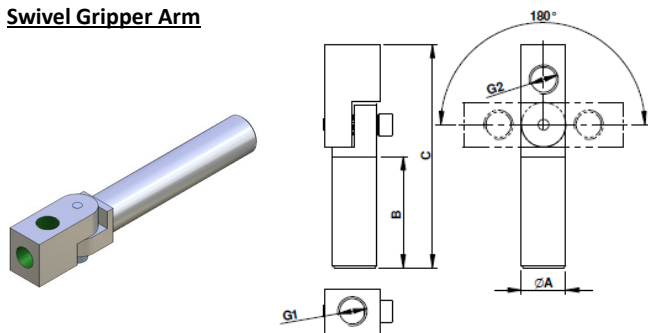
	A	B	C	D	E	G1	G2	H	F(N)	
CA.SAR.2025	20	100	48	M17x1	G 1/8	G 1/8	M5	25	3.6	42 g
CA.SAR.2050		150	73					50	4.2	68 g

Spring rod



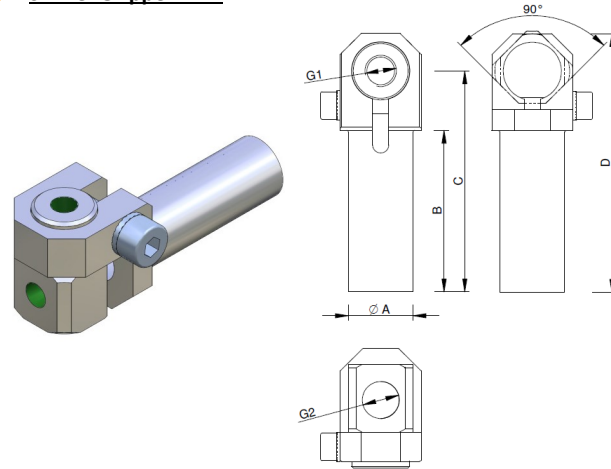
	A	B	C	H	
CA.VSX.1440	M14X1.5	101	42	40	47 g

Swivel Gripper Arm



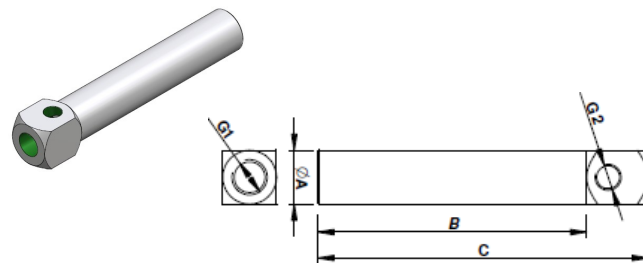
	A	B	C	G1	G2	
CA.GGE.10.M5.M5	10	60	90	M5	M5	22 g
CA.GGE.14.18.18	14	80	120	G 1/8		42 g
CA.GGE.20.14.18		100	150		G 1/8	85 g
CA.GGE.20.14.14						84 g
CA.GGE.201414150	20	150	200	G 1/4	G 1/4	122 g
CA.GGE.201818150				G 1/8	G 1/8	124 g

Swivel Gripper Arm



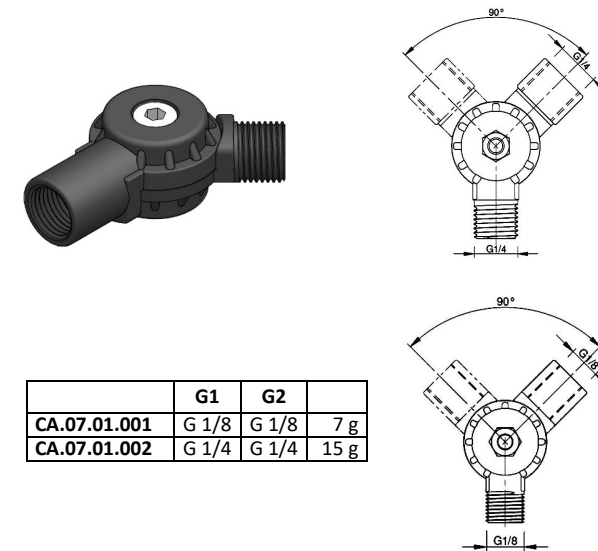
	A	B	C	D	G1	G2	
CA.GGB.10050530		30	41	48			14 g
CA.GGB.10050560	10	60	71	78	M5	M5	17 g
CA.GGB.10050590		90	101	108			20 g
CA.GGB.14181840		40	56	65			29 g
CA.GGB.14181880	14	80	96	105	G 1/8	G 1/8	38 g
CA.GGB.141818120		120	136	145			45 g
CA.GGB.20141850		50	68	80			56 g
CA.GGB.201418100		100	118	130	G 1/8		70 g
CA.GGB.201418150		150	168	180		G 1/4	87 g
CA.GGB.20141450		50	68	80			55 g
CA.GGB.201414100	20	100	118	130	G 1/4		69 g
CA.GGB.201414150		150	168	180		G 1/4	86 g
CA.GGB.20181850		50	68	80			56 g
CA.GGB.201818100		100	118	130	G 1/8	G 1/8	70 g
CA.GGB.201818150		150	168	180			87 g

Gripper Arm



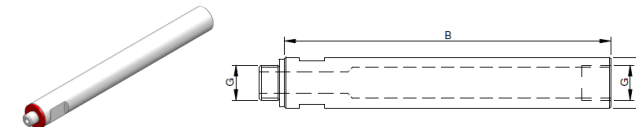
	A	B	C	G1	G2	
CA.GSE.1018M530		30	52			15 g
CA.GSE.1018M560		60	82	G 1/8		18 g
CA.GSE.1018M590	10	90	112		M5	25 g
CA.GSE.10M5M530		30	46			9 g
CA.GSE.10M5M560		60	76	M5		15 g
CA.GSE.10M5M590		90	106			24 g
CA.GSE.14181840		40	62			18 g
CA.GSE.14181880	14	80	102	G 1/8		30 g
CA.GSE.141818120		120	142		G 1/8	43 g
CA.GSE.20141850		50	73			44 g
CA.GSE.201418100	20	100	123			63 g
CA.GSE.201418150		150	173		G 1/4	78 g
CA.GSE.30141480		80	108			155 g
CA.GSE.301414140	30	140	168		G 1/4	219 g
CA.GSE.301414200		200	228			283 g

Elbow arm



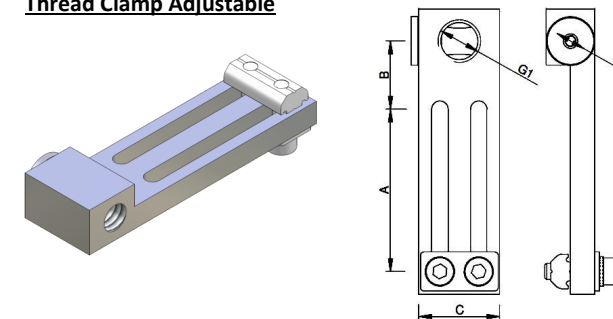
	G1	G2	
CA.07.01.001	G 1/8	G 1/8	7 g
CA.07.01.002	G 1/4	G 1/4	15 g

Extension tube with air lead



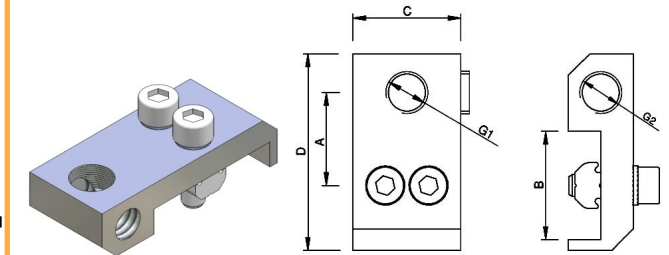
	A	B	G	
CA.GSEG.100515		15		3 g
CA.GSEG.100530		30		6 g
CA.GSEG.100545	10	45	M5	9 g
CA.GSEG.100590		90		16 g
CA.GSEG.120545		45		12 g
CA.GSEG.120590	12	90		24 g
CA.GSEG.141815		15		5 g
CA.GSEG.141830		30		10 g
CA.GSEG.141845	14	45	G 1/8	14 g
CA.GSEG.141890		90		26 g
CA.GSEG.201445		45		30 g
CA.GSEG.201490	20	90	G 1/4	58 g

Thread Clamp Adjustable



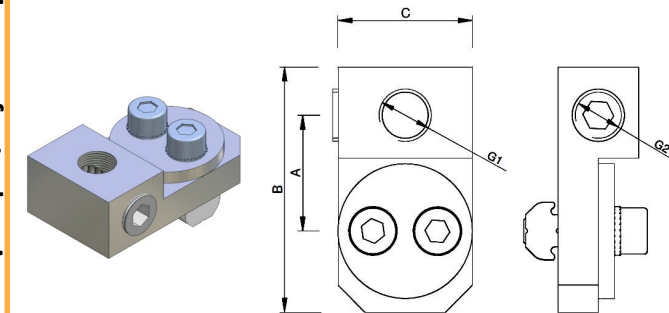
	A	B	C	G1	G2	M*	
CA.WLS.18.M5.X	45	24	25	G 1/8	M5	L/X	65 g
CA.WLS.M5.M5.X	40	14	16	M5	M5	L/X	24 g
CA.WLS.18.18.X				G 1/8		X/JU	65 g
CA.WLS.14.18.X	50	21	25	G 1/4			
CA.WLS.14.14.JU		23			G 1/4	JU	73 g

Threadclamp fixed



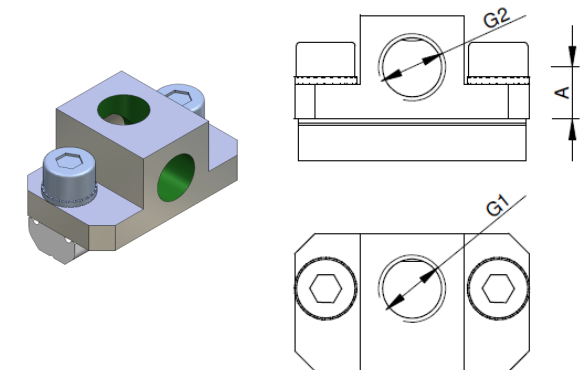
	A	B	C	D	G1	G2	M*	
CA.WSS.L.M5.M5	17	18	16	32	M5	M5	L	18 g
CA.WSS.X.18.18		22	25	46	G 1/8		X	46 g
CA.WSS.X.14.18			25	60	G 1/4			
CA.WSS.JU.14.18	29	40					JU	49 g

Adjustable connector for Vacuum Cups



	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	G 1/8		X	44 g
CA.WSD.X.14.18			25	G 1/4	G 1/8		

Clamp for Vacuum Cups

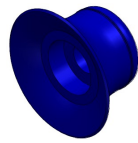


	A	G1	G2	M*	
CA.SGB.5.5.X	4	M5	M5	L	27 g
CA.SGB.18.18.X	7.5	G 1/8	G 1/8		35 g
CA.SGB.14.14.X	10	G 1/4	G 1/4	X/JU	39 g

For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

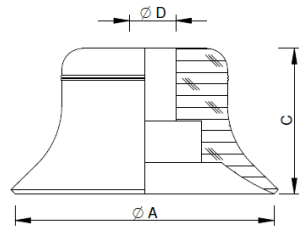
For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

Vacuum Cup with 1 bellow only



HT1 SERIES

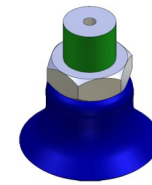
	A	C	D	F(N)	
CA.08.29.001	Ø5	6.5	Ø4	0.75	0.2 g
CA.08.29.002	Ø6			1.2	
CA.08.29.003	Ø8	7		2.3	
CA.08.29.004	Ø10	7.5		4	
CA.08.29.005	Ø15	8	Ø4.5	9	
CA.08.29.006	Ø20	10		15.5	
CA.08.29.007	Ø25	14		26.5	2.4 g
CA.08.29.008	Ø30	12	Ø6	34	3.5 g
CA.08.29.009	Ø35	14		44	5.9 g
CA.08.29.010	Ø40			57.7	7.6 g
CA.08.29.011	Ø50	15	Ø8	91	10.6 g
CA.08.29.012	Ø60	18	M10x1.25	125	24.2 g
CA.08.29.013	Ø80	20.5		260	51.2 g



SILICONE SERIES

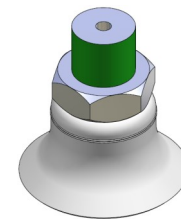
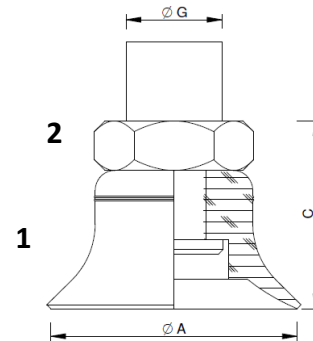
	A	C	D	F(N)	
CA.08.28.001	Ø5	6.5	Ø4	0.75	1 g
CA.08.28.002	Ø6			1.2	
CA.08.28.003	Ø8	7		2.3	
CA.08.28.004	Ø10	7.5		4	
CA.08.28.005	Ø15	8	Ø4.5	9	
CA.08.28.006	Ø20	10		15.5	
CA.08.28.007	Ø25	14		26.5	2 g
CA.08.28.008	Ø30	12	Ø6	34	3 g
CA.08.28.009	Ø35	14		44	5 g
CA.08.28.010	Ø40			57.7	7 g
CA.08.28.011	Ø50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

Vacuum Cup with 1 bellow (complete)



HT1 SERIES

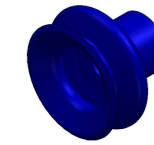
	1	2	A	C	G	
KIT.08.29.D05	CA.08.29.001	CA.08.09.014	Ø5	9.5	M5	5 g
KIT.08.29.D06	CA.08.29.002		Ø6			
KIT.08.29.D08	CA.08.29.003		Ø8	12		
KIT.08.29.D10	CA.08.29.004		Ø10	12.5		
KIT.08.29.D15	CA.08.29.005	CA.08.09.015	Ø15	13.3	G 1/8	6 g
KIT.08.29.D20	CA.08.29.006	CA.08.09.016	Ø20	15		
KIT.08.29.D25	CA.08.29.007		Ø25	19		
KIT.08.29.D30	CA.08.29.008	CA.08.09.017	Ø30	17		
KIT.08.29.D35	CA.08.29.009		Ø35	19	G 1/4	24 g
KIT.08.29.D40	CA.08.29.010		Ø40			
KIT.08.29.D50	CA.08.29.011	CA.08.09.018	Ø50	20		
KIT.08.29.D60	CA.08.29.012	CA.08.09.019	Ø60	23		
KIT.08.29.D80	CA.08.29.013		Ø80	25		43 g



SILICONE SERIES

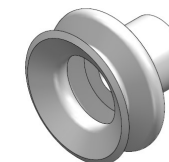
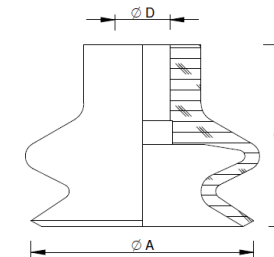
	1	2	A	C	G	
KIT.08.28.D05	CA.08.28.001	CA.08.09.014	Ø5	9.5	M5	6 g
KIT.08.28.D06	CA.08.28.002		Ø6			
KIT.08.28.D08	CA.08.28.003		Ø8	12		
KIT.08.28.D10	CA.08.28.004		Ø10	12.5		
KIT.08.28.D15	CA.08.28.005	CA.08.09.015	Ø15	13.3	G 1/8	
KIT.08.28.D20	CA.08.28.006	CA.08.09.016	Ø20	15		
KIT.08.28.D25	CA.08.28.007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

Vacuum Cup with 2 bellows only



HT1 SERIES

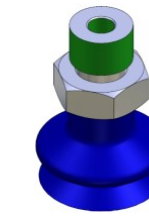
	A	C	D	F(N)	
CA.08.31.012	Ø6	9	Ø3.7	0.4	0.2 g
CA.08.31.001	Ø11	16	Ø4.5	1.2	
CA.08.31.002	Ø14			1.2	
CA.08.31.003	Ø16	19.2		2.3	1.2 g
CA.08.31.004	Ø20	15.2	Ø4.5	4.7	1.7 g
CA.08.31.005	Ø22	19		5.7	2 g
CA.08.31.006	Ø25	23		5.3	
CA.08.31.007	Ø33	27		13.6	6.8 g
CA.08.31.008	Ø43	27.6	Ø8	22.8	11 g
CA.08.31.009	Ø53			51.3	18.3 g
CA.08.31.010	Ø63	34		85	23.8 g
CA.08.31.011	Ø78	47	Ø12	137	55.6 g



SILICONE SERIES

	A	C	D	F(N)	
CA.08.30.012	Ø6	9	Ø3.7	1.5	1 g
CA.08.30.001	Ø11	16	Ø4.5	1.2	
CA.08.30.002	Ø14			1.2	
CA.08.30.003	Ø16	19		2.3	1 g
CA.08.30.004	Ø20	15	Ø4.5	4.7	1.5 g
CA.08.30.005	Ø23	23		5.3	3 g
CA.08.30.006	Ø25	27		13.6	7 g
CA.08.30.007	Ø43	28		23	11 g
CA.08.30.008	Ø53	34	Ø8	51	19 g
CA.08.30.009	Ø63			85	24 g
CA.08.30.010	Ø78	47	Ø12	137	56 g

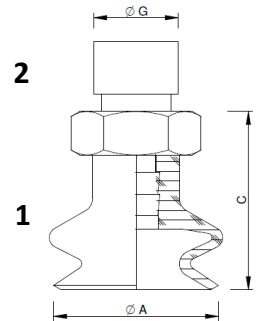
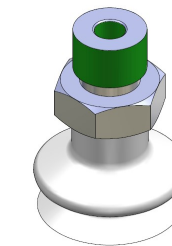
Vacuum Cup with 2 bellows (complete)



HT1 SERIES

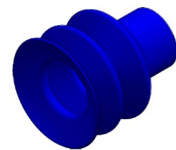
	1	2	A	C	G	
KIT.08.31.D06.14	CA.08.31.012	CA.08.09.014	Ø6	14	M5	2 g
KIT.08.31.D11.4	CA.08.31.001	CA.08.09.004	Ø11	20.5	M5	2 g
KIT.08.31.D11.9		CA.08.09.009		21	G1/8	4 g
KIT.08.31.D14.4	CA.08.31.002	CA.08.09.004	Ø14	20.5	M5	2 g
KIT.08.31.D14.9		CA.08.09.009		21	G1/8	4 g
KIT.08.31.D16.4	CA.08.31.003	CA.08.09.004	Ø16	23.5	M5	4 g
KIT.08.31.D16.9		CA.08.09.009		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.08.09.009		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.08.09.009		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.08.09.009		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.08.09.021		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.08.09.021		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.08.09.021		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		47 g

SILICONE SERIES



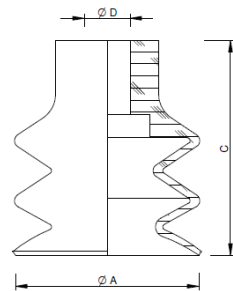
	1	2	A	C	G	
KIT.08.30.D06.14	CA.08.30.012	CA.08.09.014	Ø6	14	M5	2 g
KIT.08.30.D11.4	CA.08.30.001	CA.08.09.004	Ø11	20.5	M5	2 g
KIT.08.30.D11.9		CA.08.09.009		21	G1/8	4 g
KIT.08.30.D14.4	CA.08.30.002	CA.08.09.004	Ø14	20.5	M5	2 g
KIT.08.30.D14.9		CA.08.09.009		21	G1/8	4 g
KIT.08.30.D16.4	CA.08.30.003	CA.08.09.004	Ø16	23.5	M5	4 g
KIT.08.30.D16.9		CA.08.09.009		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.08.09.009		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.08.09.009		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.08.09.021		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.08.09.021		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.08.09.021		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.08.09.021		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



HT1 SERIES

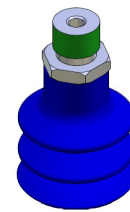
	A	C	D	F(N)	
CA.08.32.D09	Ø9	15	Ø4	0.7	2 g
CA.08.32.D12	Ø12	21		0.9	3 g
CA.08.32.D14	Ø14	23		1.2	4 g
CA.08.32.D20	Ø20	22		3.8	6 g
CA.08.32.D25	Ø25	34	Ø8	4.5	7 g
CA.08.32.D32	Ø32	37		12	8 g
CA.08.32.D42	Ø42	46		13.6	10 g
CA.08.32.D52	Ø52	49		28.5	25 g
CA.08.32.D62	Ø62	54		41	39 g



SILICONE SERIES

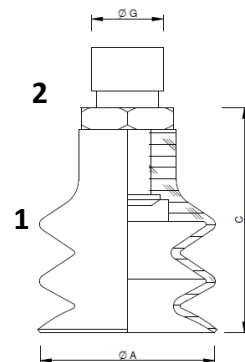
	A	C	D	F(N)	
CA.08.33.D5	Ø5	14	Ø3.5	0.15	1 g
CA.08.33.D7	Ø7			0.1	
CA.08.33.D9	Ø9	15		0.68	
CA.08.33.D12	Ø12	21		0.9	
CA.08.33.D14	Ø14	23	Ø4	1.2	4 g
CA.08.33.D20	Ø20	22		3.8	6 g
CA.08.33.D25	Ø25	34		4.5	7 g
CA.08.33.D32	Ø32	37		12.0	8 g
CA.08.33.D42	Ø42	46	Ø8	13.6	10 g
CA.08.33.D52	Ø52	49		27	20 g
CA.08.33.D60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

Vacuum Cup with 3 bellows (complete)



HT1 SERIES

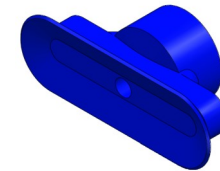
	1	2	A	C	G	
KIT.08.32.D09.26	CA.08.32.D09	CA.08.09.026	Ø9	20	M5	3 g
KIT.08.32.D12.4	CA.08.32.D12	CA.08.09.004	Ø12	25.5	M5	4 g
KIT.08.32.D12.9	CA.08.32.D12	CA.08.09.009	Ø12	26	G1/8	6 g
KIT.08.32.D14.4	CA.08.32.D14	CA.08.09.004	Ø14	27.5	M5	5 g
KIT.08.32.D14.9	CA.08.32.D14	CA.08.09.009	Ø14	28	G1/8	7 g
KIT.08.32.D20.4	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
KIT.08.32.D52.21	CA.08.32.D52	CA.08.09.021	Ø52	64	G1/4	33 g
KIT.08.32.D62.21	CA.08.32.D62	CA.08.09.021	Ø62	59	G1/4	50 g



SILICONE SERIES

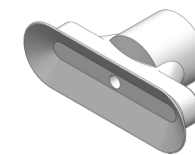
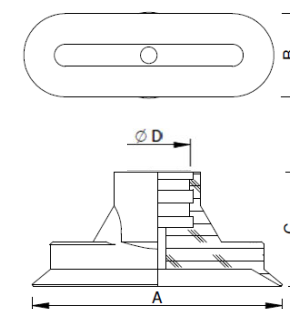
	1	2	A	C	G	
KIT.08.33.D5.25	CA.08.33.D5	CA.08.09.025	Ø5	18.5		2 g
KIT.08.33.D7.26	CA.08.33.D7	CA.08.09.026	Ø7	19	M5	
KIT.08.33.D9.26	CA.08.33.D9	CA.08.09.026	Ø9	20		3 g
KIT.08.33.D12.4	CA.08.33.D12	CA.08.09.004	Ø12	25.5	M5	4 g
KIT.08.33.D12.9	CA.08.33.D12	CA.08.09.009	Ø12	26	G1/8	6 g
KIT.08.33.D14.4	CA.08.33.D14	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 oval only



HT1 SERIES

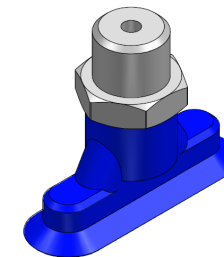
	A	B	C	D	F(N)	
CA.08.39.001	12	4	15	Ø4	1.8	0.5 g
CA.08.39.002	15	5		Ø4.5	3.1	
CA.08.39.003	18	6			4.5	
CA.08.39.004	24	8	12	Ø7	8	1.0 g
CA.08.39.005	30	10			12.2	1.1 g
CA.08.39.006	45	15			28.2	3.4 g
CA.08.39.007	60	20	21	Ø13	50.1	6.4 g
CA.08.39.008	75	25			78.3	17.9 g



SILICONE SERIES

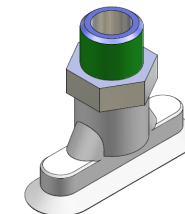
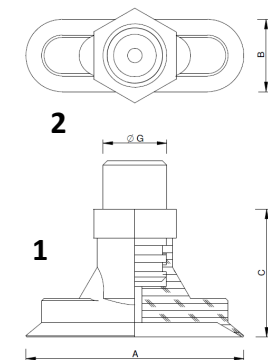
	A	B	C	D	F(N)	
CA.08.40.001	12	4	15	Ø4	1.8	0.5 g
CA.08.40.002	15	5		Ø4.5	3.1	
CA.08.40.003	18	6			4.5	
CA.08.40.004	24	8	12	Ø7	8	1.0 g
CA.08.40.005	30	10			12.2	1.1 g
CA.08.40.006	45	15			28.2	3.4 g
CA.08.40.007	60	20	21	Ø13	50.1	6.4 g
CA.08.40.008	75	25			78.3	17.8 g

Vacuum Cup oval (complete)



HT1 SERIES

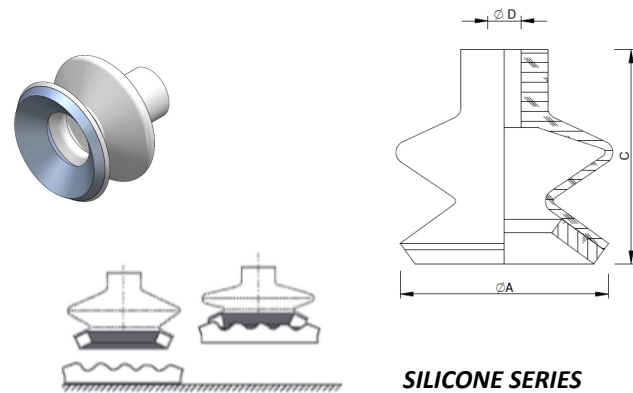
	1	2	A	B	C	G	
KIT.08.39.L12.40	CA.08.39.001	CA.08.09.040	12	4	18	M5	2.9 g
KIT.08.39.L15.28	CA.08.39.002	CA.08.09.028	15	5	17		3.4 g
KIT.08.39.L18.28	CA.08.39.003	CA.08.09.028	18	6	17		3.7 g
KIT.08.39.L24.27	CA.08.39.004	CA.08.09.027	24	8	17	G 1/8	6.7 g
KIT.08.39.L30.27	CA.08.39.005	CA.08.09.027	30	10	17		6.8 g
KIT.08.39.L45.41	CA.08.39.006		45	15	26	G 1/4	14.8 g
KIT.08.39.L60.41	CA.08.39.007	CA.08.09.041	60	20	26		19 g
KIT.08.39.L75.41	CA.08.39.008		75	25	26		26.9 g



SILICONE SERIES

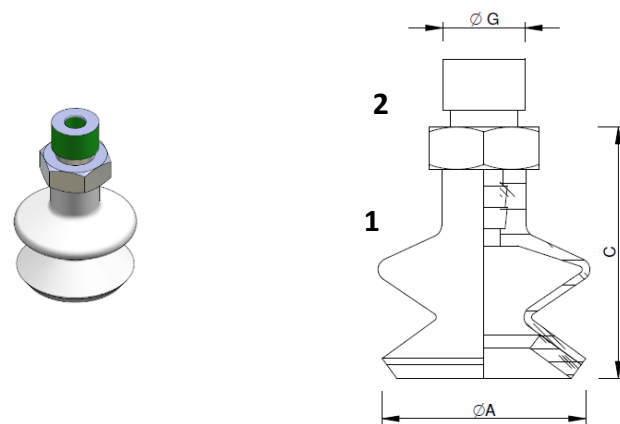
	1	2	A	B	C	G	
KIT.08.40.L12.40	CA.08.40.001	CA.08.09.040	12	4	18	M5	2.9 g
KIT.08.40.L15.28	CA.08.40.002	CA.08.09.028	15	5	17		3.4 g
KIT.08.40.L18.28	CA.08.40.003	CA.08.09.028	18	6	17		3.7 g
KIT.08.40.L24.27	CA.08.40.004	CA.08.09.027	24	8	17	G 1/8	6.7 g
KIT.08.40.L30.27	CA.08.40.005	CA.08.09.027	30	10	17		6.8 g
KIT.08.40.L45.41	CA.08.40.006		45	15	26	G 1/4	14.8 g
KIT.08.40.L60.41	CA.08.40.007	CA.08.09.041	60	20	26		19 g
KIT.08.40.L75.41	CA.08.40.008		75	25	26		26.9 g

Vacuum Cup with 2 bellows and foam strip



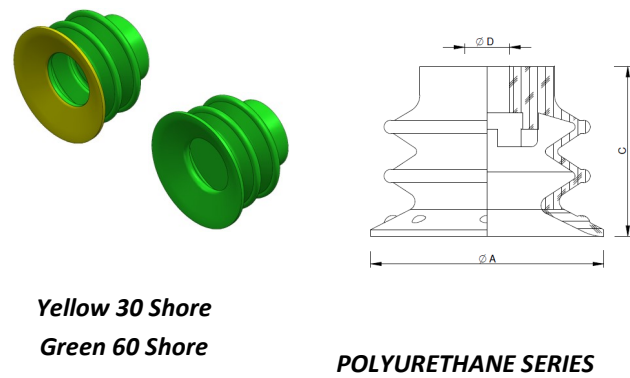
	A	C	D	F(N)	
CA.08.26.D16.AS	Ø16	21	Ø3.8	7	2 g
CA.08.26.D20.AS	Ø20	18		9	
CA.08.26.D25.AS	Ø25	25	Ø8	11	3 g
CA.08.26.D33.AS	Ø33	29		19.2	7 g
CA.08.26.D43.AS	Ø43	32		28	13 g
CA.08.26.D53.AS	Ø53	38		59	22 g
CA.08.26.D63.AS	Ø63	37	Ø12	82	26 g
CA.08.26.D78.AS	Ø78	51		152	51 g

Vacuum Cup with 2 bellows and foam strip (complete)



	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	G 1/8	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	G 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	G 1/8	6 g
KIT.08.26.D33.11	CA.08.26.D33.AS	CA.08.09.011	Ø33	35.3	G 1/8	11 g
KIT.08.26.D33.21	CA.08.26.D33.AS	CA.08.09.021	Ø33	33	G 1/4	15 g
KIT.08.26.D43.11	CA.08.26.D43.AS	CA.08.09.011	Ø43	38.3	G 1/8	17 g
KIT.08.26.D43.21	CA.08.26.D43.AS	CA.08.09.021	Ø43	36	G 1/4	21 g
KIT.08.26.D53.11	CA.08.26.D53.AS	CA.08.09.011	Ø53	44.3	G 1/8	26 g
KIT.08.26.D53.21	CA.08.26.D53.AS	CA.08.09.021	Ø53	42	G 1/4	30 g
KIT.08.26.D63.11	CA.08.26.D63.AS	CA.08.09.011	Ø63	43.3	G 1/8	30 g
KIT.08.26.D63.21	CA.08.26.D63.AS	CA.08.09.021	Ø63	41	G 1/4	34 g
KIT.08.26.D78.24	CA.08.26.D78.AS	CA.08.09.024	Ø78	57	G 1/4	57 g

Vacuum Cup with 3 bellows only

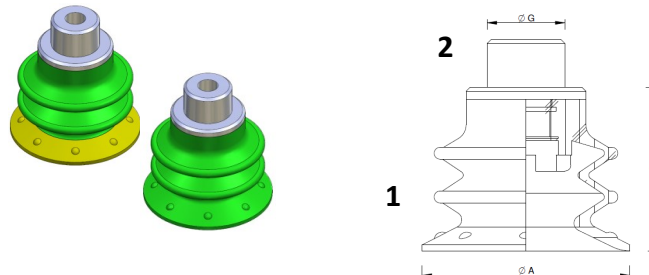


Yellow 30 Shore
Green 60 Shore

POLYURETHANE SERIES

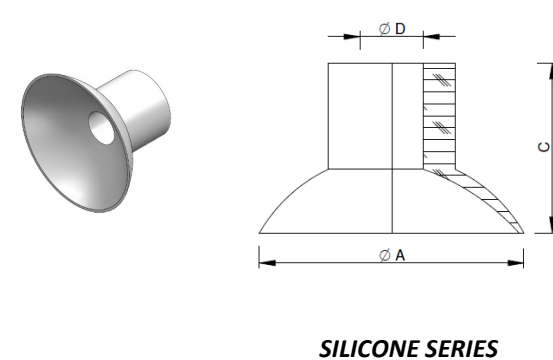
	Sh	A	C	D	Cod. PIAB	F(N)	
CA.08.36.D10	30/60	Ø10	16.5	Ø3.8	0118329	3.7	1 g
CA.08.36.D10.60	60				0122966		
CA.08.36.D15	30/60	Ø15	18.5		0118505	4.5	
CA.08.36.D15.60	60				0124237		
CA.08.36.D20	30/60	Ø20	16.2	Ø5	0118507	6	3 g
CA.08.36.D20.60	60				0124249	9.5	
CA.08.36.D25	30/60	Ø25	19		0109006	18	
CA.08.36.D25.60	60				0108240		
CA.08.36.D35	30/60	Ø35	26.8	Ø6.5	0106292	28	8 g
CA.08.36.D35.60	60				0107477	30	
CA.08.36.D52	30/60	Ø52	39	Ø12	0104529	75	24 g
CA.08.36.D52.60	60				0107381	80	
CA.08.36.D75	30/60	Ø75	51.7	/	0107145	141	71 g
CA.08.36.D75.60	60			/	0107150	166	

Vacuum Cup with 3 bellows (complete)



	1	2	Cod. PIAB	A	C	G	
KIT.08.36.D10	CA.08.36.D10	CA.08.09.030	0122869	11	21	M5	2 g
KIT.08.36.D10.60	CA.08.36.D10.60	CA.08.09.030	0122967				
KIT.08.36.D15	CA.08.36.D15	CA.08.09.030	0124344	16	23	M5	3 g
KIT.08.36.D15.60	CA.08.36.D15.60	CA.08.09.030	0124345				
KIT.08.36.D20	CA.08.36.D20	CA.08.09.031	0125105	20	20.2	G 1/8 M	5 g
KIT.08.36.D20.60	CA.08.36.D20.60	CA.08.09.031	0125110				
KIT.08.36.D25	CA.08.36.D25	CA.08.09.032	0109402	25	25	M5 F	65 g
KIT.08.36.D25.60	CA.08.36.D25.60	CA.08.09.032	0109398				
KIT.08.36.D35.1	CA.08.36.D35	CA.08.09.033	9912151	35	32.8	G 1/8 M	10 g
KIT.08.36.D35.2	CA.08.36.D35.2	CA.08.09.034	0114449				13 g
KIT.08.36.D35.60	CA.08.36.D35.60	CA.08.09.034	9912152			G 1/4 M	35 g
KIT.08.36.D52	CA.08.36.D52	CA.08.09.035	0106045	52	45		90 g
KIT.08.36.D52.60	CA.08.36.D52.60	CA.08.09.035	0107385				
KIT.08.36.D75	CA.08.36.D75	CA.08.09.036	0201073	75	60.4		
KIT.08.36.D75.60	CA.08.36.D75.60	CA.08.09.036	0101074				

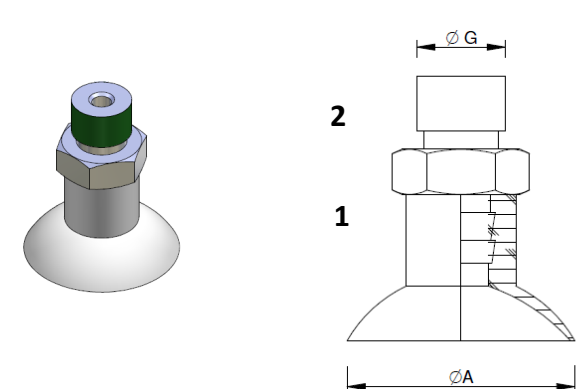
Vacuum Cup with 1 bellow only



SILICONE SERIES

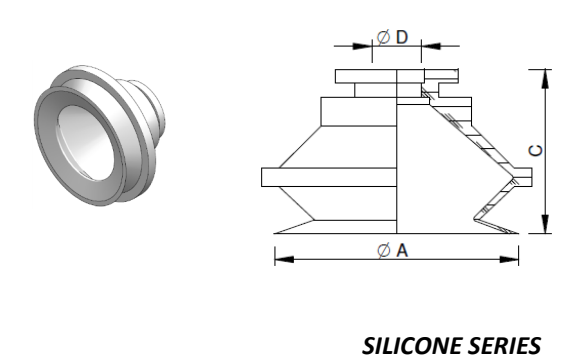
	A	C	D	F(N)	
CA.08.03.001	Ø6	8	Ø1.5	0.7	1 g
CA.08.03.002	Ø8		Ø3	1.0	
CA.08.03.003	Ø10	11	Ø4	1.7	2 g
CA.08.03.004	Ø12			2.4	
CA.08.03.005	Ø15	12	Ø6	3.9	3 g
CA.08.03.006	Ø20			7.25	
CA.08.03.007	Ø25	16	Ø10	12.2	5 g
CA.08.03.008	Ø30			16.7	
CA.08.03.009	Ø35	20	Ø10	23.0	8 g
CA.08.03.010	Ø45			39.0	
CA.08.03.011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

Vacuum Cup with 1 bellow (complete)



	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	4 g
KIT.08.03.D10.4	CA.08.03.003	CA.08.09.004	Ø10	14.51	M5	3 g
KIT.08.03.D10.9	CA.08.03.003	CA.08.09.009	Ø10	5	G1/8	4 g
KIT.08.03.D12.4	CA.08.03.004	CA.08.09.004	Ø12	15.51	M5	5.5 g
KIT.08.03.D12.9	CA.08.03.004	CA.08.09.009	Ø12	6	G1/8	18 g
KIT.08.03.D15.4	CA.08.03.005	CA.08.09.004	Ø15	16.51	M5	19 g
KIT.08.03.D15.9	CA.08.03.005	CA.08.09.009	Ø15	7	G1/8	18 g
KIT.08.03.D20.4	CA.08.03.006	CA.08.09.004	Ø20	17.51	M5	2 g
KIT.08.03.D20.9	CA.08.03.006	CA.08.09.009	Ø20	8	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.08.09.011	Ø30	23		7 g
KIT.08.03.D35.11	CA.08.03.009	CA.08.09.011	Ø35	26		9 g
KIT.08.03.D45.11	CA.08.03.010	CA.08.09.011	Ø45	28		12 g
KIT.08.03.D60.11	CA.08.03.011	CA.08.09.011	Ø60	28		

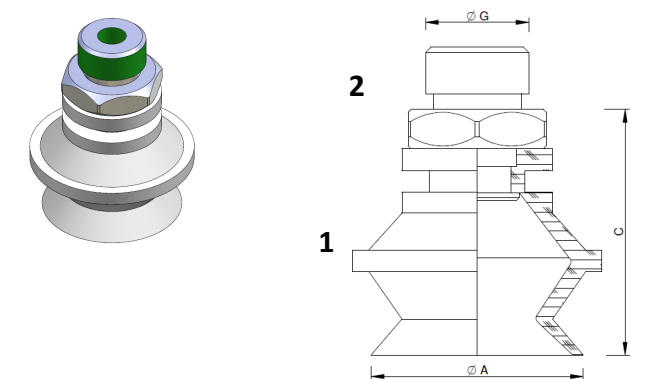
Vacuum Cup with 2 bellows only



SILICONE SERIES

	A	C	D	F(N)	
CA.08.01.001	Ø11	16	Ø4	4.6	1 g
CA.08.01.002	Ø16	19		7.5	2 g
CA.08.01.003	Ø20	19.5	Ø4.8	14.7	3 g
CA.08.01.004	Ø30	27	Ø6	25.5	6 g
CA.08.01.005	Ø40	28	Ø8	48.1	7 g
CA.08.01.006	Ø50	35	Ø10.5	83.3	15 g

Vacuum Cup with 2 bellows (complete)



	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		5.5 g
KIT.08.01.D30.2	CA.08.01.004	CA.08.09.002.AL	Ø30	32	G1/8	18 g
KIT.08.01.D40.2	CA.08.01.005	CA.08.09.037	Ø40	33		19 g
KIT.08.01.D50.3	CA.08.01.006	CA.08.09.003	Ø50	39	G1/4	18 g

For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

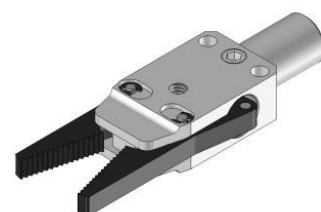
For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

Sprue Grippers GZA.10.08

Closing force (6 bar) = 19 N

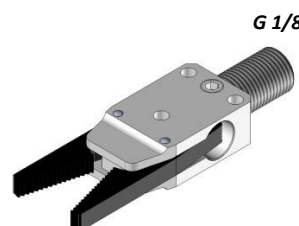
CA.GZA.10.08

Open 14 mm



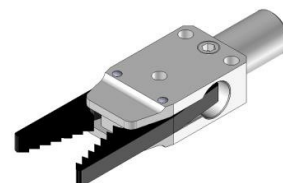
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Open 14 mm



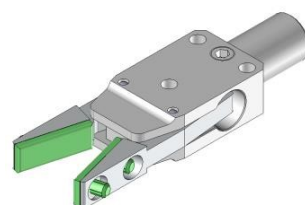
CA.GZA.10.08.19

Open 14 mm



CA.GZA.10.08.G

Open 14 mm



Jaws With Pads

CA.GZA.10.08.LL

Open 14 mm



CA.GZA.10.08.M50

Open 14 mm



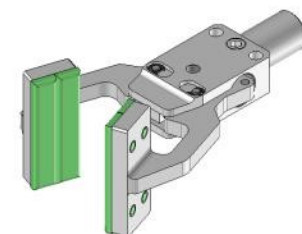
Jaws Without Teeth

Sprue Grippers GZA.10.08

Closing force (6 bar) = 19 N

CA.GZA.10.08.ATG

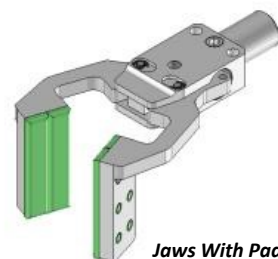
Open 20 mm



CA.GZA.10.08.AHG

Open 20 mm

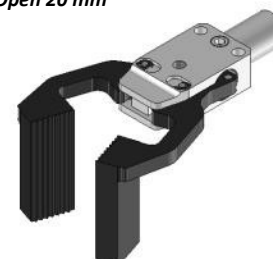
Jaws With Pads



Jaws With Pads

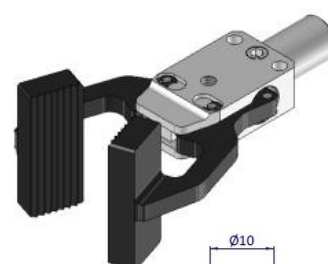
CA.GZA.10.08.AHL

Open 20 mm



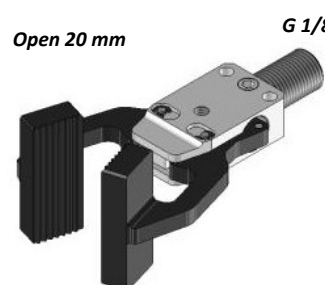
CA.GZA.10.08.AHT

Open 20 mm

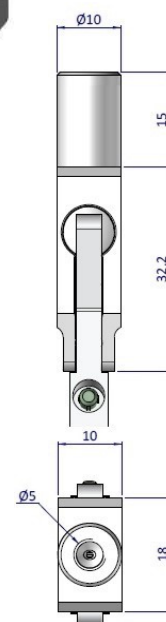


CA.GZA.10.08.FHT

Open 20 mm



G 1/8

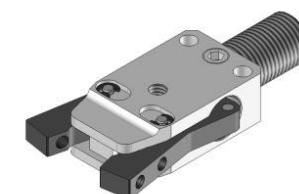


Sprue Grippers GZA.10.08

Closing force (6 bar) = 19 N

CA.GZA.10.08.18C

G 1/8



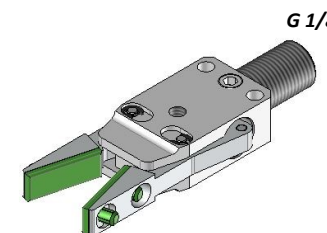
CA.GZA.10.08.AH

Open 14 mm

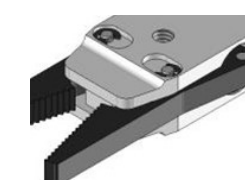


CA.GZA.10.08.18G

Open 14 mm



G 1/8



All GZA.10.08 line has the segers in the pins and the magnet in the jaws

Programmable capacitive sensor



Last minute sensor

	Output	Sensor Type	Sensing distance	Connector method	
CA.SCP.1008	PNP	Magnetic sensor	0mm - 50mm	Connector type M8 4pin	65 g
CA.SCP.1012					



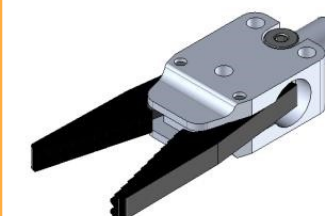
GZA.10.08.6.V

Sprue Grippers GZA.10.12

Closing force (6 bar) = 30 N

CA.GZA.10.12

Open 24 mm



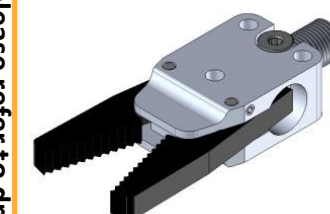
CA.GZA.10.12.14

Open 18 mm



CA.GZA.10.12.18

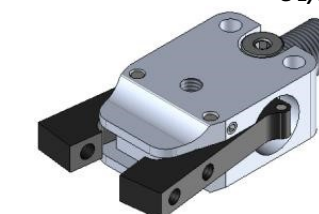
Open 20 mm



G 1/8

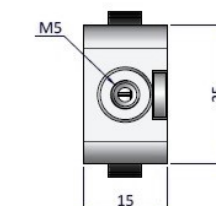
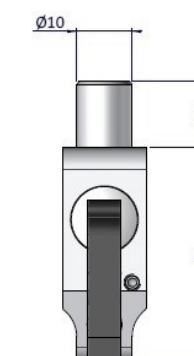
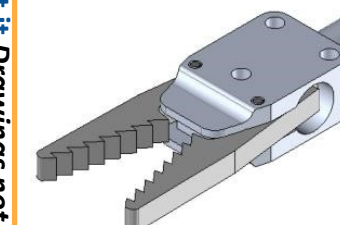
CA.GZA.10.12.18C

G 1/8



CA.GZA.10.12.19

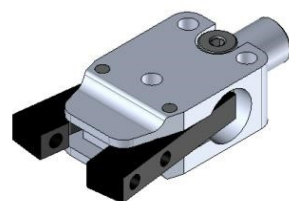
Open 21 mm



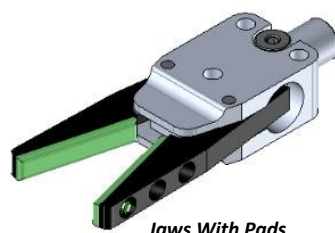
Sprue Grippers GZA.10.12

Closing force (6 bar) = 30 N

CA.GZA.10.12.C



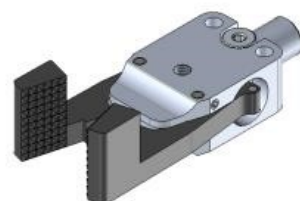
CA.GZA.10.12.G
Open 22 mm



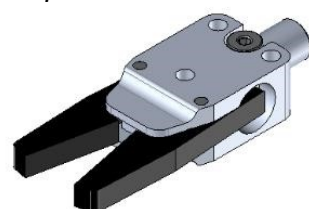
CA.GZA.10.12.L
Open 20 mm



CA.GZA.10.12.L90
Open 19 mm

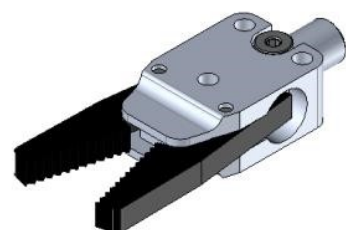


CA.GZA.10.12.LL
Open 20 mm



CA.GZA.10.12.M
Open 20 mm

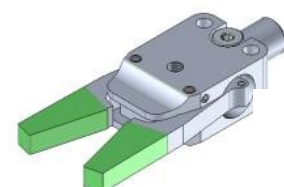
Jaws Without Teeth



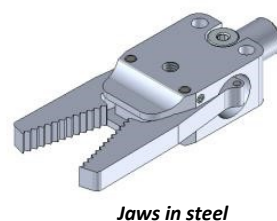
Sprue Grippers GZA.10.12

Closing force (6 bar) = 30 N

CA.GZA.10.12.MC
Open 19 mm



CA.GZA.10.12.MF
Open 20 mm



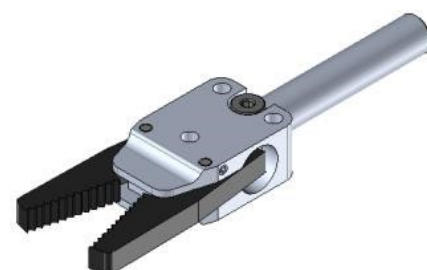
Jaws in steel

CA.GZA.10.12.G50
Open 22 mm

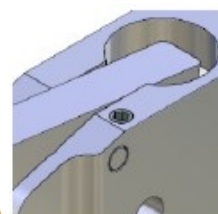
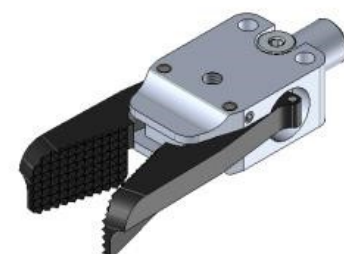


Jaws With Pads

CA.GZA.10.12.M50
Open 20 mm



CA.GZA.10.12.AH
Open 20 mm



All the GZA.10.12 has the locking screw for dowel pin

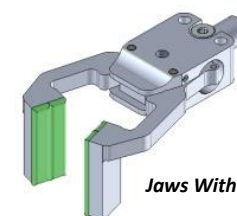
For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

M* = suitable for / passend für / applicabile a / convient à / apto para

Sprue Grippers GZA.10.12

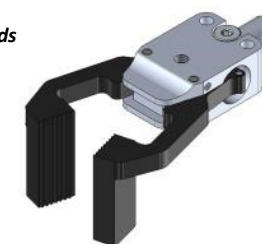
Closing force (6 bar) = 30 N

CA.GZA.10.12.AHG
Open 20 mm

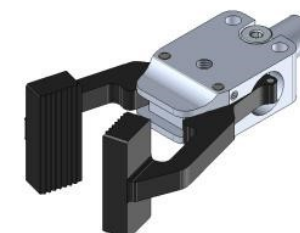


Jaws With Pads

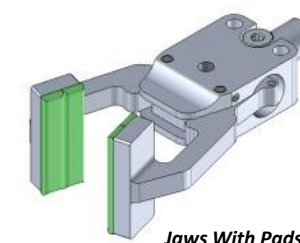
CA.GZA.10.12.AHL
Open 20 mm



CA.GZA.10.12.AHT
Open 20 mm



CA.GZA.10.12.ATG
Open 20 mm



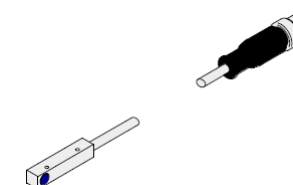
Jaws With Pads



GZA.10.12.6.V

Inductive sensor for GZA.10.12
Normally Open M8 plug connector

MMD.IL5AP3AVF80	PNP
MMD.IL5AN3AVF80	NPN



For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

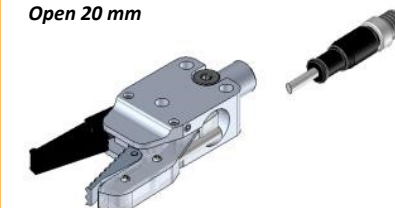
M* = suitable for / passend für / applicabile a / convient à / apto para

Sprue Grippers GZA.10.12 With sensor

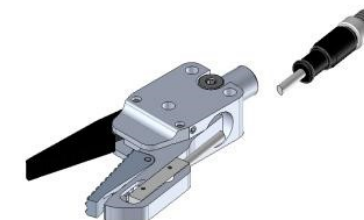
Closing force (6 bar) = 30 N

The sensor is NPN when N is present in the code
The sensor is PNP when only S -P -SP is present in the code

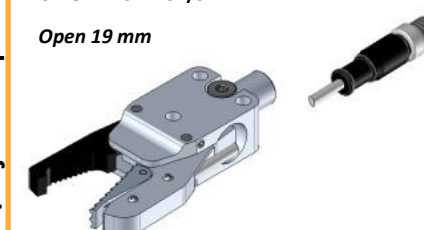
CA.GZA.10.12.MS/MSN
Open 20 mm



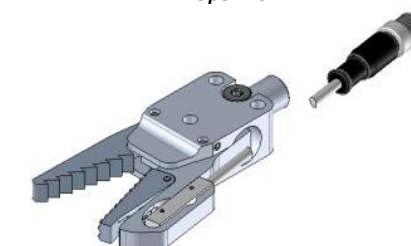
CA.GZA.10.12.S/SN
Open 24 mm



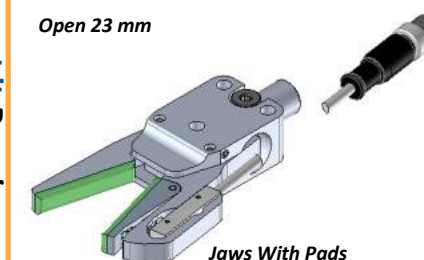
CA.GZA.10.12.S4/S4N
Open 19 mm



CA.GZA.10.12.S9/S9N
Open 20 mm



CA.GZA.10.12.SG/SGN
Open 23 mm



Jaws With Pads

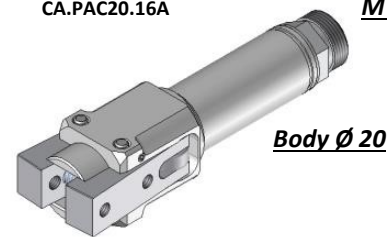
CA.GZA.10.12.M5P/M5N
Open 20 mm



Selfcentering Sprue Grippers PAC20.16

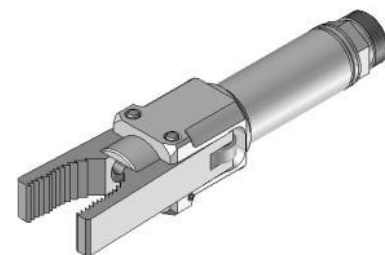
Closing force (6 bar) = 90 N

CA.PAC20.16A **M 17 X 1**

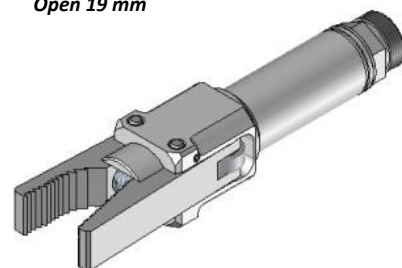


Body Ø 20

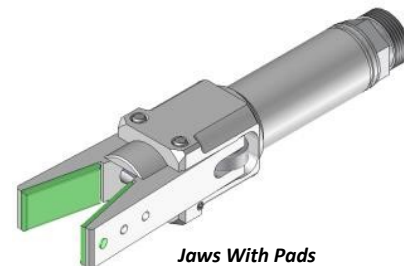
CA.PAC20.16E
Open 19 mm



CA.PAC20.16K
Open 19 mm

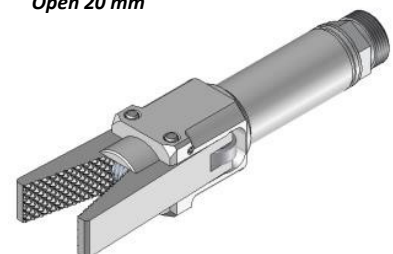


CA.PAC20.16P
Open 20 mm

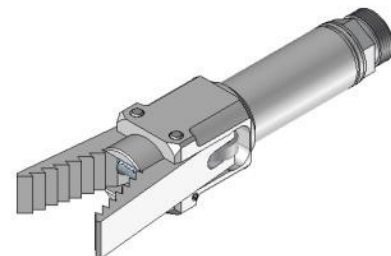


Jaws With Pads

CA.PAC20.16R
Open 20 mm



CA.PAC20.169
Open 24 mm



Selfcentering Sprue Grippers PAC20.16

Closing force (6 bar) = 90 N

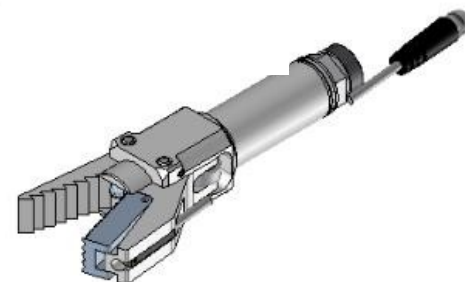
CA.PAC20.16S/SN
Open 22 mm
S=PNP SN=NPN



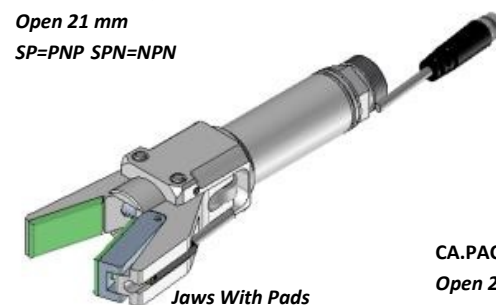
M 17 X 1

Body Ø 20

CA.PAC20.16S9/S9N
Open 21 mm
S9=PNP S9N=NPN

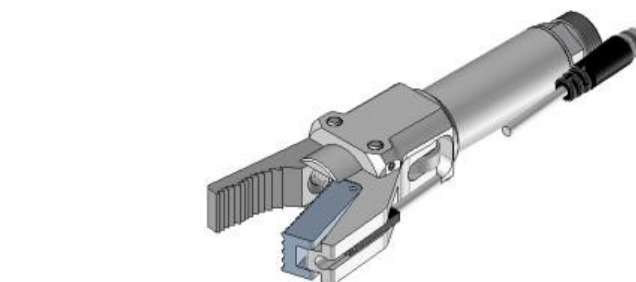


CA.PAC20.16SP/SPN
Open 21 mm
SP=PNP SPN=NPN

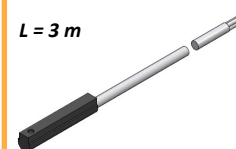


Jaws With Pads

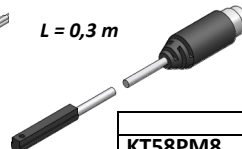
CA.PAC20.16W/WN
Open 21 mm
W=PNP WN=NPN



L = 3 m



L = 0,3 m



	Type	
KT58PM8	PNP	M8
KT58P3M	PNP	-
KT58NM8	NPN	M8
KT58N3M	NPN	-

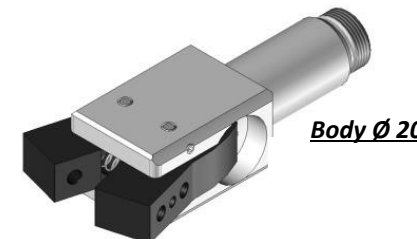


All the PAC20 has the locking screw for dowel pin

Sprue Grippers GRZ.20

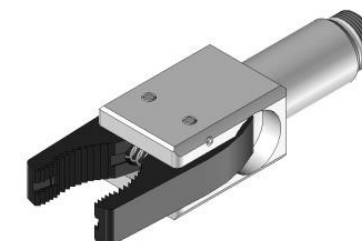
Closing force (6 bar) = 90 N

CA.GRZ.20.A **M 17 X 1**

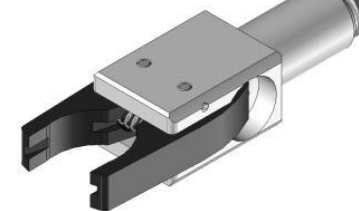


Body Ø 20

CA.GRZ.20.E
Open 21 mm

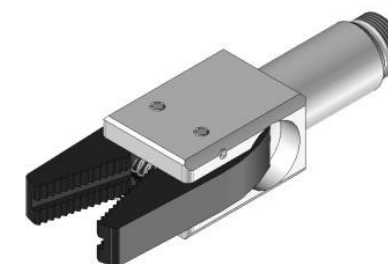


CA.GRZ.20.LL
Open 24 mm

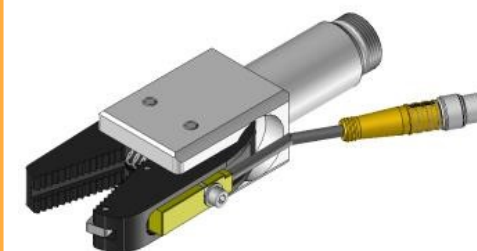


Jaws Without Teeth

CA.GRZ.20.R
Open 21 mm



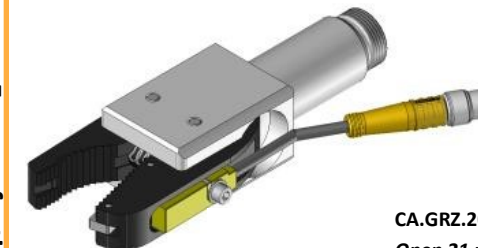
CA.GRZ.20.S/SN
Open 21 mm
S=PNP SN=NPN



Sprue Grippers GRZ.20

Closing force (6 bar) = 90 N

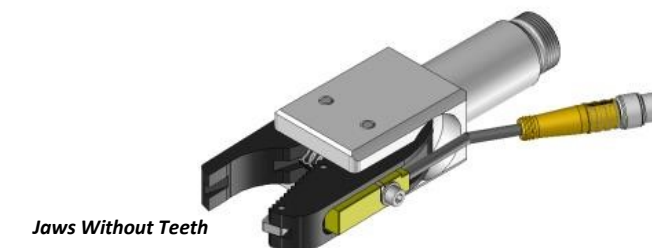
CA.GRZ.20.W/WN
Open 21 mm
W=PNP WN=NPN



M 17 X 1

Body Ø 20

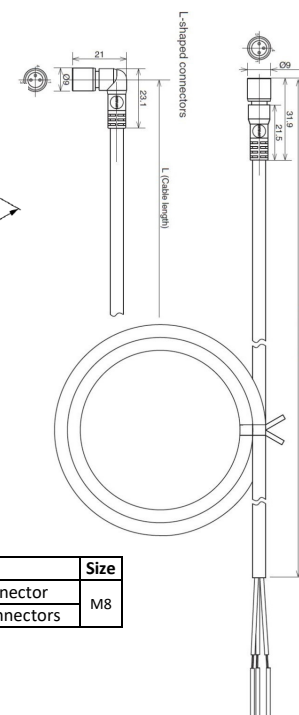
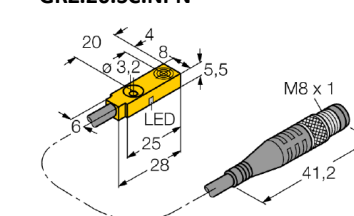
CA.GRZ.20.WL/WLN
Open 21 mm
WL=PNP WLN=NPN



Jaws Without Teeth

GRZ.20.SC.PNP

GRZ.20.SC.NPN



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



All the GRZ.20 has the locking screw for dowel pin

Sprue Grippers

GTS.1003 Ø 14 GTS.1004 Ø 20

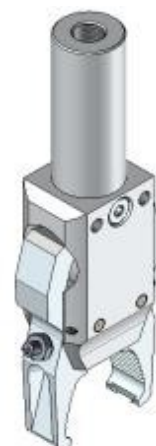
Closing force (6 bar) GTS.1003 = 45 N GTS.1004 = 90 N

Jaws in STEEL

	Body	Open	
CA.GTS.1003.1212	Ø 14	16	
CA.GTS.1004.1212	Ø 20	25	



	Body	Open	
CA.GTS.1003.1214	Ø 14	16	
CA.GTS.1004.1214	Ø 20	25	



	Body	Open	
CA.GTS.1003.1414	Ø 14	16	
CA.GTS.1004.1414	Ø 20	25	



	Body	Open	
CA.GTS.1003.1919	Ø 14	16	
CA.GTS.1004.1919	Ø 20	25	

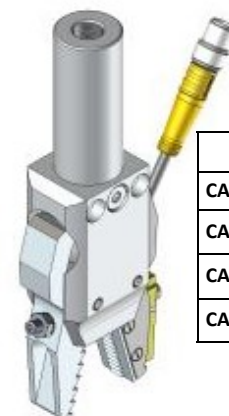
Sprue Grippers

GTS.1003 Ø 14 GTS.1004 Ø 20

Closing force (6 bar) GTS.1003 = 45 N GTS.1004 = 90 N

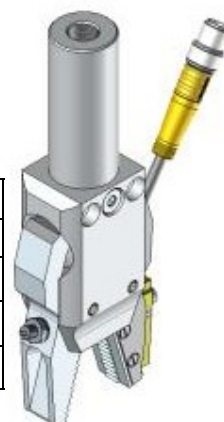
Jaws in STEEL

	Body	Open	
CA.GTS.1003.1717	Ø 14	16	
CA.GTS.1004.1717	Ø 20	25	



	Body	Open	Sensor
CA.GTS.1003.1915	Ø 14	16	PNP
CA.GTS.1004.1915	Ø 20	25	PNP
CA.GTS.1003.195N	Ø 14	16	NPN
CA.GTS.1004.195N	Ø 20	25	NPN

	Body	Open	Sensor
CA.GTS.1003.1215	Ø 14	16	PNP
CA.GTS.1004.1215	Ø 20	25	PNP
CA.GTS.1003.125N	Ø 14	16	NPN
CA.GTS.1004.125N	Ø 20	25	NPN



	Body	Open	Sensor
CA.GTS.1003.1415	Ø 14	16	PNP
CA.GTS.1004.1415	Ø 20	25	PNP
CA.GTS.1003.145N	Ø 14	16	NPN
CA.GTS.1004.145N	Ø 20	25	NPN

	Body
GTS.03.G18	Ø 14
GTS.04.G18	Ø 20



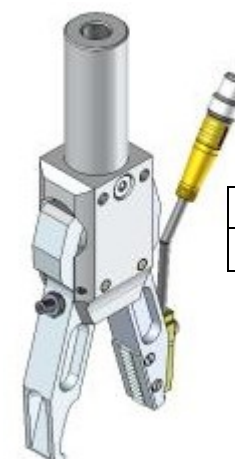
Sprue Grippers

GTS.1003 Ø 14 GTS.1004 Ø 20

Closing force (6 bar) GTS.1003 = 45 N GTS.1004 = 90 N

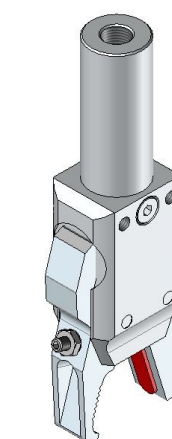
Jaws in STEEL

	Body	Open	Sensor
CA.GTS.1004.125L	Ø 20	36	PNP



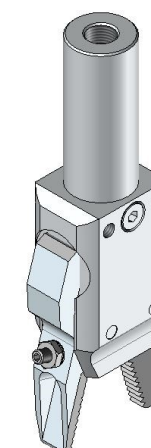
	Body	Open	Sensor
CA.GTS.1004.145L	Ø 20	36	PNP

	Body	Open	
CA.GTS.1003.2929	Ø 14	16	
CA.GTS.1004.2929	Ø 20	25	



	Body	Open	
CA.GTS.1003.1417	Ø 14	16	
CA.GTS.1004.1417	Ø 20	25	

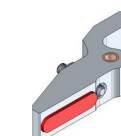
	Body	Open	
CA.GTS.1003.1313	Ø 14	16	
CA.GTS.1004.1313	Ø 20	25	



Jaws in Steel

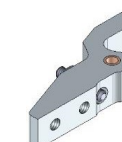
GTS.03 for sprue grippers 14

GTS.04 for sprue grippers 20



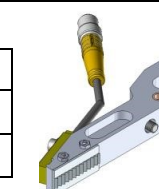
	M*	M*1
GTS.03.17	CA.GTS.1003	GTS.03.G18
GTS.04.17	CA.GTS.1004	GTS.04.G18

	M*	M*1
GTS.03.19	CA.GTS.1003	GTS.03.G18
GTS.04.19	CA.GTS.1004	GTS.04.G18



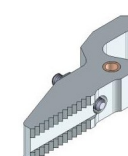
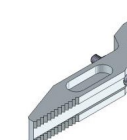
	M*	M*1
GTS.03.29	CA.GTS.1003	GTS.03.G18
GTS.04.29	CA.GTS.1004	GTS.04.G18

	M*	M*1	Sensor
GTS.04.15.L	CA.GTS.1004	GTS.04.G18	PNP
GTS.04.15.LN	CA.GTS.1004	GTS.04.G18	NPN



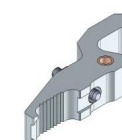
	M*	M*1	Sensor
GTS.03.15	CA.GTS.1003	GTS.03.G18	PNP
GTS.03.15.N	CA.GTS.1003	GTS.03.G18	NPN
GTS.04.15	CA.GTS.1004	GTS.04.G18	PNP
GTS.04.15.N	CA.GTS.1004	GTS.04.G18	NPN

	M*	M*1
GTS.04.12.L	CA.GTS.1004	GTS.04.G18



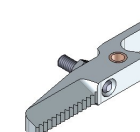
	M*	M*1
GTS.03.12	CA.GTS.1003	GTS.03.G18
GTS.04.12	CA.GTS.1004	GTS.04.G18

	M*	M*1
GTS.04.14.L	CA.GTS.1004	GTS.04.G18



	M*	M*1
GTS.03.14	CA.GTS.1003	GTS.03.G18
GTS.04.14	CA.GTS.1004	GTS.04.G18

	M*	M*1
GTS.03.13	CA.GTS.1003	GTS.03.G18
GTS.04.13	CA.GTS.1004	GTS.04.G18

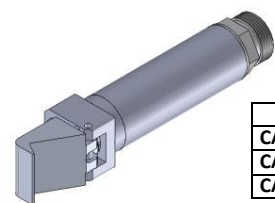


For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

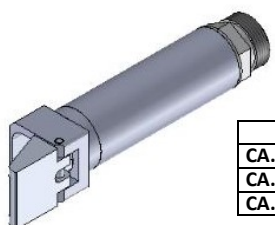
For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

Gripper Finger

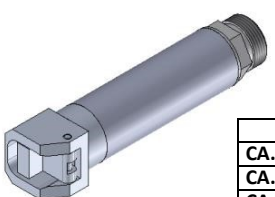
GRF.14.... Ø 14
GRF.20.... Ø 20
GRF.30.... Ø 30



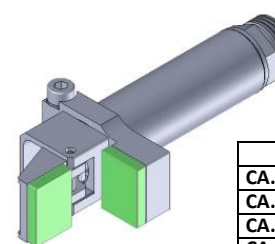
CA.GRF.1435	35°	26 N	25 g
CA.GRF.2035		100 N	65 g
CA.GRF.3035		430 N	206 g



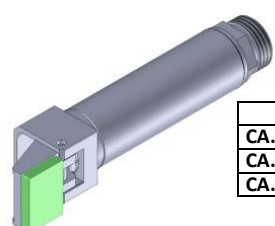
CA.GRF.1495	95°	19 N	25 g
CA.GRF.2095		70 N	60 g
CA.GRF.3095		300 N	193 g



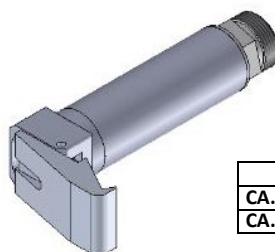
CA.GRF.1490	90°	19 N	25 g
CA.GRF.2090		70 N	65 g
CA.GRF.3090		300 N	185 g



CA.GRF.1495.G	95°	19 N	28 g
CA.GRF.2095.G		70 N	75 g
CA.GRF.3095.G		300 N	235 g
CA.GRF.3095.G40		300 N	299 g

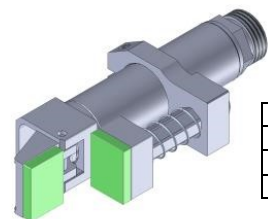


CA.GRF.1495.GW	95°	19 N	25 g
CA.GRF.2095.GW		70 N	60 g
CA.GRF.3095.GW		300 N	193 g



CA.GRF.2035.WE	35°	100 N	76 g
CA.GRF.3035.WE		430 N	259 g

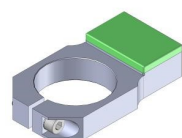
Gripper Finger



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

Stopper with suspension for grippers

		M*	
GRF14.VSX	14	CA.GRF.14...	15 g
GRF20.VSX	20	CA.GRF.20...	20 g
GRF30.VSX	30	CA.GRF.30...	50 g

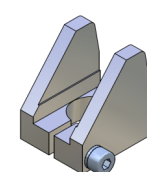


Stopper for Grippers

		M*	
GRF14.95.0708	14	CA.GRF.14..	5 g
GRF20.95.0708	20	CA.GRF.20..	14 g
GRF20.95.0708.30	20	CA.GRF.20..	18 g
GRF30.95.0708	30	CA.GRF.30..	33 g
GRF30.95.0708.40	30	CA.GRF.30..	62 g

Stopper for Gripper

		M*	
CA.ANS.14	14	CA.GRF.14..	17 g
CA.ANS.20	20	CA.GRF.20..	21 g
CA.ANS.30	30	CA.GRF.30..	30 g



Gripper Guide

		M*	
CA.ZTS.14	14	CA.GRF.14..	15 g
CA.ZTS.20	20	CA.GRF.20..	20 g
CA.ZTS.30	30	CA.GRF.30..	60 g

Pads For a So Contact (Viton)

		M*	
GRF14.95.08.V	14	CA.GRF.14..	1 g
GRF20.95.08.V	20	CA.GRF.20..	2 g
GRF30.95.08.V	30	CA.GRF.30..	3 g

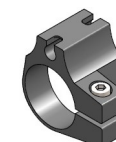


Sensor Mountin Bracket



		M*	Sensor
CA.SMT.14	14	CA.GRF.14..	KT38....
CA.SMT.20	20	CA.GRF.20..	KT58....
CA.SMT.30	30	CA.GRF.30..	

		M*	Sensor
CA.SML.14	14	CA.GRF.14..	KT38....
CA.SML.20	20	CA.GRF.20..	KT58....
CA.SML.30	30	CA.GRF.30..	

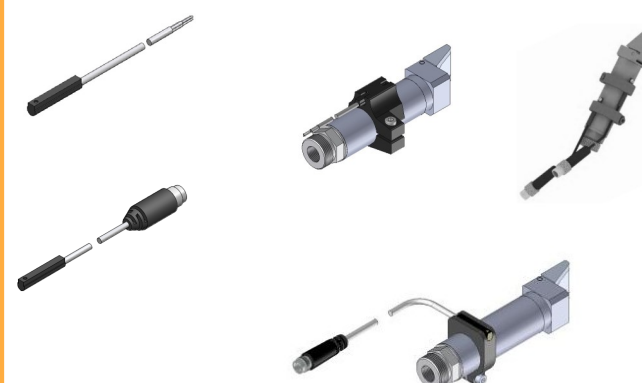


		M*	Sensor
CA.TIK.14007	14	CA.GRF.14..	KT38....
CA.TIK.20007	20	CA.GRF.20..	KT58....
CA.TIK.30007	30	CA.GRF.30..	

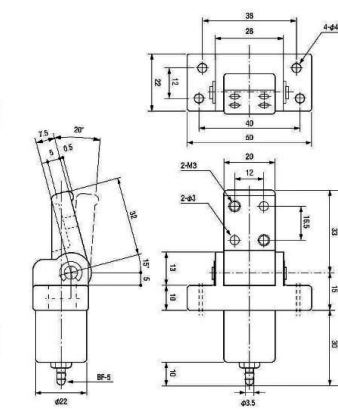
Sensor

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

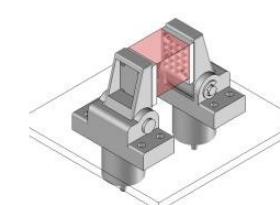
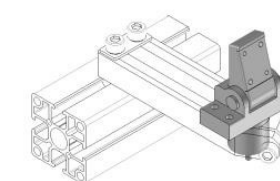
KT38.....



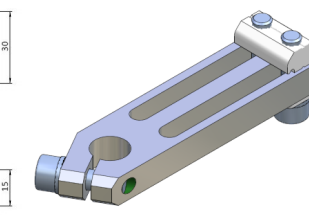
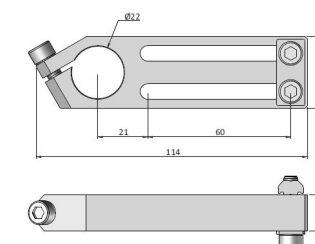
Gripper Finger PPM



		M*	
CA.PPM.2220.G	With Soft Pad	22	CA.WSL.2260.VU.X
CA.PPM.2220	Without Soft Pad		
			45 g

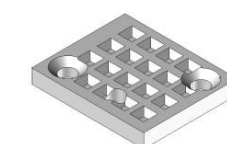


Long Angle Clamp Heavy Duty



	M*	
CA.WSL.2260.VU.X	CA.PPM.2220.G	115 g
	CA.PPM.2220	

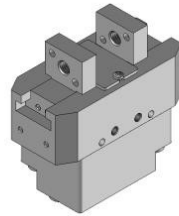
So Pad



	M*	
PPM22.08.S	CA.PPM.2220.G	1 g
	CA.PPM.2220	

CGSP Micro Parallel Gripper

NC Normal Clouse
NO Normal Open



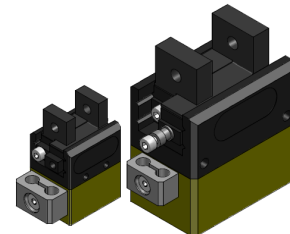
	Stroke	Opening total gripping force	Closing total gripping force	
CA.CGSP.20	4	44 N	36 N	34 g
CA.CGSP.20.NC		38 N	46 N	42 g
CA.CGSP.20.NO		54 N	30 N	40 g
CA.CGSP.25	6	84 N	70 N	51 g
CA.VGSP.25.NC		76 N	86 N	66 g
CA.CGSP.25.NO		98 N	62 N	61 g
CA.CGSP.32	8	61 N	104 N	99 g
CA.CGSP.32.NC		106 N	126 N	126 g
CA.CGSP.32.NO		142 N	88 N	120 g
CA.CGSP.40	12	184 N	154 N	163 g
CA.CGSP.40.NC		152 N	188 N	238 g
CA.CGSP.40.NO		214 N	124 N	219 g

CGSP Bracket for sensor

	M*	Sensor (option I)
CA.M.SGSP.20	CA.CGSP.20	KT58.. KT38..
CA.M.SGSP.25	CA.CGSP.25	
CA.M.SGSP.32	CA.CGSP.32	
CA.M.SGSP.40	CA.CGSP.40	

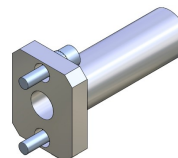
	M*	Sensor (option I)
CA.I.SGSP.20	CA.CGSP.20	MMD.AA1.. MMD.AC1..
CA.I.SGSP.25	CA.CGSP.25	
CA.I.SGSP.32	CA.CGSP.32	
CA.I.SGSP.40	CA.CGSP.40	

MPG Micro Parallel Gripper



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

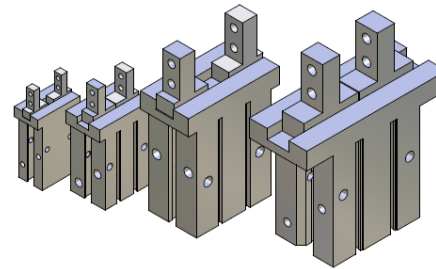
Adapter for Parallel Gripper MPG



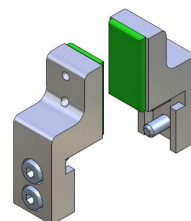
		M*	
CA.APG.20.10.30	Ø 10	CA.MPG.20/CA.SGSP.20	8 g
CA.APG.25.14.40	Ø 14	CA.MPG.25/CA.SGSP.25	16 g
CA.APG.32.14.40		CA.MPG.32/CA.SGSP.32	23 g
CA.APG.40.14.50		CA.MPG.40/CA.SGSP.40	22 g
CA.APG.40.20.50	Ø 20	CA.MPG.40/CA.SGSP.40	30 g
CA.APG.50.20.50		CA.MPG.50	48 g
CA.APG.65.20.50		CA.MPG.64	63 g

GS Parallel Gripper Easy

NC Normal Clouse
NO Normal Open
L Larger opening



	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.NC							
CA.09.05.009.NO		8					60 g
CA.09.05.009.L							
CA.09.05.010	16	6	68 N	90 N	124 g		
CA.09.05.010.NC							
CA.09.05.010.NO		12					135 g
CA.09.05.010.L							
CA.09.05.011	20	10	84 N	132 N	235 g		
CA.09.05.011.NC							
CA.09.05.011.NO		18					270 g
CA.09.05.011.L							
CA.09.05.012	25	14	130 N	208 N	430 g		
CA.09.05.012.NC							
CA.09.05.012.NO		22					470 g
CA.09.05.012.L							
CA.09.05.013	32	22	316 N	386 N	715 g		
CA.09.05.014	40	30	508 N	636 N	1275 g		

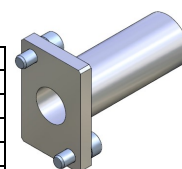


KB Jaws for Parallel Gripper GS (complete)

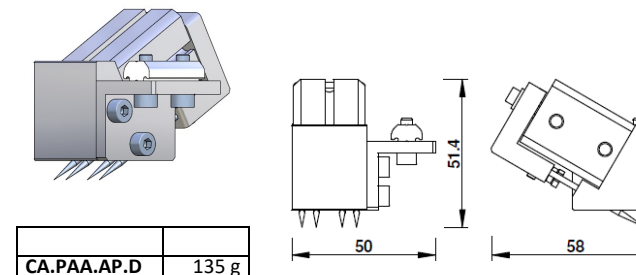
	Insert	M*	
CA.KB.10	GRF14.95.08.V	CA.09.05.009/L	14 g
CA.KB.16	GRF20.95.08.V	CA.09.05.010/L	28 g
CA.KB.20	PAC.20.16P.03.V	CA.09.05.011/L	41 g
CA.KB.25		CA.09.05.012/L	73 g
CA.KB.32	GRF30.95.08.V	CA.09.05.013	166 g

APGE Adapter for Parallel Gripper Easy

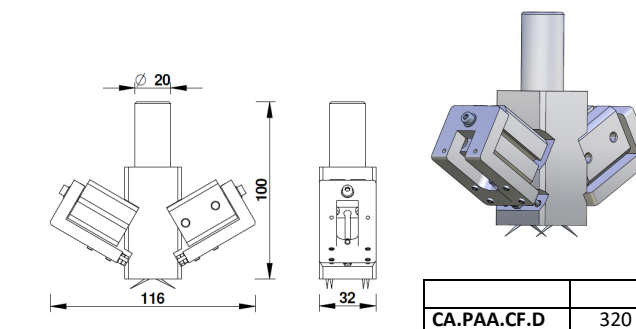
	A	M*	
CA.APGE.10.10.30	Ø 10	CA.09.05.009/L	11 g
CA.APGE.16.14.40	Ø 14	CA.09.05.010/L	21 g
CA.APGE.20.20.50	Ø 20	CA.09.05.011/L	38 g
CA.APGE.25.20.50		CA.09.05.012/L	55 g
CA.APGE.32.20.50		CA.09.05.013	102 g
CA.APGE.40.20.50		CA.09.05.014	140 g



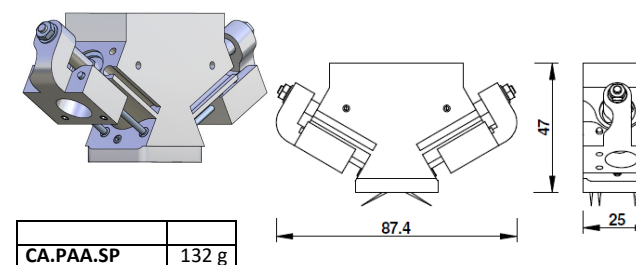
PAA Needle gripper



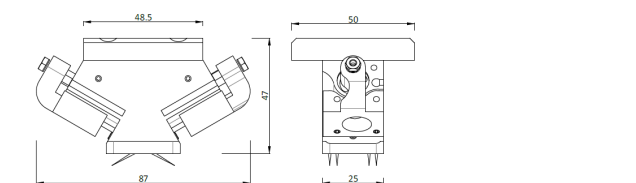
CA.PAA.AP.D	135 g
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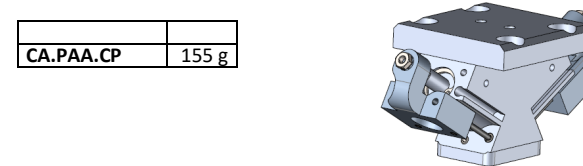
CA.PAA.CF.D	320 g
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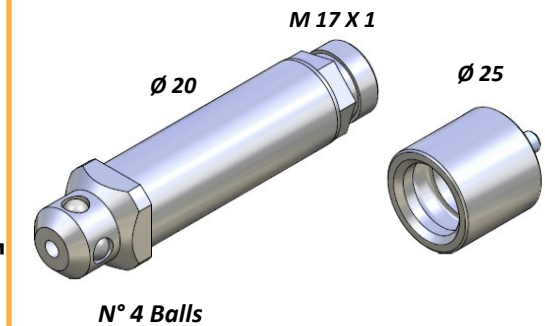
CA.PAA.SP	132 g
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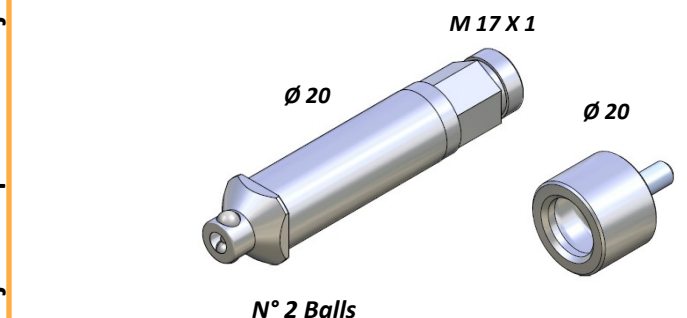
CA.PAA.CP	155 g
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Centering Locking Unit With Balls



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



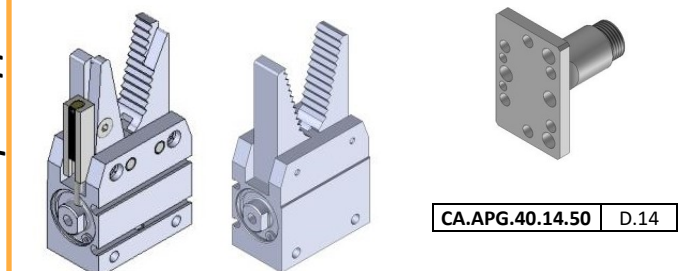
CA.AGP.20.G.20	Gripper side	66 g
CA.AGP.20.M.20	Mould side	30 g

Pneumati Tilt 300 N

CA.RBL.30	0—90°	Ø 30 mm	270 g

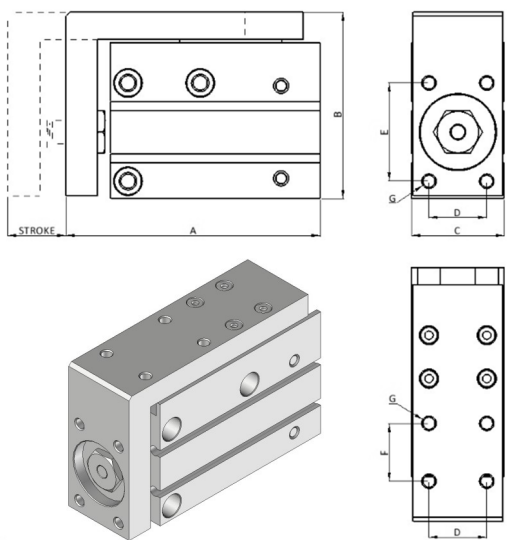
Selfcentering Sprue Gripper

Closing force (8 bar) 250 N



CA.GZA.AA24	-	Double effect	115 g
CA.GZA.AA24.NO	-	Normally Open	151 g
CA.GZA.AA24.NOS2	2 WIRES		
CA.GZA.AA24.NOSP	NPN		

Slide table cilinder

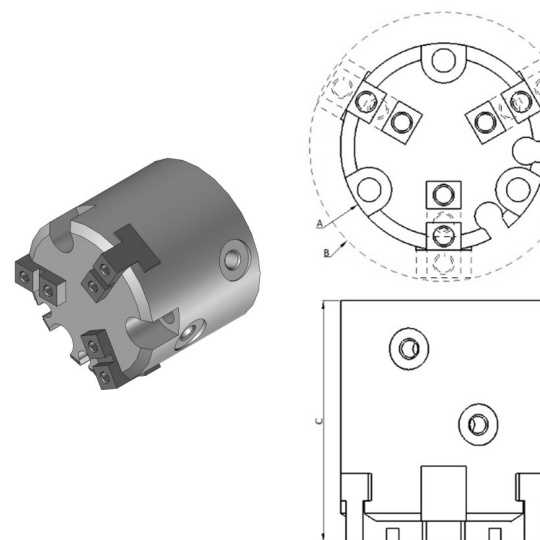


	SIZE	STROKE	A	B	C	D	E	F	G	WEIGHT
CA.HLH.06.10	Ø6	10	49					10		66 g
CA.HLH.06.20		20	59	39	16	9	15	20	M3	80 g
CA.HLH.06.30		30	69					30		93 g
CA.HLH.10.10	Ø10	10	56					10		112 g
CA.HLH.10.20		20	66	47	20	11	18	20	M4	133 g
CA.HLH.10.30		30	76					30		153 g
CA.HLH.16.10	Ø16	10	66					10		204 g
CA.HLH.16.20		20	76	53	25	16	26	20		232 g
CA.HLH.16.30		30	86					30		260 g
CA.HLH.20.10	Ø20	10	78					10	M5	369 g
CA.HLH.20.20		20	88	64	32	20	34	20		417 g
CA.HLH.20.30		30	98					30		466 g

L = 3 m *L = 0,3 m*

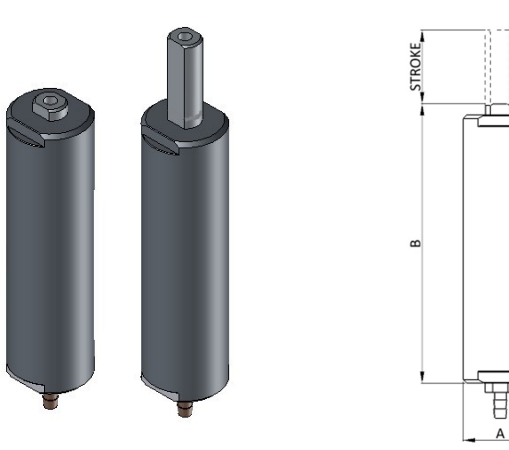
CA.HLH and CA.MHS are suitable for sensors KT58

Parallel gripper 3 jaws self centering



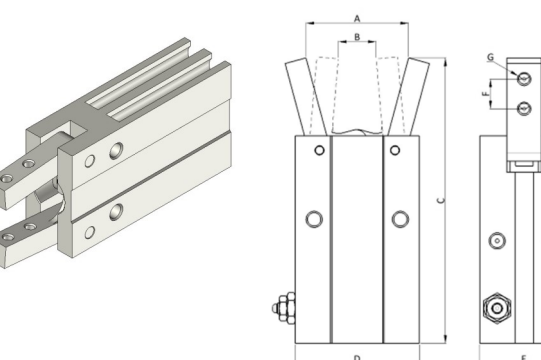
	STROKE	A	B	C	WEIGHT
CA.MHS.16	4	Ø30	Ø39	35	60 g
CA.MHS.20	4	Ø36	Ø45	38	100 g
CA.MHS.25	6	Ø42	Ø55	40	140 g

Cilinder for pipe attachment



	A	B	STROKE	WEIGHT
CA.CDN.2010	Ø20	65	10	40 g
CA.CDN.2020		75	20	46 g
CA.CDN.2030		85	30	50 g

Angular gripper



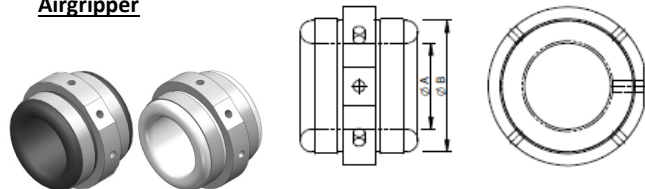
	A	B	C	D	E	F	G	SIZE	WEIGHT
CA.HFY.06	18	7	47	20	10	5	M2	Ø6	34 g
CA.HFY.10	19	7	52	23	16	6	M2,5	Ø10	36 g
CA.HFY.16	28	12	62	30	23	7	M3	Ø16	59 g
CA.HFY.20	37	17	78	42	27	9	M4	Ø20	64 g
CA.HFY.25	46	19	92	52	33	12	M5	Ø25	155 g
CA.HFY.32	53	25	96	62	40	14	M6	Ø32	161 g

L = 2 m

	Type	
ATC.DMSGP020	PNP	-
ATC.DMSGN020	NPN	-

For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

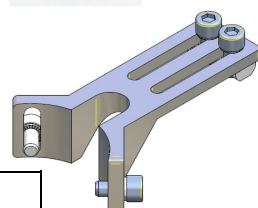
Airgripper



		Working range	Maximum operating air pressure	A	B	
CA.09.13.05.15	Neoprene	5-15 mm	1,5 bar	19	33	60 g
CA.09.13.05.15.S	Silicone		1,0 bar			
CA.09.13.10.25	Neoprene	10-25 mm	1,5 bar	27	48	145 g
CA.09.13.10.25.S	Silicone		1,0 bar			
CA.09.13.15.35	Neoprene	15-35 mm	1,5 bar	37	58	210 g
CA.09.13.15.35.S	Silicone		1,0 bar			
CA.09.13.20.45	Neoprene	20-45 mm	1,5 bar	48	69	285 g
CA.09.13.20.45.S	Silicone		1,0 bar			

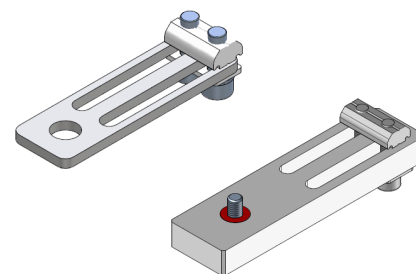


Mountin Brackets



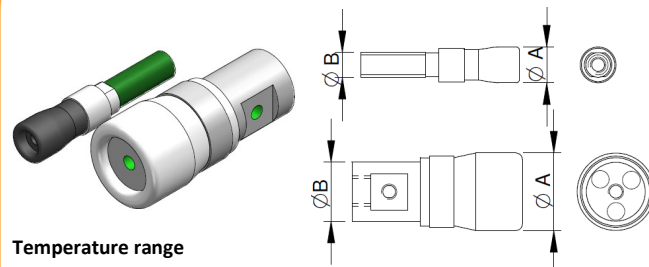
	M*	
CA.09.17.0515.X	CA.09.13.05.15 CA.X../JU	31 g
CA.09.17.1025.X	CA.09.13.10.25 CA.X../JU	46 g
CA.09.17.1535.X	CA.09.13.15.35 CA.X../JU	57 g
CA.09.17.2045.X	CA.09.13.20.45 CA.X../JU	69 g

Air Hand Mountin Brackets



	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		35 g
CA.09.18.1014.X	CA.09.14.10 CA.09.14.14		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		52 g
CA.09.18.35JU	CA.09.14.35		78 g
CA.09.18.4555JU	CA.09.14.45 CA.09.14.55		102 g

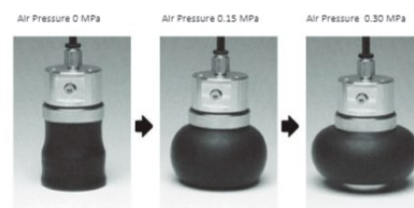
Airpicker



Temperature range

Neoprene - 18° to 74° C
Silicone - 30° to 160° C

		Working range	Maximum operating air pressure	A	B	
CA.09.14.06	Neoprene	8.5-10 mm	4 bar	8	M6	8 g
CA.09.14.07		10-12 mm		9.5		12 g
CA.09.14.09		12-17 mm		11		17 g
CA.09.14.10		16-21 mm		14		28 g
CA.09.14.14	Neoprene Silicone	21-27 mm	5 bar	19	Ø14	60 g
CA.09.14.14.S			1,8 bar			
CA.09.14.17	Neoprene Silicone	24-32 mm	5 bar	22	Ø17	85 g
CA.09.14.17.S			1,8 bar			
CA.09.14.19	Neoprene Silicone	28-36 mm	5 bar	25	Ø19	105 g
CA.09.14.19.S			1,8 bar			
CA.09.14.22	Neoprene Silicone	30-44 mm	5 bar	27	Ø22	160 g
CA.09.14.22.S			1,8 bar			
CA.09.14.25	Neoprene Silicone	32-52 mm	5 bar	29	Ø25	245 g
CA.09.14.25.S			1,8 bar			
CA.09.14.35	Neoprene Silicone	45-65 mm	5 bar	41	Ø34	180 g
CA.09.14.35.S			1,8 bar			
CA.09.14.45	Neoprene	58-85 mm	5 bar	51	Ø44	370 g
CA.09.14.55			5 bar			

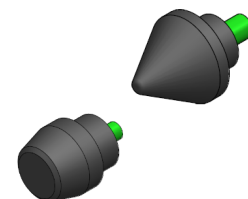


Protecti e Sleeve



	M*	
CA.09.15.001	CA.09.14.14	1 g
CA.09.15.002	CA.09.14.17	
CA.09.15.003	CA.09.14.19	
CA.09.15.004	CA.09.14.22	
CA.09.15.005	CA.09.14.25	
CA.09.15.006	CA.09.14.35	
CA.09.15.007	CA.09.14.45	2 g
CA.09.15.008	CA.09.14.55	

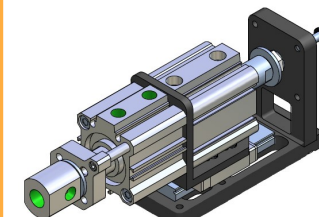
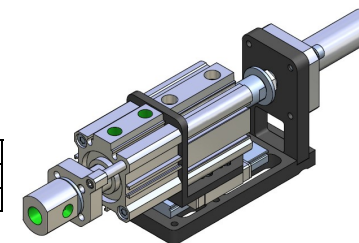
Nose Cones



	M*	
CA.09.16.001	CA.09.14.10	3 g
CA.09.16.002	CA.09.14.14	5 g
CA.09.16.003	CA.09.14.17	6 g
CA.09.16.004	CA.09.14.19	
CA.09.16.005	CA.09.14.22	7 g
CA.09.16.006	CA.09.14.25	8 g
CA.09.16.007	CA.09.14.35	10 g
CA.09.16.008	CA.09.14.45	12 g
CA.09.16.009	CA.09.14.55	14 g

BVAE Movable Vacuum Unit Double Stroke Guided

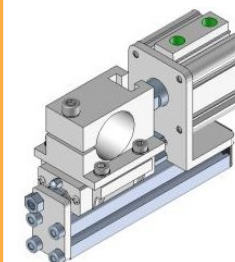
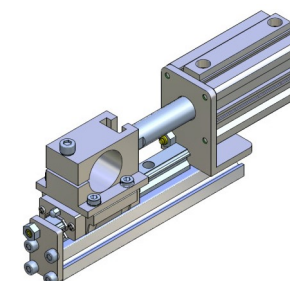
CA.BVAE.32201020	1043 g
CA.BVAE.32201025	1073 g



CA.BVAE.322010	988 g
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HEH Linear Stroke Unit

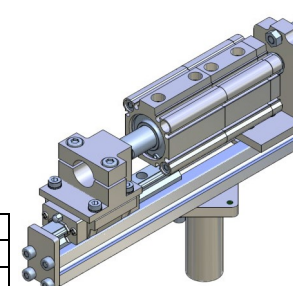
CA.HEH.20.50	Ø 20	1130 g
CA.HEH.30.50	Ø 30	1100 g



CA.HEH.20.100	Ø 20	
CA.HEH.30.10	Ø 30	

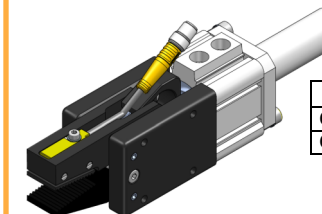
UDHE Double Stroke Unit

CA.UDHE.32102020	Ø 20	1375 g
CA.UDHE.32203020	Ø 30	1455 g



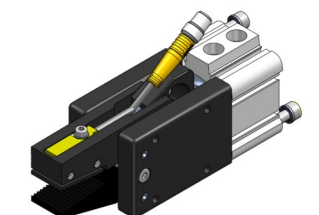
GZ.32 Large-Gripper for Pulling With Sensor

Closing force (6 bar) 350 N

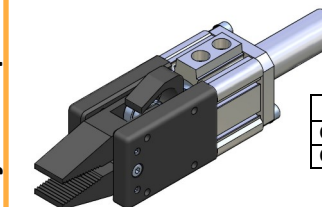


	Open	
CA.GZ.3220.S	12,5	563 g
CA.GZ.3225.S	12,5	591 g

	Open	
CA.GZ.32.S	12.5	509 g

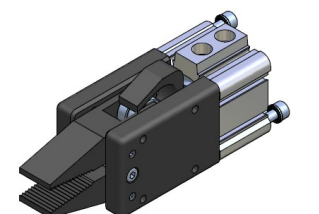


GZ.32 Large-Gripper for Pulling

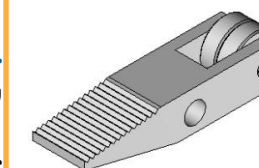


	Open	
CA.GZ.3220	12,5	563 g
CA.GZ.3225	12.5	591 g

	Open	
CA.GZ.32	12.5	509 g

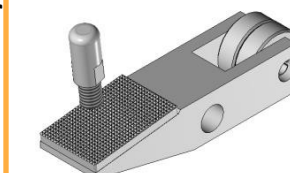
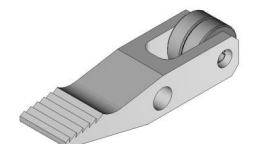


Jaws



CA.GZ.32.FINGER

CA.GZ.32.FING.19

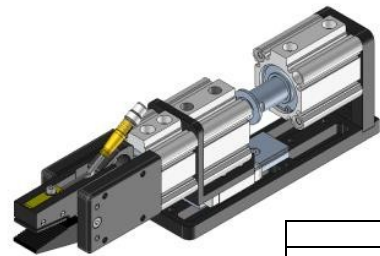


CA.GZ.32.FING.G

CA.GZ.32.FING.S

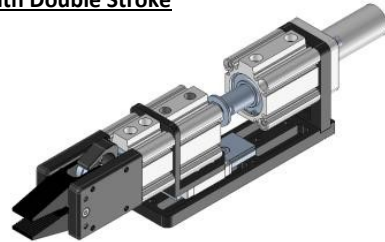


GZ.32 Pull Gripper With Double Stroke & Sensor

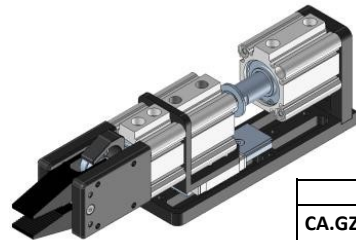


	Open	
CA.GZ.322010.S	12.5	1400 g

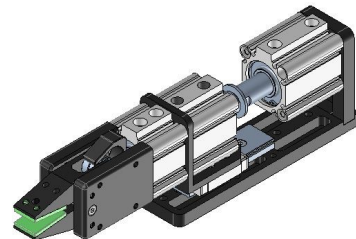
GZ.32 Pull Gripper With Double Stroke



	Open	
CA.GZ.32201020	12.5	1455 g
CA.GZ.32201025	12.5	1485 g



	Open	
CA.GZ.322010	12.5	1400 g



	Open	
CA.GZ.322010.G	12.5	1400 g

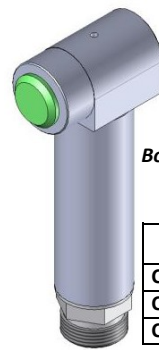
DB Stroke Reducer



	C	M*	
CA.DB.05.25	5	Cylinder 25	1 g
CA.DB.10.25	10		2 g
CA.DB.15.25	15		4 g
CA.DB.05.32	5	Cylinder 32	1 g
CA.DB.10.32	10		2 g
CA.DB.15.32	15		3 g



PMA Side Stroking Gripper Finger



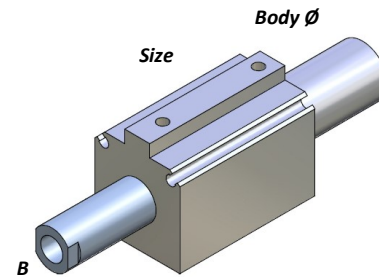
Body Ø

	Stroke	Body	Gripping force (at 6 bar)	
CA.PMA.1406	6	Ø 10	63 N	47 g
CA.PMA.2010	10	Ø 20	115 N	115 g
CA.PMA.3015	15	Ø 30	230 N	380 g

PPS.1406.07.V
PPS.2010.07.V
PPS.3015.07.V

JDR Pneumatic Cylinder With Non-Rotative

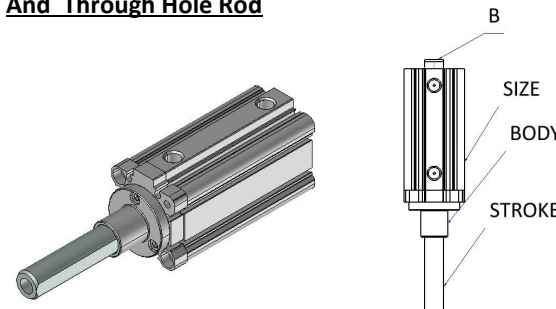
And Through Hole Rod



	Body	Stroke	Size	B	
CA.JDR.141005	Ø 14	10	20	M5	54 g
CA.JDR.142505		25			76 g
CA.JDR.201005		10			63 g
CA.JDR.301518	Ø 20	15	30	G1/8	112 g
CA.JDR.303018		30			150 g
CA.JDR.305018		50			200 g

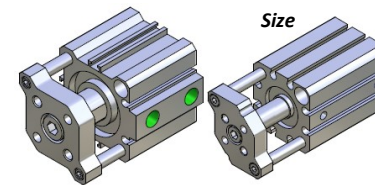
KHZ Pneumatic Cylinder With Non-Rotative

And Through Hole Rod



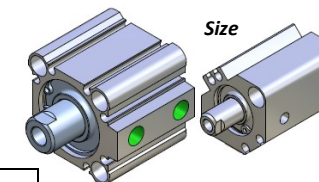
	Body	Stroke	Size	B	
CA.KHZ.20141005	Ø 14	10	20	M5	135 g
CA.KHZ.20143005		30			250 g
CA.KHZ.32201518		15			399 g
CA.KHZ.32203018	Ø 20	30	32	G1/8	483 g
CA.KHZ.32205018		50			602 g

Compact Pneumatic Cylinder With Non-Rotative



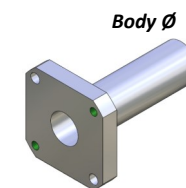
	Size	Stroke	
CA.11.17.001	12	10	59 g
CA.11.17.002		20	77 g
CA.11.17.003	16	10	97 g
CA.11.17.004		20	138 g
CA.11.17.005	20	10	168 g
CA.11.17.006		20	223 g
CA.11.17.007	25	10	264 g
CA.11.17.008		20	309 g
CA.11.17.009	32	10	
CA.11.17.010		20	

Compact Pneumatic Cylinder



	Size	Stroke	
CA.11.18.001	12	10	44 g
CA.11.18.002		20	69 g
CA.11.18.003	16	10	68 g
CA.11.18.004		20	89 g
CA.11.18.005	20	10	106 g
CA.11.18.006		20	138 g
CA.11.18.007	25	10	148 g
CA.11.18.008		20	186 g
CA.11.18.009	32	10	231 g
CA.11.18.010		20	285 g

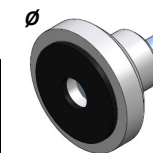
Adapter for Cylinder



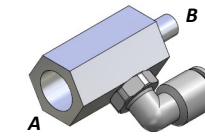
	Body	M* (Size Cylinder)	
CA.ADZ.12.14	Ø 14	12	19 g
CA.ADZ.16.14		16	25 g
CA.ADZ.20.14		20	32 g
CA.ADZ.25.20		25	55 g
CA.ADZ.32.20	Ø 20	32	74 g
CA.ADZ.32.20.90			85 g
CA.ADZ.32.25	Ø 25		

Cylinder Buffer

	B	M* (Size Cylinder)	
CA.11.04.001	Ø 20	M3	5 g
CA.11.04.002	Ø 25	M4	10 g
CA.11.04.003	Ø 30	M5	17 g
CA.11.04.004	Ø 35	M6	28 g
CA.11.04.005	Ø 40	M8	46 g
CA.11.04.006	Ø 20	M5	7 g
CA.11.04.007	Ø 40	G1/8	40 g



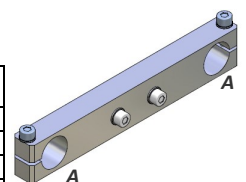
Adapter For Cylinder/Vacuum Cup



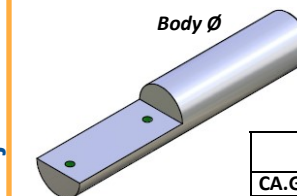
	A	B	M* (Size Cylinder)	
CA.11.15.001	G1/8	M4	16	13 g
CA.11.15.002		M6	25	15 g
CA.11.15.003	G1/4			24 g
CA.11.15.004	G1/8	M5	20	21 g
CA.11.15.005	G1/4	M8	32	22 g

Mounting Bracket For Cylinder/Suction Cup Arm

	A	M* (Size Cylinder)	
CA.KBH.12.10.60	10	12	33 g
CA.KBH.16.14.90	14		56 g
CA.KBH.16.16.125	16	16	88 g
CA.KBH.20.14.90	14	20	58 g
CA.KBH.20.16.125			90 g
CA.KBH.25.16.125	16	25	94 g
CA.KBH.32.20.125	20	32	156 g



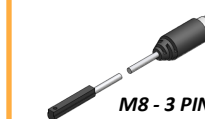
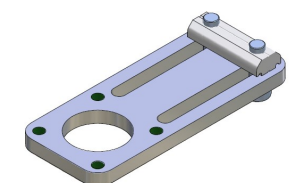
GAZ Gripper Arm For Cylinder



	Body	M* (Size Cylinder)	
CA.GAZ.12.10.60	Ø 10	12	17 g
CA.GAZ.16.14.60	Ø 14	16	27 g
CA.GAZ.20.20.60		20	56 g
CA.GAZ.25.20.60	Ø 20	25	59 g
CA.GAZ.32.20.60		32	62 g

Bracket for Cylinder

	M* (Size Cylinder)	
CA.11.08.001.X	12	35 g
CA.11.08.002.X	16	
CA.11.08.003.X	20	49 g
CA.11.08.004.X	25	52 g
CA.11.08.005.X	32	60 g

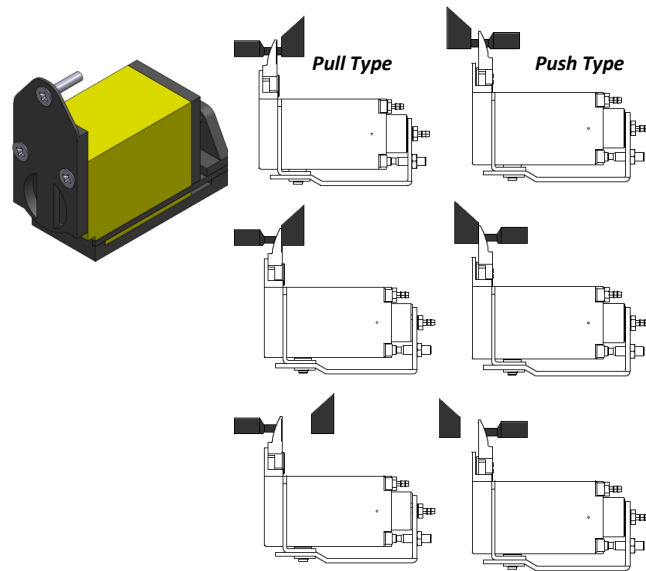


KT58PM8	PNP
KT58NM8	NPN

KT58P3M	PNP
KT58N3M	NPN



SN Slide Air Nippers Horizontal



	Type	Size	Cutti capacity	
CA.SN3	PULL	3	2 Ø mm	170 g
CA.SNP3	PUSH	3	2 Ø mm	170 g
CA.SN5	PULL	5	3 Ø mm	220 g
CA.SNP5	PUSH	5	3 Ø mm	220 g
CA.SN10	PULL	10	4 Ø mm	300 g
CA.SNP10	PUSH	10	4 Ø mm	300 g
CA.SN20	PULL	20	5 Ø mm	595 g
CA.SNP20	PUSH	20	5 Ø mm	595 g

Blades FN

Pull Type

	M*	A	
CA.FN10	CA.SN3	3.5	25 g
CA.FN1	CA.SN5	5.5	30 g
CA.FN3	CA.SN10	7	60 g
CA.FN5	CA.SN20	8.5	100 g

Push Type

	M*	A	
CA.FNP10	CA.SNP3	3.5	30 g
CA.FNP1	CA.SNP5	5.5	35 g
CA.FNP3	CA.SNP10	7	60 g
CA.FNP5	CA.SNP20	8.5	110 g

Blades FN - K

Pull Type

	M*	A	
CA.FN10K	CA.SN3	3.5	30 g
CA.FN1K	CA.SN5	5.5	30 g
CA.FN3K	CA.SN10	7.5	60 g
CA.FN5K	CA.SN20	8.5	110 g

Blades FN - L

Pull Type

	M*	A	
CA.FN10L	CA.SN3	5.5	35 g
CA.FN1L	CA.SN5	8	40 g
CA.FN3L	CA.SN10	9.5	65 g
CA.FN5L	CA.SN20	10	115 g

Blades FN - C

Pull Type

	M*	A	
CA.FN10C	CA.SN3	5.2	50 g
CA.FN1C	CA.SN5	9	60 g
CA.FN3C	CA.SN10	10	70 g
CA.FN5C	CA.SN20	155 g	

Push Type

	M*	A	
CA.FNP10C	CA.SNP3	5.2	50 g
CA.FNP1C	CA.SNP5	8.6	60 g
CA.FNP3C	CA.SNP10	9.8	70 g
CA.FNP5C	CA.SNP20	10	155 g

Blades ZF

Pull Type

	M*	A	
CA.ZFN10	CA.SN3	3.5	30 g
CA.ZFN1	CA.SN5	5.5	35 g
CA.ZFN3	CA.SN10	7	60 g
CA.ZFN5	CA.SN20	8.5	110 g

Push Type

	M*	A	
CA.ZFNP10	CA.SNP3	3.5	30 g
CA.ZFNP1	CA.SNP5	5.5	35 g
CA.ZFNP3	CA.SNP10	7	60 g
CA.ZFNP5	CA.SNP20	8.5	110 g

ATE Nipper Body

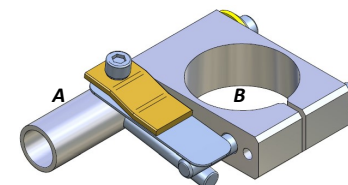
Body Ø

	Size	Body	Closing Force	
CA.ATE.05M	05	Ø 30	11 Nm	97 g
CA.ATE.10M	10	Ø 36	38 Nm	147 g
CA.ATE.20M	20	Ø 45	67 Nm	255 g
CA.ATE.30AM	30	Ø 56	150 Nm	452 g
CA.ATE.50AM	50	Ø 75	116 Nm	911 g

STF Mounting Bracket

	A	B	M*	
CA.STF.30	30	MR.05 / ATE.05	91 g	
CA.STF.36	36	MR.10 / ATE.10	95 g	
CA.STF.45	45	MR.20 / ATE.20	102 g	
CA.STF.56	56	MR.30 / ATE.30	117 g	
CA.STF.75	Ø 30	MR.50 / ATE.50	275 g	

STA Spring Mountin Bracket

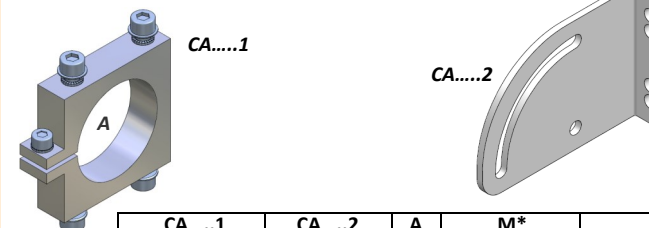


	A	B	M*	
CA.STA.45	Ø 20	45	MR.20 / ATE.20	275 g
CA.STA.56	Ø 20	56	MR.30 / ATE.30	322 g
CA.STA.75	Ø 20	75	MR.50 / ATE.50	443 g

SAT Combinati n Clamp For Sprue Gripper Cutte

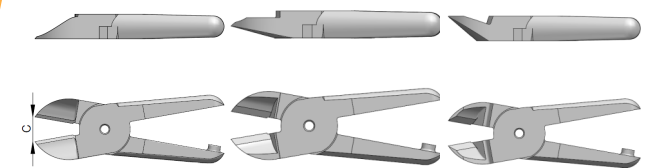
	A	B	M*	
CA.SAT.3610	36	MR.10 / ATE.10	27 g	
CA.SAT.4510	45	MR.20 / ATE.20	30 g	
CA.SAT.5610	56	MR.30 / ATE.30	37 g	
CA.SAT.5620	20	MR.30 / ATE.30	57 g	
CA.SAT.7510	75	MR.50 / ATE.50	43 g	
CA.SAT.7514	14	MR.50 / ATE.50	45 g	
CA.SAT.7520	20	MR.50 / ATE.50	49 g	

Swivel Bracket For Nipper Bodies



CA.....1	CA.....2	A	M*	
CA.04.10.30.1	CA.04.10.30.2	30	MR.05 / ATE.05	87 g
CA.04.10.36.1	CA.04.10.36.2	36	MR.10 / ATE.10	97 g
CA.04.10.45.1	CA.04.10.45.2	45	MR.20 / ATE.20	115 g
CA.04.10.56.1	CA.04.10.56.2	56	MR.30 / ATE.30	136 g
CA.04.10.75.1	CA.04.10.75.2	75	MR.50 / ATE.50	188 g

VES Nipper Blades for ATE



	M*	Style	C	
VES.N5AP	CA.ATE.05	Standard	4	40 g
VES.N10LAP	CA.ATE.10	Deep angle	5	120 g
VES.N10LPF	CA.ATE.10	Standard	11	125 g
VES.N20AP	CA.ATE.20	Inline	16	230 g
VES.N20AJ	CA.ATE.20	Deep angle	11	130 g
VES.N20AJL	CA.ATE.20	Standard	16	380 g
VES.N20PF	CA.ATE.30	Inline	11	370 g
VES.N30AP	CA.ATE.30	Deep angle	19	470 g
VES.N30AJ	CA.ATE.50	Standard	15	390 g
VES.N30AJL	CA.ATE.50	Deep angle	15	390 g
VES.N30PF	CA.ATE.50	Deep angle	15	390 g

MR Nipper Body

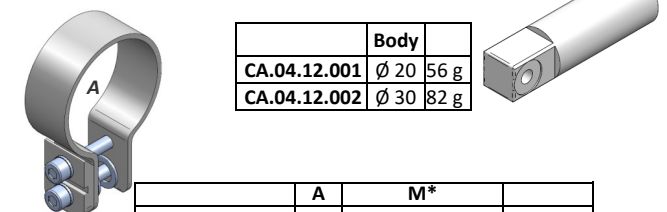
Body Ø

	Body	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	116 Nm	1040 g

F & S Nipper Blades for MR

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

Mountin Bracket

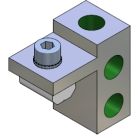


	Body	
CA.04.12.001	Ø 20	56 g
CA.04.12.002	Ø 30	82 g

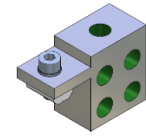
	A	M*	
CA.04.10.004	56	MR.30 / ATE.30	98 g
CA.04.10.005	45	MR.20 / ATE.20	87 g
CA.04.10.006	36	MR.10 / ATE.10	78 g
CA.04.10.007	30	MR.05 / ATE.05	72 g

Air Vacuum Manifold 1 IN 4 OUT

	G1 IN	G2 OUT	M*	
CA.VTB.X.141818	1xG 1/8	4xG 1/8	X	35 g
CA.VTB.JU.141818			JU	37 g

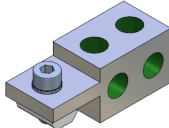


Air Vacuum Manifold 1 IN 8 OUT



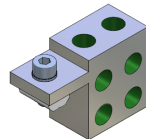
	G1 IN	G2 OUT	M*	
CA.VTB.X.181818	1xG 1/8	8xG 1/8	X	55 g
CA.VTB.JU.181818			JU	58 g

Air Vacuum Manifold 1+1 IN 2+2 OUT



	G1 IN	G2 OUT	M*	
CA.VTB.X.241818	1+1xG 1/8	2+2xG 1/8	X	39 g
CA.VTB.JU.241818			JU	41 g

Air Vacuum Manifold 1+1 IN 4+4 OUT



	G1 IN	G2 OUT	M*	
CA.VTB.X.281818	1+1xG 1/8	4+4xG 1/8	X	54 g
CA.VTB.JU.281818			JU	57 g

Straight Quick Hose Connector

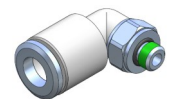


	Hose	G1	
CA.12.05.015	Ø 4	M5	4 g
CA.12.05.016	Ø 6	M5	8 g
CA.12.05.017	Ø 6	G 1/8	10 g
CA.12.05.023	Ø 3	M3	1 g
CA.12.05.024	Ø 3	M5	1 g
CA.12.05.044	Ø 4	G 1/8	10 g
CA.12.05.047	Ø 6	G 1/4	13 g
CA.12.05.048	Ø 6	G 1/4	17 g
CA.12.05.049	Ø 8	G 3/8	27 g

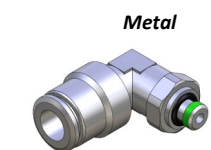
Quick Hose Connector L-90°

	Hose	G1	
CA.12.05.001	Ø 4	M5	4 g
CA.12.05.002	Ø 4	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

Metal and Plastic



Quick Hose Connector L-90°

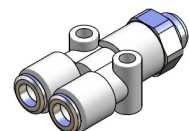


Metal

	Hose	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

Threaded Y Hose Connector

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



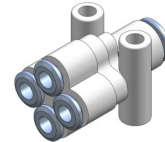
Y Hose Connector



	Hose 1	Hose 2	
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

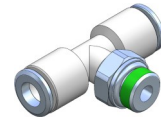
Doble Y Hose Connector

	Hose 1	Hose 2	
CA.12.05.008	Ø 6	4 x Ø 4	12 g
CA.12.05.009	Ø 8	4 x Ø 6	17 g



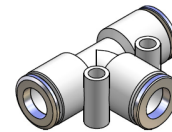
Threaded T Hose Connector

	Hose 1	G1	
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

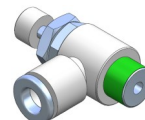


T Hose Connector

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



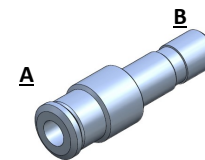
Flow Control



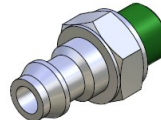
	Hose	G1	
CA.12.05.RF1806	Ø 6	G 1/8	17 g
CA.12.05.RF1804	Ø 4		
CA.12.05.RFM504	Ø 4	M5	7 g
CA.12.05.RFM506	Ø 6	M5	7 g

Reducer Junction

	Female A	Male B	
CA.12.05.035	Ø 3	Ø 4	2 g
CA.12.05.042	Ø 4	Ø 6	9 g
CA.12.05.046	Ø 6	Ø 4	11 g



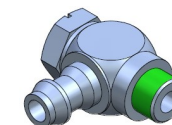
Plug-In Nipple



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

L Plug-In Nipple

	Hose	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

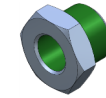


Plug For Push-In Fitting



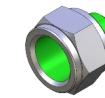
	Hose		
CA.12.05.036	Ø 4		1 g
CA.12.05.037	Ø 6		1 g

Reducer (parallel)



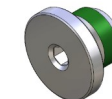
	IG 1	AG 2	
CA.08.14.001	M5	G 1/8	8 g
CA.08.14.002	M6	G 1/8	8 g
CA.08.14.003	G 1/8	G 1/4	11 g
CA.08.14.004	M6	G 1/4	13 g
CA.08.14.022	G 1/4	G 3/8	12 g

	IG 1	AG 2	
CA.08.14.018	G 1/8	M5	7 g
CA.08.14.019	G 1/4	G 1/8	14 g
CA.08.14.016	G 3/8	G 1/8	17 g
CA.08.14.017	G 3/8	G 1/4	12 g



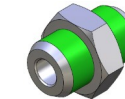
Male plug (parallel)

	AG 1	
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

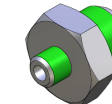


Nipple (parallel)

	AG	
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



Reducing Nipple (parallel)



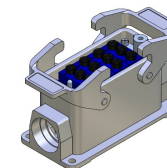
	AG 1	AG 2	
CA.08.14.011	M5	G 1/8	8 g
CA.08.14.012	G 1/8	G 1/4	15 g

Pneumatic Seal Ring

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



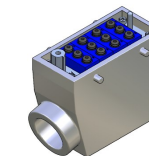
Mounting Case Robot Side



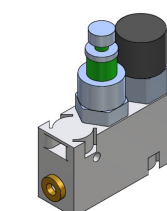
CA.SCAR.12P00E	12 OUT x hoses Ø 6	405 g

Grommet Case Robot Side

CA.SCAG.12P00E	12 OUTx hoses Ø 6	361 g



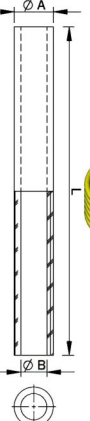
Pressure Regulator



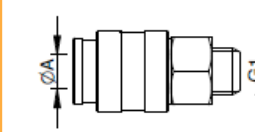
	Hose	
CA.11.06.001	Ø 4	30 g

Hoses

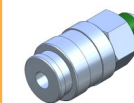
	Color	A	B	L	
CA.15.01.011	Neutral	3	1.5		
CA.15.01.010	Blue	4	2.5		
CA.15.01.001	Yellow	4	2.5		
CA.15.01.007	Red	4	2.5		
CA.15.01.019	Black	4	2.5		
CA.15.01.020	Green	4	2.5		
CA.15.01.009	Neutral	6	4	25 mt	
CA.15.01.002	Blue	6	4	25 mt	
CA.15.01.003	Yellow	6	4	25 mt	
CA.15.01.006	Red	6	4	25 mt	
CA.15.01.015	Black	6	4	25 mt	
CA.15.01.014	Green	6	4	25 mt	
CA.15.01.016	Gray	6	4	25 mt	
CA.15.01.012	Neutral	8	5.5		
CA.15.01.005	Yellow	8	5.5		
CA.15.01.008	Red	8	5.5		



Quick coupling socket

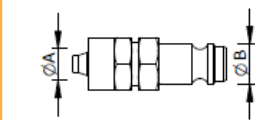
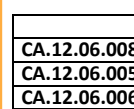


	M*	A	AG 1	
CA.12.06.003	CA.12.06.008	2.5	M5	8 g
CA.12.06.001	CA.12.06.005	5.0	G 1/8	27 g
CA.12.06.007	CA.12.06.006	7	G 1/4	70 g



Plug-In Nipple

	M*	A	IG 1	
CA.12.06.008	CA.12.06.003	2.5	M5	3 g
CA.12.06.005	CA.12.06.001	5.0	G 1/8	14 g
CA.12.06.006	CA.12.06.007	7	G 1/4	23 g

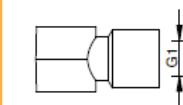
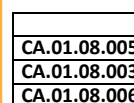


	M*	A Hose	B	
CA.12.06.004	CA.12.06.003	Ø 4	2.5	5 g
CA.12.06.002	CA.12.06.001	Ø 6	5.0	18 g

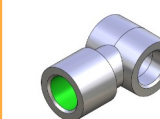


Pneumatic Hollow bolt

	IG 1	AG 2	M*	
CA.01.08.005	M5	M5	CA.01.08.008	3 g
CA.01.08.003	G 1/8	G 1/8	CA.01.08.004	17 g
CA.01.08.006	G 1/4	G 1/4	CA.01.08.007	28 g

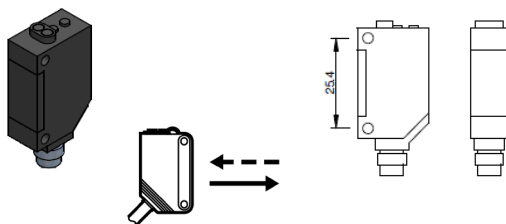


Pneumatic ring connector

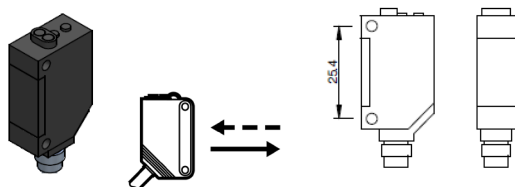


	IG 1	M*	
CA.01.08.008	M5	CA.01.08.005	6 g
CA.01.08.004	G 1/8	CA.01.08.003	15 g
CA.01.08.007	G 1/4	CA.01.08.006	20 g

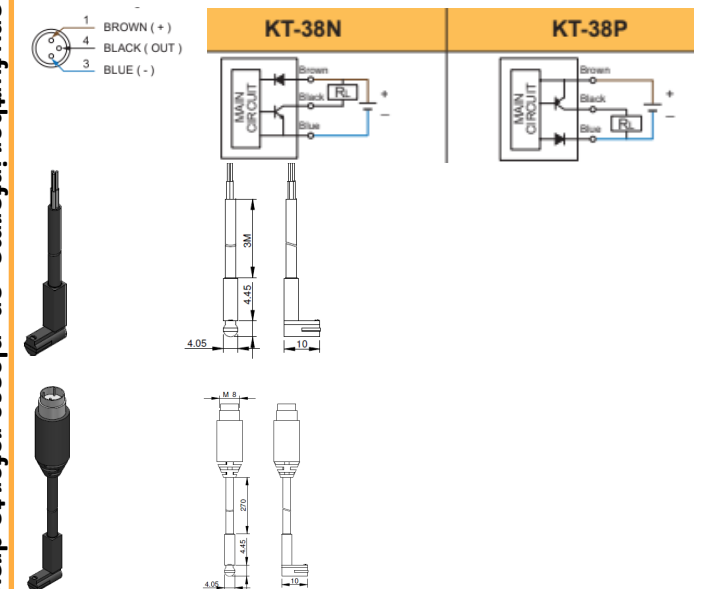
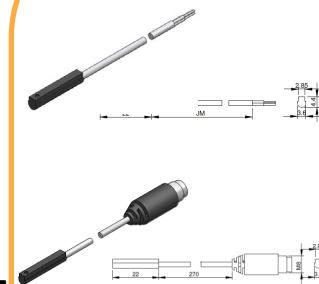
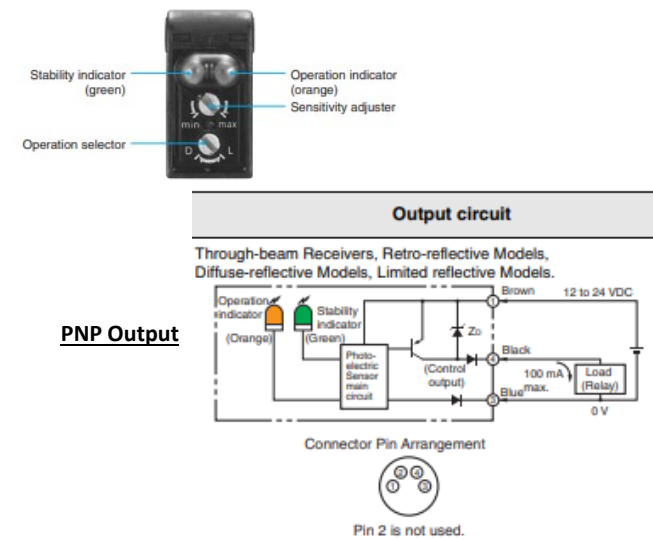
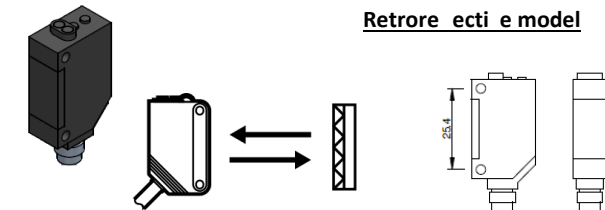
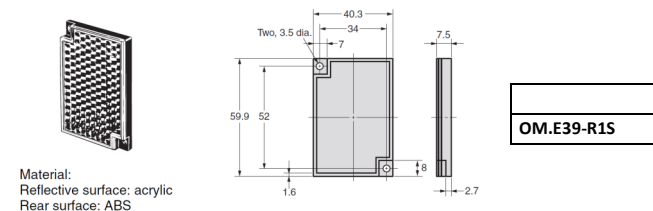
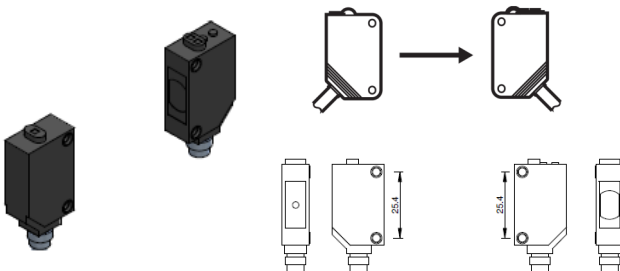
Laser Thin beam type (1 mm) reflective model



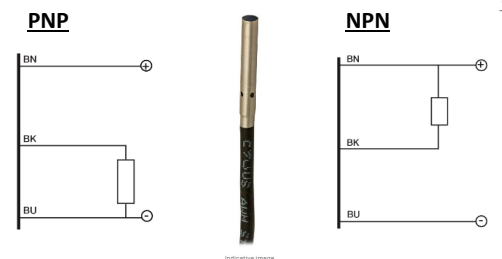
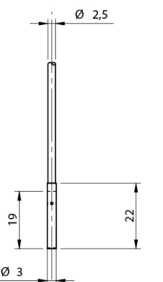
Background suppression (Laser)



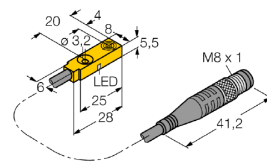
Through-beam laser 1 mm



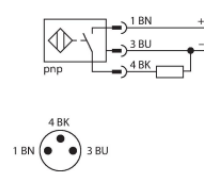
		Sensor with cable	
MMD.AA1.AP3A	Ø 3	3 wires PNP normally Open mt 2 cable	30 g
MMD.AA1.AN3A	Ø 3	3 wires NPN normally Open	



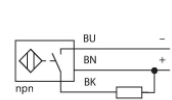
Inductive Sensor



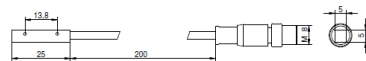
PNP



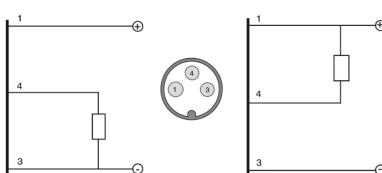
NPN



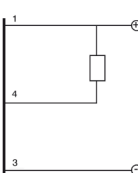
	Sensor with cable	
GRZ.20.SC.PNP	INDUCTIVE SENSOR PNP normally OpenM8	30 g
GRZ.20.SC.NPN	INDUCTIVE SENSOR NPN normally OpenM8	



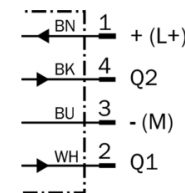
PNP



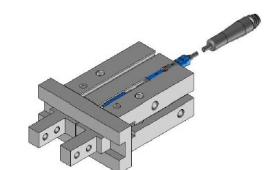
NPN



	Sensor with cable	
MMD.IL5AP3AVF80	INDUCTIVE SENSOR PNP normally Open M8 plug connector	15 g
MMD.IL5AN3AVF80	INDUCTIVE SENSOR NPN normally Open M8 plug connector	

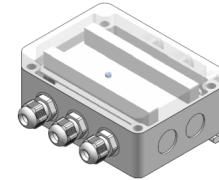


	Output	Connector method	
CA.SCP.1008	PNP	Connector type M8 4pin	65 g
CA.SCP.1012			



	Output	Connector method	
SIC.MZ2QCSSPSKP0	PNP	Connector type M8 4pin	

Sensor Box



	Power supply	INputs	OUTputs
CA.SDS.02	24 V dc (+/- 10%)	Maximum 2 PNP, NPN or dry contact (NO or NC) sensor switched by jumper	1 up to 2 PNP, NPN or dry contact (NO or NC) outputs switched by jumpers
CA.SDS.04		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		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		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

Functioning and set up

WIRING

Inputs

- 1) Wire the Input sensors like the red section in the drawing below.
- 2) Mount the JPC (jumpers) on each sensor wired as PNP or NPN, according to the sensor your are using.
- 3) Do not mount any jumpers on INputs which are not used

Outputs

- 1) Possibility to wire 1 to 8 outputs.
- 2) In case of utilizing one OUT with various IN, always wire the last OUT
- 3) NB without mounting the JPC contact NO and NC the outputs will be diverted to IN
- 4) Mount all the JPC's on PNP or NPN according to the desired outputs

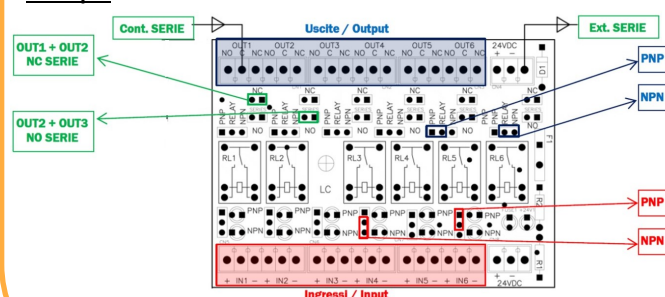
ELECTRICAL SUPPLY

- 1) Connect the 24 V dc ($\pm 10\%$)
- 2) Always utilize the connector positioned at the end of the OUT connectors

SERIAL CONNECTION

- 1) Possibility to connect several electrical boards between each other
- 2) Always connect the 3° PIN of the electrical connector with the common 2° PIN comune (C) of the next electrical board

Example



CA.19.03.002	25 pin M	25 g
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CA.19.03.003	25 pin F	25 g
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CA.19.03.001	25 pin M	10 g
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CA.19.03.004	24 pin M	25 g
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CA.19.03.005	24 pin F	25 g
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PAX.1501252	M8 3P M	15 g
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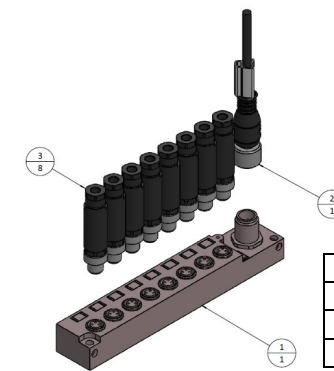


PAX.1506888	M8 3P F	15 g
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PAX.1501265	M8 4P M	15 g
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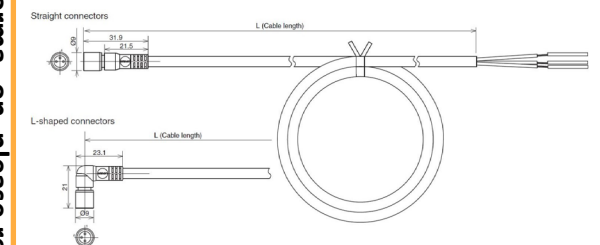


PAX.1506891	M8 4P F	15 g
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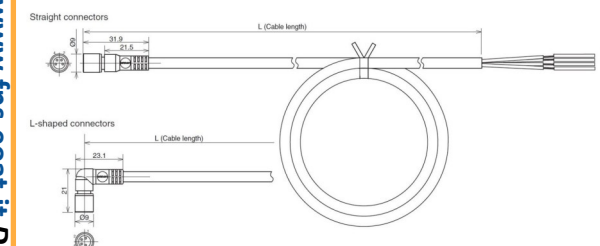
Positi n	code	Qty
1	WEI.1871680000	1
2	WEI.1879710500	1
3	PAX.1501252	8

M8 Screw-on cable connectors 3 - wires

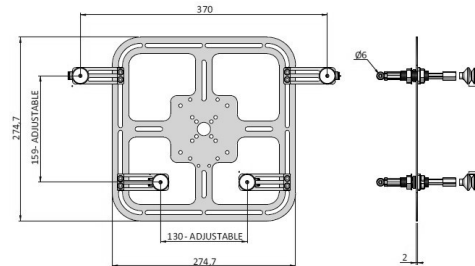


	Type	Size
OM.XS3F.M83S5M	Straight connector	M8
OM.XS3F.M83A5M	L - shaped connectors	

M8 Screw-on cable connectors 4 - wires



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



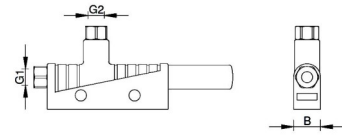
COMPONENTS	DESCRIPTION	QTY	
CA.04.20.14.X	Mounting Bracket 14	4	45 g
CA.08.09.009	Adapters for vacuum cups G 1/8		3 g
CA.08.30.005	Vacuum Cup with 2 bellows only (silicone) D. 25 mm		5 g
CA.12.05.003	Orienting elbow male adapter (parallel) G 1/8 6 mm		8 g
CA.SDNG.1420	Threaded-body non-rotative Suspension D. 14 Stroke 20 mm		33 g
PIA.275X275X2	Basic EOAT Plate 275x275x2 inox	1	516 g



Glue bonding procedure pad Rubber in Lay on pad holder Aluminium

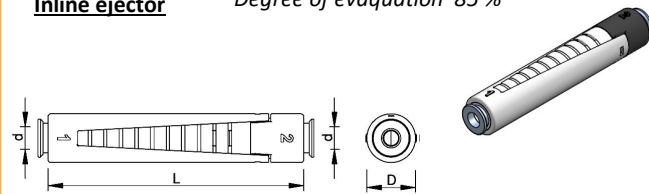
- 1) Surface cleaning of Rubber in Lay with sandpaper
- 2) Surface cleaning of Aluminium with sandpaper
- 3) Put Primer LOCTITE 770 on pad RUBBER in Lay
- 4) Put glue LOCTITE 406 on pad holder Aluminium
- 5) Stick pad Rubber in Lay on pad holder Aluminium

A 3D perspective view of a metal bracket. The bracket has a flat base with two circular holes. A threaded rod is inserted through the bracket, secured with a nut and a lock washer. The rod extends through the bracket, and the nut is tightened against the lock washer.



	Sucti n rate (max)	G1	G2	B	Ø	
CA.SBP.10.G02	37.7 l/min	G 1/8	G 1/8	10	1	22 g
CA.SBP.15.G02	71 l/min			15	1.5	
CA.SBP.20.G03	127 l/min	G 1/4	G 3/8	20	2.0	50 g

Pressure optimal 4,5 bar
Degree of evaquaation 85 %



	Suction rate (max)	d	D	L	Ø	
CA.SLP.05.SI	8 l/min	4	10	57	0.5	5 g
CA.SLP.07.SI	15.9 l/min				0.7	

For any further information, please refer to drawings on www.fps-eoat.it Drawings not to scale

Note | Notes

[illegible]



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