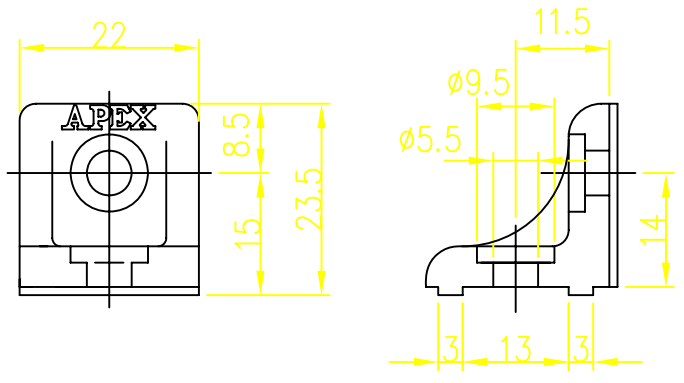
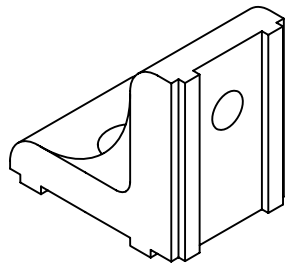
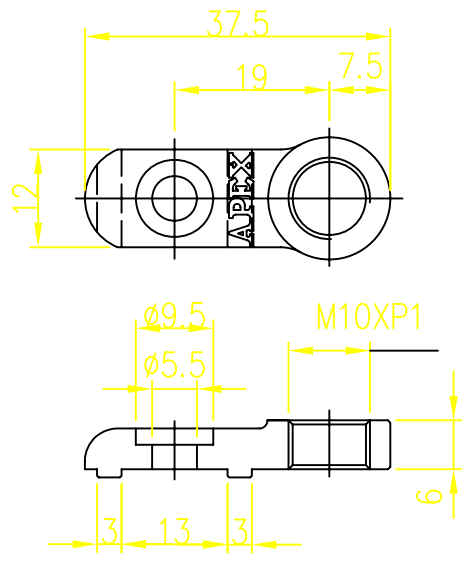
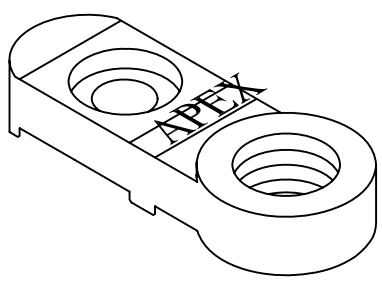


Type Drawn	Parts No.	Specification	Memo
	Suction Pad Rail Angle Plate T102526C	Fit The Rail	T102500C-003
	Suction Pad Locking Plate T102523C	Size M10X1.0	T102500C-002
	Suction Pad Lock Nut T102524C	Size M5X0.8	T102500C-005
	Suction Pad Rail T102525C	Different Length Available	T102500C-001
	Air Pressure Separate Block 4 Holes	Size M5X0.8	AC08004C
	Air Pressure Separate Block 6 Holes	Size M5X0.8	AC08012C
	Jig Linkage Plate 11201	200X26X6T	
	Suction Pad Linkage Plate 11202	270X26X6T	
	Holder Cylinder Fix Plate AC08009C	300X56X4.6T	
	Holder Cylinder Fix Plate AC08010C	400X50X4.6T	
	Holder Cylinder Suction Pad Seat AC08014C	Fix With Holder Cylinder (B)	
	Holder Cylinder Fix Seat AC08013C	Fix With Holder Cylinder (A)	

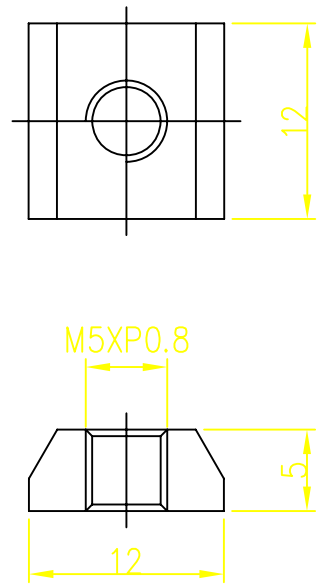
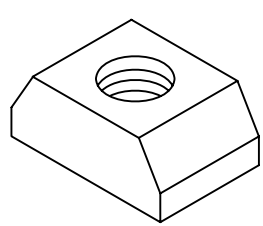
Suction Pad Rail
Angle Plate
T102526C



Suction Pad
Locking Plate
T102523C



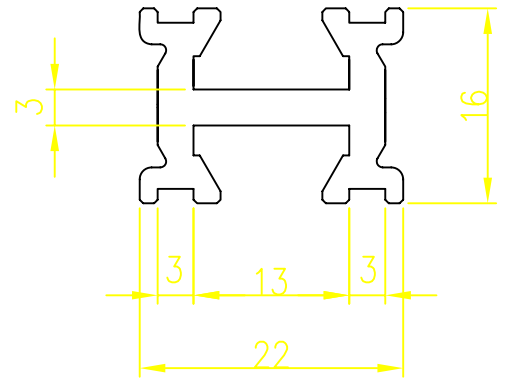
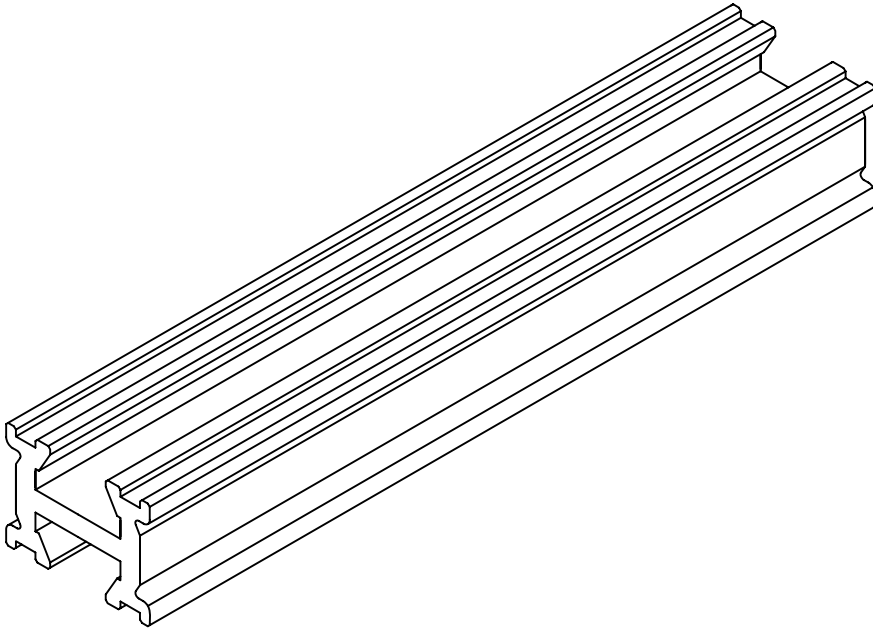
Suction Pad
Lock Nut
T102524C



Suction Pad Rail

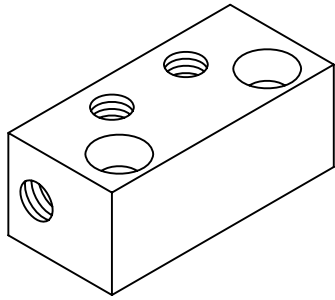
T102525C

Different Length Available

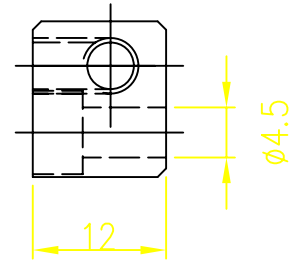
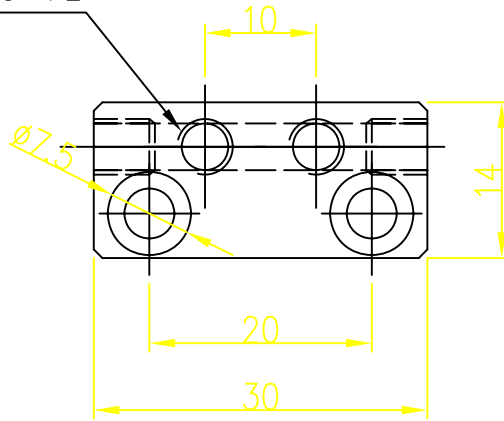


Air Pressure
Separate Block (4 Holes)

AC08004C

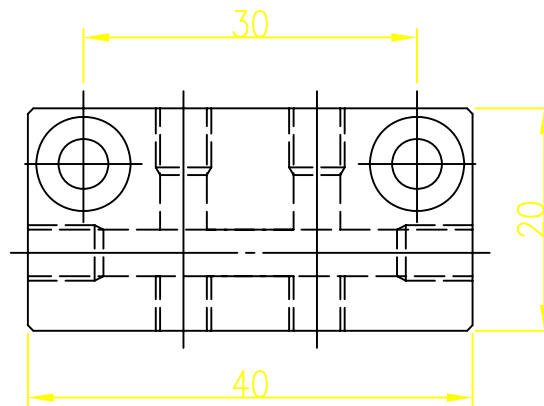
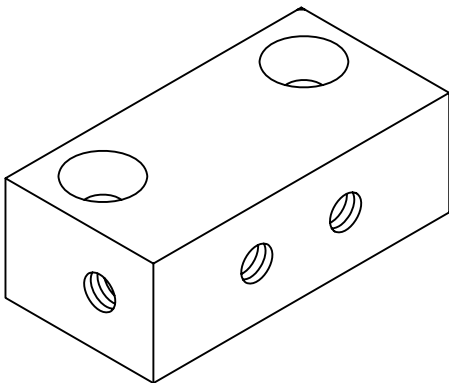


4-M5-7L

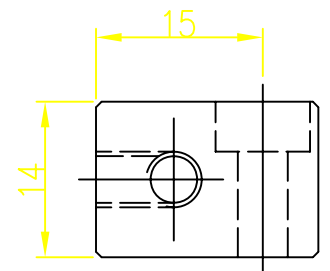
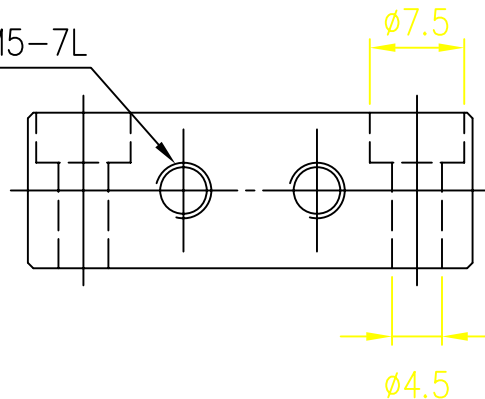


Air Pressure
Separate Block (6 Holes)

AC08012C

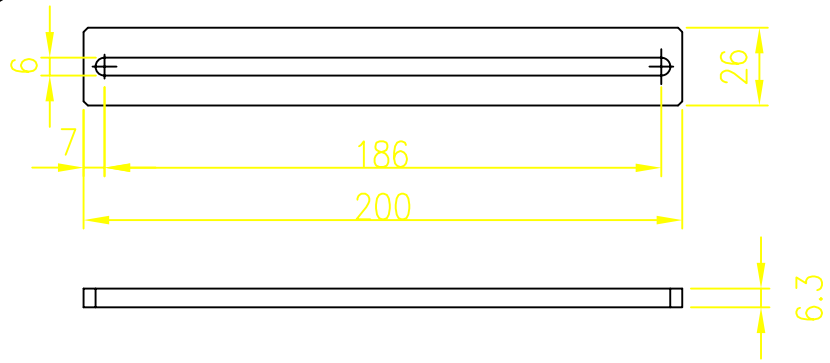
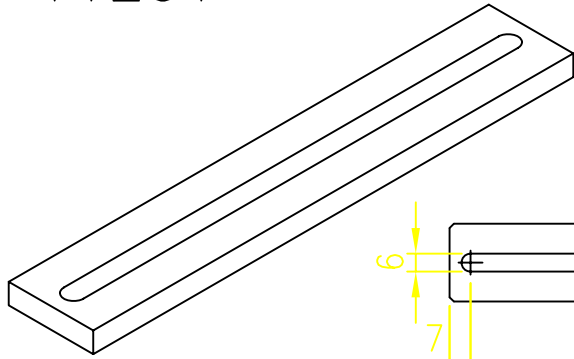


6-M5-7L



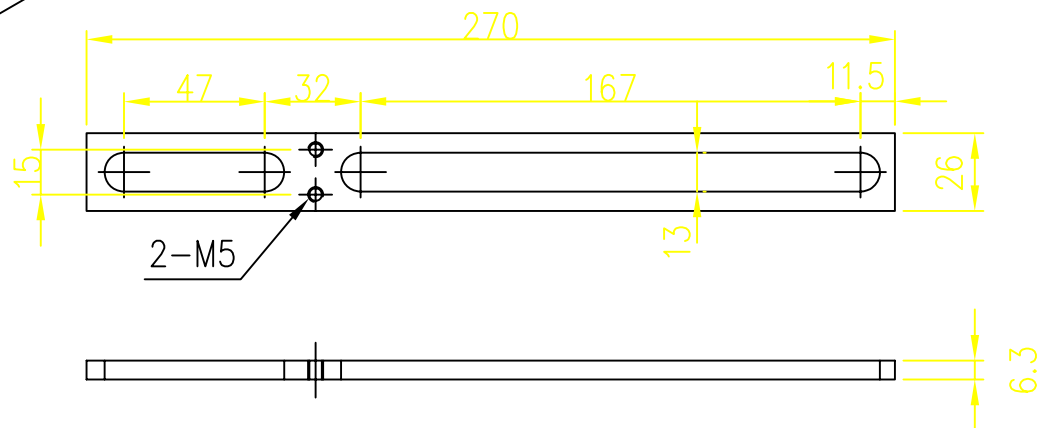
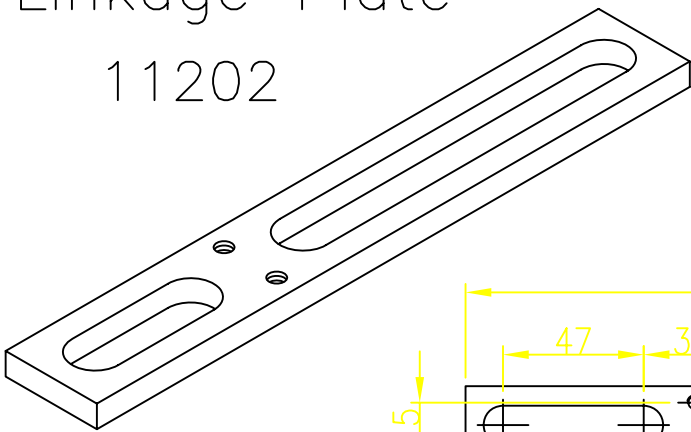
Jig Linkage Plate

11201



Suction Pad Linkage Plate

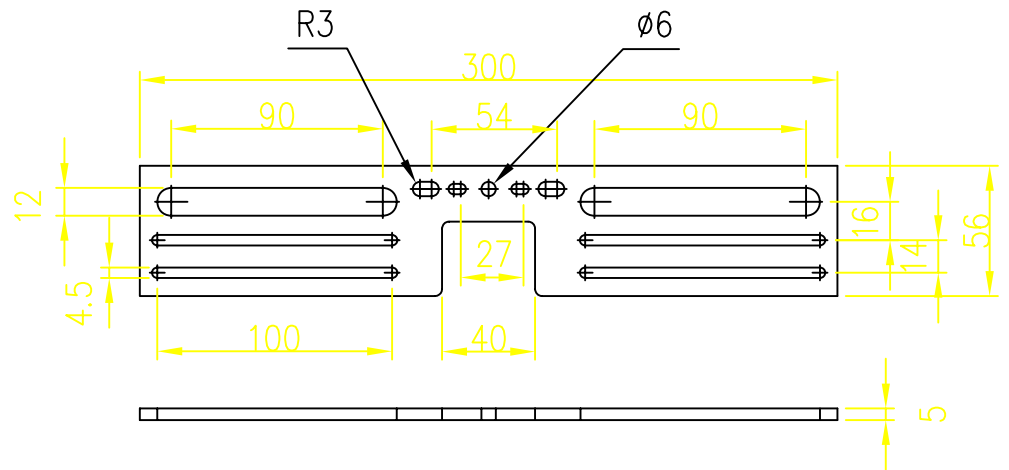
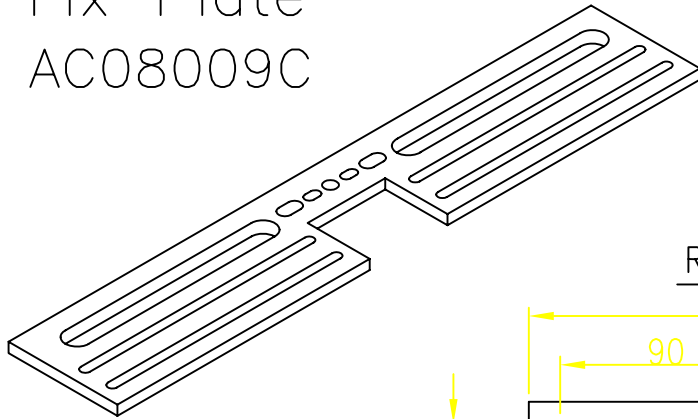
11202



Holder Cylinder

Fix Plate

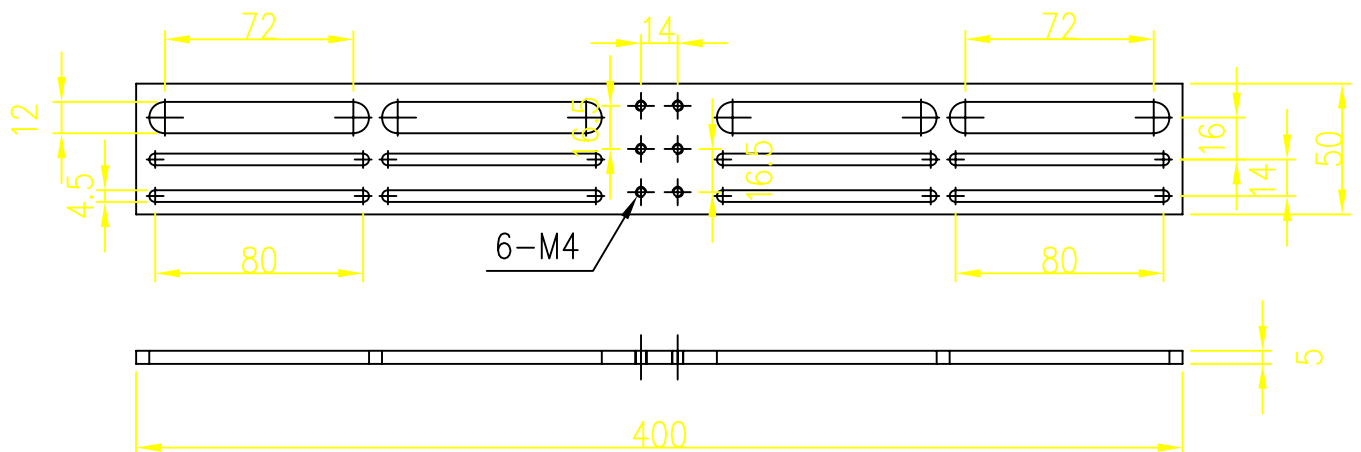
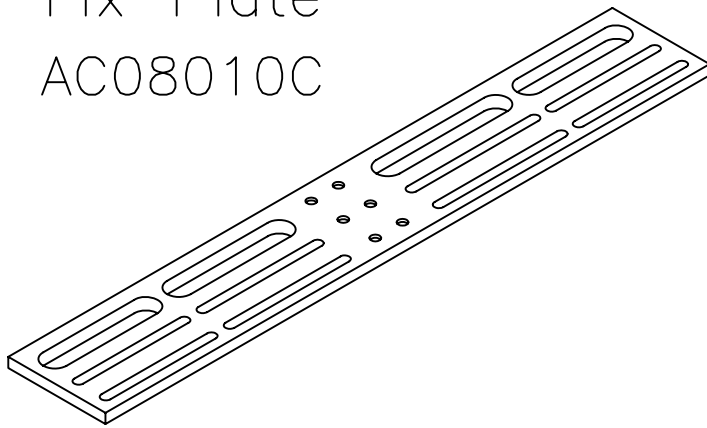
AC08009C



Holder Cylinder

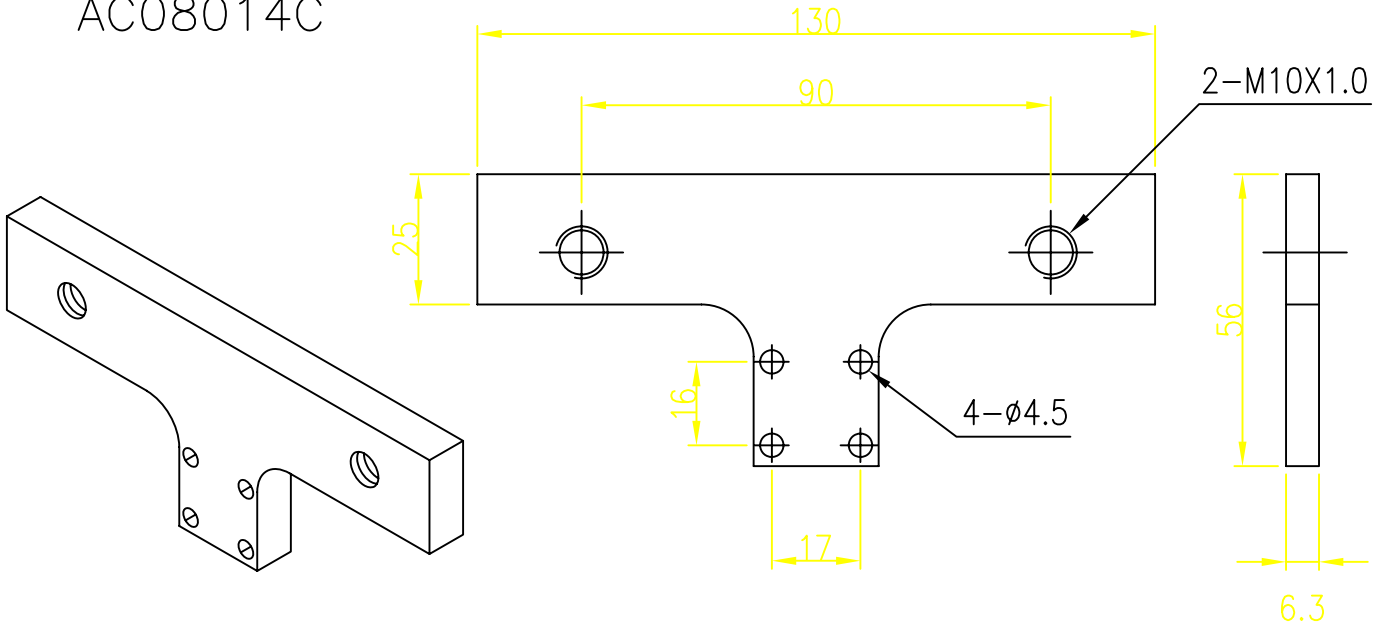
Fix Plate

AC08010C



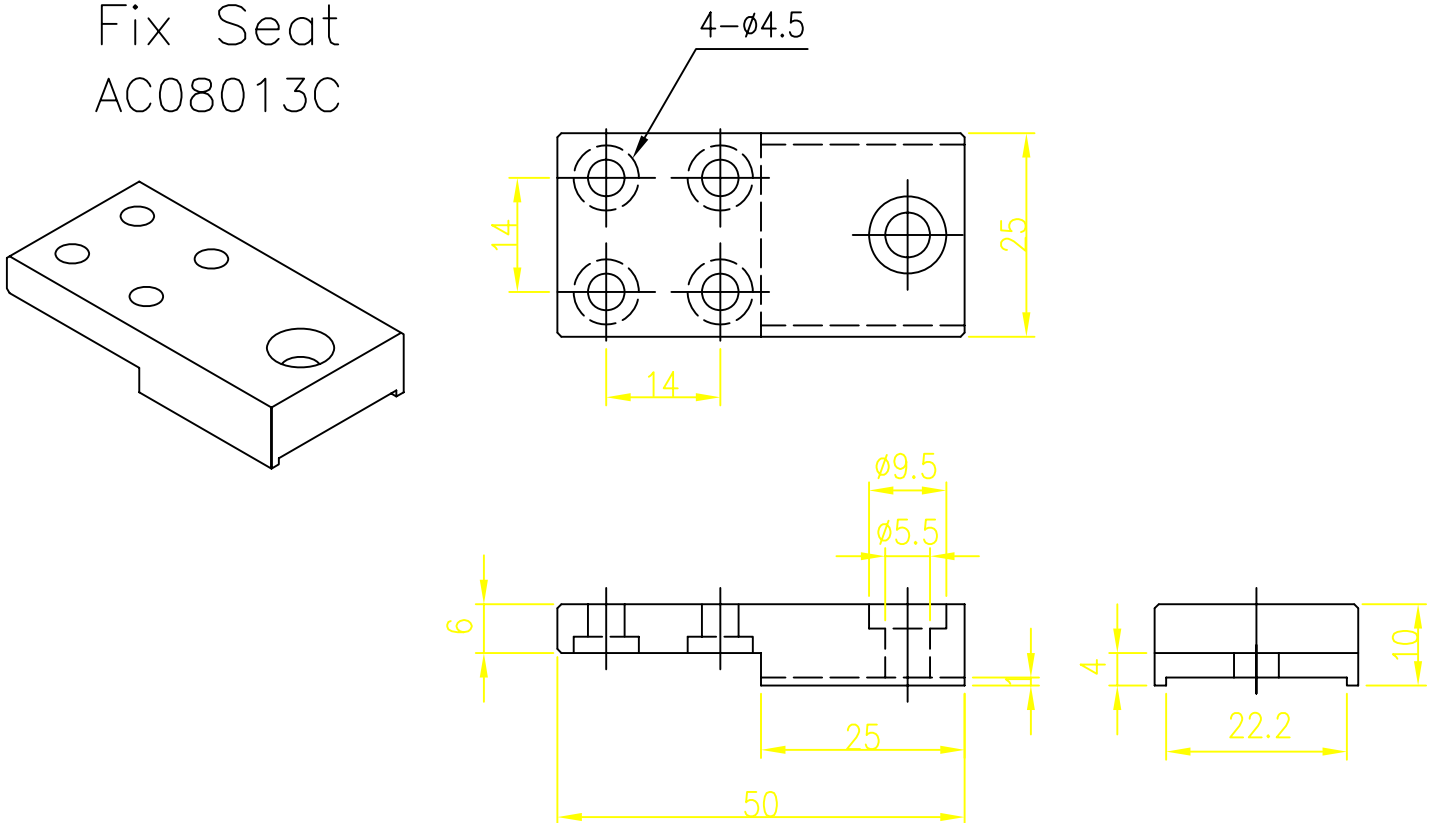
Holder Cylinder Suction Pad Seat

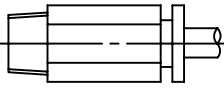
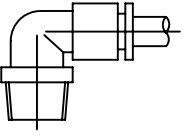
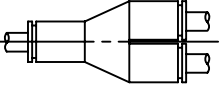
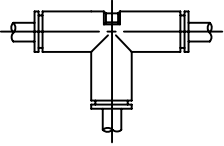
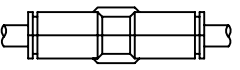
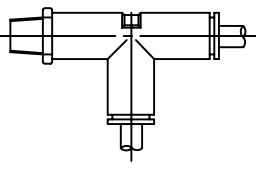
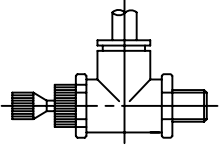
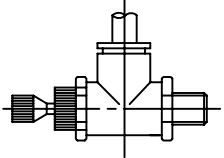
AC08014C



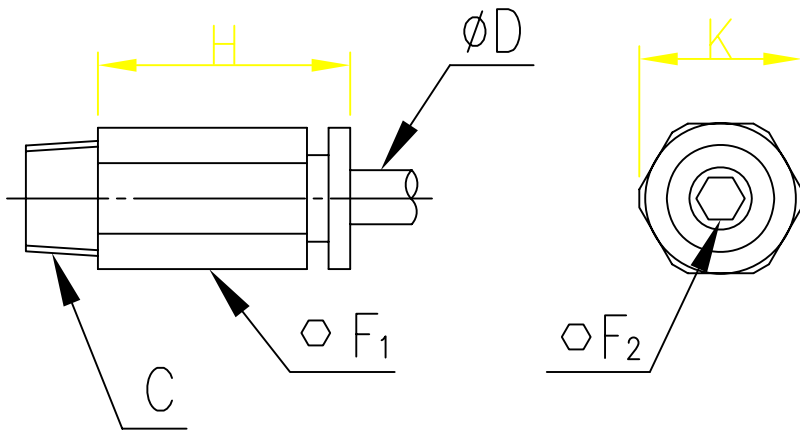
Holder Cylinder Fix Seat

AC08013C



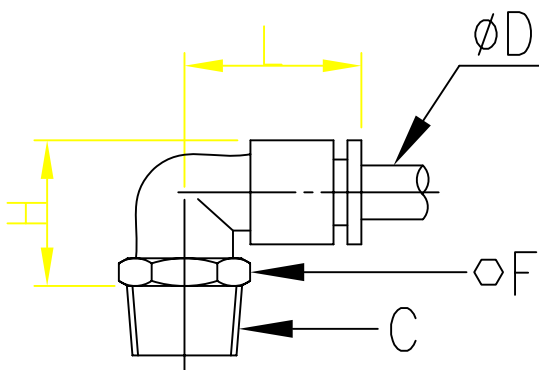
Type Drawn	Parts No.	Specification	Memo
	Speedy Connector	J3175-04-10 J3175-06-10 J3175-08-10	
	Speedy Connector 90°	J3109-04-10 J3109-06-10 J3109-08-10	
	3 way Y Connector	J3140-04-00 J3140-06-00 J3140-08-00	
	3 way T Connector	J3104-04-00 J3104-06-00 J3104-08-00	
	2 way Connector	J3106-04-00 J3106-06-00 J3106-08-00	
	3 way Threaded Connector	J3103-04-10 J3103-06-10 J3103-08-10	
	Flow Control Valve	JM4R-M5-0 JM4R-01-0	
	Flow Control Valve	J6R-M5SC-0 J6R-01SC-0	

Speedy Connector



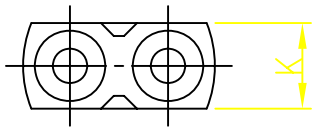
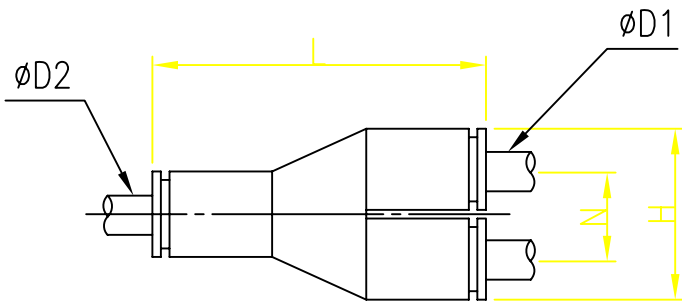
ϕD	C	MODEL	F ₁	F ₂	H	K
4	1/8	J3175-04-10	10	3	15	11
6	1/8	J3175-06-10	11	4	17.5	12
8	1/8	J3175-08-10	13	5	19.5	14

Speedy Connector 90°



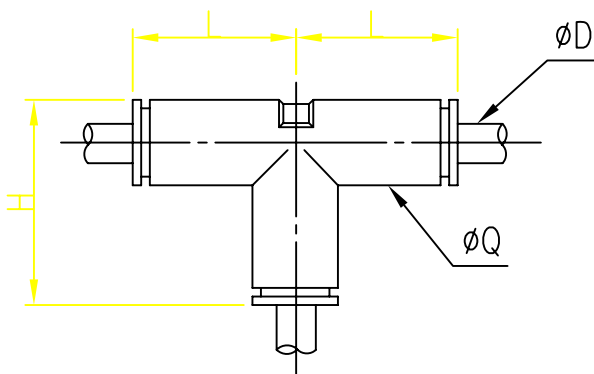
ϕD	C	MODEL	F	H	L
4	1/8	J3109-04-10	10	13.5	19.5
6	1/8	J3109-06-10	10	19	22.5
8	1/8	J3109-08-10	12	22	24.5

3 way Y connector



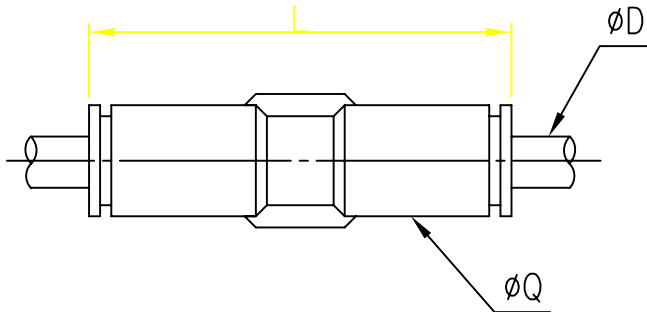
$\phi D1$	$\phi D2$	MODEL	H	K	L	N
4	4	J3140-04-00	22	11	15	11
6	6	J3140-06-00	28	13	17.5	14
8	8	J3140-08-00	32	15	19.5	16

3 way T connector



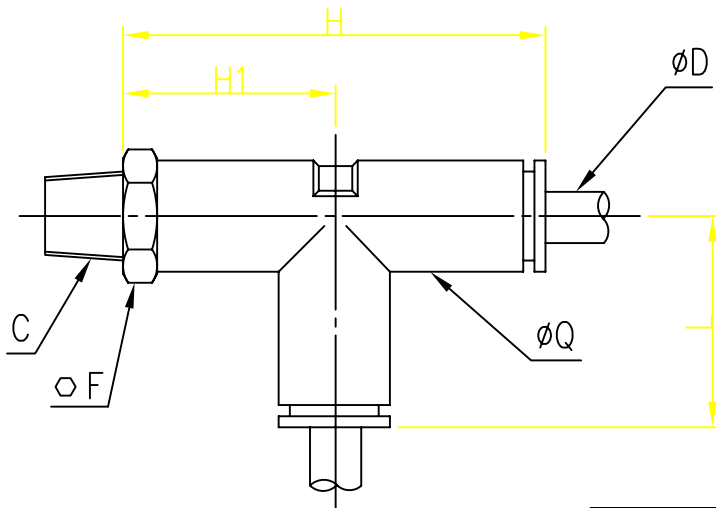
ϕD	MODEL	ϕQ	H	L
4	J3104-04-00	11	23.5	18
6	J3104-06-00	14	27.5	20.5
8	J3104-08-00	16	30.5	22.5

2 way connector



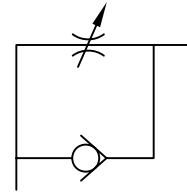
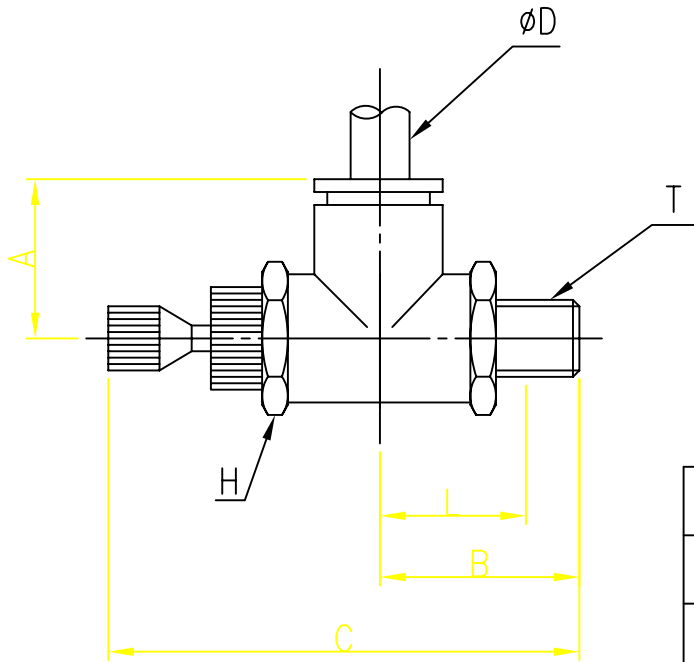
ϕD	MODEL	ϕQ	L
4	J3106-04-00	11	36
6	J3106-06-00	13.5	41
8	J3106-08-00	16	45

3 way Threaded connector



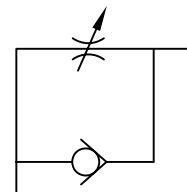
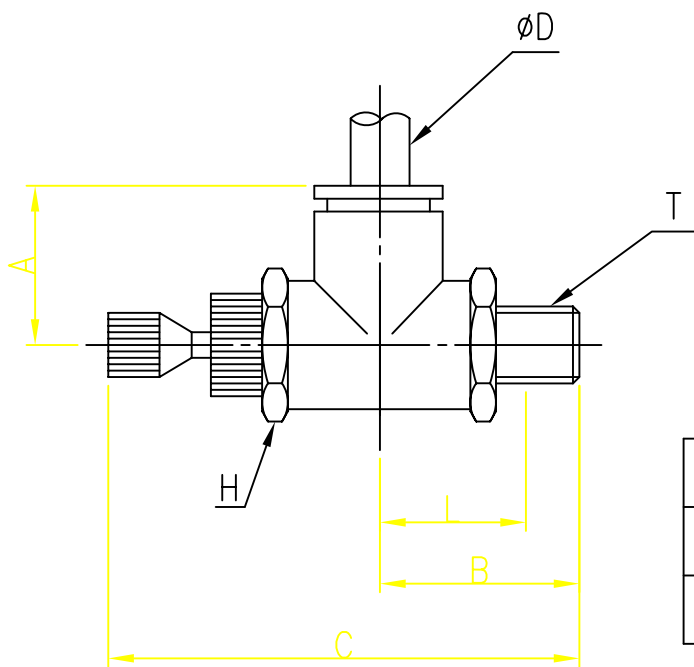
ϕD	C	MODEL	F	ϕQ	H	H1	L
4	1/8	J3103-04-10	10	11	38	20	18
6	1/8	J3103-06-10	13	13	44	24	20
8	1/8	J3103-08-10	14	16	48	25	22

Flow control Valve

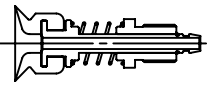
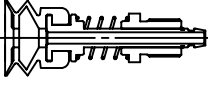
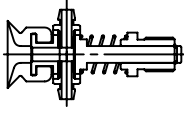
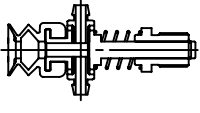
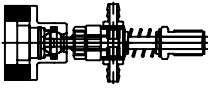
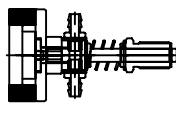
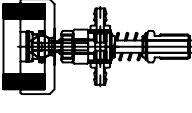
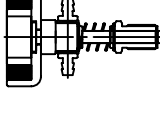

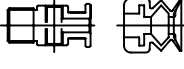
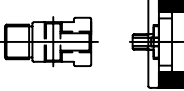
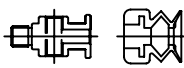
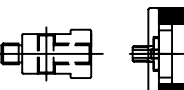


ϕD	T	MODEL	A	B	C	H	L
4	M5	JM4R-M5-0	19	14	31	8	10
4	1/8	JM4R-01-0	19	16	34	10	12

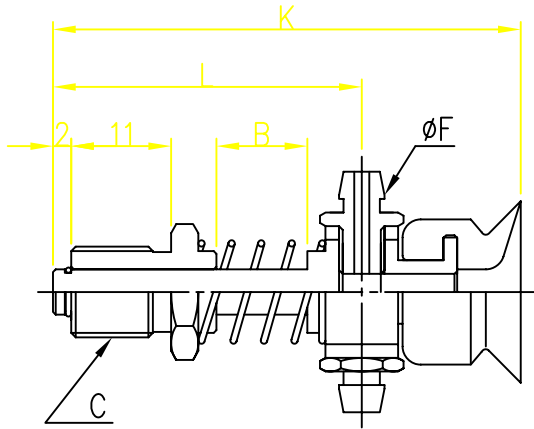
Flow control Valve



ϕD	T	MODEL	A	B	C	H	L
6	M5	J6R-M5SC-0	22	16	36	12	12
6	1/8	J6R-01SC-0	22	19	39	12	15

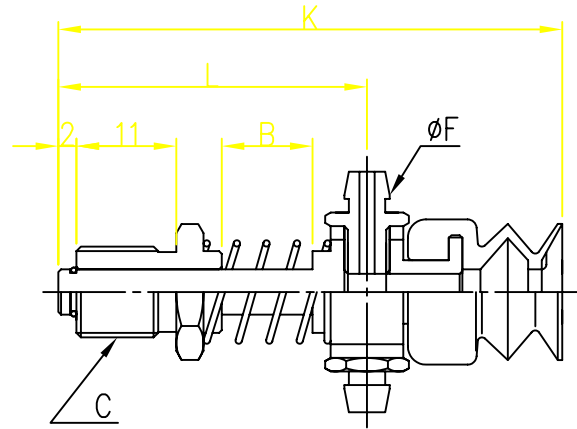
Type Drawn	Parts No.	Specification	Memo
	Face Pad Vertical +T102500C-6	ø10 ø15 ø20 ø25 ø30 ø40 ø50	Without Suction cup
	Face Pad Vertical +T102500C-6	ø5 ø10 ø15 ø20 ø25 ø30 ø40	Without Suction cup
	Face Pad Vertical +T102500C-2	ø10 ø15 ø20 ø25 ø30 ø40 ø50	Without Suction cup
	Face Pad Vertical +T102500C-2	ø5 ø10 ø15 ø20 ø25 ø30 ø40	Without Suction cup
	Sponge Pad Universal AC02000E-35 AC02000E-50	ø35 ø50	With Sponge Pad
	Sponge Pad Vertical AC02100E-35 AC02100E-50	ø35 ø50	With Sponge Pad
	Sponge Pad Universal AC02200E-35 AC02200E-50	ø35 ø50	With Sponge Pad
	Sponge Pad Vertical AC02300E-35 AC02300E-50	ø35 ø50	With Sponge Pad
	Sponge Pad AC02006C01 AC02006C02	ø35 ø50	
	Glue Pad Connector (Use In Frame)	Size M10X1.0	Without Suction cup AC08001C
	Sponge Pad Connector (Use In Frame)	Size M10X1.0	Without Sponge Pad AC08002C
	Glue Pad Connector (Use In Plate)	Size M6X1.0	Without Suction cup AC08005C
	Sponge Pad Connector (Use In Plate)	Size M6X1.0	Without Sponge Pad AC08006C

Face Pad Vertical

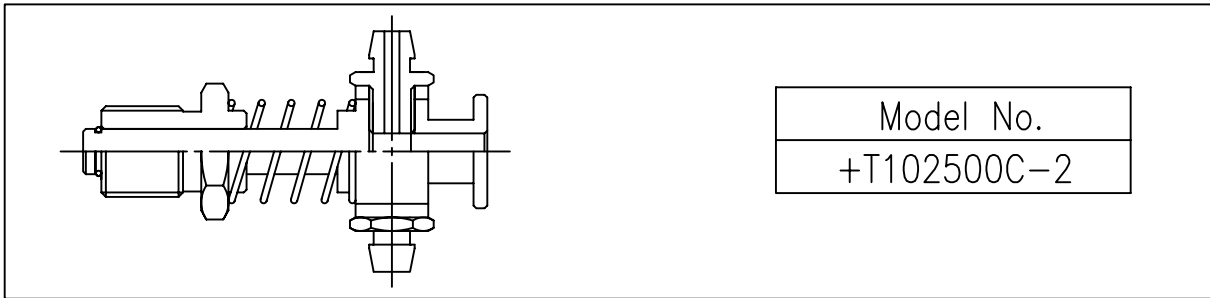


ϕF	L	B	K	C
6	35	10	53	M10

Face Pad Vertical



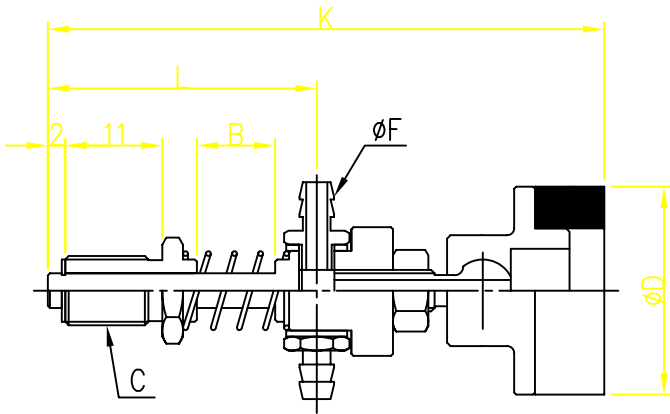
ϕF	L	B	K	C
6	35	10	57	M10



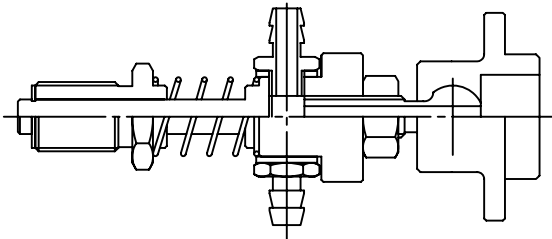
	ϕD	Parts No.	ϕD	Parts No.
	$\phi 10$	T102507C	$\phi 30$	T102503C
	$\phi 15$	T102506C	$\phi 40$	T102502C
	$\phi 20$	T102505C	$\phi 50$	T102501C
	$\phi 25$	T102504C		

	ϕD	Parts No.	ϕD	Parts No.
	$\phi 5$	T102514C	$\phi 25$	T102510C
	$\phi 10$	T102513C	$\phi 30$	T102509C
	$\phi 15$	T102512C	$\phi 40$	T102508C
	$\phi 20$	T102511C		

Sponge Pad Universal

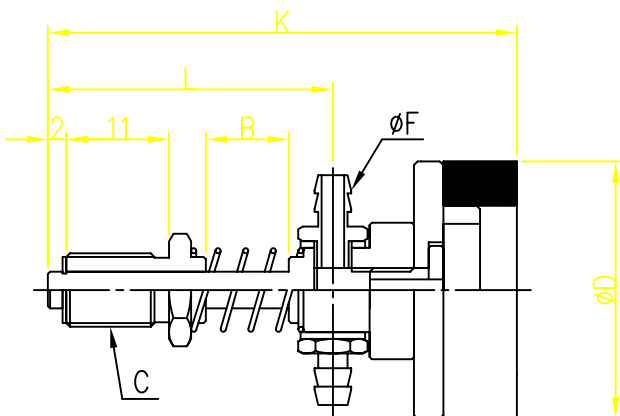


Model No.	ϕD	ϕF	L	B	K	C
AC02000E01	$\phi 35$	6	35	10	80	M10
AC02000E02	$\phi 50$					

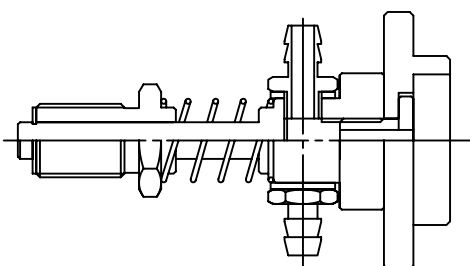


Model No.
AC02000E-35
AC02000E-50

Sponge Pad Vertical

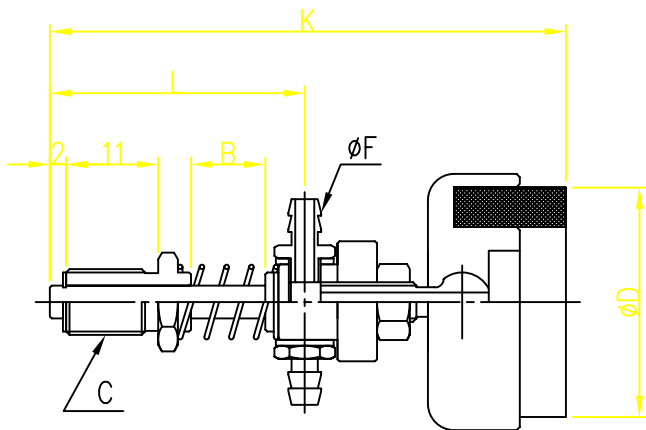


Model No.	ϕD	ϕF	L	B	K	C
AC02100E01	$\phi 35$	6	35	10	70	M10
AC02100E02	$\phi 50$					

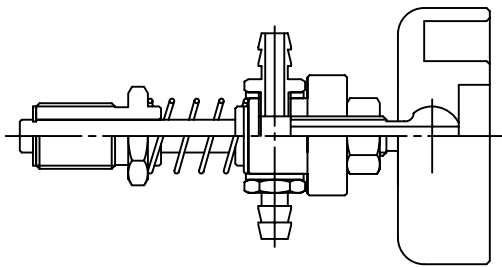


Model No.
AC02100E-35
AC02100E-50

Sponge Pad Universal

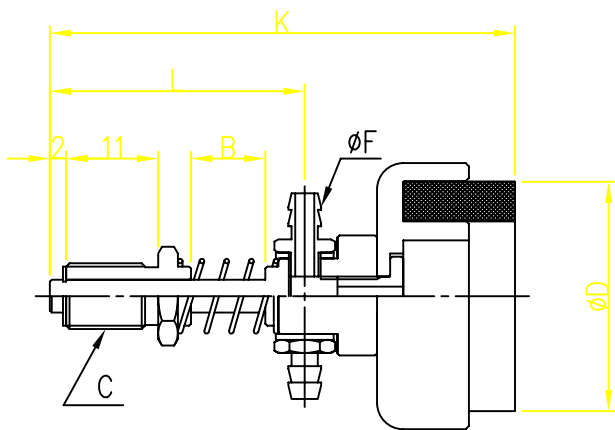


Model No.	φD	φF	L	B	K	C
AC02200E01	φ35	6	35	10	86	M10
AC02200E02	φ50					

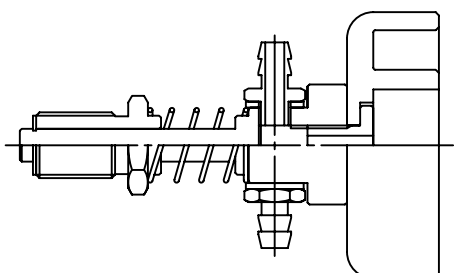


Model No.
AC02200E-35
AC02200E-50

Sponge Pad Vertical

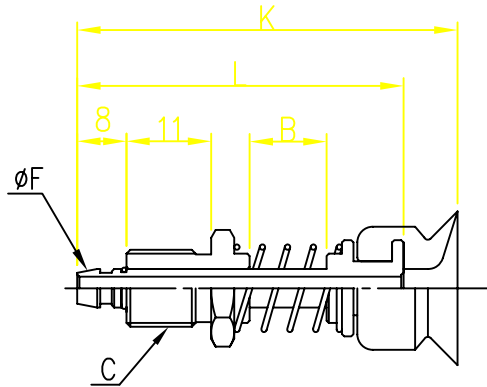


Model No.	φD	φF	L	B	K	C
AC02300E01	φ35	6	35	10	74	M10
AC02300E02	φ50					



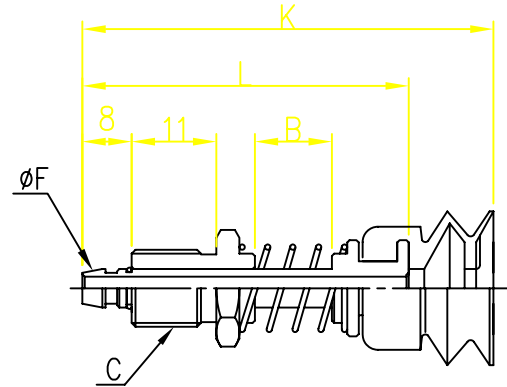
Model No.
AC02300E-35
AC02300E-50

Face Pad Vertical

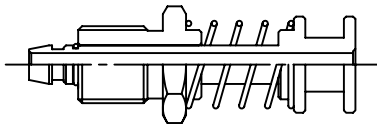


ØF	L	B	K	C
6	50	10	58	M10

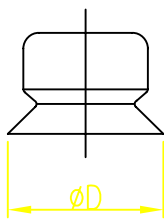
Face Pad Vertical



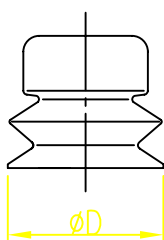
ØF	L	B	K	C
6	50	10	62	M10



Model No.
+T102500C-6

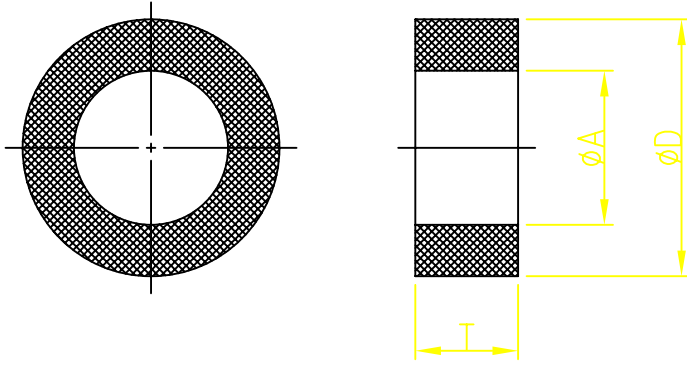


ØD	Parts No.	ØD	Parts No.
Ø10	T102507C	Ø30	T102503C
Ø15	T102506C	Ø40	T102502C
Ø20	T102505C	Ø50	T102501C
Ø25	T102504C		



ØD	Parts No.	ØD	Parts No.
Ø5	T102514C	Ø25	T102510C
Ø10	T102513C	Ø30	T102509C
Ø15	T102512C	Ø40	T102508C
Ø20	T102511C		

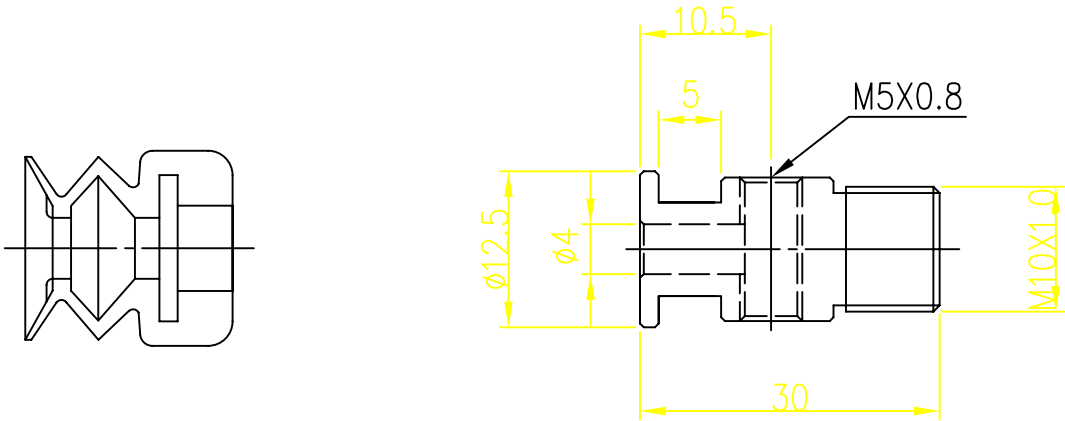
Sponge Pad



Model No.	ϕD	ϕA	T
AC02006C01	$\phi 35$	$\phi 23$	20
AC02006C02	$\phi 50$	$\phi 36$	

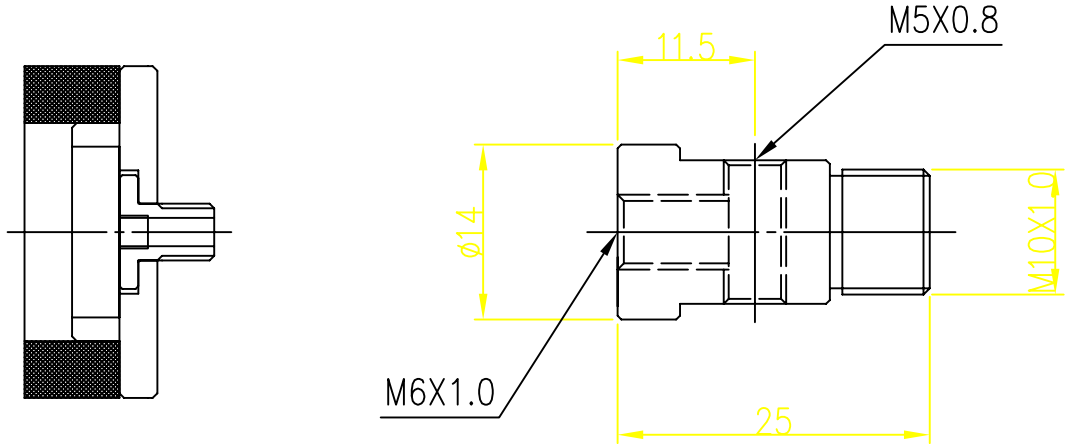
Glue Pad
Connector
(Use In Frame)

MODEL:AC08001C



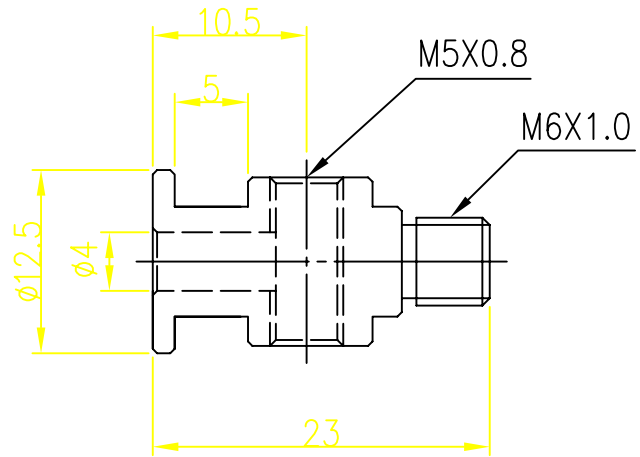
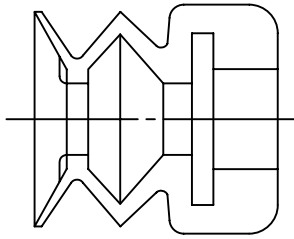
Sponge Pad
Connector
(Use In Frame)

MODEL:AC08002C



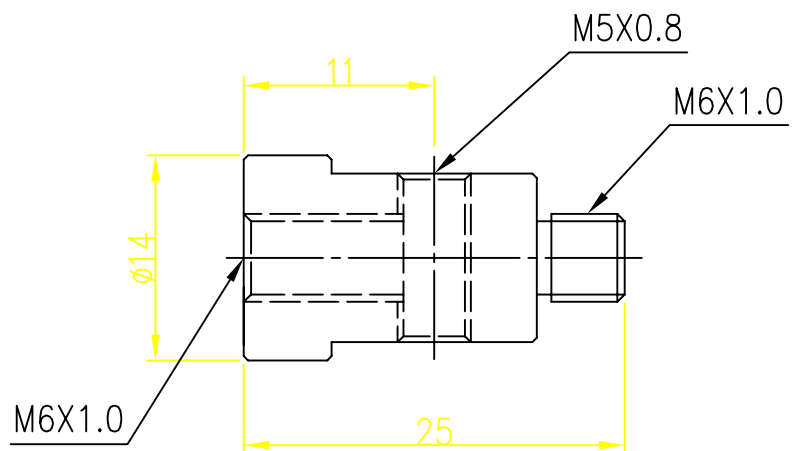
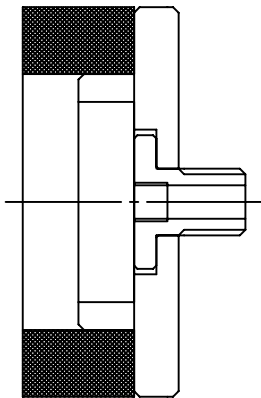
Glue Pad
Connector
(Use In Plate)

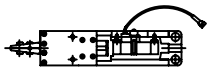
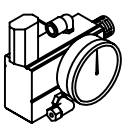
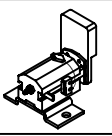
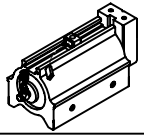
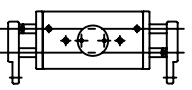
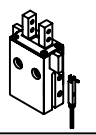
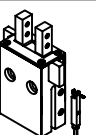
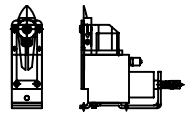
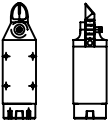
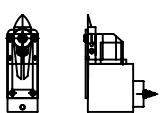

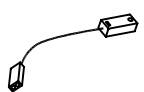
MODEL:AC08005C



Sponge Pad
Connector
(Use In Plate)

MODEL:AC08006C

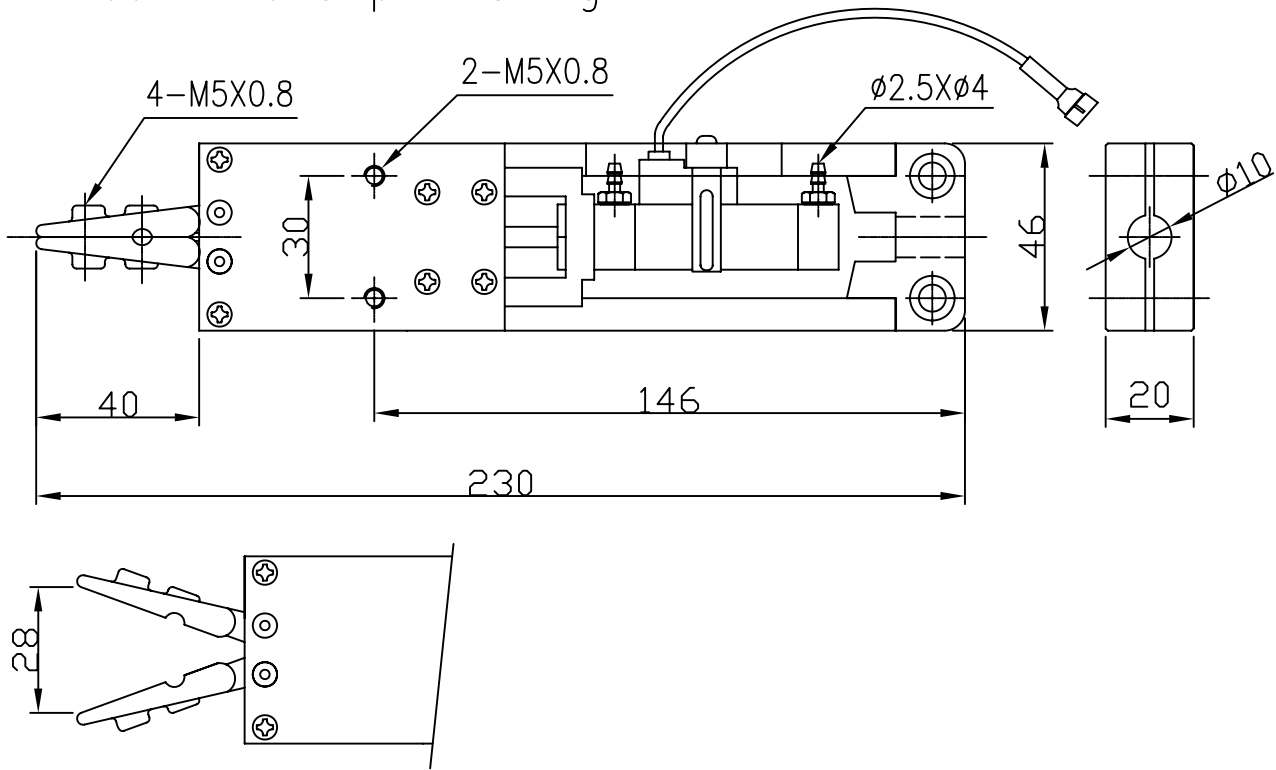


Type Drawn	Parts No.	Specification	Memo
	Gripper Assembly 11100		
	Vacuum Generator S107200C-AT S107200C-ST Y107200C	S107200C-100-02 S107200C-100-01 Y107200C-100-01	For AT/ATM For ST For YS
	Holder Cylinder (A) 70001	Cylinder Size ø12	
	Holder Cylinder (B) T102700C	Cylinder Size ø32	T102700C-100
	Parallel Air Holder AC04000E	Holding 2.3 (kgf)	
	Parallel Air Holder AC05000E	Holding 0.8 (kgf)	
	Parallel Air Holder AC06000E	Holding 1.7 (kgf)	
	Air Cutter	ME-3 ME-5 ME-10 ME-20	Made in Japan
	Air Cutter	MS-3 MS-5 MS-10 MS-20 MS-30	Made in Japan
	Air Cutter	MF-3 MF-5 MF-10	Made in Japan
	Micro Switch	SWI0000SS-5GL	
	Reed Switch	SENZE102A SENOCS-3000	

Gripper Assembly

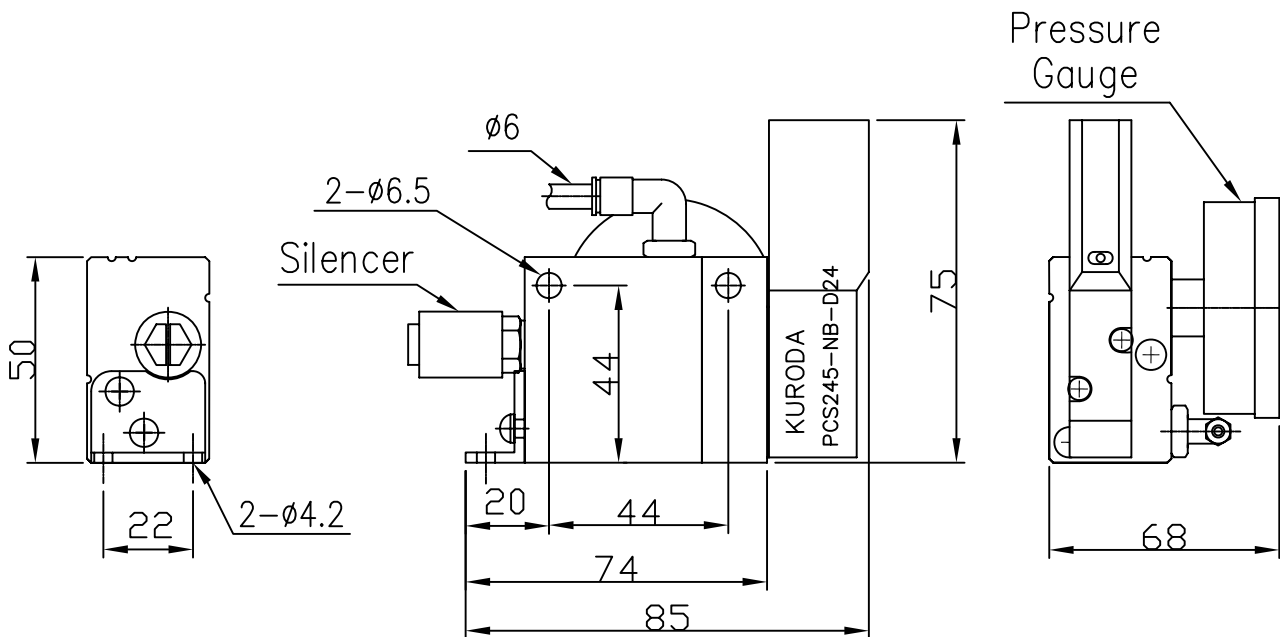
MODEL:11100

With reed switch for easy adjustment, verification and positioning.



Vacuum Generator

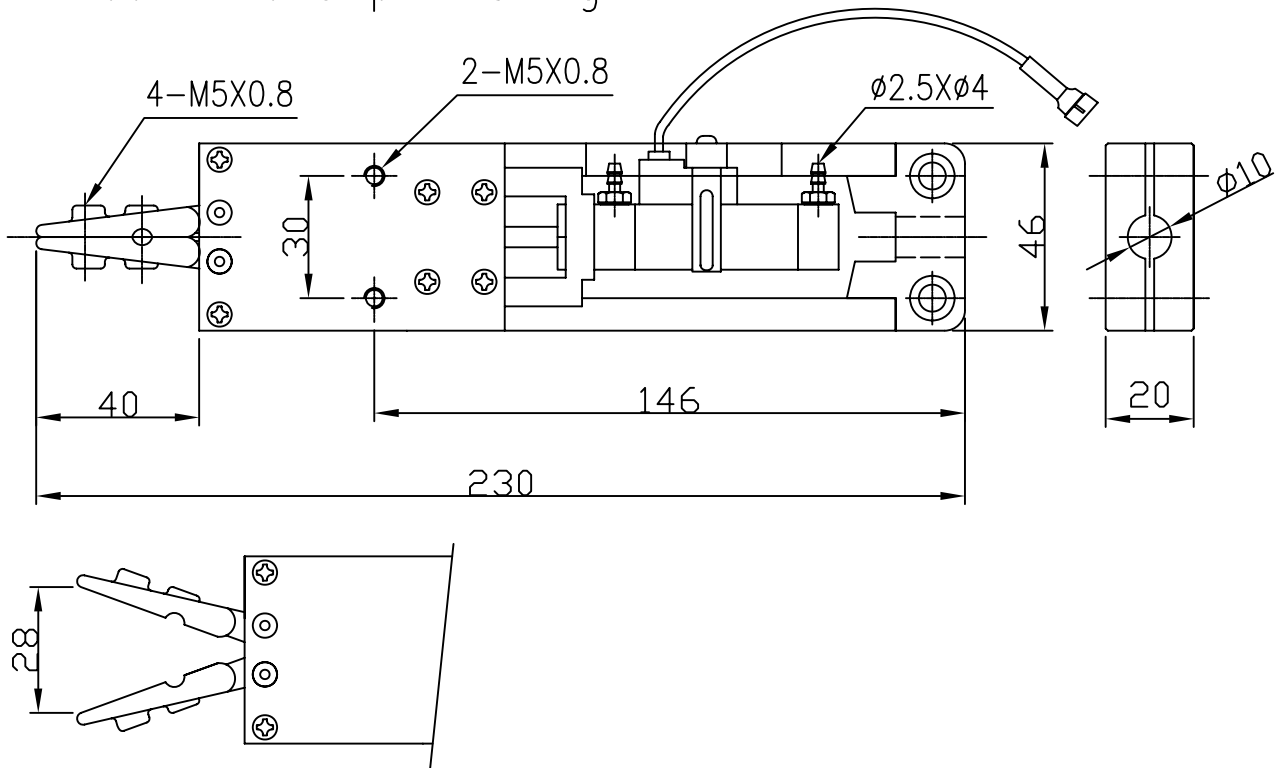
MODEL:S107200C-AT (For AT/ATM)
 S107200C-ST (For ST)
 Y107200C (For YS)



Gripper Assembly

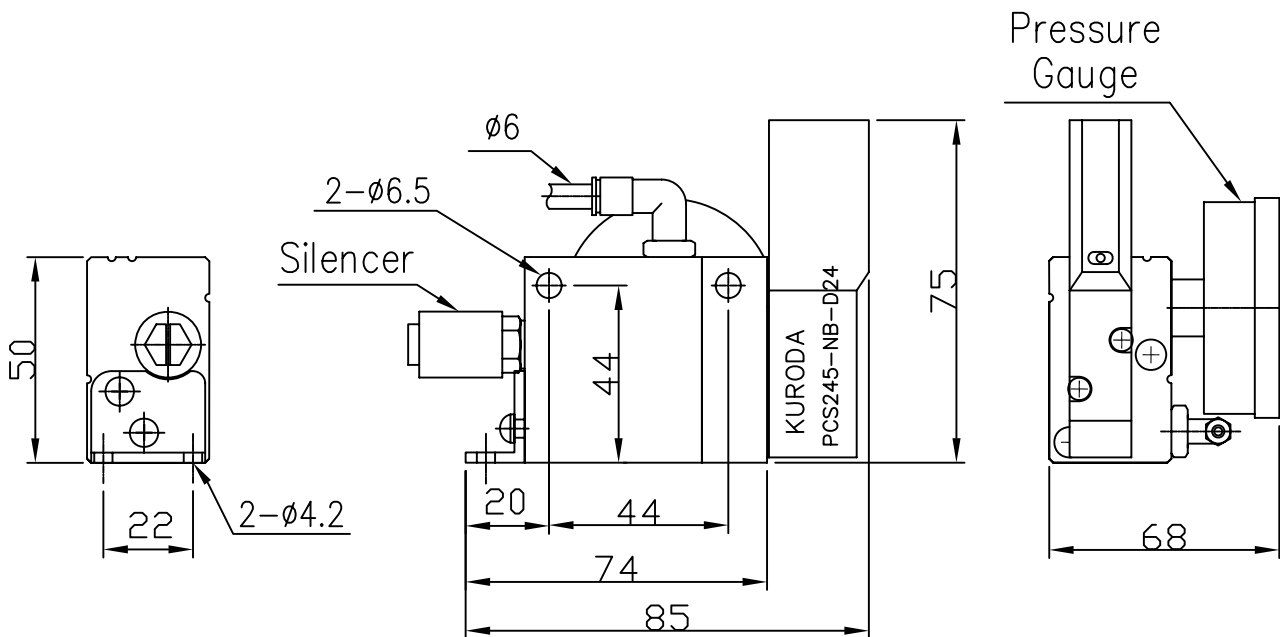
MODEL:11100

With reed switch for easy adjustment, verification and positioning.



Vacuum Generator

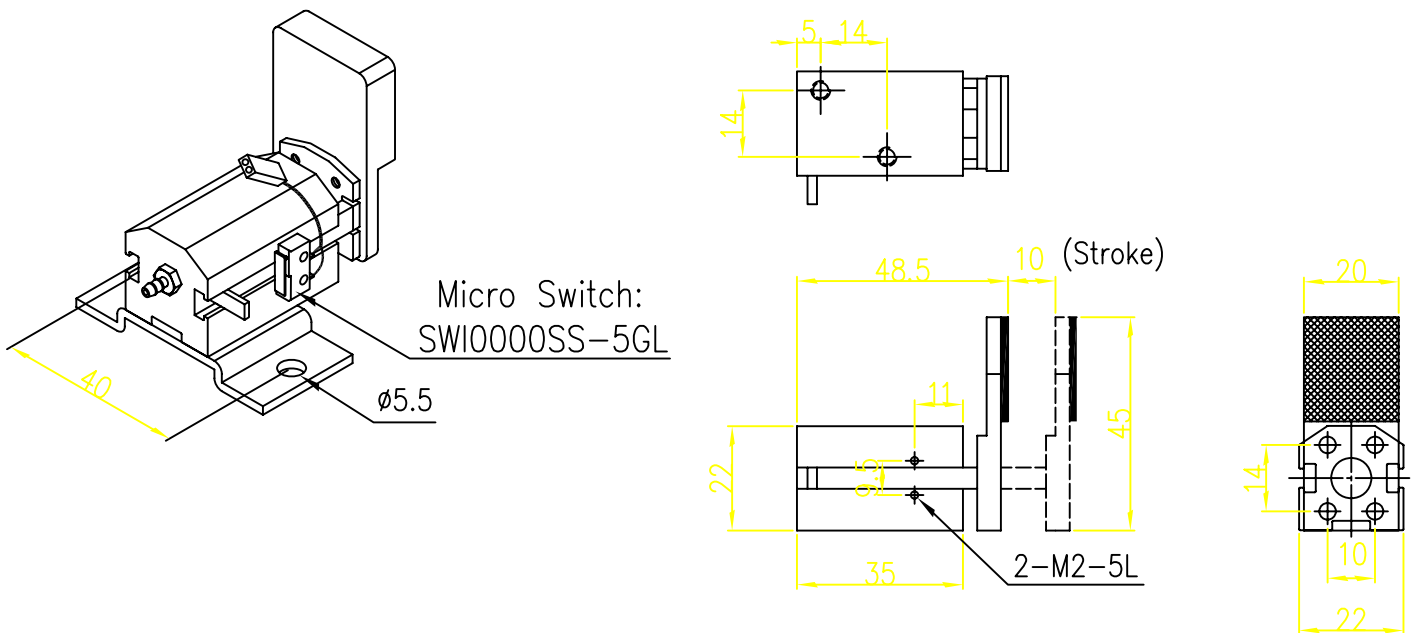
MODEL:S107200C-AT (For AT/ATM)
 S107200C-ST (For ST)
 Y107200C (For YS)



Holder
Cylinder (A)

MODEL:70001

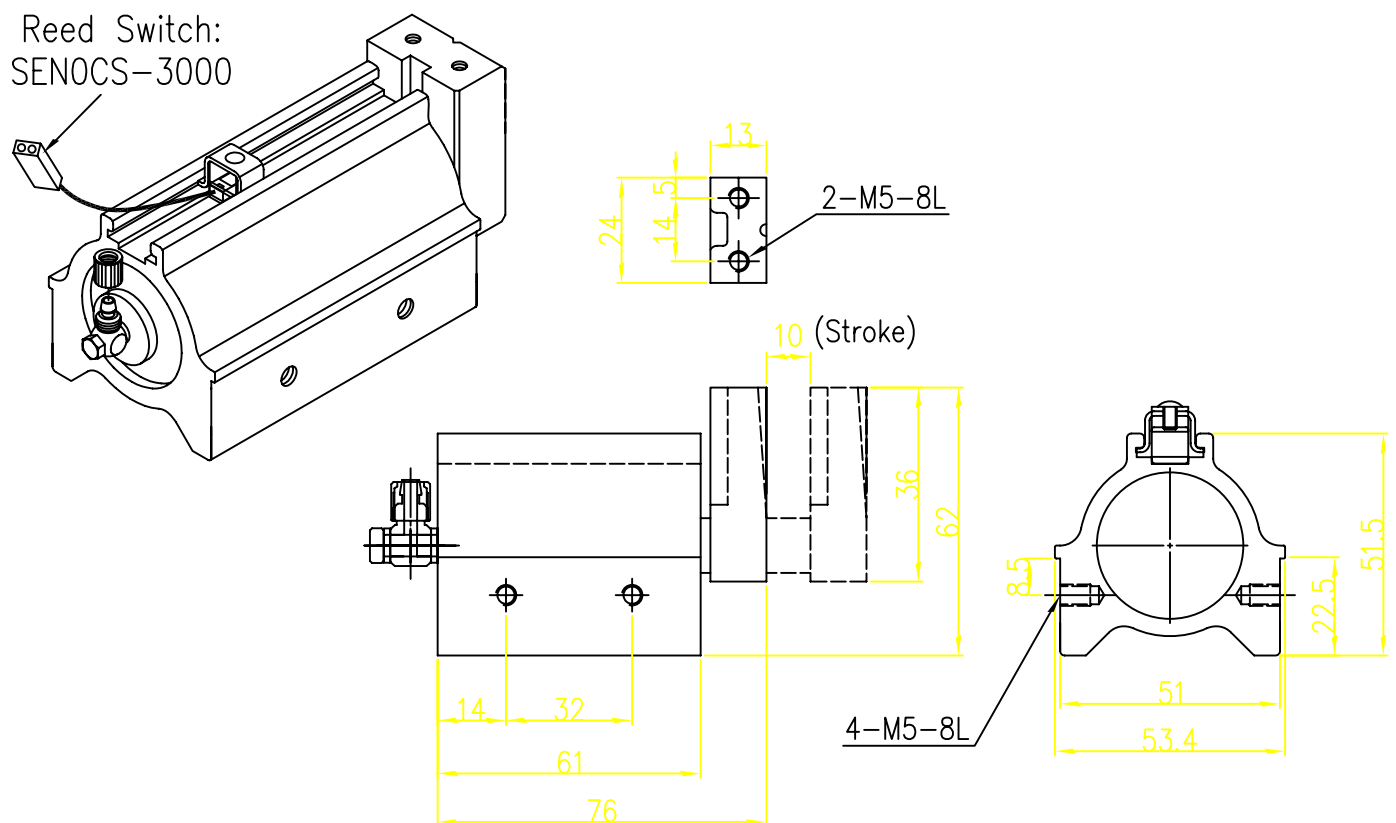
With micro switch for verification.



Holder
Cylinder (B)

MODEL:T102700C

With reed switch for easy adjustment, verification and positioning.



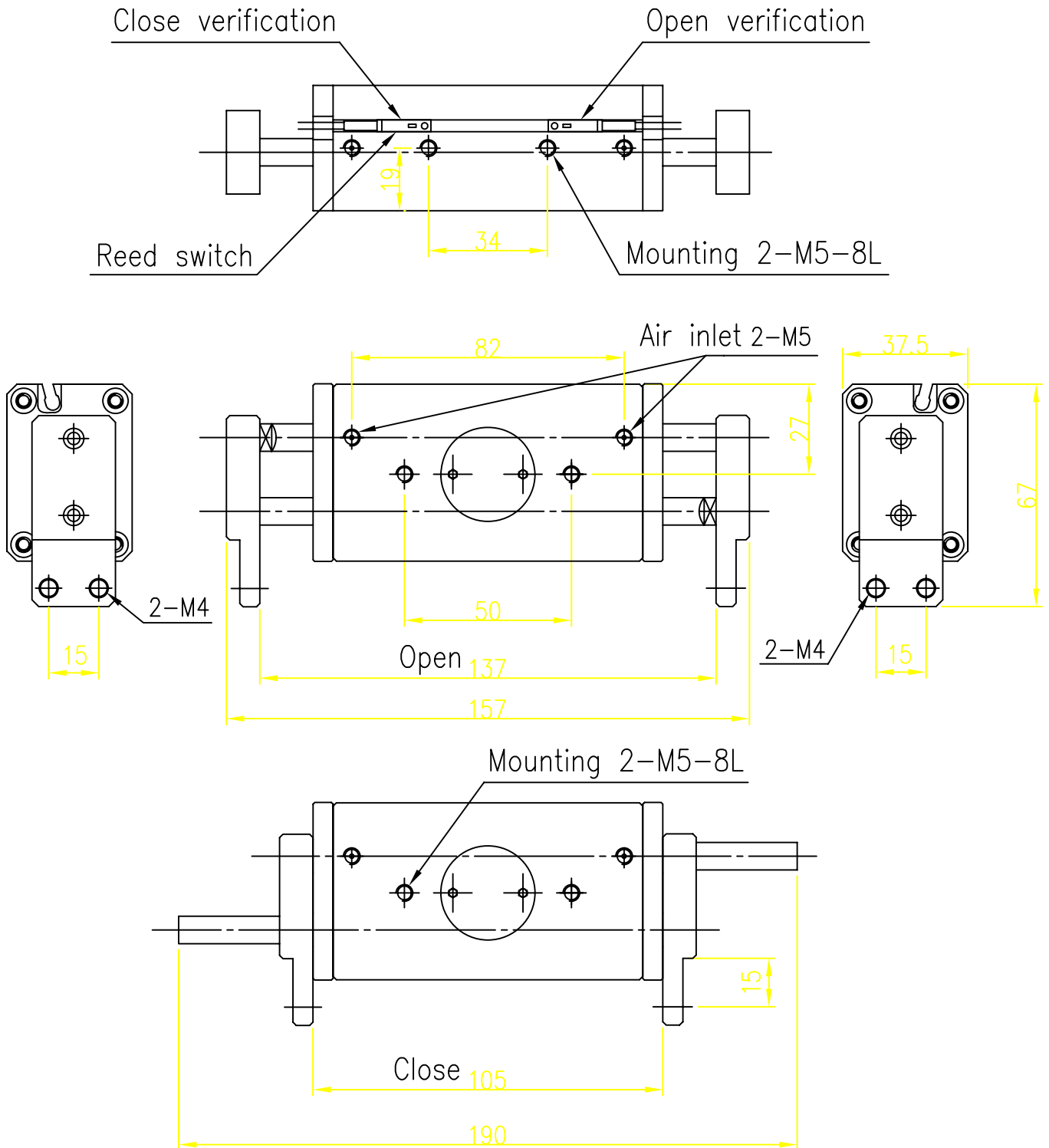
Parallel Air Holder

MODEL:AC04000E

Holding:2.3kgf

Weight:744g

With reed switch for easy adjustment, verification and positioning.



Parallel
Air Holder

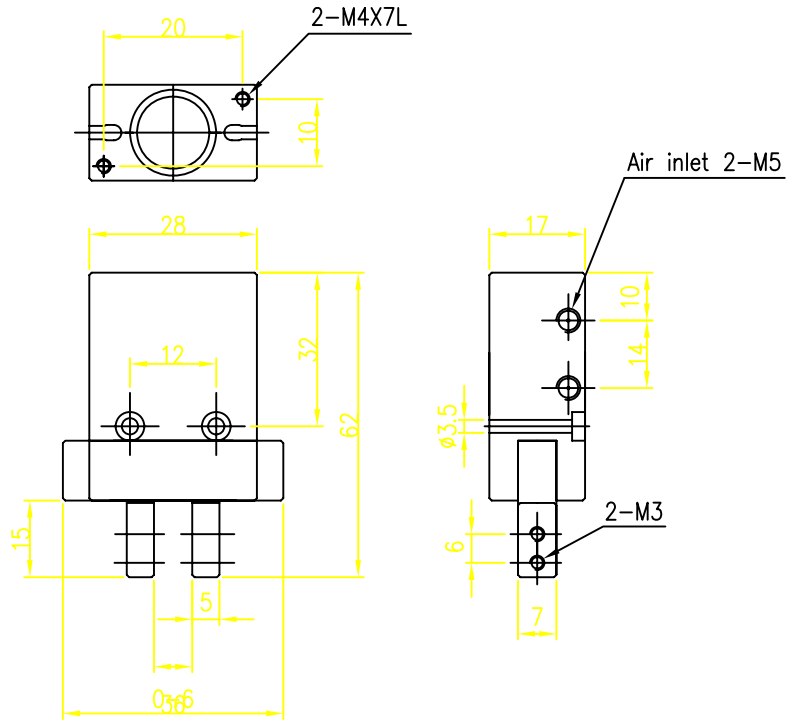
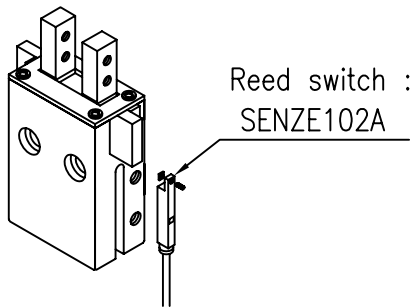
MODEL:AC05000E

With reed switch for easy adjustment,verification and positioning.

Stroke:6mm

Holding:0.8kgf

Weight:75g



Parallel
Air Holder

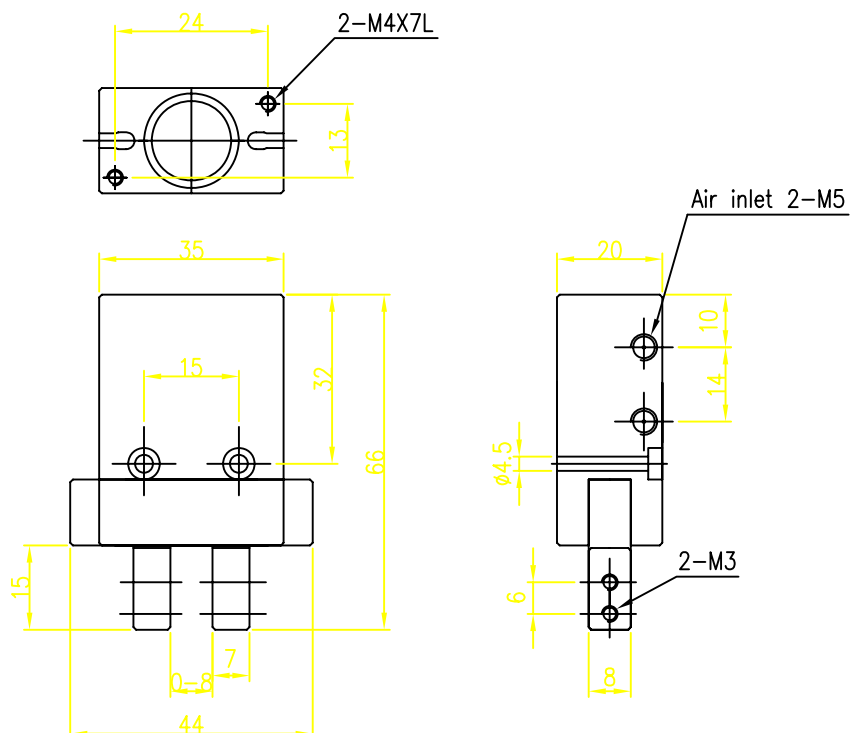
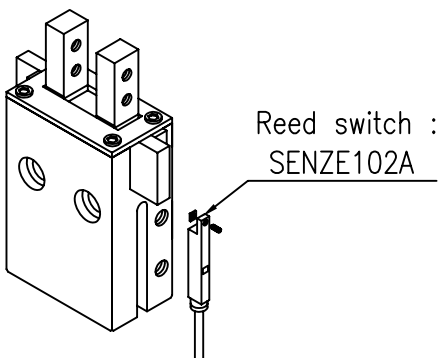
MODEL:AC06000E

With reed switch for easy adjustment,verification and positioning.

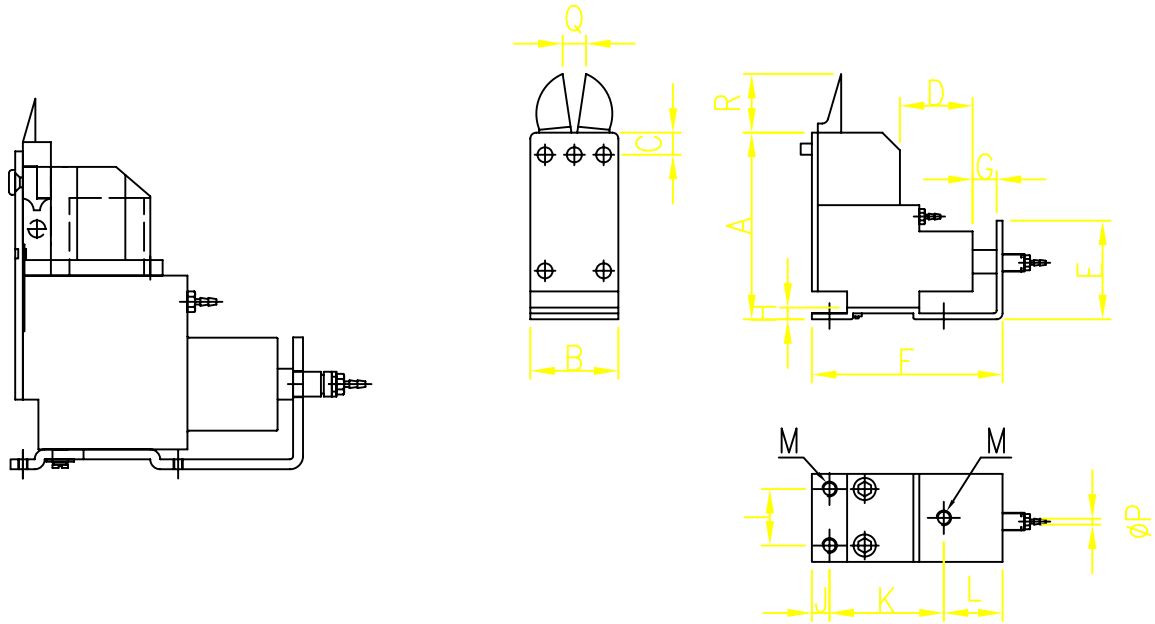
Stroke:8mm

Holding:1.7kgf

Weight:130g

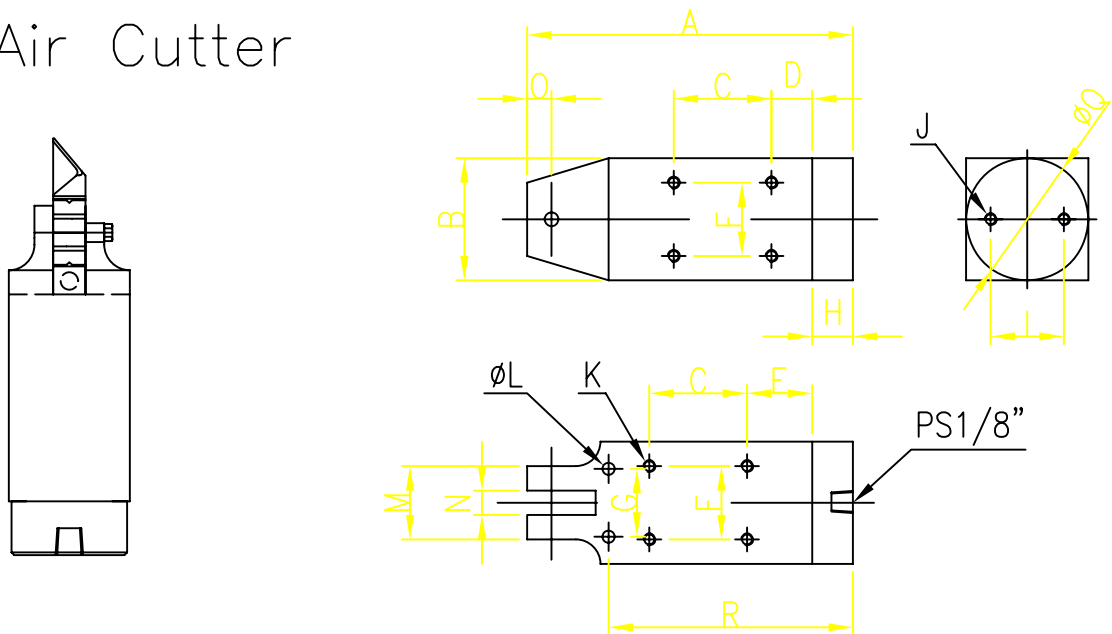


ME Air Cutter



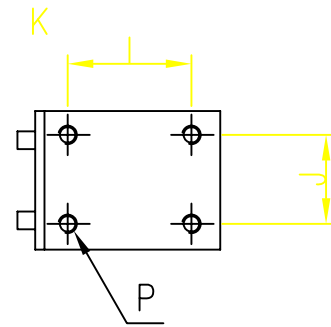
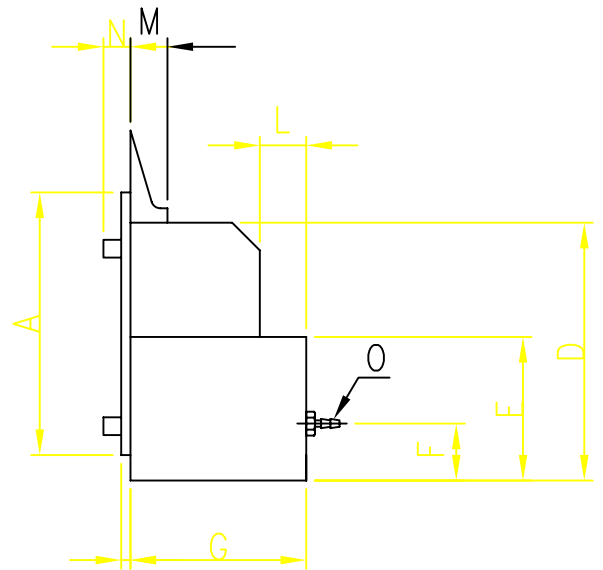
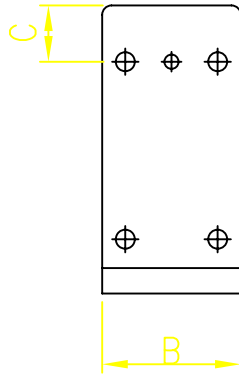
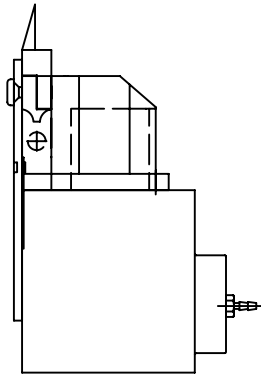
MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	P	Q	R	Cutting Diameter
ME-3	74	20	8	33	34	71	3	6	14	2.5	50	18	M3	∅4	3.5~4	21	1.2
ME-5	75	29	9	30	31	77	3	6	22	5	50	22	M3	∅4	5.5~6	21	1.2
ME-10	97	35	10	39	42	88	3	6	26	5	50	33	M3	∅4	7~8	21	2.5
ME-20	111	44	13	42	48	103	5	6	34	5	85	13	M4	∅4	9~10	27	4.5
ME-30	149	56	15	51	64	127	5	6	40	7	85	35	M4	∅4	15~16	50	6.0

MS Air Cutter



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	R	Cutting Diameter
MS-3	89	20	40	19	24	16	14	21	14	M3	M3	3.3	20	7	7	71	1.0
MS-5	74	30	30	14	19	24	20	20	20	M4	M3	4.3	20	7	7	55	2.0
MS-10	93	36	30	18	23	28	28	20	24	M4	M4	4.3	20	9	7	65	4.0
MS-20	109	45	40	19	24	36	30	20	30	M5	M4	5.3	26	12	9	81	7.0
MS-30	150	56	60	20	30	46	40	20	40	M6	M5	5.3	36	17	15	110	10

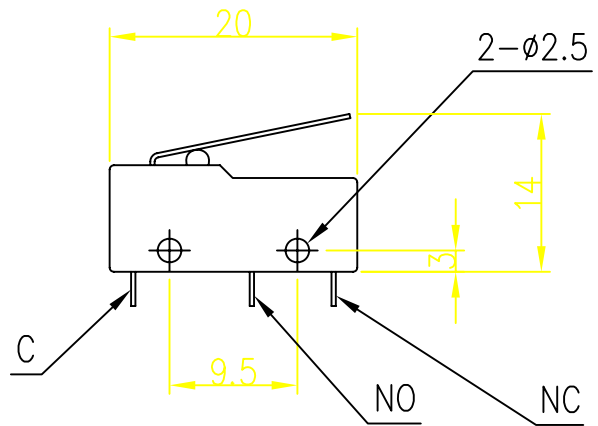
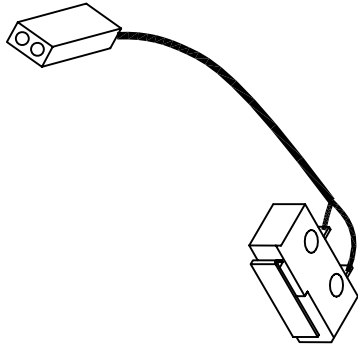
MF Air Cutter



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Cutting Diameter
MF-3	71	20	8	68	40	10	38	8	25	14	2	10	7	33	ø4	M4	1.2
MF-5	73	29	9	69	41	20	44	7	30	22	2	7	7	4	ø4	M4	1.2
MF-10	96	35	10	91	56	20	53	6	40	26	2	8	9	4	ø4	M4	2.5

Micro Switch

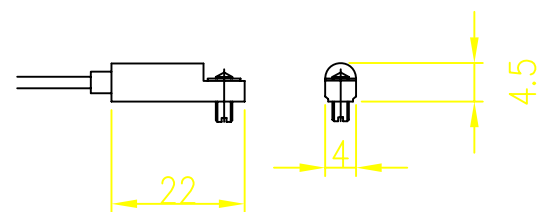
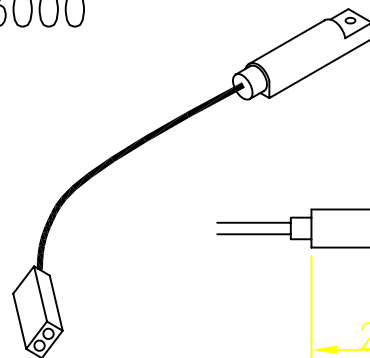
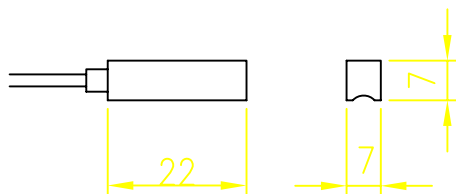
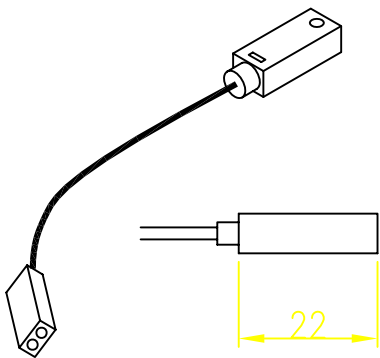
SWI0000SS-5GL

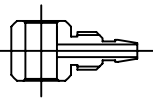
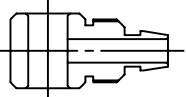
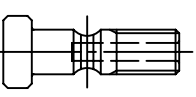
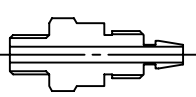
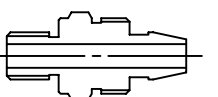
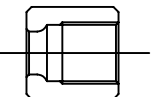
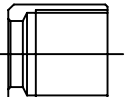
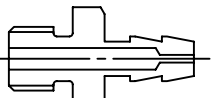
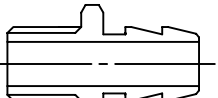
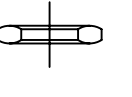


Reed Switch

SEN0CS-3000

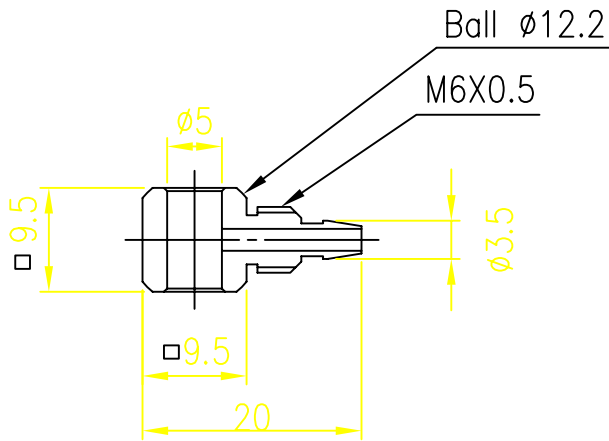
SENZE102A



Type Drawn	Parts No.	Specification	Memo
	Air connector S2D7104C	Pipe $\phi 2.5 \times \phi 4$	S2D7100C-014
	Air connector S104024C	Pipe $\phi 4 \times \phi 6$	S104000A-031
	Air connector Bolt S104027C	M5X0.8	S104000A-034
	Air connector S103014C	Pipe $\phi 2.5 \times \phi 4$	S103000C-027
	Air connector T104103C	Pipe $\phi 4 \times \phi 6$	T104100C-007
	Air connector Nut S103015C	M6X0.5	S103000C-028
	Air connector Nut S104025C	M8X0.5	S104000A-032
	Air connector S105008C	Pipe $\phi 2.5 \times \phi 4$	
	Air connector AC02005C	Pipe $\phi 4 \times \phi 6$	
	Seal S104026C	$\phi 5$	S104200C-014

Air Connector

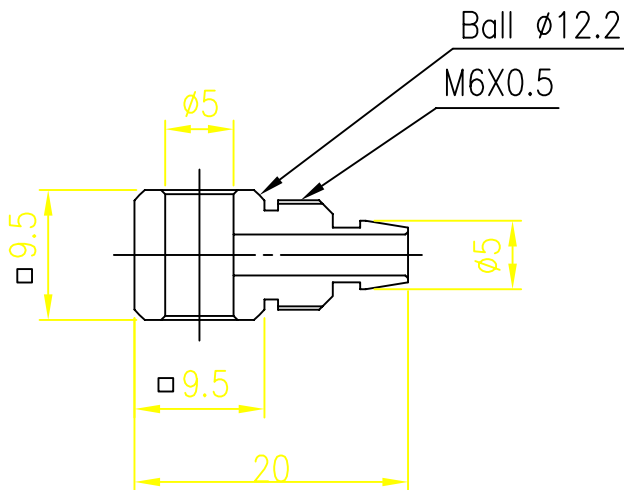
MODEL:S2D7104C



Pipe $\phi 2.5 \times \phi 4$

Air Connector

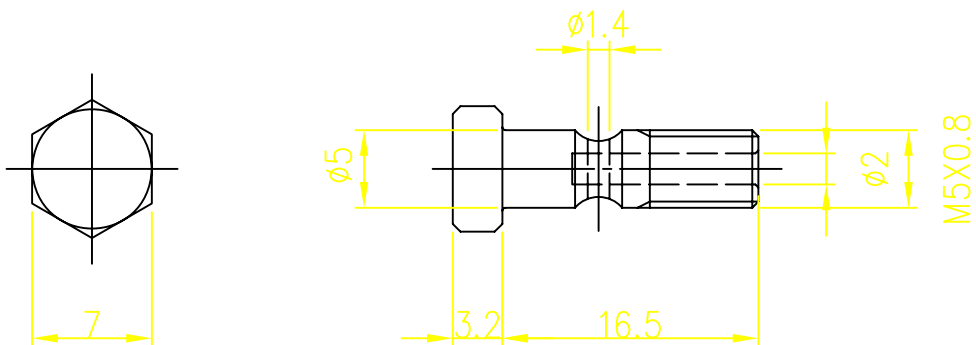
MODEL:S104024C



Pipe $\phi 4 \times \phi 6$

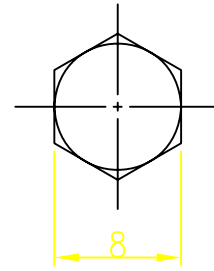
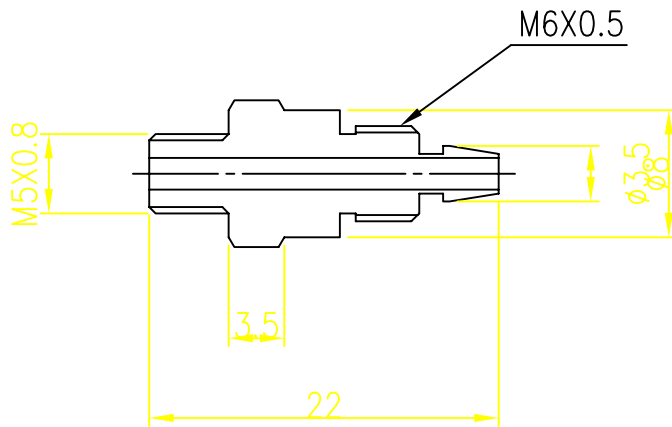
Air Connector Bolt

MODEL:S104027C



Air Connector

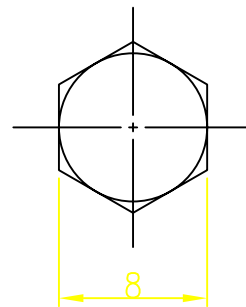
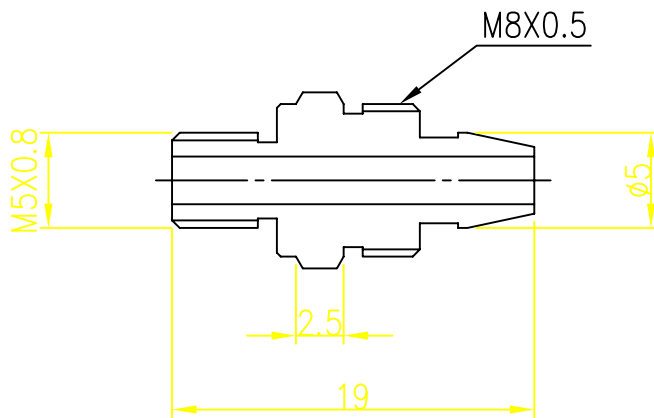
MODEL:S103014C



Pipe
 $\phi 2.5 \times \phi 4$

Air Connector

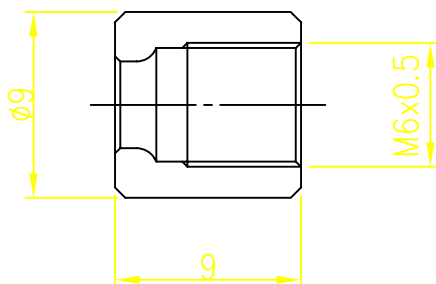
MODEL:T104103C



Pipe
 $\phi 4 \times \phi 6$

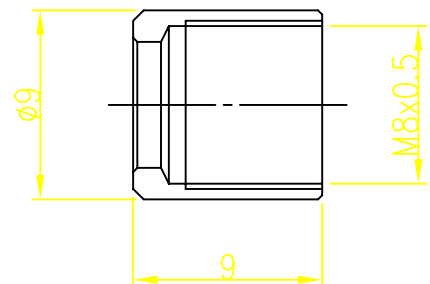
Air Connector Nut

MODEL:S103015C



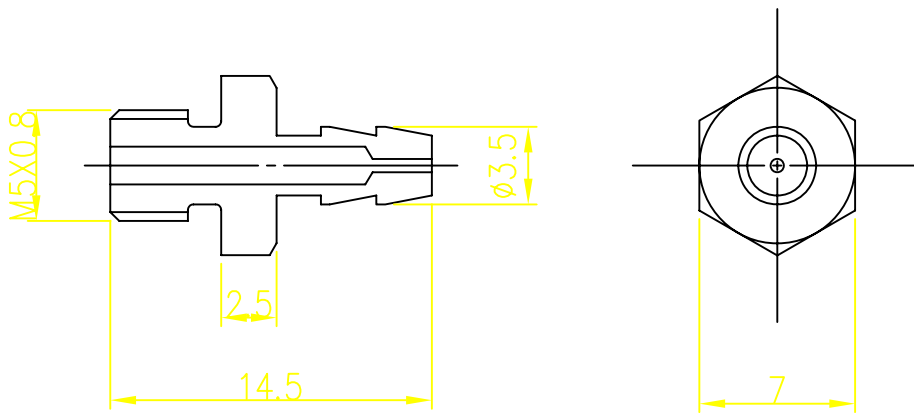
Air Connector Nut

MODEL:S104025C



Air Connector

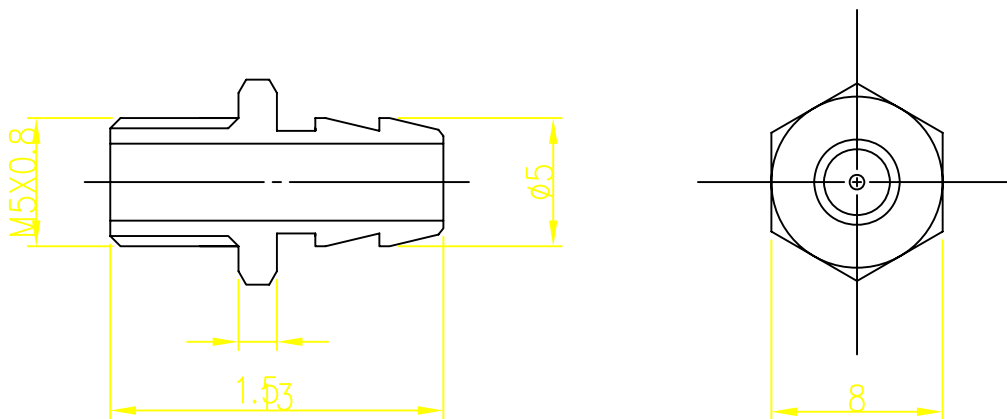
MODEL:S105008C



Pipe
 $\phi 2.5 \times \phi 4$

Air Connector

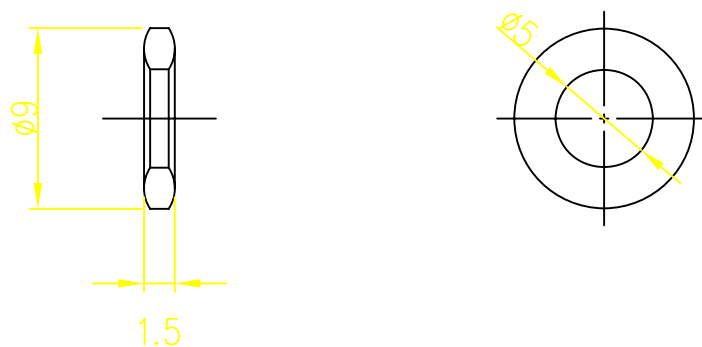
MODEL:AC02005C



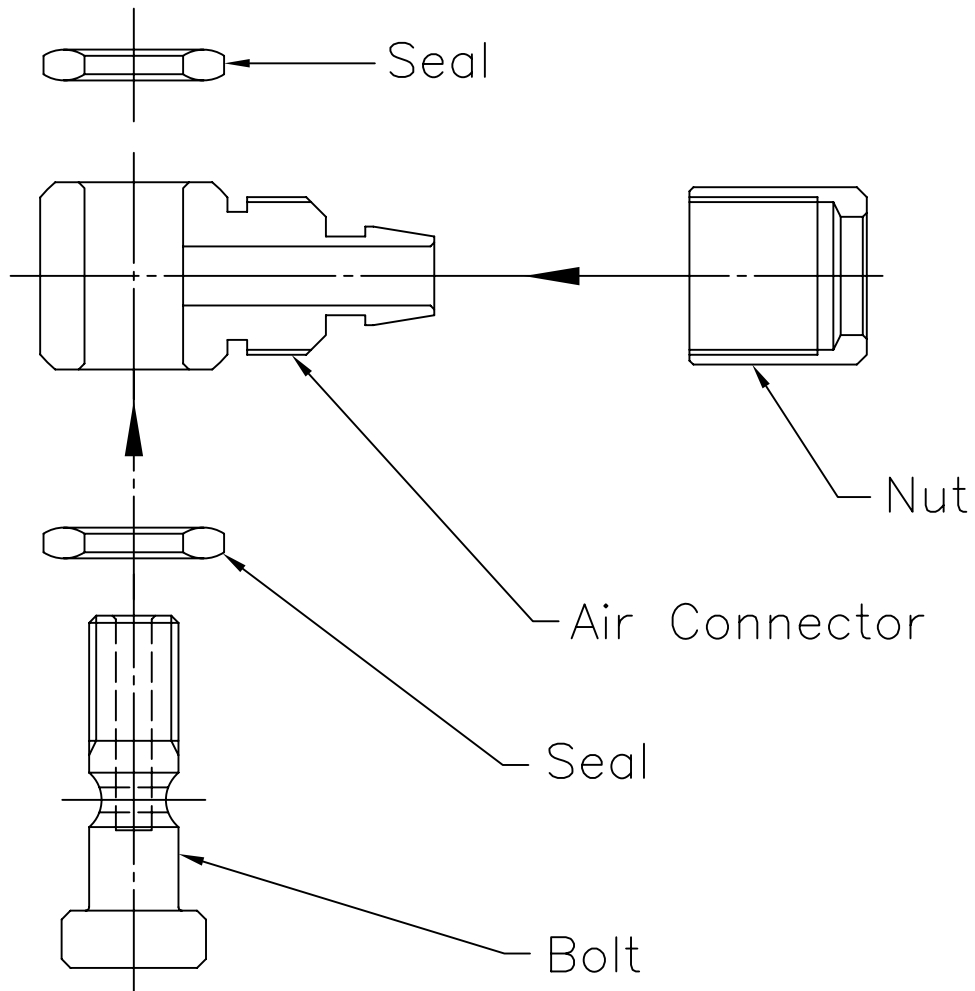
Pipe
 $\phi 4 \times \phi 6$

Seal

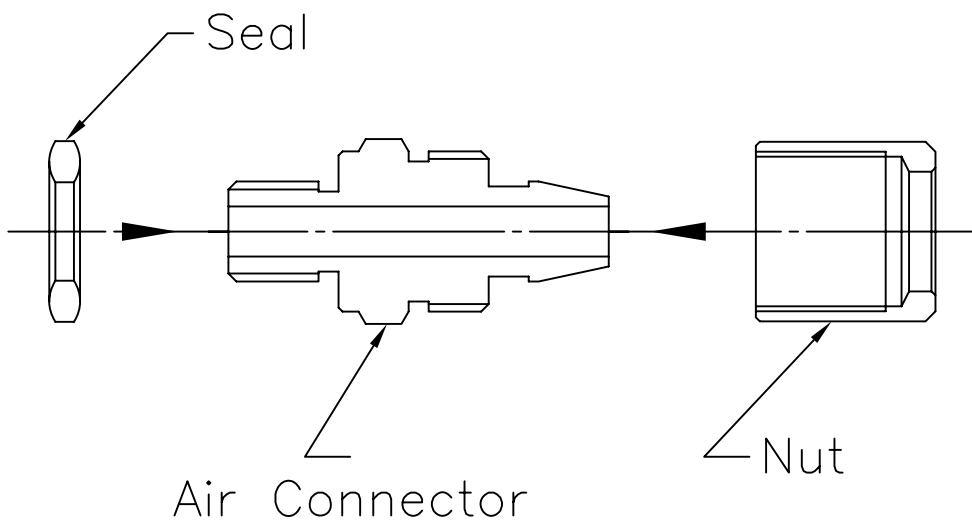
MODEL:S104026C

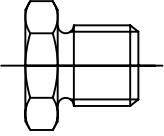



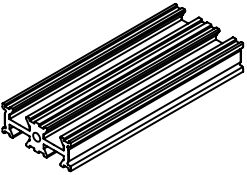


Air Connector Assembly



Air Connector Assembly

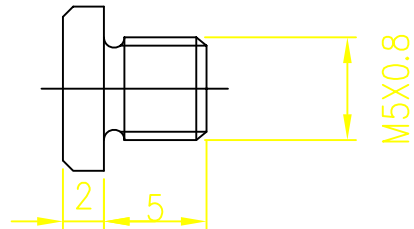
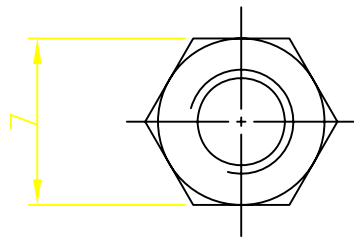


Type Drawn	Parts No.	Specification	Memo
	Plug AC08003C	M5X0.8	
	PU Pipe	ø4 ø6 ø8 ø10 ø12	1 Meter
	Nylon Pipe	ø4 ø6 ø8 ø10 ø12	1 Meter
	Vacuum Pipe 11219	ø6	1 Meter
	Suction Pad Rail AC07002C	Different Length Available	

Plug

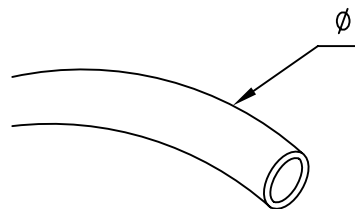
Material: Brass

MODEL:AC08003C



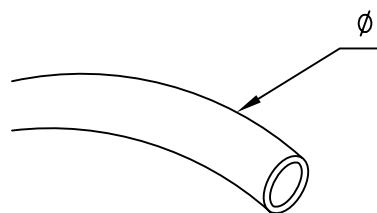
PU Pipe

Spec	Model No.
ø4	AP04PXXXXD25
ø6	AP06PXXXXD40
ø8	AP08PXXXXD50
	AP08PXXXXD60
ø10	AP10PXXXXD65
ø12	AP12PXXXXD80



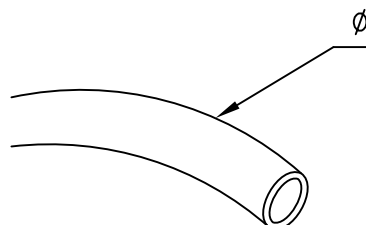
Nylon Pipe

Spec	Model No.
ø4	AP04NXXXXD25
ø6	AP06NXXXXD42
ø8	AP08NXXXXD63
ø10	AP10NXXXXD77
ø12	AP12NXXXXD90



Vacuum Pipe

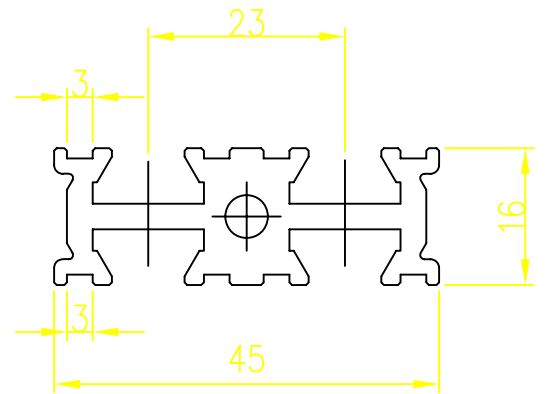
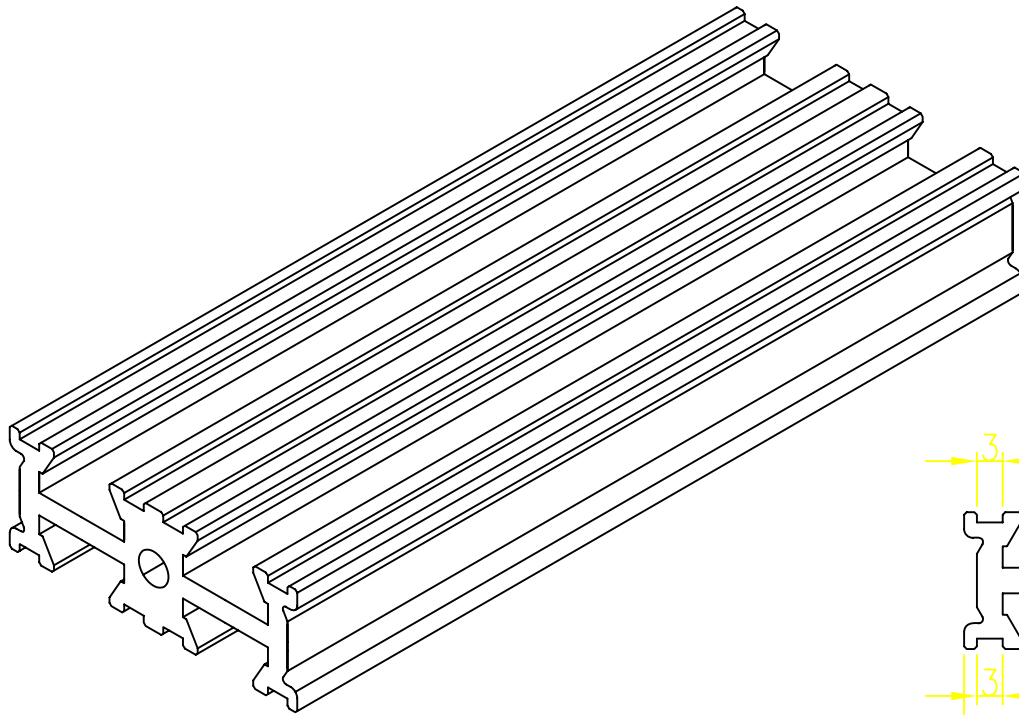
Spec	Model No.
ø6	AP60SXXXXT38



Suction Pad Rail

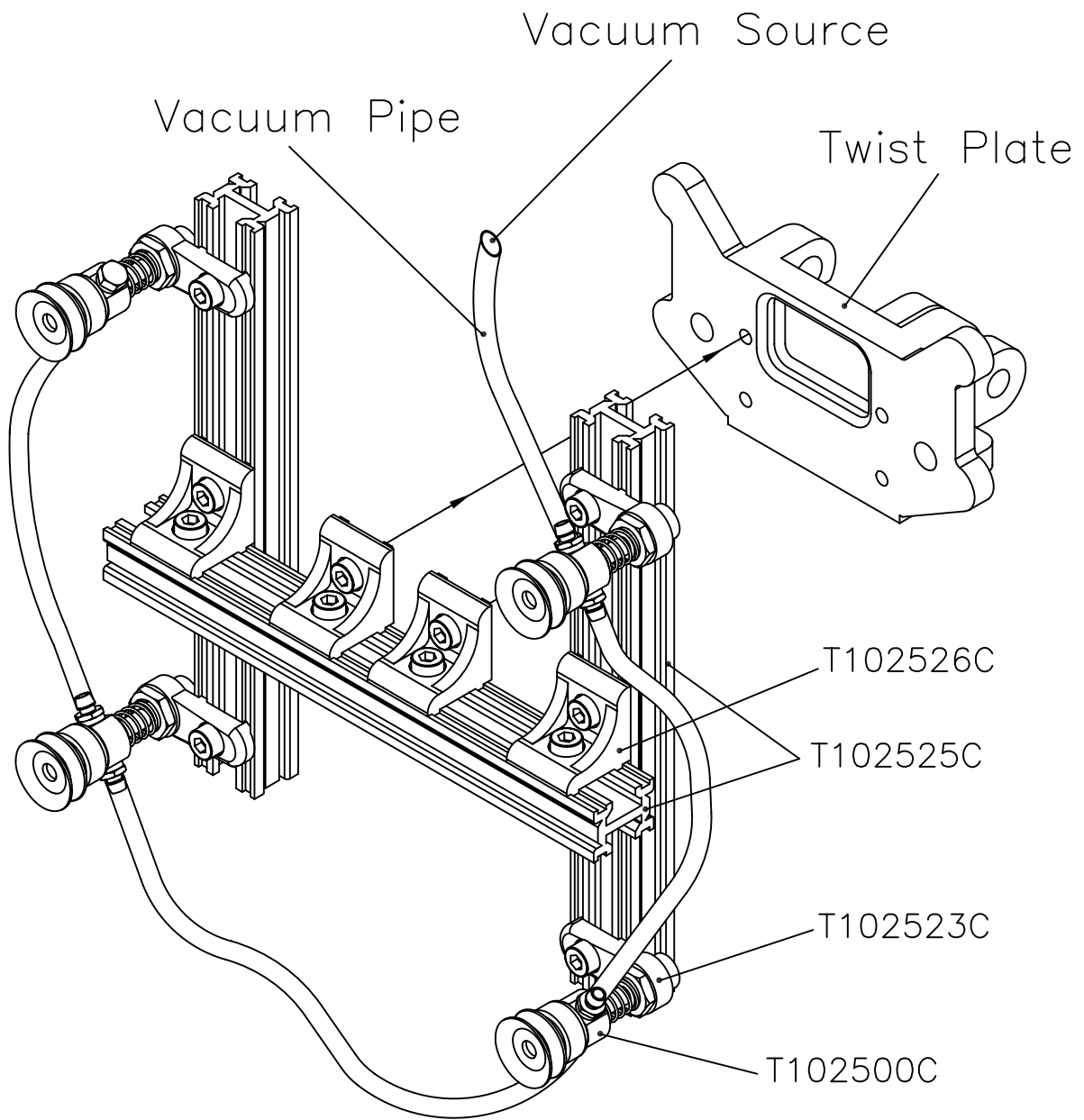
AC07002C

Different Length Available

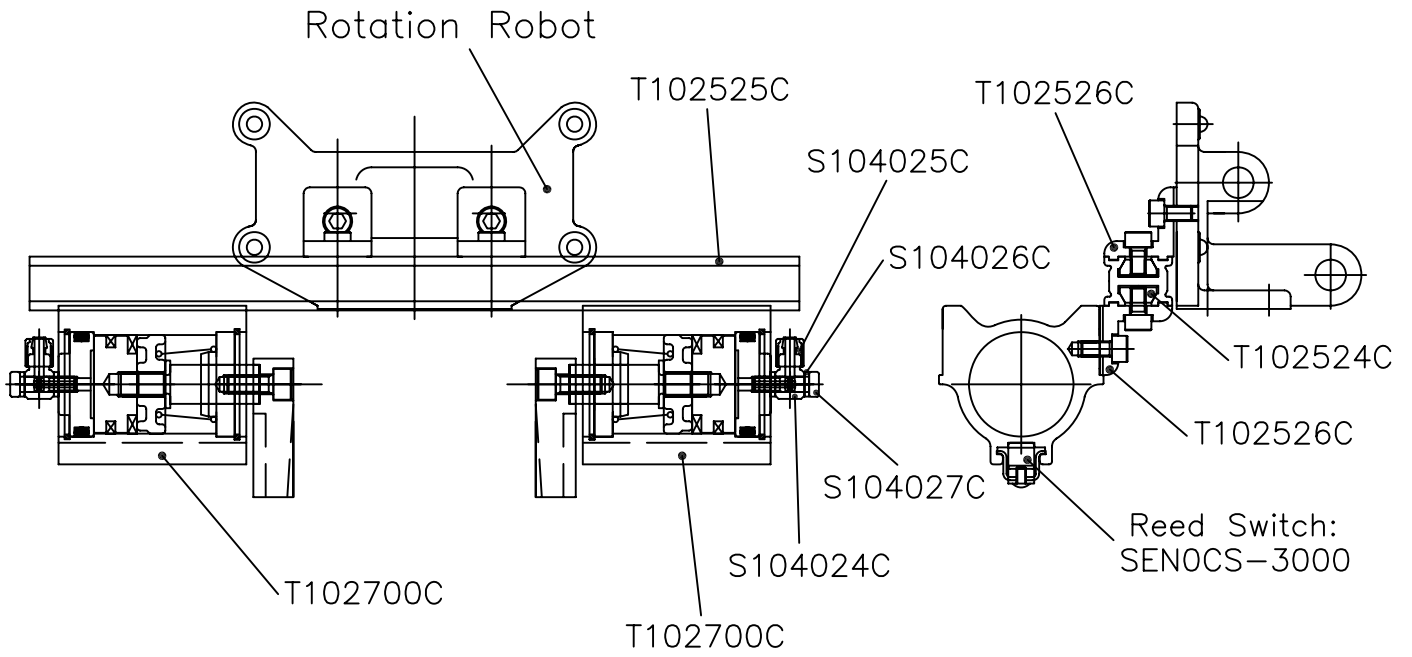


Example 1

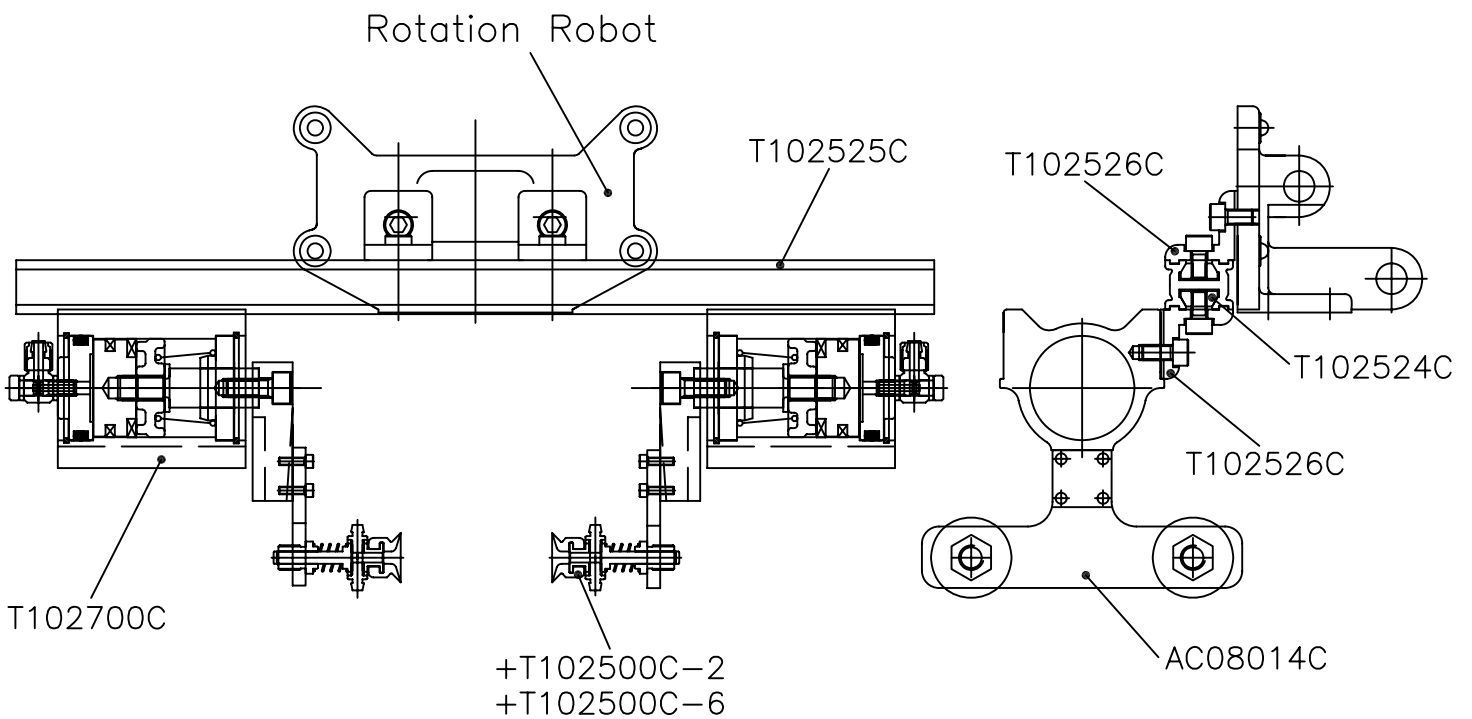
Standard equipment:Suction Pad Assembly



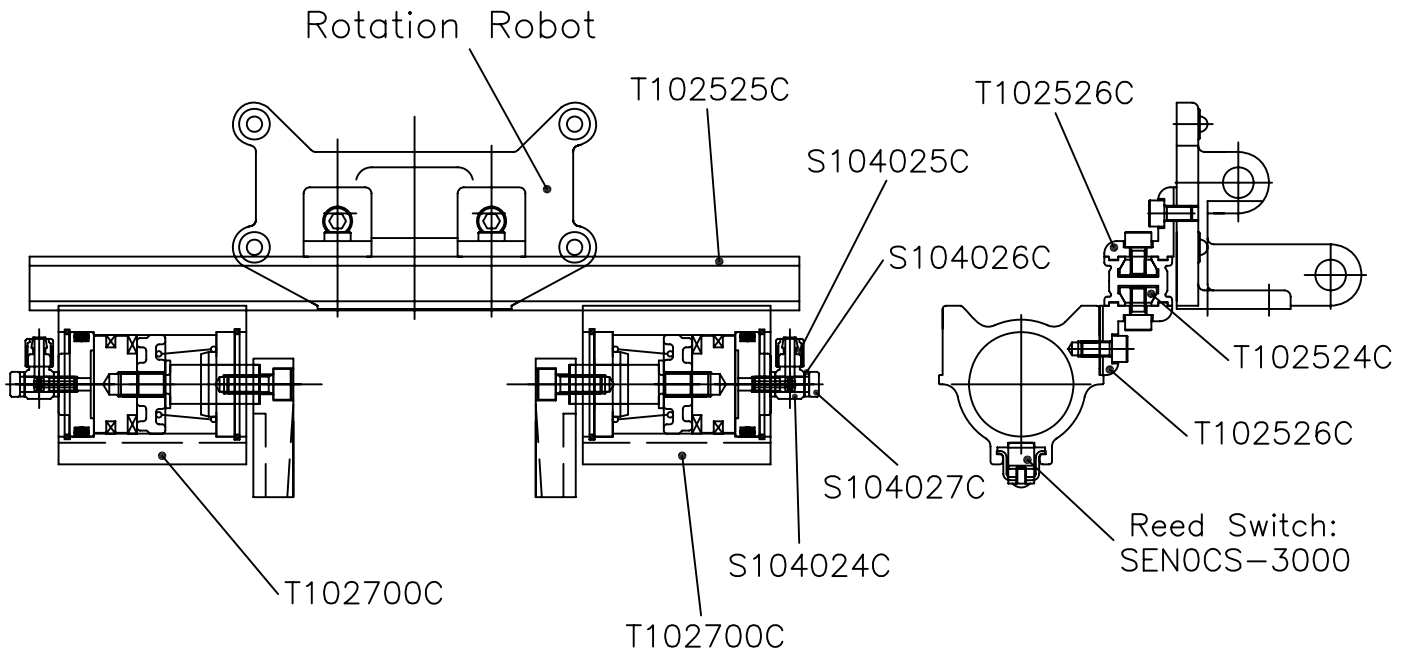
Example 2 Holder Assembly



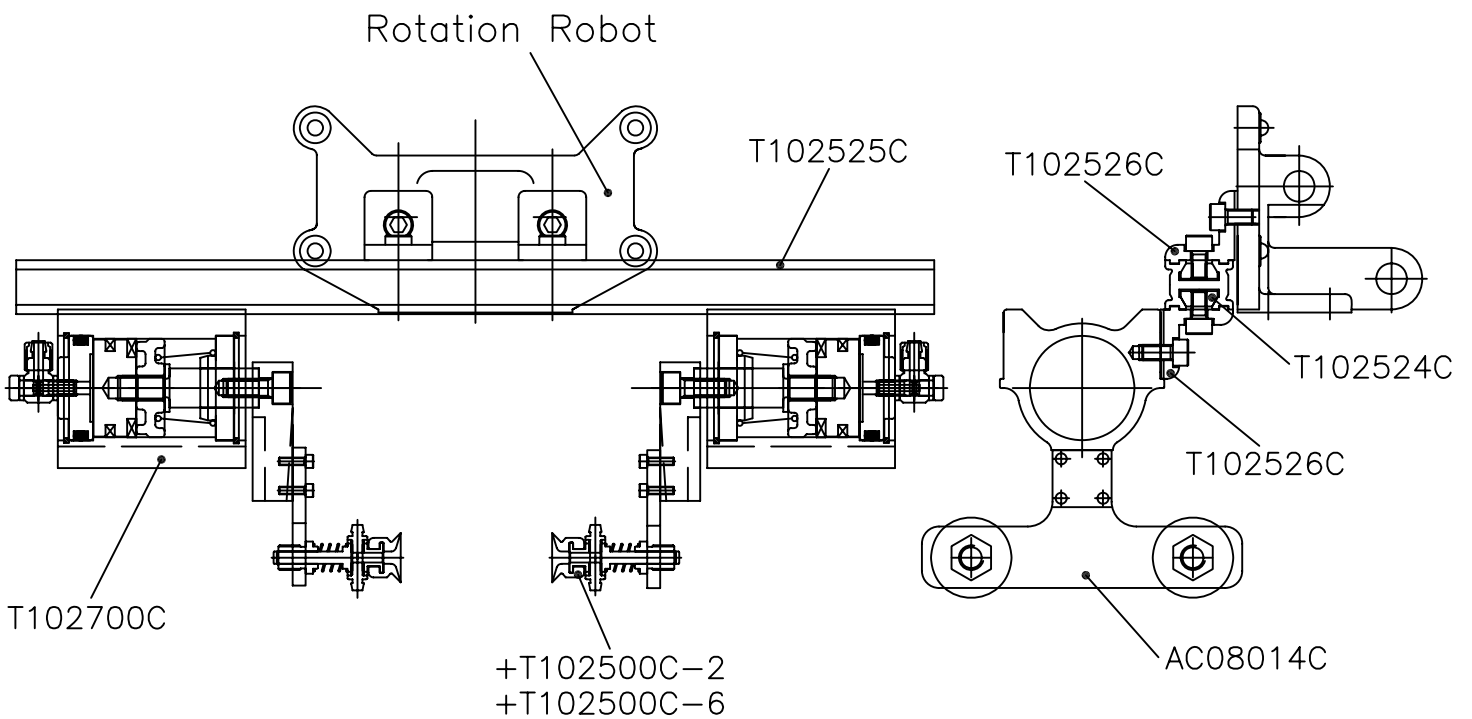
Example 3 Holder And Suction Pad Assembly



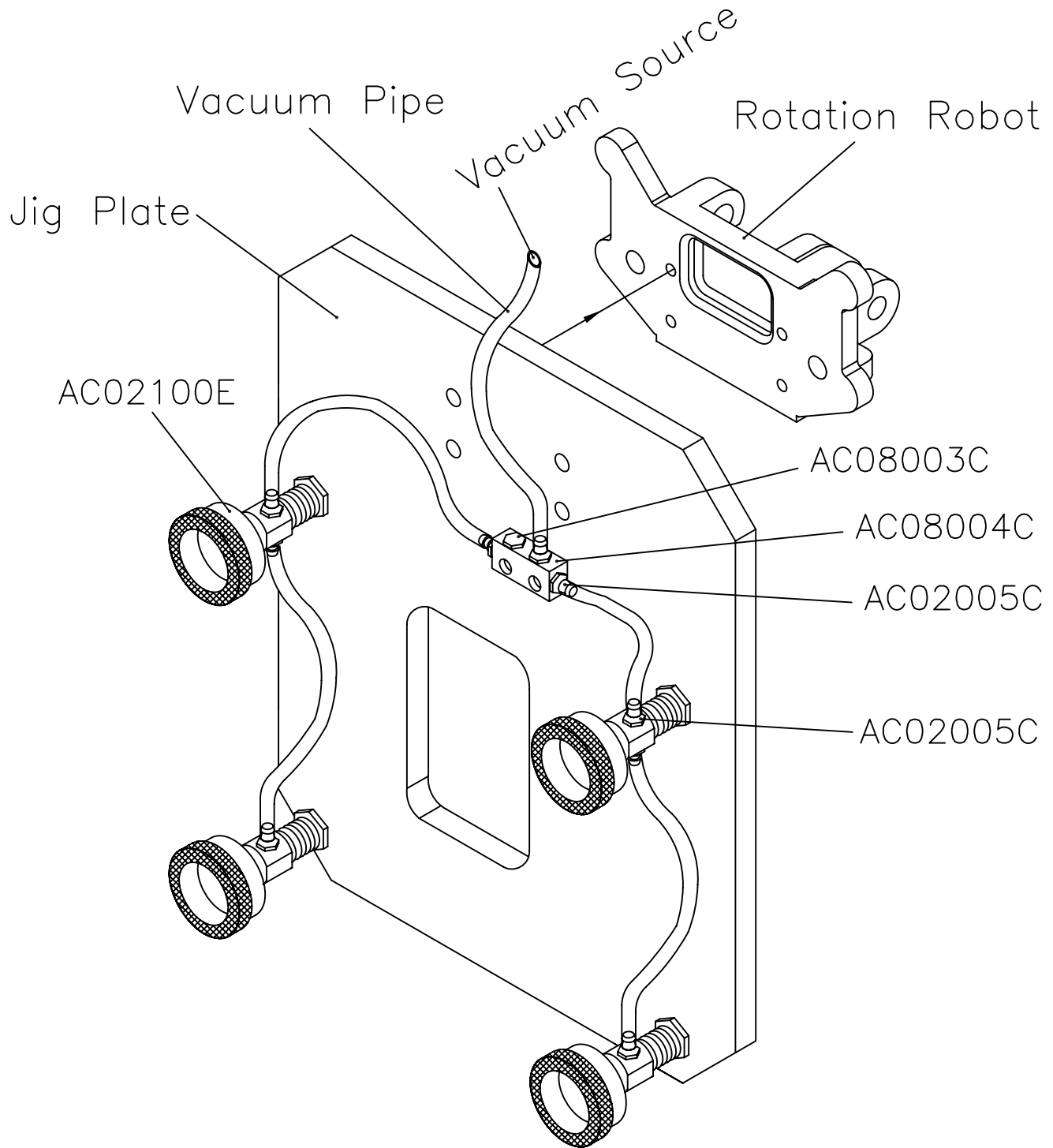
Example 2 Holder Assembly



Example 3 Holder And Suction Pad Assembly



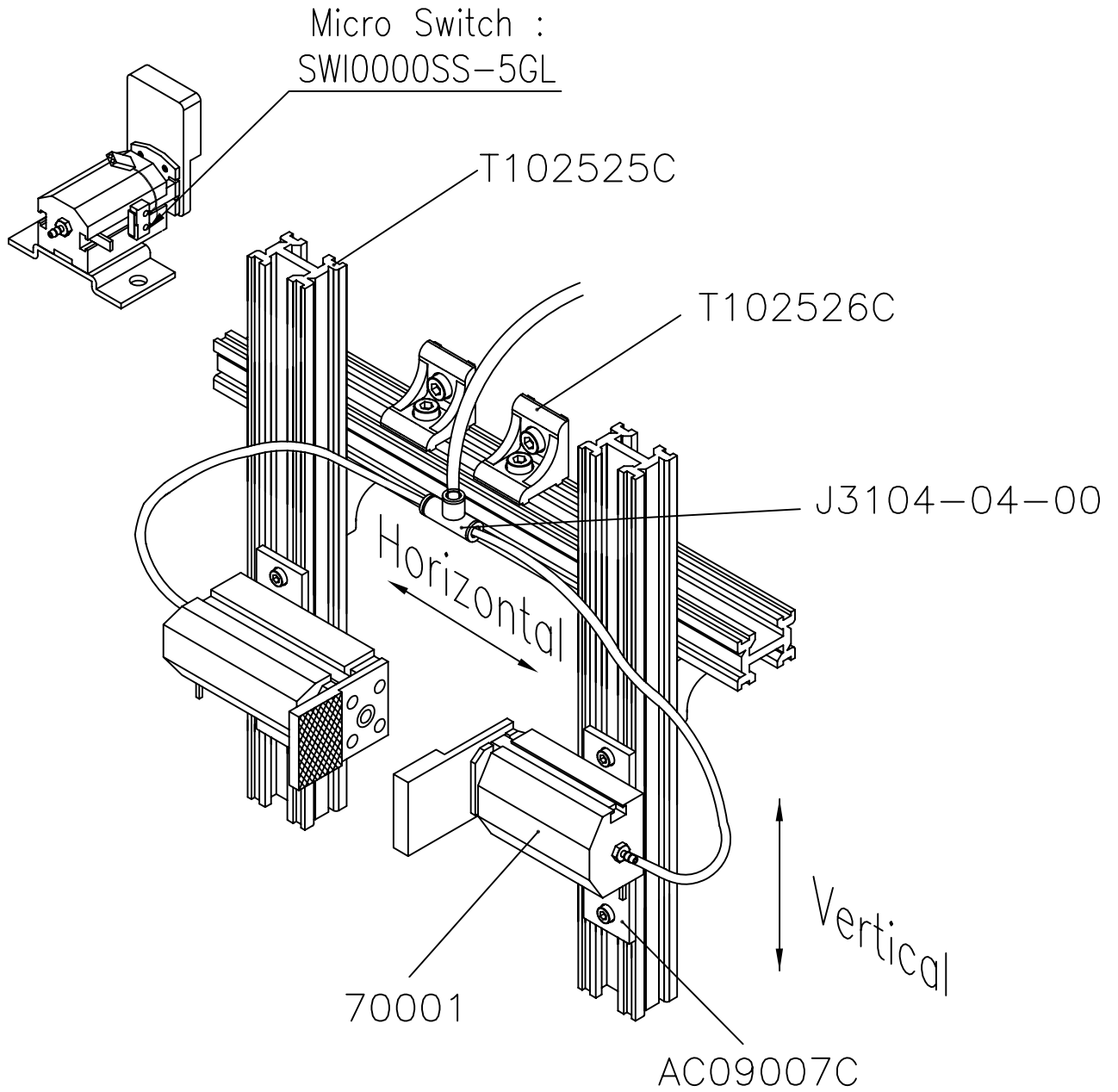
Example 4
Sponge Pad Assembly
use in uneven Surface



Example 5

Holder Assembly

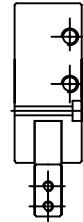
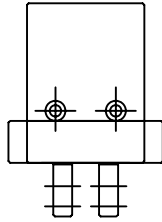
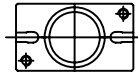
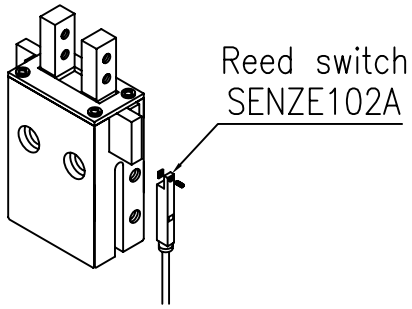
With micro switch for easy adjustment, verification and positioning.



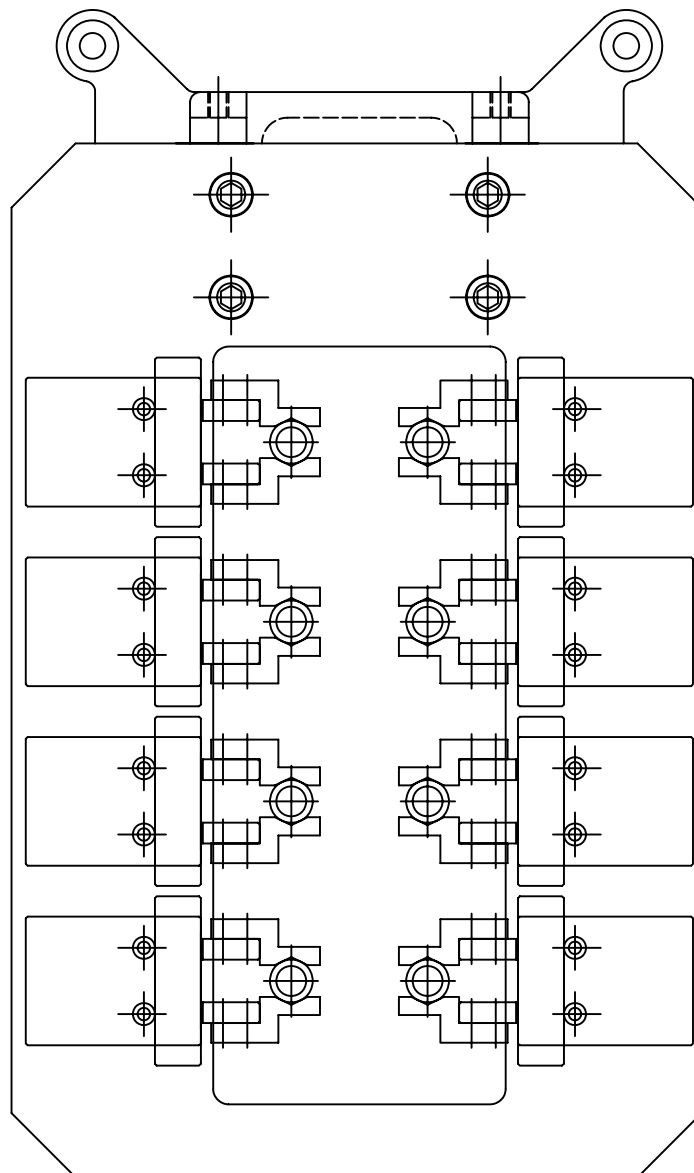
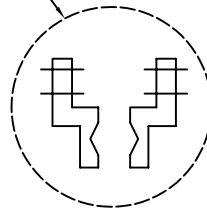
Example 6

Parallel Air Holder Assembly

With reed switch for easy adjustment, verification and positioning.



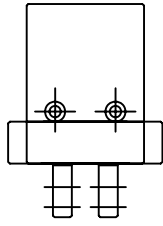
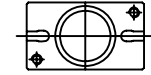
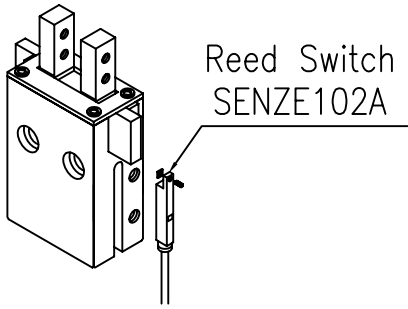
According the parts shape,
make your own holder.



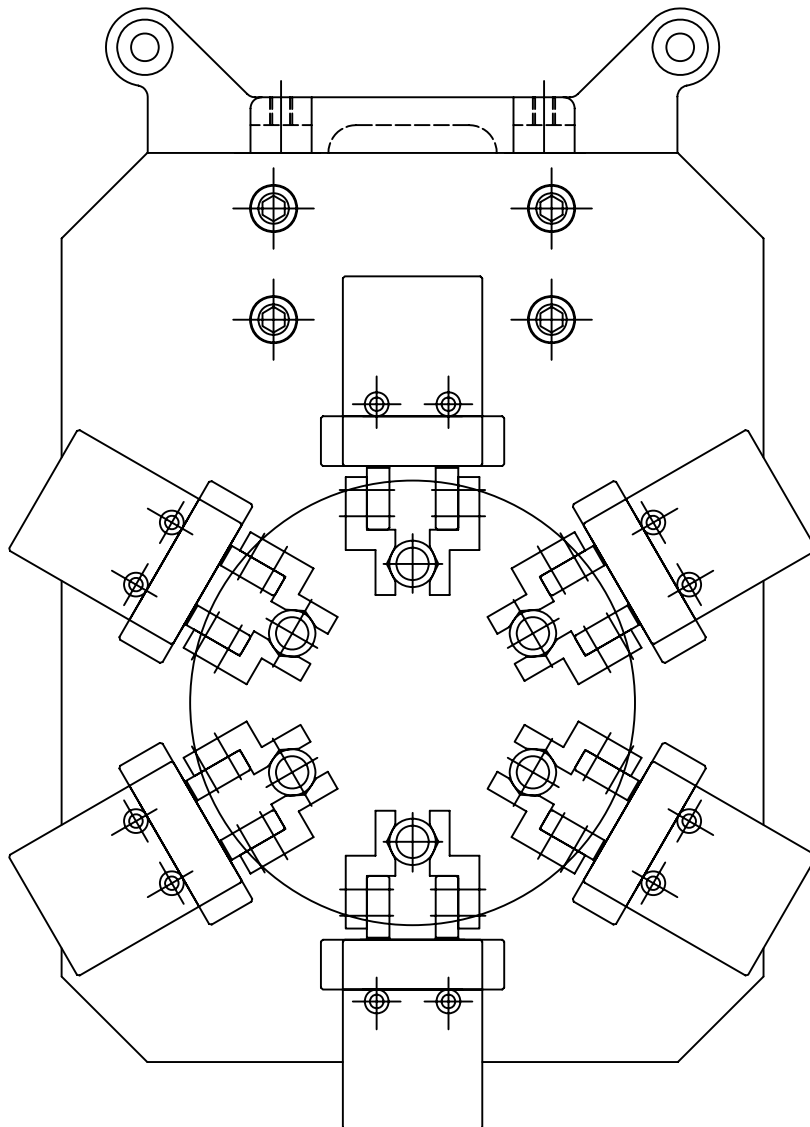
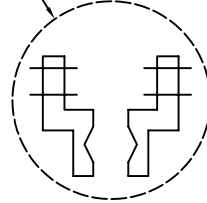
Example 7

Parallel Air Holder Assembly

With reed switch for easy adjustment, verification and positioning.

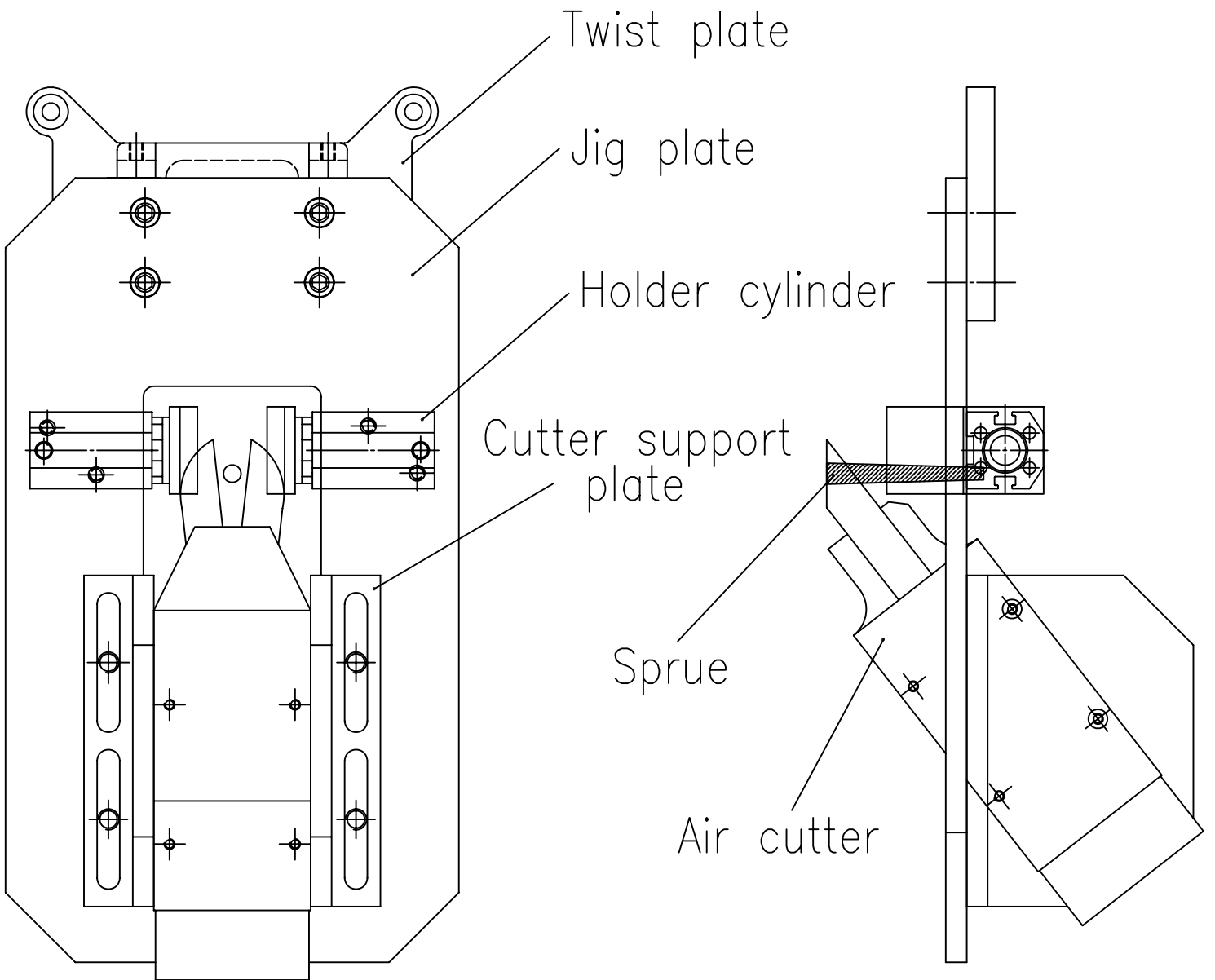
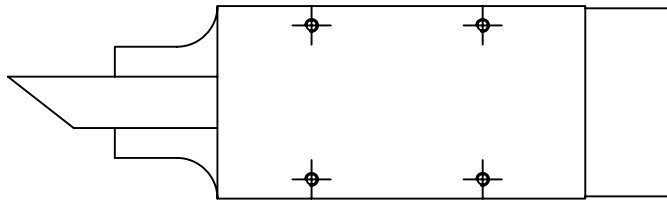
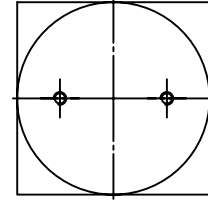
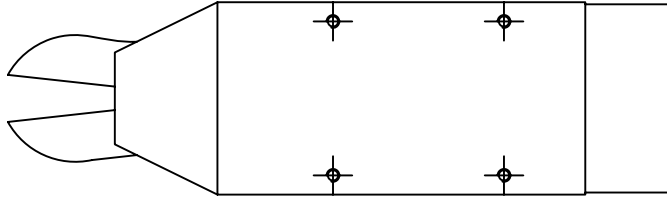


According the parts shape,
make your own holder.

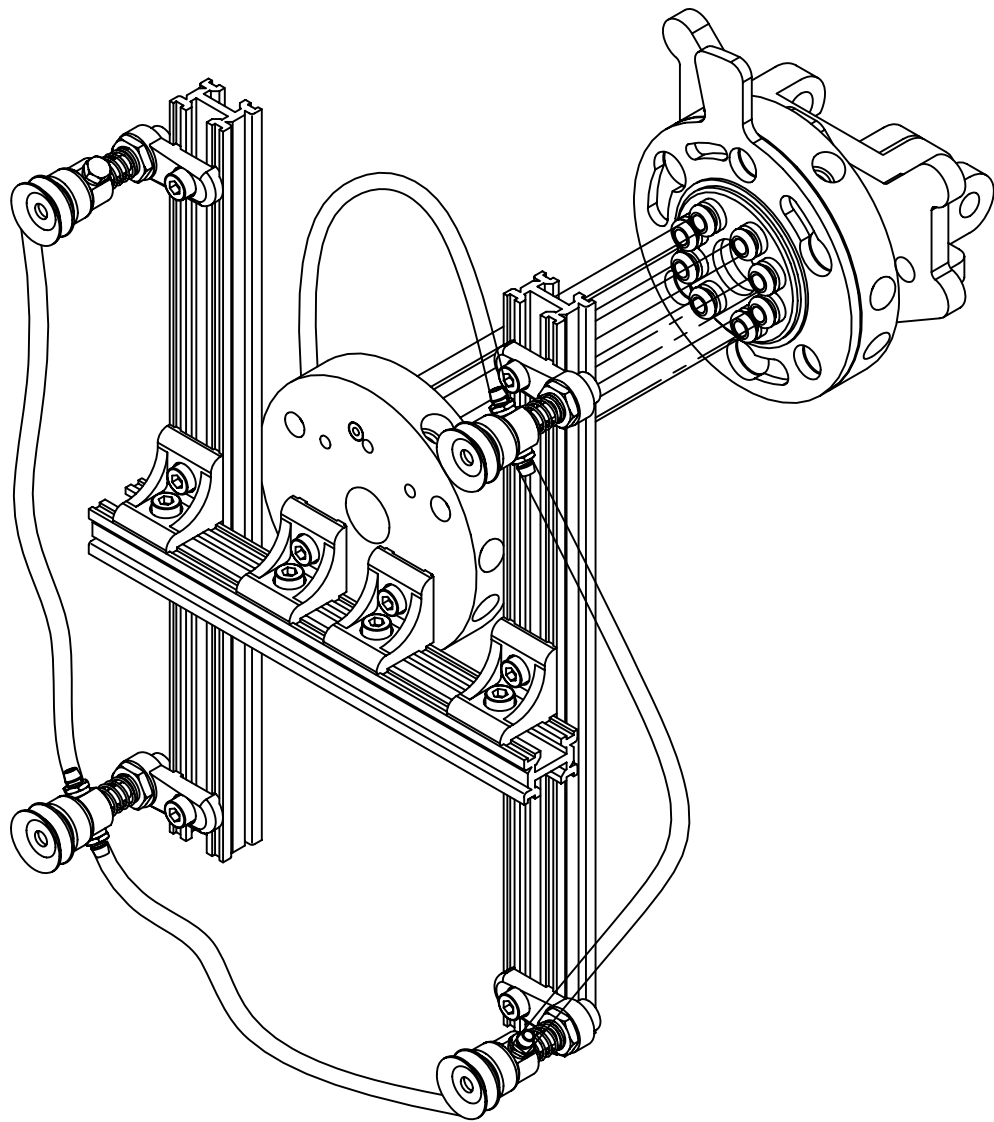


Example 8

MS Type Air Cutter Assembly



QR— Quick Release Grip System for all robot applications



Application—Fits all robots in the market.

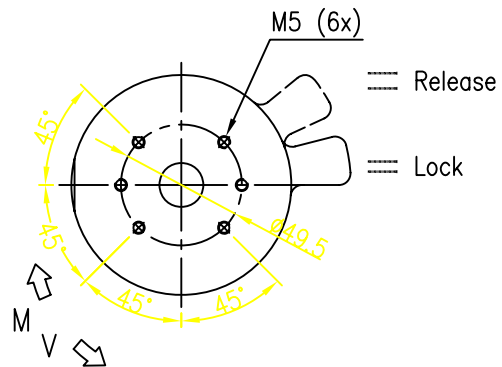
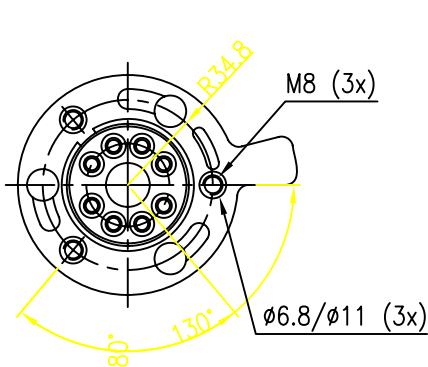
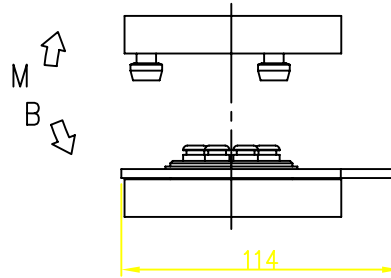
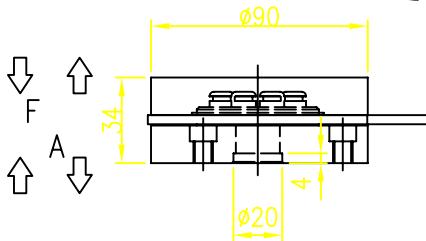
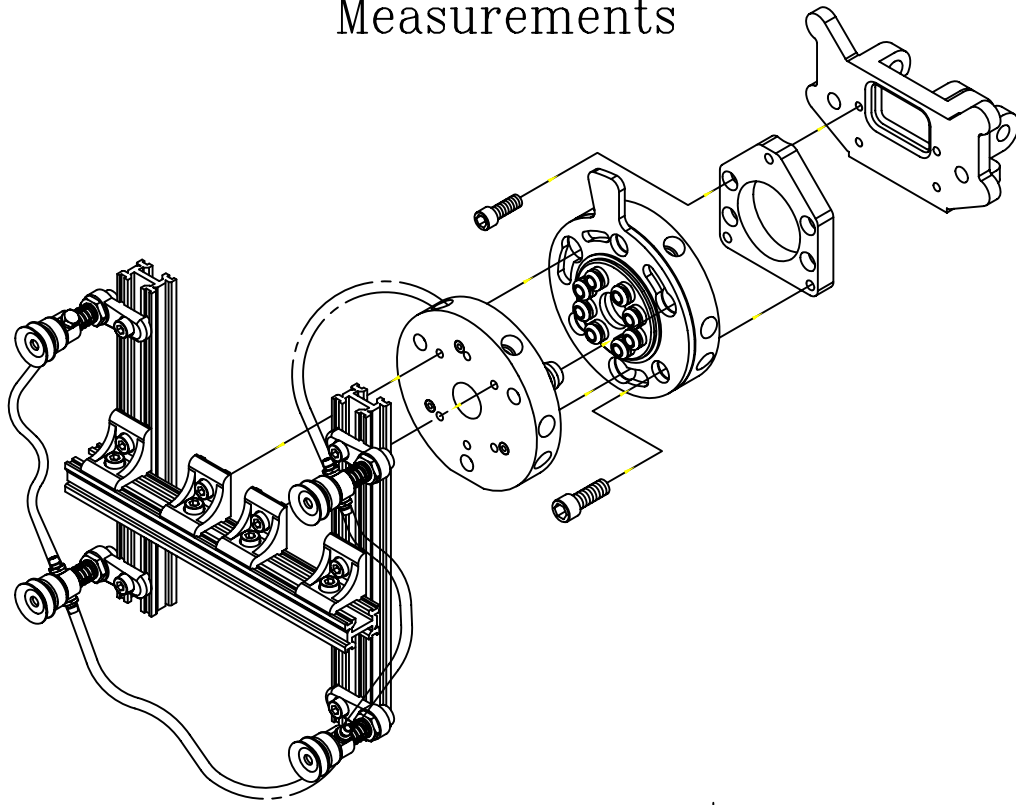
Simple—Just a single manipulation to change the gripper.

Safe—Secures the gripper is always correctly connected.

Efficient—Reduces the grip setting time radically.

Fast—Low weight enables faster robot movements.

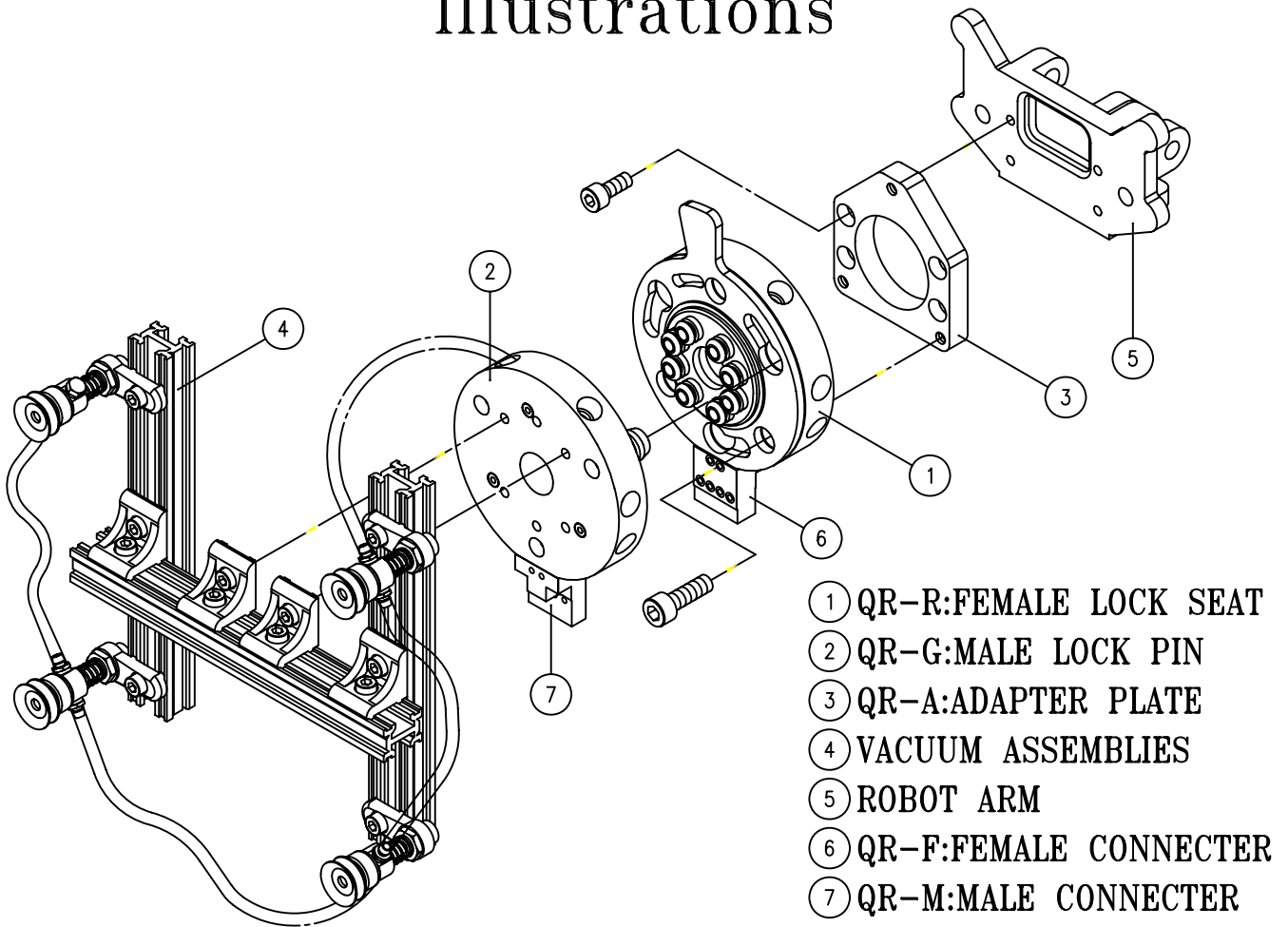
Measurements



Technical Specification

Pulling Torque (Max.)	300 N
Withstand Torque (Max.)	80 Nm
Withstand Movement (Mb / Max.)	30 Nm
Repeatability	± 0.1 mm
Air Connections	6x $\phi 6$ mm+2x $\phi 4$ mm
Operating Air Pressure	6 bar (compressed air)
Operating Air Vacuum	-760 Torr
Weight :	
Robot Part : QR-R	352 g
Gripper Part : QR-G	233 g

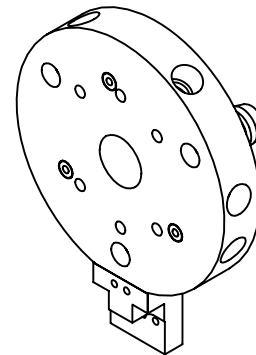
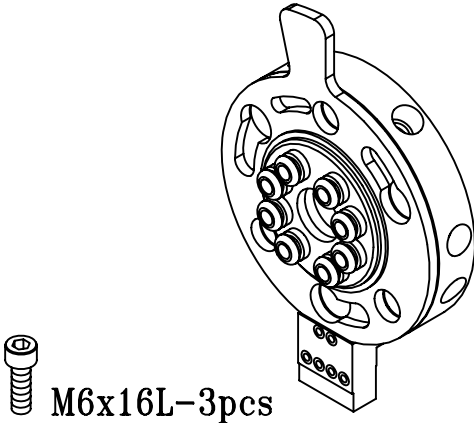
Illustrations



Quick Release Grip System and Gripper Assemblies

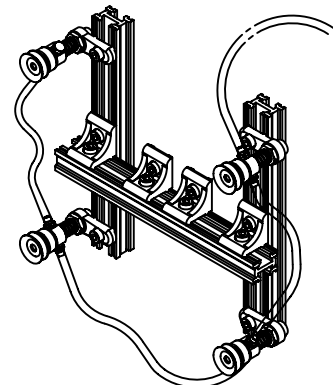
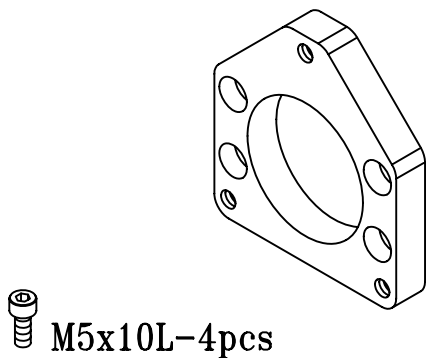
① Part No.:QR-R + QR-F

② Part No.:QR-G + QR-M

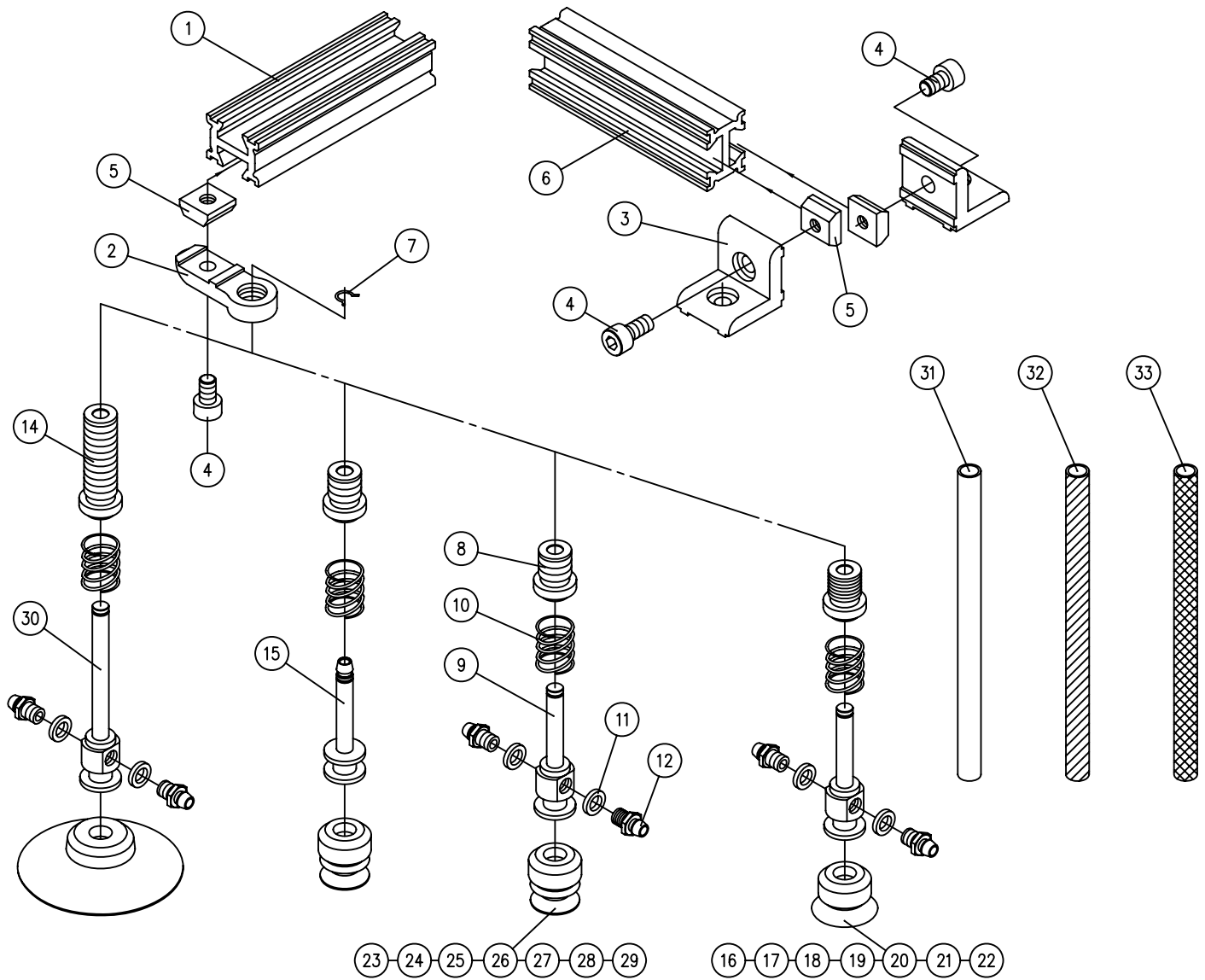


③ Part No.:QR-A

④ Vacuum Assemblies



IV. Gripper Assemblies (Exploded Drawings)



Circle No.	Parts No.	Circle No.	Parts No.	Description
1	T102500C-001	Suction Cups (Flat)		
2	T102500C-002	16	T102507C	∅10
3	T102500C-003	17	T102506C	∅15
4	T102500C-004	18	T102505C	∅20
5	T102500C-005	19	T102504C	∅25
6	T102500C-006	20	T102503C	∅30
7	T102500C-007	21	T102502C	∅40
8	T102500C-008	22	T102501C	∅50
9	T102500C-009	Suction Cups (Curve)		
10	T102500C-010	23	T102514C	∅5
11	T102500C-011	24	T102513C	∅10
12	T102500C-012	25	T102512C	∅15
14	T102500C-014	26	T102511C	∅20
15	T102500C-015	27	T102510C	∅25
30	T102500C-030	28	T102509C	∅30
		29	T102508C	∅40
31	T102500C-031 (Silicon soft air tube , Diameter : Internal-3mm , External-6mm)			
32	T102500C-032 (PU air tube , Diameter : Internal-2.5mm , External-4mm)			
33	T102500C-033 (PU air tube , Diameter : Internal-4mm , External-6mm)			