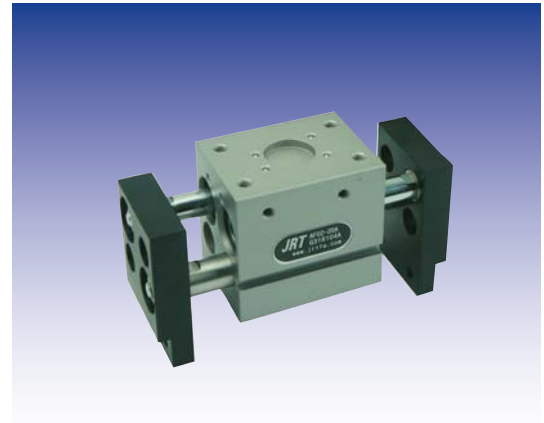


Gripper

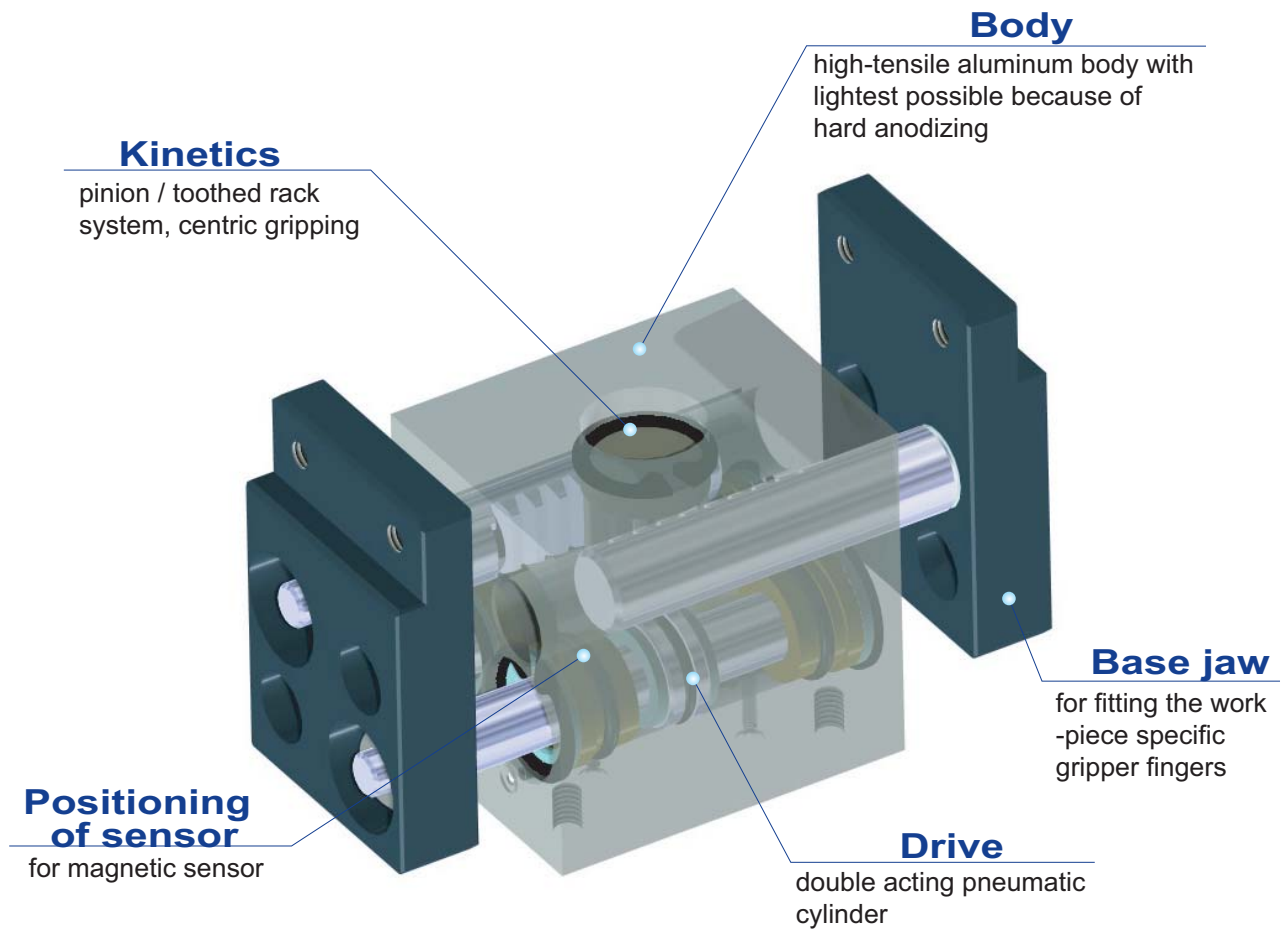
AF02-16,20,30,40,63

Character

- Rack & pinion type
- High gripping forces by the structure of synchronized dual piston
- Magnetic sensor is available for open-close sensing

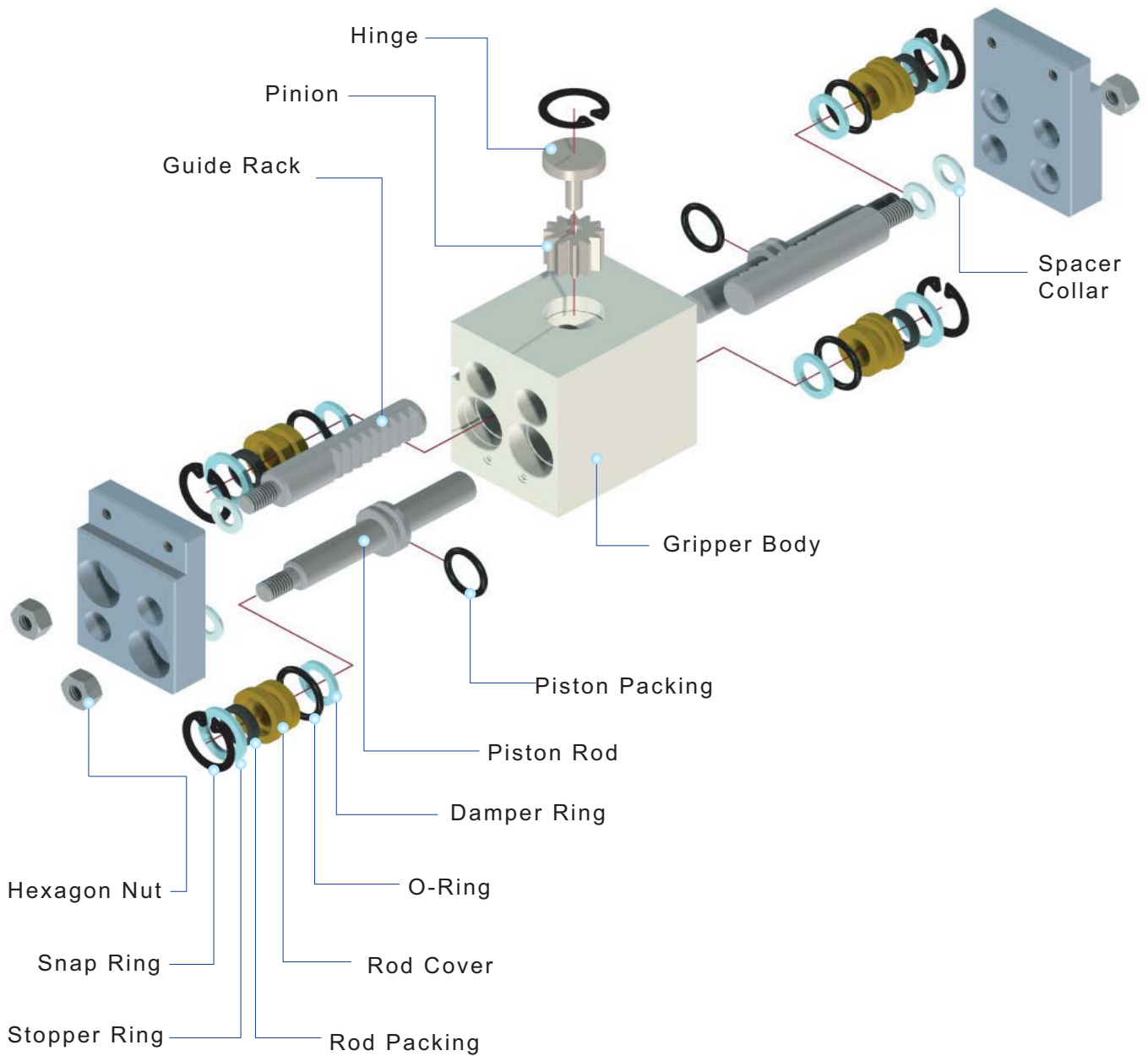


Rack & pinion type



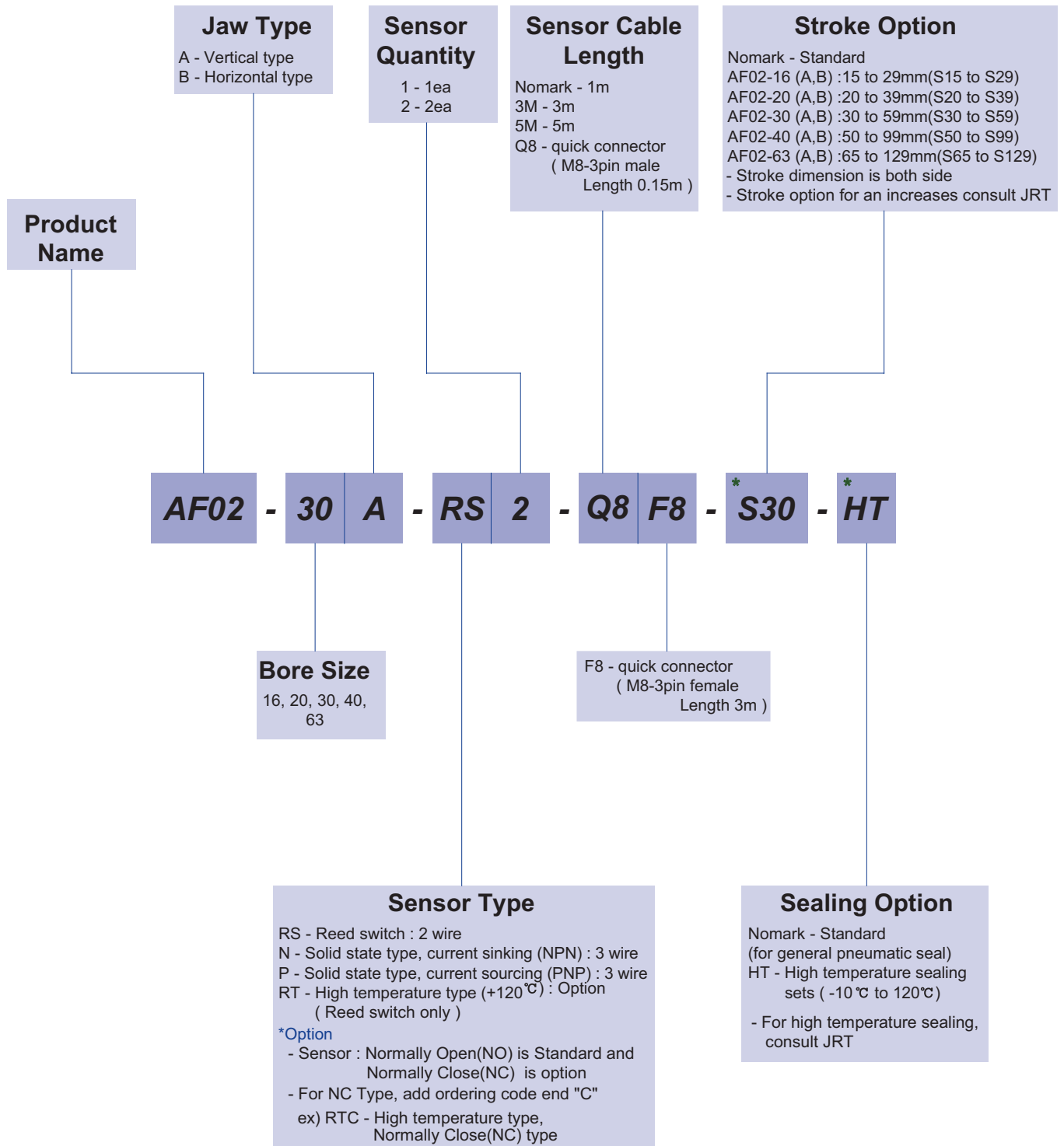
AF02

Exploded view



AF02

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF02

Specification

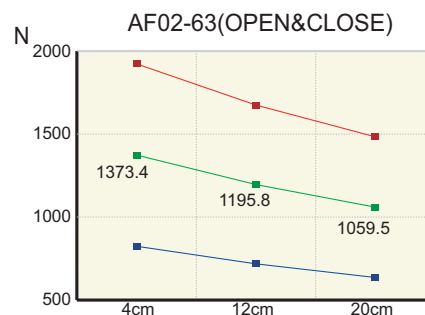
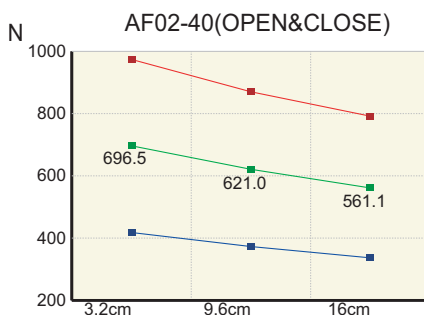
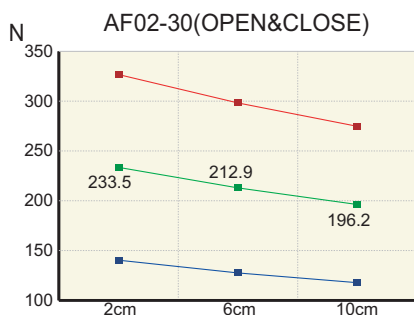
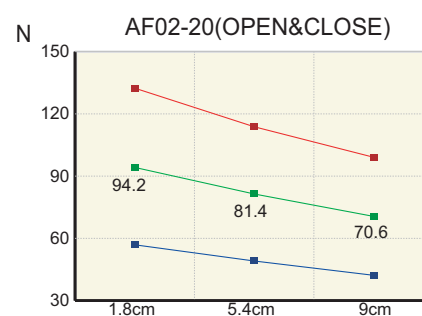
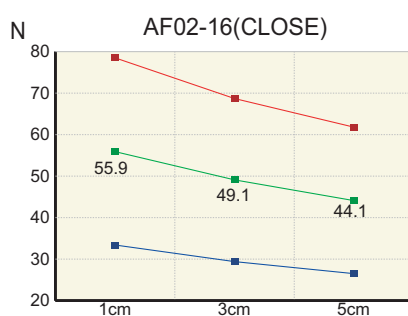
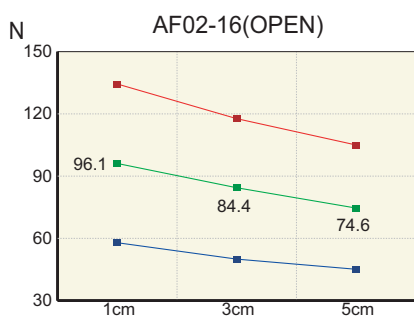
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF02-16	AF02-20	AF02-30	AF02-40	AF02-63	Unit
Stroke	30	40	60	100	130	mm
Weight	0.55	1.05	2.88	6.2	18.2	kg
Max. length of attach	50	90	100	160	200	mm
Fitting size	M5	M5	M5	PF(G) 1/8	PF(G) 1/4	
Gripping force:Open	20.6P/(1+0.0075L)	20.6P/	49.05P/	148.13P/	296.26P/	N
Gripping force:Close	12.07P/(1+0.0075L)	(1+0.005L)	(1+0.0025L)	(1+0.002L)	(1+0.002L)	
Air consumption per cycle	9.7	11.0	60.7	188.5	626.7	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.03 / 0.03	0.09 / 0.09	0.31 / 0.31	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	40	40	30	30	20	
Operating pressure	3~7					bar
Ambient temperature	-5 to 60					°C
Lubrication	Needless					

* After 100 consecutive strokes to end positions

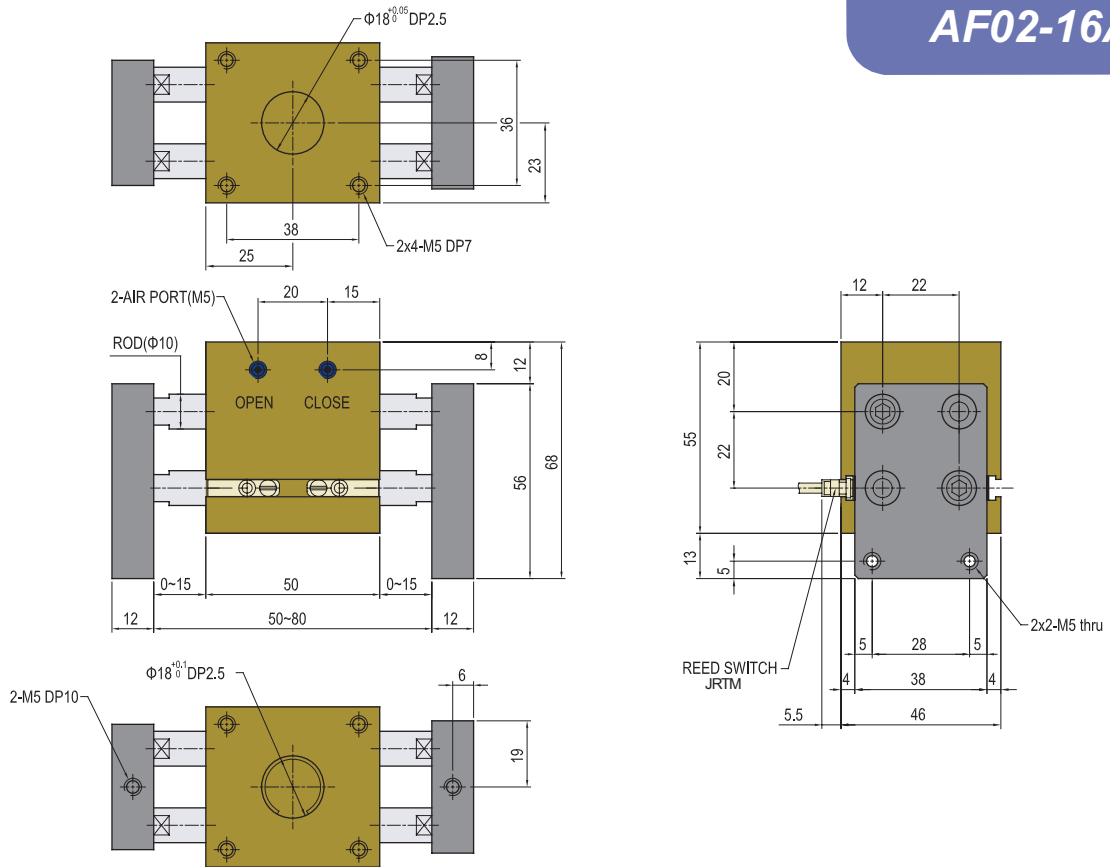
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

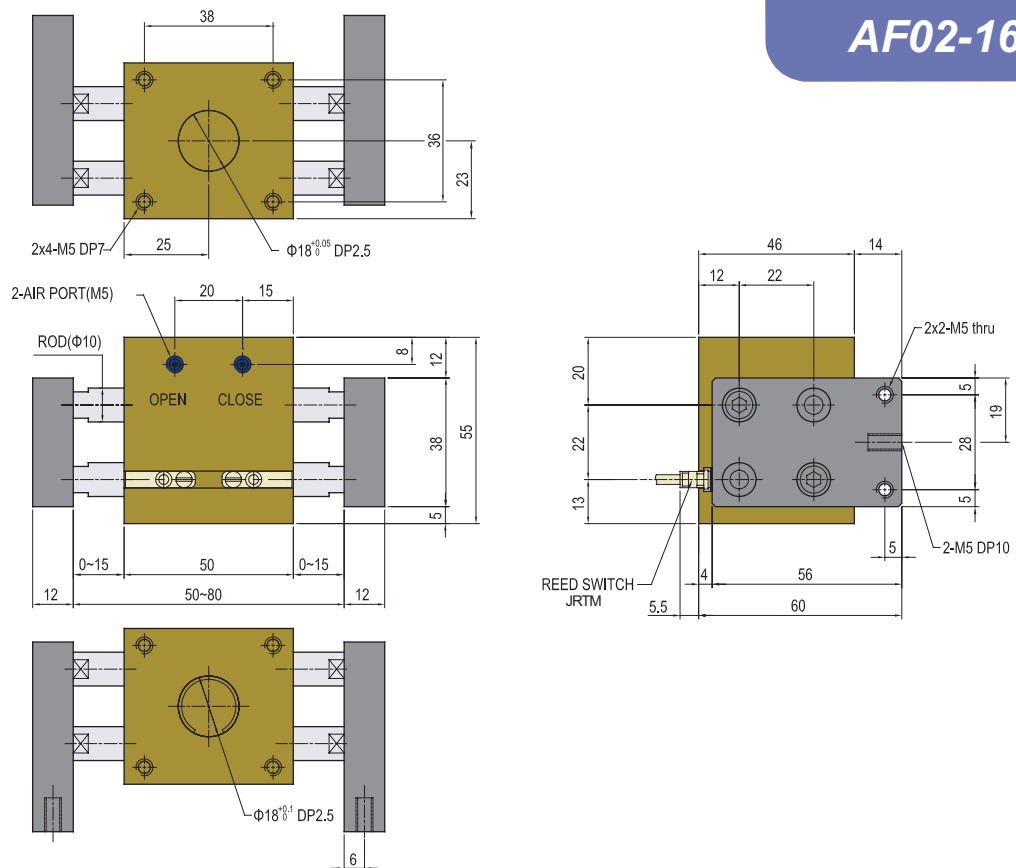


AF02

AF02-16A

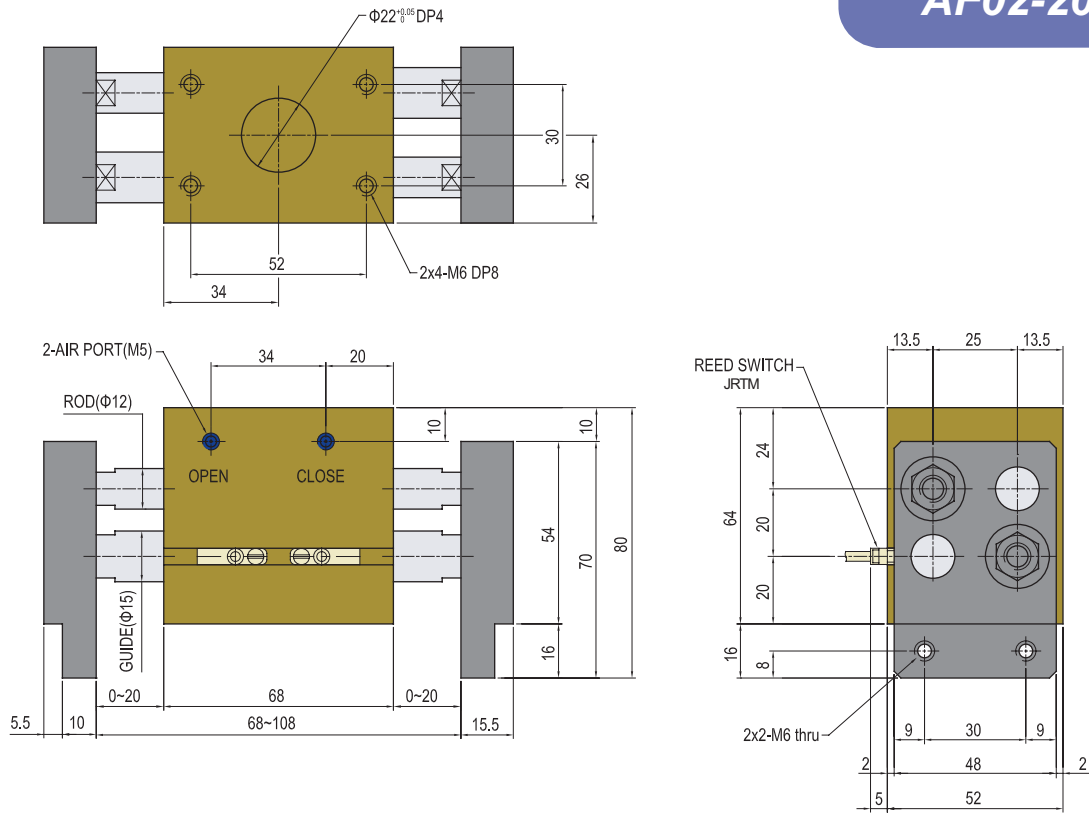


AF02-16B

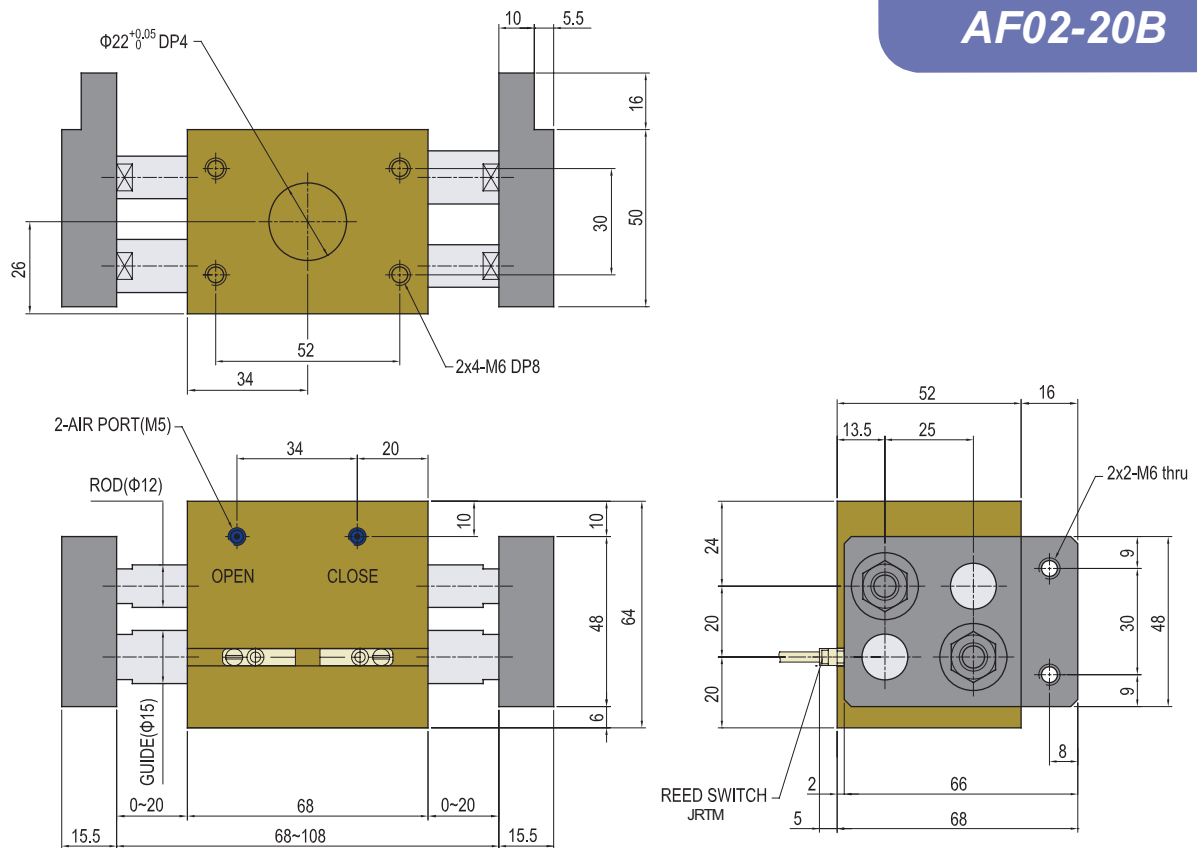


AF02

AF02-20A

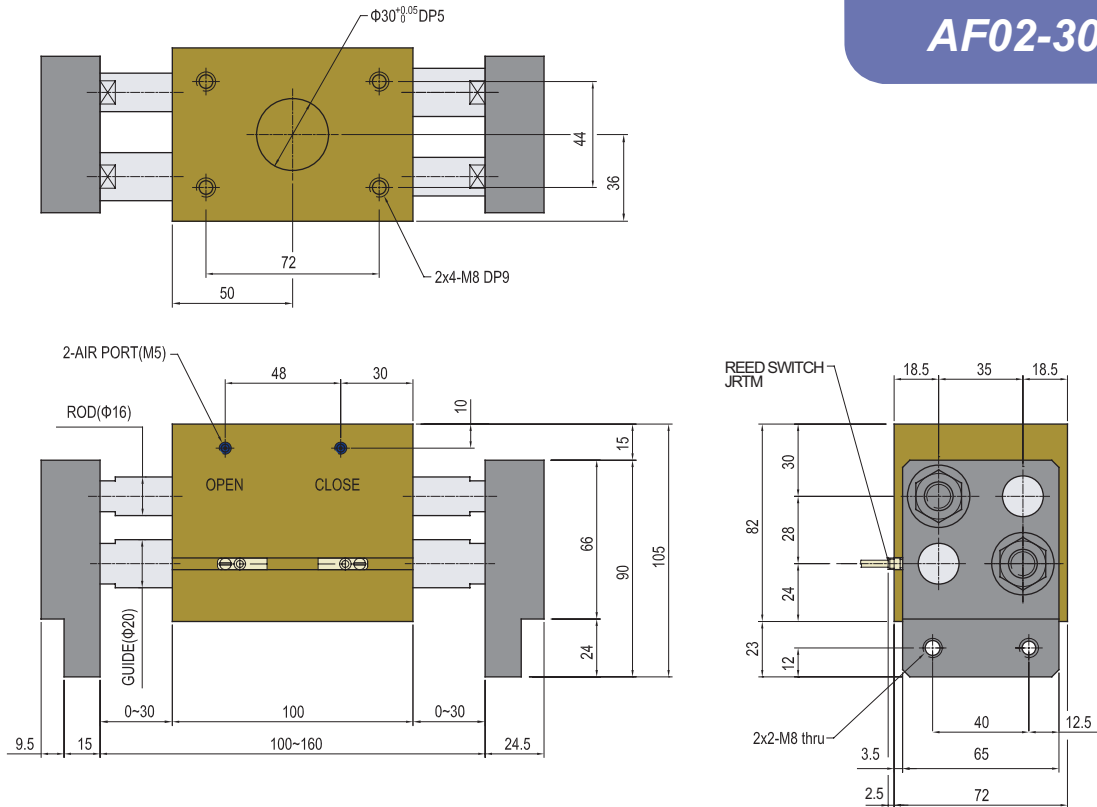


AF02-20B

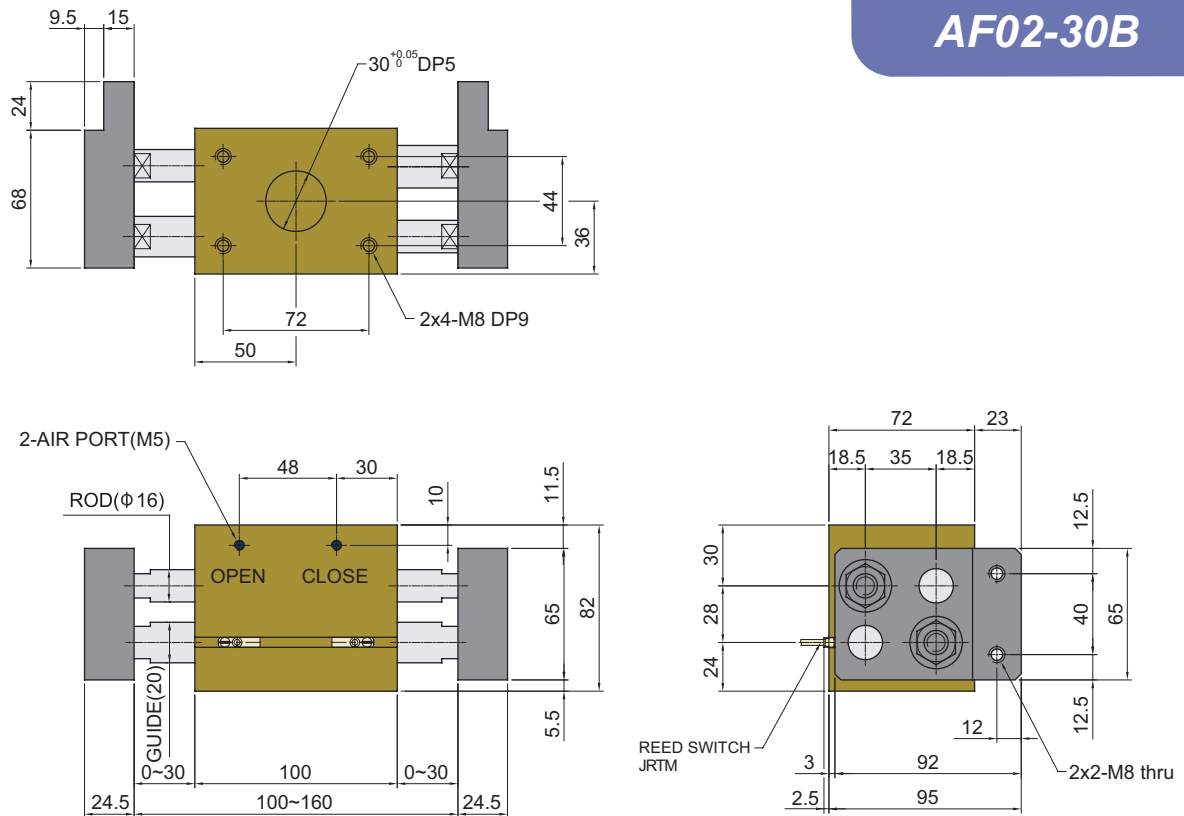


AF02

AF02-30A

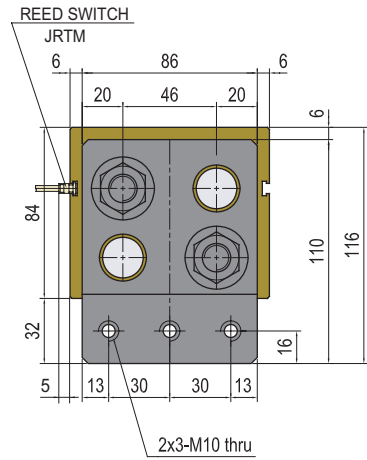
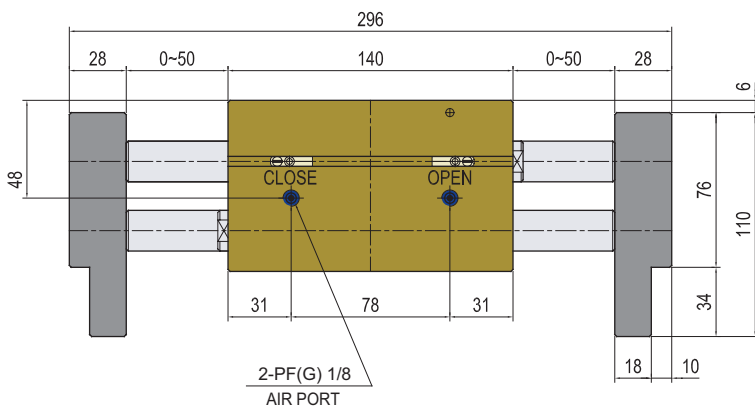
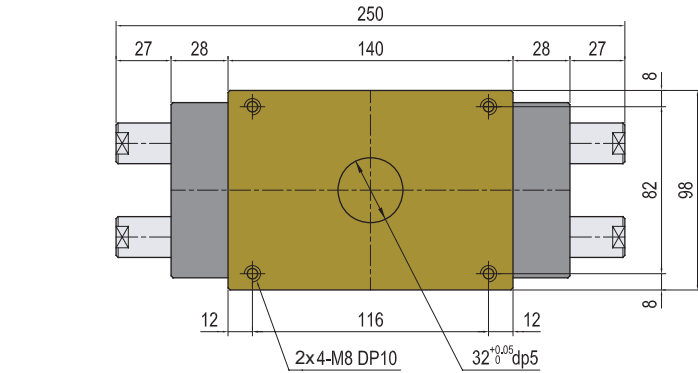


AF02-30B

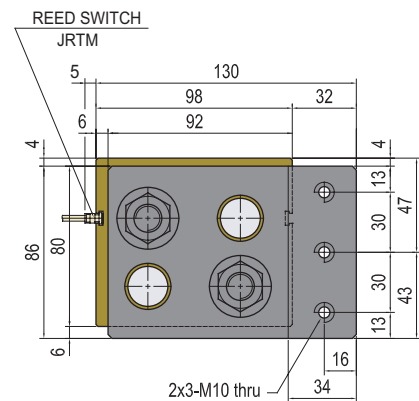
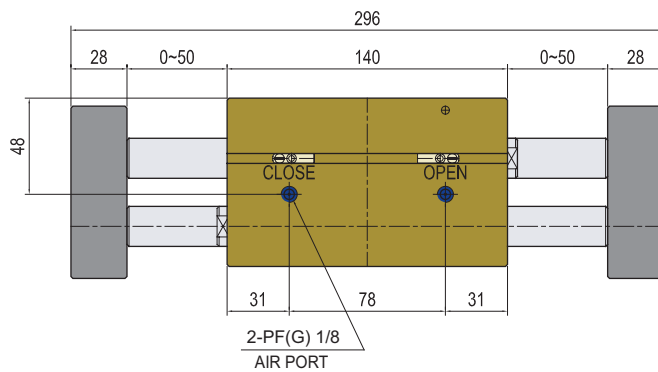
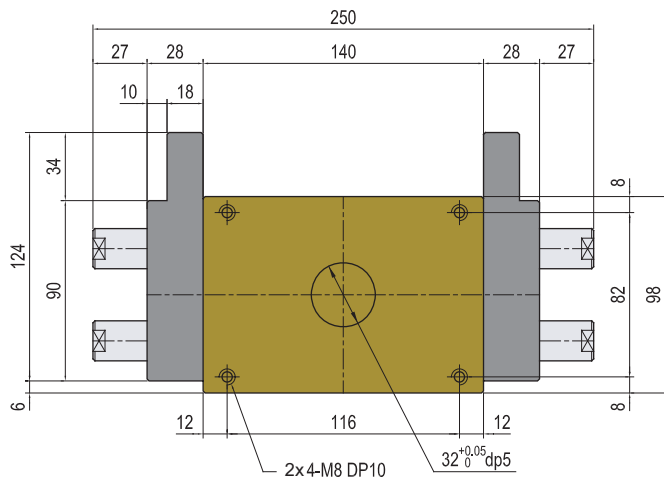


AF02

AF02-40A

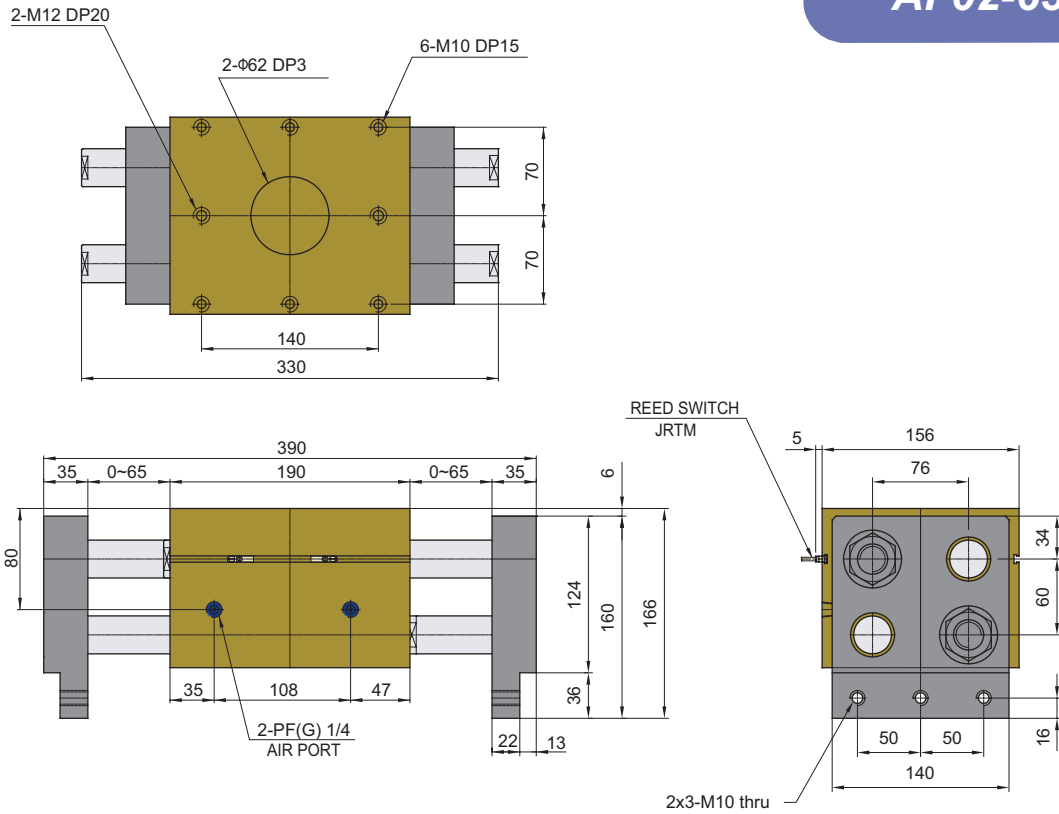


AF02-40B

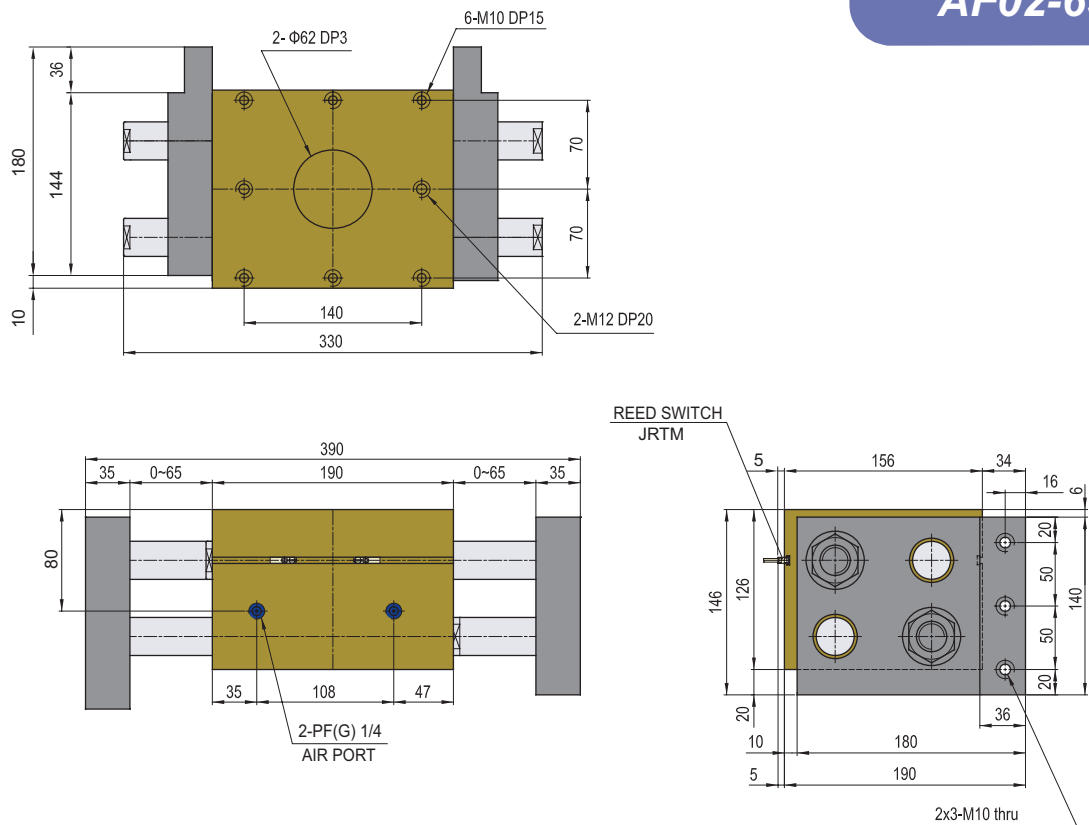


AF02

AF02-63A



AF02-63B



Notes

A large grid of dashed lines for taking notes. The grid consists of 20 columns and 25 rows of squares, with rounded corners on the top and bottom edges. The lines are thin and grey, creating a clean and professional appearance.

Gripper

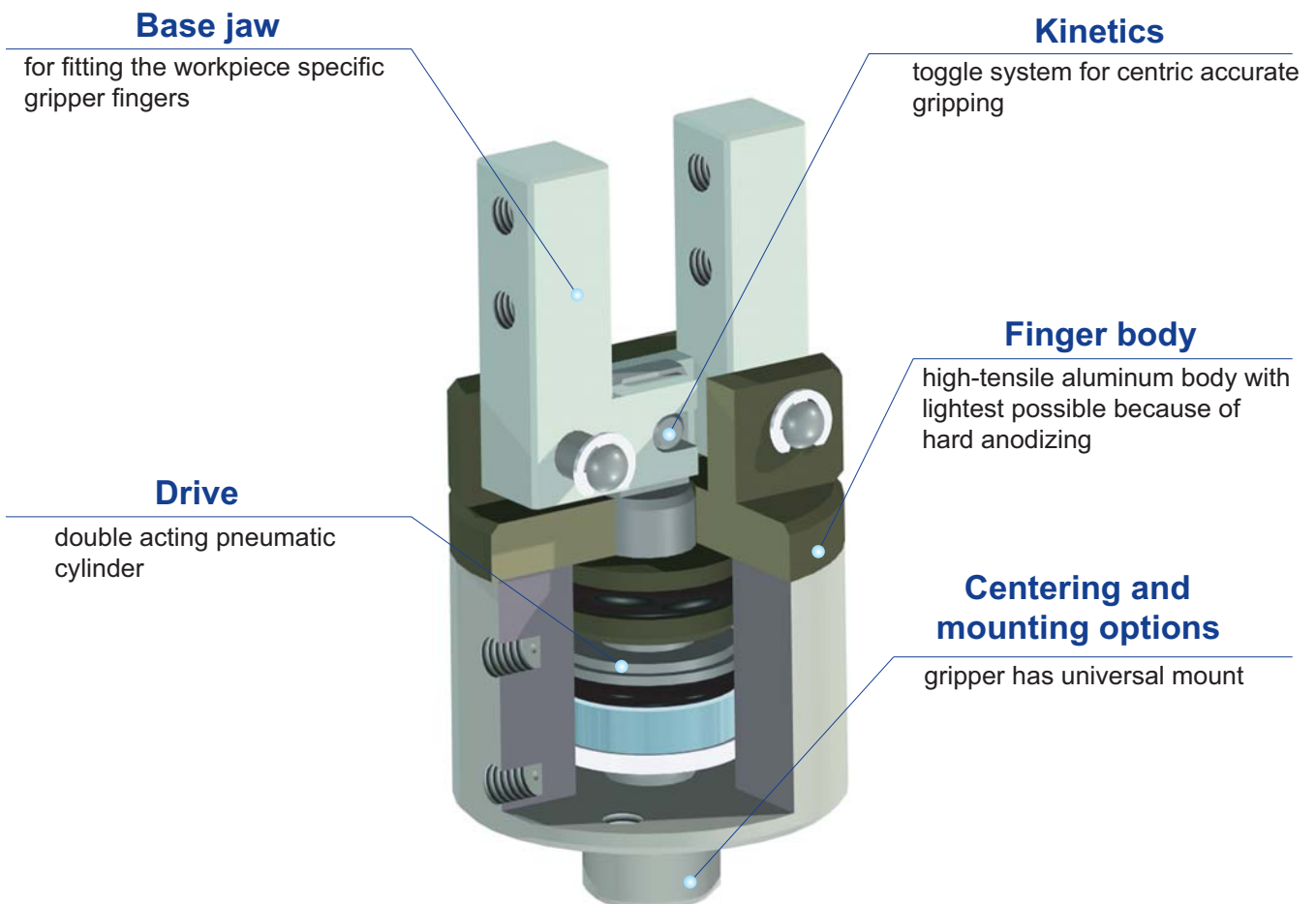
AF03-20,30,40

Character

- Angular type by link lever driving unit
- Extensive utility in general structure
- Magnetic sensor is available for open-close sensing
- Sensor is not available at Normally Open type, Normally Close type

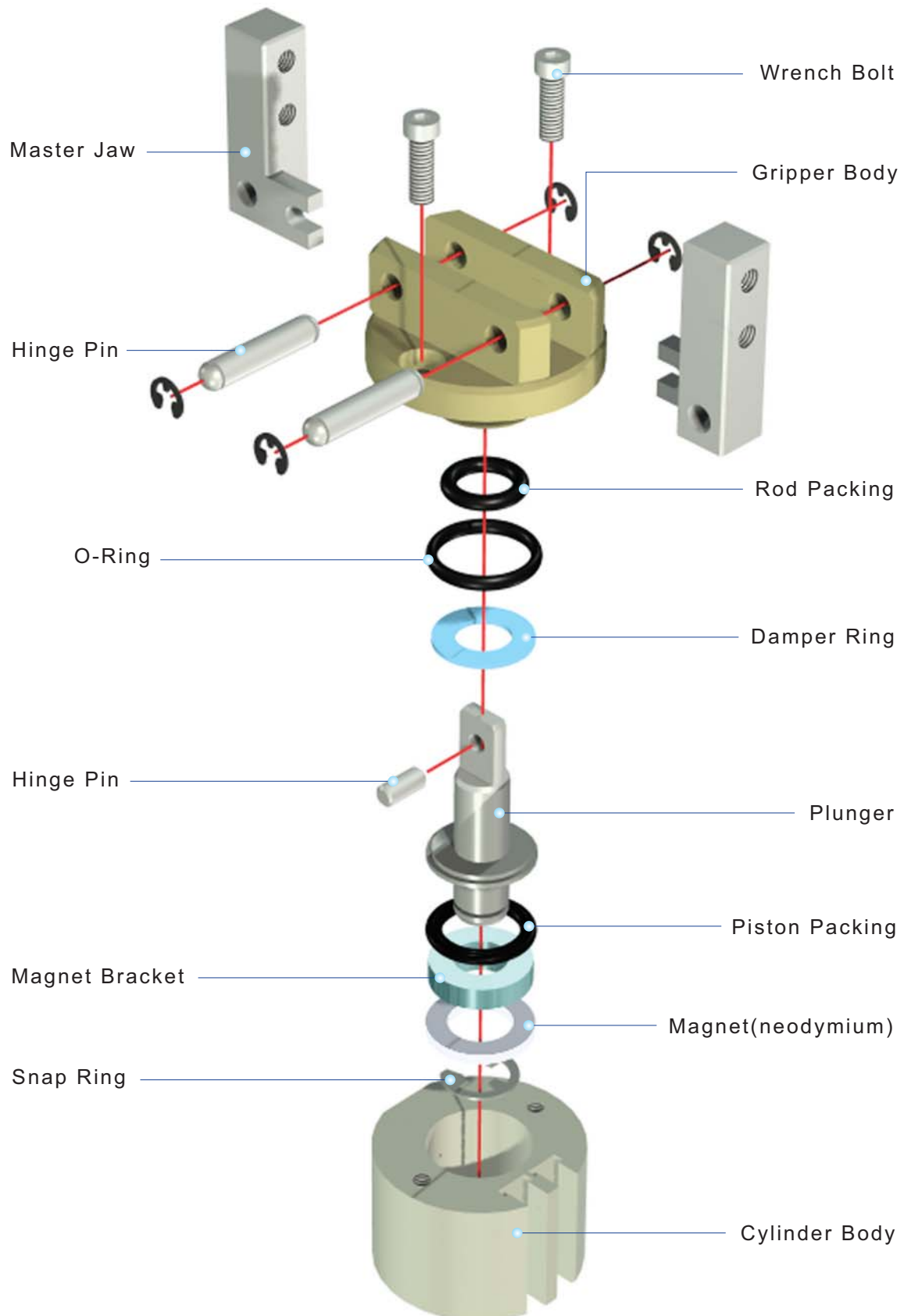


Link lever type



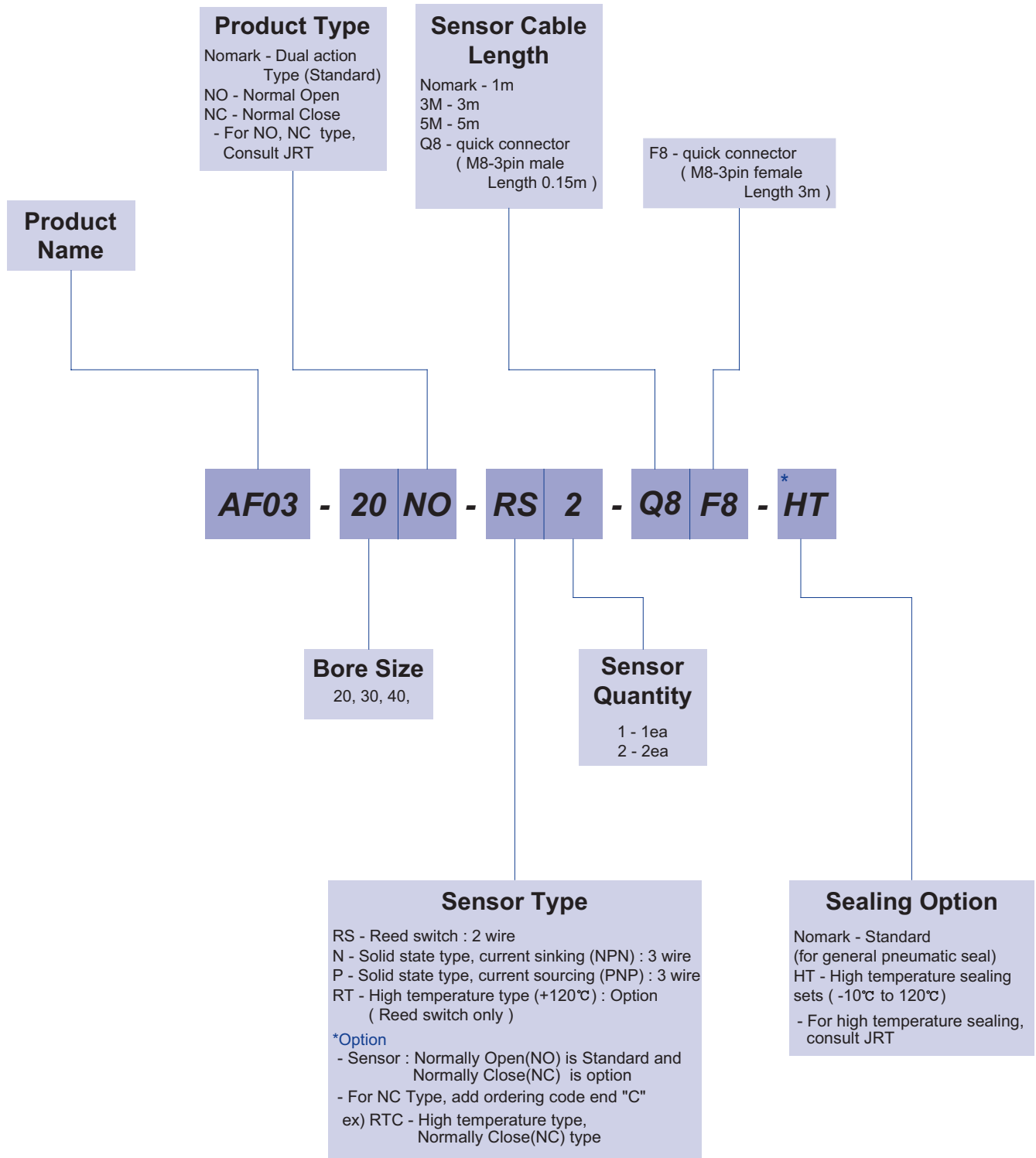
AF03

Exploded view



AF03

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF03

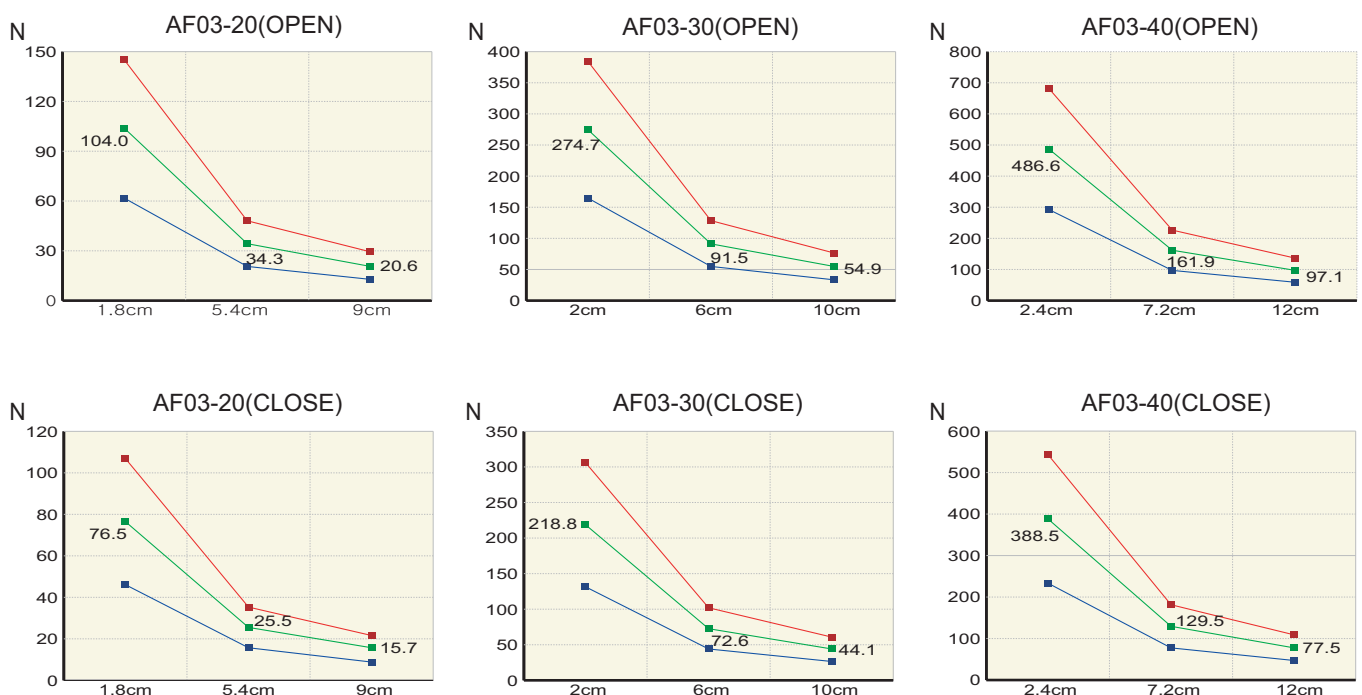
Specification

Products Name	AF03-20	AF03-30	AF03-40	Unit
Working angle	-4 to 19	-5 to 20	-5 to 25	degree
Weight	0.19	0.41	0.79	kg
Max. length of attach	90	100	120	mm
Fitting size	M5	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	37.28P/L	109.87P/L	233.48P/L	N
Gripping force:Close	27.47P/L	87.31P/L	186.39P/L	N
Air consumption per cycle	1.1	3.6	8.8	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.02	0.02	0.02	mm
Max.cycle per minute	60	40	40	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

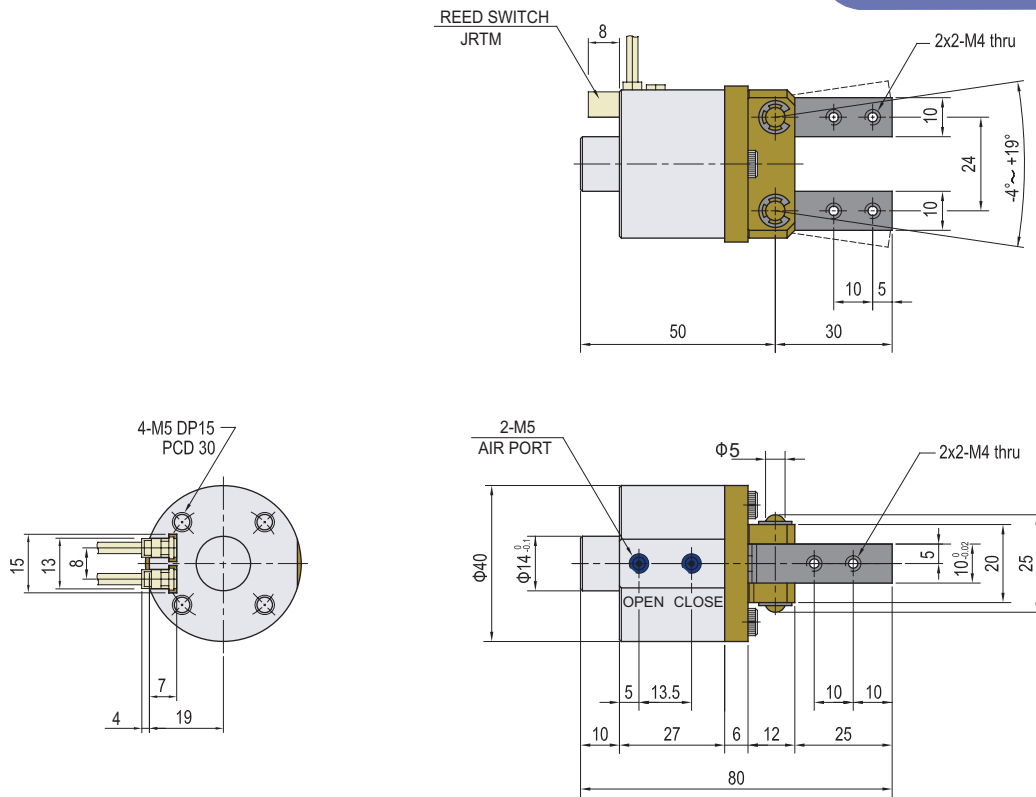
Gripping Force per exertion length

Legend : —■— 7[bar] —■— 5[bar] —■— 3[bar]

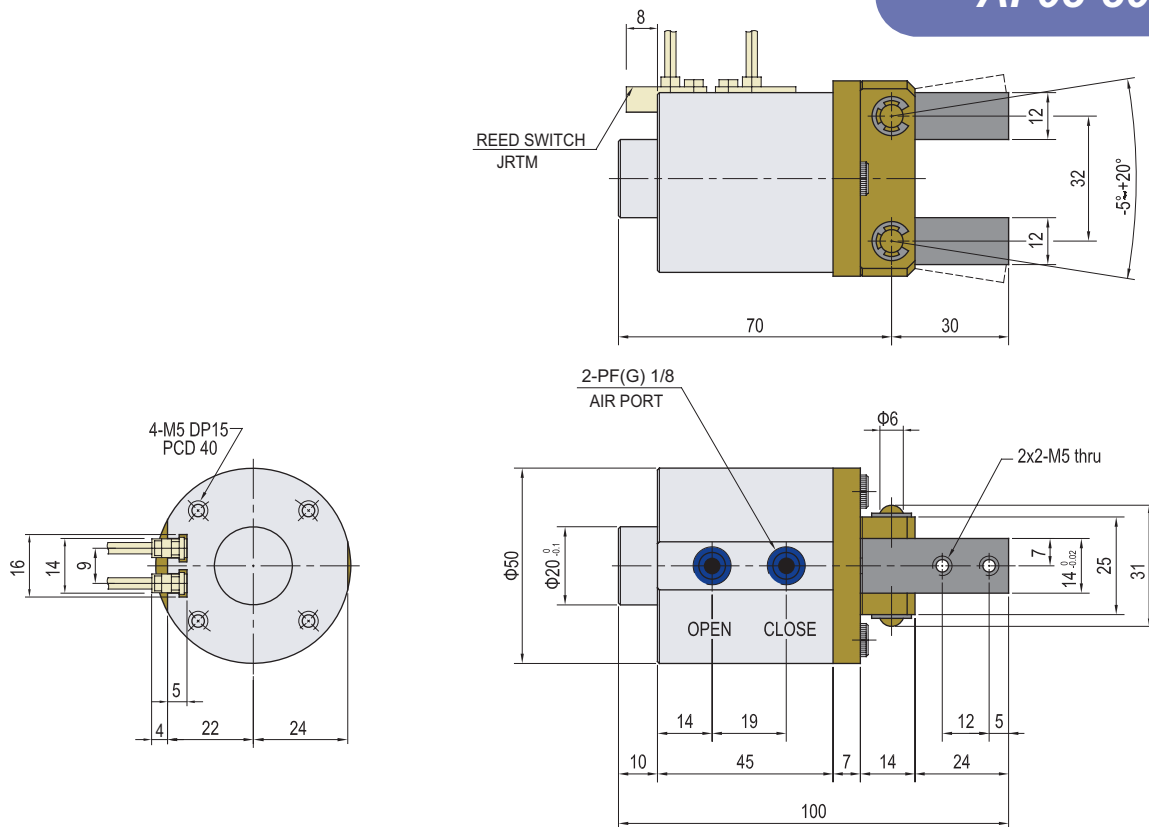


AF03

AF03-20

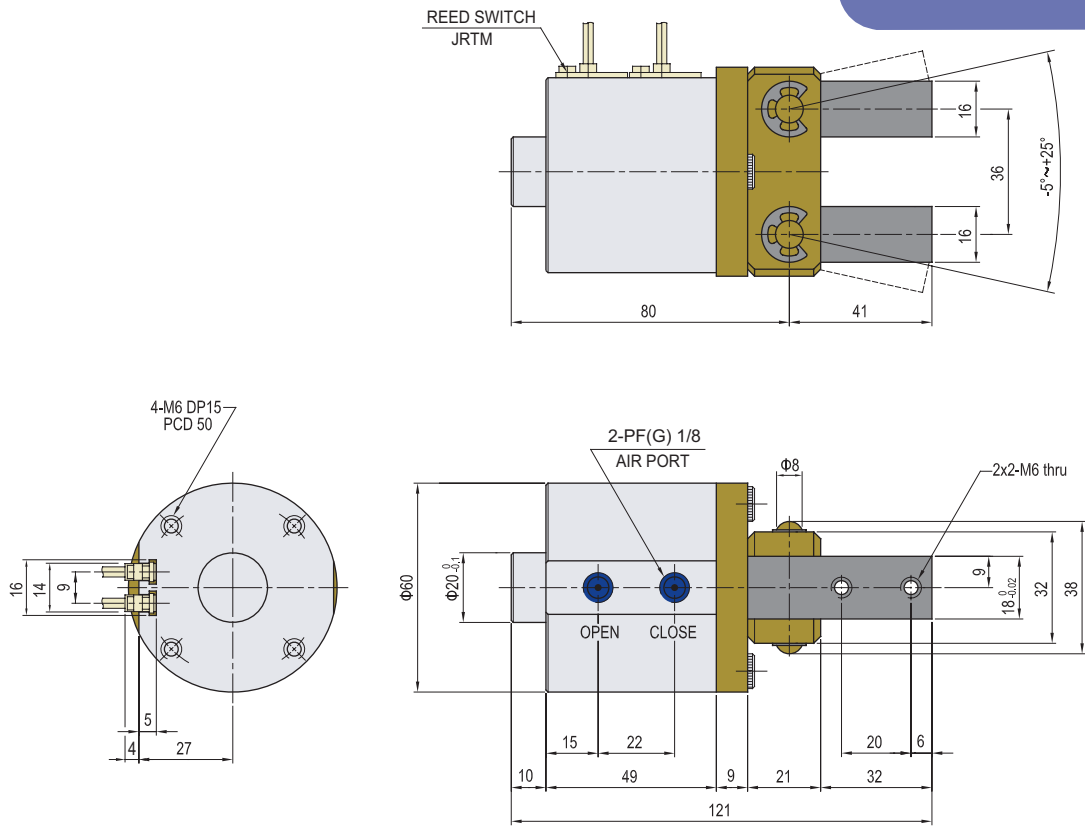


AF03-30



AF03

AF03-40



Note

Gripper

AF04P-12N,16,20

Character

- Magnetic sensor is available for open-close sensing
- Suitable to grip a small and light workpiece
- Mounting possible from 3 sides
- Small and slim body allows parallel mounting of many grippers



Roller guide type

Kinetics

roller guide type precise gripping because of base jaw guides with small clearance

Base jaw

for fitting the workpiece specific gripper fingers

Body

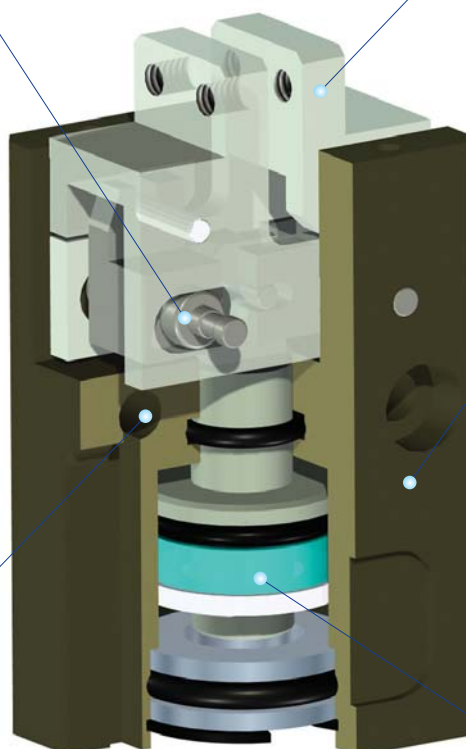
high-tensile aluminum body with lightest possible because of hard anodizing

Positioning of sensor

for magnetic sensor

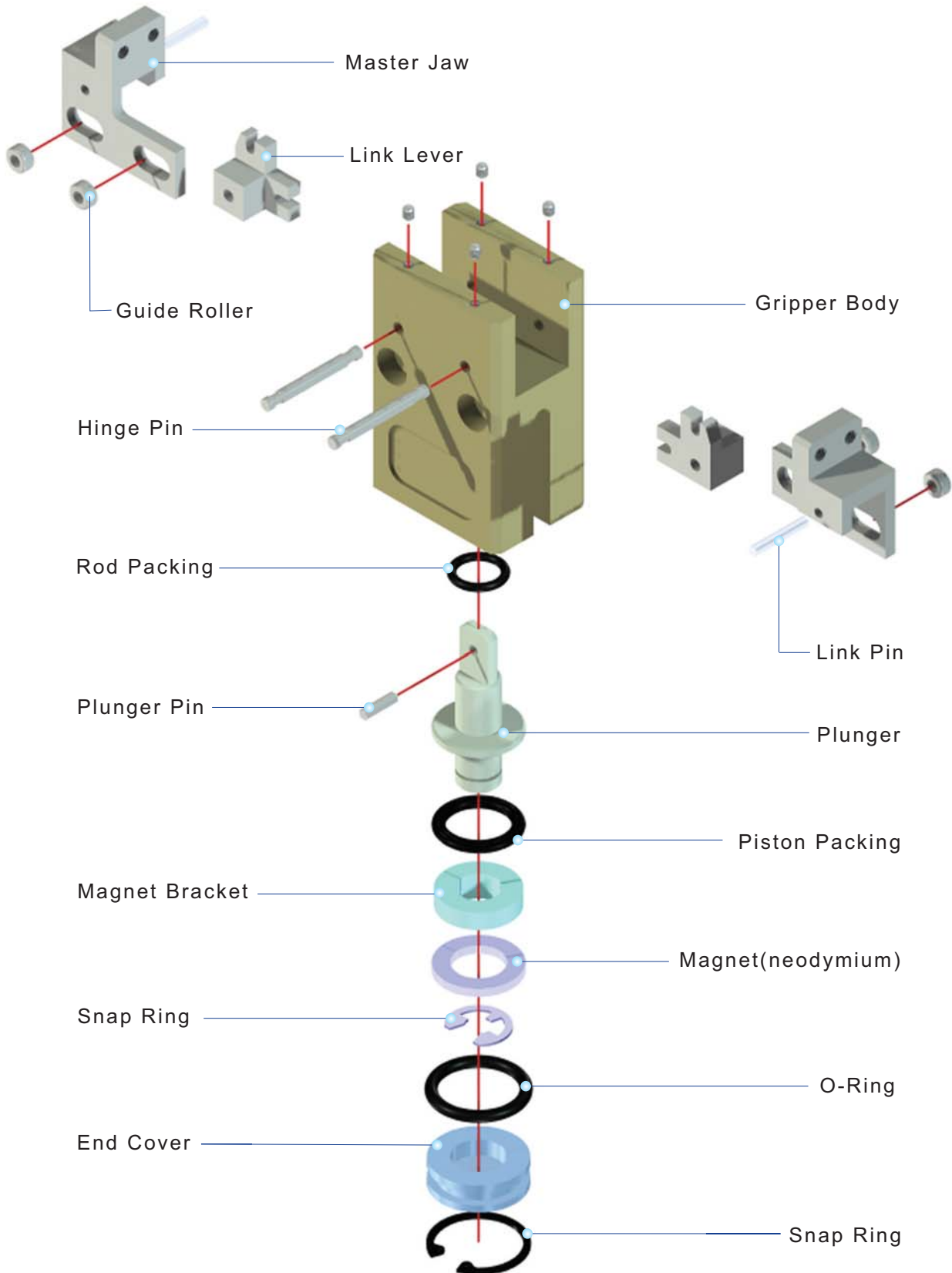
Drive

double acting pneumatic cylinder



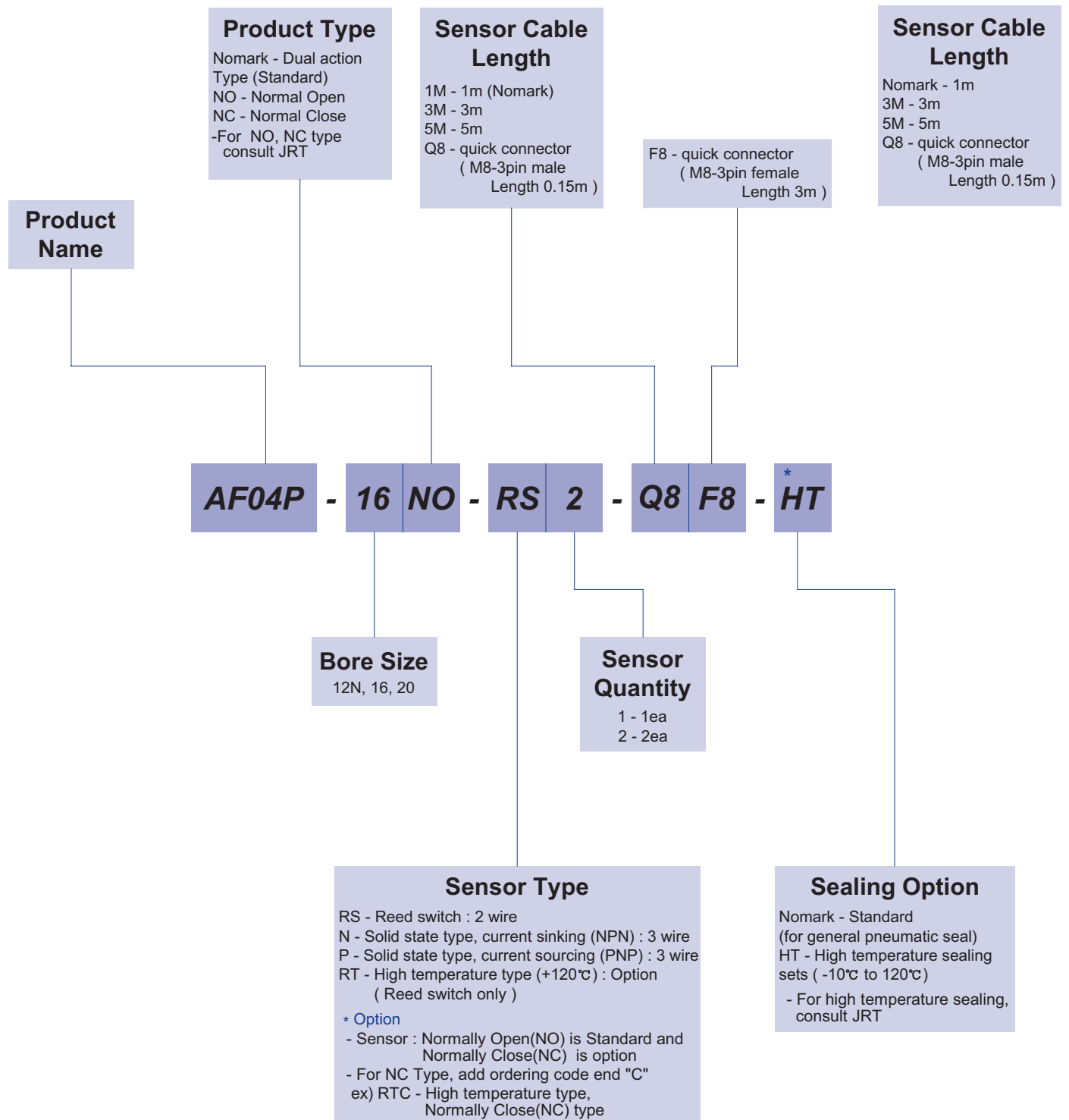
AF04P

Exploded view



AF04P

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF04P

Specification

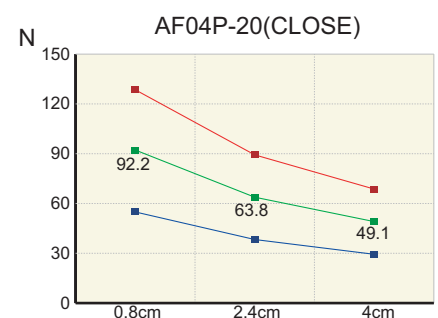
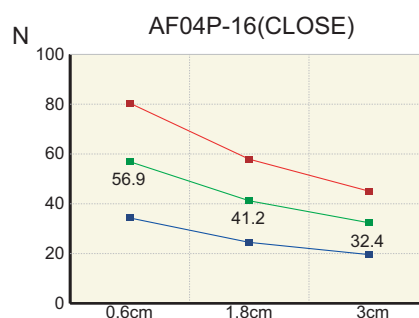
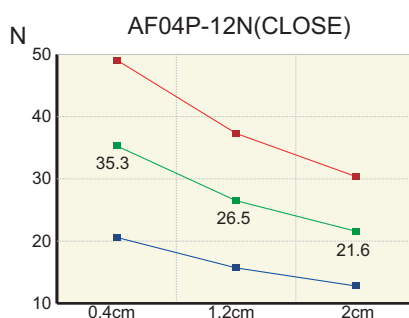
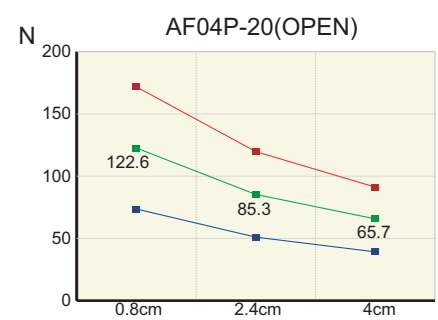
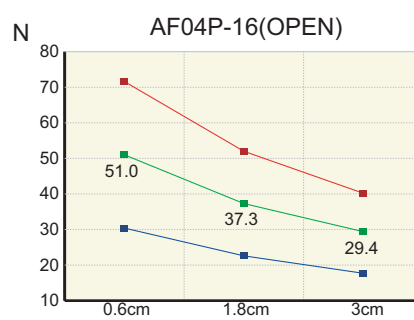
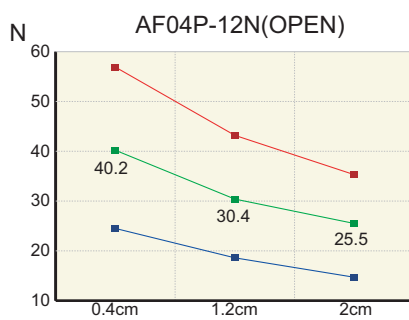
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF04P-12N	AF04P-16	AF04P-20	Unit
Stroke	5	5	8	mm
Weight	0.08	0.15	0.2	kg
Max. length of attach	20	30	40	mm
Fitting size	M5	M5	M5	
Gripping force:Open	$9.52P/(1+0.045L)$	$12.75P/(1+0.04L)$	$31.39P/(1+0.035L)$	N
Gripping force:Close	$8.24P/(1+0.046L)$	$14.22P/(1+0.04L)$	$23.54P/(1+0.035L)$	N
Air consumption per cycle	1.0	1.8	4.4	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.01	0.01	0.01	mm
Max.cycle per minute	20	20	20	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

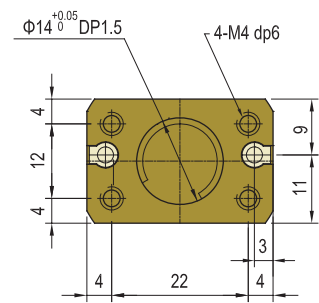
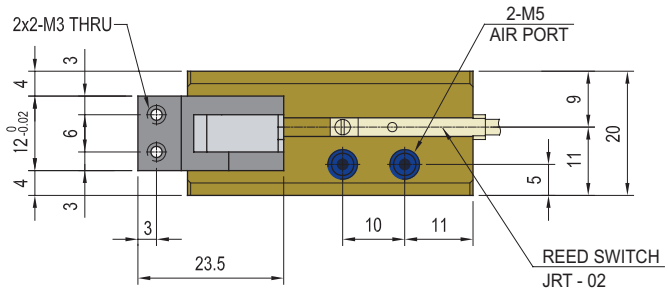
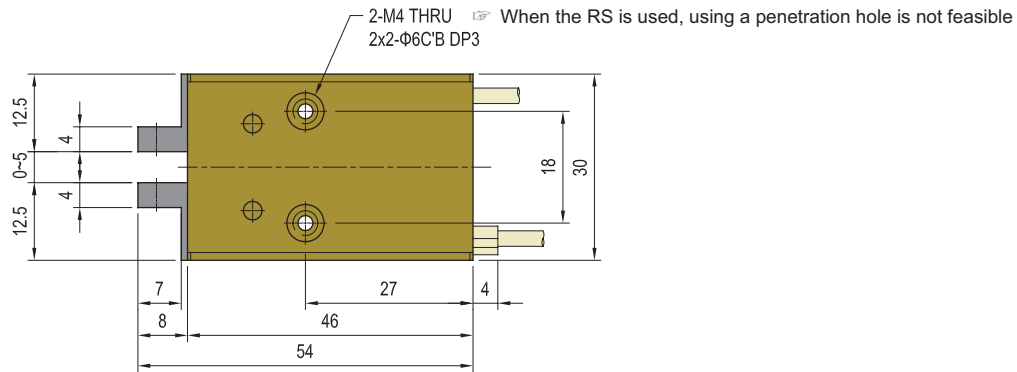
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

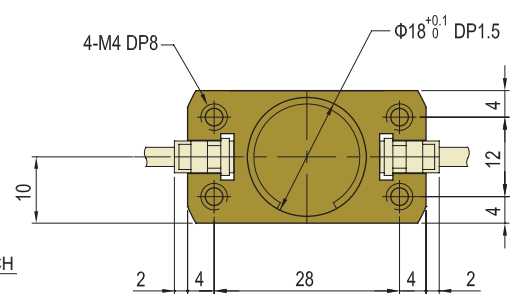
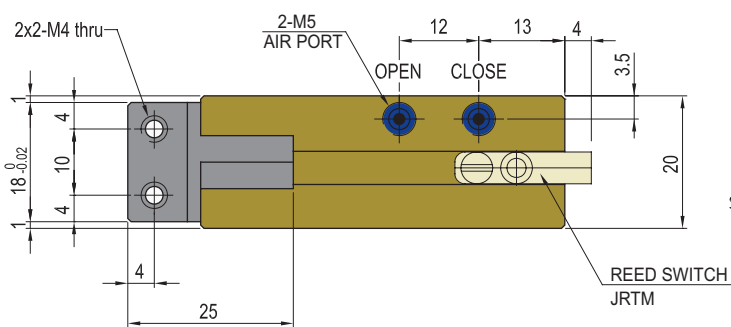
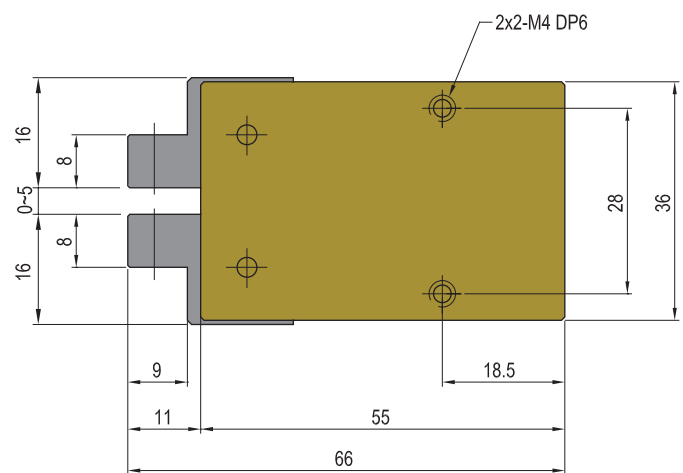


AF04P

AF04P-12N

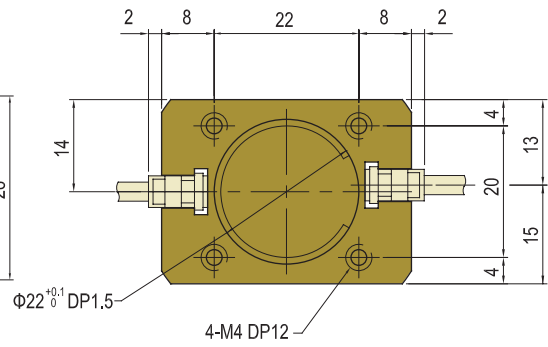
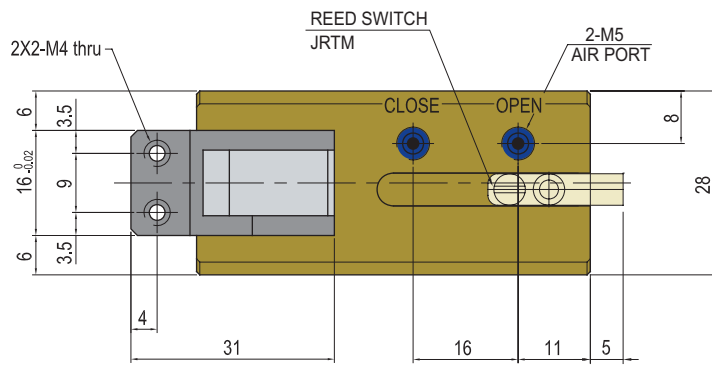
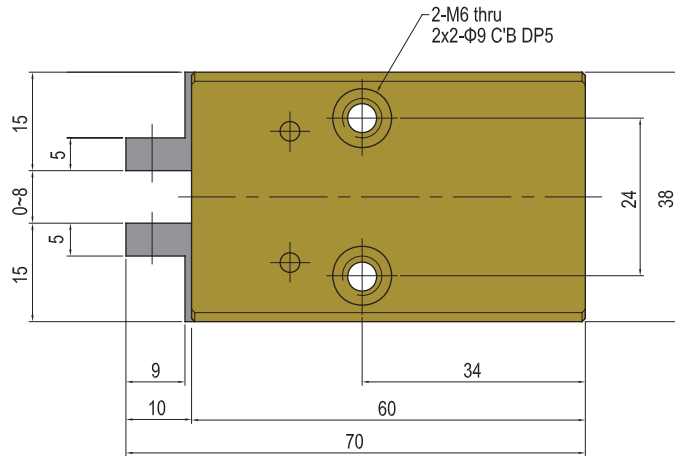


AF04P-16



AF04P

AF04P-20



Note

Gripper

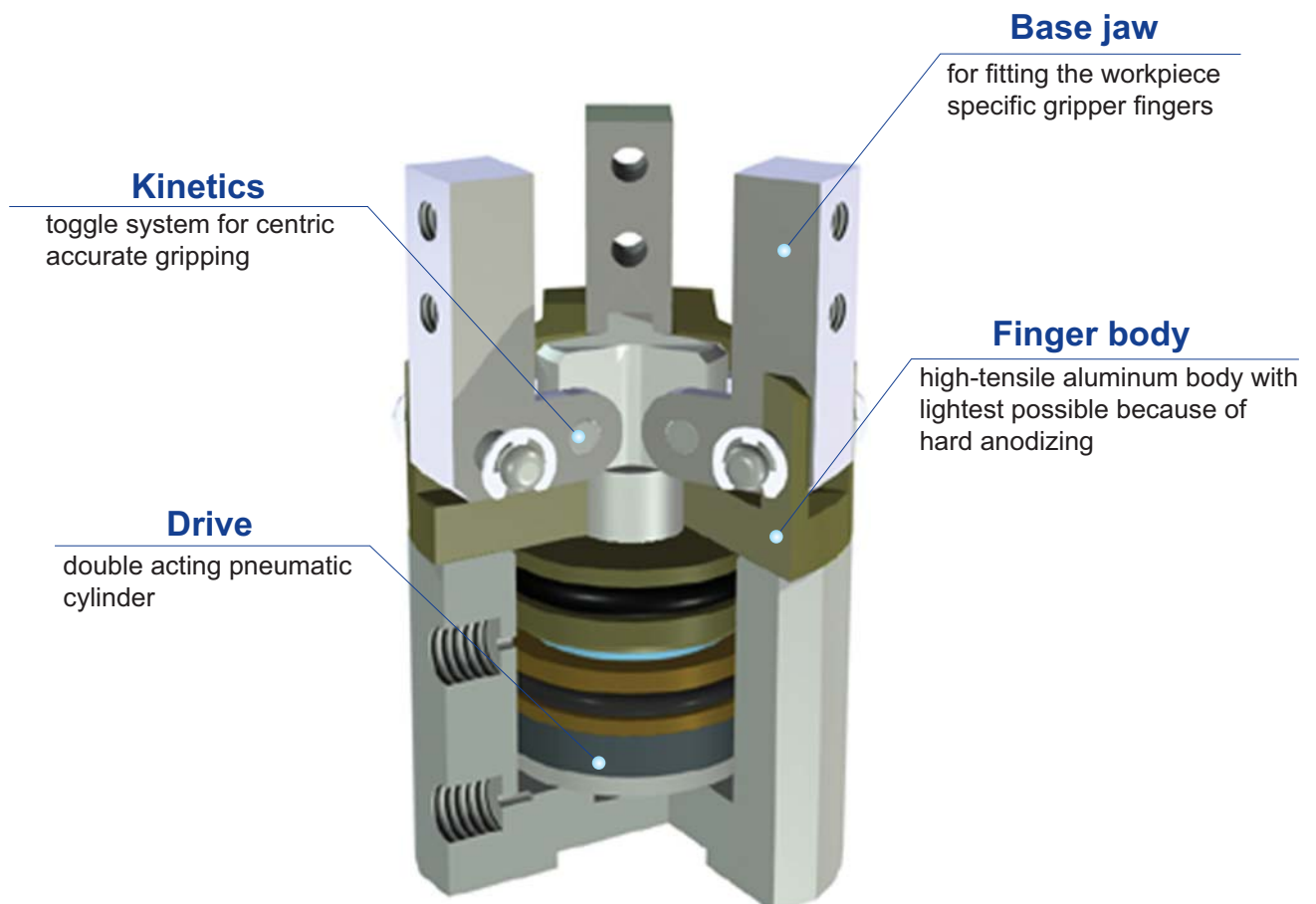
AF06-30,40

Character

- Angular type by link lever driving unit
- Suitable to grip for cylindrical & global workpiece
- Magnetic sensor is available for open-close sensing

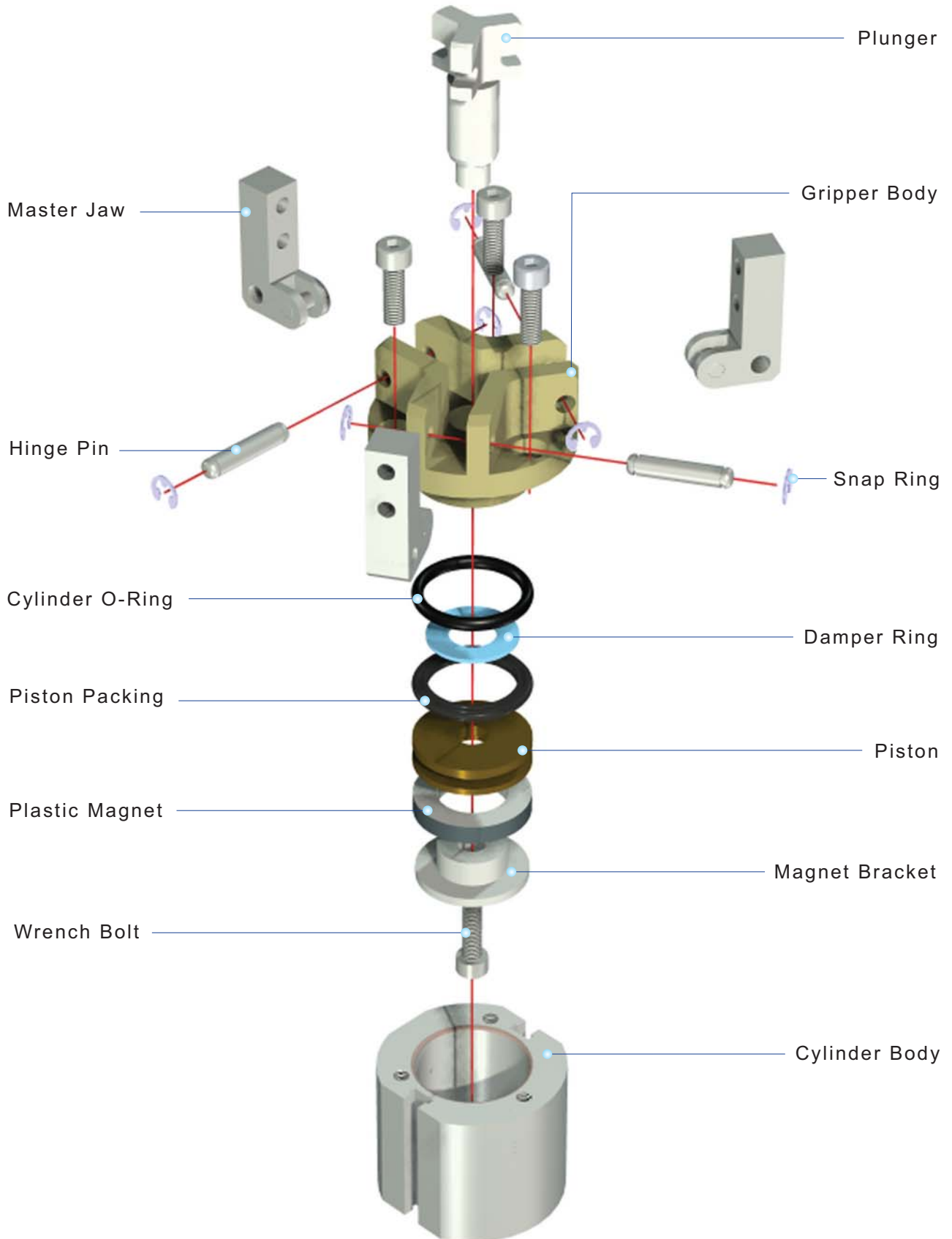


Link lever type



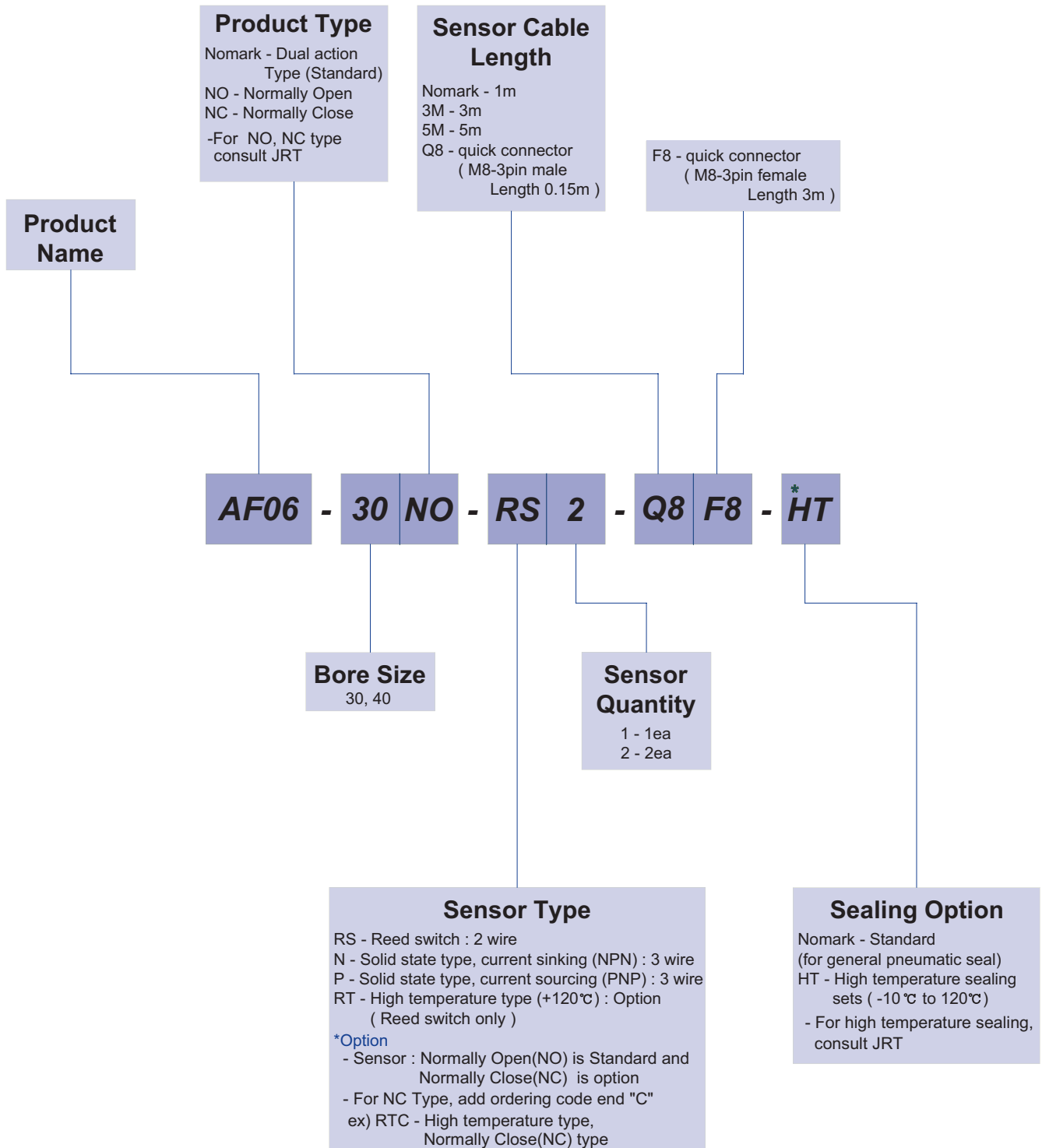
AF06

Exploded view



AF06

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF06

Specification

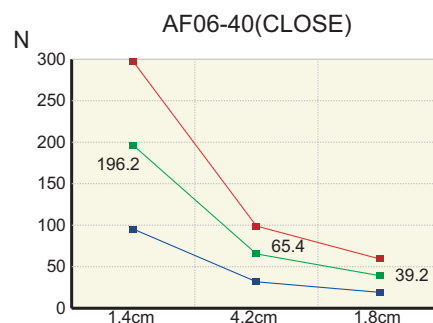
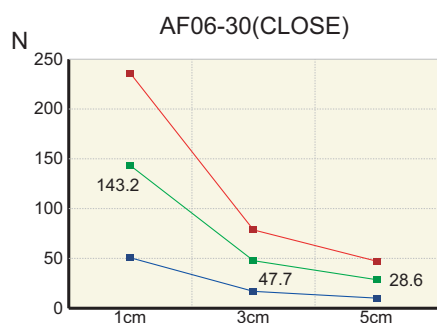
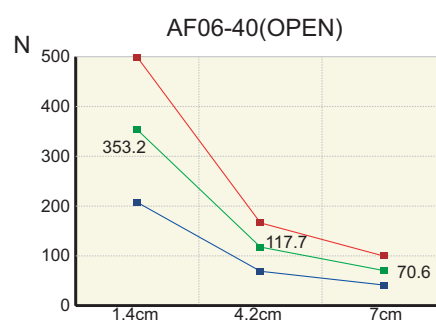
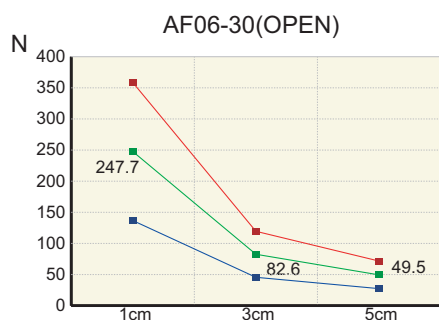
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF06-30	AF06-40	Unit
Working angle	-5 to 20	-5 to 20	degree
Weight	0.39	0.64	kg
Max. length of attach	50	70	mm
Fitting size	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	$9.81((5.65P-3)/L)$	$9.81((10.4P-1.6)/L)$	N
Gripping force:Close	$9.81((4.72P-9)/L)$	$9.81((7.2P-8)/L)$	N
Air consumption per cycle	2.6	5.8	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.02	0.02	mm
Max.cycle per minute	30	30	
Operating pressure	3~7		bar
Ambient temperature	-5 to 60		°C
Lubrication	Needless		

* After 100 consecutive strokes to end positions

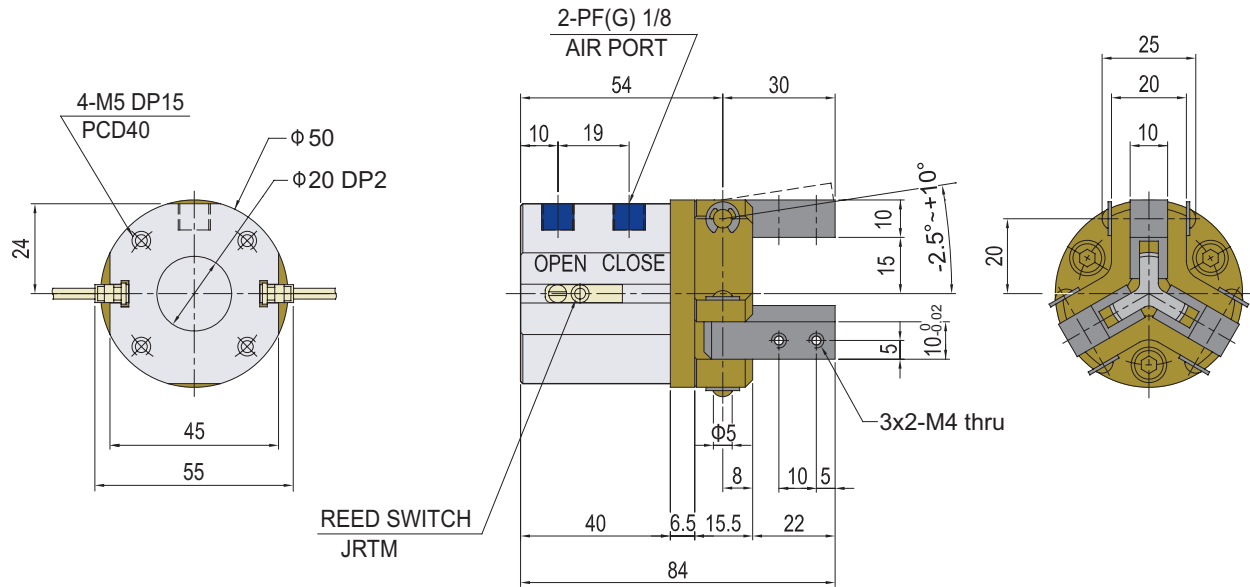
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

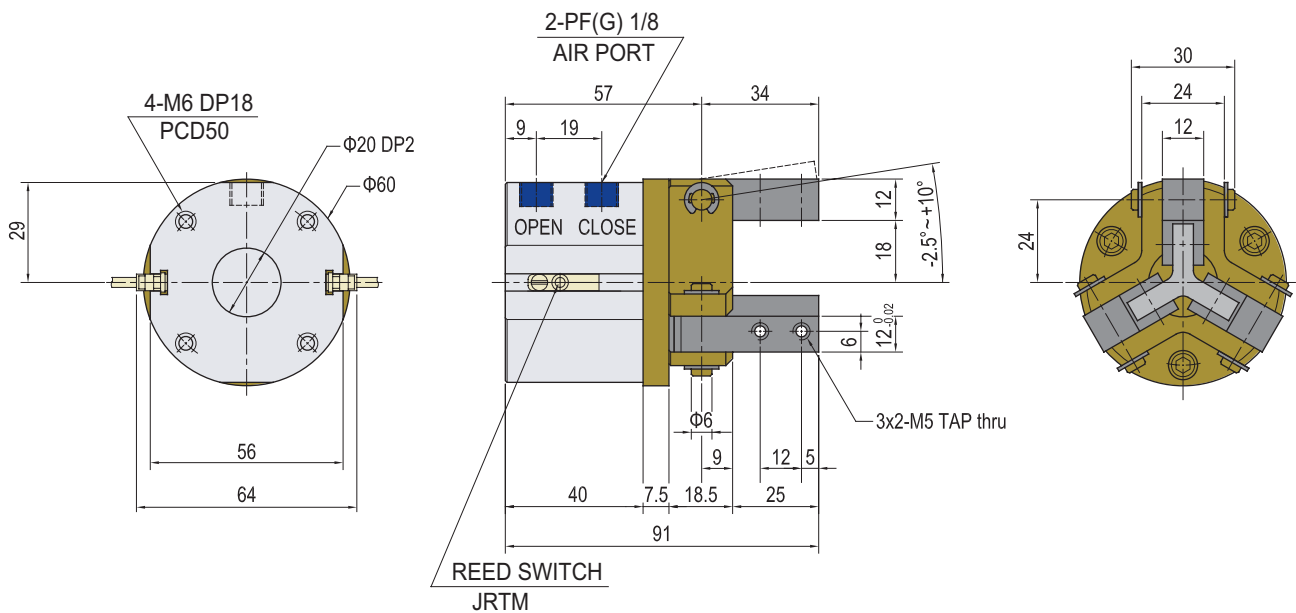


AF06

AF06-30



AF06-40



Notes

A large grid of dashed lines for taking notes, consisting of 20 columns and 30 rows. The grid is contained within a rounded rectangular border.

Gripper

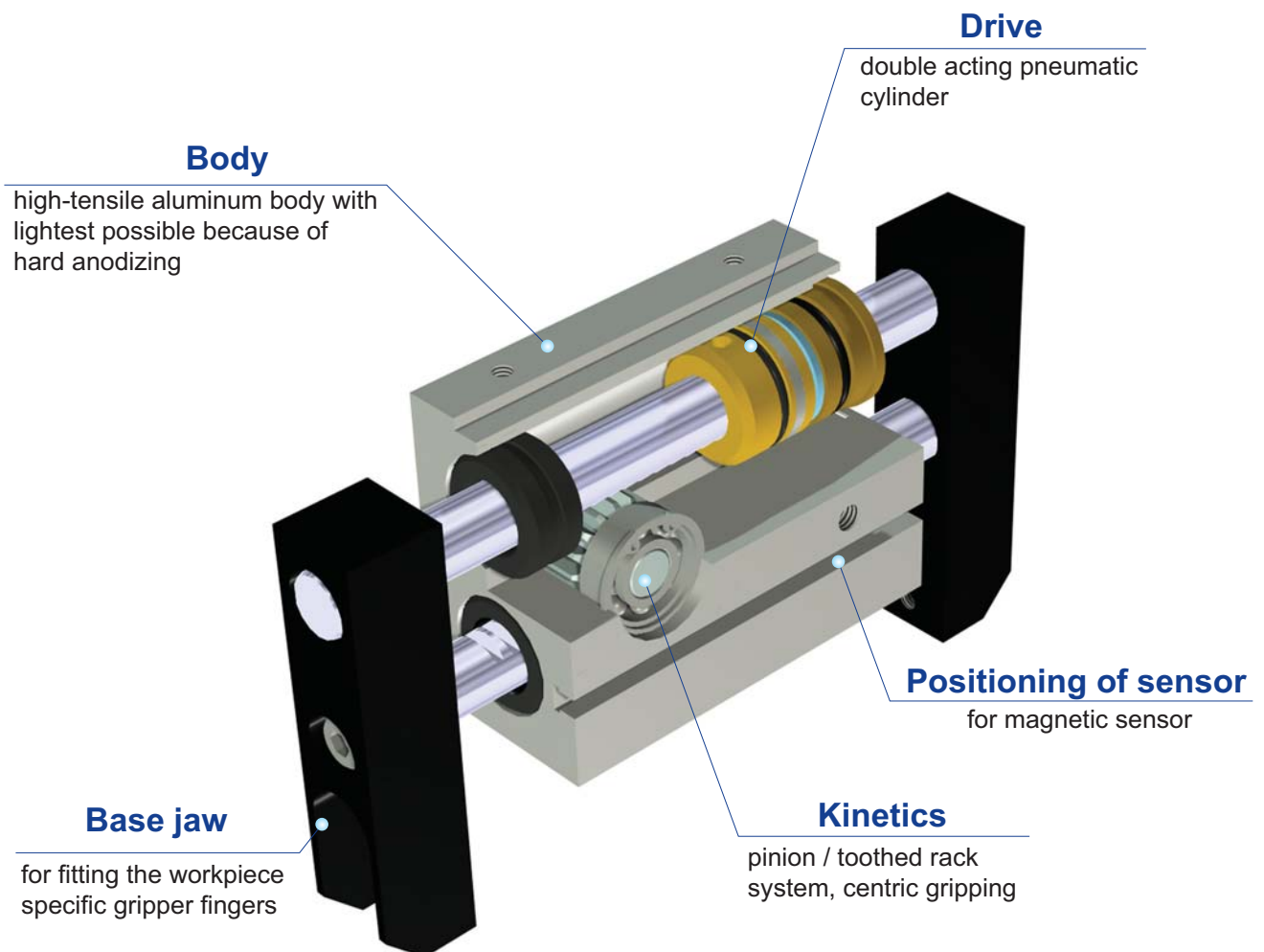
AF10-20,30,40,50

Character

- Rack & pinion type
- High gripping forces by the structure of synchronized dual piston
- Magnetic sensor is available for open-close sensing

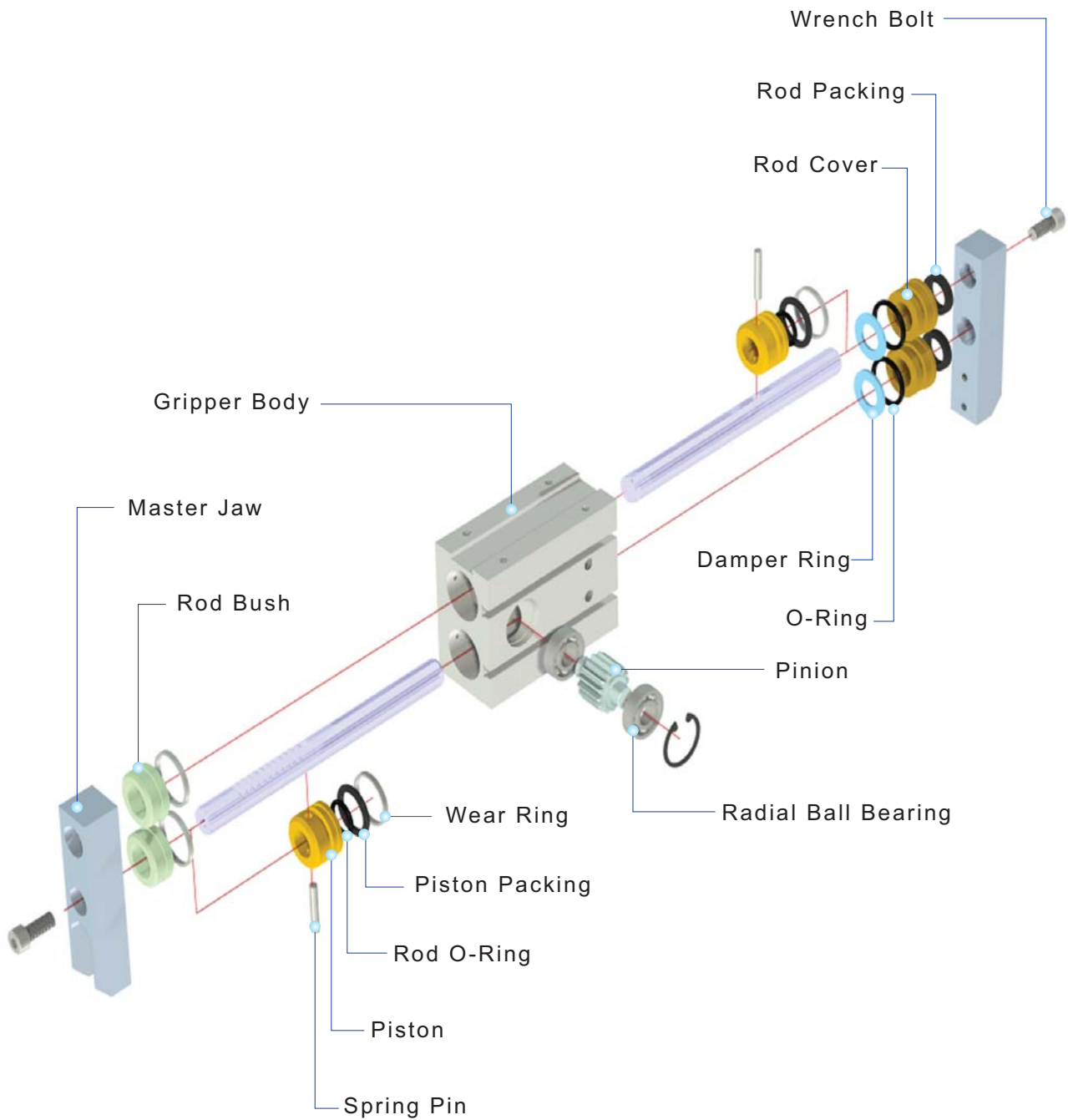


Rack & pinion type



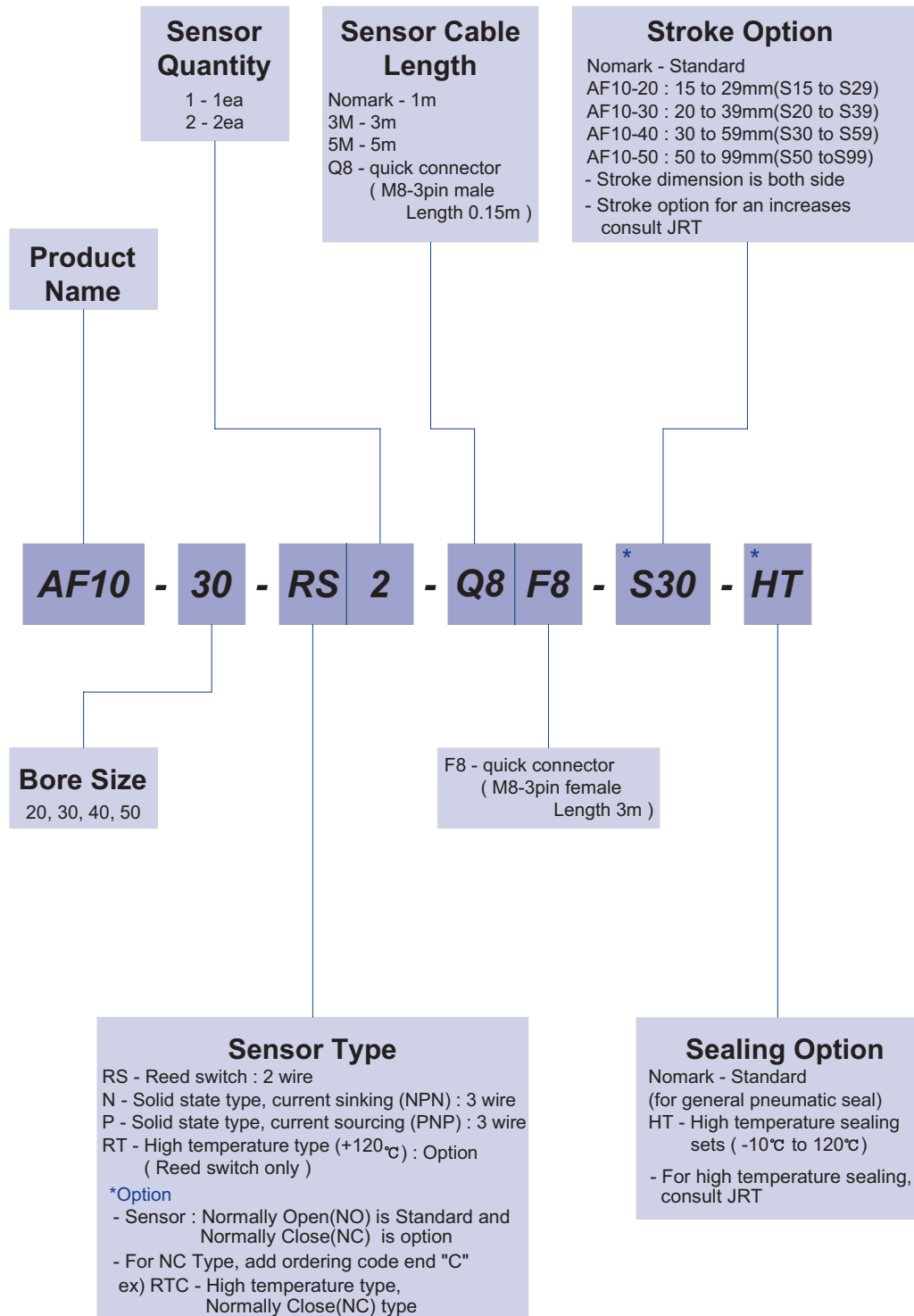
AF10

Exploded view



AF10

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF10

Specification

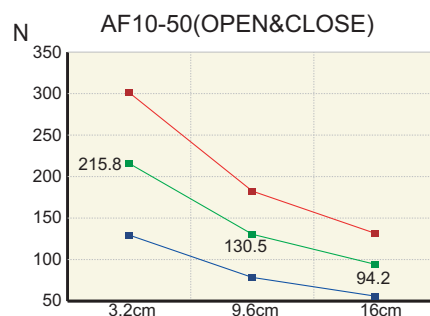
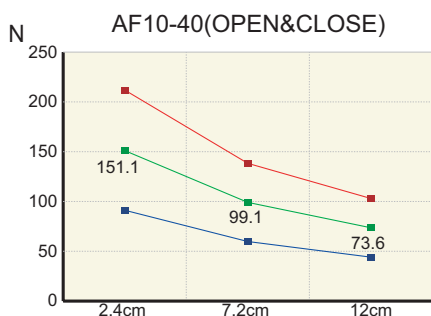
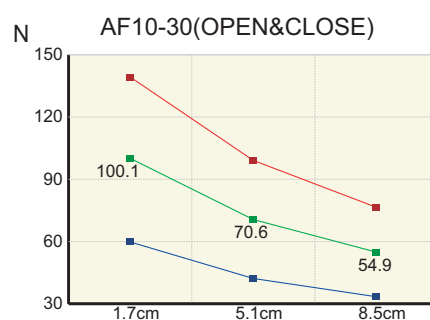
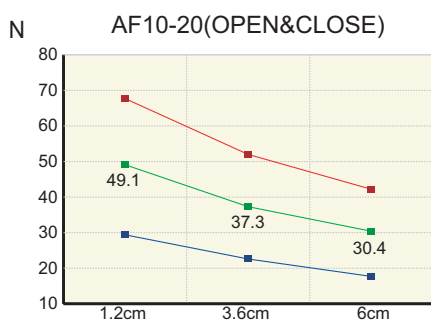
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF10-20	AF10-30	AF10-40	AF10-50	Unit
Stroke	30	40	60	100	mm
Weight	0.67	1.96	4.6	9.22	kg
Max. length of attach	60	85	120	160	mm
Fitting size	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	11.48P/(1+0.015L)	25.02P/(1+0.015L)	41.2P/(1+0.015L)	63.77P/(1+0.015L)	N
Gripping force:Close					
Air consumption per cycle	8.2	24.3	66.0	171.8	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.03 / 0.03	0.09 / 0.09	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	60	60	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

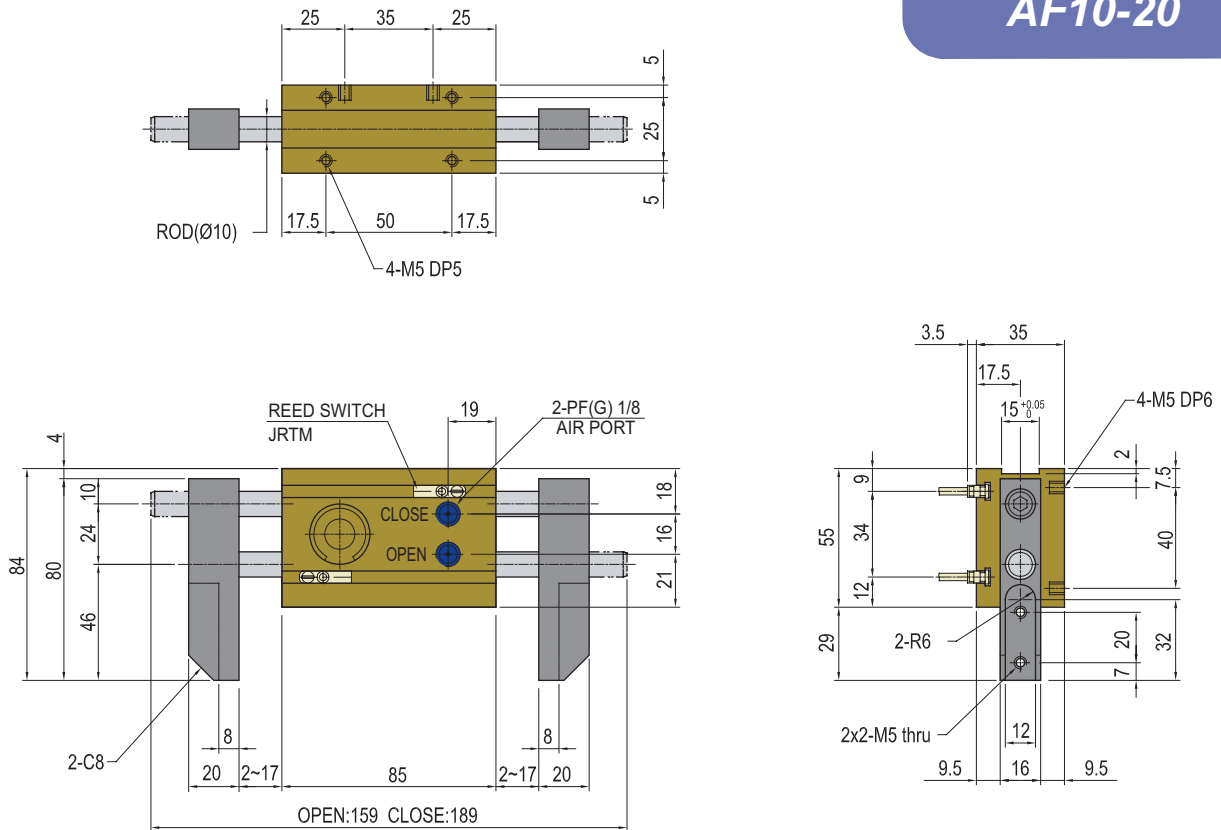
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

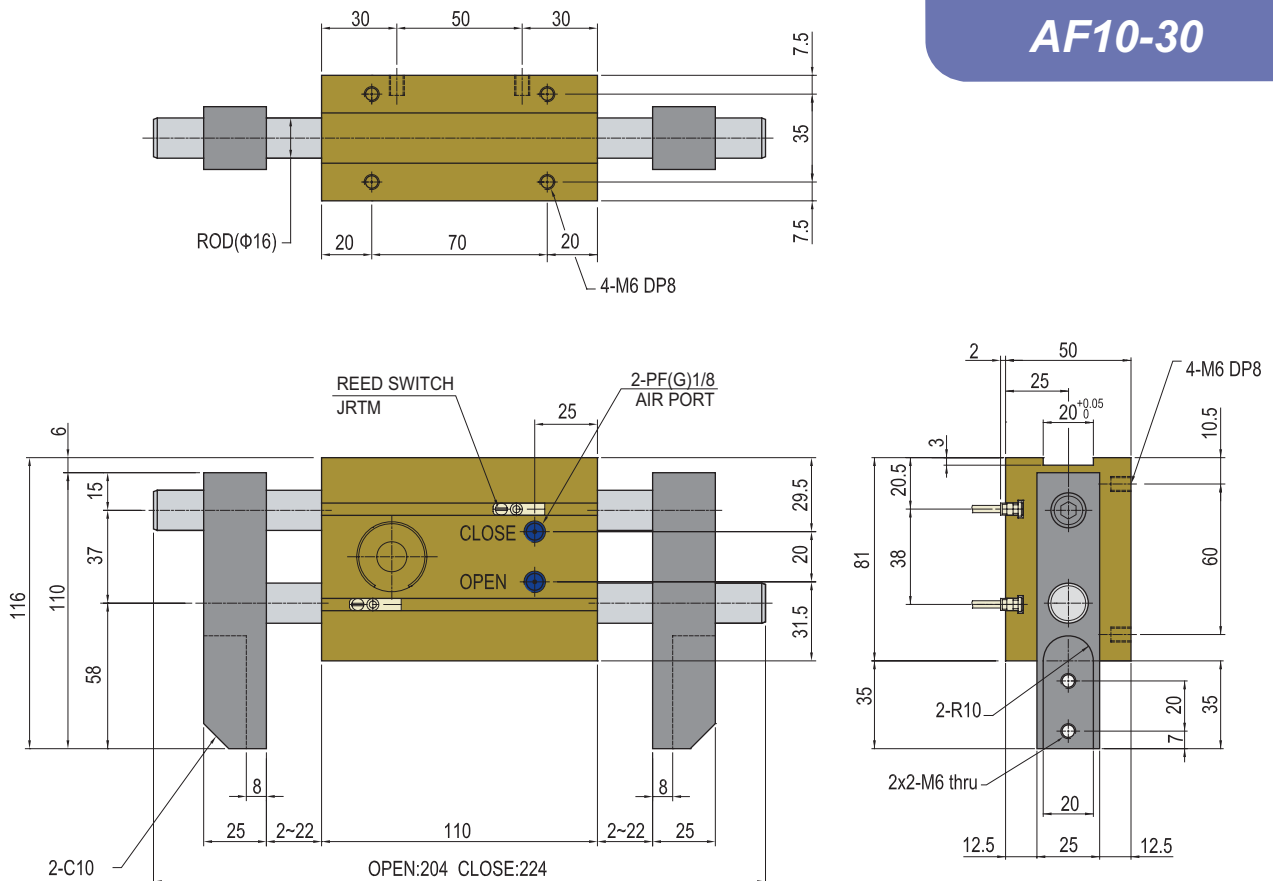


AF10

AF10-20

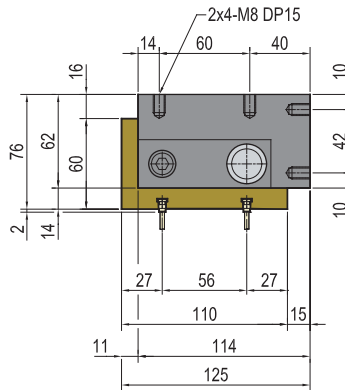
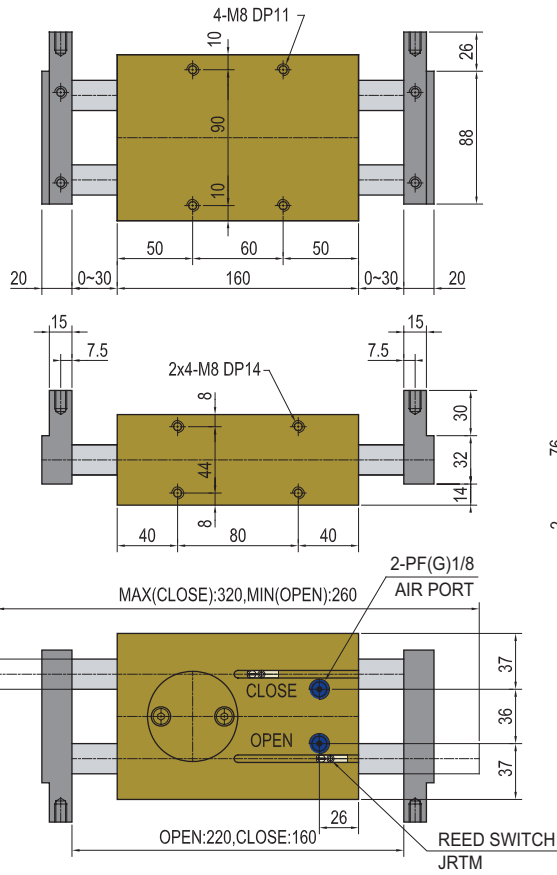


AF10-30

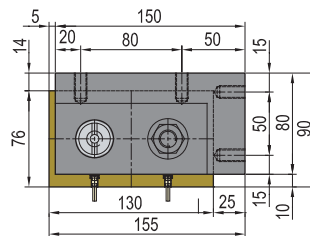
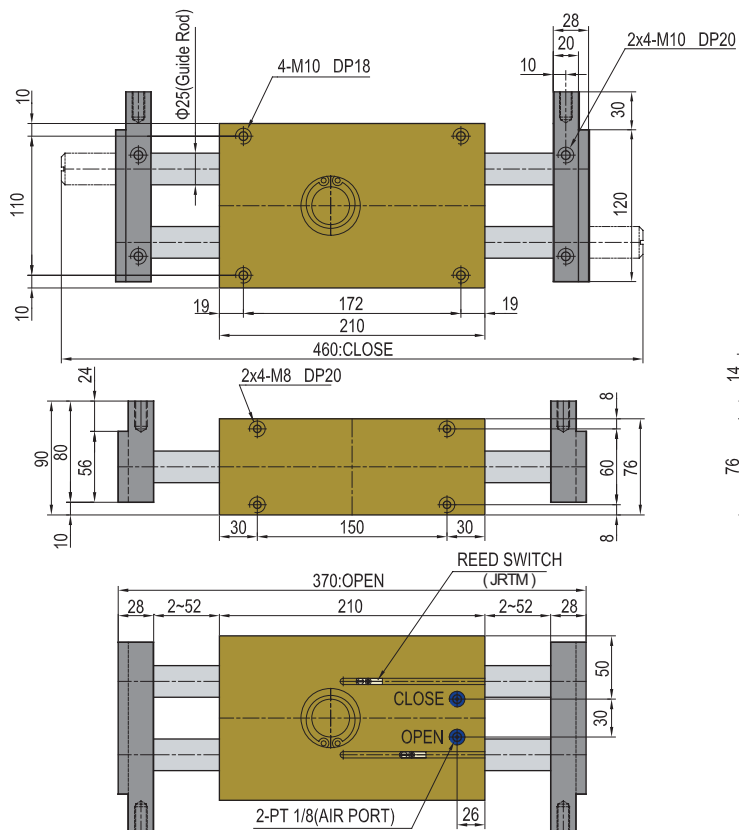


AF10

AF10-40



AF10-50

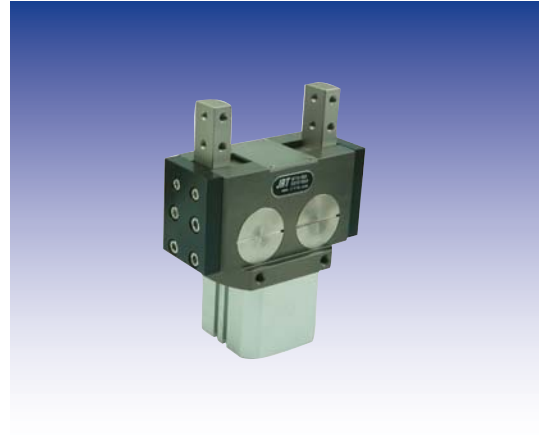


Gripper

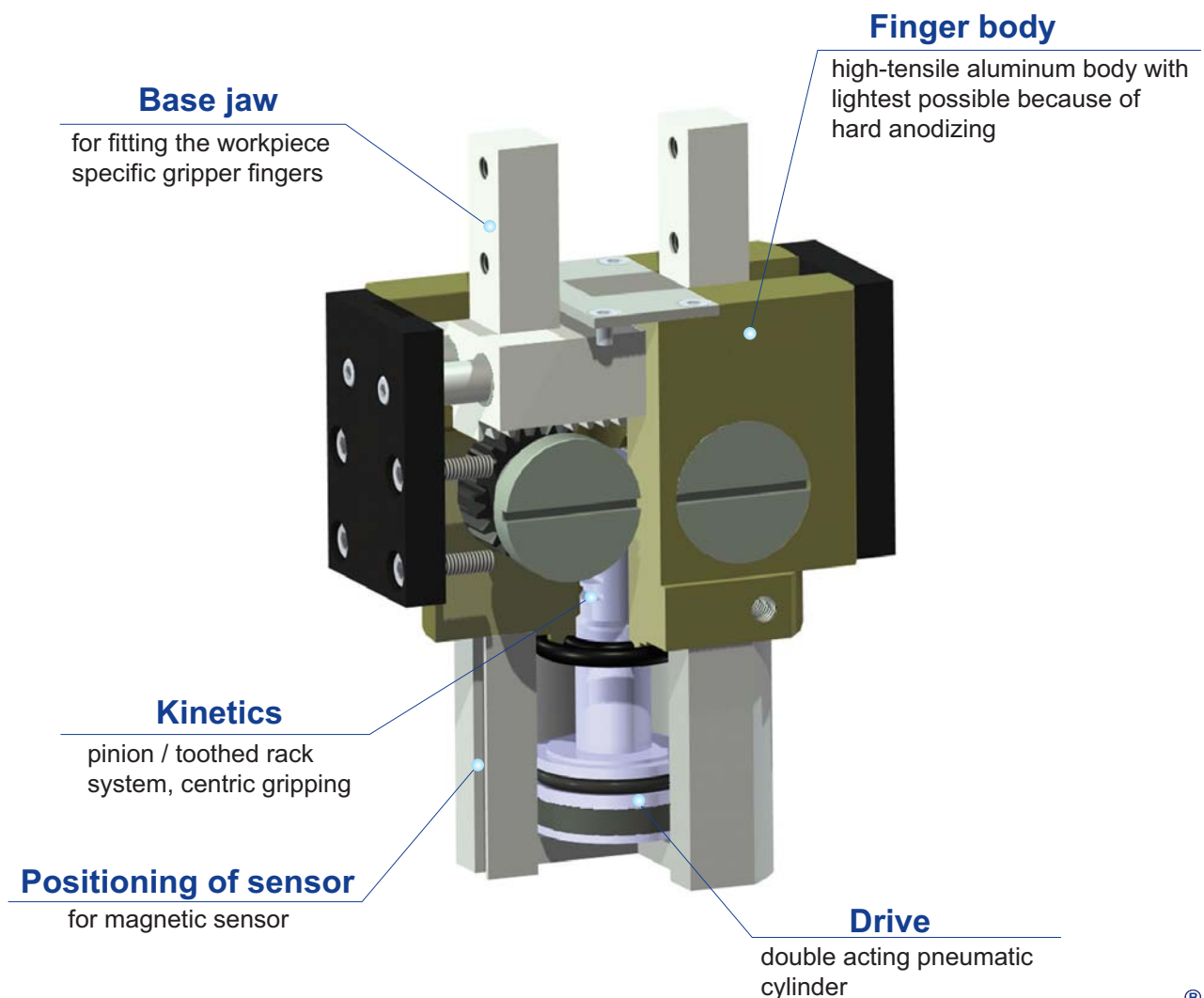
AF13-20,30,40,50,63,80,100

Character

- Rack & Pinion type (AF13-20 is Link & Lever type)
- High repeatability by sliding of guide rod
- Wide and various selection possible by various size
- Mounting possible from 3 sides
- Magnetic sensor is available for open-close sensing

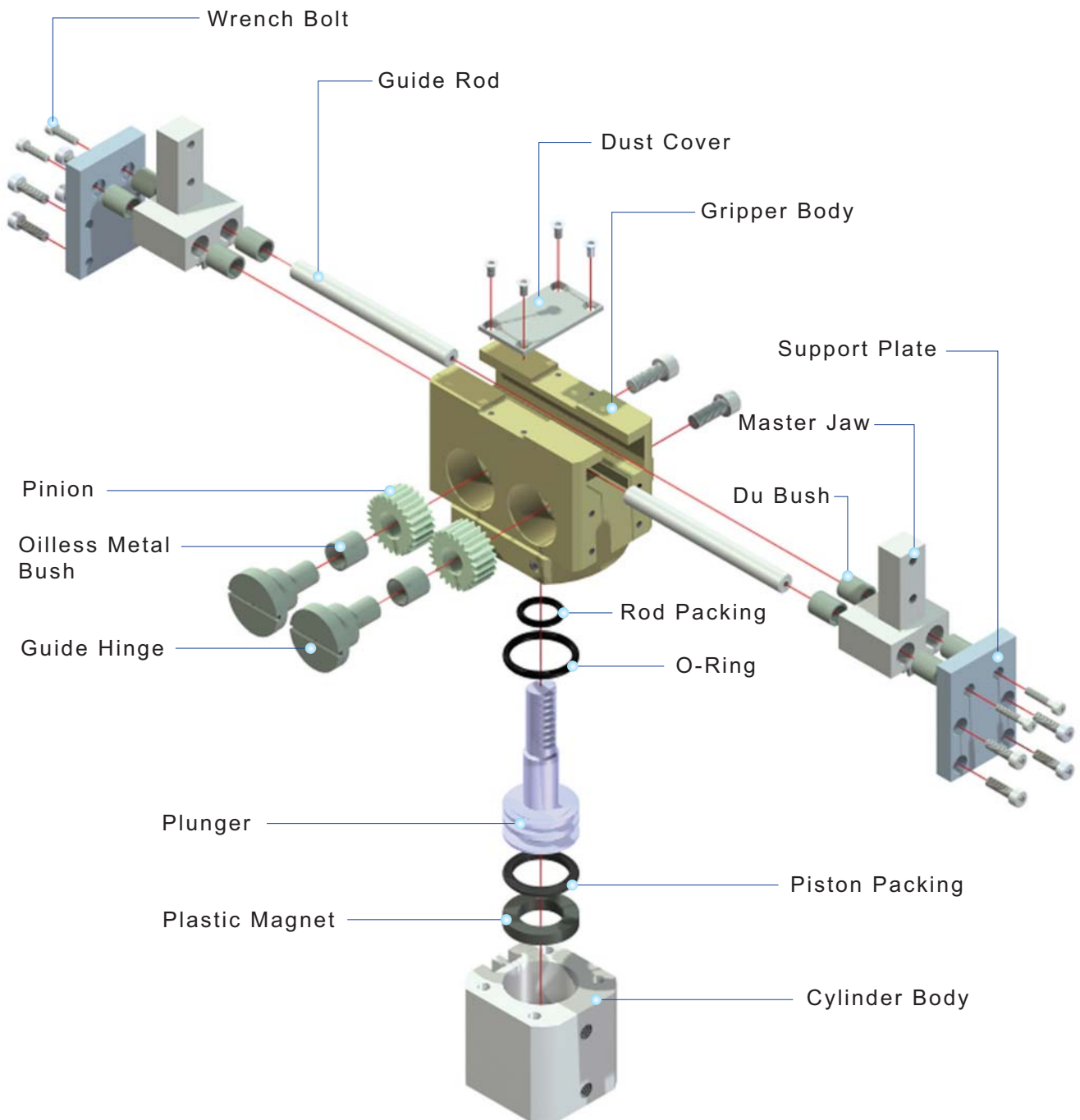


Rack & pinion type



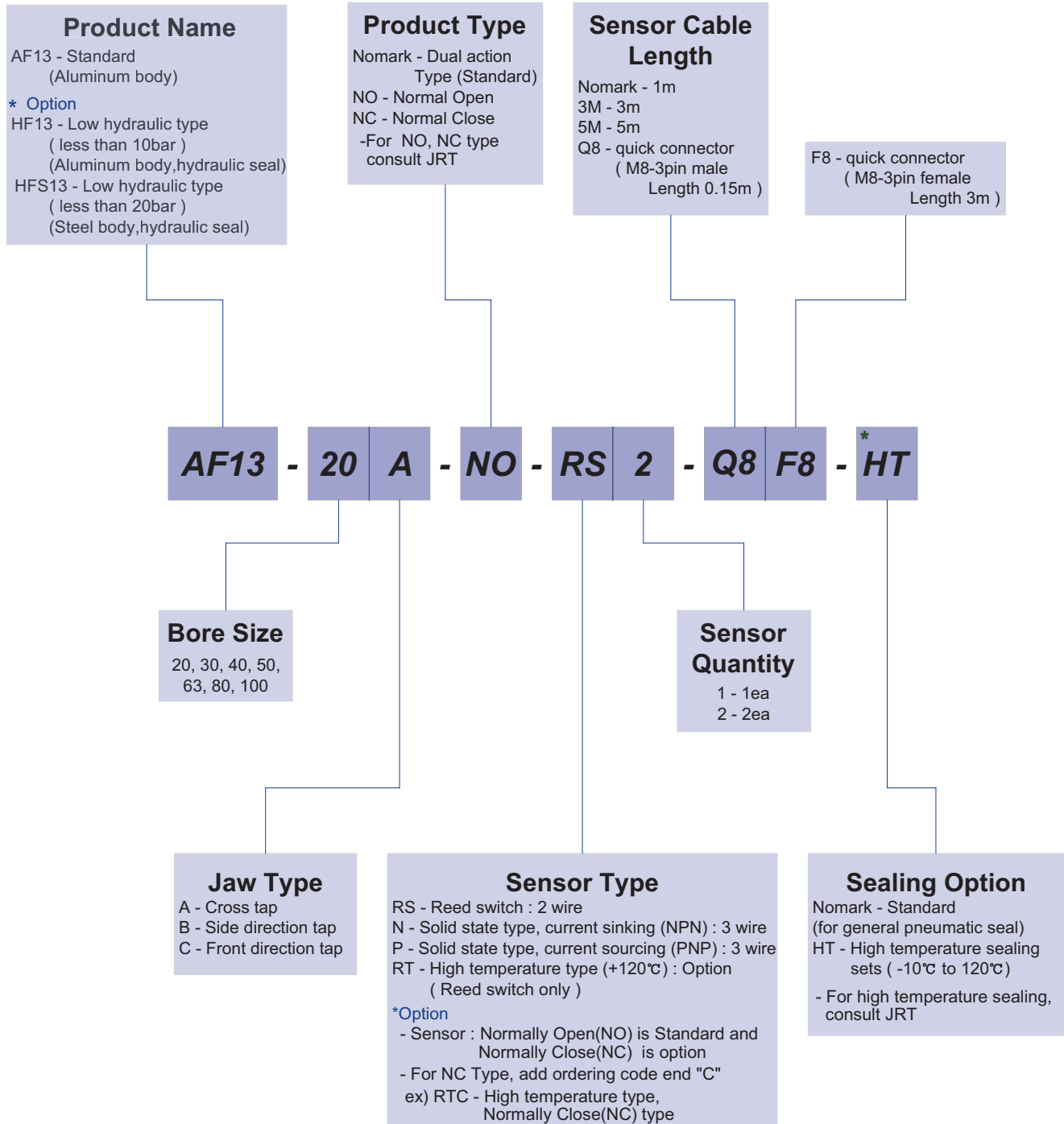
AF13

Exploded view



AF13

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF13

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF13-20	AF13-30	AF13-40	Unit
Stroke	30	30	30	mm
Weight	0.55	1.3	2.2	kg
Max. length of attach	70	90	110	mm
Fitting size	M5	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	24.53P/(1+0.025L)	55.92P/(1+0.02L)	98.10P/(1+0.02L)	N
Gripping force:Close	19.62P/(1+0.025L)	48.07P/(1+0.02L)	83.39P/(1+0.02L)	
Air consumption per cycle	3.3	15.1	33.9	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.02	sec
* Repeat accuracy	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	60	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

P=Air Pressure[bar] , L=Exertion length[mm]

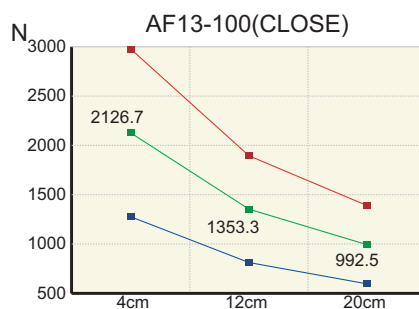
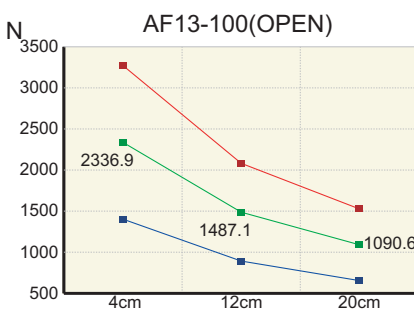
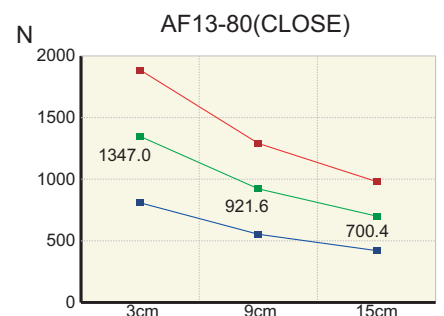
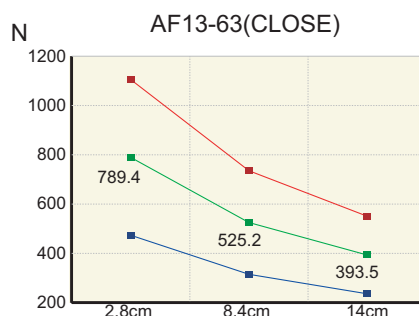
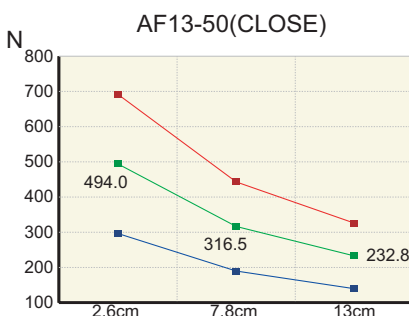
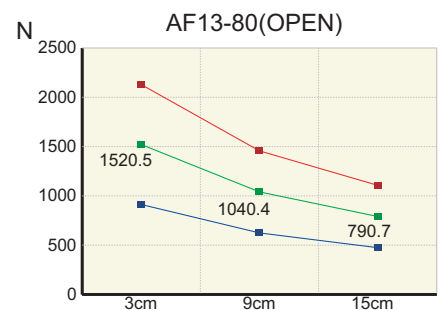
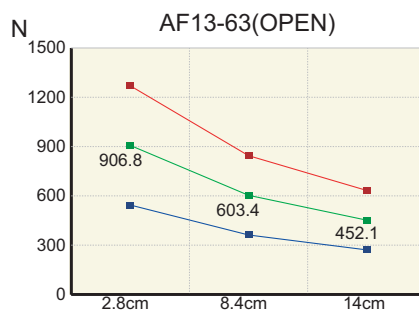
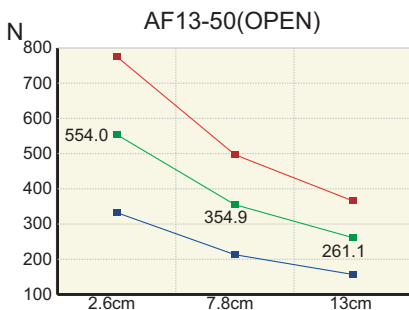
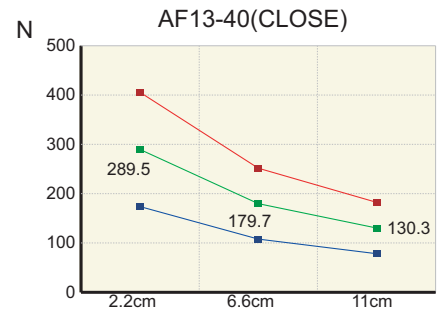
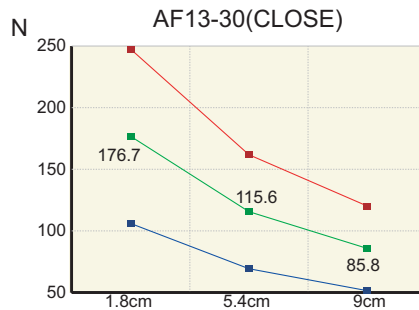
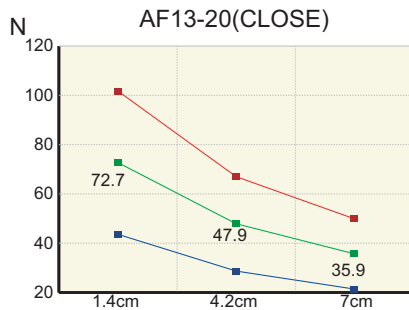
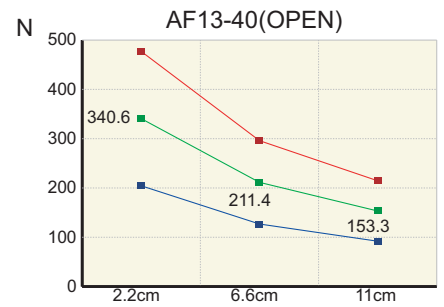
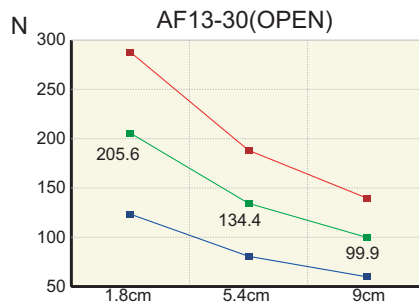
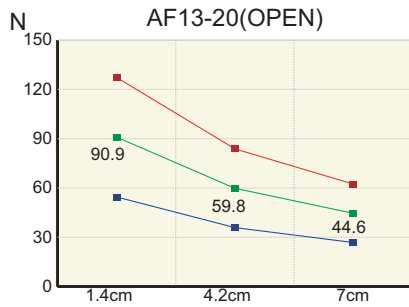
Products Name	AF13-50	AF13-63	AF13-80	AF13-100	Unit
Stroke	36	40	50	60	mm
Weight	3.35	5.03	8.29	12.7	kg
Max. length of attach	130	140	150	200	mm
Fitting size	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	154.02P/(1+0.015L)	242.31P/(1+0.012L)	395.34P/(1+0.01L)	654.33P/(1+0.01L)	N
Gripping force:Close	137.34P/(1+0.015L)	210.92P/(1+0.012L)	350.22P/(1+0.01L)	595.47P/(1+0.01L)	
Air consumption per cycle	65.0	114.9	235.9	450.0	cm ³
Closing / Opening time	0.03 / 0.04	0.05 / 0.06	0.11 / 0.12	0.22 / 0.23	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	40	30	30	20	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

AF13

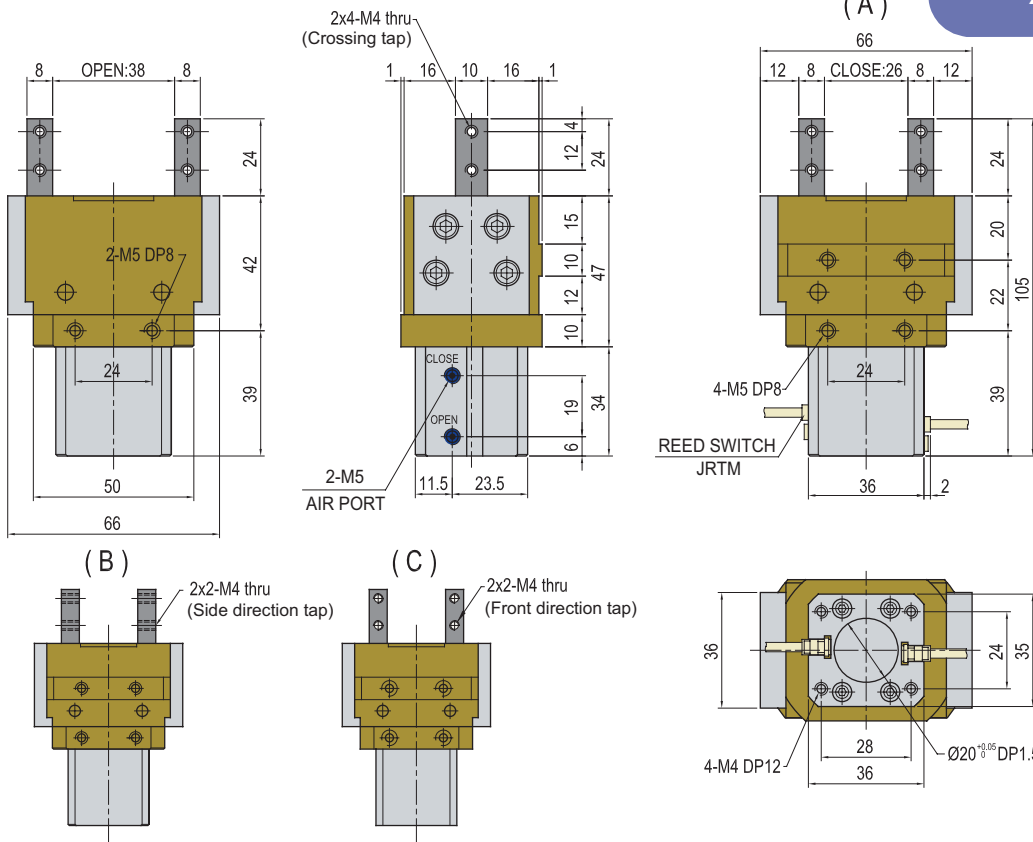
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

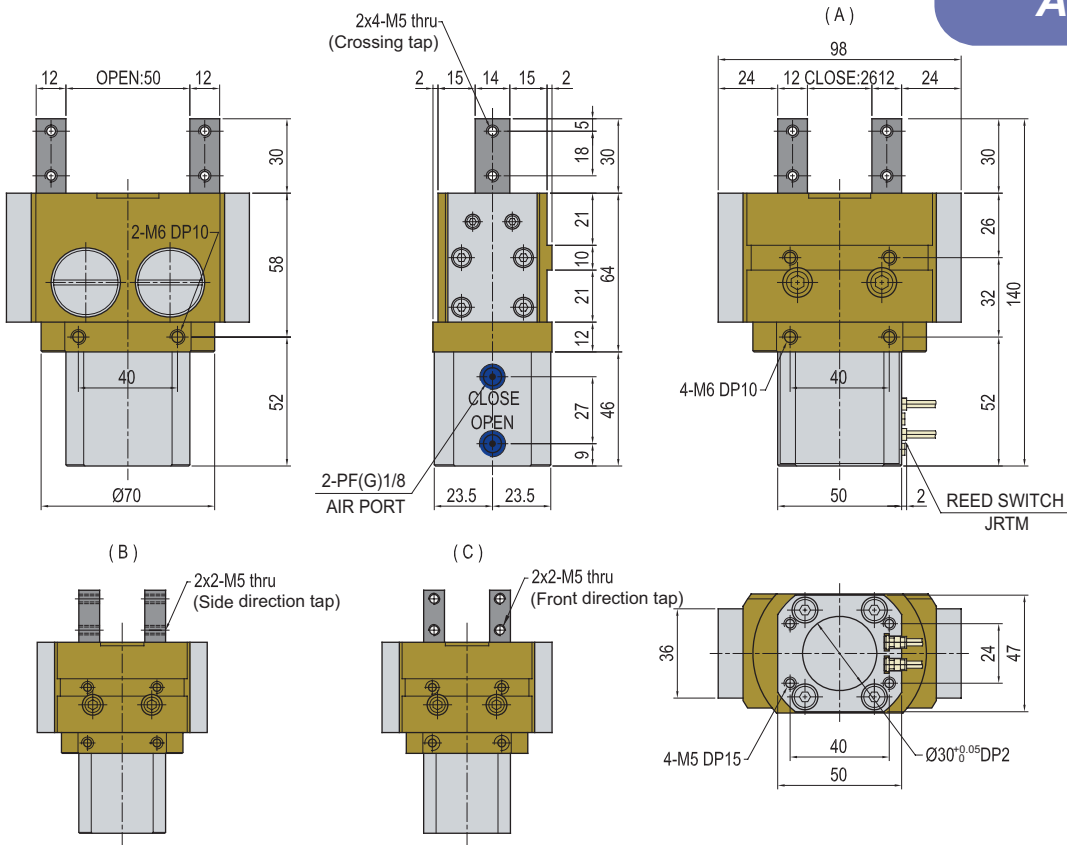


AF13

AF13-20

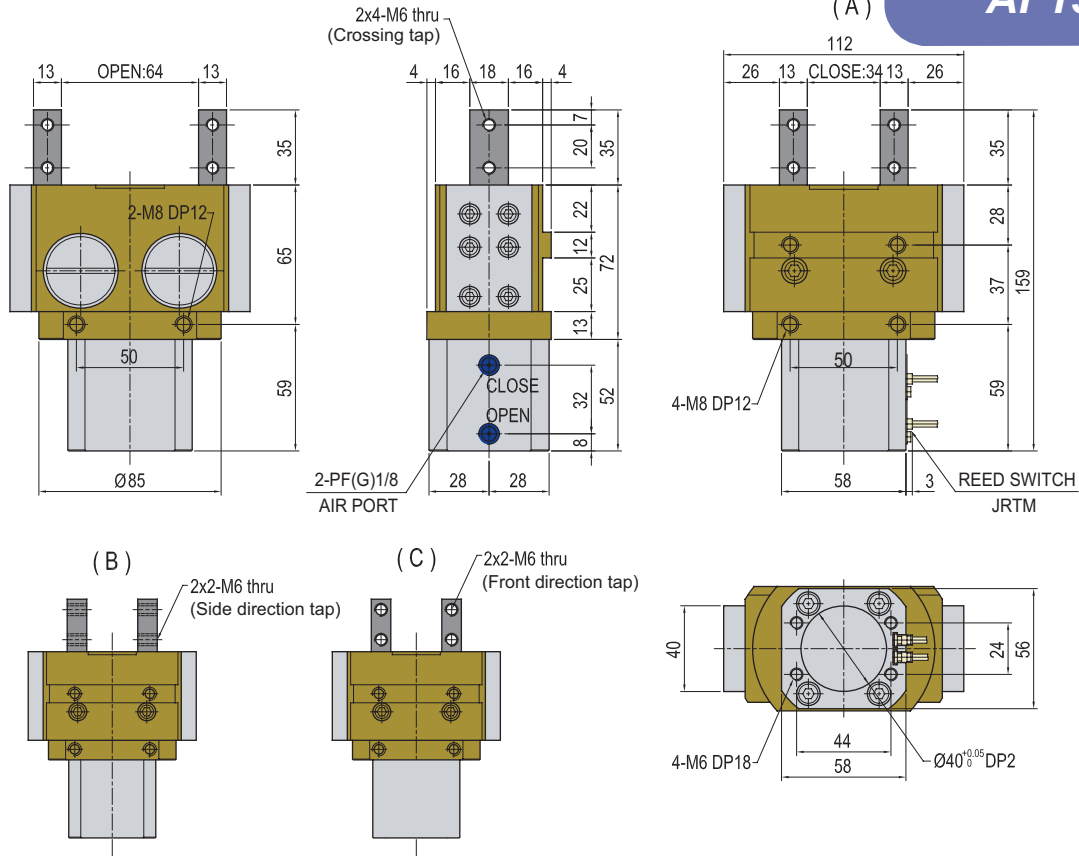


AF13-30

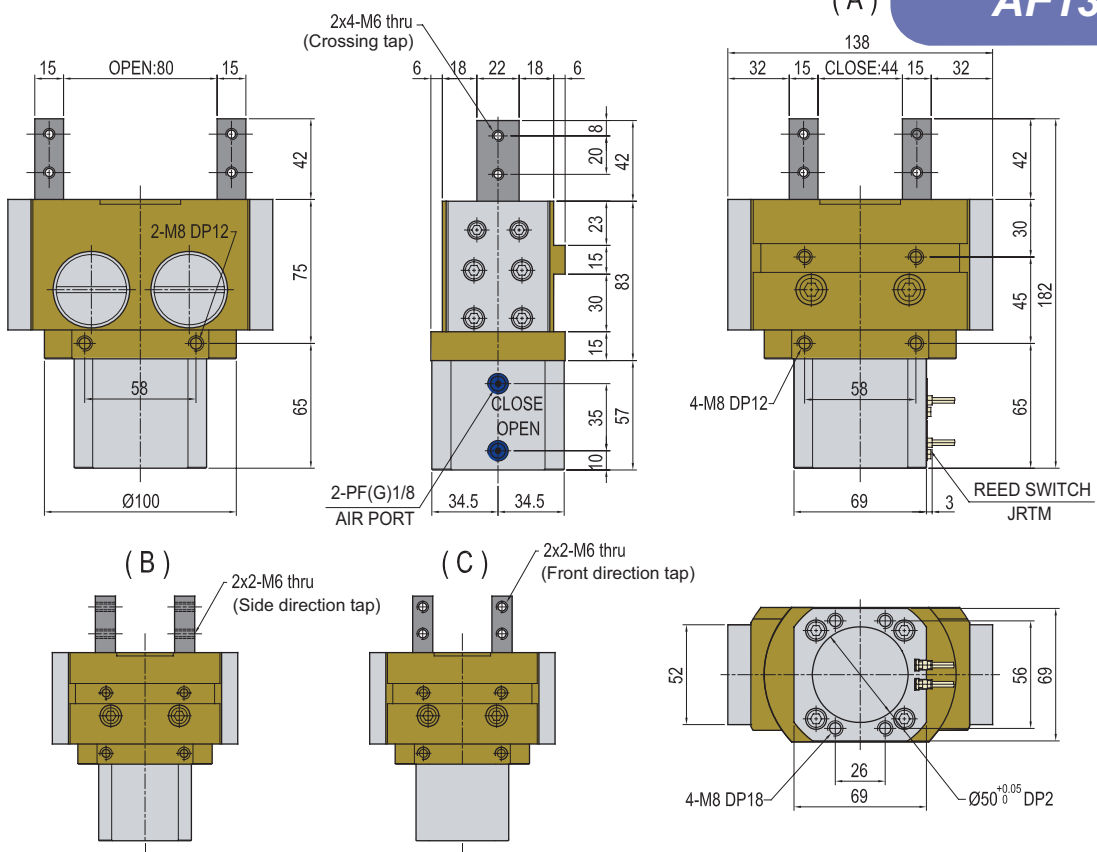


AF13

AF13-40

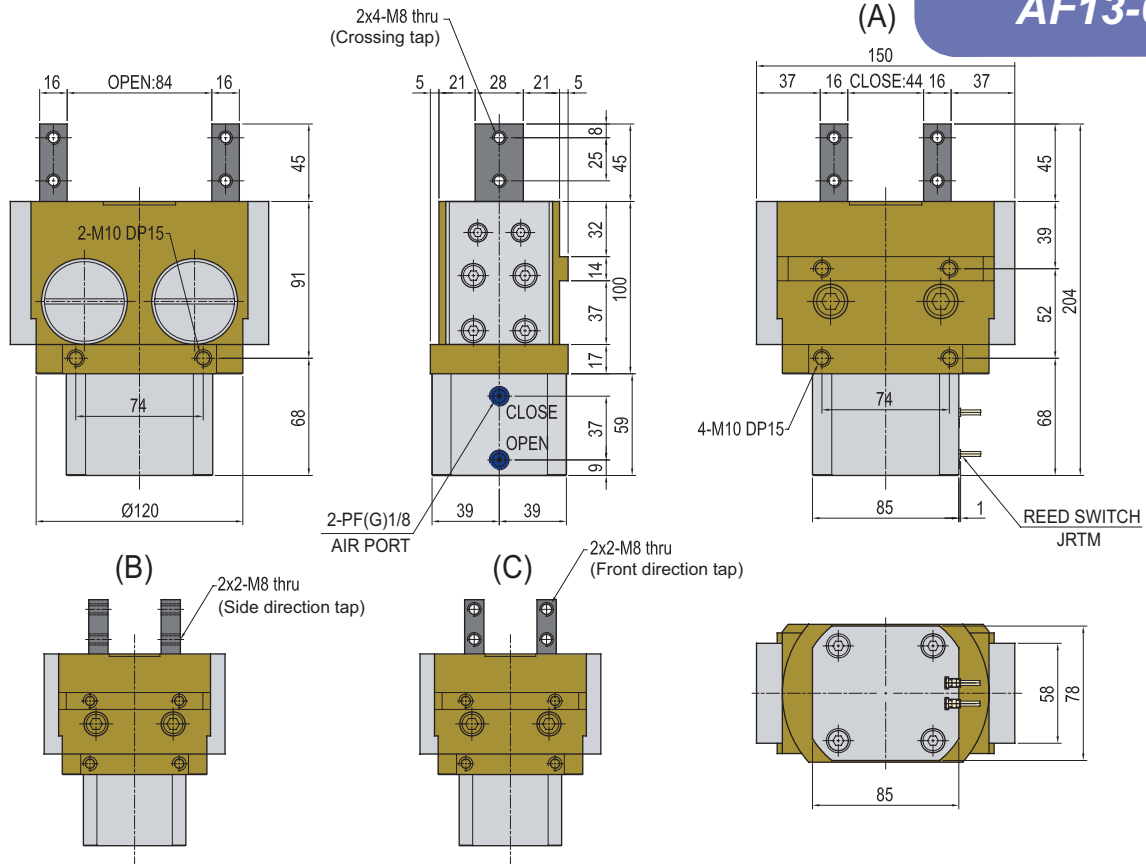


AF13-50

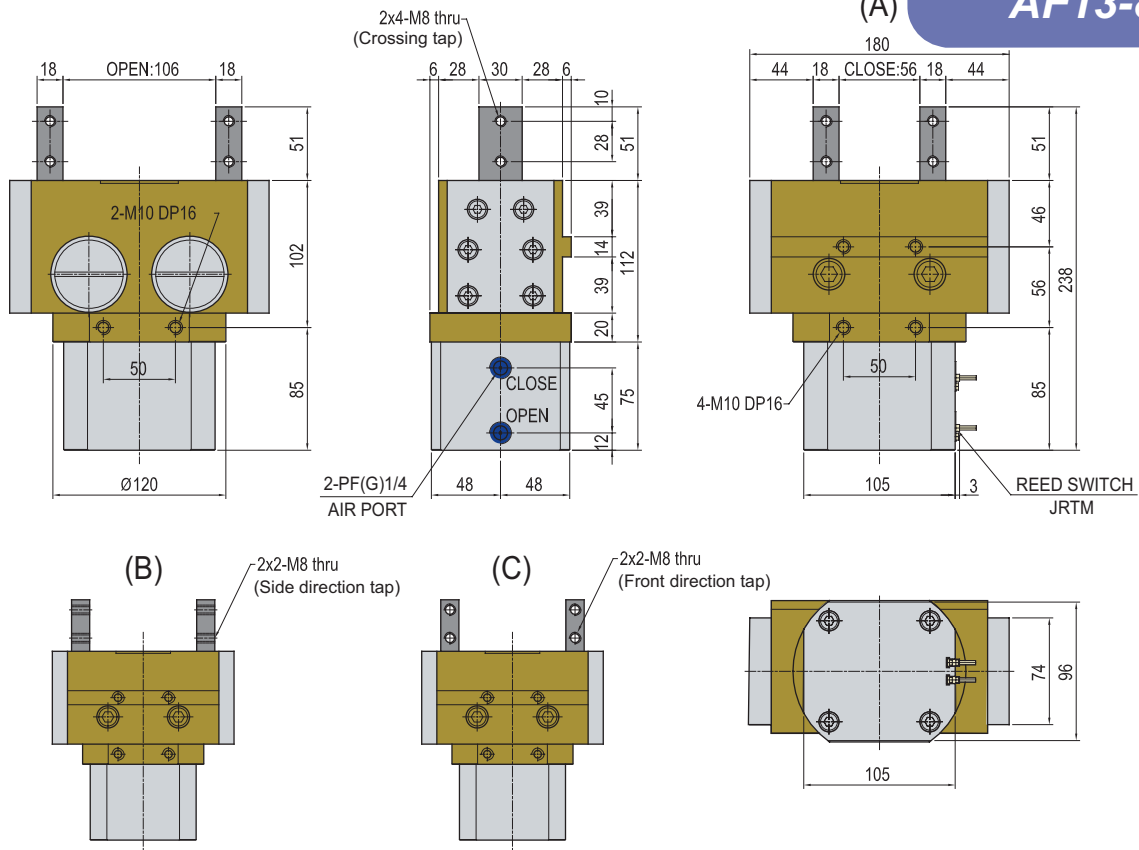


AF13

AF13-63

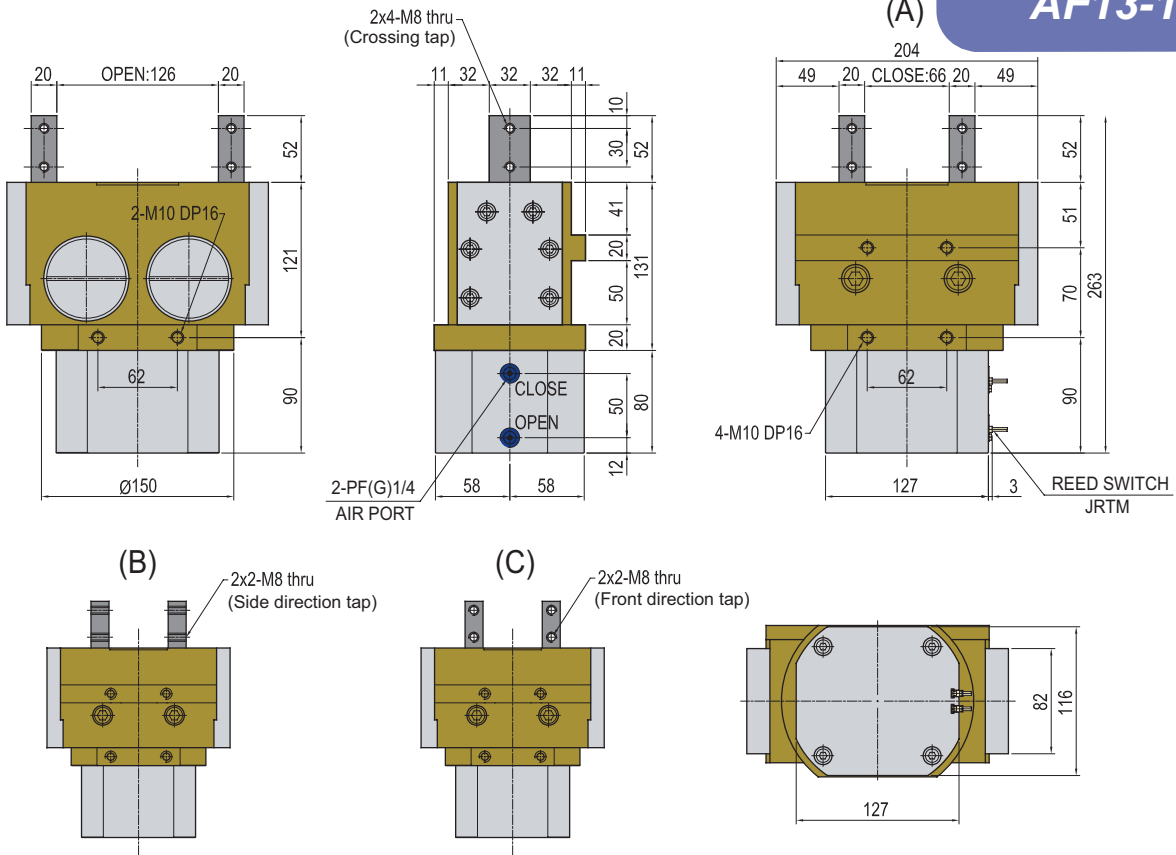


AF13-80



AF13

AF13-100



Note

Notes

A large grid of dashed lines for taking notes, consisting of 20 columns and 25 rows of squares. The grid is contained within a rounded rectangular border.

Gripper

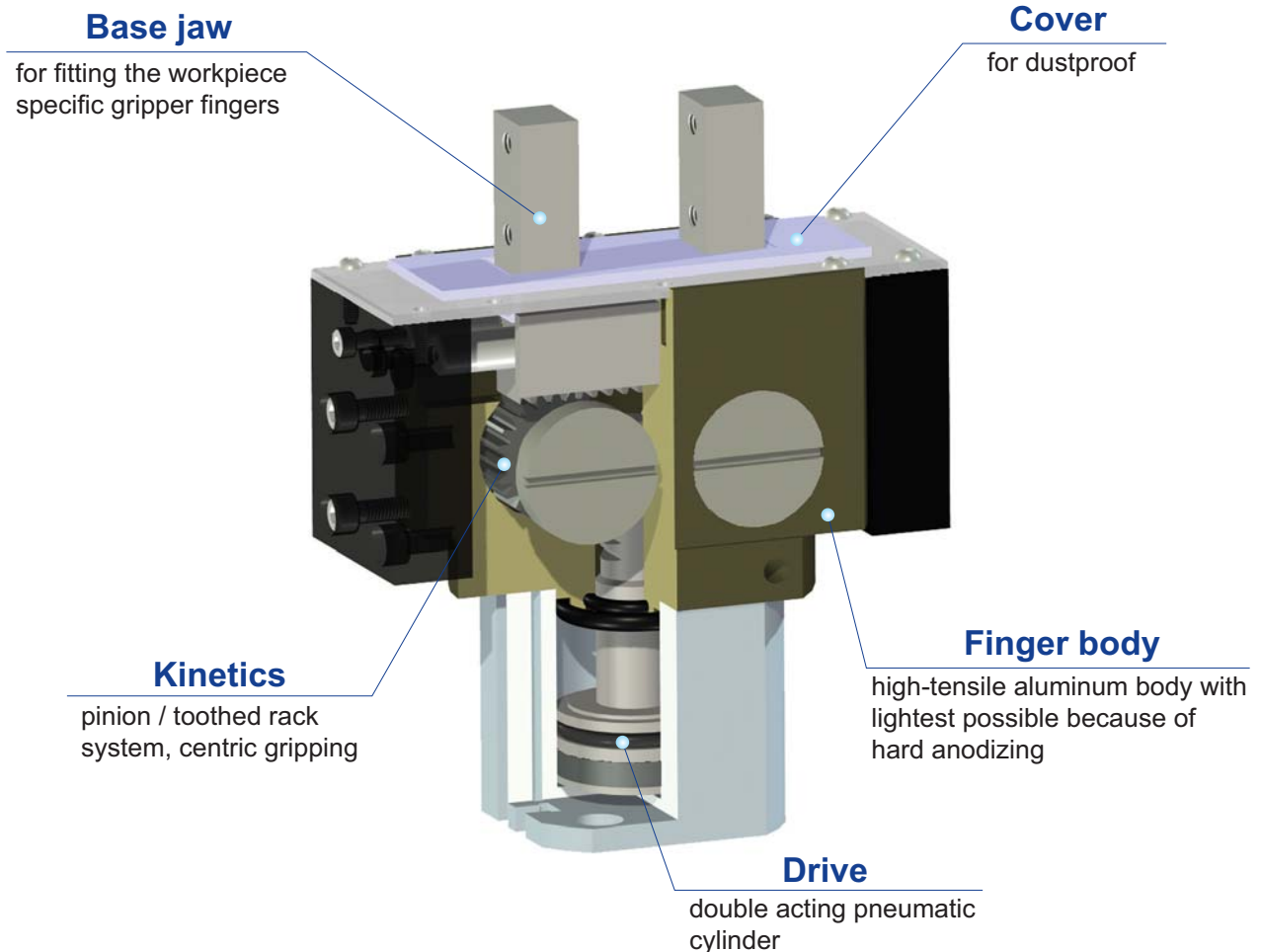
AF13C-20,30,40,50

Character

- Rack & Pinion type (AF13C-20 is Link & Lever type)
- High repeatability by guide rod sliding
- Wide and various selection possible by various size
- Mounting possible from 3 sides
- Magnetic sensor is available for open-close sensing
- AF13+ dustproof cover type

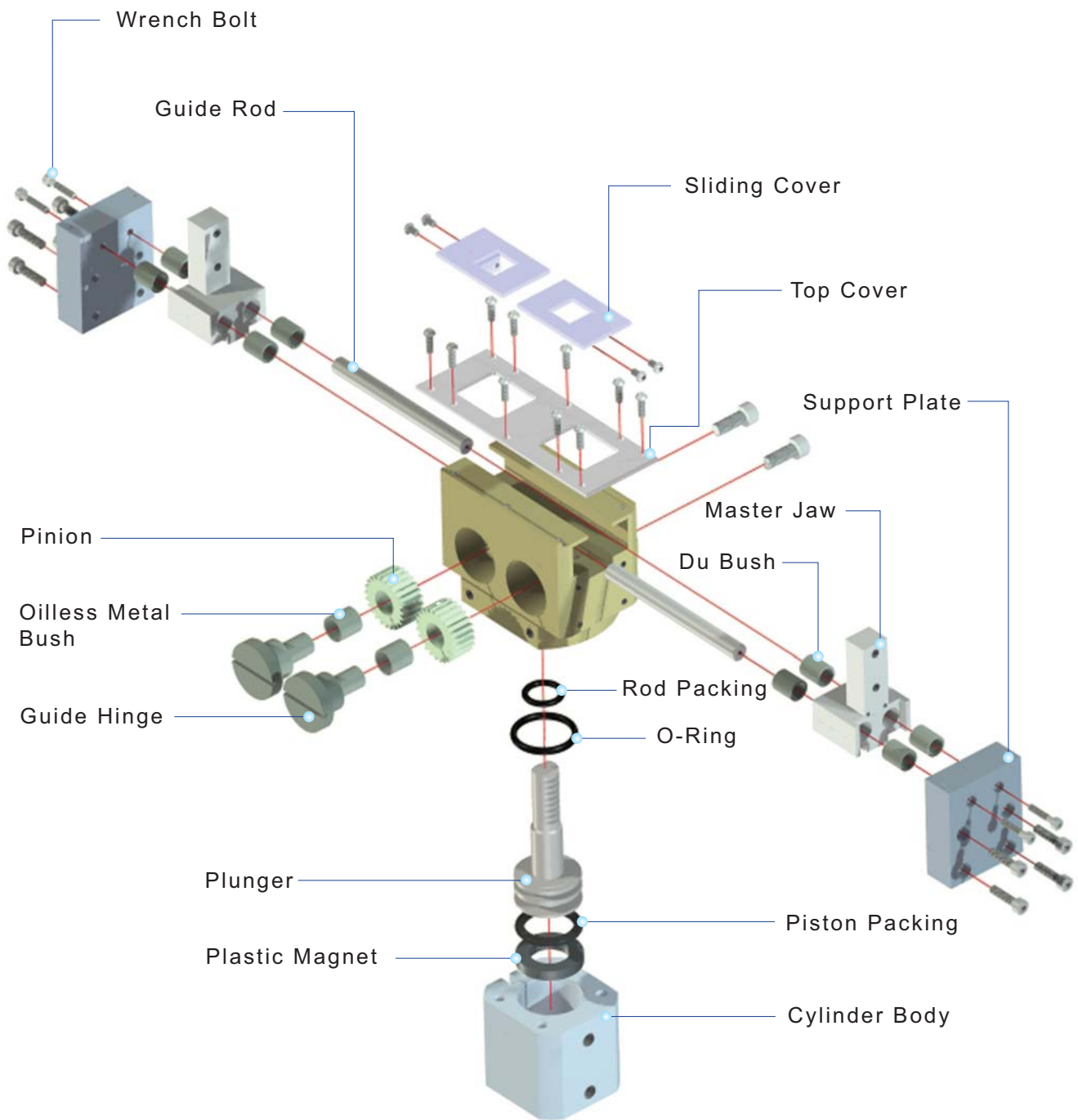


Rack & pinion type



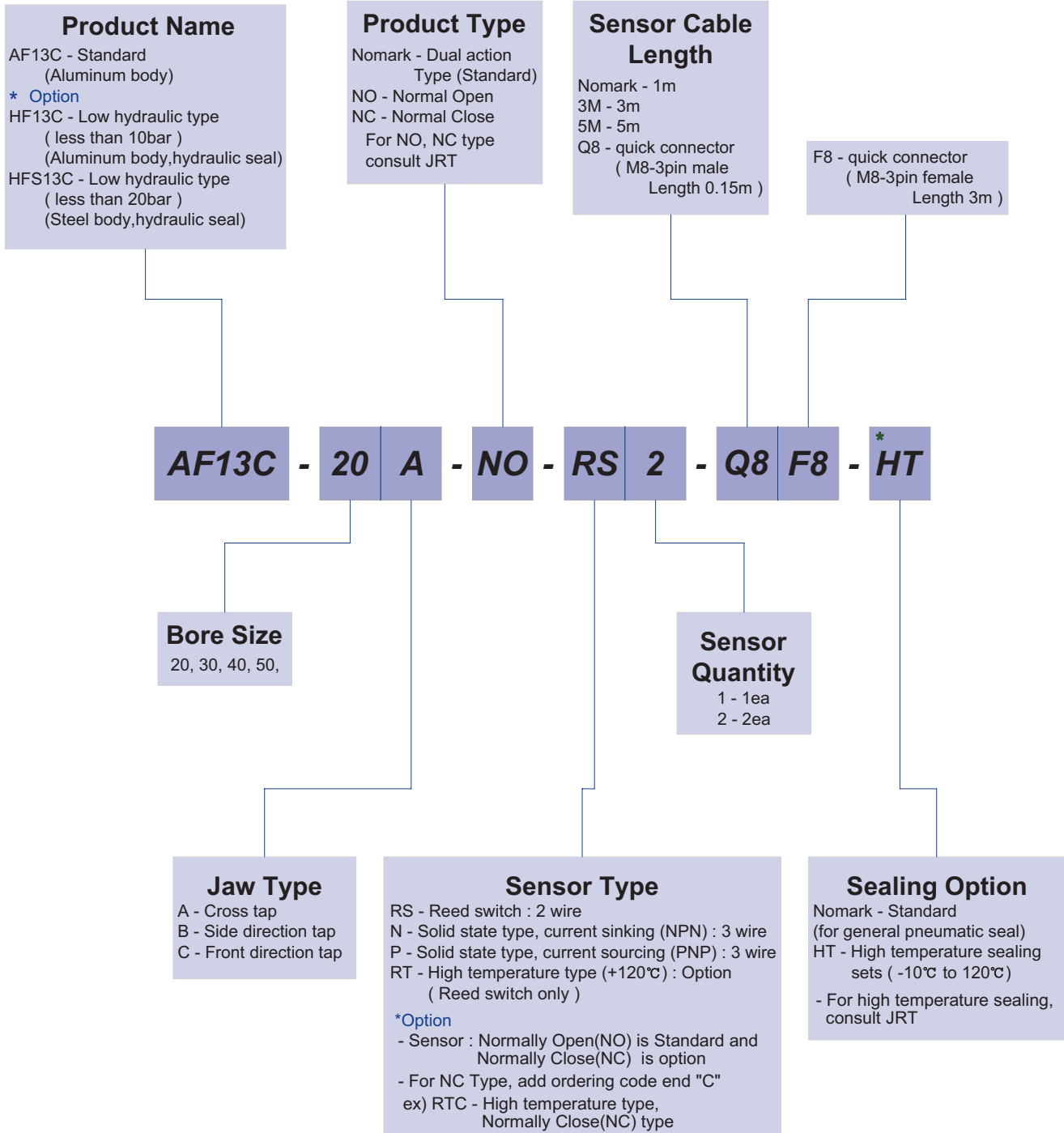
AF13C

Exploded view



AF13C

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF13C

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF13C-20	AF13C-30	AF13C-40	AF13C-50	Unit
Stroke	12	24	30	36	mm
Weight	0.55	1.44	2.2	3.7	kg
Max. length of attach	70	90	110	130	mm
Fitting size	M5	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	24.53P/(1+0.025L)	55.92P/(1+0.02L)	98.1P/(1+0.02L)	154.02P/(1+0.015L)	N
Gripping force:Close	19.62P/(1+0.025L)	48.07P/(1+0.02L)	83.39P/(1+0.02L)	137.34P/(1+0.015L)	N
Air consumption per cycle	3.3	15.1	33.9	65.0	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.02	0.03 / 0.04	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	60	40	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

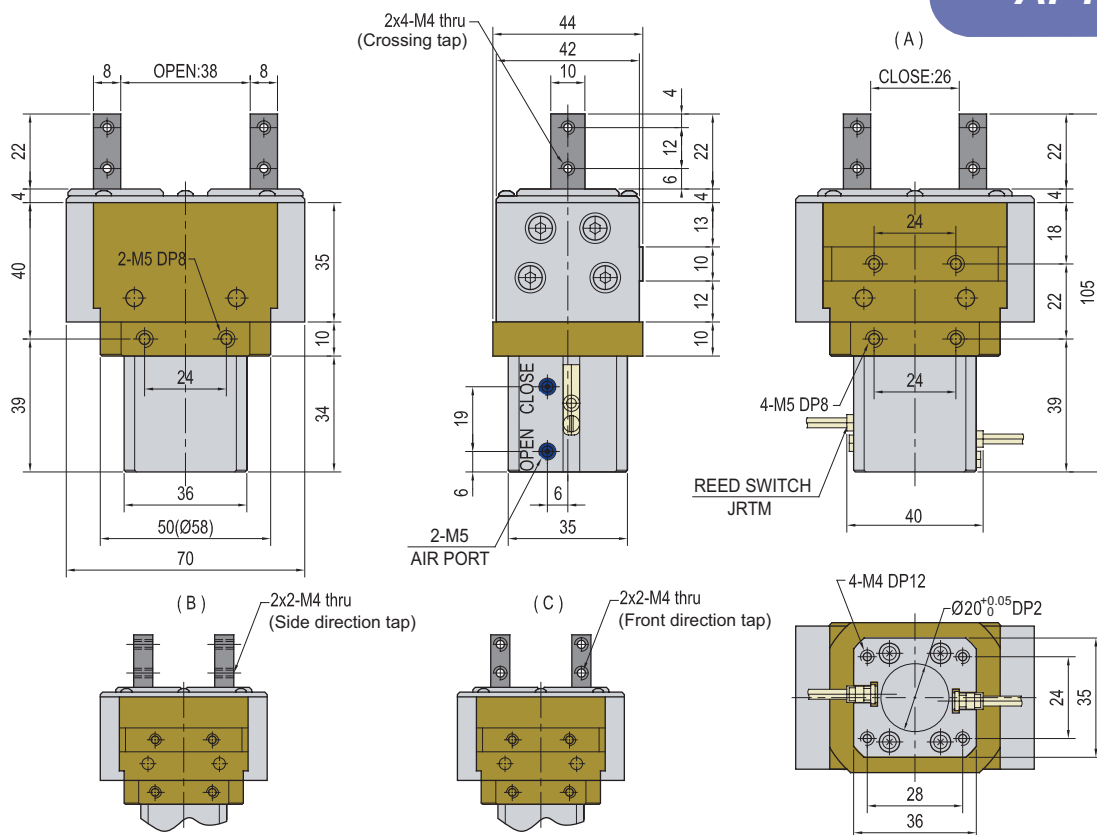
* After 100 consecutive strokes to end positions

※ See AF13 Gripping Force Graph

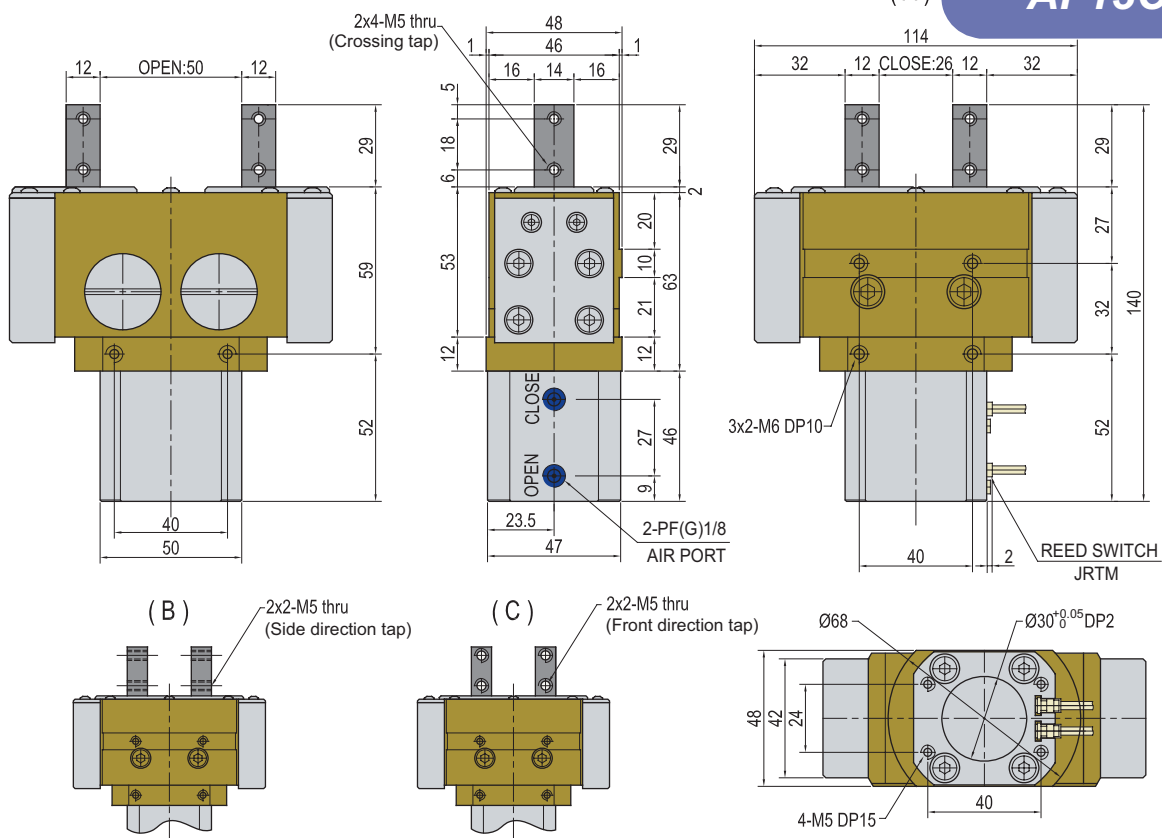
Note

AF13C

AF13C-20

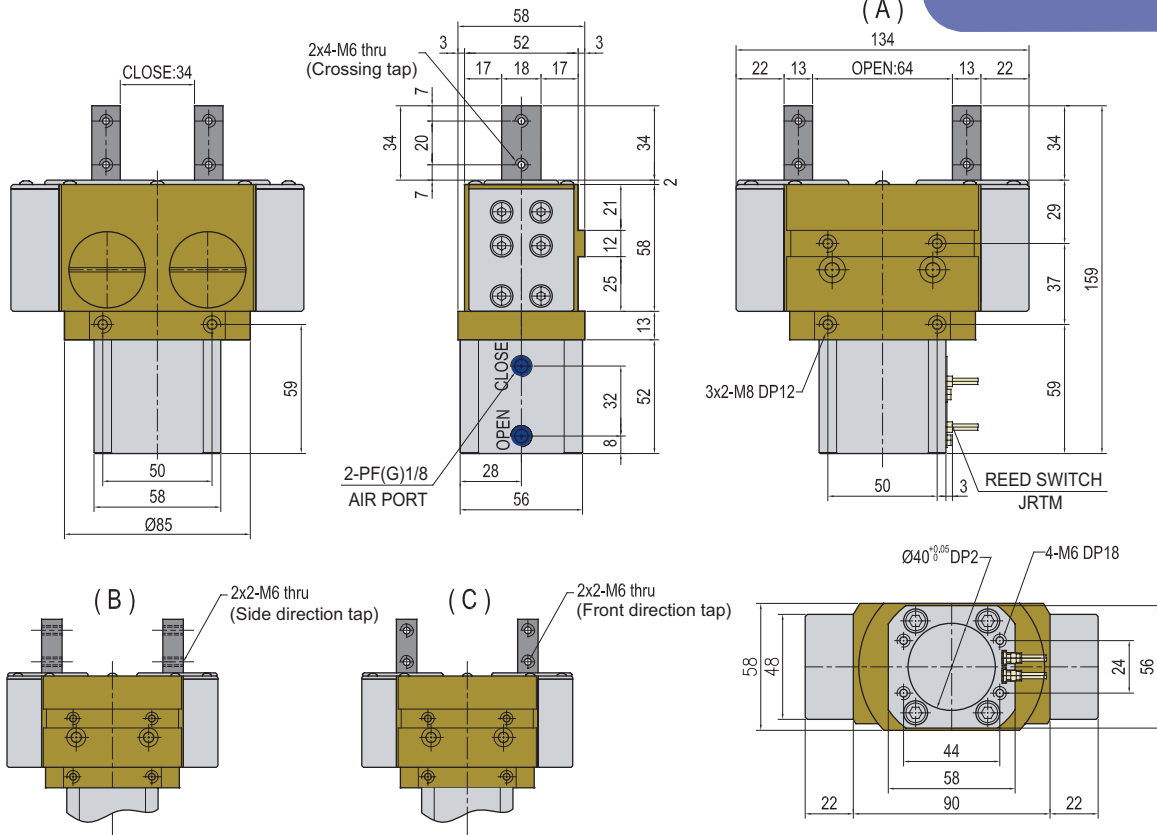


AF13C-30

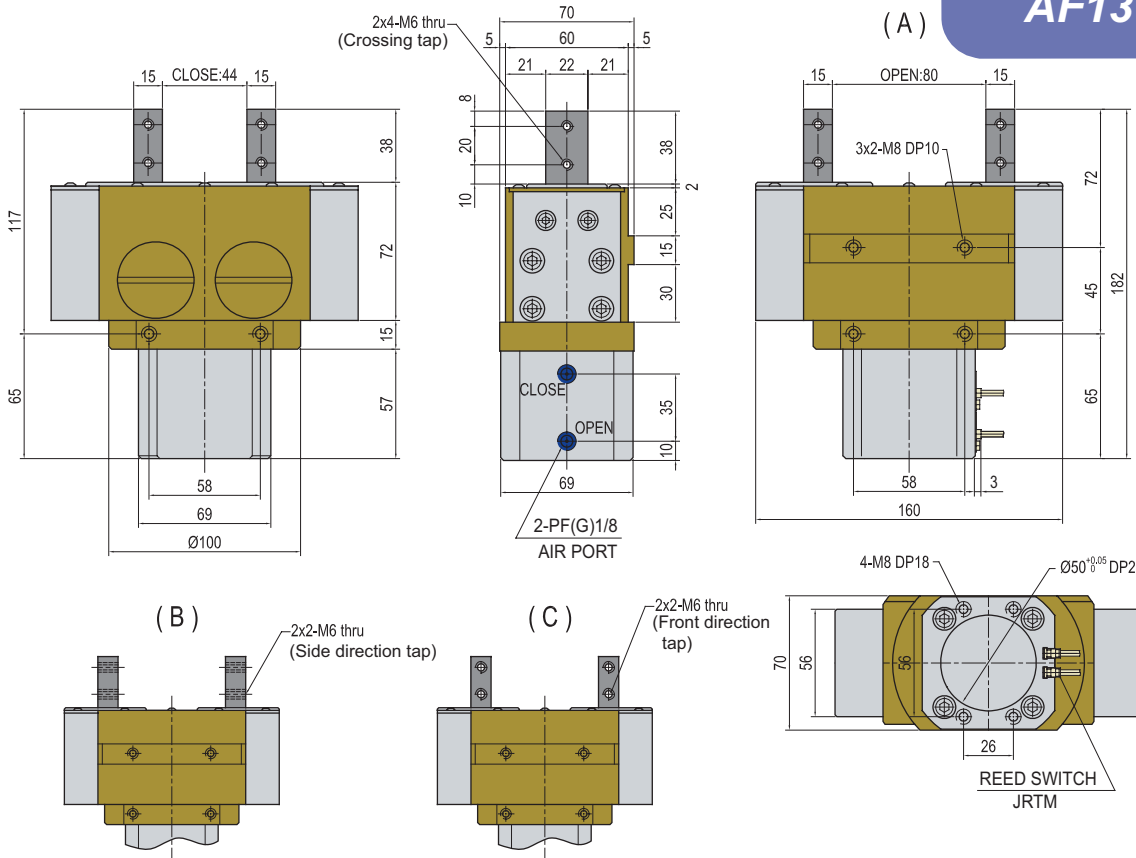


AF13C

AF13C-40



AF13C-50

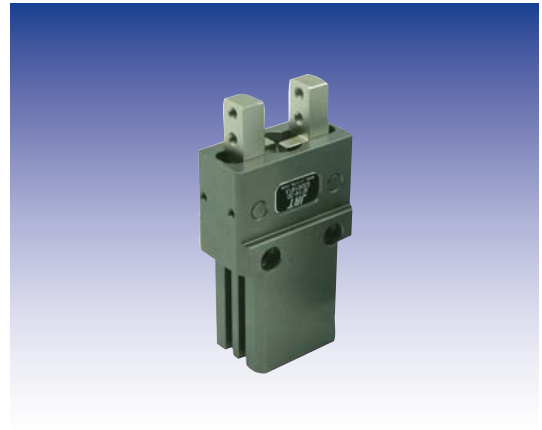


Gripper

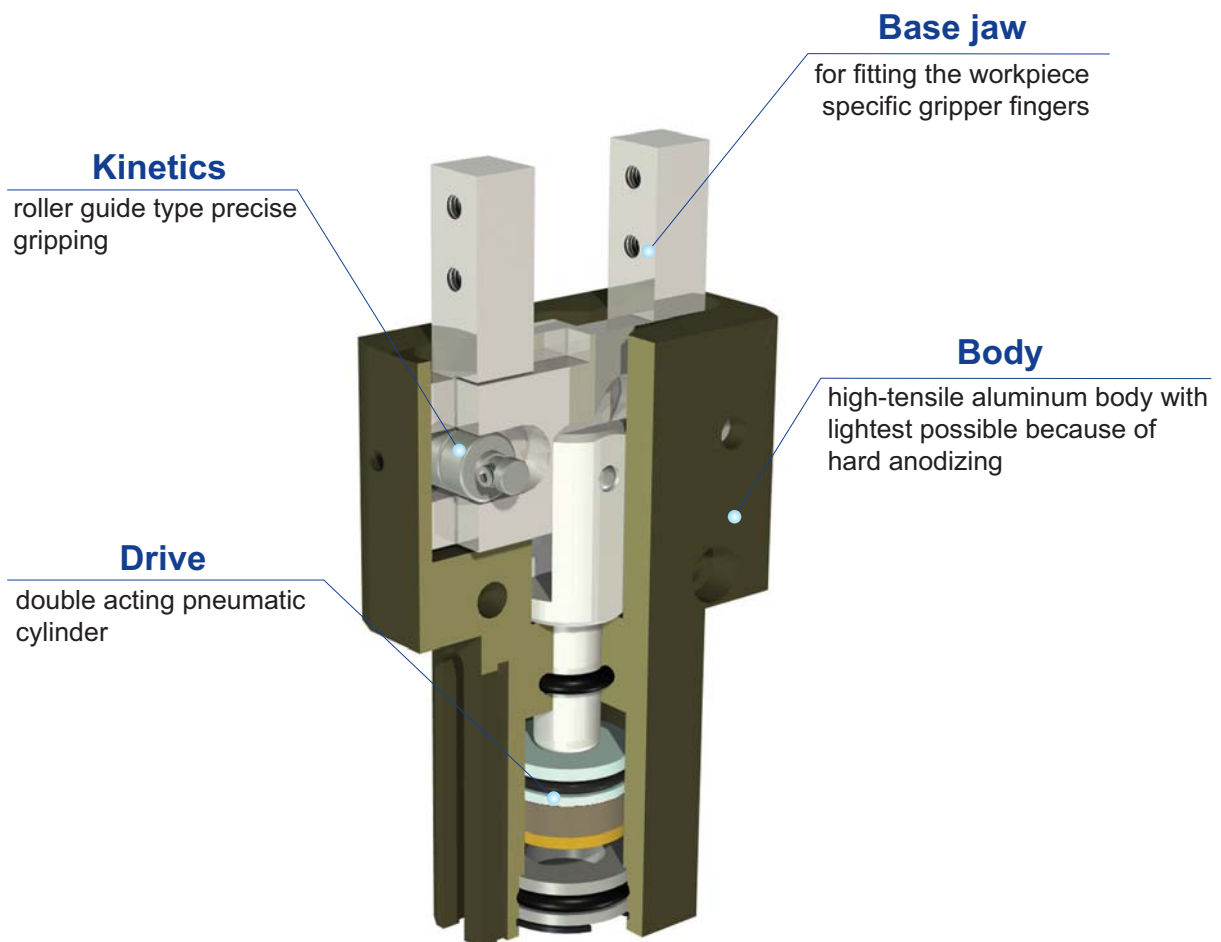
AF14-20,30

Character

- Roller way & Roller type
- High precision & strength structure
- Easy to mount many grippers(compact body)
- Magnetic sensor is available for open-close sensing

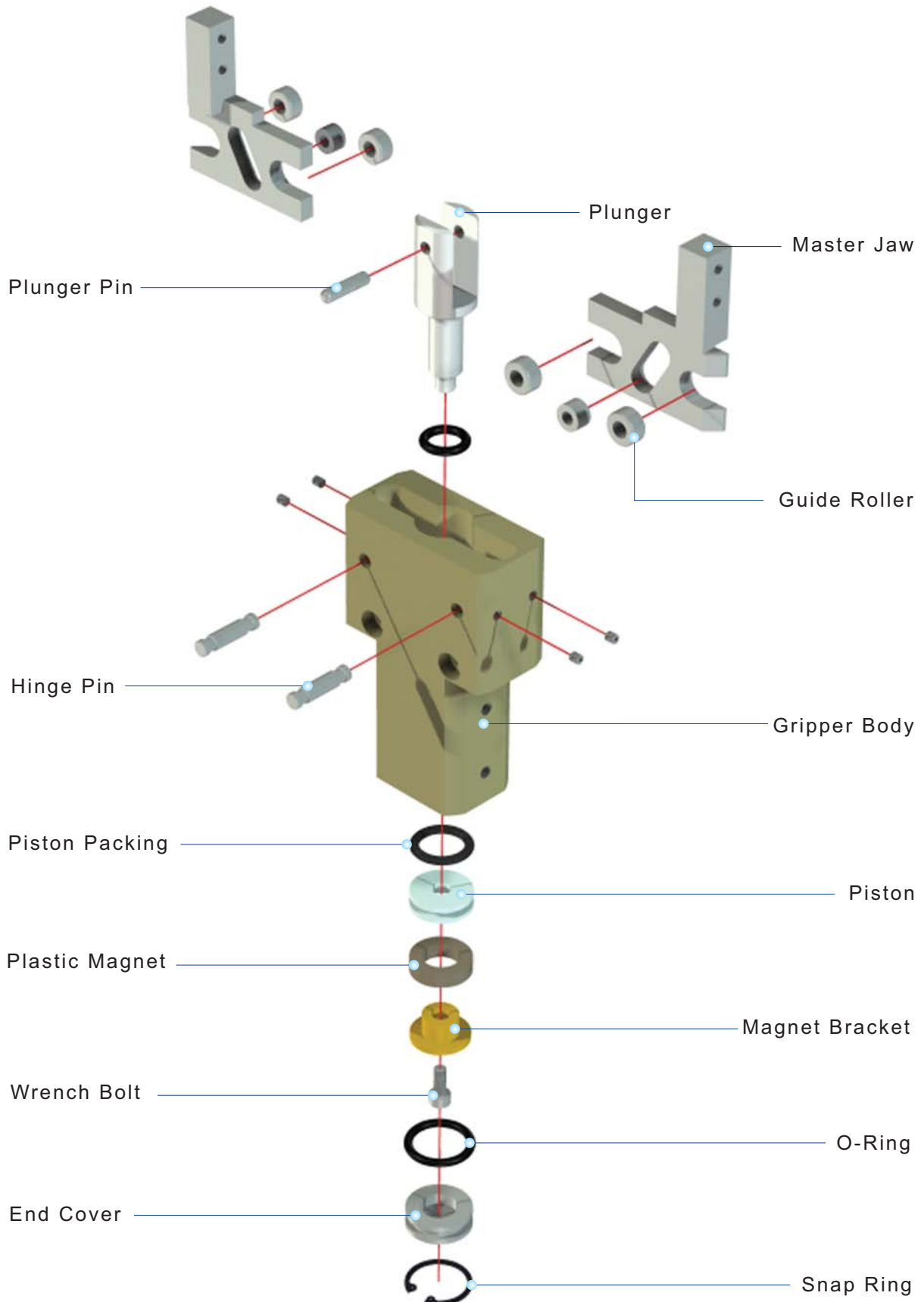


Roller & roller way type



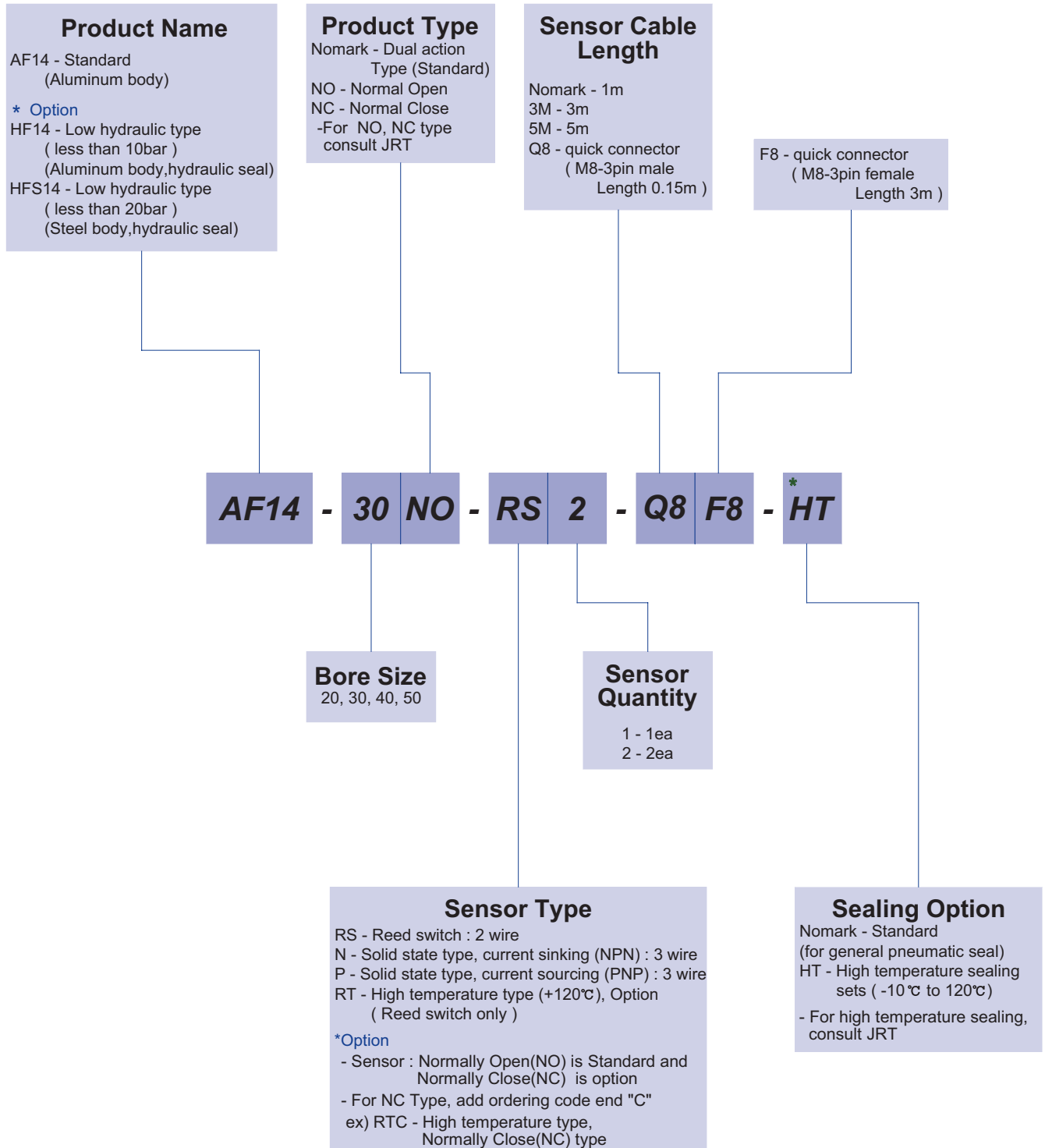
AF14

Exploded view



AF14

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF14

Specification

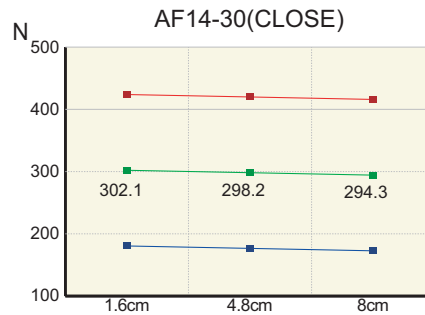
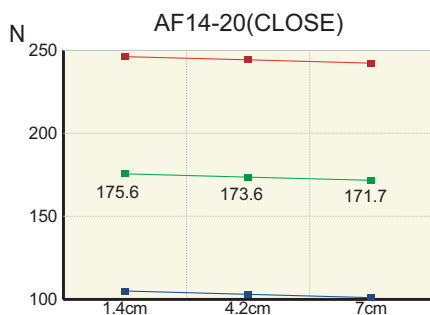
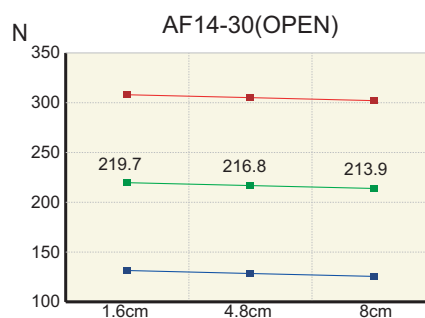
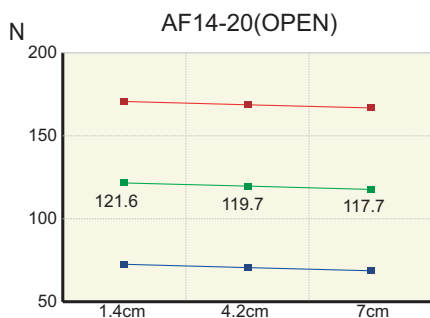
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF14-20	AF14-30	Unit
Stroke	10	12	mm
Weight	0.38	0.72	kg
Max. length of attach	70	80	mm
Fitting size	M5	PF(G) 1/8	
Gripping force:Open	24.53(P-0.003L)	44.15(P-0.002L)	N
Gripping force:Close	35.32(P-0.002L)	60.82(P-0.002L)	
Air consumption per cycle	5.5	14.6	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.01	0.01	mm
Max.cycle per minute	60	40	
Operating pressure	3~7		bar
Ambient temperature	-5 to 60		°C
Lubrication	Needless		

* After 100 consecutive strokes to end positions

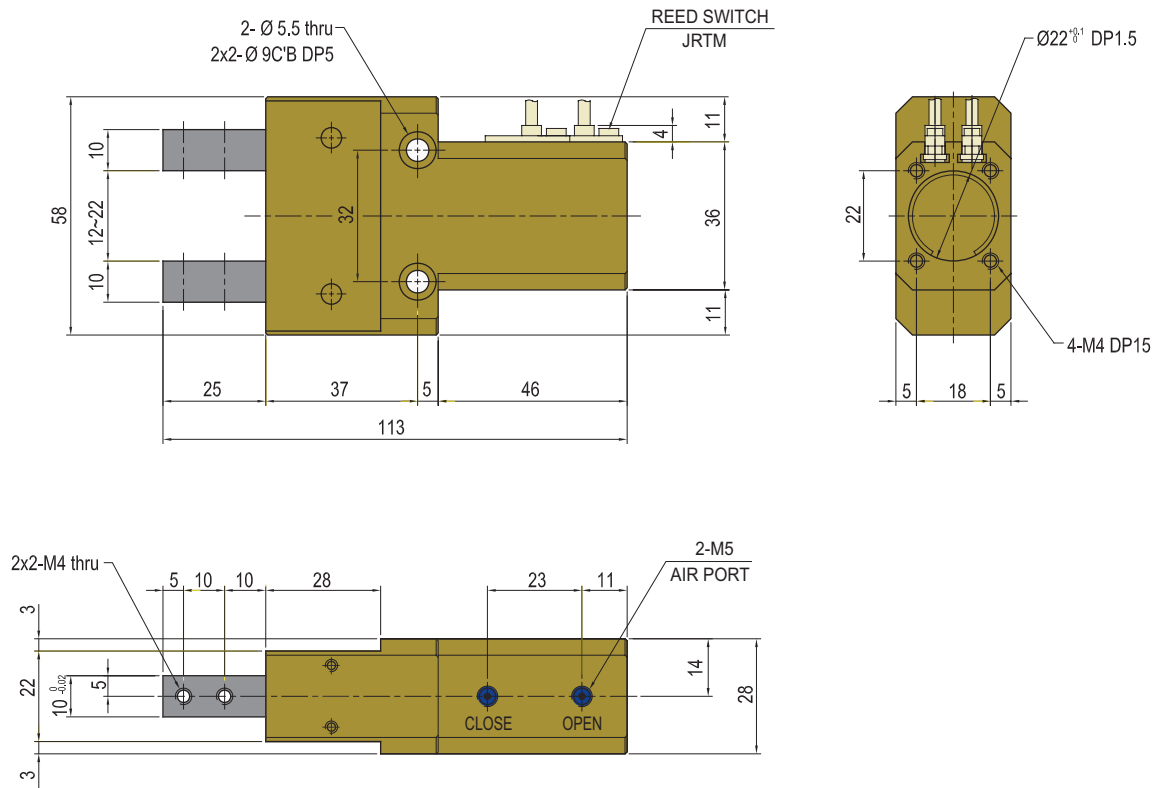
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

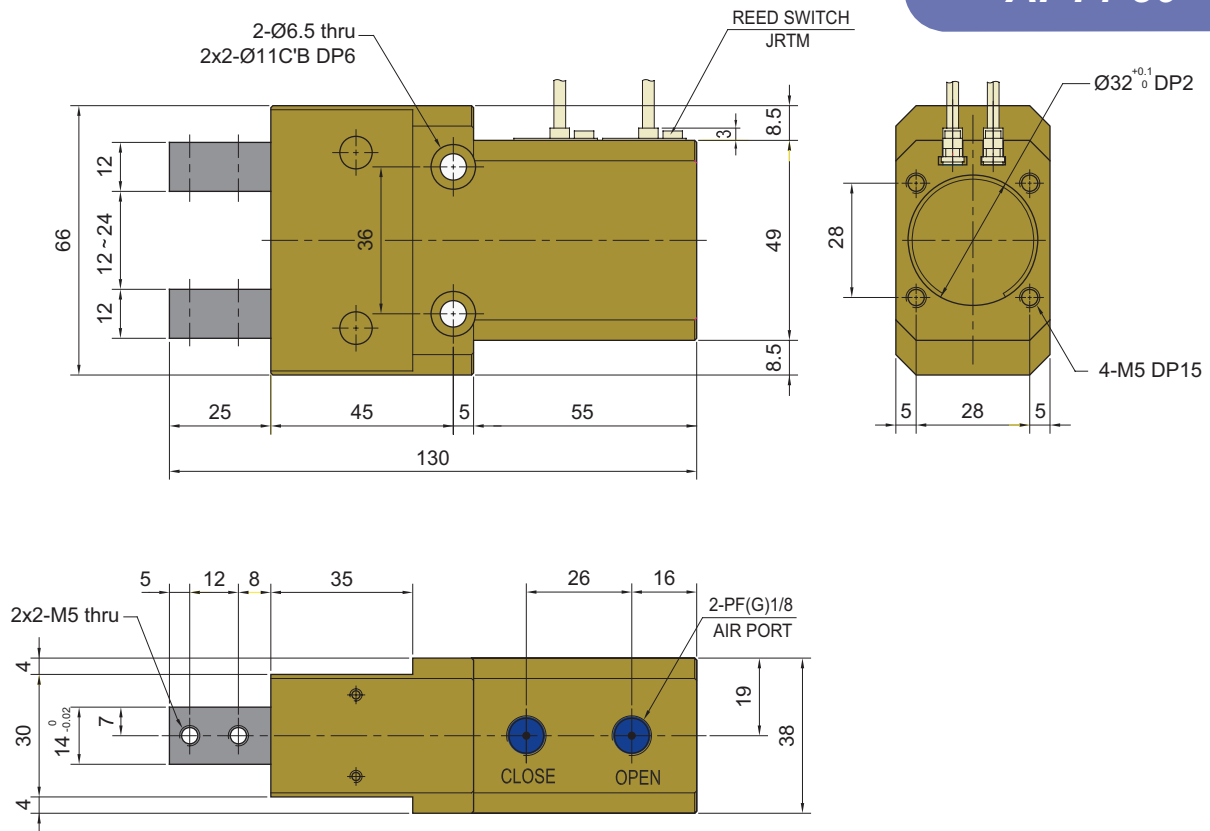


AF14

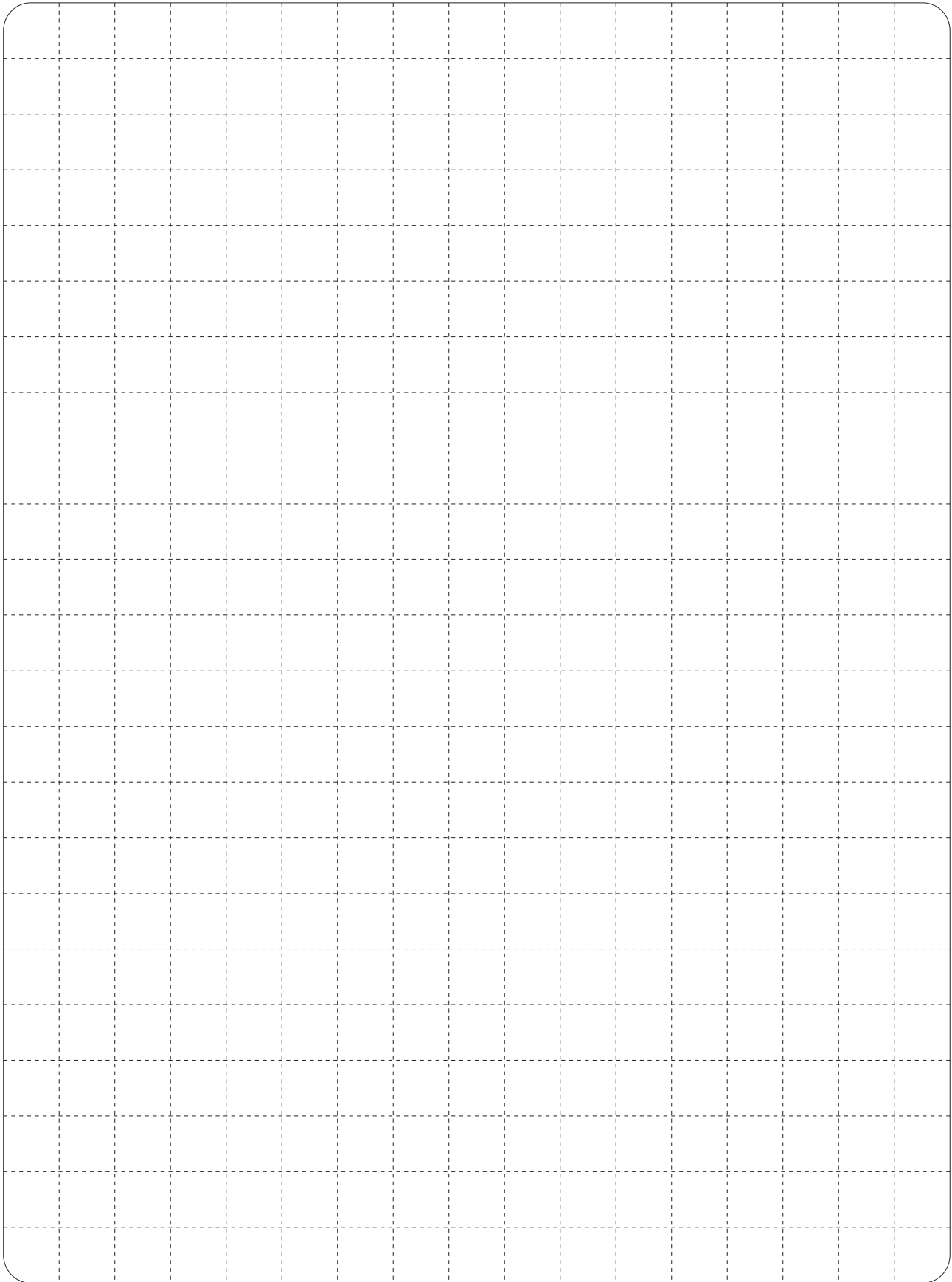
AF14-20



AF14-30



Notes

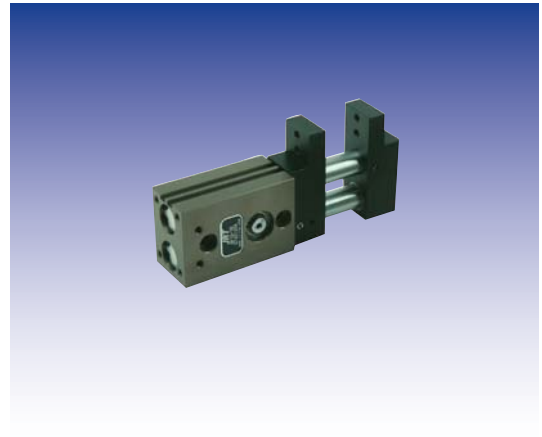
A large grid of dashed lines for writing notes, with rounded corners. The grid consists of 18 columns and 28 rows of small squares, providing a structured space for handwritten notes.

Gripper

AF15-12,16,20

Character

- Rack & pinion type
- Jaw is located on one side of gripper body
- Suitable for gripping system of moving the rotation
- Magnetic sensor is available for open-close sensing



Rack & pinion type

Positioning of sensor

for magnetic sensor

Kinetics

pinion / toothed rack system, centric gripping

Drive

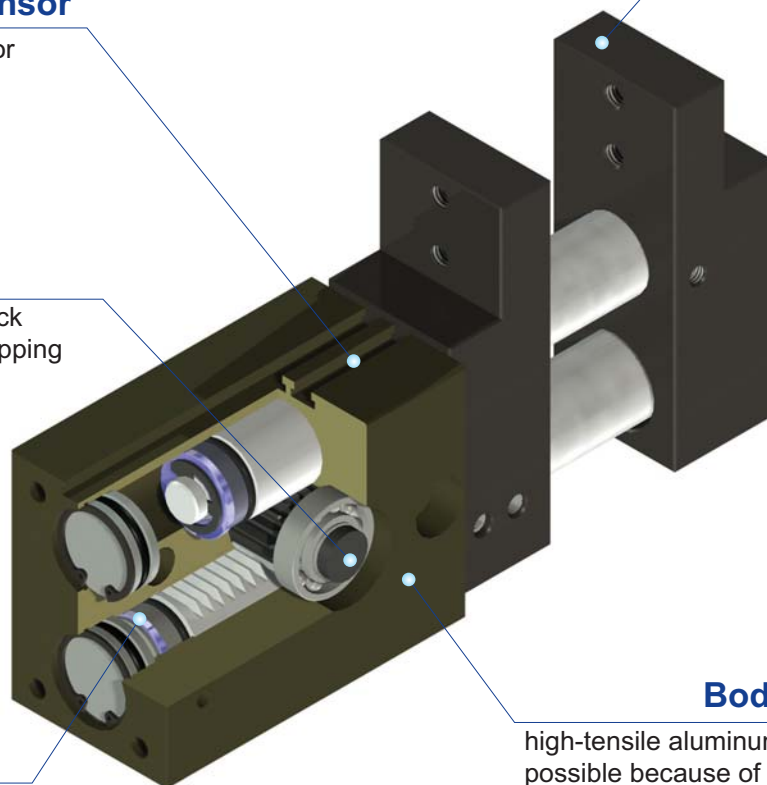
double acting pneumatic cylinder

Base jaw

for fitting the workpiece specific gripper fingers

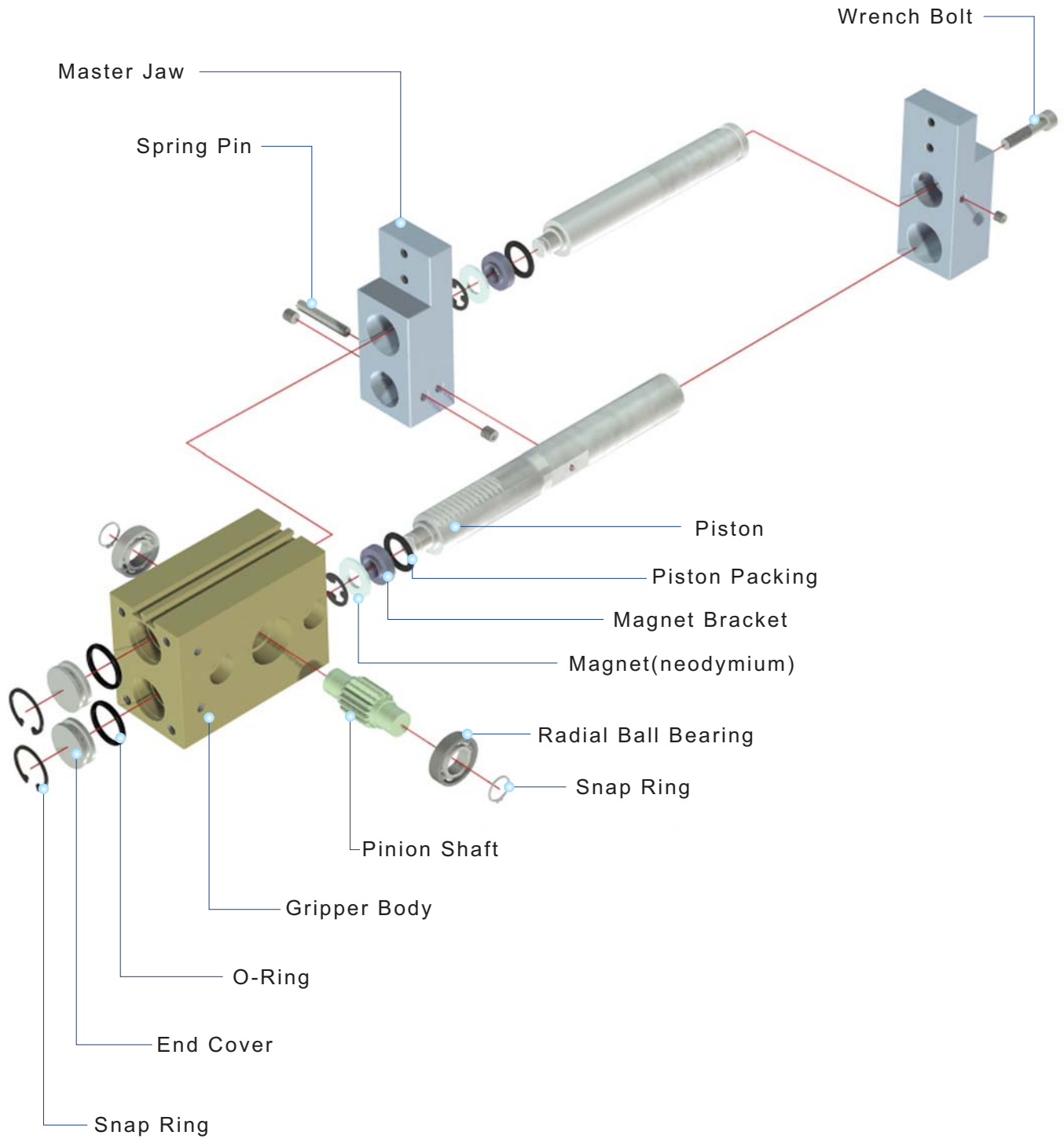
Body

high-tensile aluminum body lightest with possible because of hard anodizing



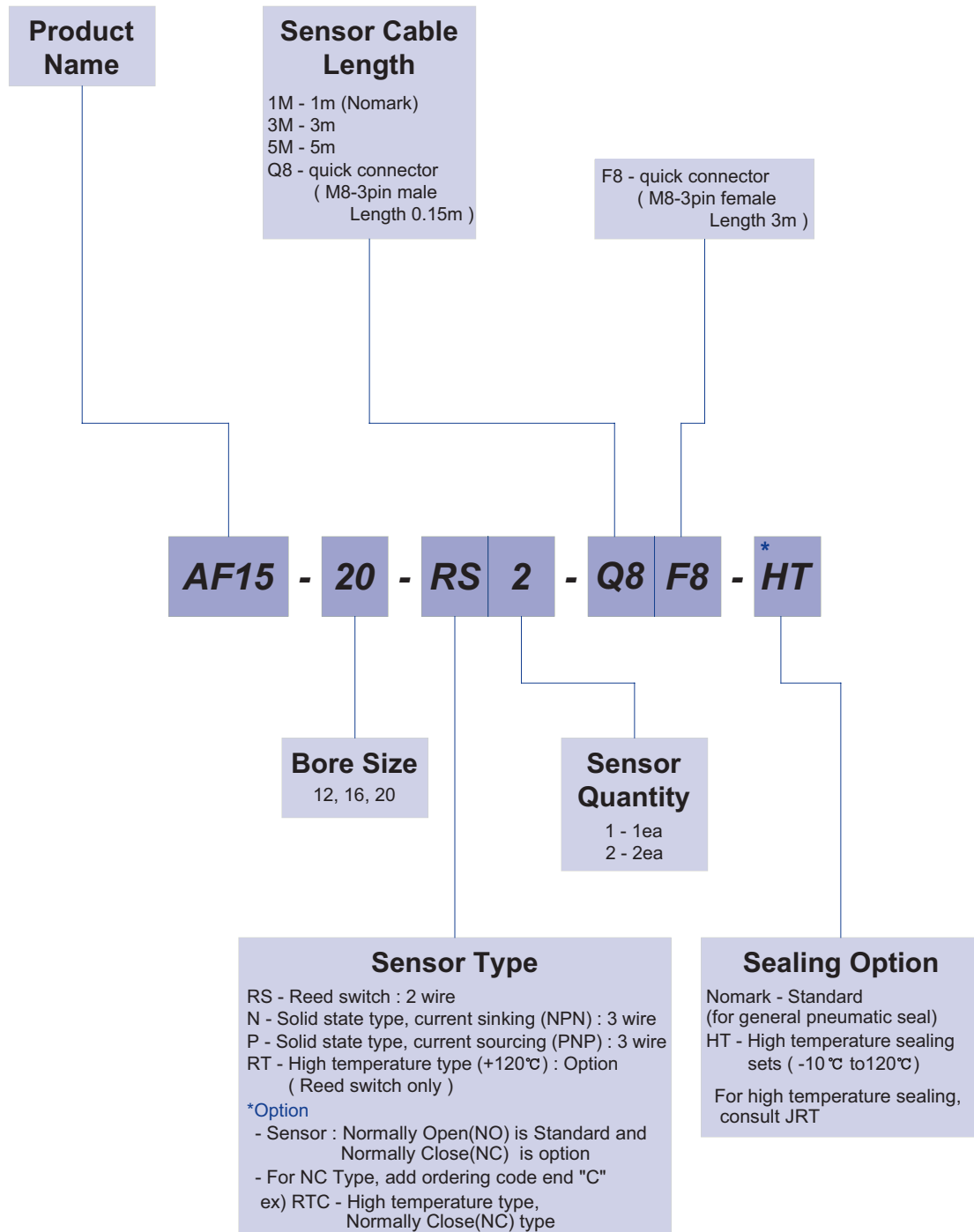
AF15

Exploded view



AF15

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF15

Specification

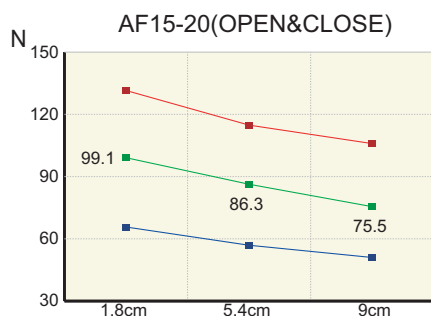
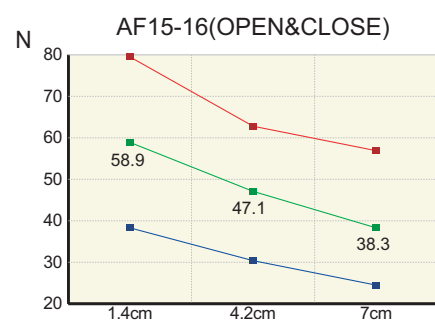
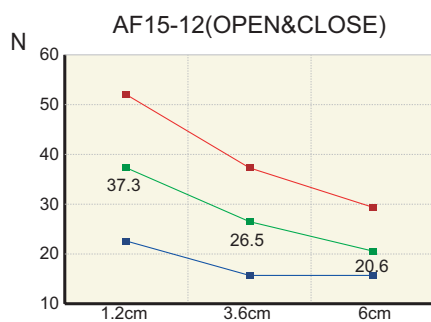
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF15-12	AF15-16	AF15-20	Unit
Stroke	20	30	36	mm
Weight	043	0.81	1.6	kg
Max. length of attach	60	70	90	mm
Fitting size	M5	M5	M5	
Gripping force:Open	46.11P/(5+0.1L)	107.91(P+0.7)/(9+0.1L)	392.4(P+1)/(22+0.1L)	N
Gripping force:Close				
Air consumption per cycle	1.1	3.0	5.7	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.01	0.01	0.01	mm
Max.cycle per minute	60	40	40	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

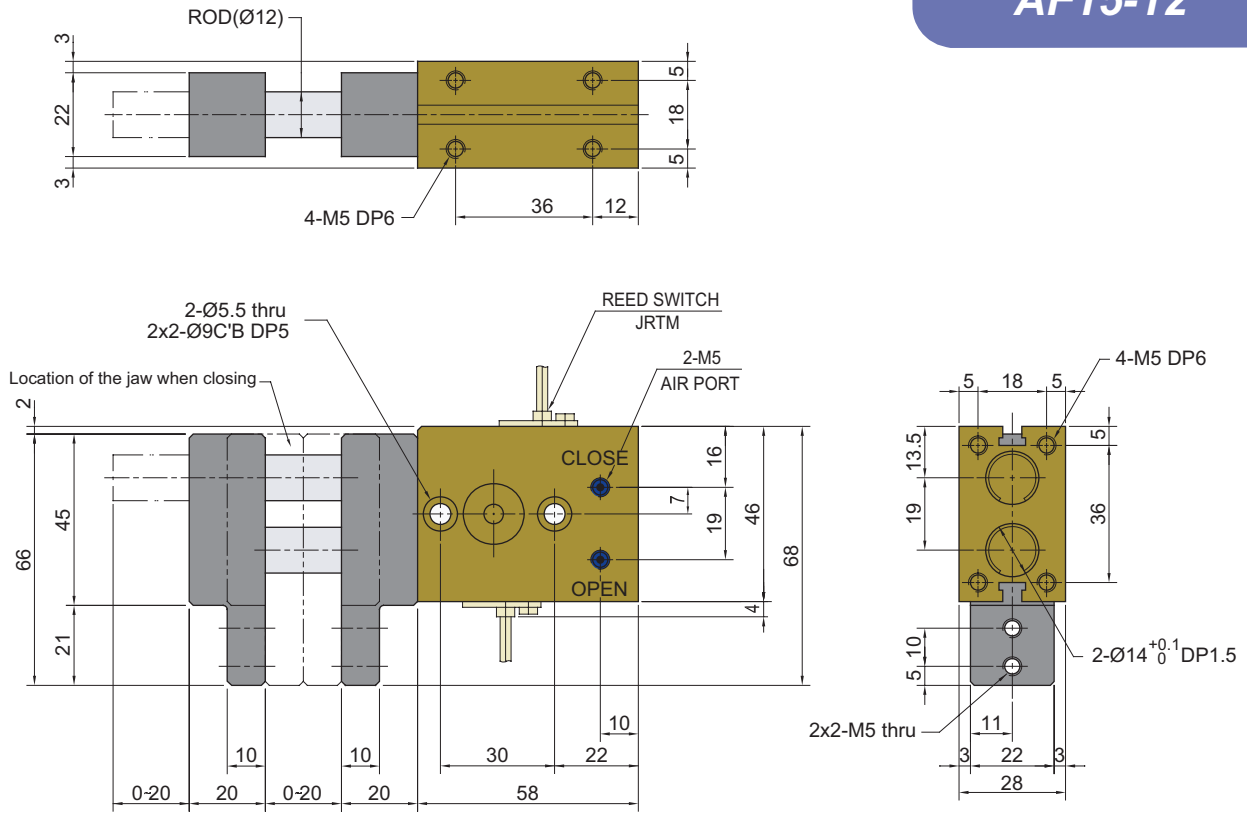
Gripping Force per exertion length

Legend : —■— 7[bar] —■— 5[bar] —■— 3[bar]

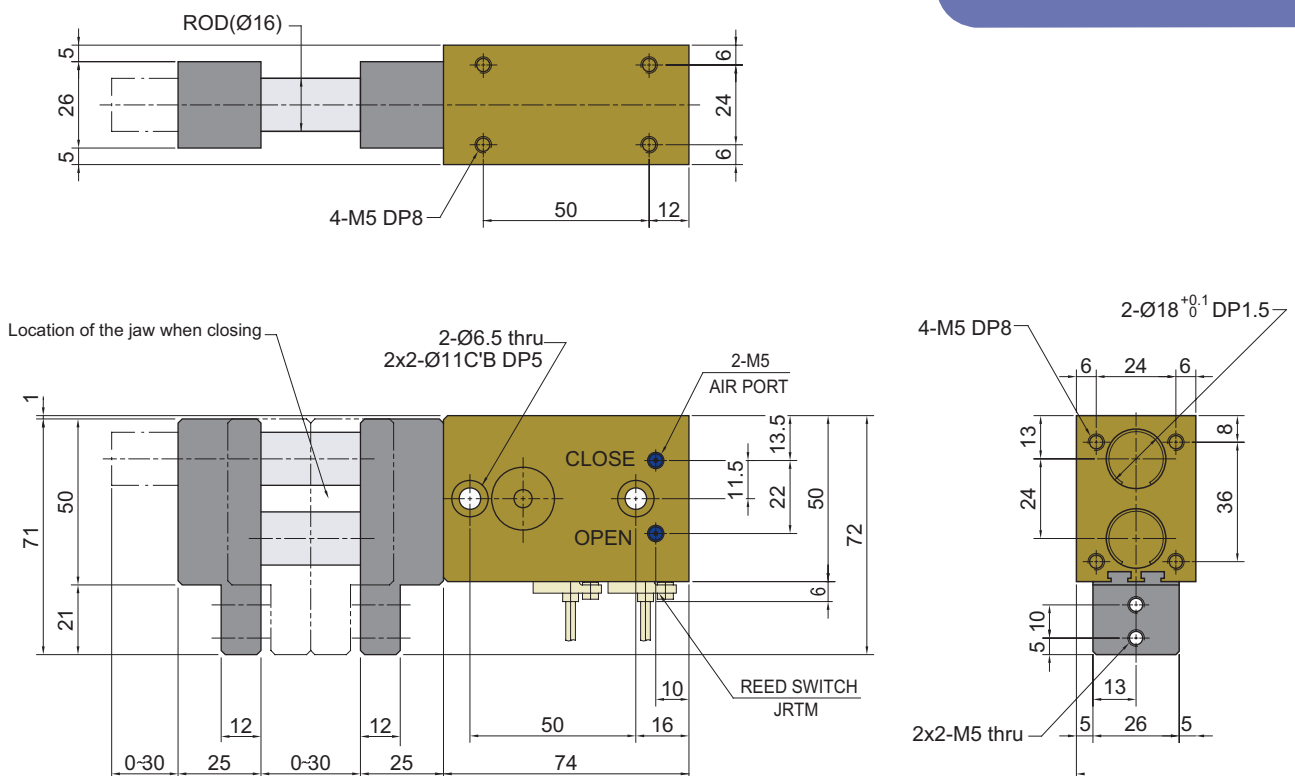


AF15

AF15-12

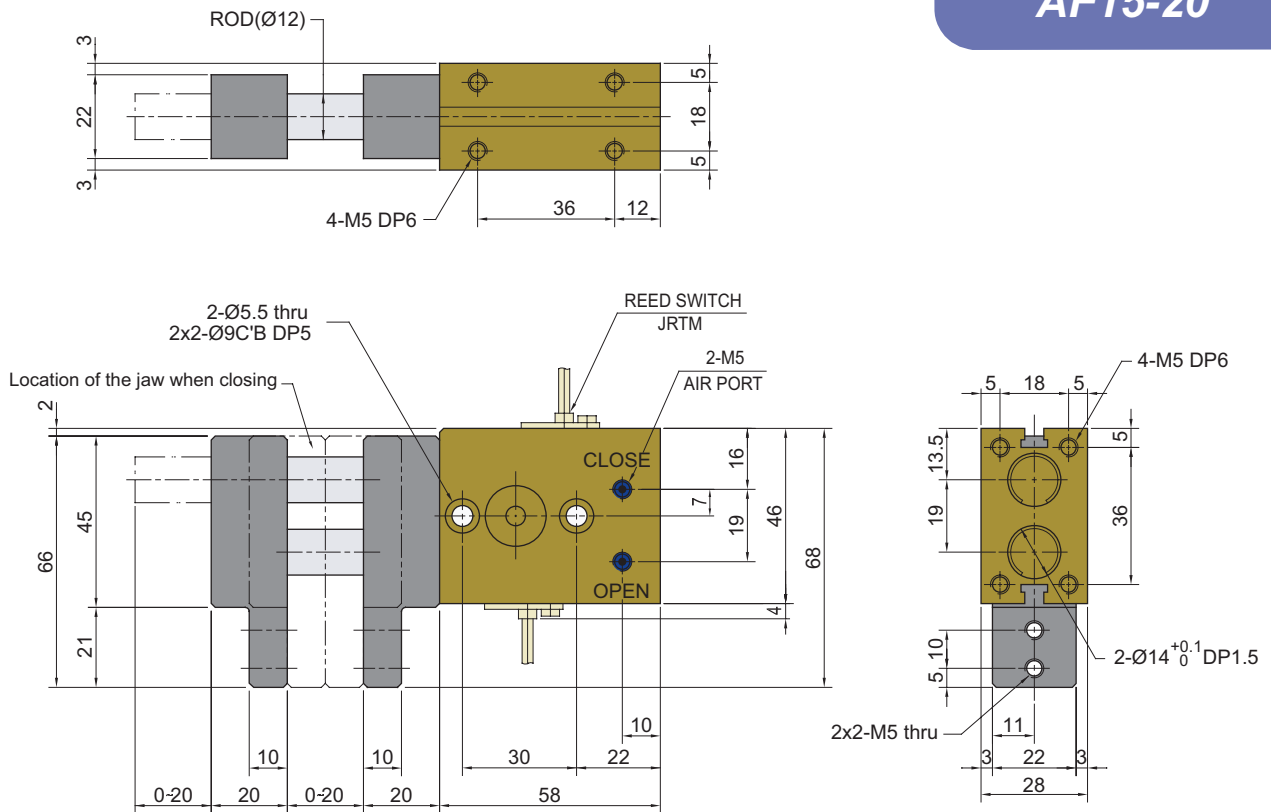


AF15-16



AF15

AF15-20



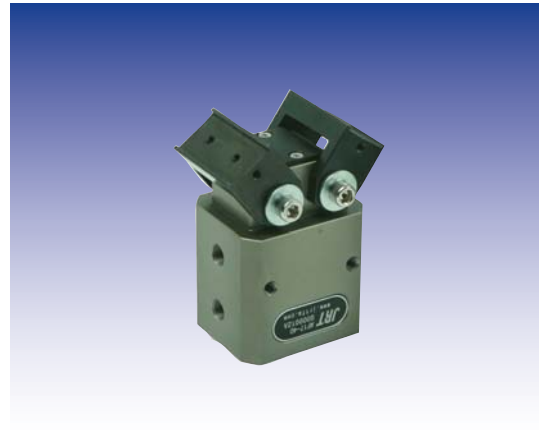
Note

Gripper

AF17-25,40

Character

- Angular type by Rack & Pinion driving unit
- Allow to grip the workpiece by open-close range 180° without any interference
- Magnetic sensor is available for open-close sensing



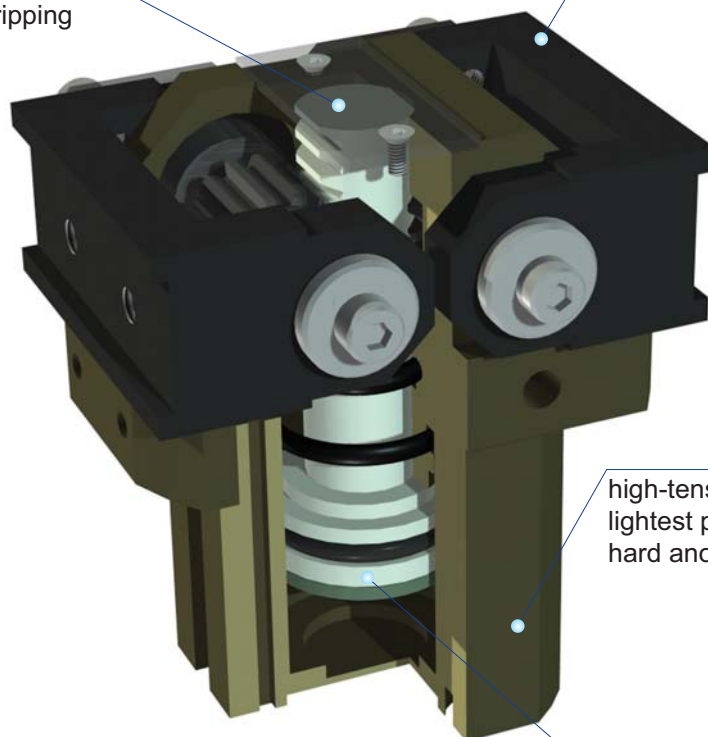
Rack & pinion type

Kinetics

pinion / toothed rack system, centric gripping

Gripping jaw

precise positioning of individual gripping jaws



Body

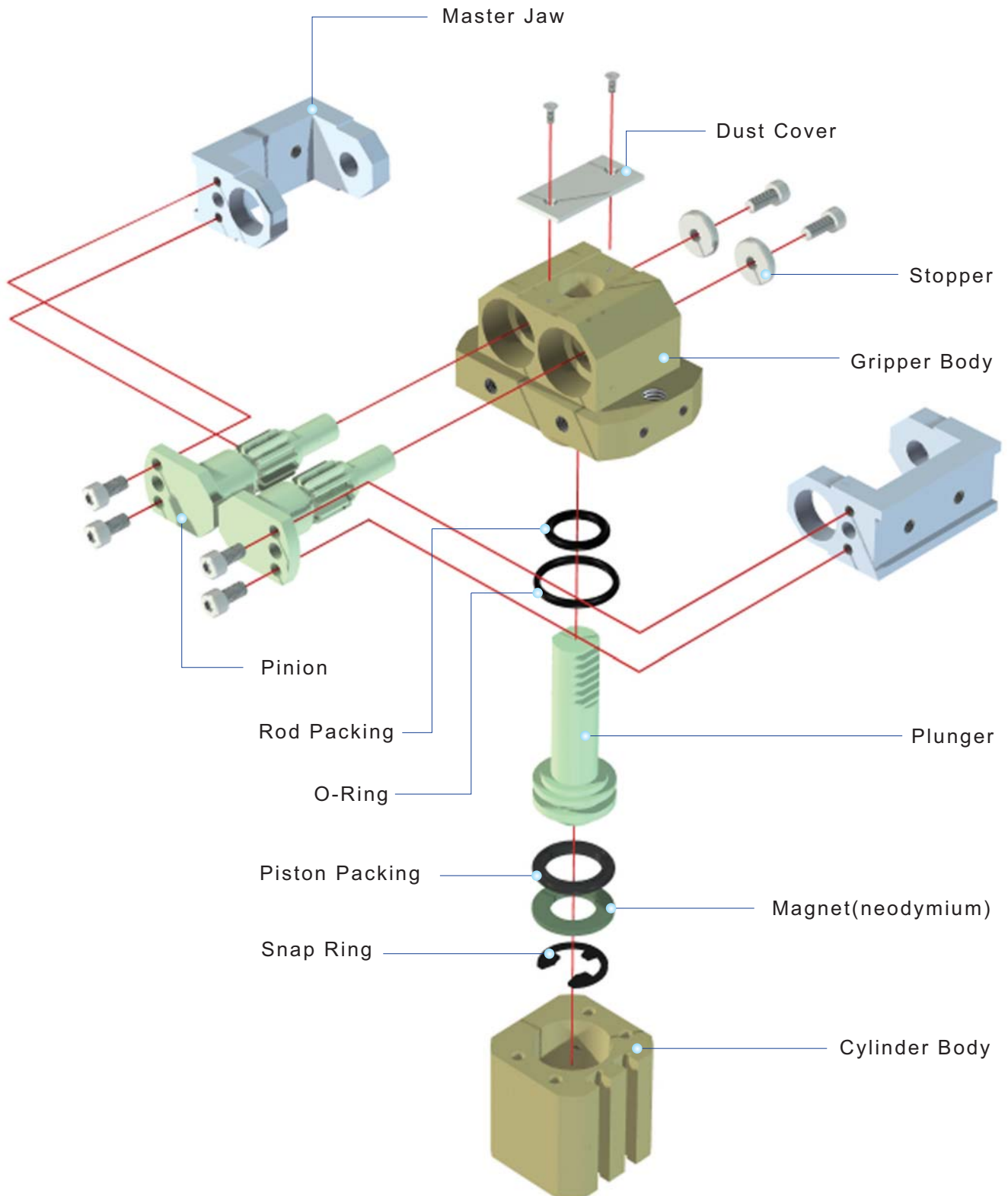
high-tensile aluminum body with lightest possible because of hard anodizing

Drive

double acting pneumatic cylinder

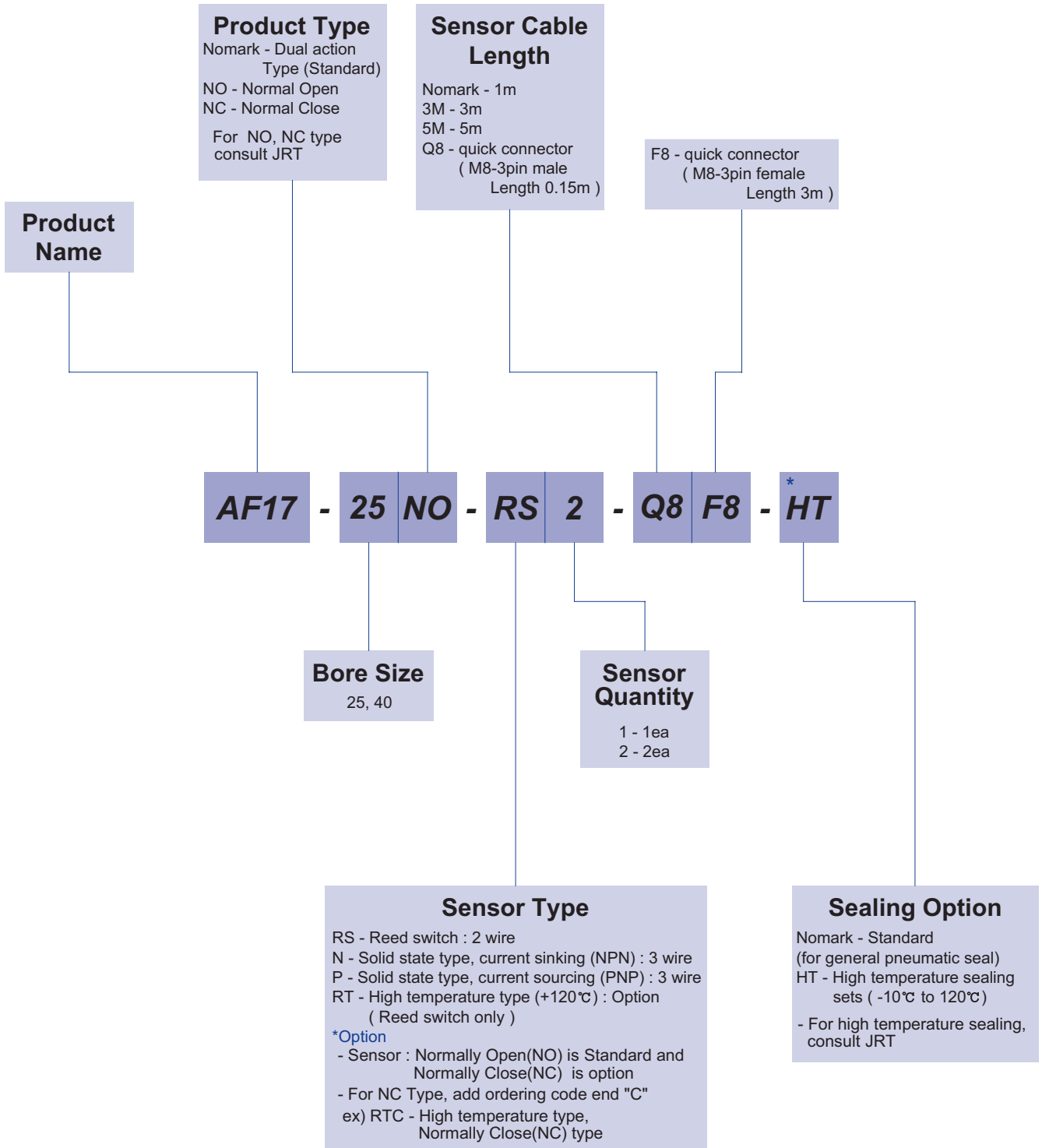
AF17

Exploded view



AF17

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF17

Specification

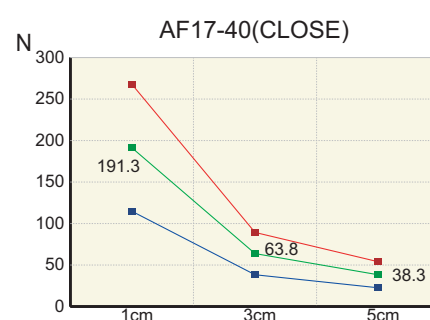
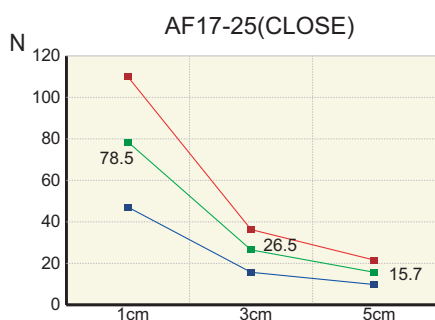
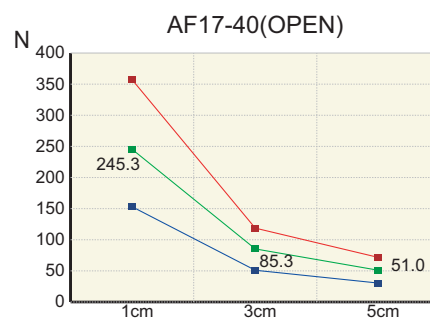
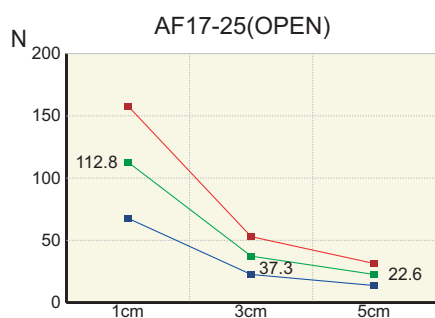
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF17-25	AF17-40	Unit
Working angle	0 to 180	0 to 180	degree
Weight	0.68	0.86	kg
Max. length of attach	50	50	mm
Fitting size	M5	PF(G) 1/8	
Gripping force:Open	22.56P/L	51.01P/L	N
Gripping force:Close	15.70P/L	38.26P/L	
Air consumption per cycle	8.3	21.2	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.02	sec
* Repeat accuracy	0.02	0.02	mm
Max.cycle per minute	60	60	
Operating pressure	3~7		bar
Ambient temperature	-5 to 60		°C
Lubrication	Needless		

* After 100 consecutive strokes to end positions

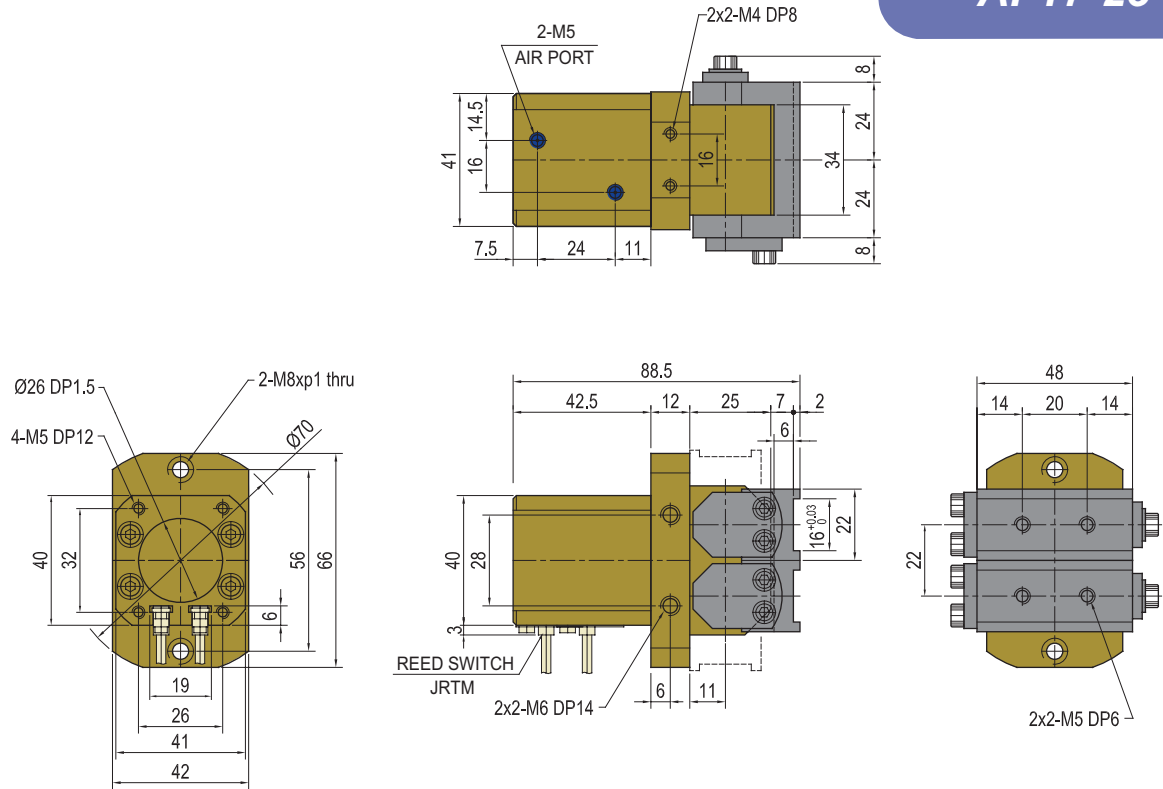
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

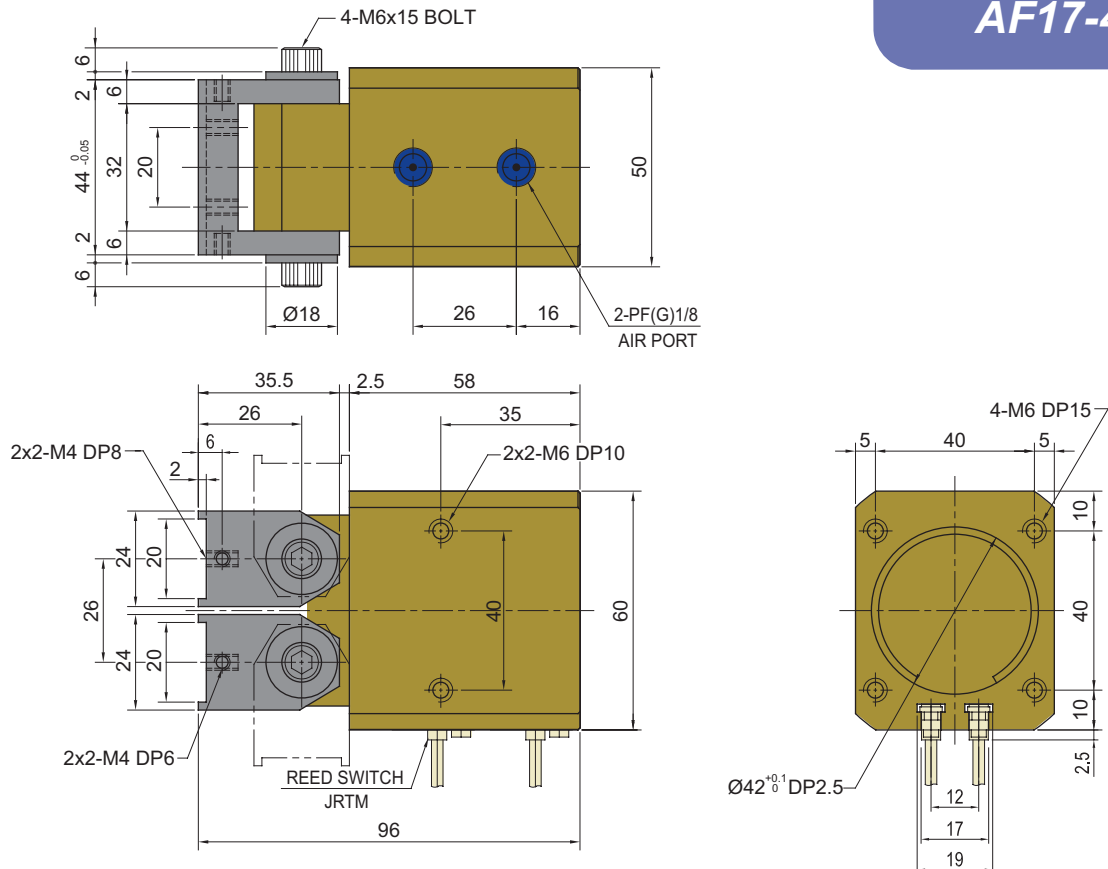


AF17

AF17-25



AF17-40



Notes

A large grid of dashed lines for taking notes. The grid consists of 20 columns and 25 rows of squares, with rounded corners on the top and bottom edges. The lines are thin and grey, creating a clean and professional appearance.

Gripper

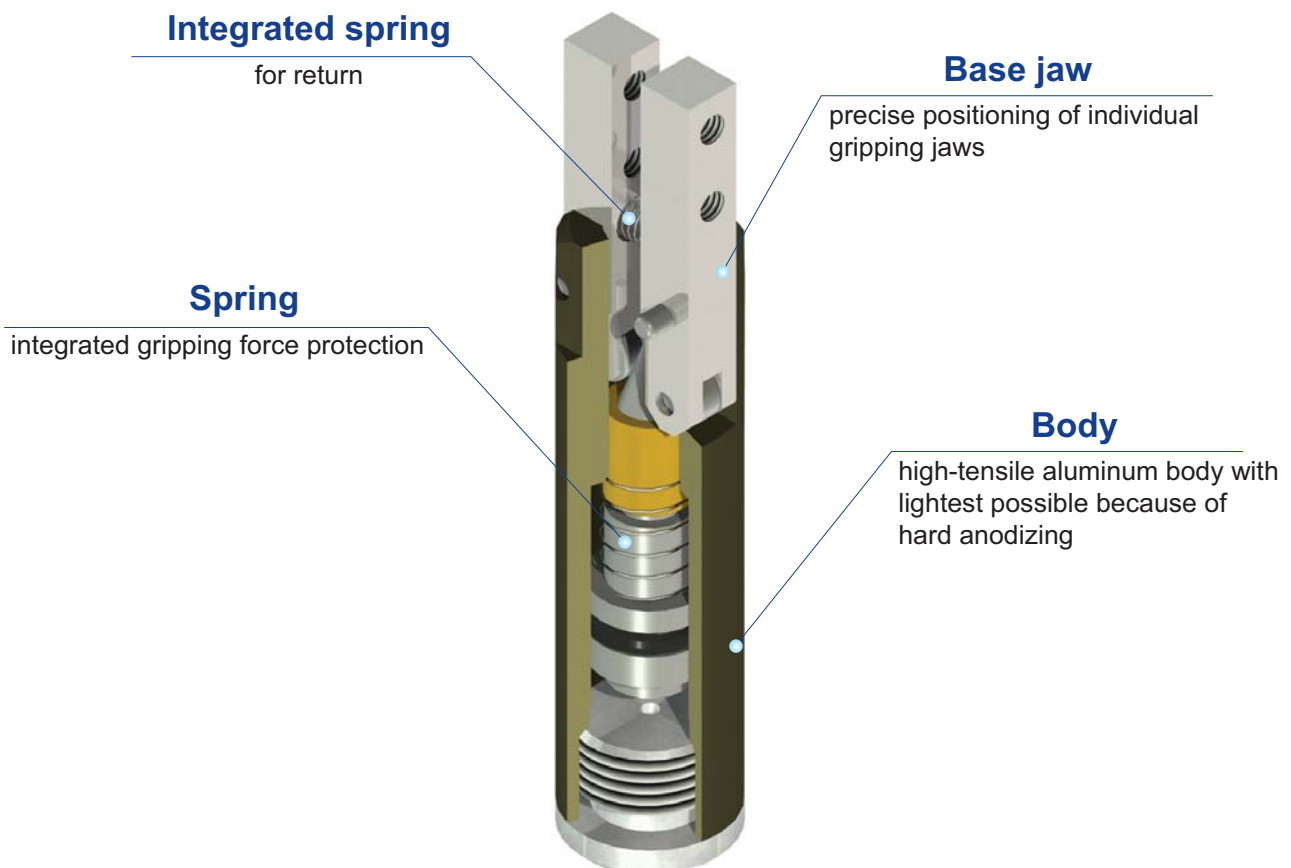
AF19-10

Character

- Angular type by cam & roller driving unit
- Suitable to grip for small electronic workpiece
- Quick responsibility by normally open type
- Magnetic sensor is not available

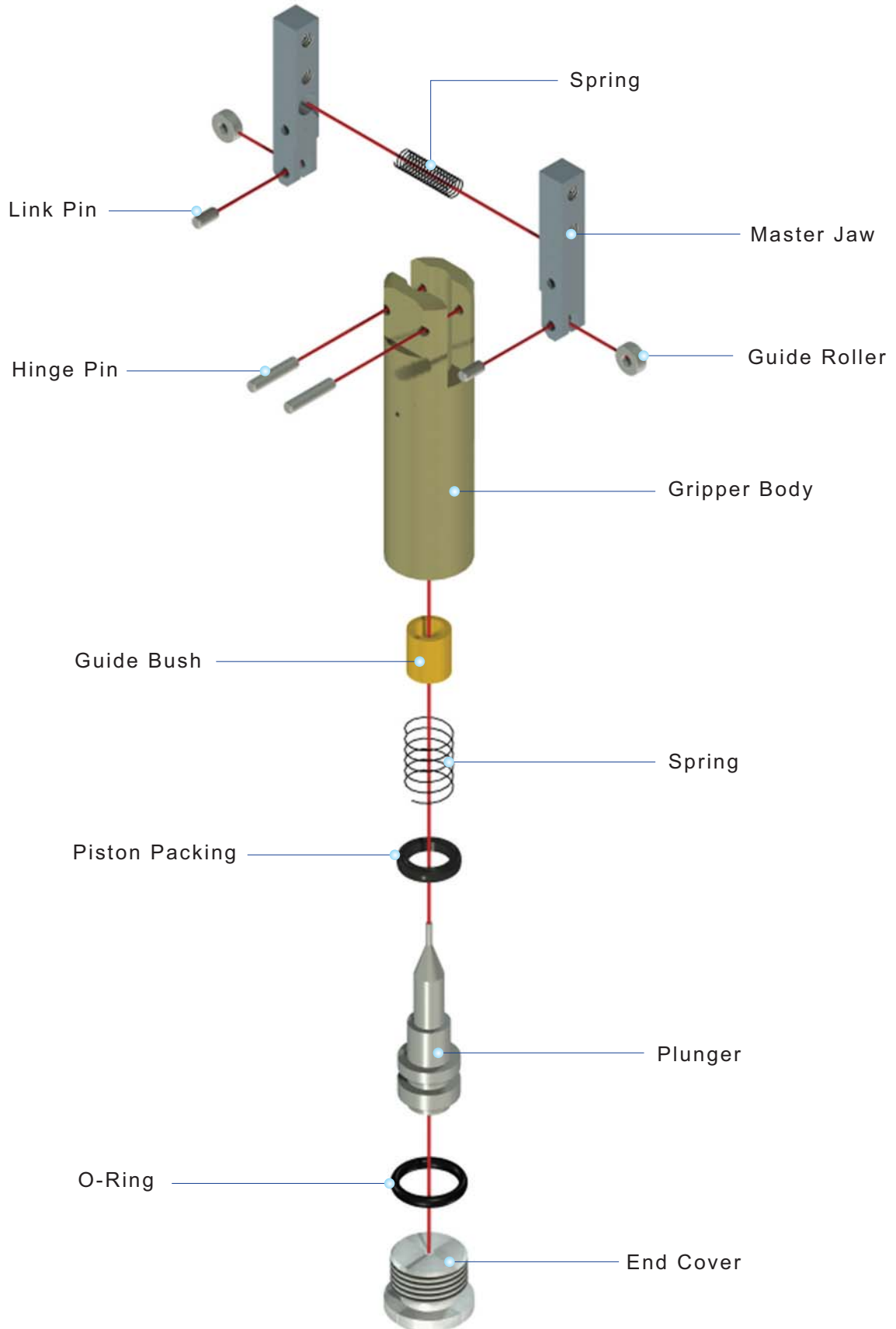


Cam roller type



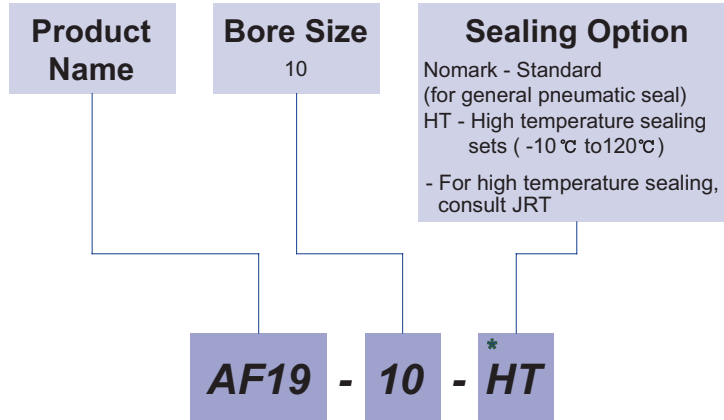
AF19

Exploded view



AF19

Ordering Code



This product sensor is only back pressure sensor
 The delivery of * mark option is longer than a standard, So inquire of JRT

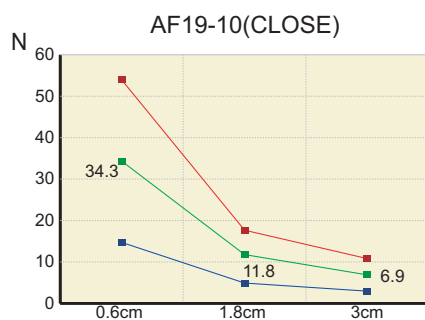
Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Product name	AF19-10	Unit
Working angle	-7 to 14	degree
Weight	0.04	kg
Max. length of attach	30	mm
Fitting size	M5	
Gripping force:Open	—	
Gripping force:Close	5.9(P-1.5)/L	N
Max.cycle per minute	60	
Operating pressure	3 to 7	bar
Ambient temperature	-5 to 60	°C
Lubrication	Needless	

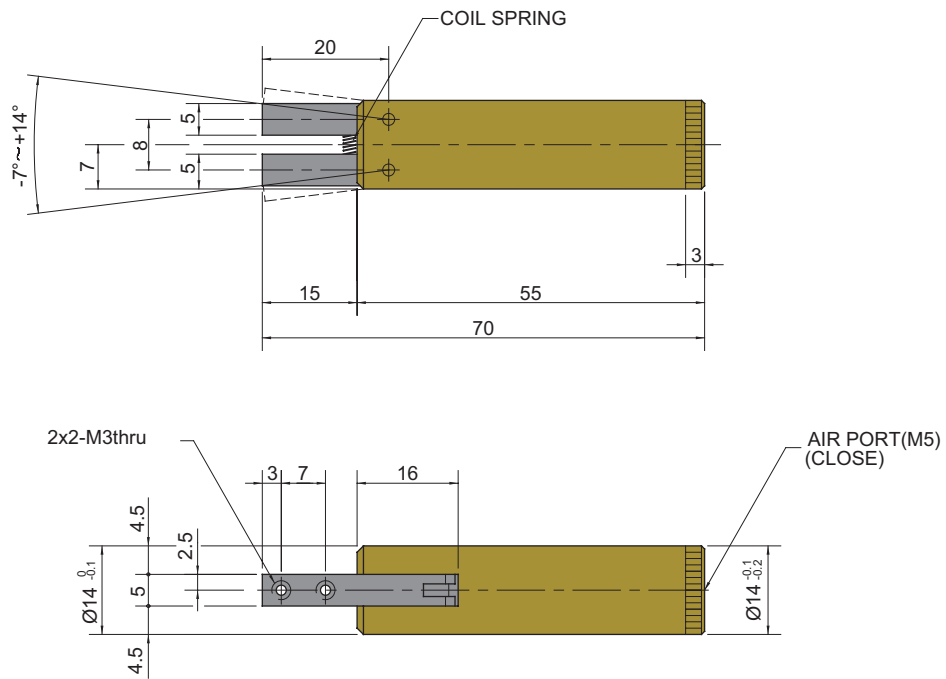
Gripping Force per exertion length

Legend : — 7[bar] — 5[bar] — 3[bar]



AF19

AF19-10



Note

Gripper

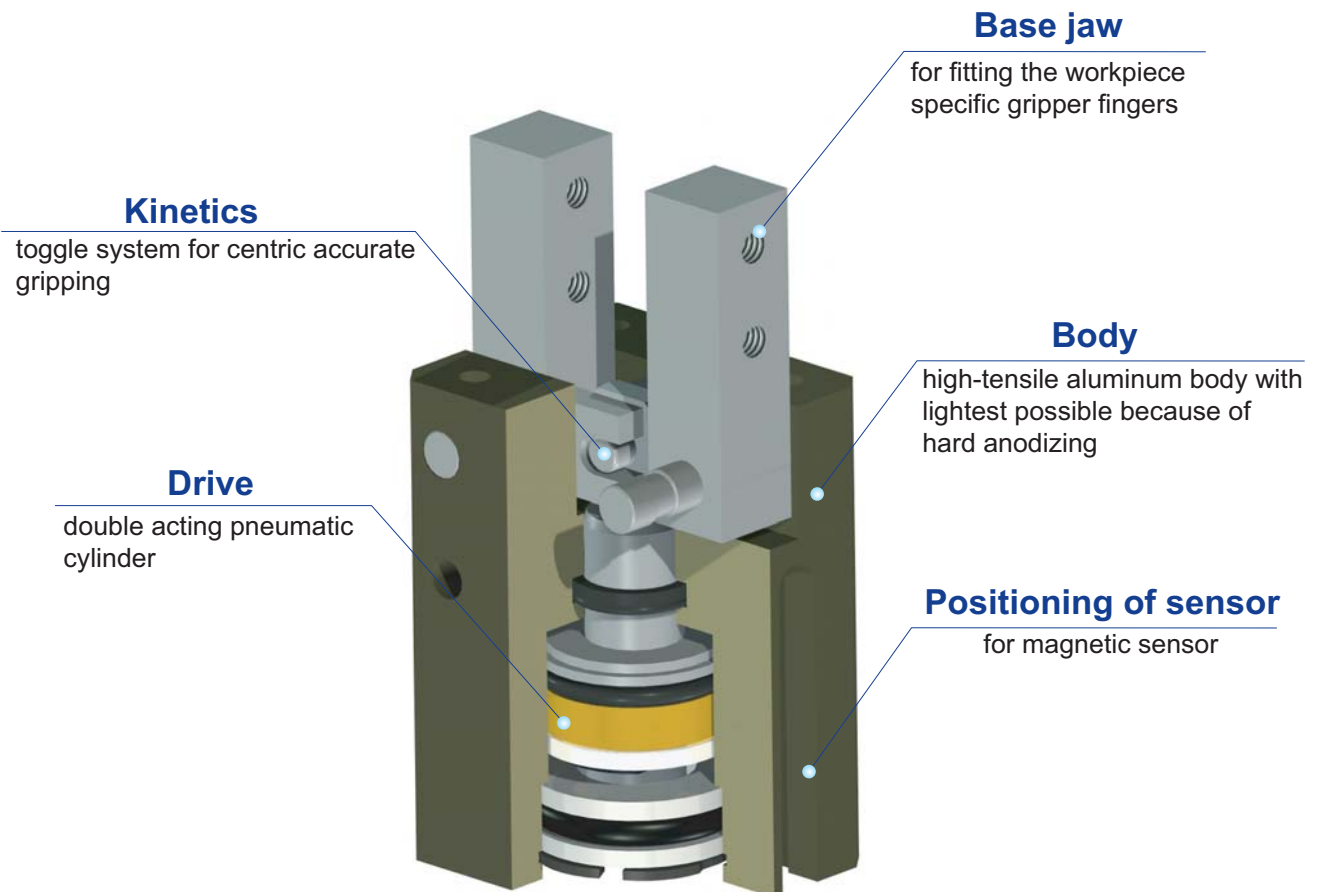
AF24-12N, 16N, 20, 30, 40

Character

- Angular type by link lever driving unit
- Mounting possible from 3 sides by square type body
- Magnetic sensor is available for open-close sensing

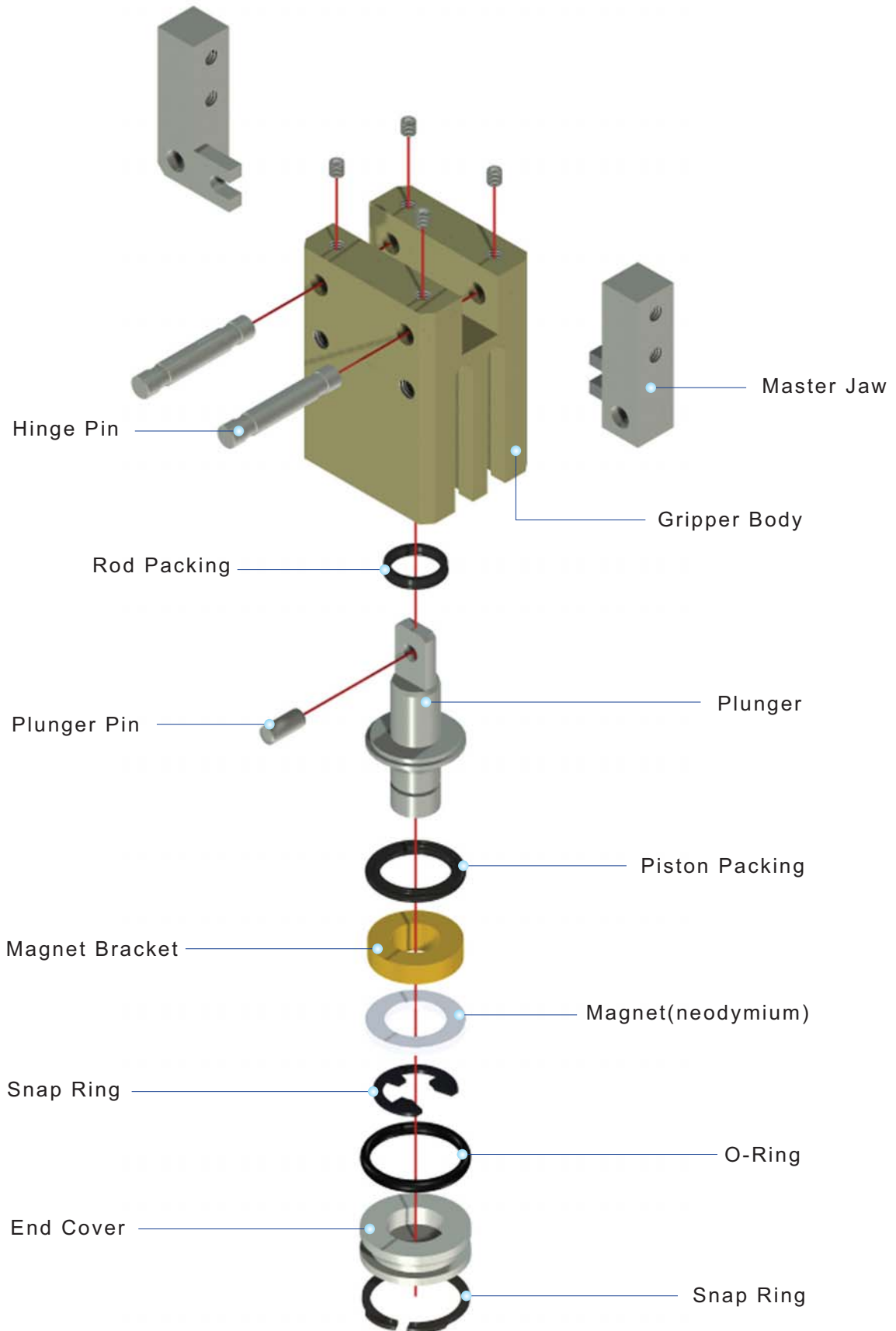


Link lever type



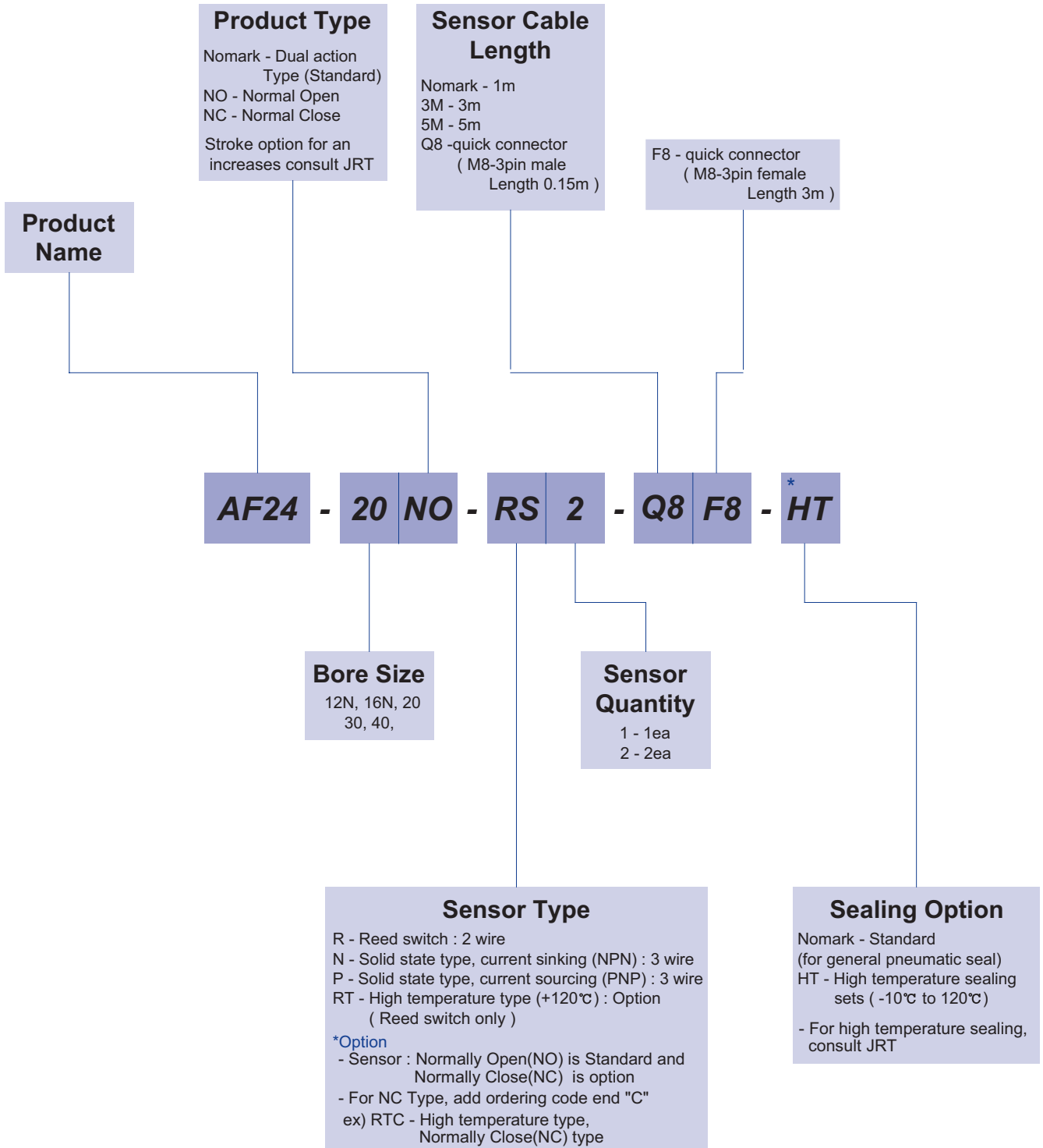
AF24

Exploded view



AF24

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF24

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF24-12N	AF24-16N	AF24-20	AF24-30	AF24-40	Unit
Working angle	-5 to 15	-5 to 15	-5 to 20	-5 to 20	-5 to 25	degree
Weight	0.05	0.06	0.02	0.41	0.76	kg
Max. length of attach	45	60	70-	85	120	mm
Fitting size	M5	M5	M5	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	9.81P/L	19.62P/L	36.3P/L	110.85P/L	234.46P/L	N
Gripping force:Close	7.36P/L	14.72P/L	27.47P/L	86.33P/L	191.30P/L	N
Air consumption per cycle	0.3	0.7	1.6	4.7	11.0	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.02	0.02	0.02	0.02	0.02	mm
Max.cycle per minute	60	60	60	45	40	
Operating pressure	3~7					bar
Ambient temperature	-5 to 60					°C
Lubrication	Needless					

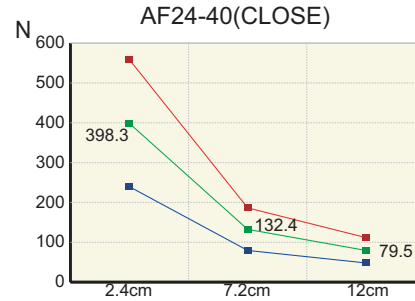
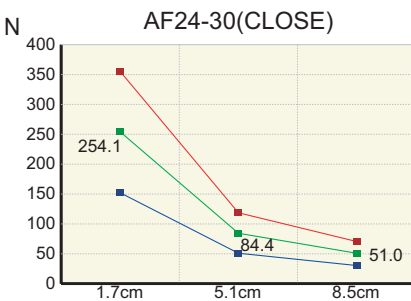
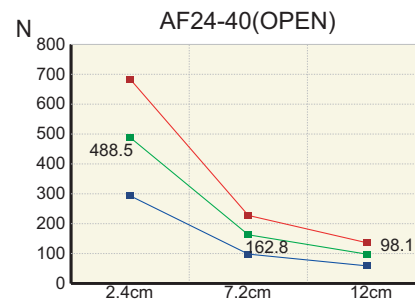
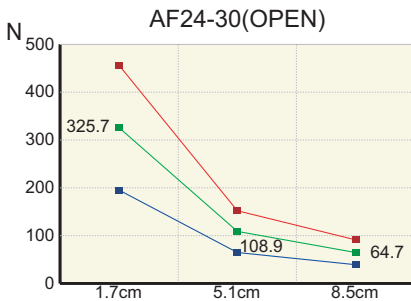
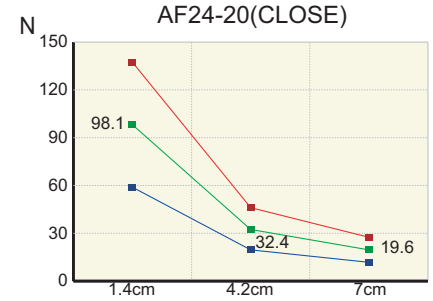
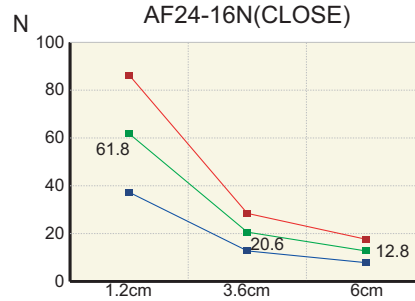
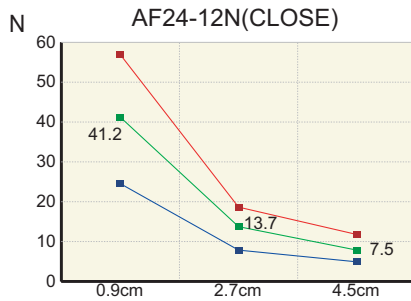
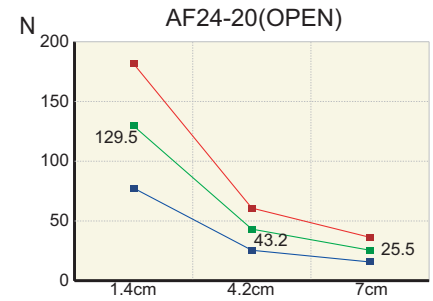
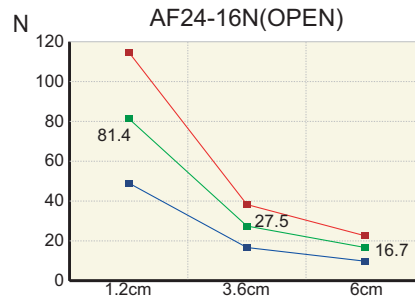
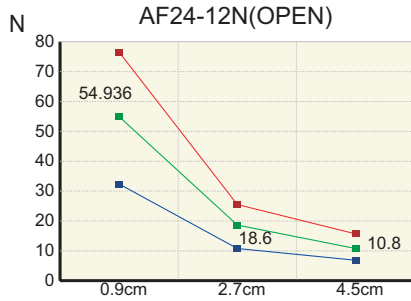
* After 100 consecutive strokes to end positions

Note

AF24

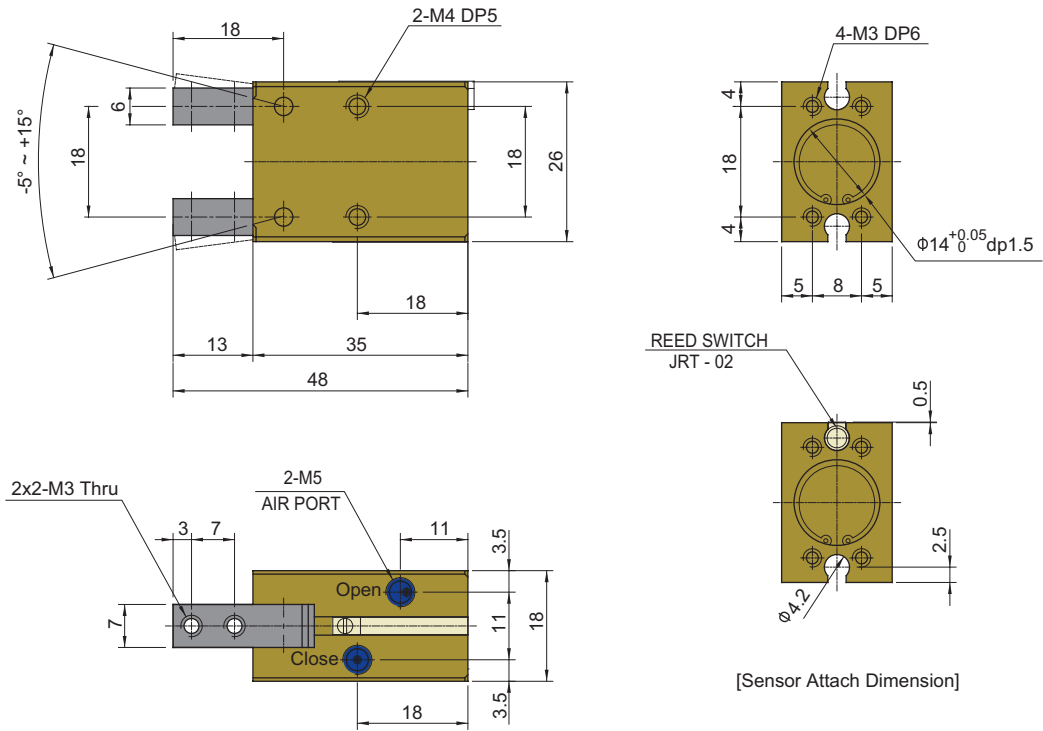
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

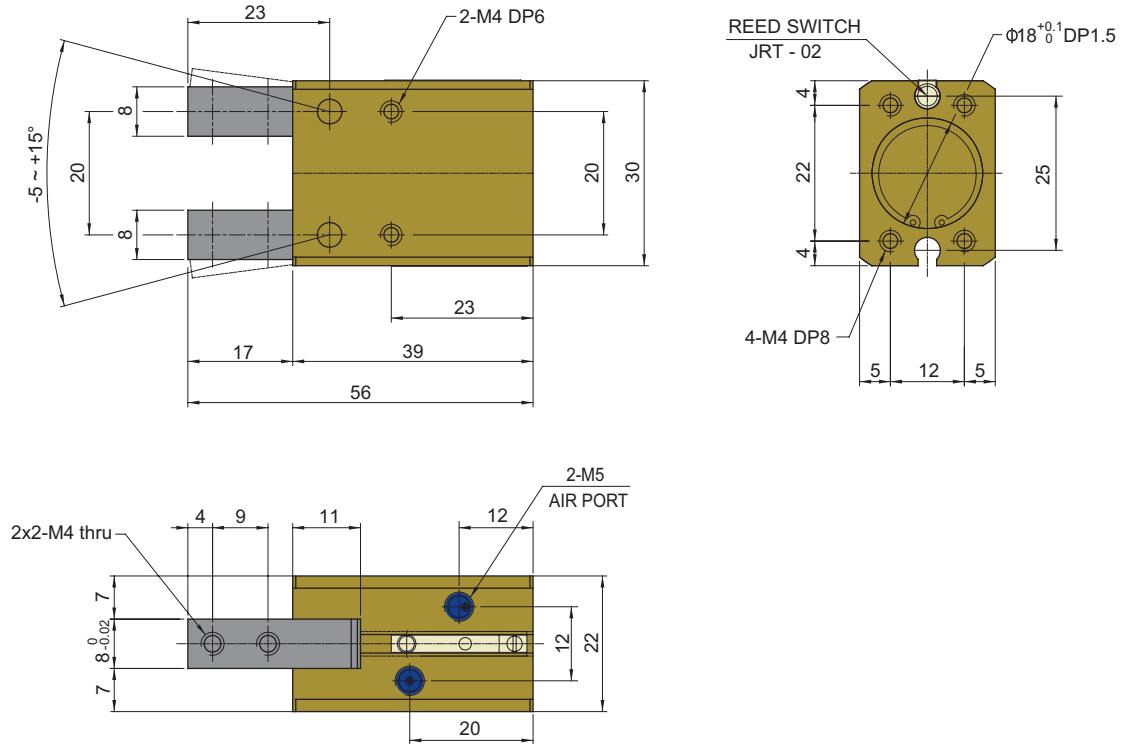


AF24

AF24-12N

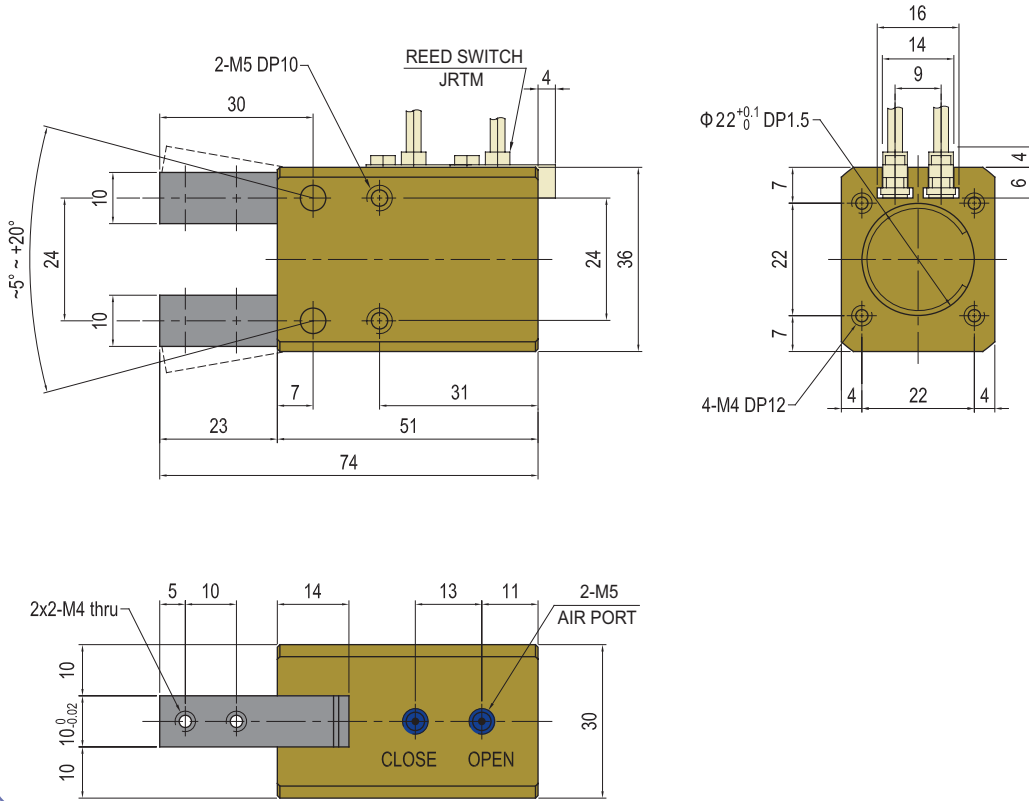


AF24-16N

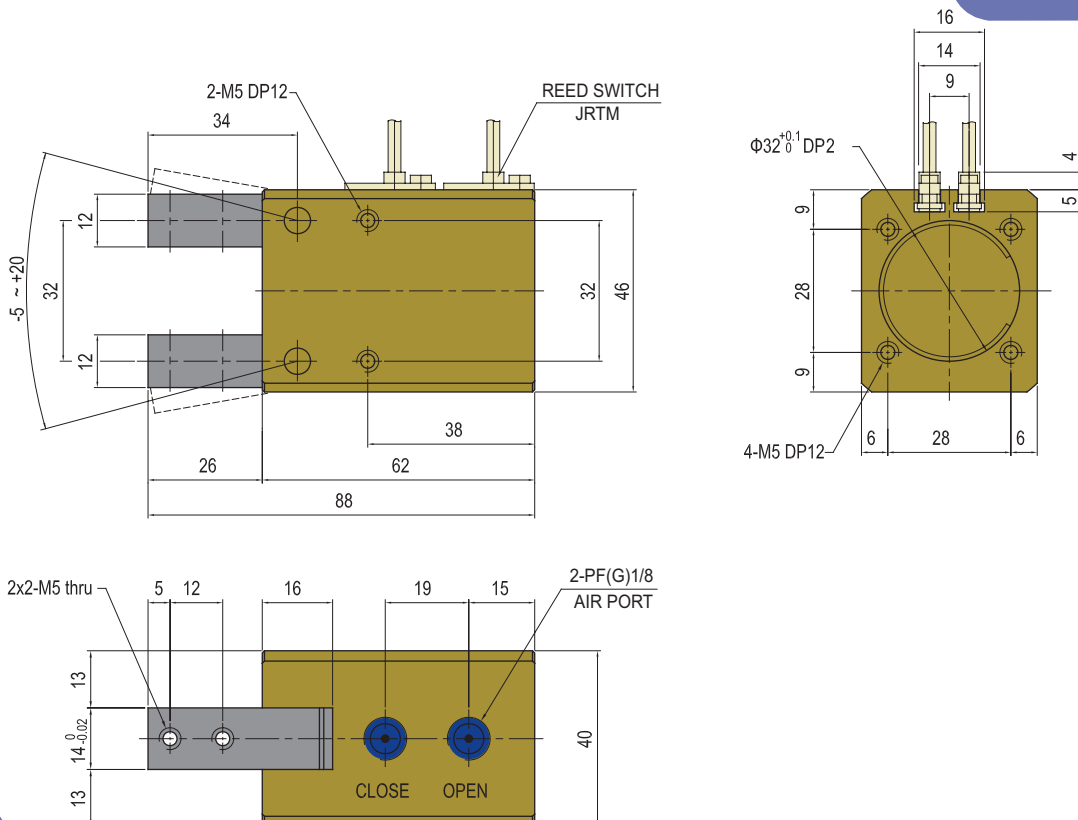


AF24

AF24-20

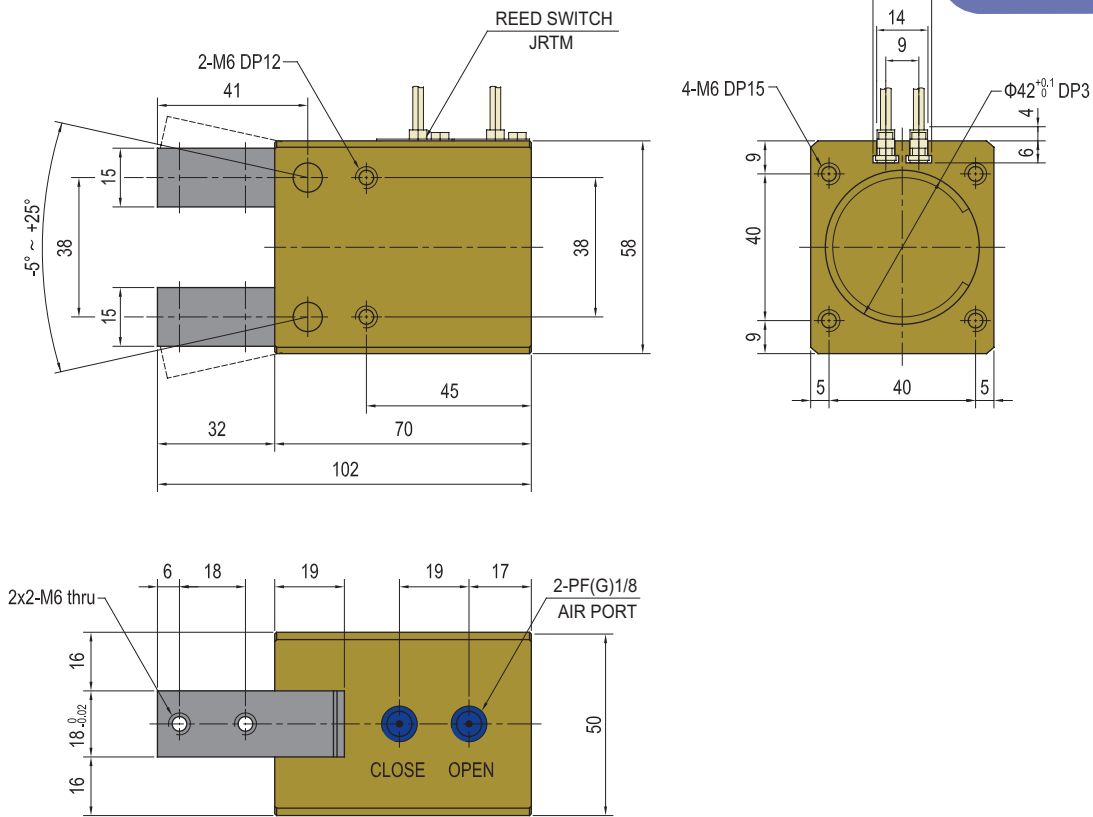


AF24-30



AF24

AF24-40



Note

Gripper

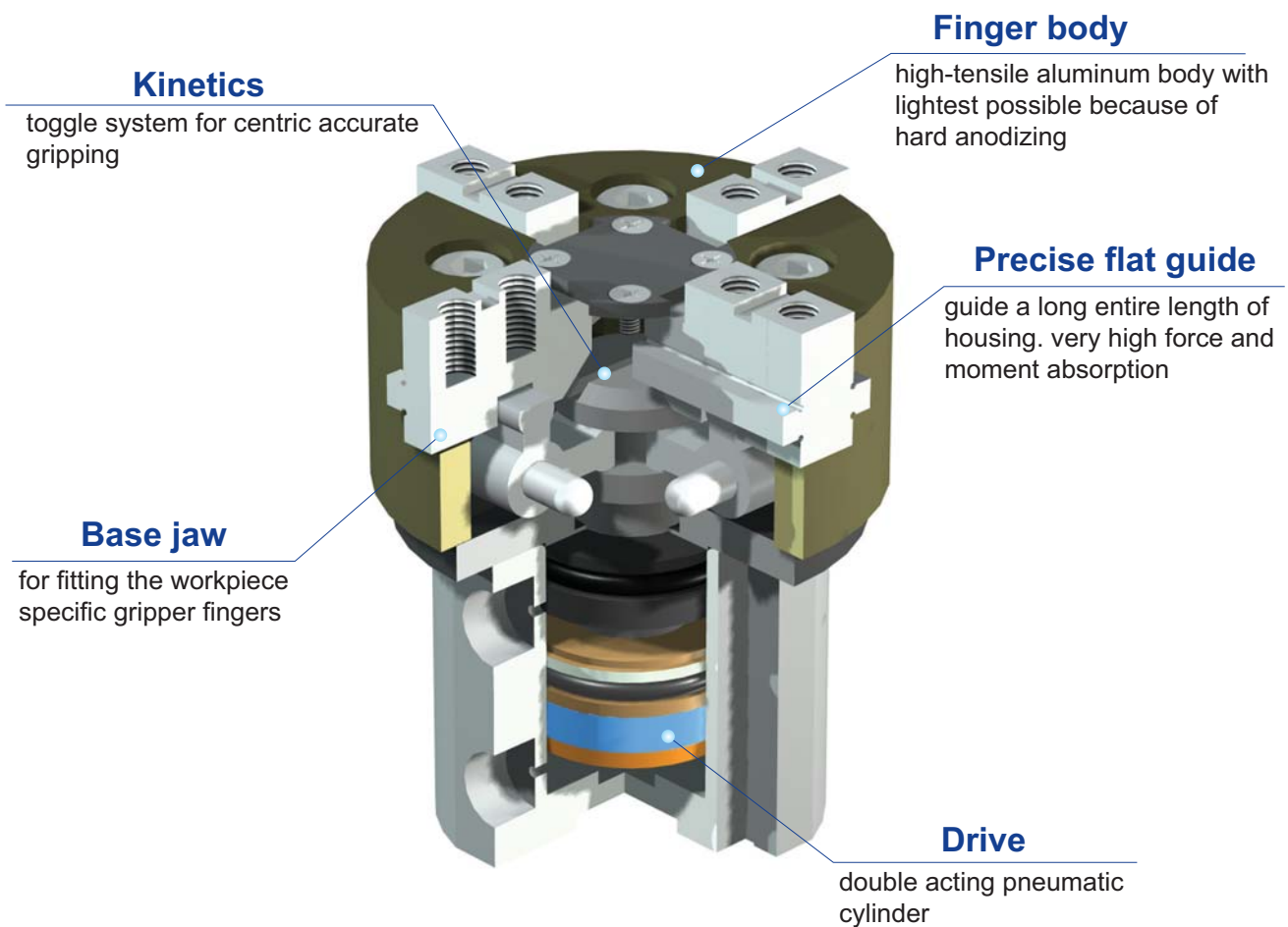
AF26-16,20,25,30,40,50,63,80,100

Character

- Great gripping force by link lever
- Wide and various selection possible by various size
- Easy to grip the center of workpiece by the cylindrical structure
- Various type by 2,3,4 jaw
- Magnetic sensor is available for open-close sensing

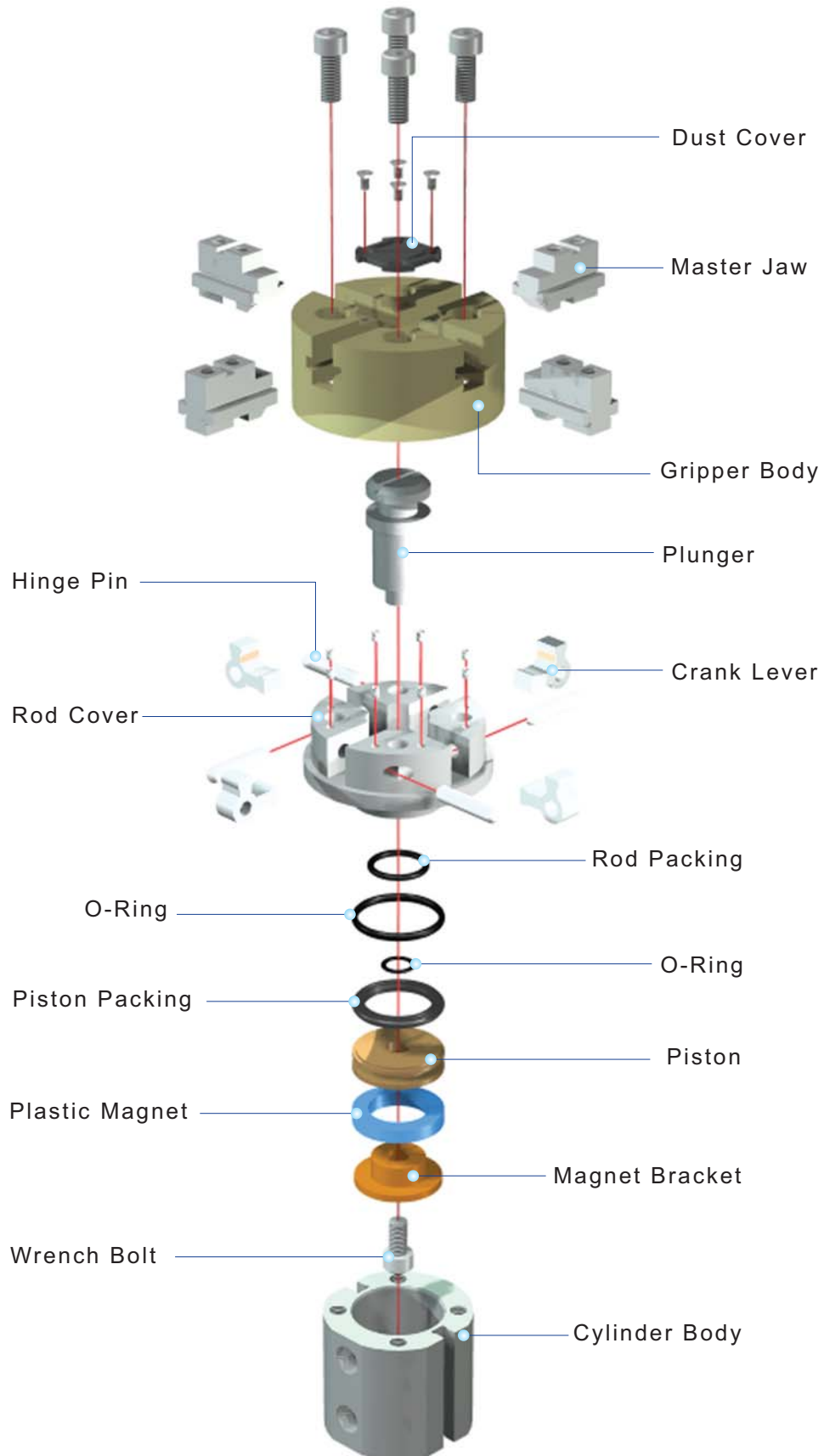


Link lever type



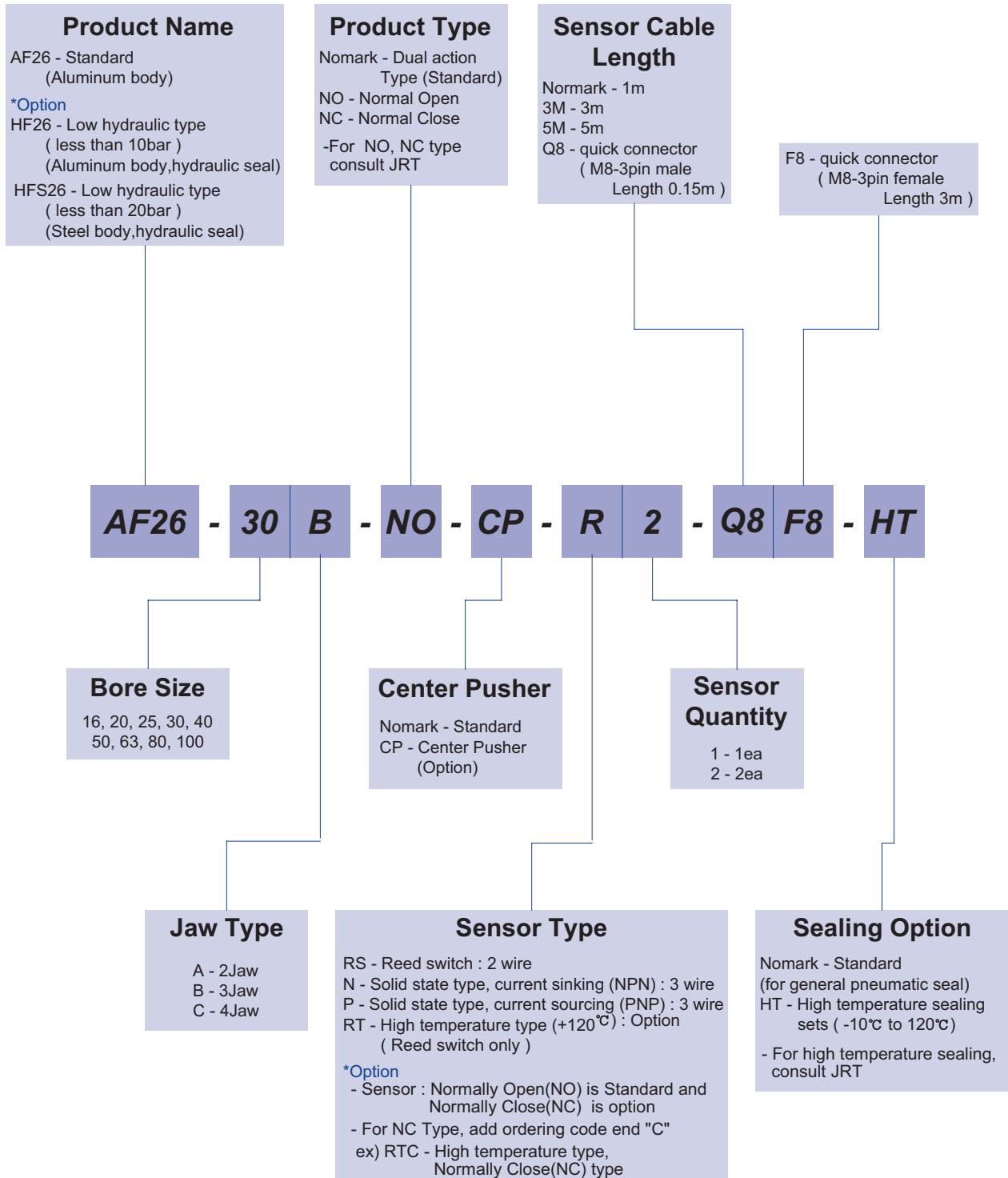
AF26

Exploded view



AF26

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF26

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF26-16	AF26-20	AF26-25	AF26-30	AF26-40	Unit
Stroke	6	8	12	12	20	mm
Weight	0.21	0.32	0.51	0.63	1.59	kg
Max. length of attach	30	40	50	55	70	mm
Fitting size	M5	M5	M5	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	17.66P/(1+0.04L)	29.43P/(1+0.035L)	46.11P/(1+0.025L)	66.71P/(1+0.025L)	115.76P/(1+0.015L)	N
Gripping force:Close	13.73P/(1+0.04L)	22.56P/(1+0.035L)	37.28P/(1+0.025L)	49.05P/(1+0.025L)	87.31P/(1+0.015L)	
Air consumption per cycle	1.1	2.9	6.9	9.7	30.8	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.02 / 0.02	0.02 / 0.02	0.03 / 0.04	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	60	50	50	
Operating pressure	3~7					bar
Ambient temperature	-5 to 60					°C
Lubrication	Needless					

* After 100 consecutive strokes to end positions

P=Air Pressure[bar] , L=Exertion length[mm]

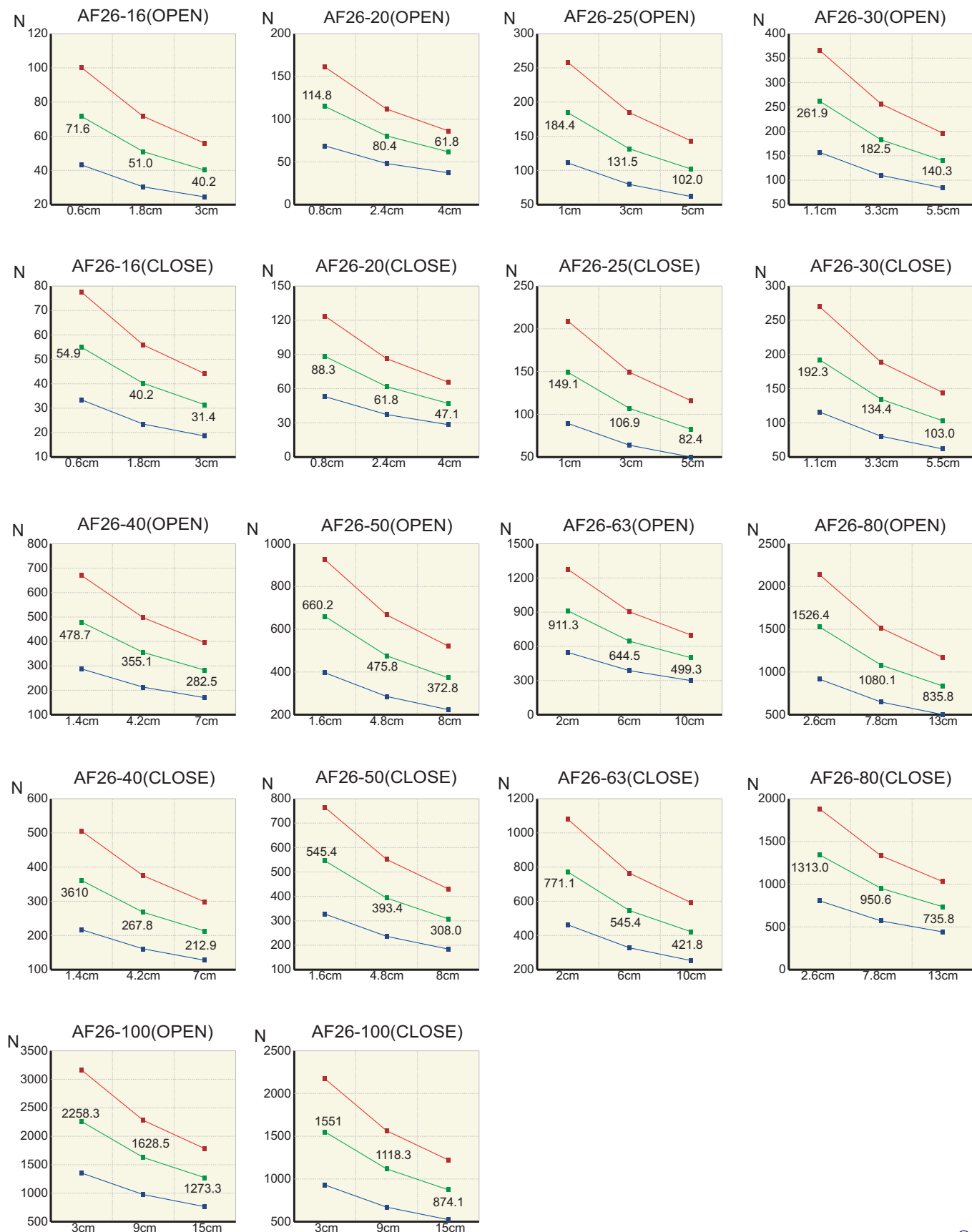
Products Name	AF26-50	AF26-63	AF26-80	AF26-100	Unit
Stroke	20	26	30	42	mm
Weight	2.12	3.44	5.08	7.83	kg
Max. length of attach	80	100	130	150	mm
Fitting size	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	163.8P/(1+0.015L)	229.6P/(1+0.013L)	384.6P/(1+0.01L)	560.2P/(1+0.008L)	N
Gripping force:Close	135.4P/(1+0.015L)	194.2P/(1+0.013L)	338.4P/(1+0.01L)	384.6P/(1+0.008L)	
Air consumption per cycle	48.1	109.1	219.9	442.5	cm ³
Closing / Opening time	0.03 / 0.04	0.06 / 0.08	0.15 / 0.20	0.30 / 0.35	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	40	40	30	30	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

AF26

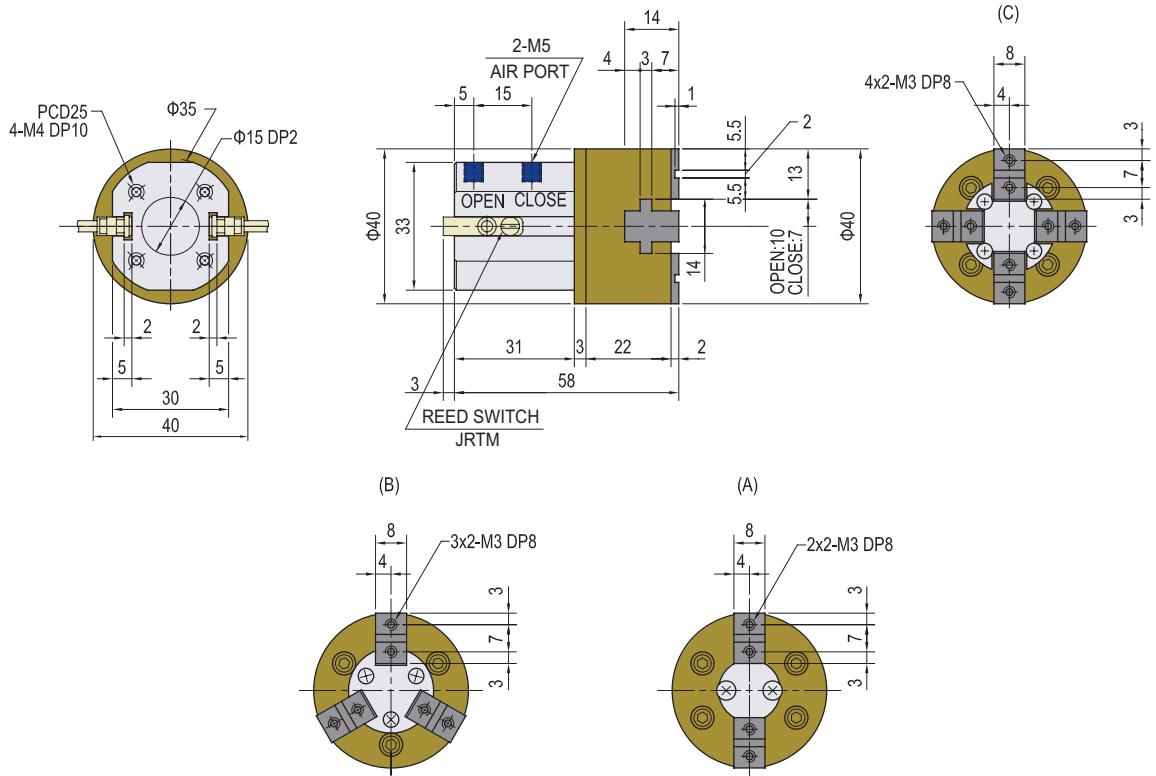
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

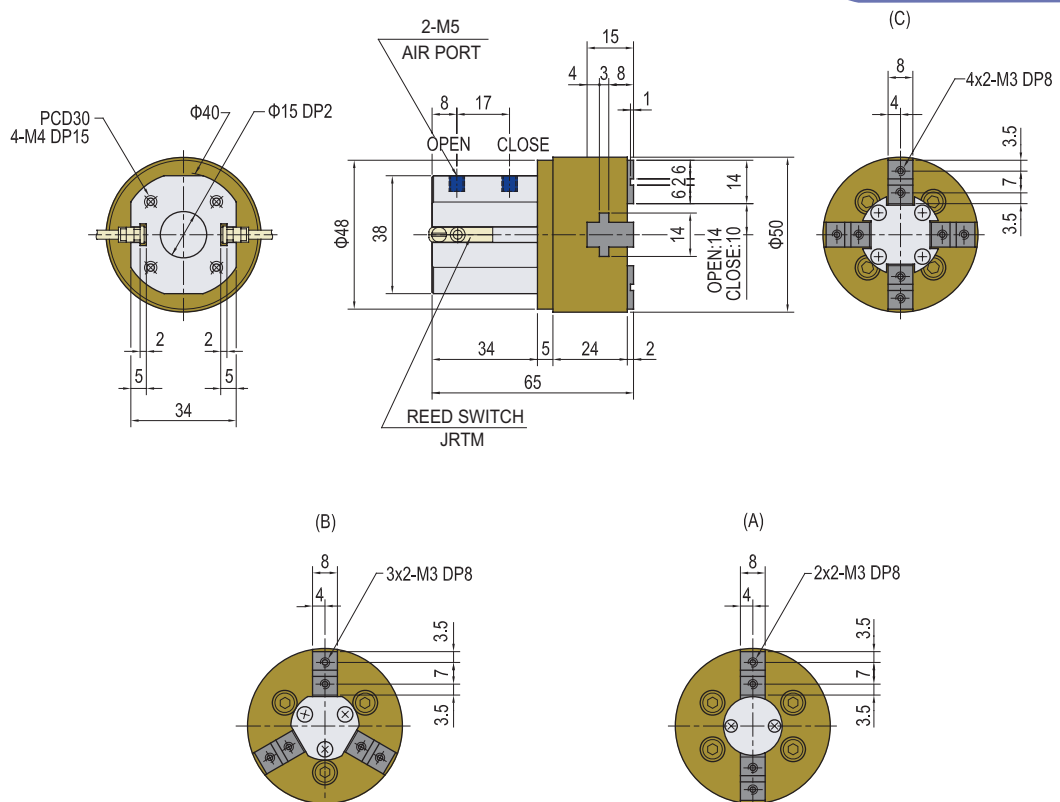


AF26

AF26-16

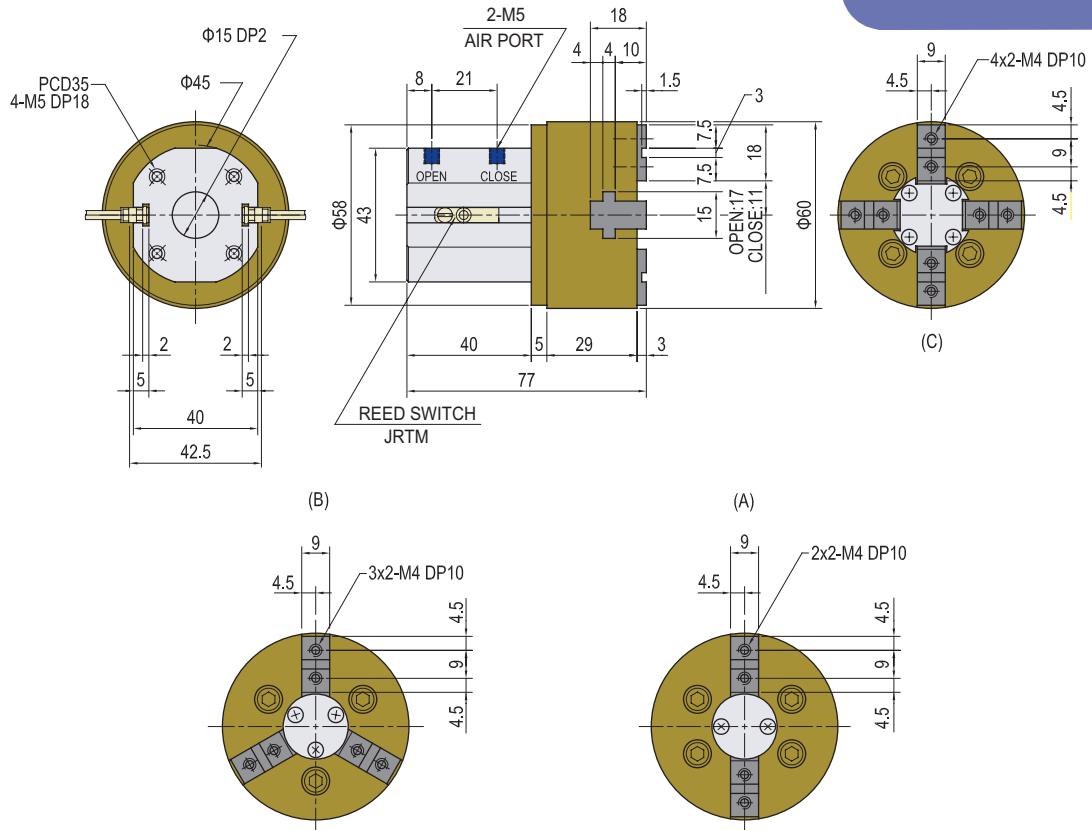


AF26-20

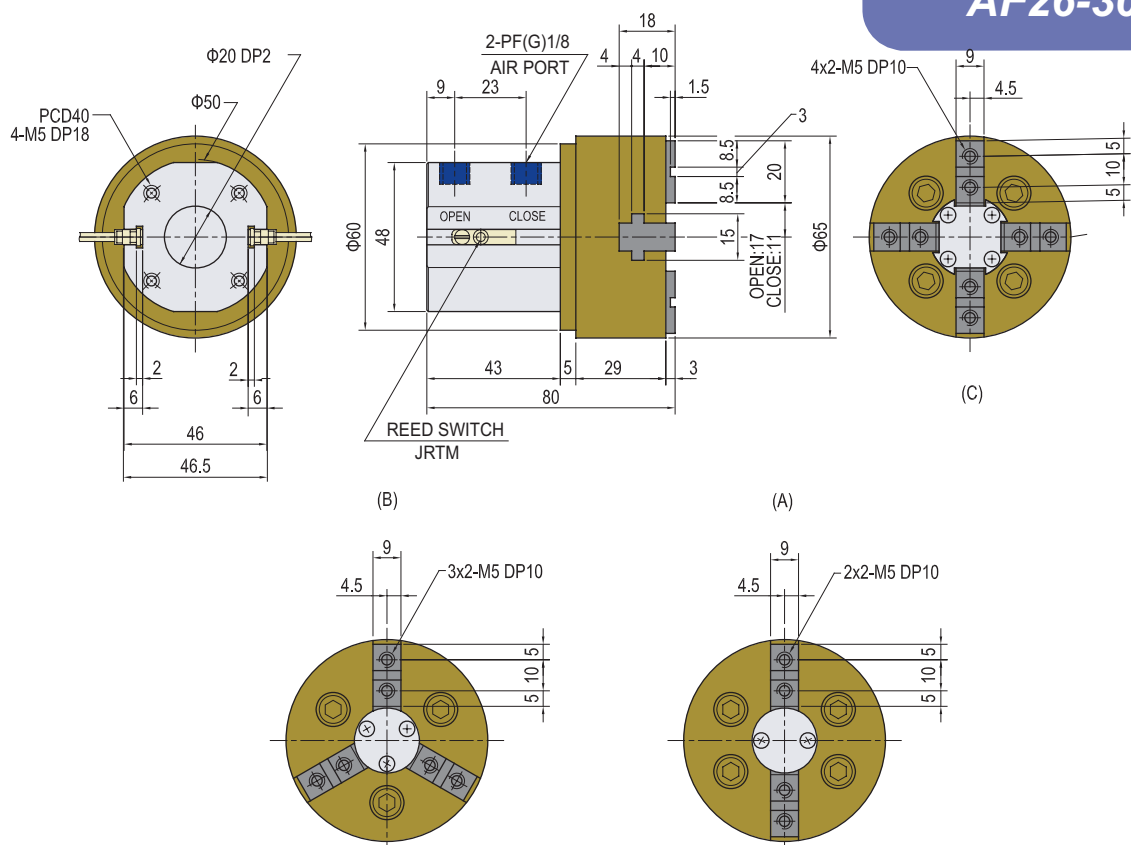


AF26

AF26-25

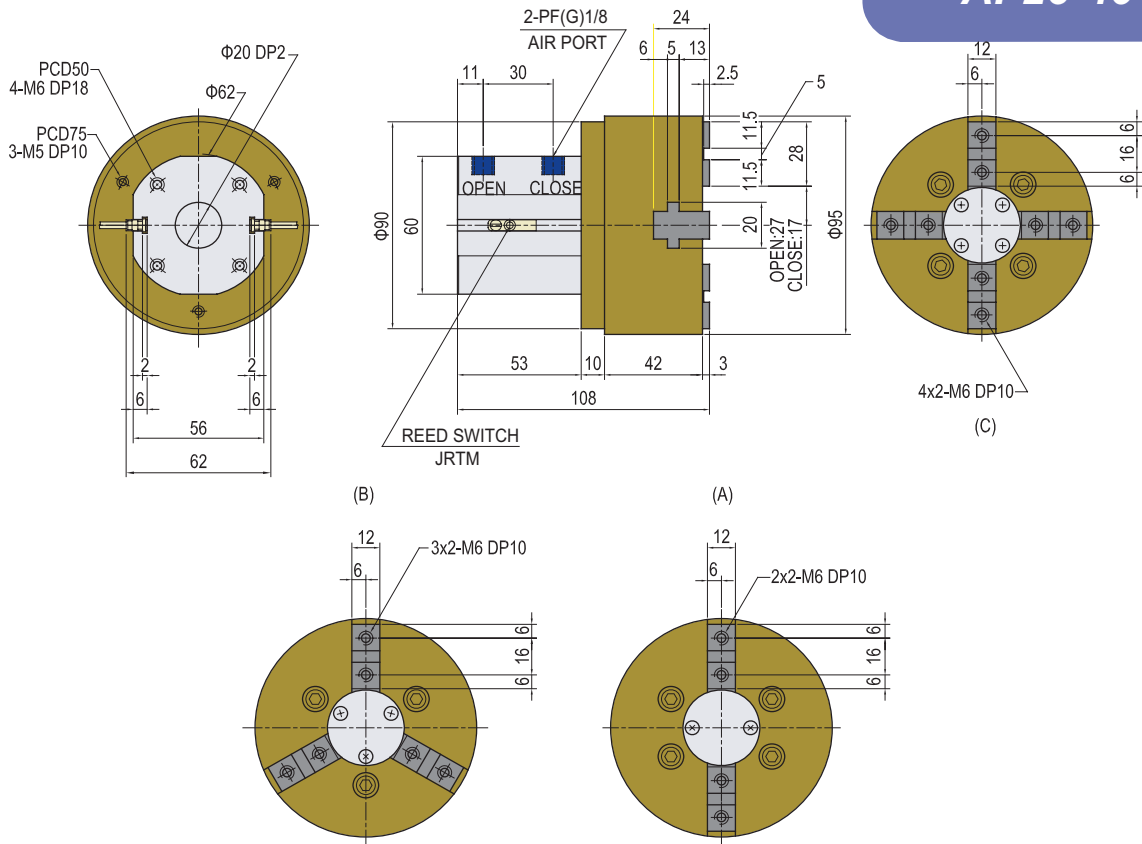


AF26-30

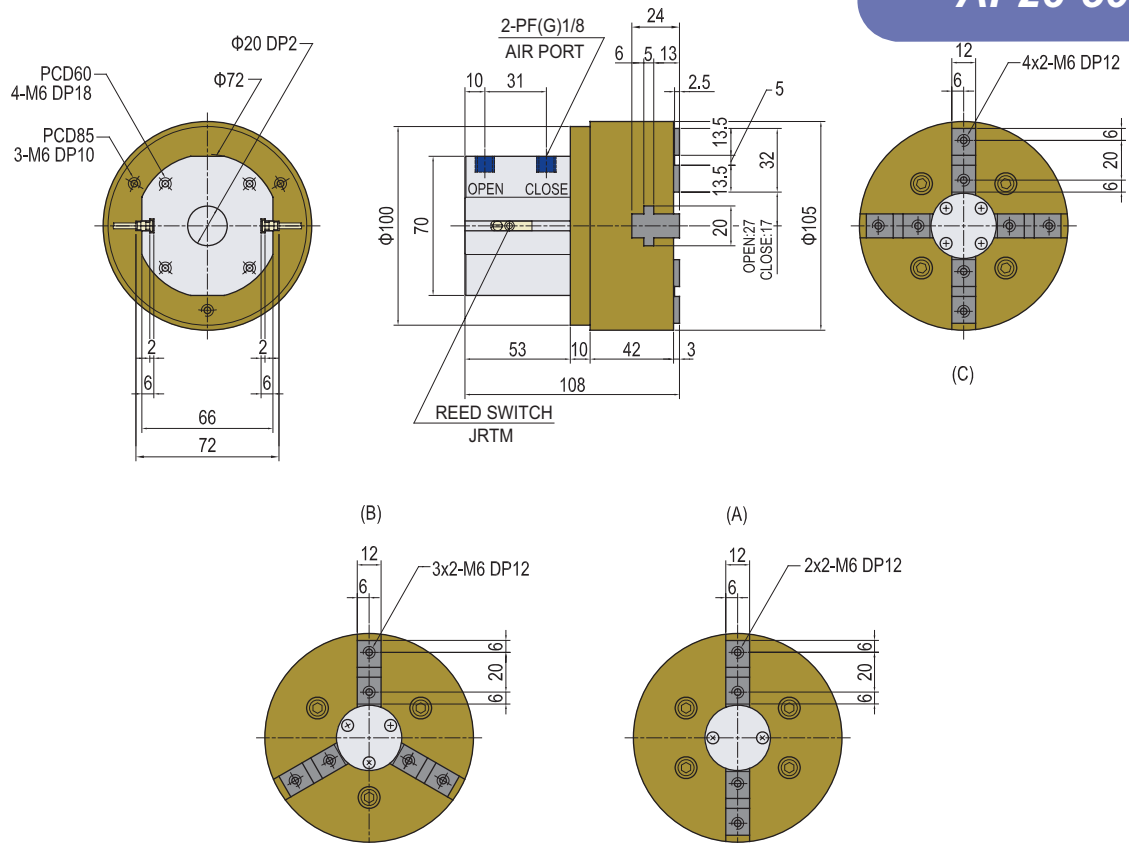


AF26

AF26-40

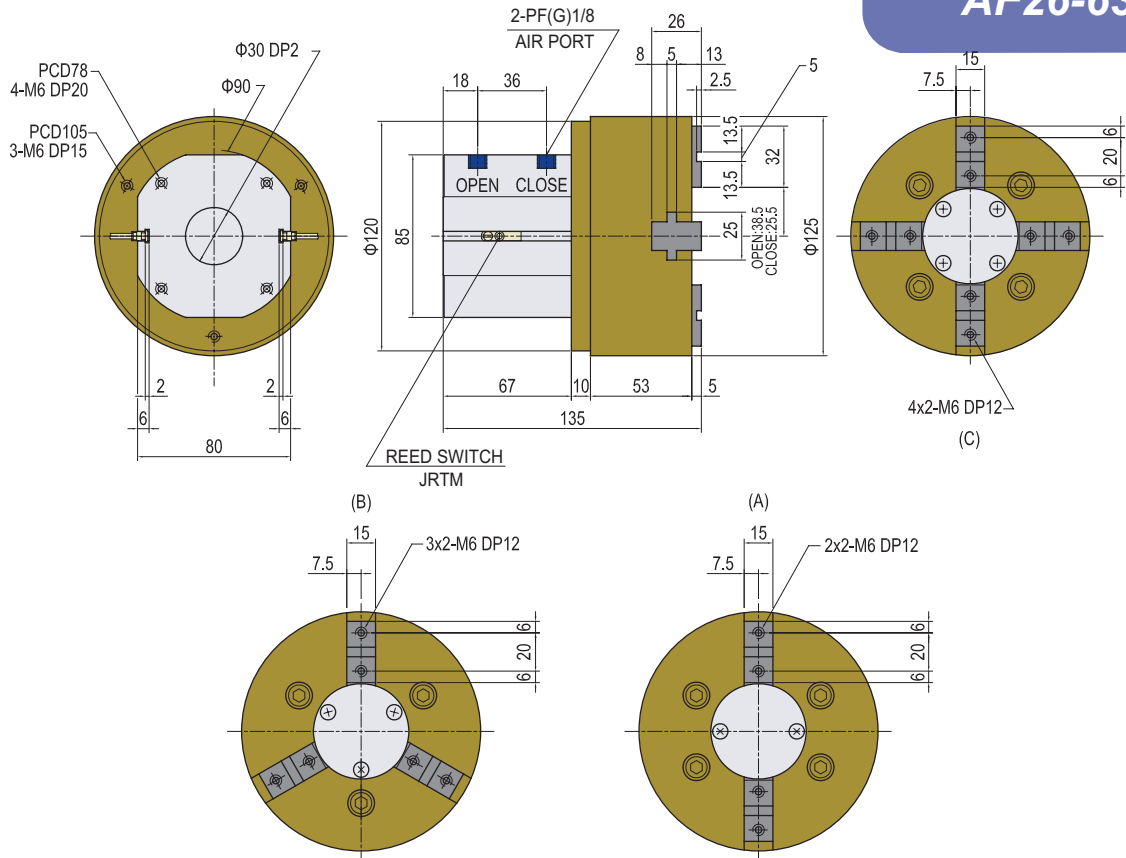


AF26-50

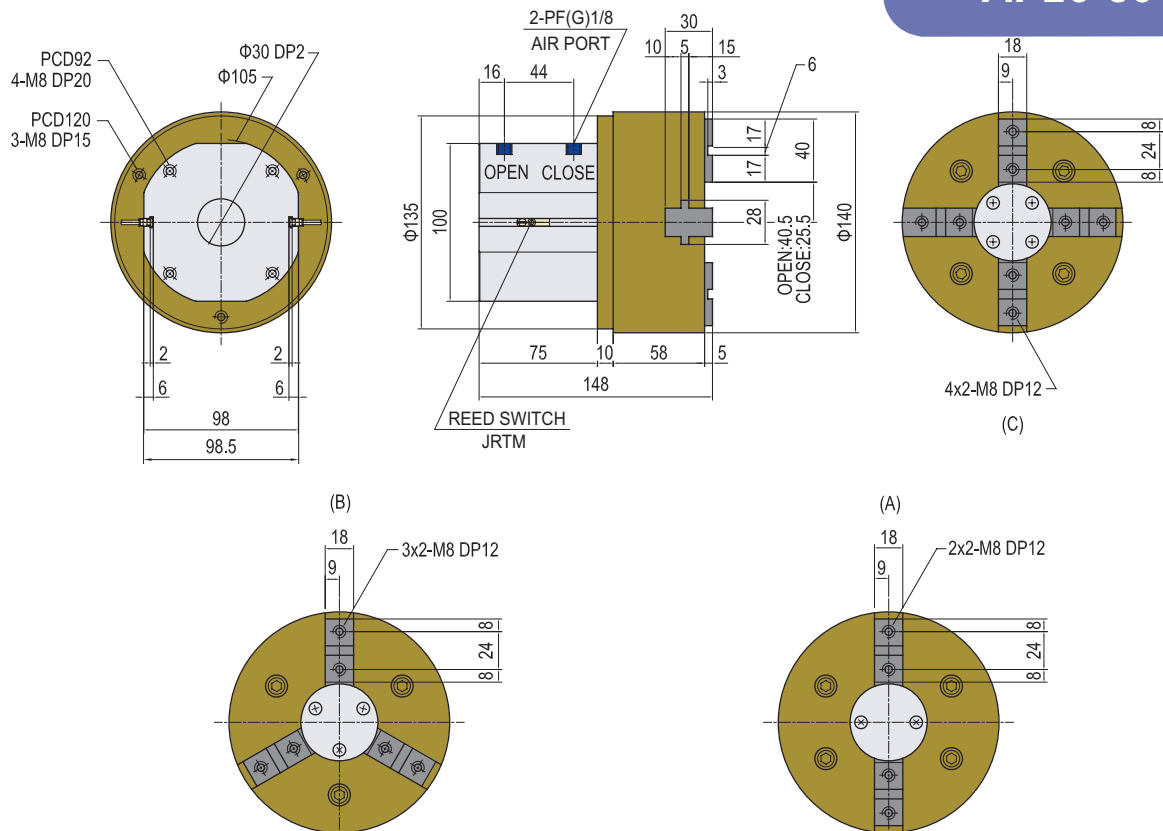


AF26

AF26-63

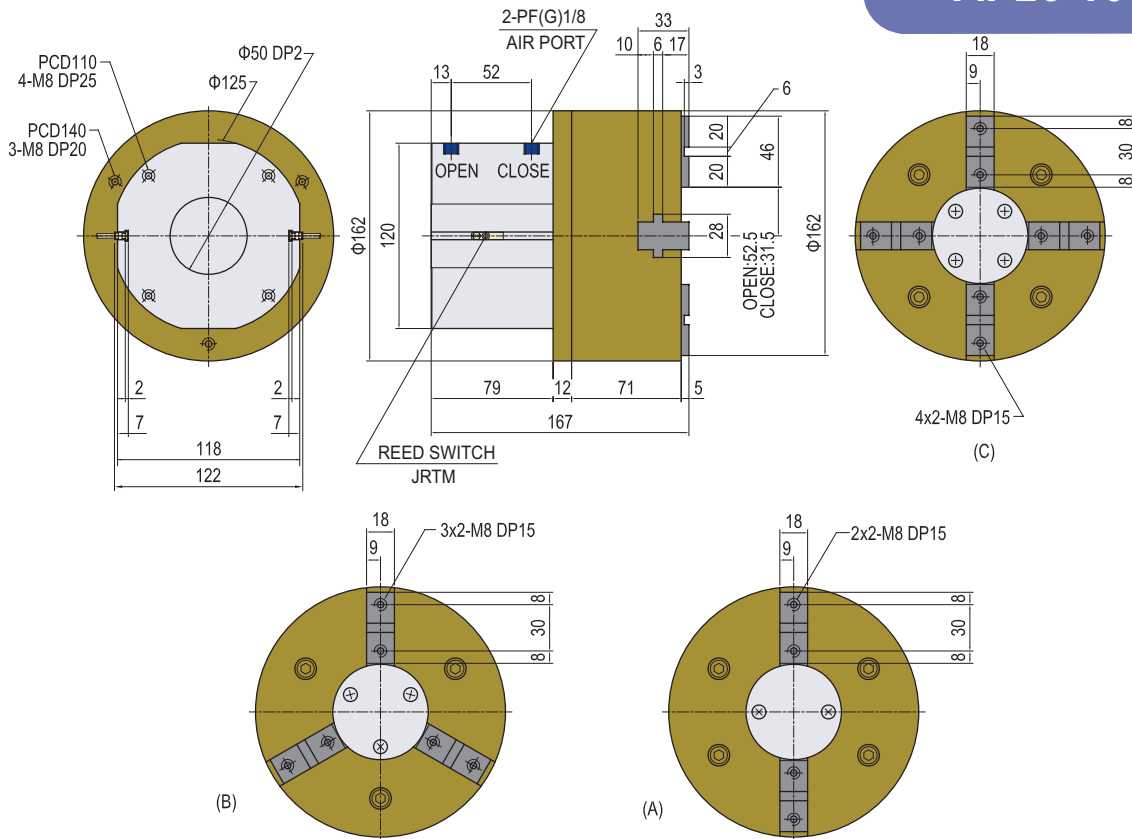


AF26-80



AF26

AF26-100



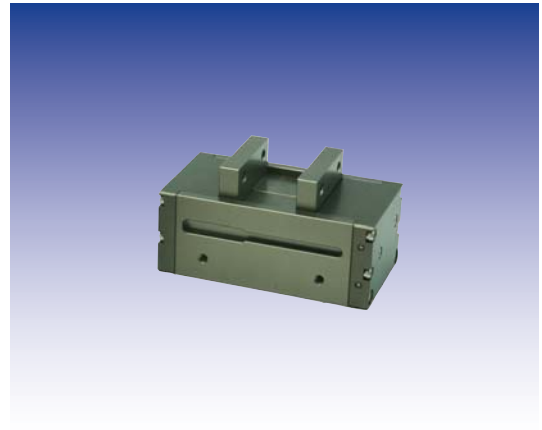
Note

Gripper

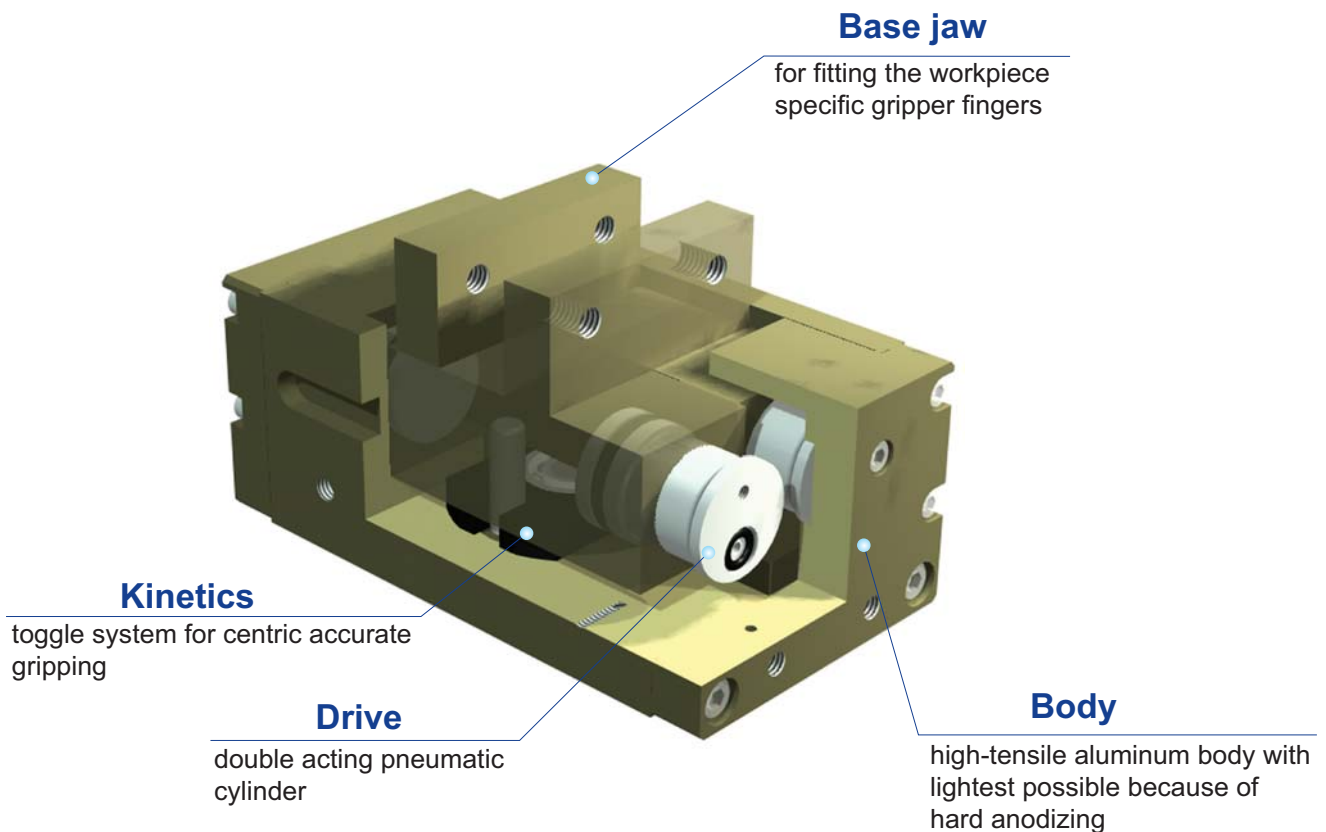
AF28D-10,14,16,20,30

Character

- High gripping forces by the structure of synchronized dual piston
- Body & parts made of aluminium alloy-Compact & Light weight gripper
- A dust cover to prevent coarse particle
- Magnetic sensor is available for open-close sensing

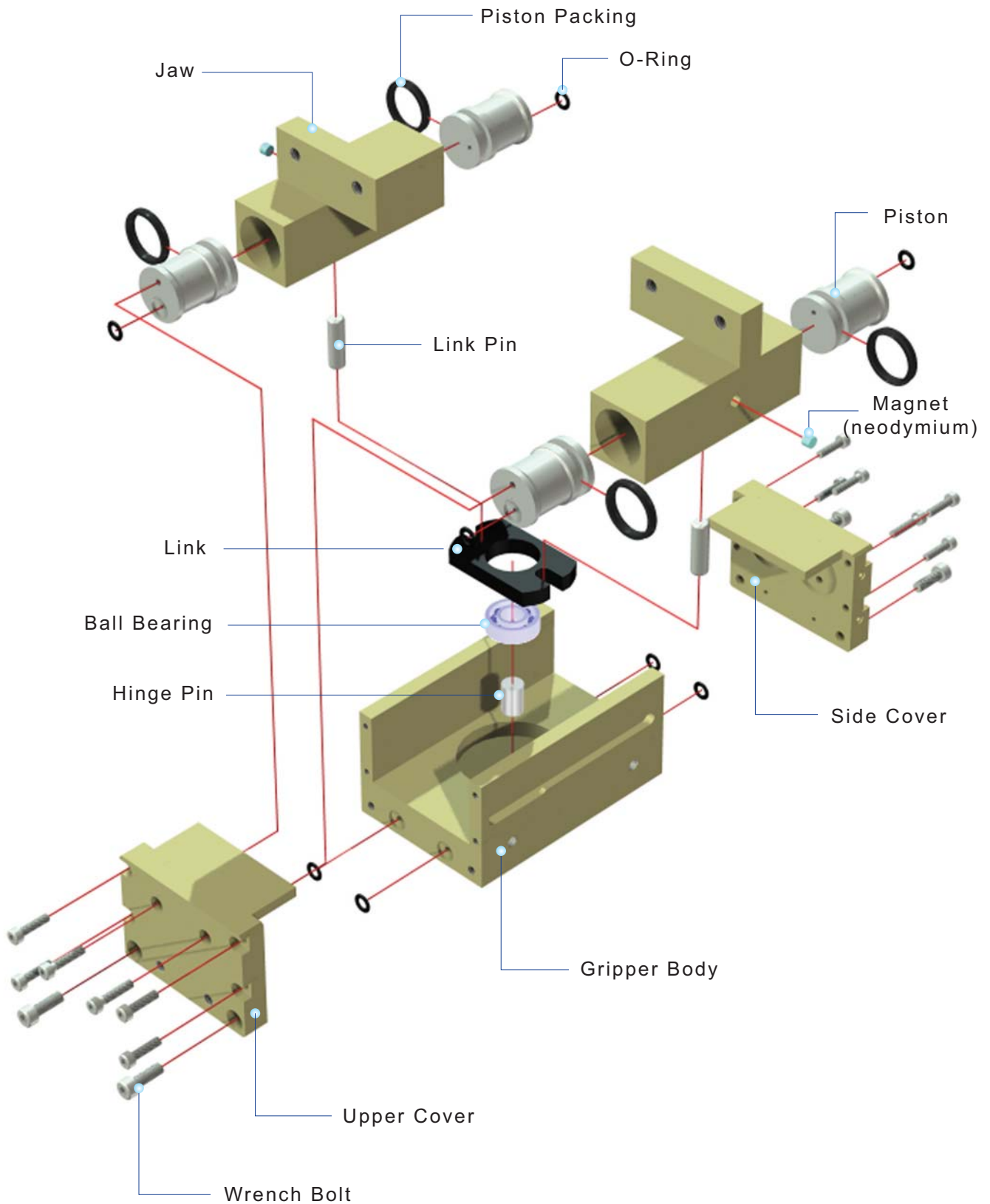


Link lever type



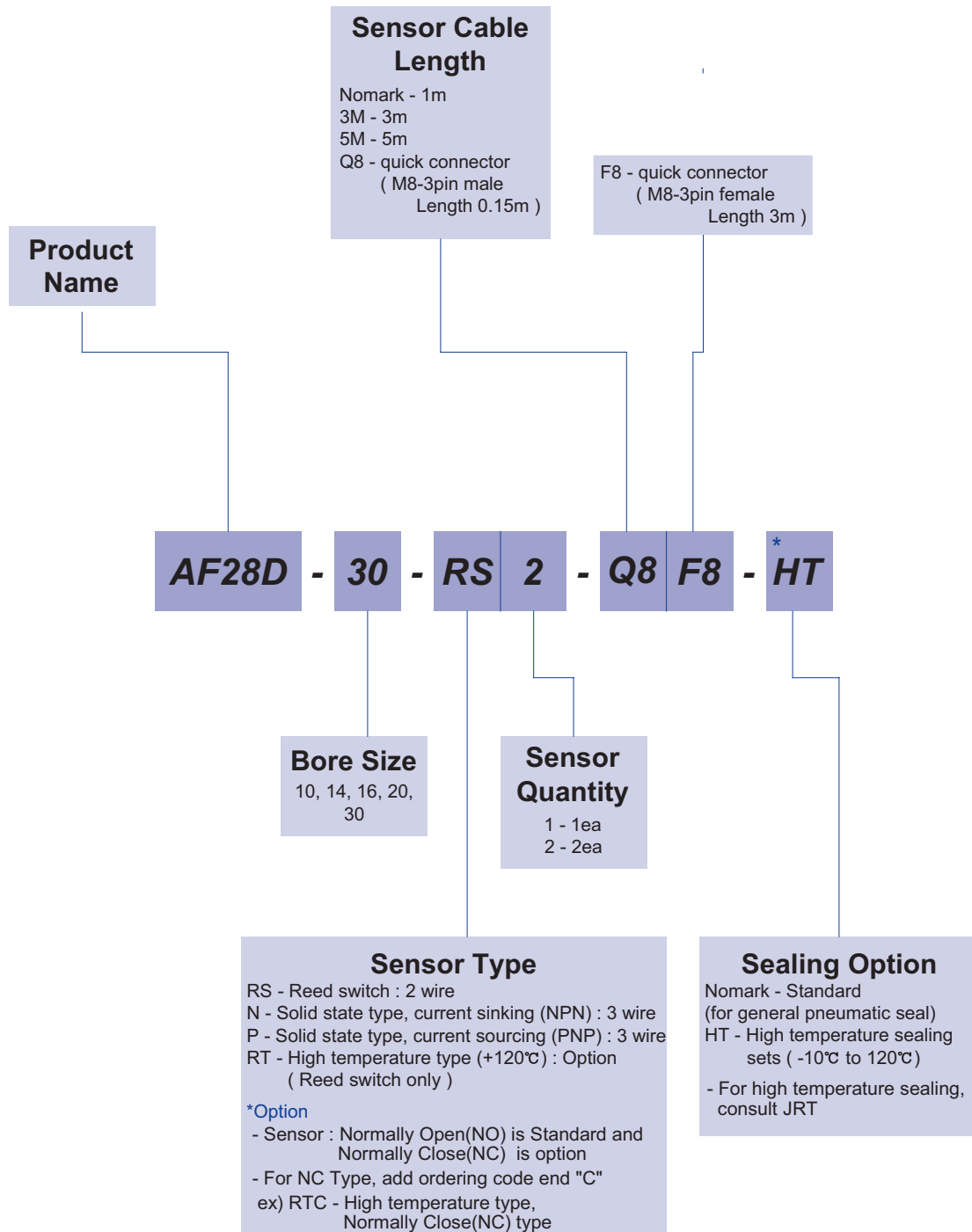
AF28D

Exploded view



AF28D

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF28D

Specification

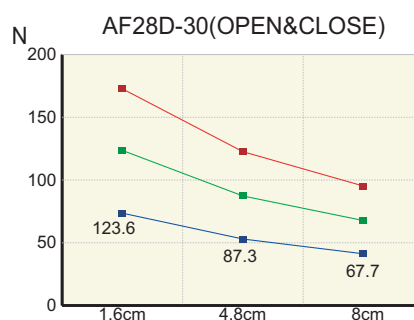
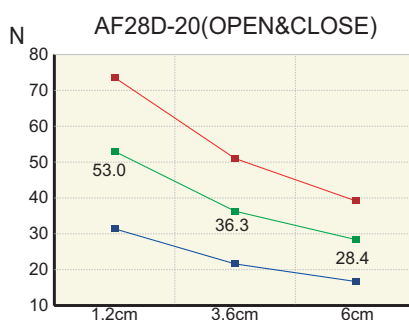
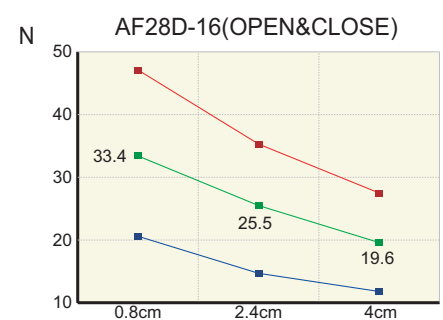
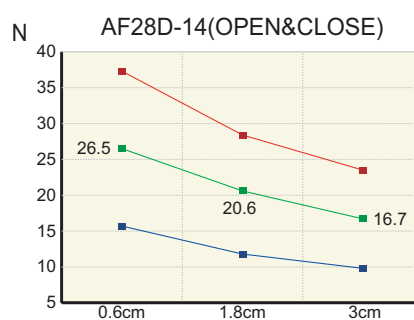
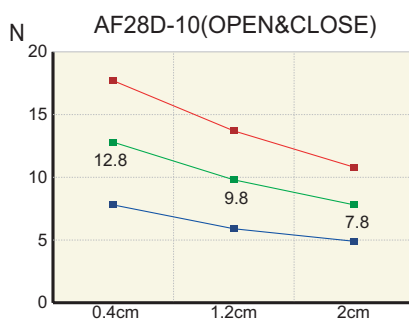
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF28D-10	AF28D-14	AF28D-16	AF28D-20	AF28D-30	Unit
Stroke	15	20	24	30	36	mm
Weight	0.19	0.3	0.42	0.8	1.57	kg
Max. length of attach	20	30	40	60	80	mm
Fitting size	M5	M5	M5	M5	M5	
Gripping force:Open Gripping force:Close	2.85P/ (1+0.039L)	6.28P/ (1+0.03L)	8.14P/ (1+0.026L)	13.44P/ (1+0.023L)	31.00P/ (1+0.016L)	N
Air consumption per cycle	2.4	6.2	9.7	18.8	50.9	cm ³
Closing / Opening time	0.02 / 0.02	0.03 / 0.03	0.03 / 0.03	0.04 / 0.04	0.05 / 0.05	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	60	40	40	
Operating pressure	3~7					bar
Ambient temperature	-5 to 60					°C
Lubrication	Needless					

* After 100 consecutive strokes to end positions

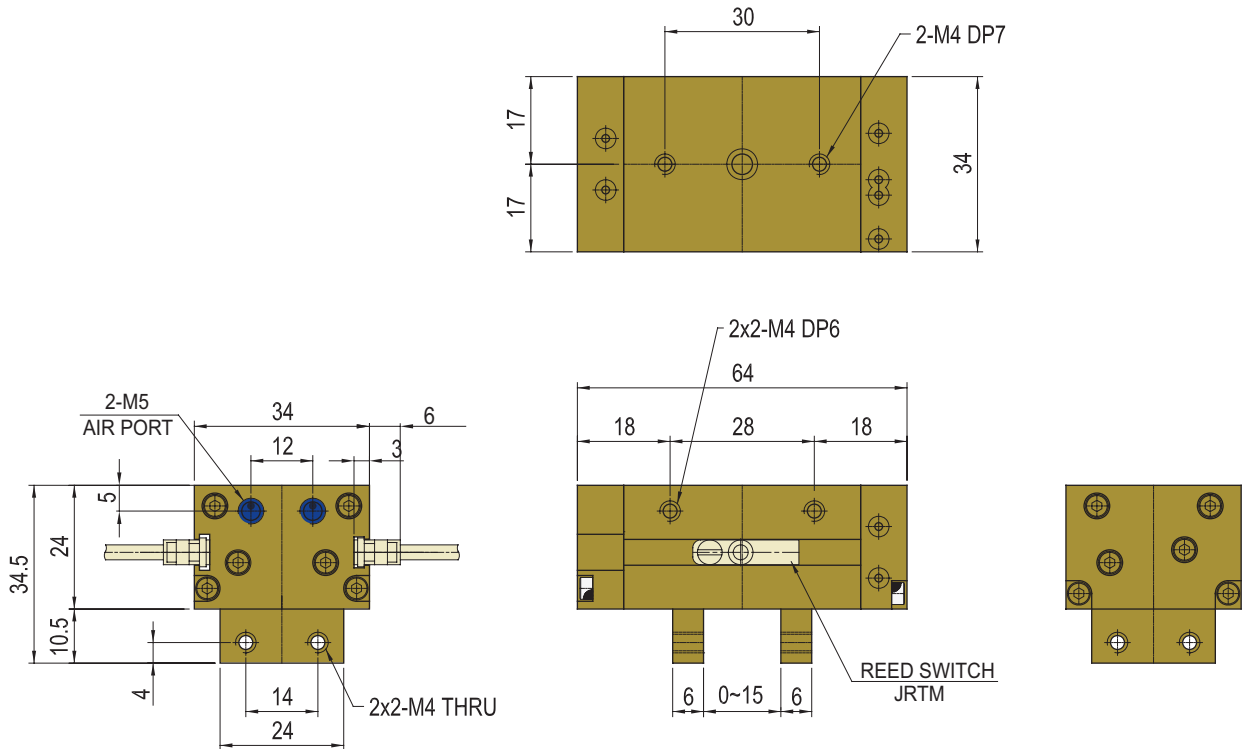
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

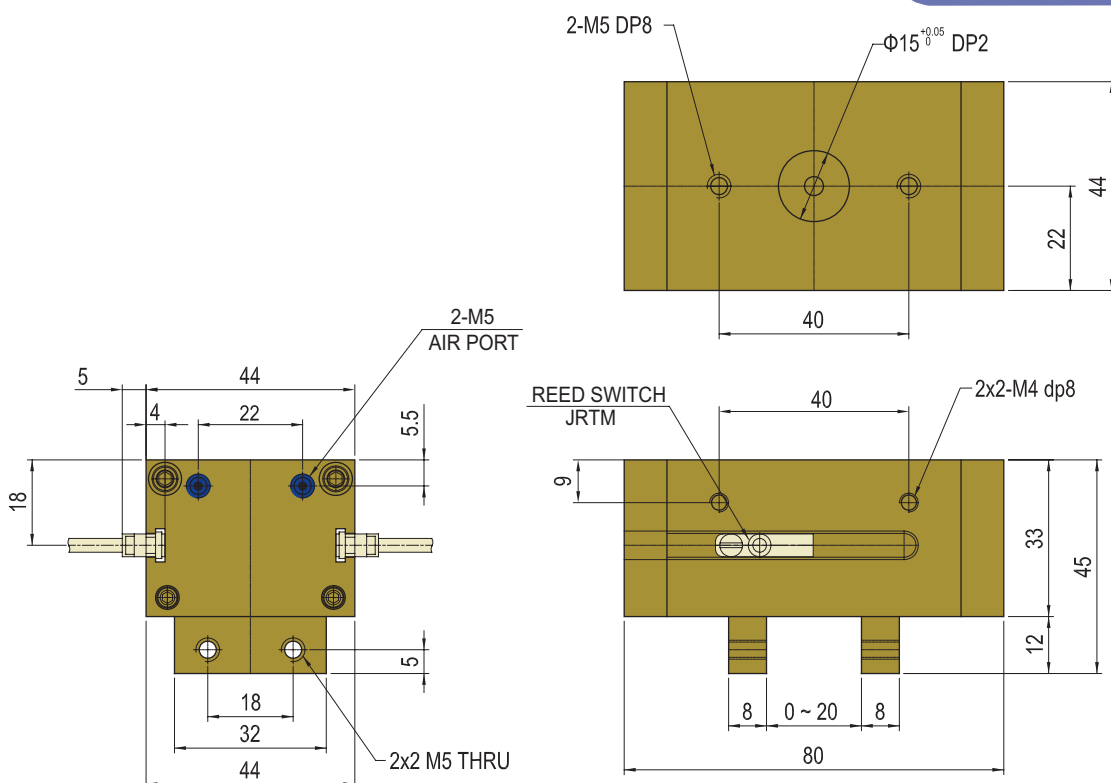


AF28D

AF28D-10

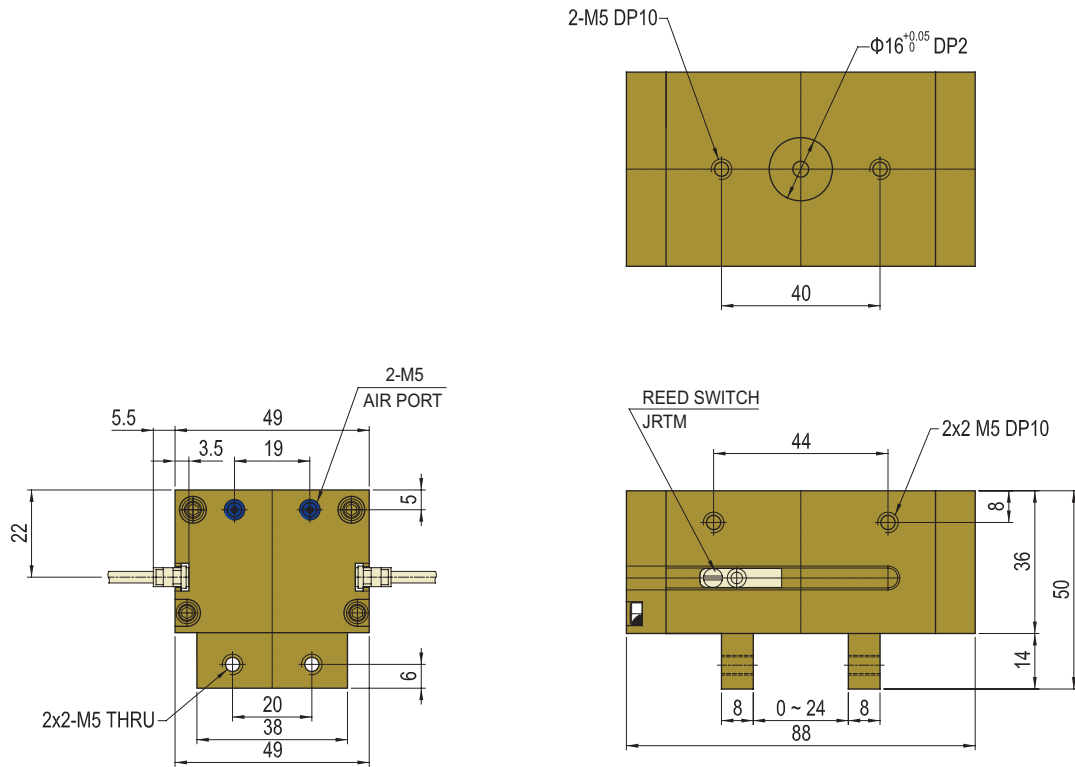


AF28D-14

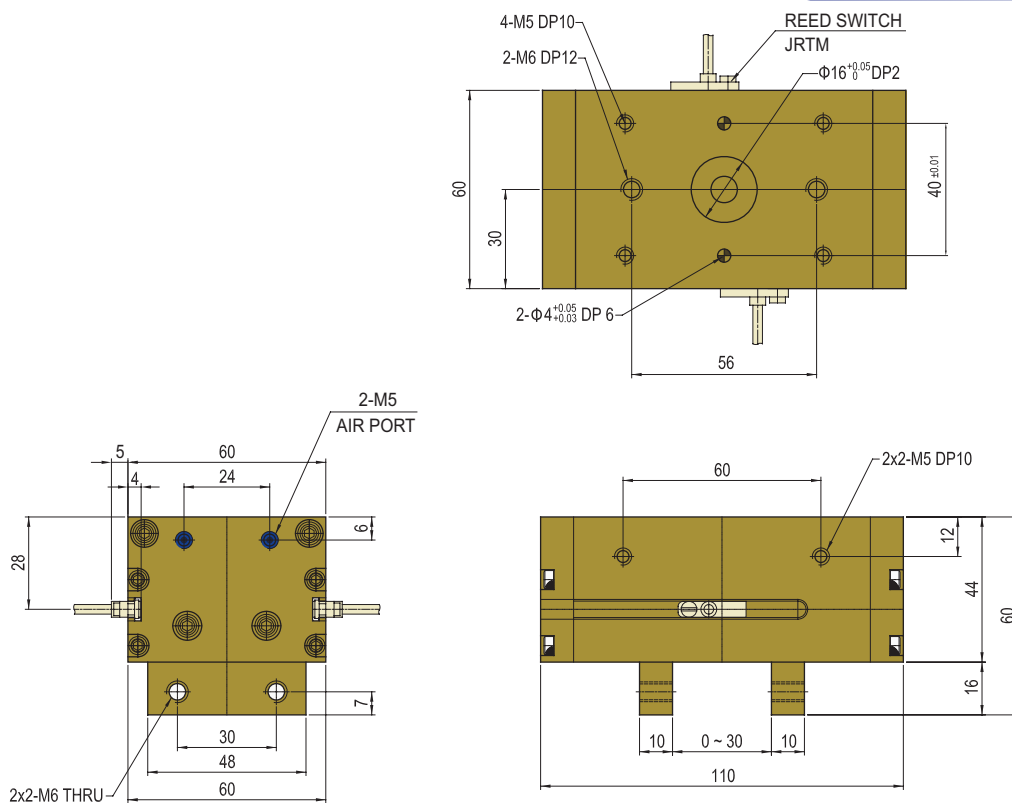


AF28D

AF28D-16

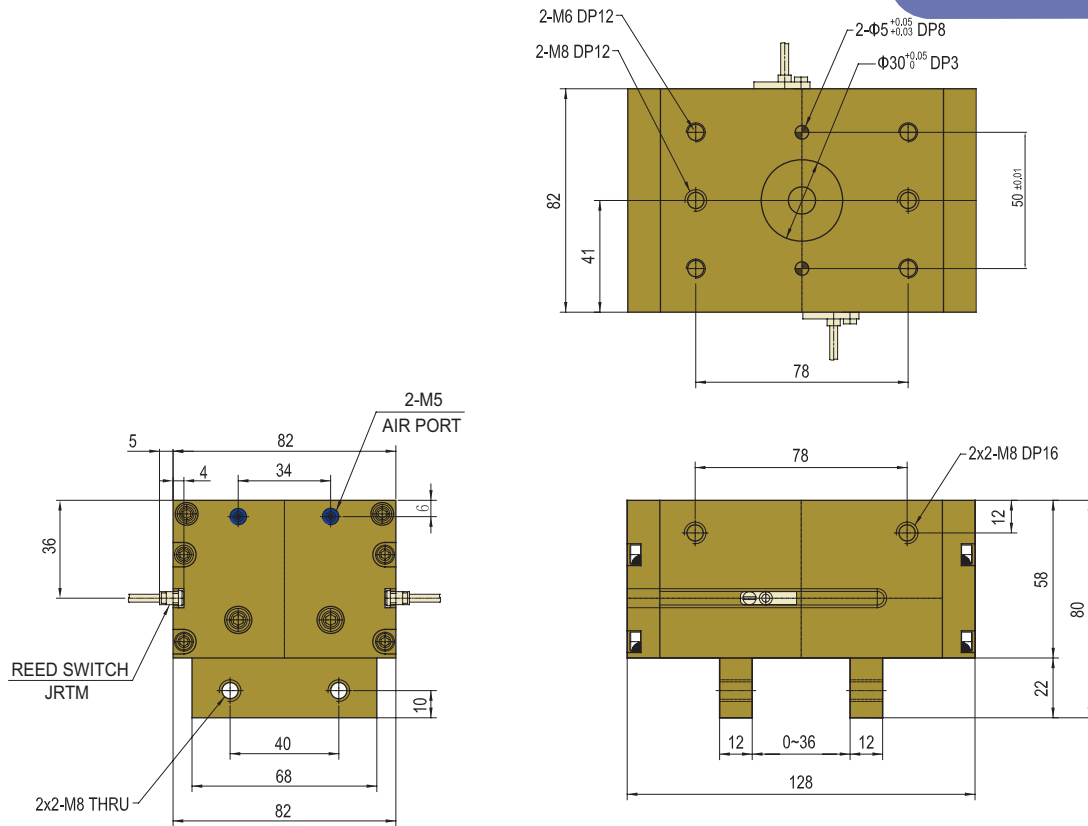


AF28D-20



AF28D

AF28D-30



Note

Notes

A large grid of dashed lines for taking notes. The grid consists of 20 columns and 25 rows of squares, with rounded corners on the top and bottom edges. The lines are thin and grey, creating a clean and professional appearance.

Gripper

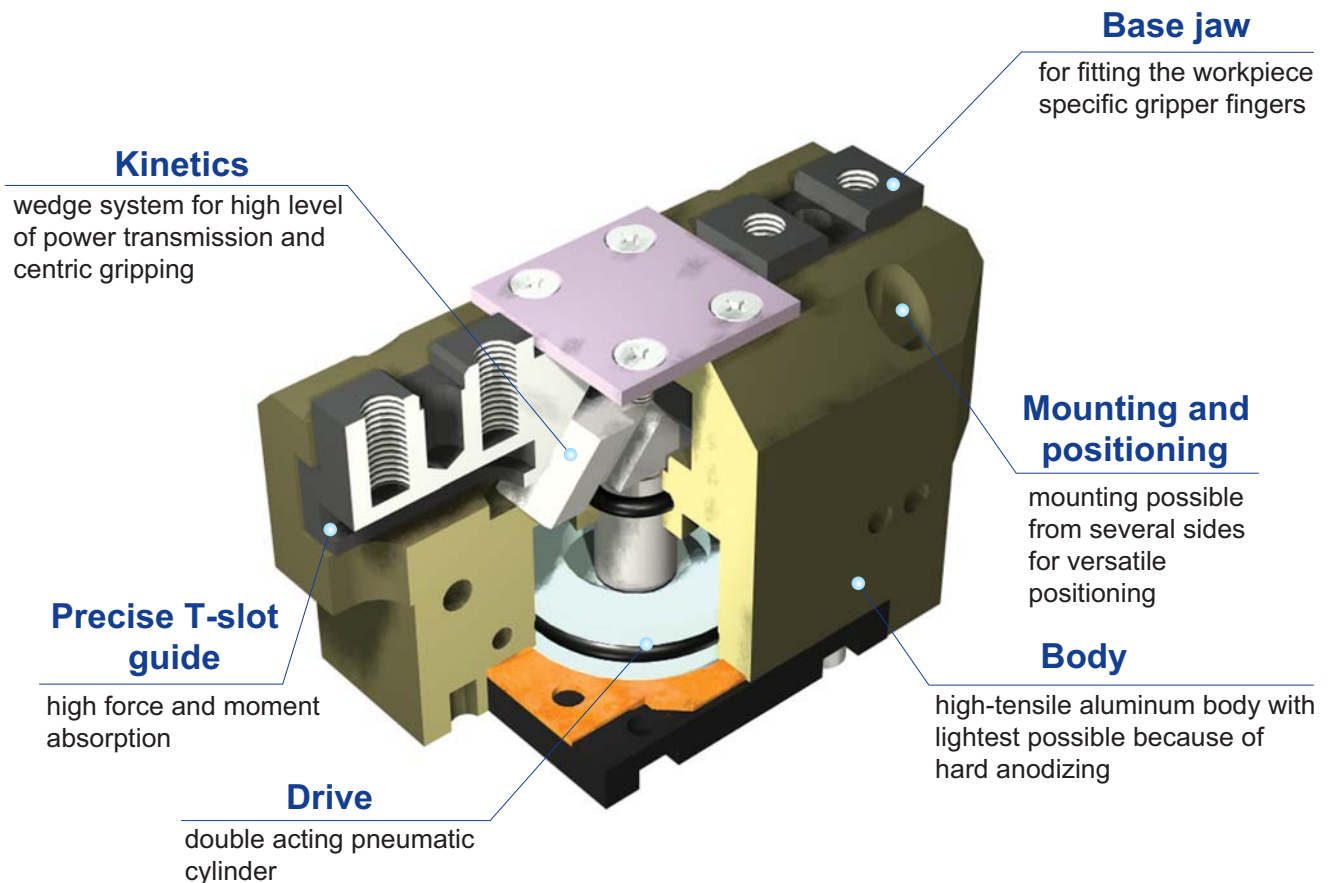
AF30-20,25,30,40,50,63,90,125

Character

- Compact structure by wedge guide driving unit
- Location pin hole at an each mounting side
- Possible to use without the supply tube when you use back side support port(BP option)
- Proximity sensor is available for open-close sensing

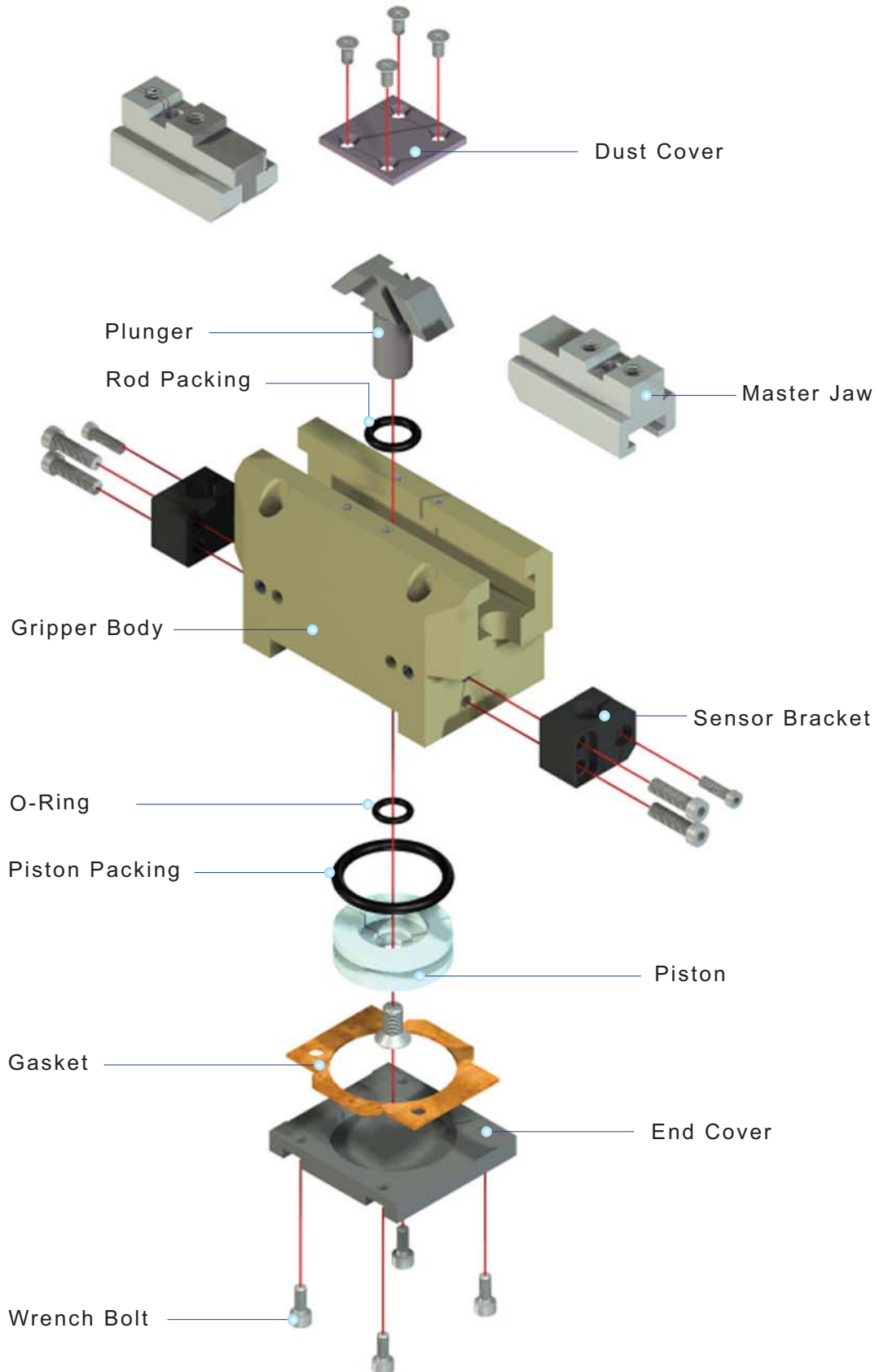


Wedge type



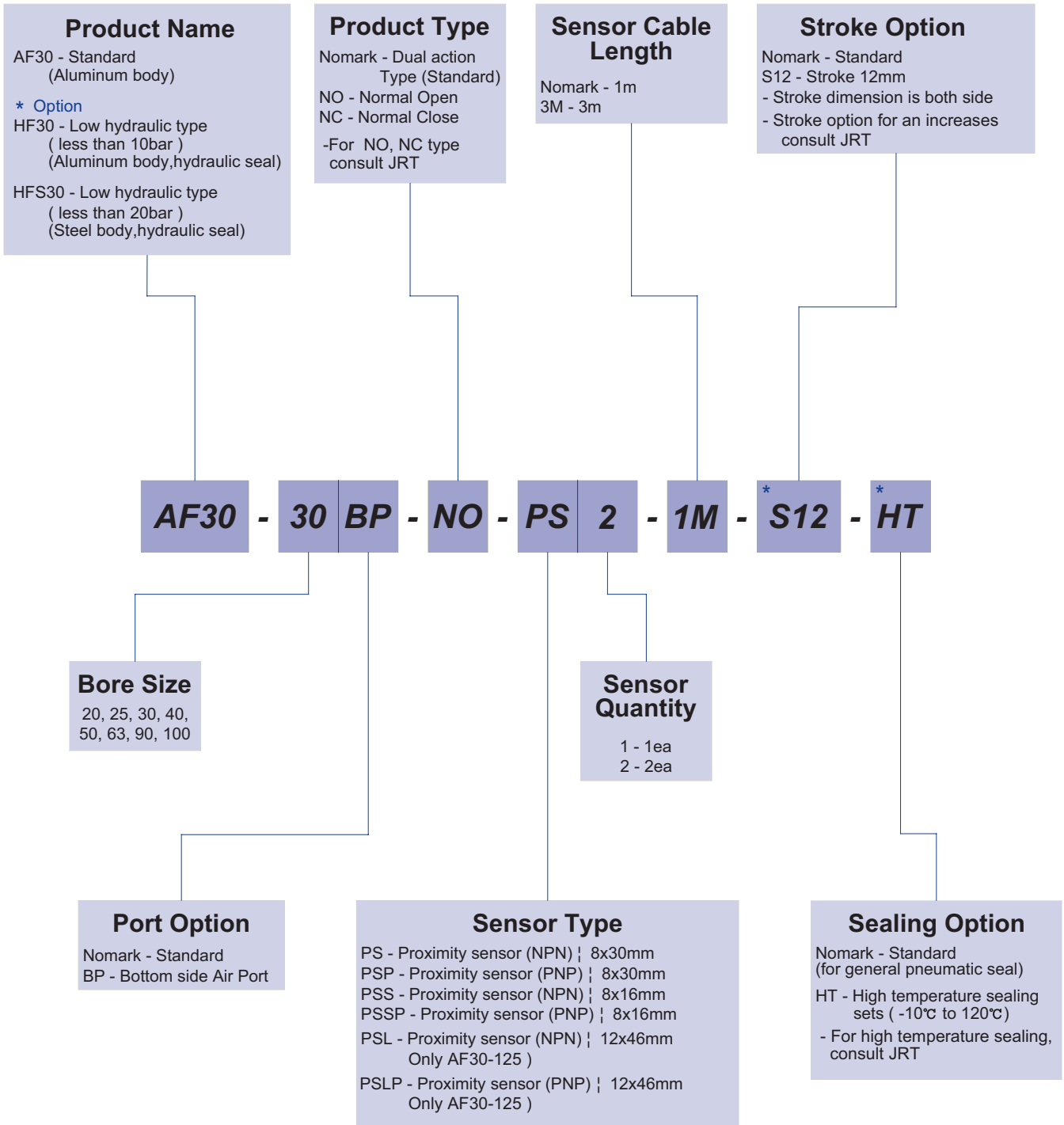
AF30

Exploded view



AF30

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF30

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF30-20	AF30-25	AF30-30	AF30-40	Unit
Stroke	8	12	16	20	mm
Weight	0.14	0.3	0.47	0.81	kg
Max. length of attach	50	50	50	50	mm
Fitting size	M5	M5	M5	PF(G) 1/8	
Gripping force:Open	28.45P/(1+0.16L)	43.16P/(1+0.12L)	62.78P/(1+0.09L)	112.82P/(1+0.07L)	N
Gripping force:Close	25.51P/(1+0.16L)	39.24P/(1+0.12L)	55.92P/(1+0.09L)	99.08P/(1+0.07L)	
Air consumption per cycle	3.5	7.0	13.4	30.7	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.02 / 0.02	0.04 / 0.04	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	50	50	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

P=Air Pressure[bar] , L=Exertion length[mm]

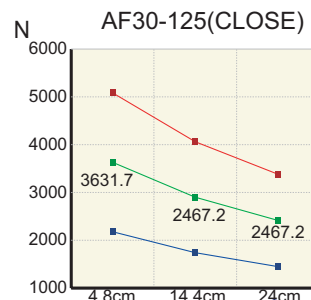
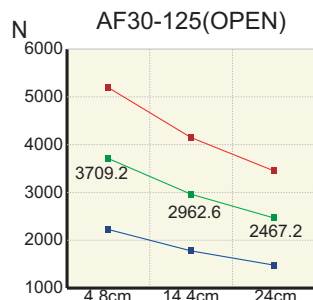
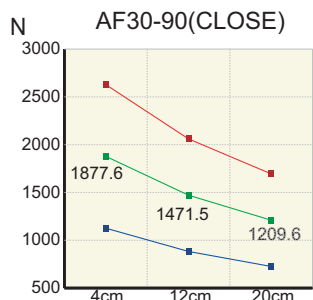
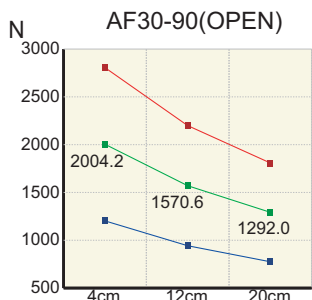
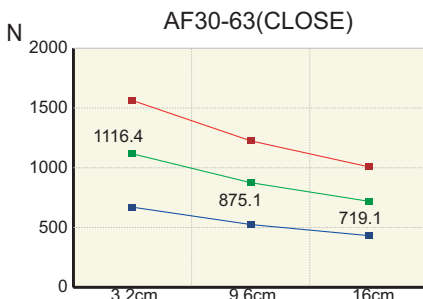
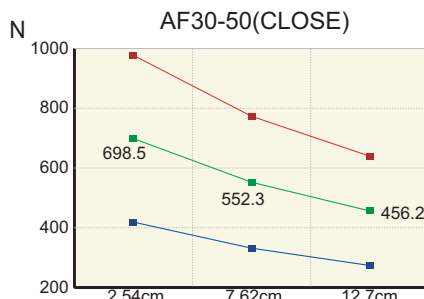
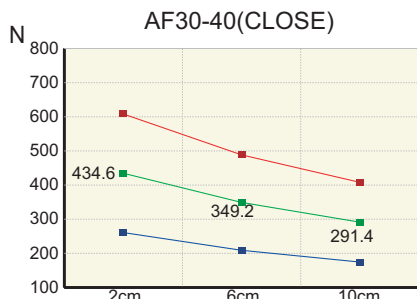
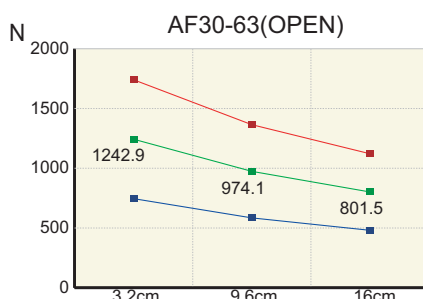
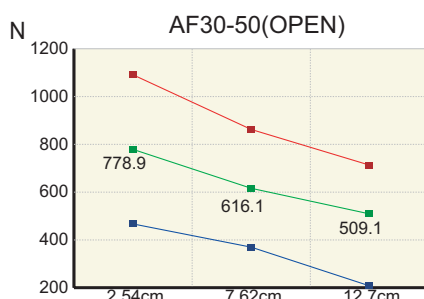
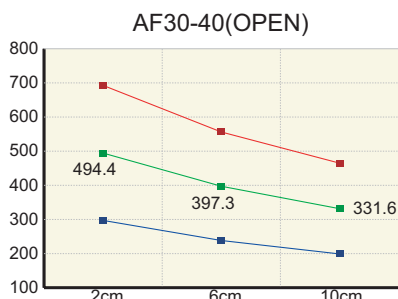
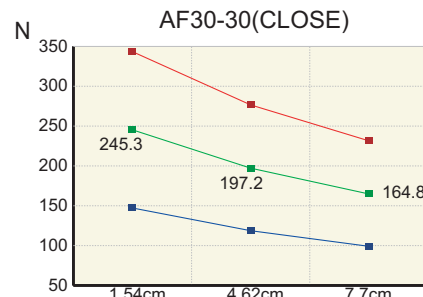
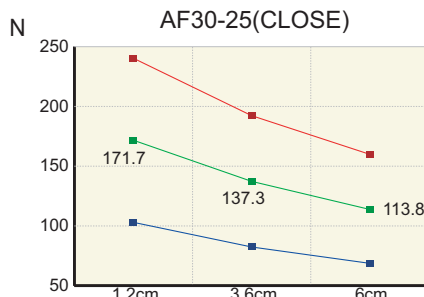
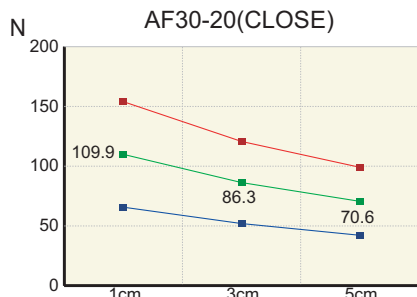
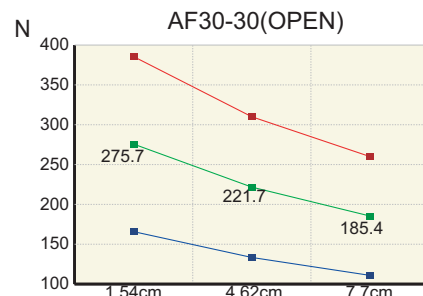
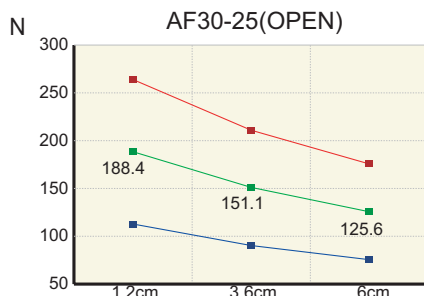
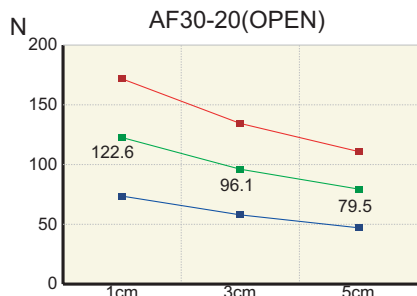
Products Name	AF30-50	AF30-63	AF30-90	AF30-125	Unit
Stroke	26	32	50	70	mm
Weight	1.37	2.6	4.8	13.9	kg
Max. length of attach	50	50	50	50	mm
Fitting size	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	PF(G) 1/4	
Gripping force:Open	179.52P/(1+0.06L)	288.41P/(1+0.05L)	464.99P/(1+0.04L)	848.57P/(1+0.03L)	N
Gripping force:Close	160.88P/(1+0.06L)	258.98P/(1+0.05L)	435.56P/(1+0.04L)	830.91P/(1+0.03L)	
Air consumption per cycle	59.6	118.4	305.8	978.6	cm ³
Closing / Opening time	0.06 / 0.06	0.12 / 0.12	0.3 / 0.3	1.0 / 1.0	sec
* Repeat accuracy	0.02	0.02	0.02	0.02	mm
Max.cycle per minute	40	40	30	20	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

AF30

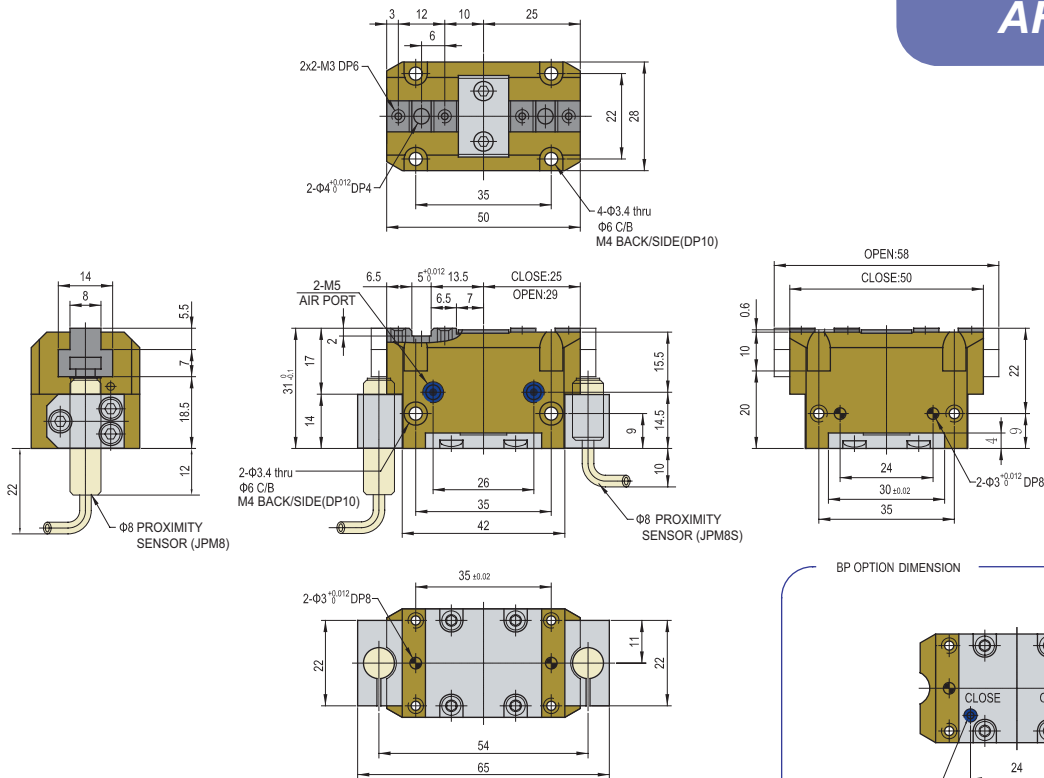
Gripping Force per exertion length

Legend : —■— 7[bar] —■— 5[bar] —■— 3[bar]

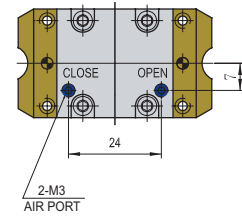


AF30

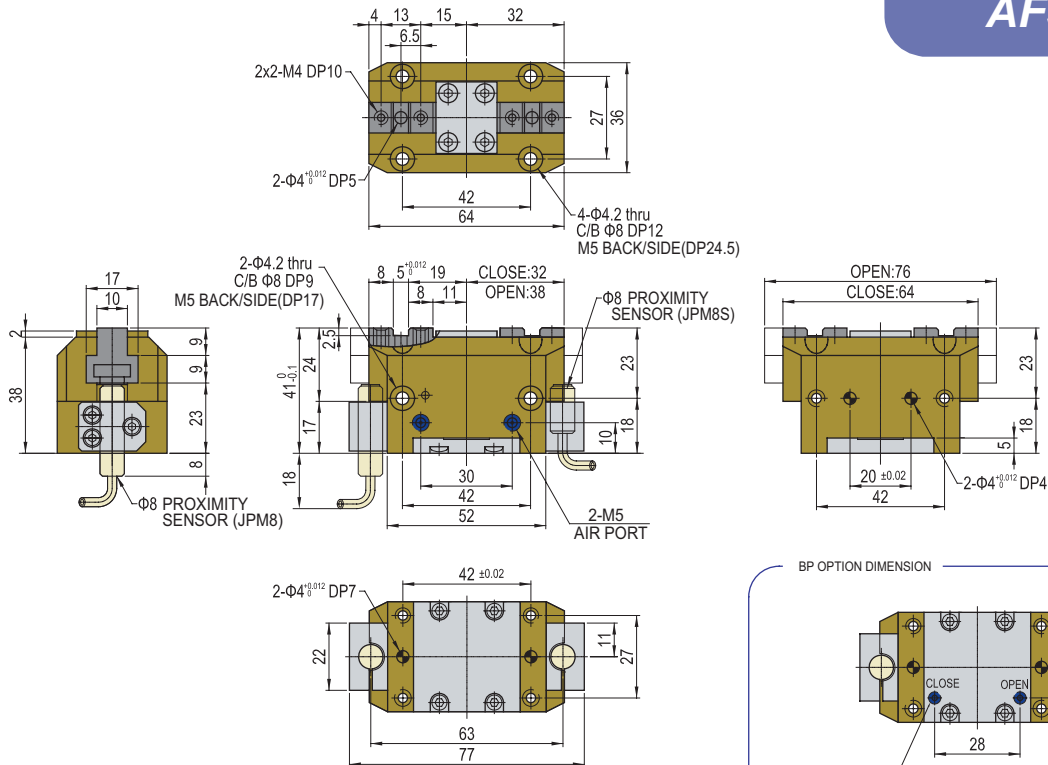
AF30-20



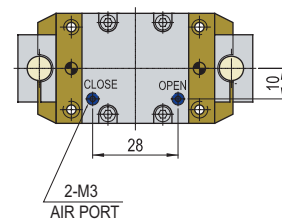
BP OPTION DIMENSION



AF30-25

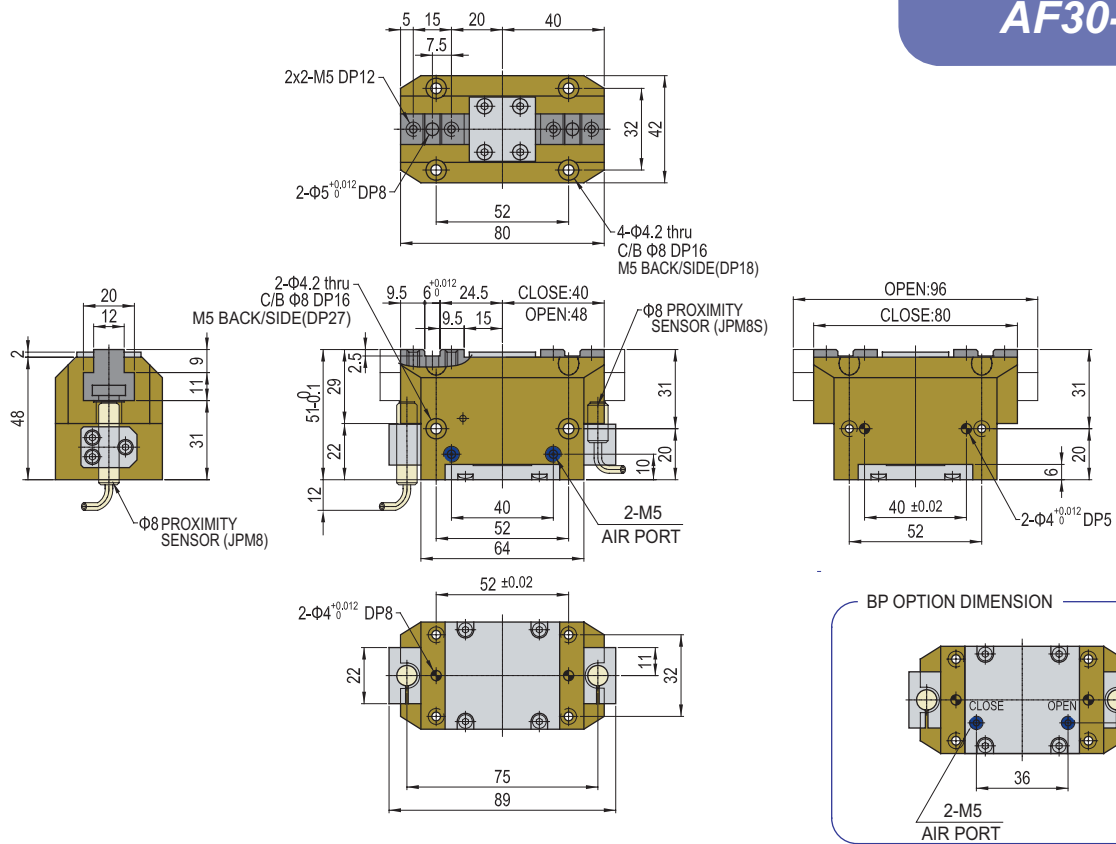


BP OPTION DIMENSION

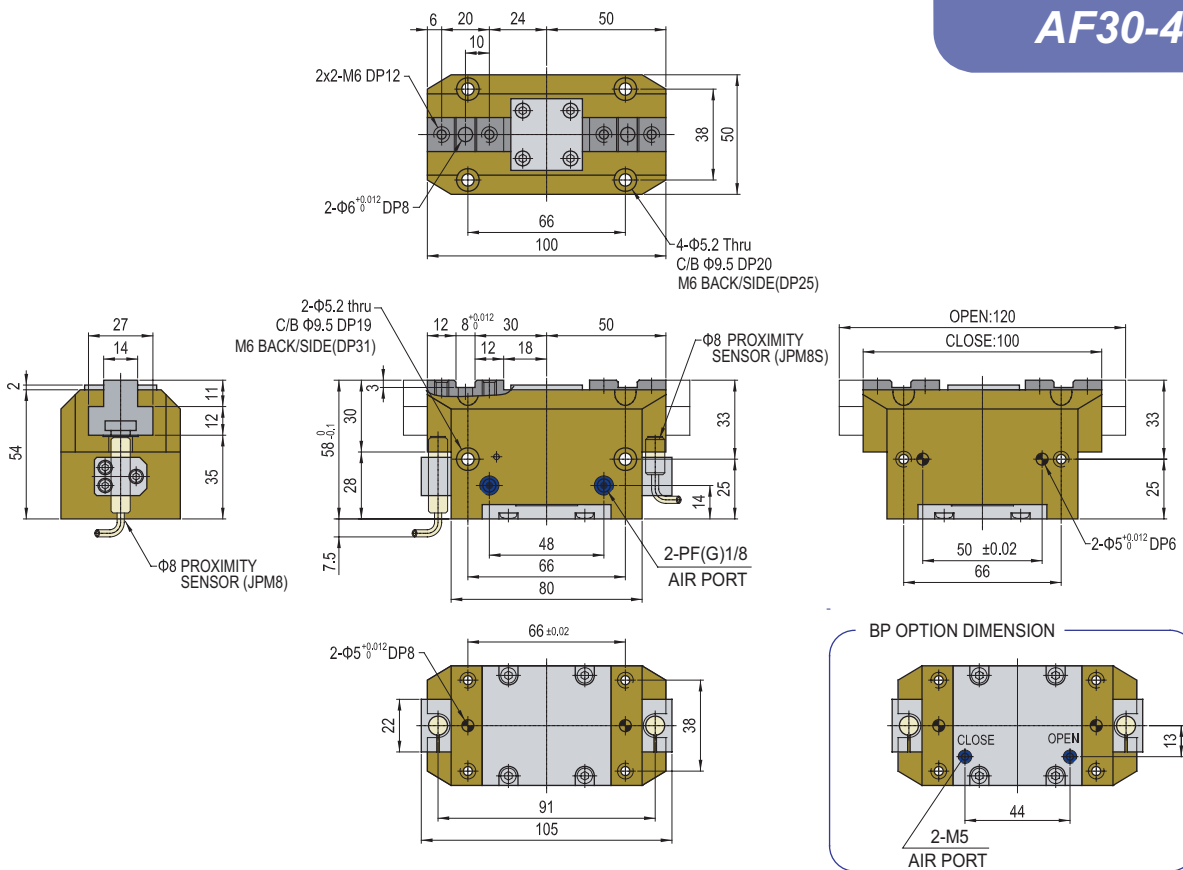


AF30

AF30-30

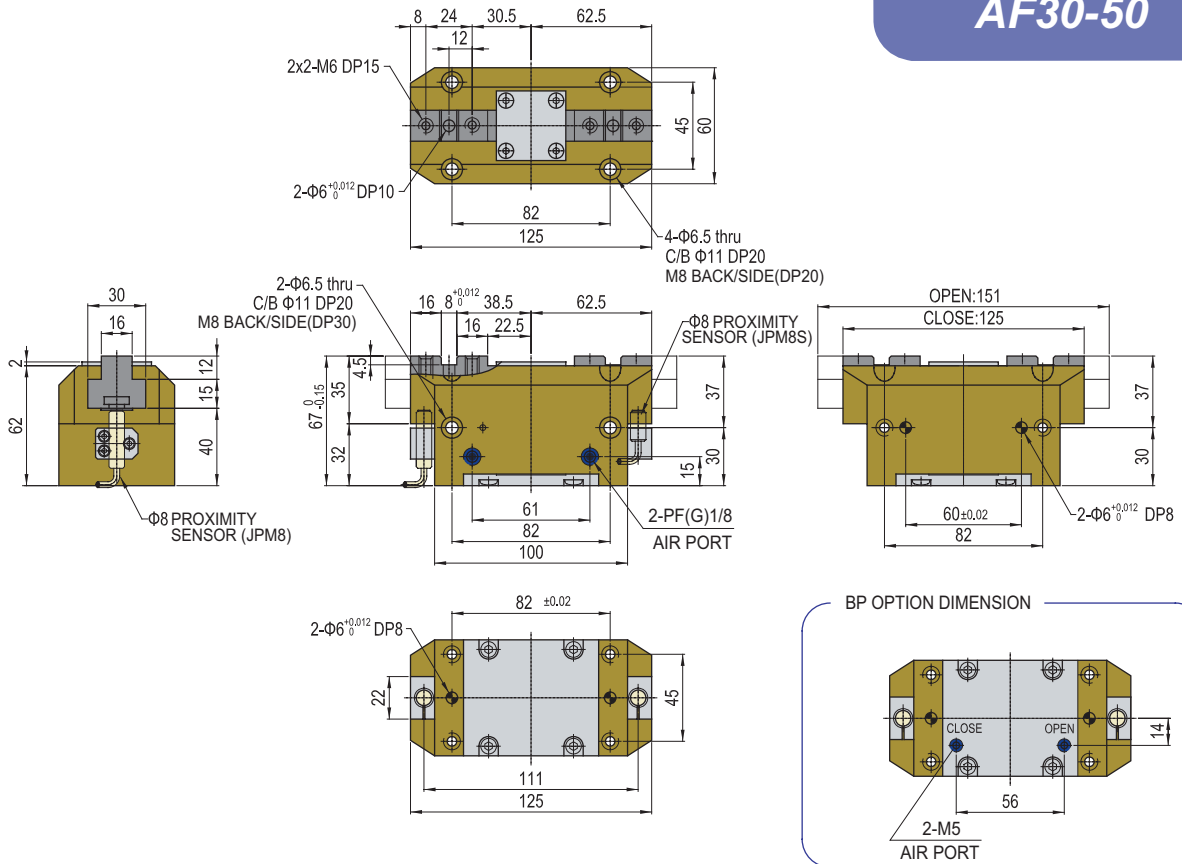


AF30-40

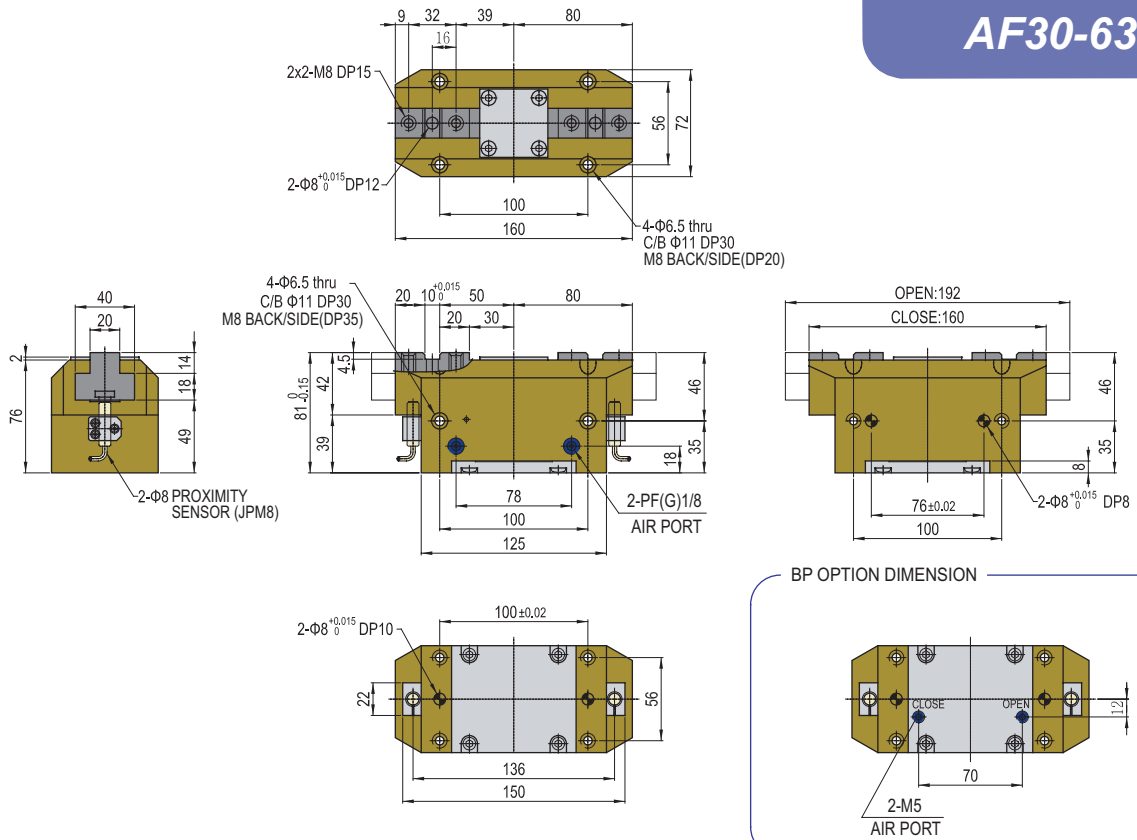


AF30

AF30-50

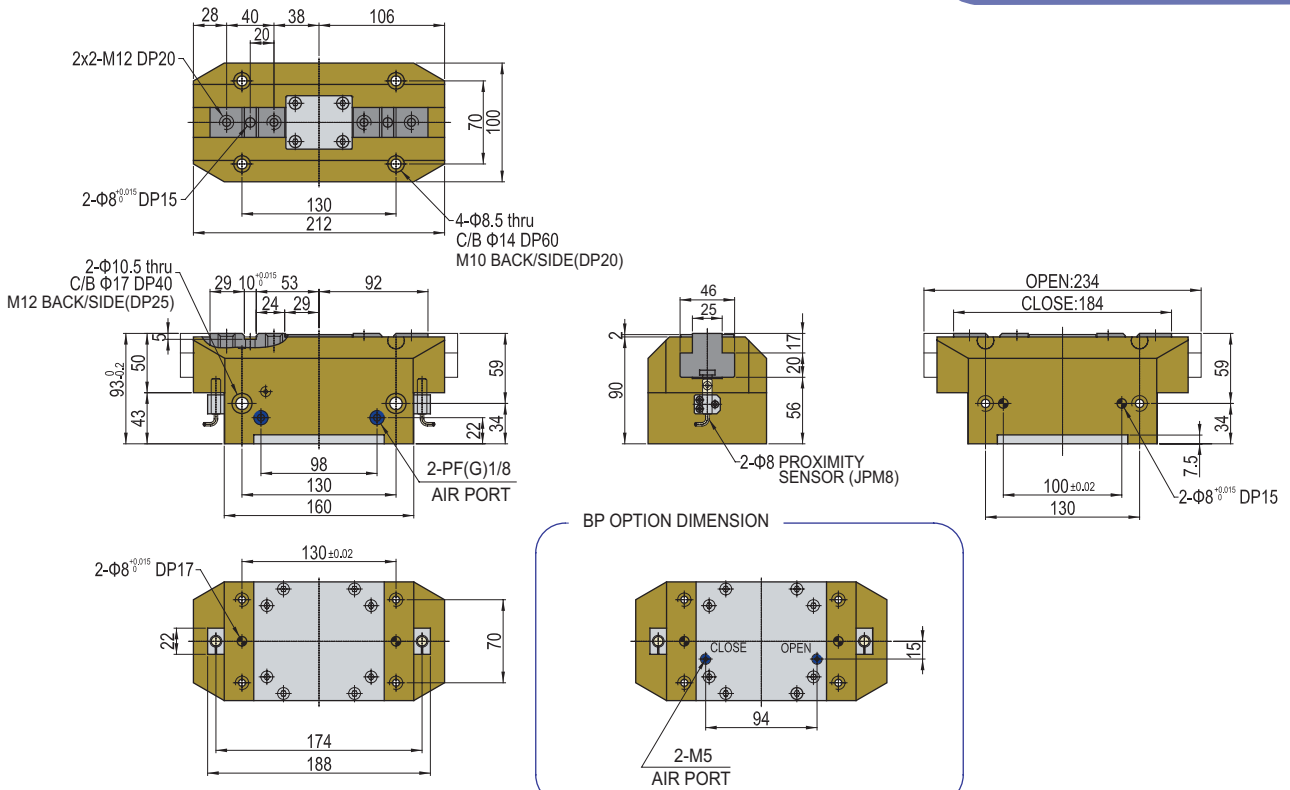


AF30-63

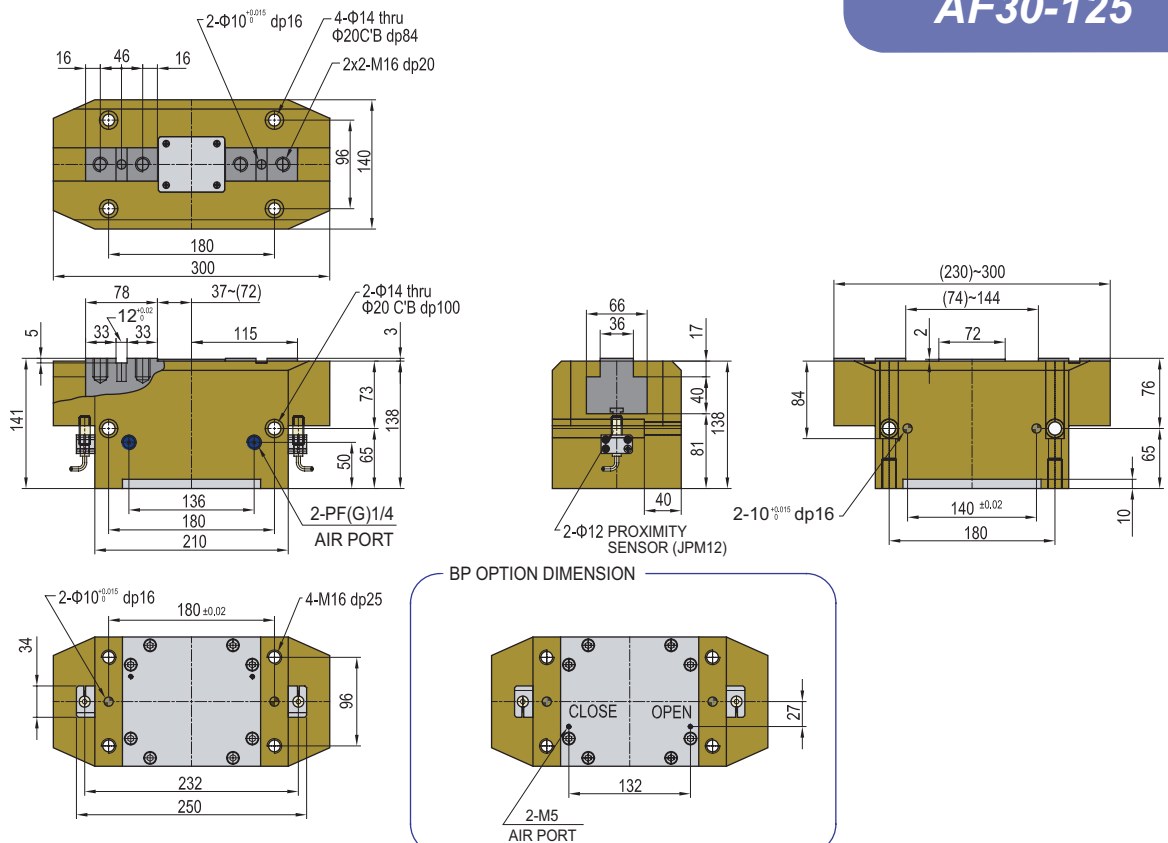


AF30

AF30-90



AF30-125



Notes

A large grid of 20 columns and 20 rows of dashed lines, intended for taking notes. The grid is contained within a rounded rectangular border.

Gripper

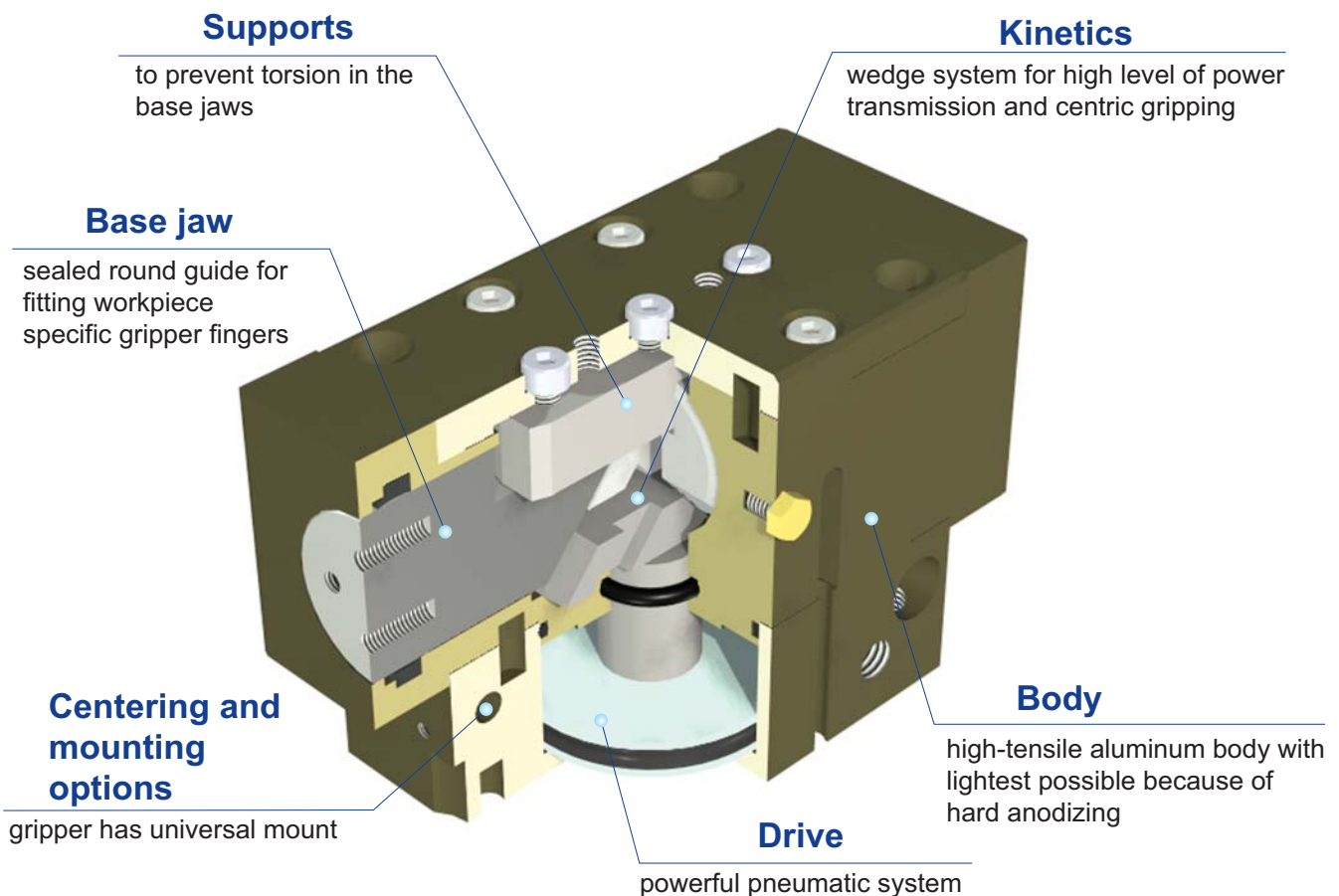
AF30DP-25,30,40,50

Character

- Reduction of internal wear and tear and friction with special coating of the Jaw.
- It's easy to determine the location of attachments with the fixed fin on the Jaw.
- With the scraper seal, infiltration of foreign materials is prevented.
- Miniscule materials that infiltrate into the product could be discharged using the air outlet port.
- With the attachment of the linear guide, preventing the rotation of the jaw is possible.

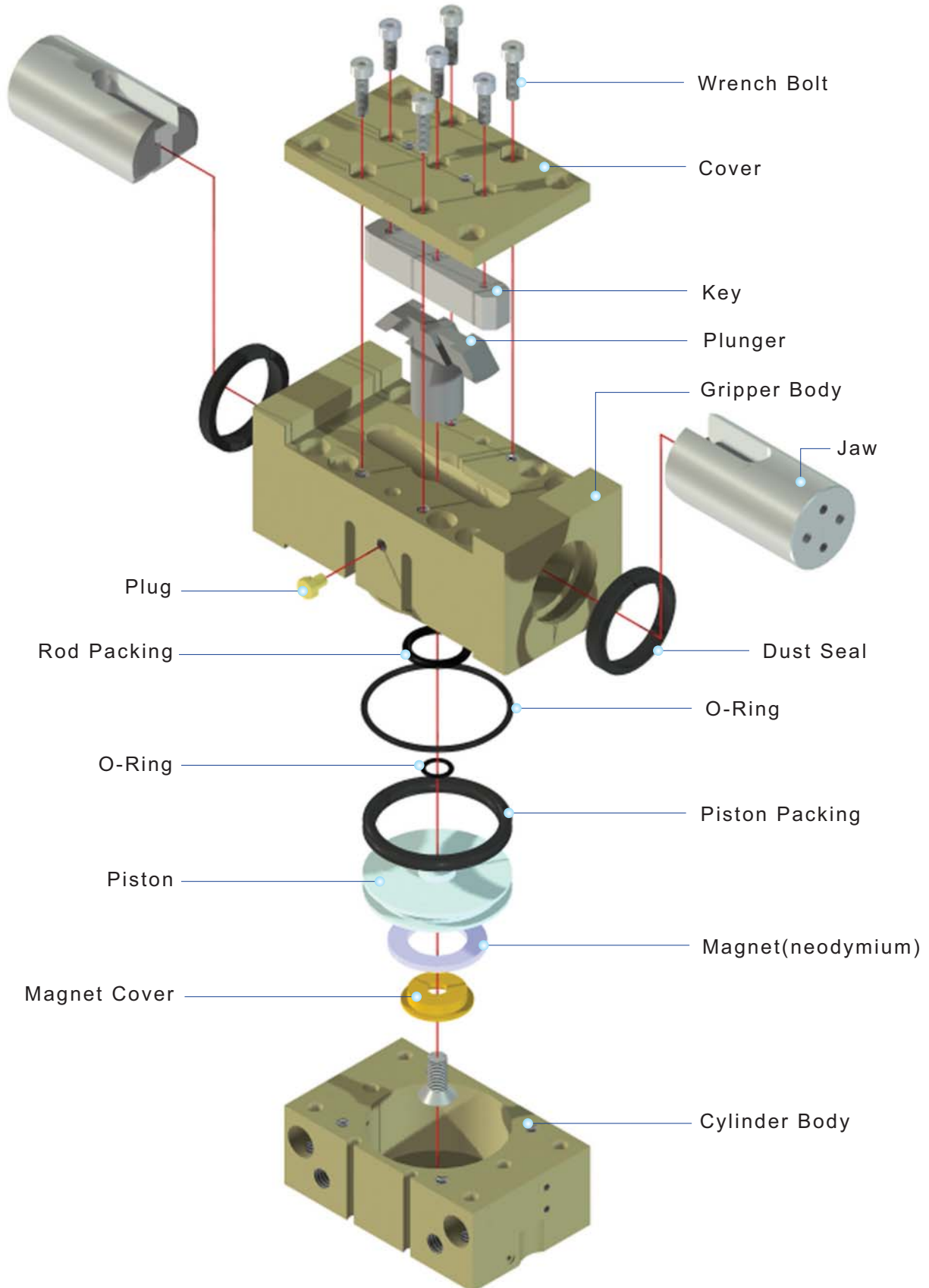


Dust proof type



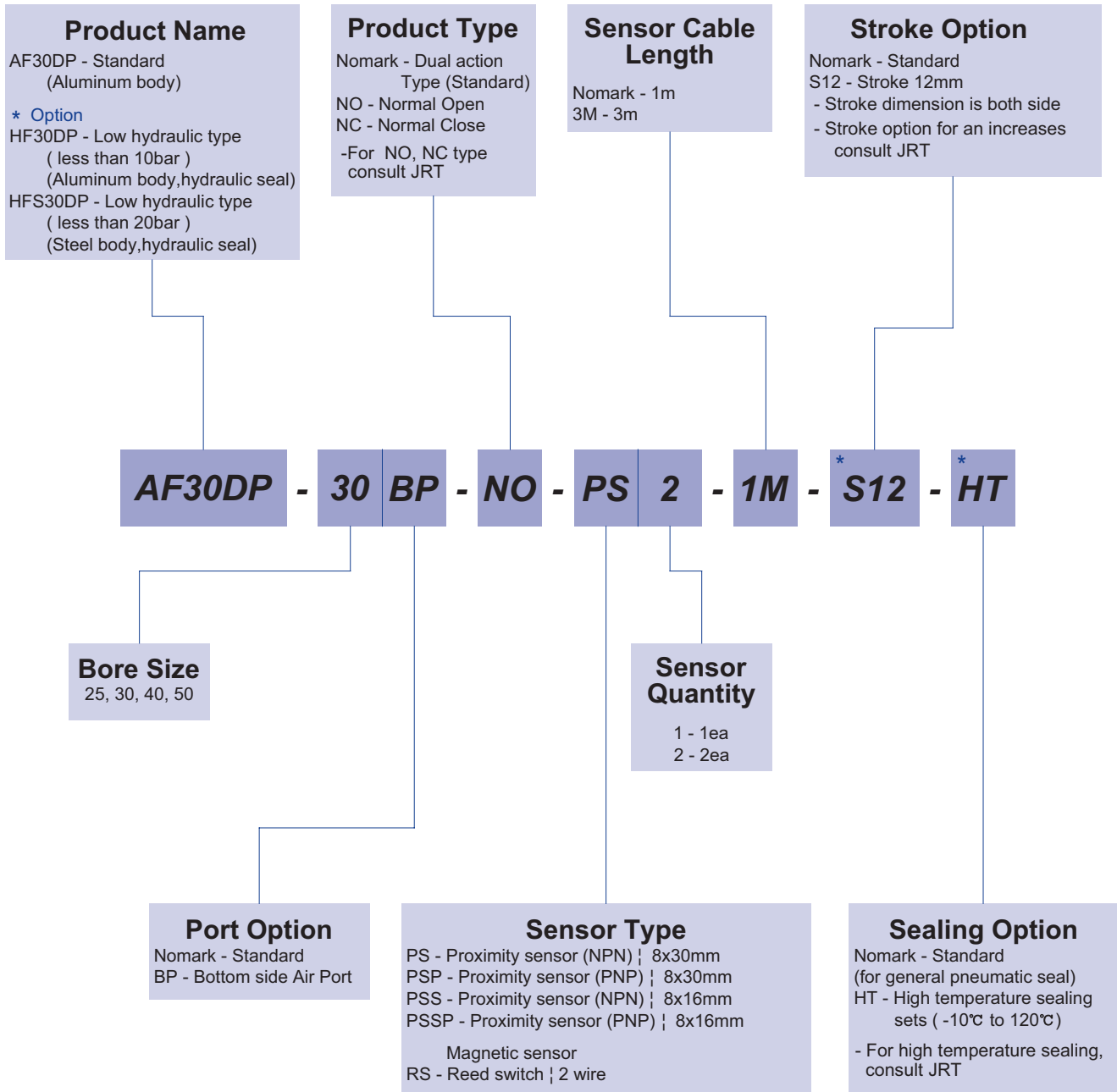
AF30DP

Exploded view



AF30DP

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF30DP

Specification

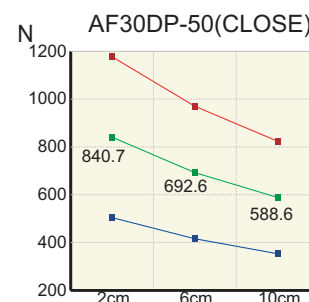
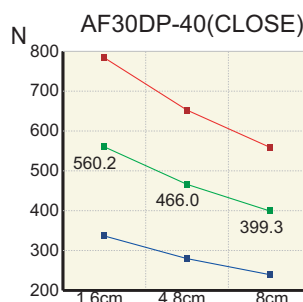
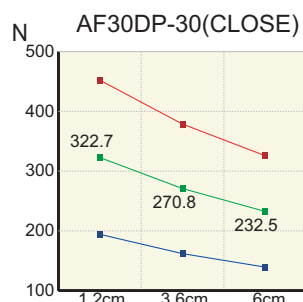
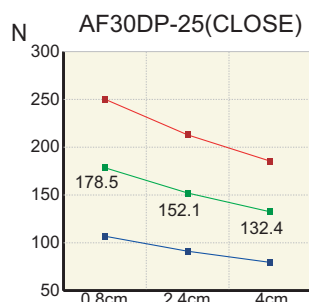
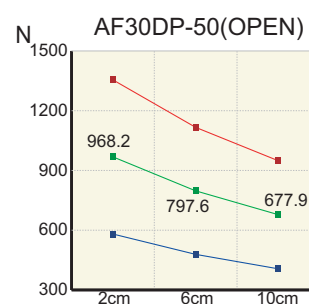
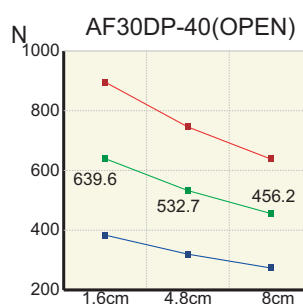
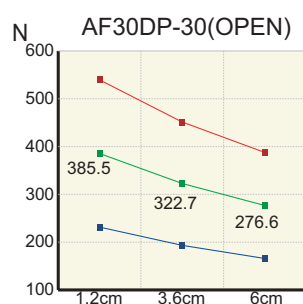
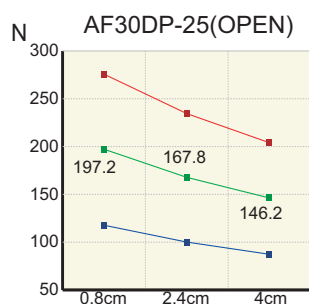
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF30DP-25	AF30DP-30	AF30DP-40	AF30DP-50	Unit
Stroke	12	16	20	26	mm
Weight	0.4	0.72	1.28	1.48	kg
Max. length of attach	40	60	80	100	mm
Fitting size	M5	M5	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	43.16P/(1+0.012L)	85.35P/(1+0.009L)	142.25P/(1+0.007L)	216.8P/(1+0.006L)	N
Gripping force:Close	39.24P/(1+0.012L)	71.61P/(1+0.009L)	124.59P/(1+0.007L)	188.35P/(1+0.006L)	
Air consumption per cycle	6.8	17.0	35.8	68.8	cm ³
Closing / Opening time	0.01 / 0.01	0.02 / 0.02	0.04 / 0.04	0.07 / 0.07	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	50	50	40	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

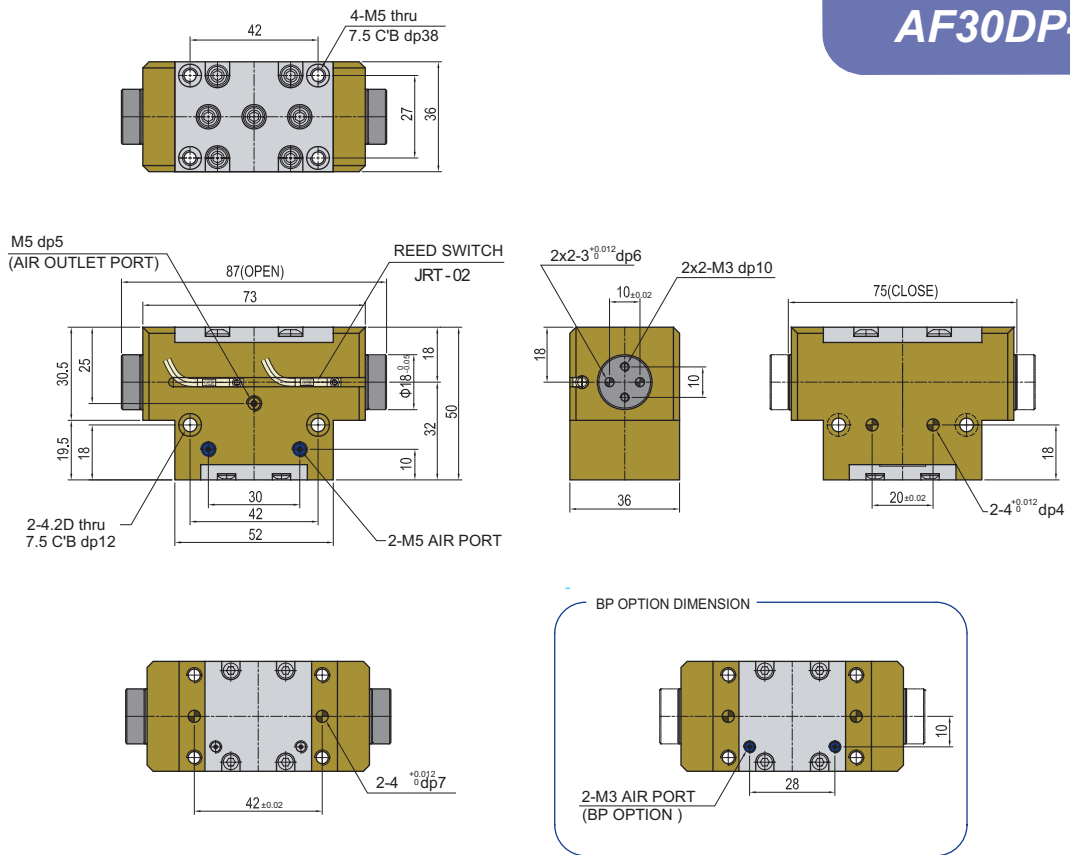
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

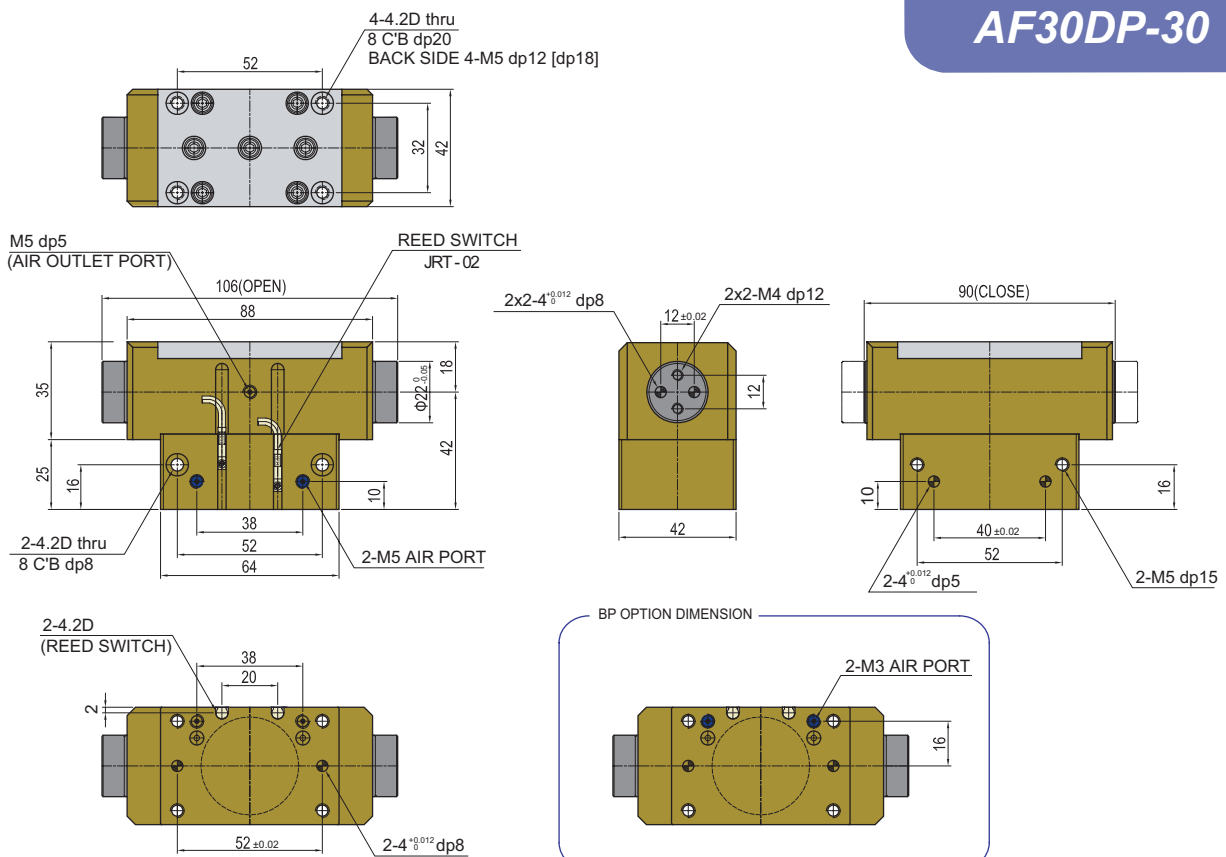


AF30DP

AF30DP-25

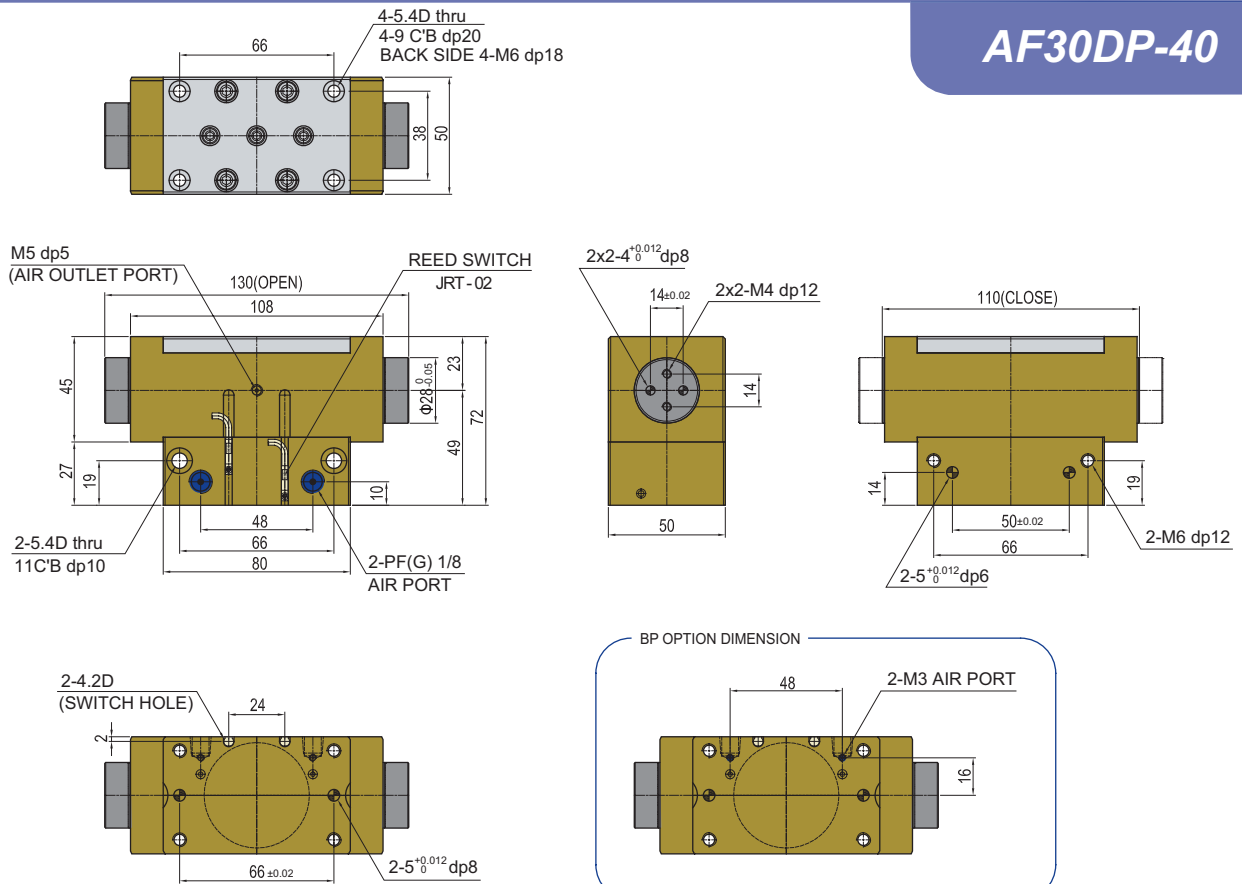


AF30DP-30

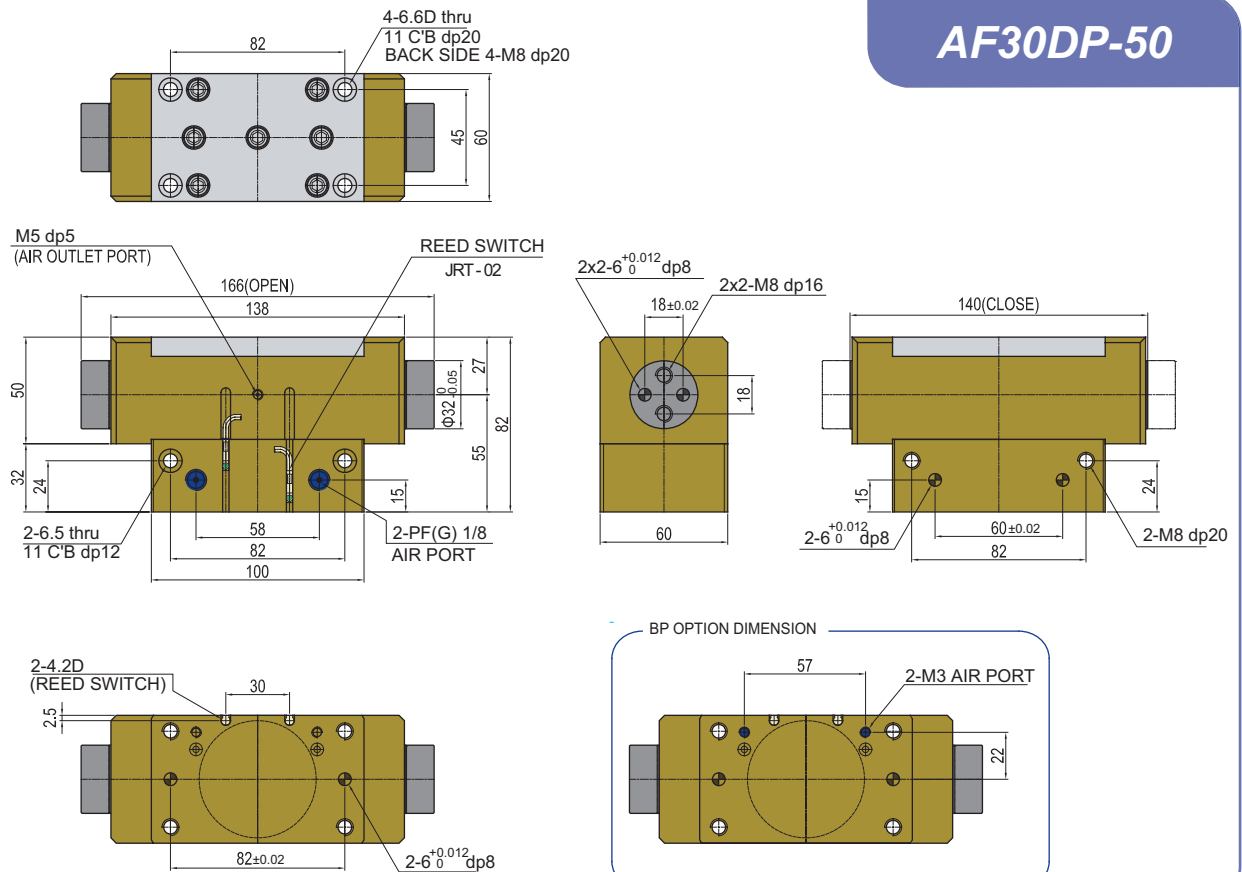


AF30DP

AF30DP-40



AF30DP-50



Gripper

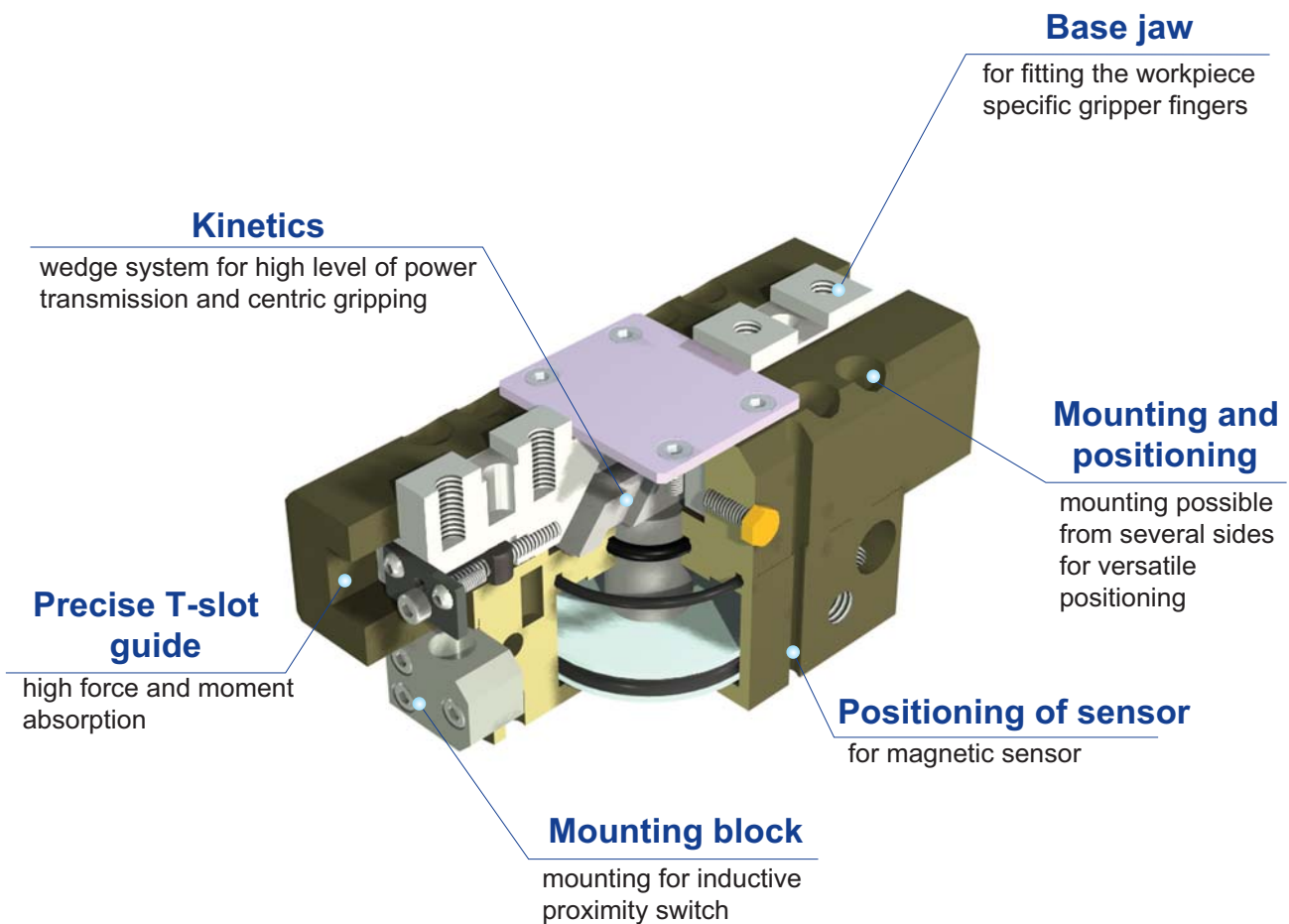
AF30SP-30,40,50

Character

- Proximity sensor and magnetic sensor (JRT-02) are optional.
- When the plunger rod is attached to the body, the length increases to minimize the interval, thereby enhancing durability.
- The structure minimizes infiltration of foreign materials, and is effective in preventing infiltration of such materials as splintered chips.
- Miniscule materials that infiltrate into the product could be discharged using the air outlet port.

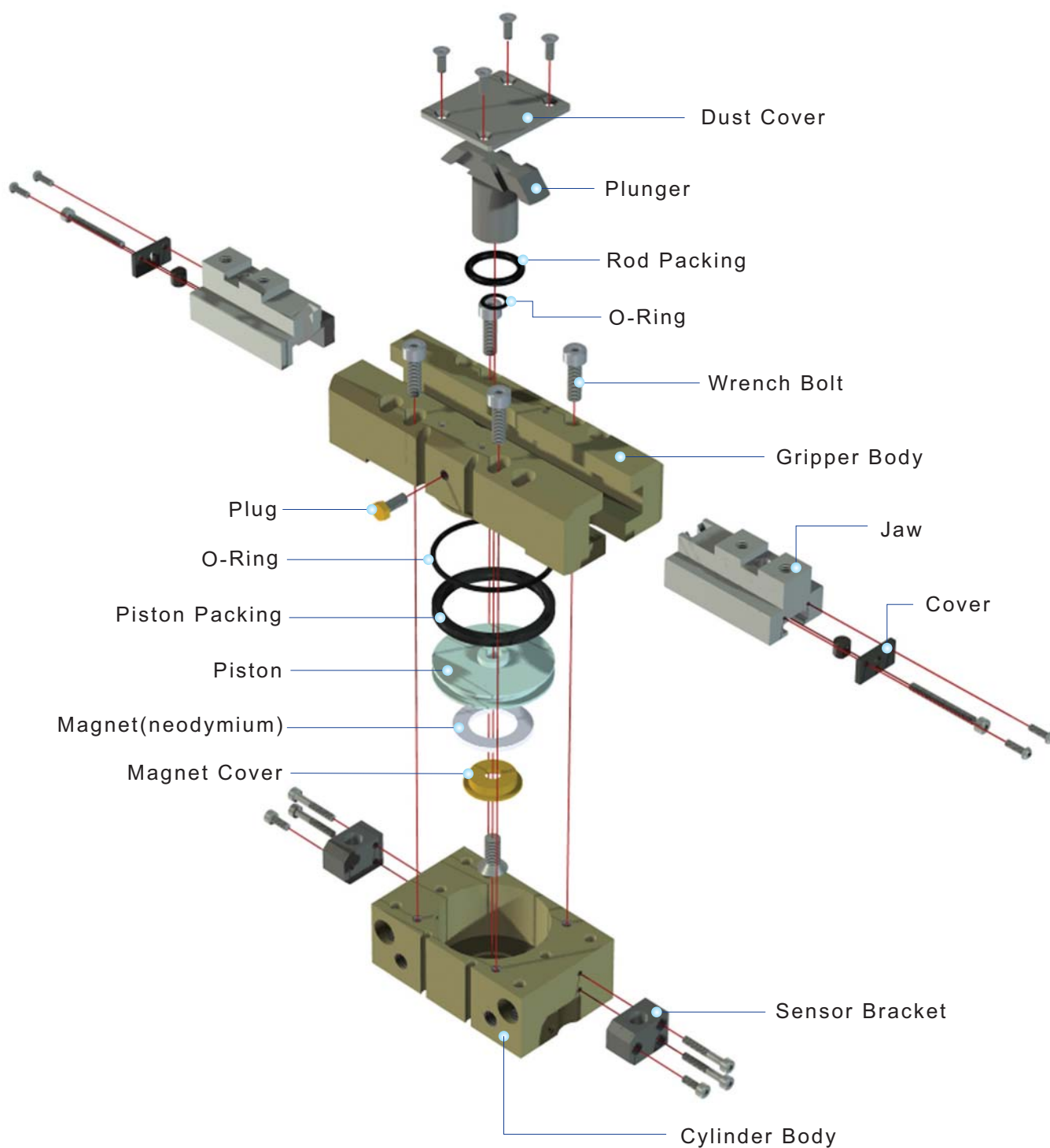


AF30 type special power-up gripper



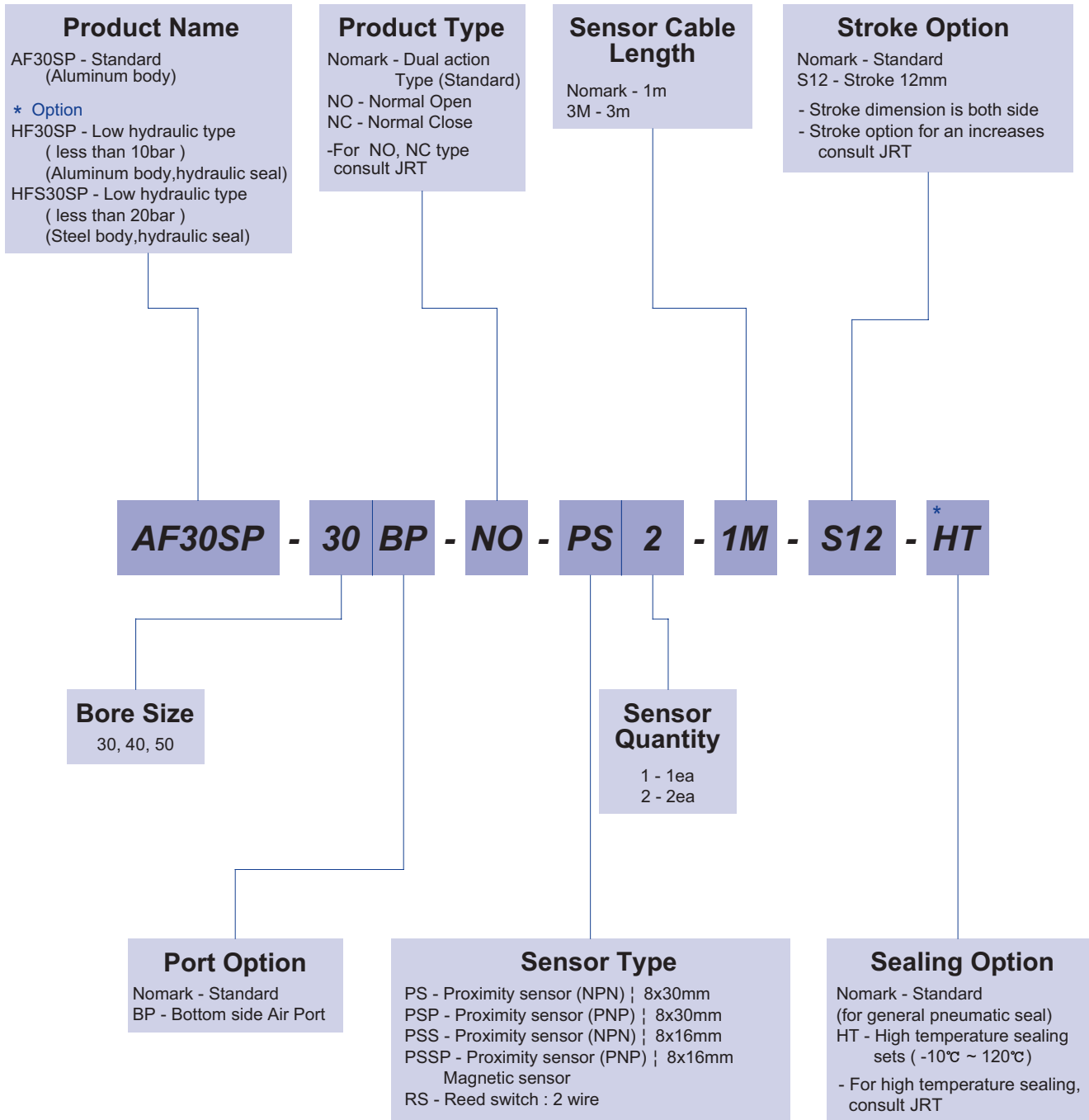
AF30SP

Exploded view



AF30SP

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF30SP

Specification

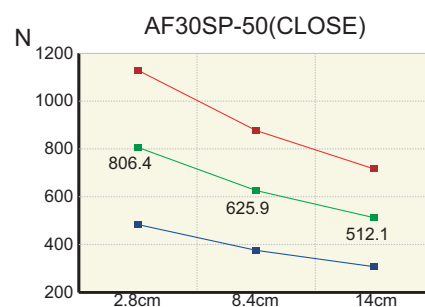
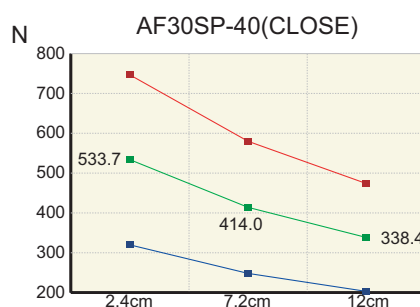
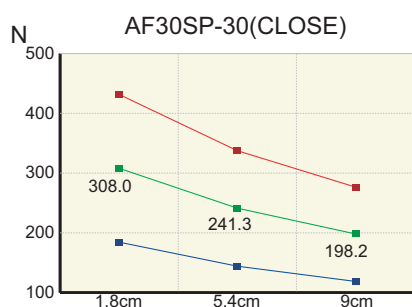
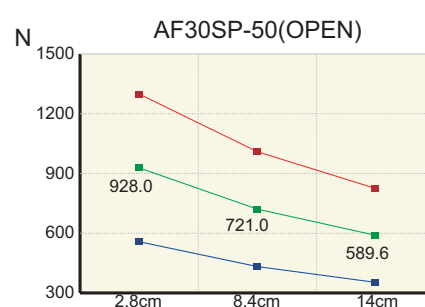
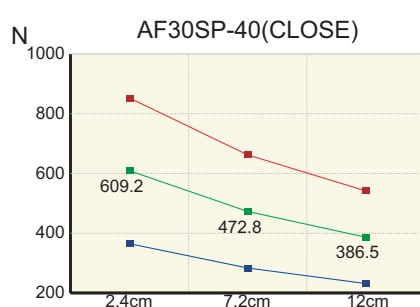
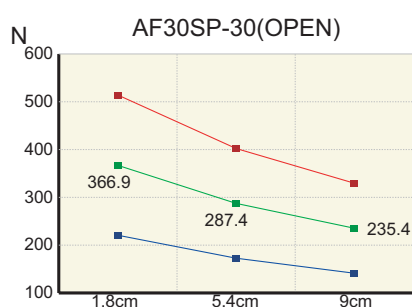
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF30SP-30	AF30SP-40	AF30SP-50	Unit
Stroke	16	20	26	mm
Weight	0.55	0.87	1.48	kg
Max. length of attach	90	120	140	mm
Fitting size	M5	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	$85.35P/(1+0.009L)$	$142.25P/(1+0.007L)$	$216.80P/(1+0.006L)$	N
Gripping force:Close	$71.61P/(1+0.009L)$	$124.59P/(1+0.007L)$	$188.35P/(1+0.006L)$	
Air consumption per cycle	17.2	35.8	68.8	cm ³
Closing / Opening time	0.02 / 0.02	0.04 / 0.04	0.07 / 0.07	sec
* Repeat accuracy	0.01	0.02	0.02	mm
Max.cycle per minute	50	50	40	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

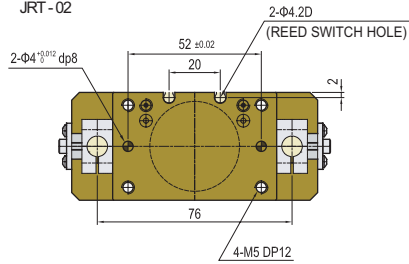
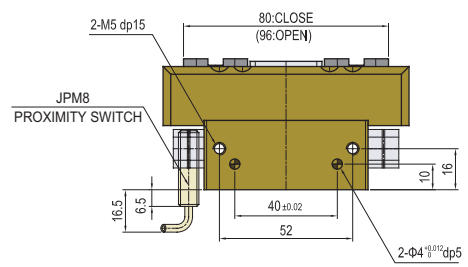
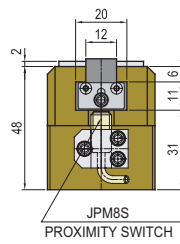
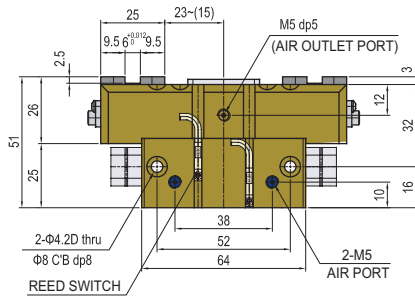
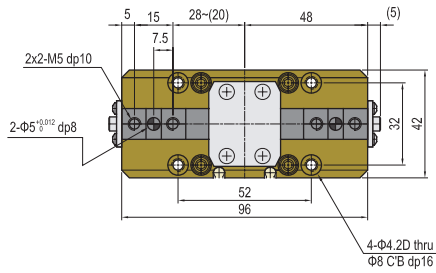
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

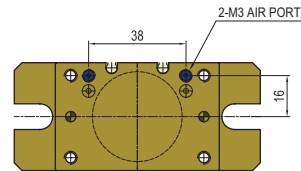


AF30SP

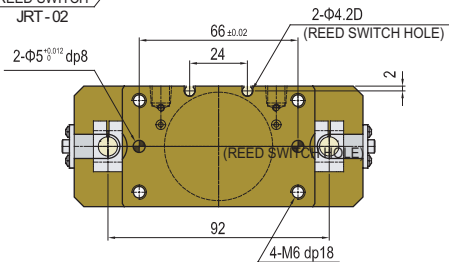
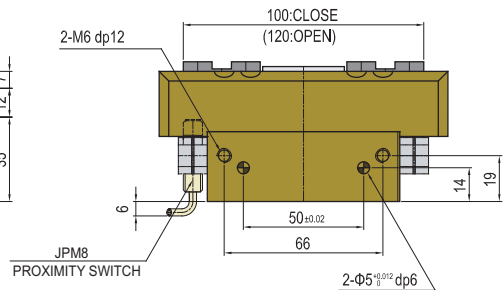
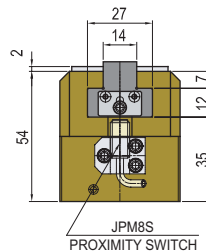
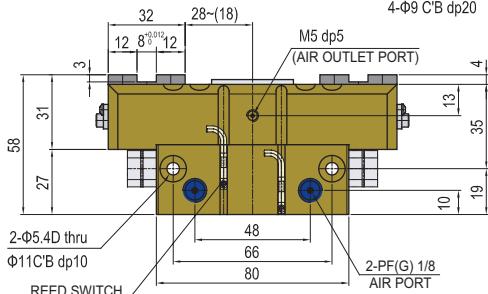
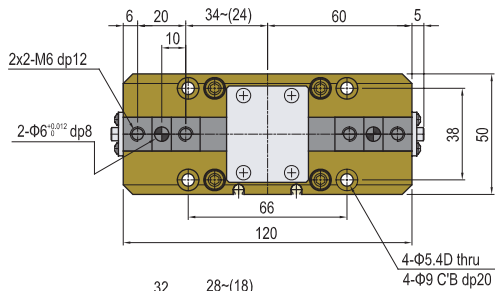
AF30SP-30



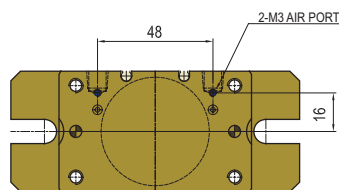
BP OPTION DIMENSION



AF30SP-40

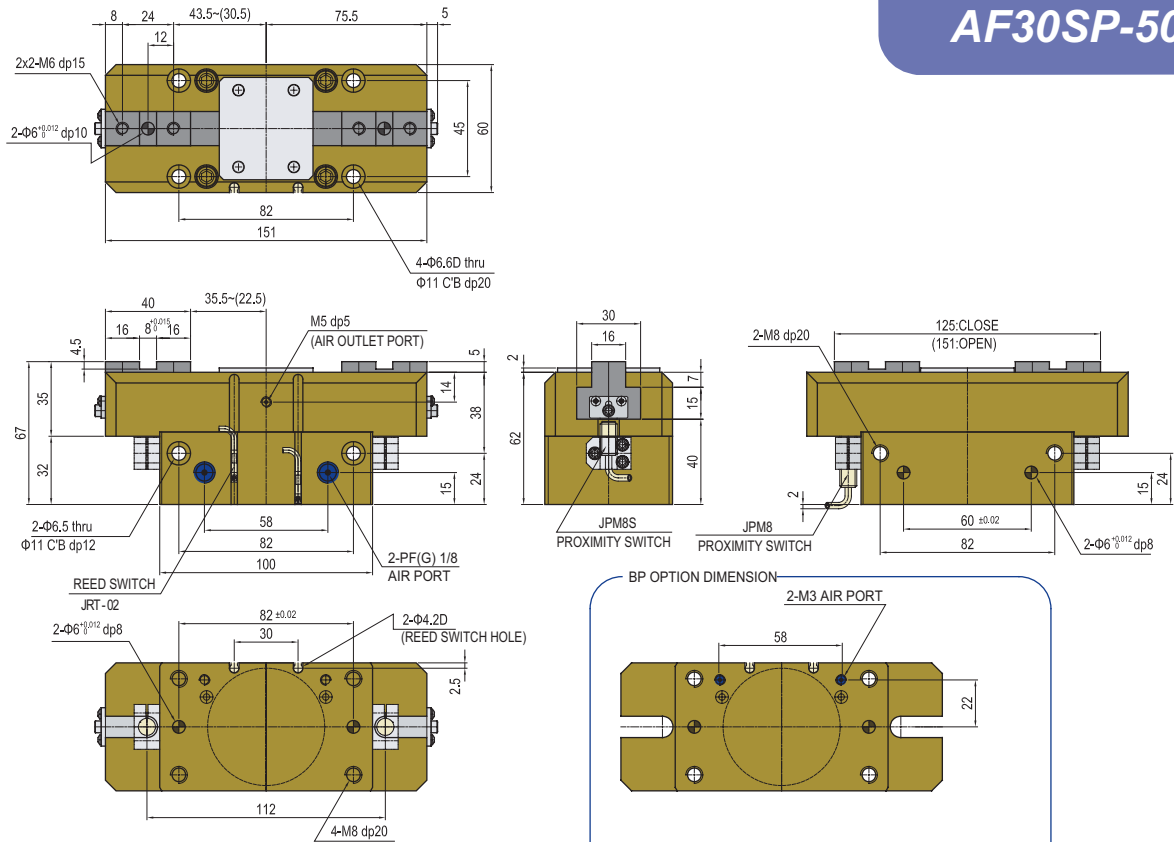


BP OPTION DIMENSION



AF30SP

AF30SP-50



Note

Gripper

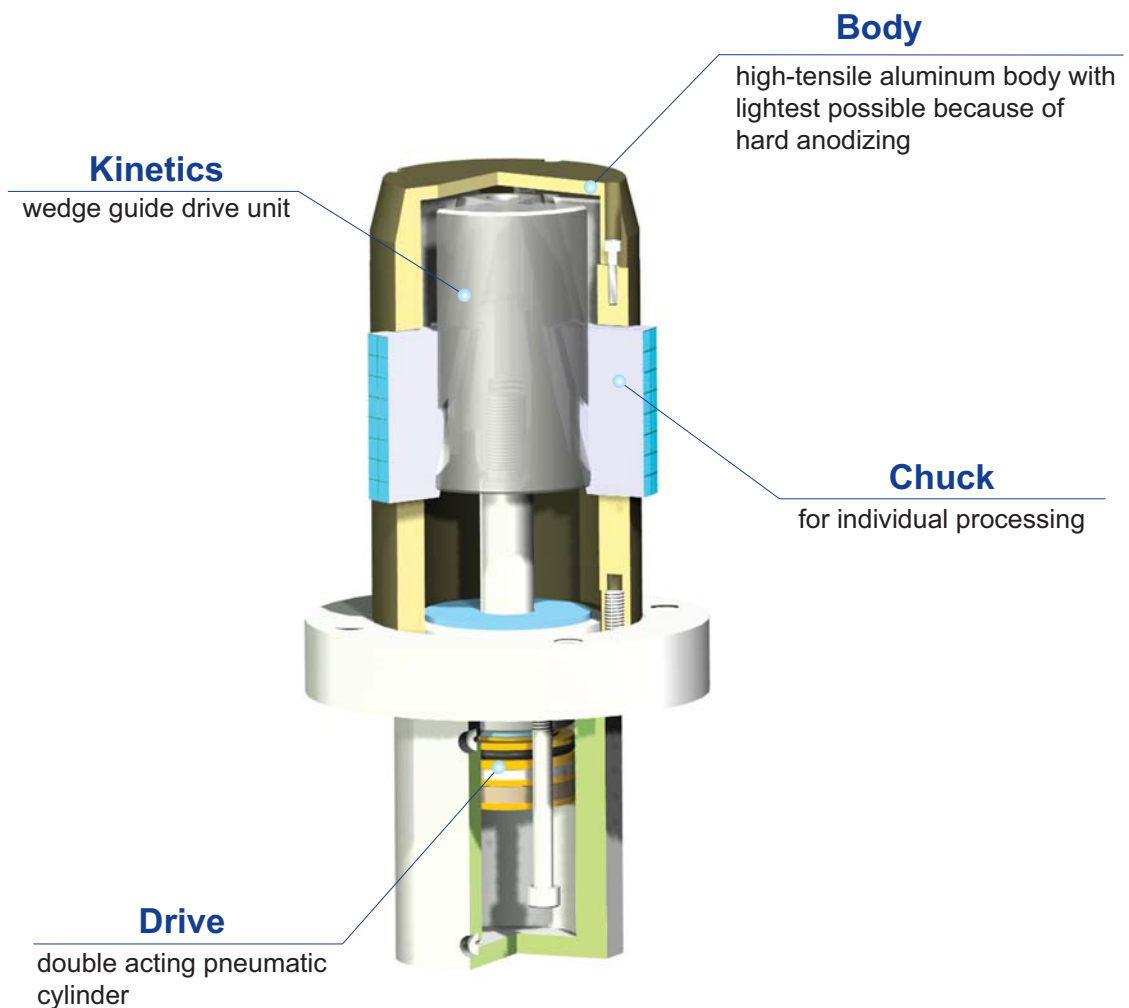
AF40-40

Character

- Suitable for inside diameter gripping (Bobbin) by wedge guide driving unit
- Excellent gripping force
- Possible to grip directly without the additional mounting of jaw
- Magnetic sensor is available for open-close sensing

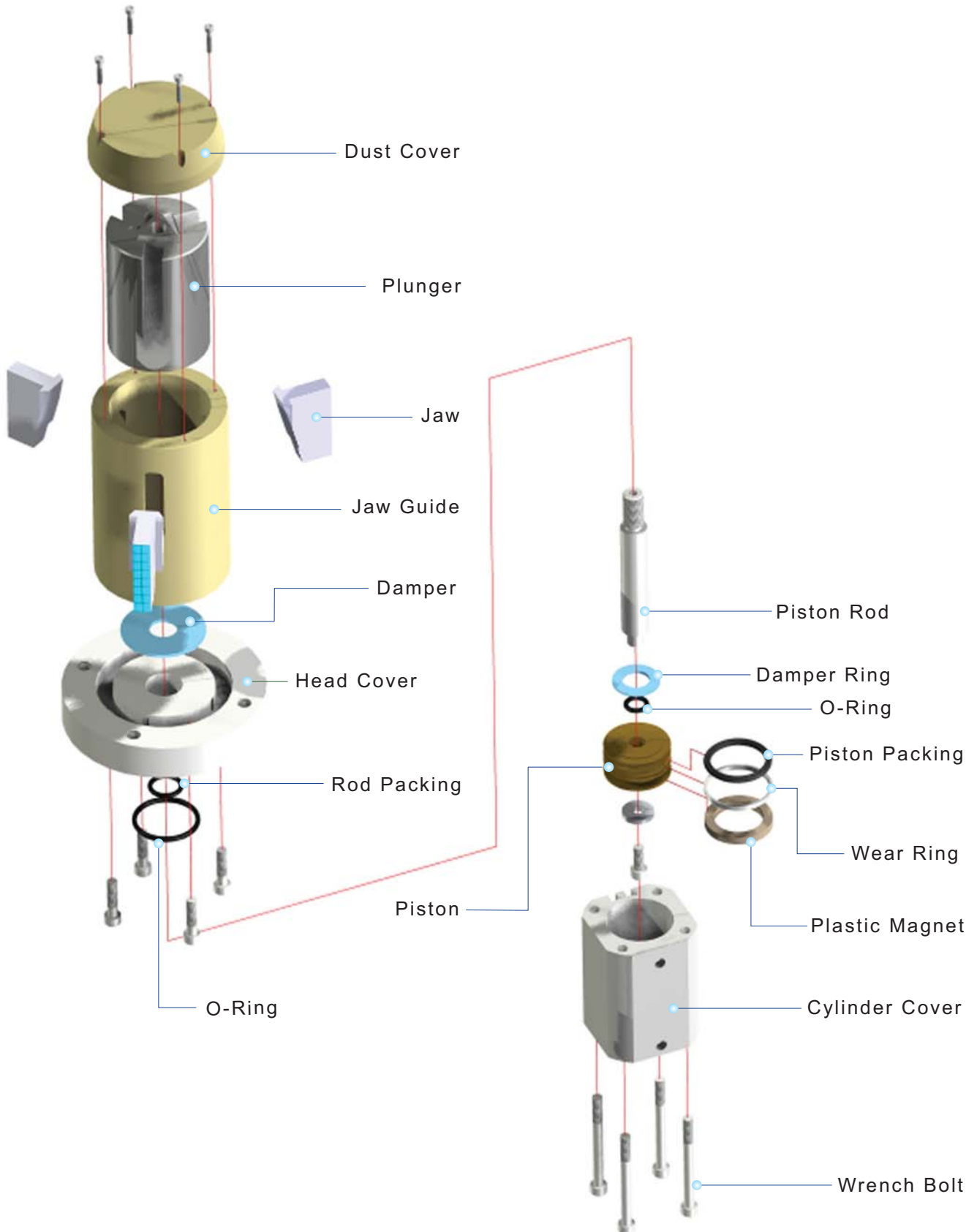


Air chuck suitable for bobbin handling



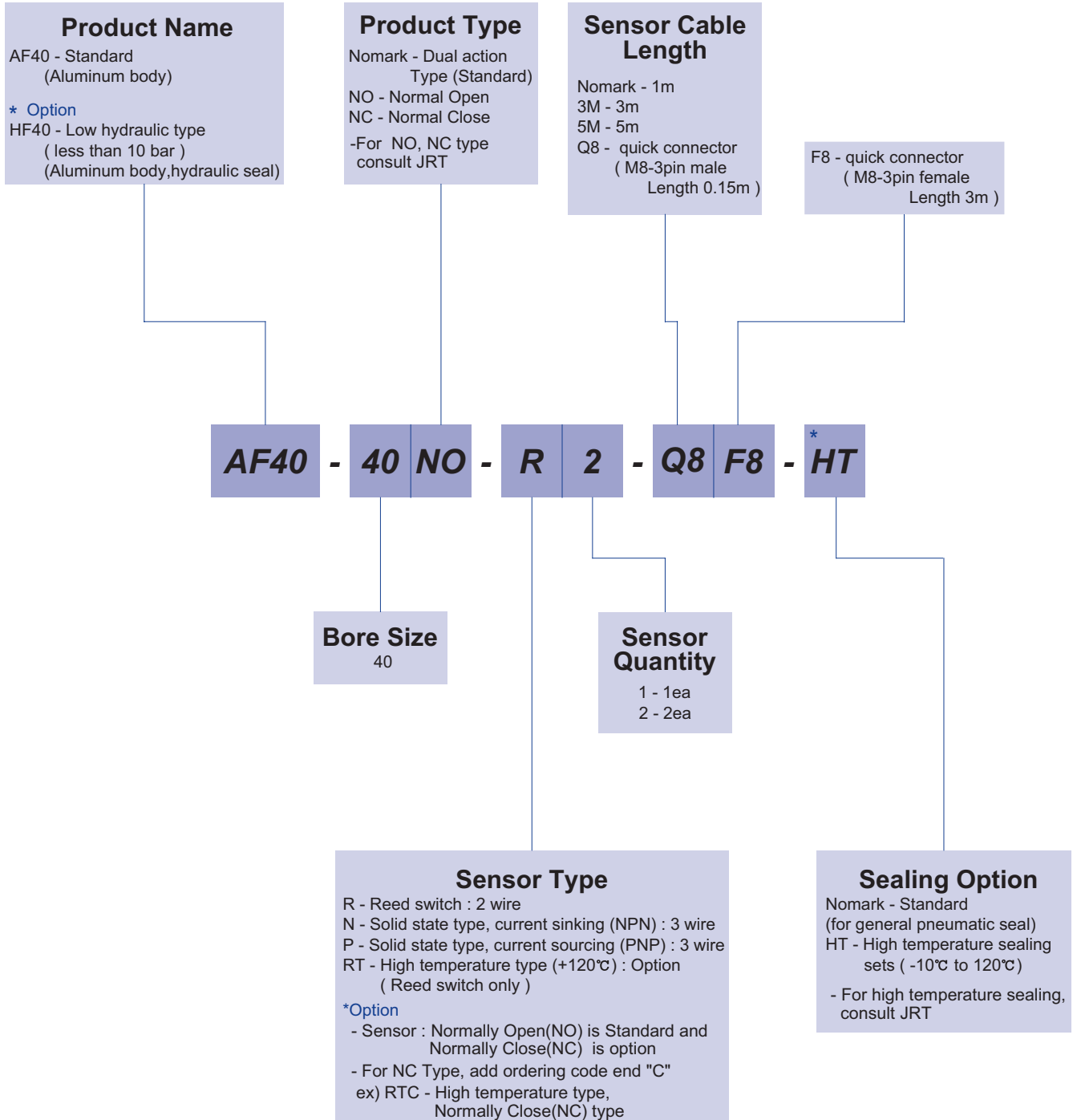
AF40

Exploded view



AF40

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF40

Specification

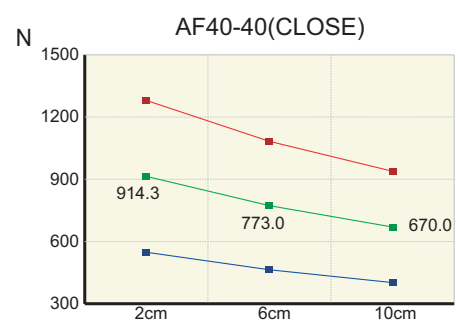
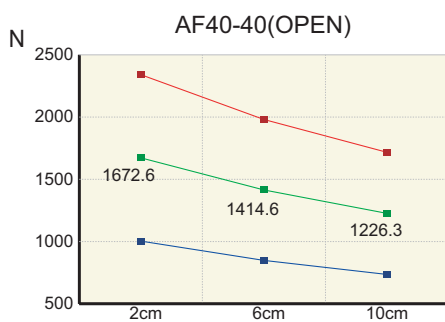
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF40-40	Unit
Stroke	22	mm
Weight	4.5	kg
Max. length of attach	100	mm
Fitting size	PF(G) 1/8	
Gripping force:Open	$367.88P/(1+0.005L)$	N
Gripping force:Close	$201.11P/(1+0.005L)$	
Air consumption per cycle	92.5	cm ³
Closing / Opening time	0.10 / 0.10	sec
* Repeat accuracy	0.01	mm
Max.cycle per minute	30	
Operating pressure	3~7	bar
Ambient temperature	-5 to 60	°C
Lubrication	Needless	

* After 100 consecutive strokes to end positions

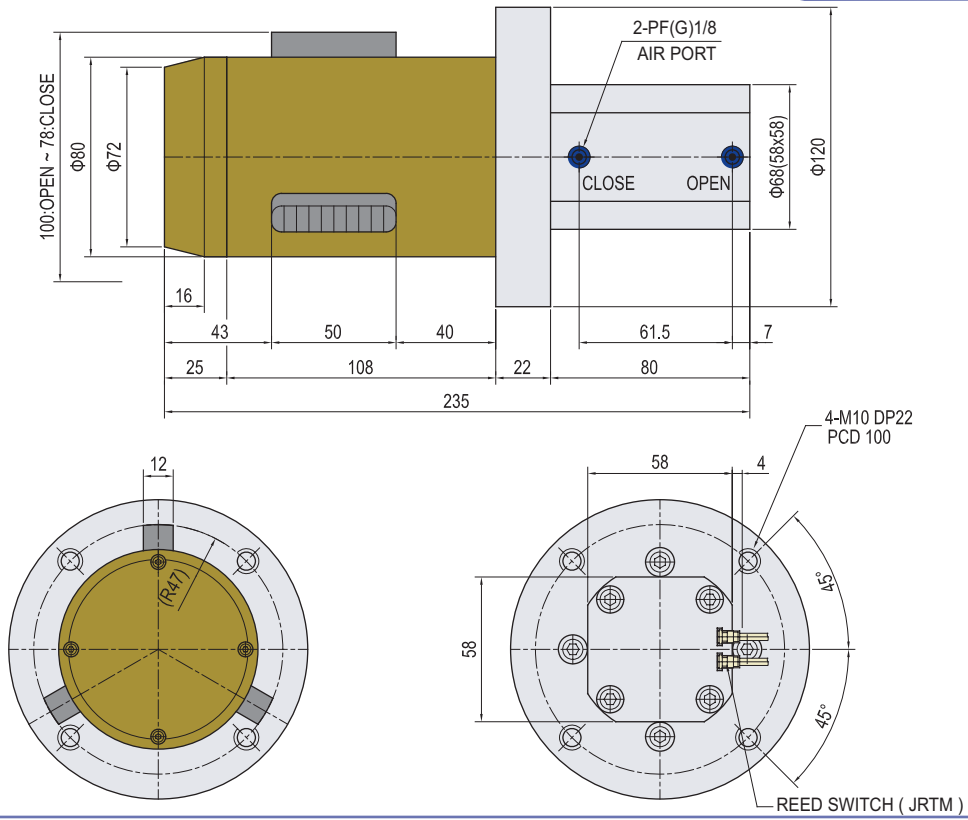
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]



AF40

AF40



Note

Notes

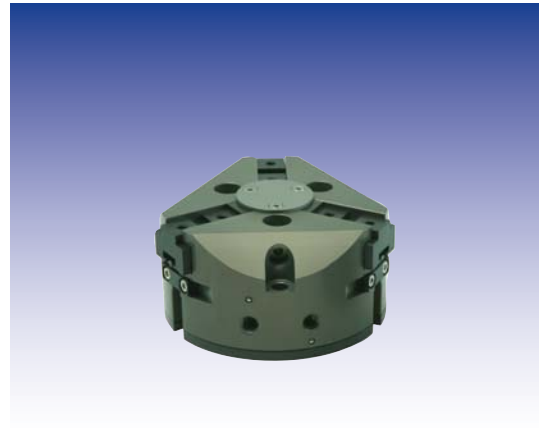
A large grid of dashed lines for writing notes. The grid consists of 20 columns and 25 rows of squares, with rounded corners on the top and bottom edges. The lines are thin and gray, creating a clean and professional appearance.

Gripper

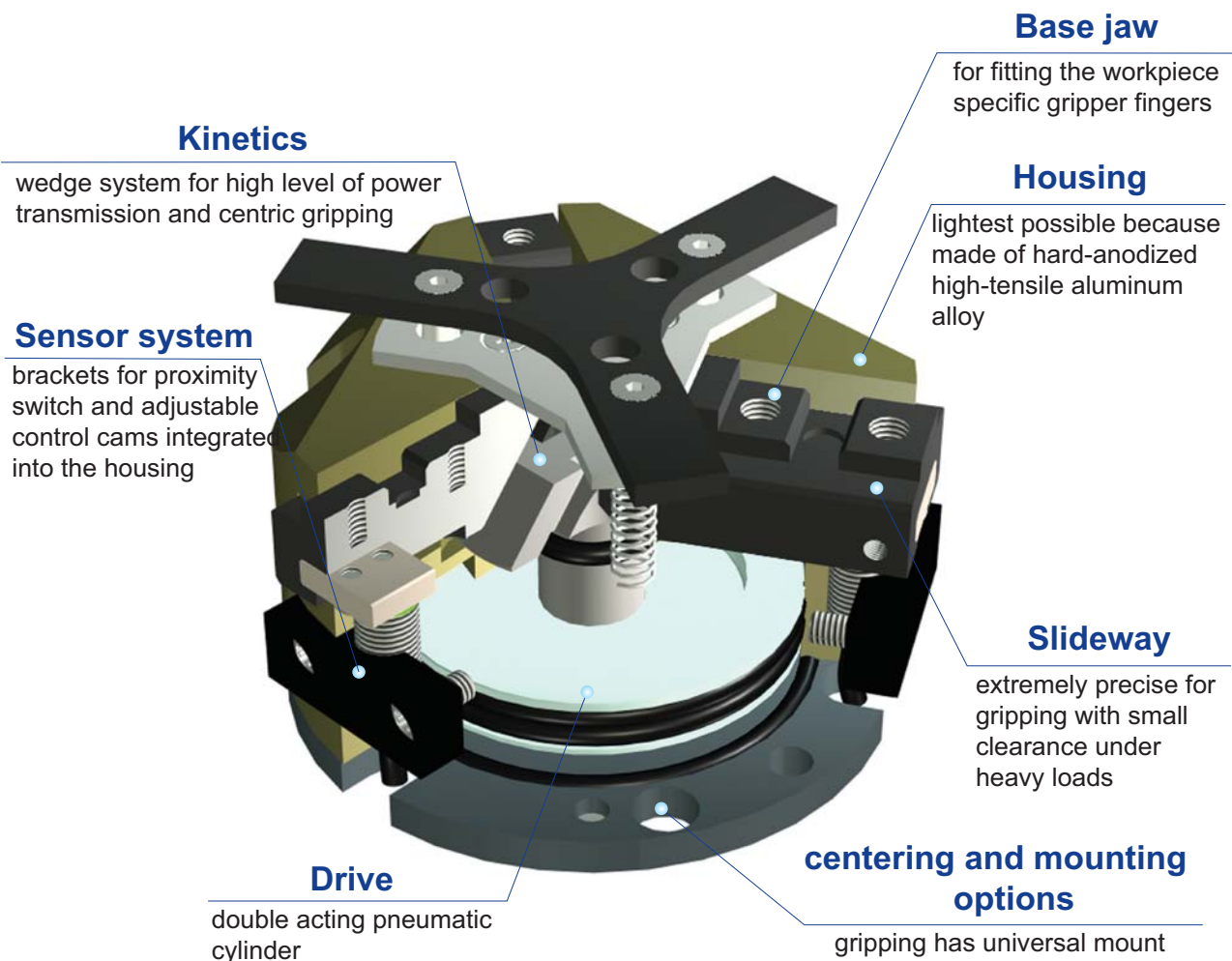
AF46-30,40,55,75,95,125,160N

Character

- Compact structure by wedge guide driving unit
- Possible to use without the supply tube when you use back side support port (BP option)
- Proximity sensor is available for open-close sensing
- Easy to grip the center of workpiece by the cylindrical structure

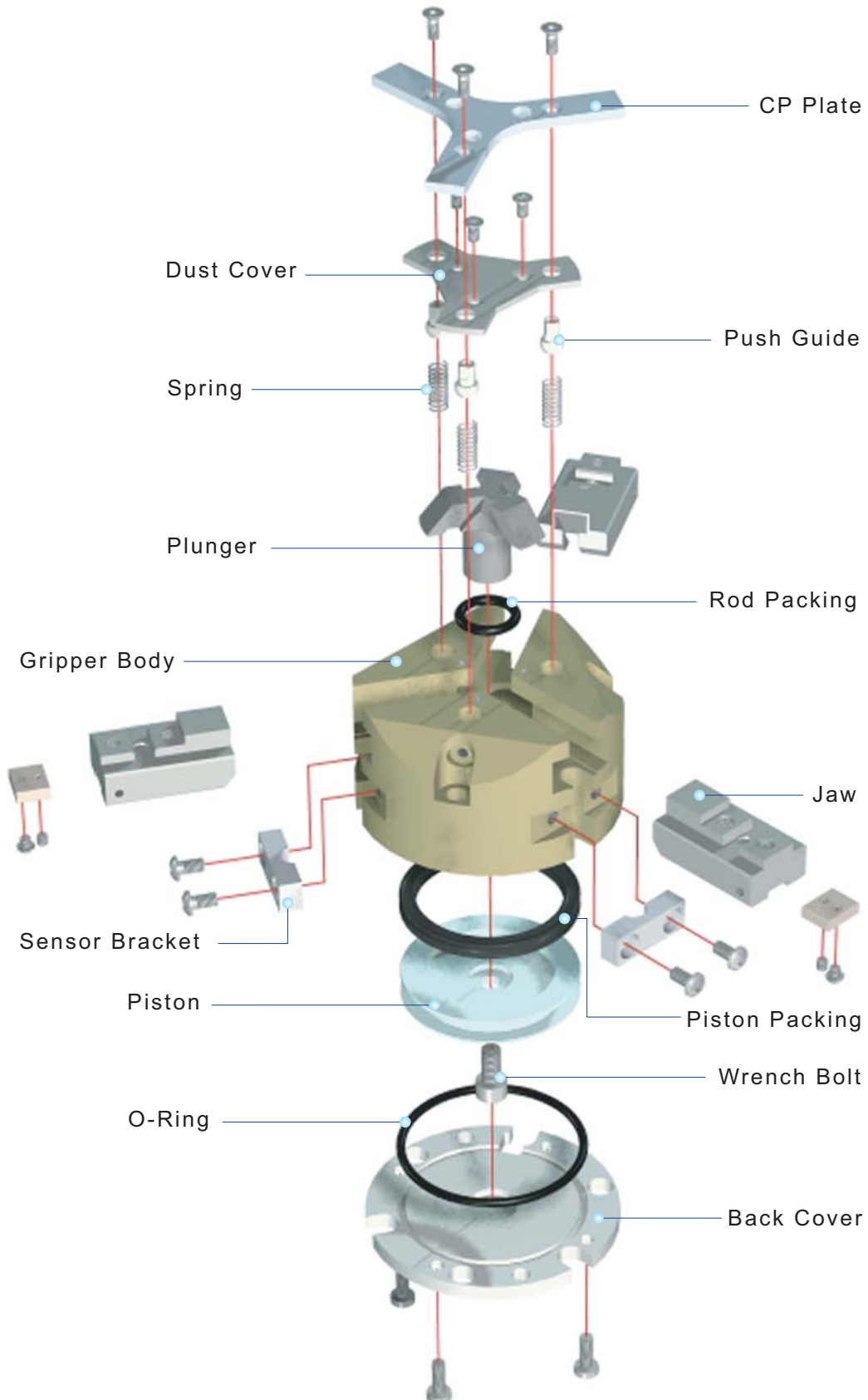


Wedge type



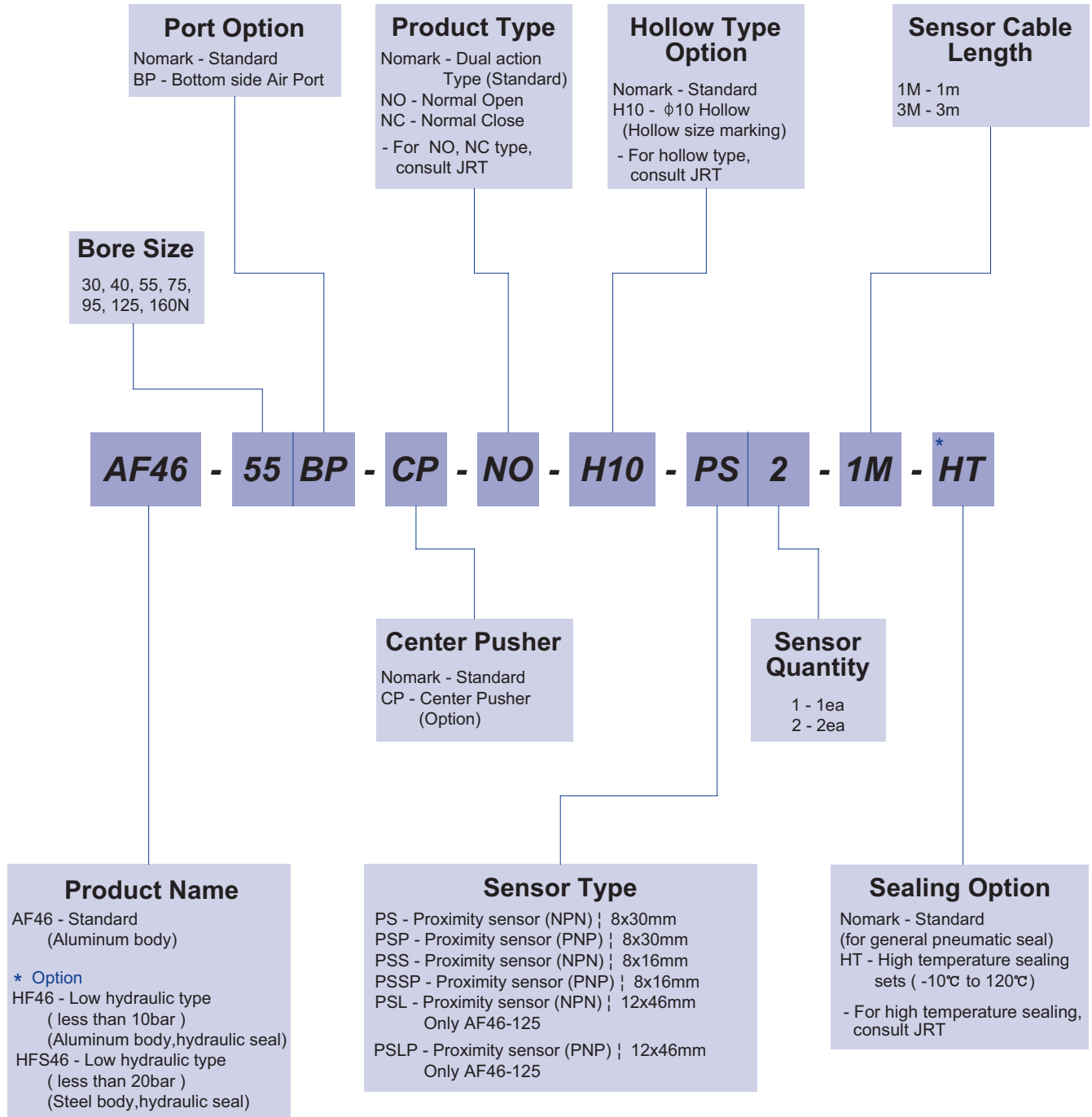
AF46

Exploded view



AF46

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF46

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF46-30	AF46-40	AF46-55	AF46-75	Unit
Stroke	8	12	16	20	mm
Weight	0.24	0.43	0.75	1.30	kg
Max. length of attach	50	60	80	100	mm
Fitting size	M5	M5	M5	PF(G) 1/8	
Gripping force:Open	60.82P/(1+0.01L)	109.87P/(1+0.008L)	241.33P/(1+0.01L)	421.83P/(1+0.007L)	N
Gripping force:Close	52.97P/(1+0.01L)	98.1P/(1+0.008L)	233.48P/(1+0.01L)	403.19P/(1+0.007L)	N
Air consumption per cycle	6.8	19.9	46.0	103.6	cm ³
Closing / Opening time	0.01 / 0.01	0.02 / 0.02	0.05 / 0.05	0.10 / 0.10	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	50	50	40	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

P=Air Pressure[bar] , L=Exertion length[mm]

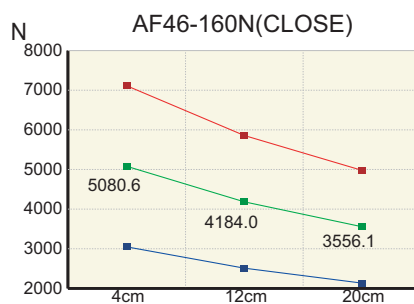
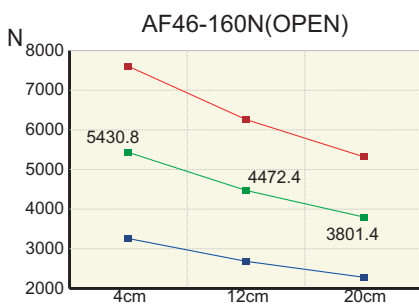
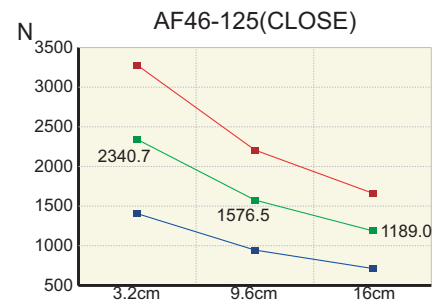
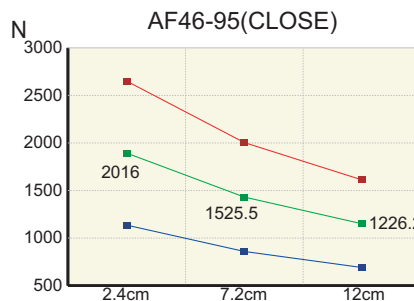
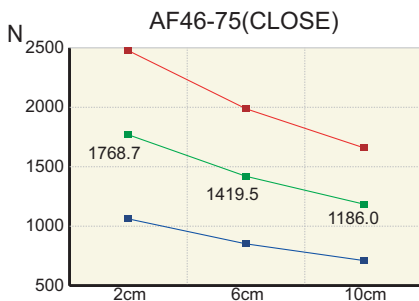
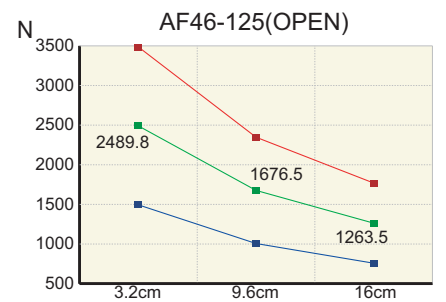
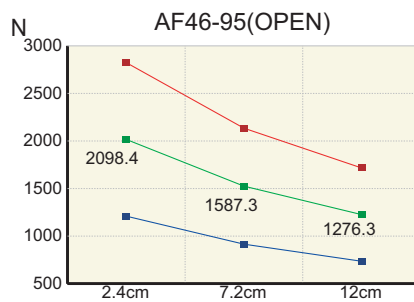
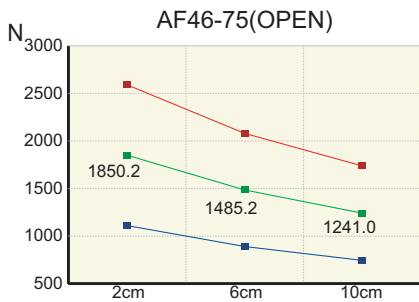
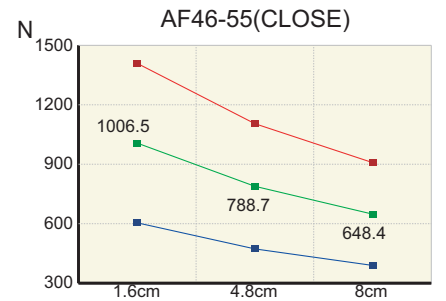
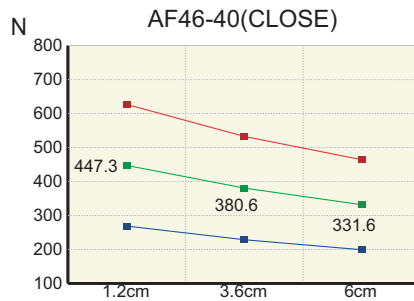
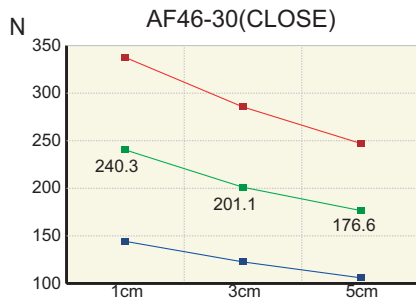
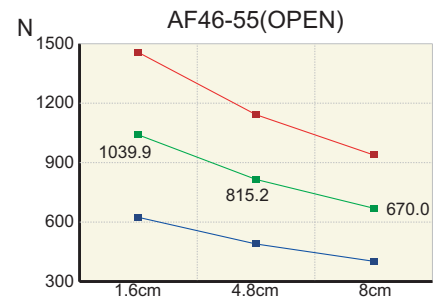
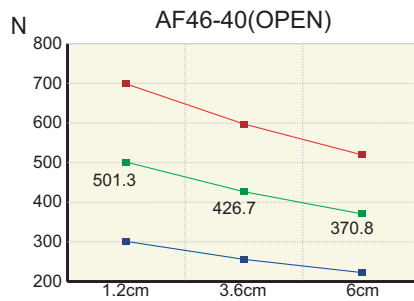
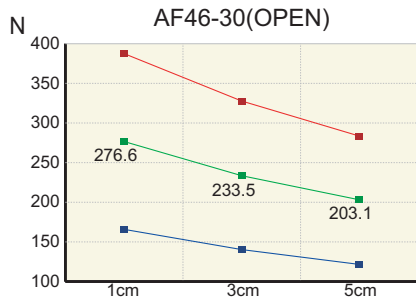
Products Name	AF46-95	AF46-125	AF46-160N	Unit
Stroke	26	32	50	mm
Weight	2.05	4.07	10.85	Kg
Max. length of attach	120	160	200	mm
Fitting size	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	500.31P/(1+0.008L)	657.27P/(1+0.01L)	1216.44P/(1+0.003L)	N
Gripping force:Close	480.69P/(1+0.008L)	618.03P/(1+0.01L)	1137.96P/(1+0.003L)	N
Air consumption per cycle	213.8	466.6	1182.2	cm ³
Closing / Opening time	0.22 / 0.22	0.50 / 0.50	0.12 / 0.12	sec
* Repeat accuracy	0.02	0.05	0.05	mm
Max.cycle per minute	40	30	20	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

AF46

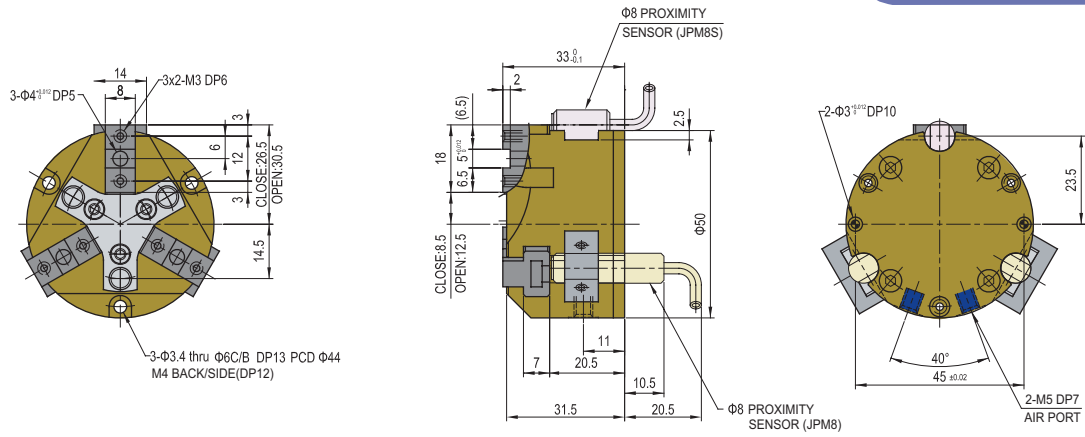
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

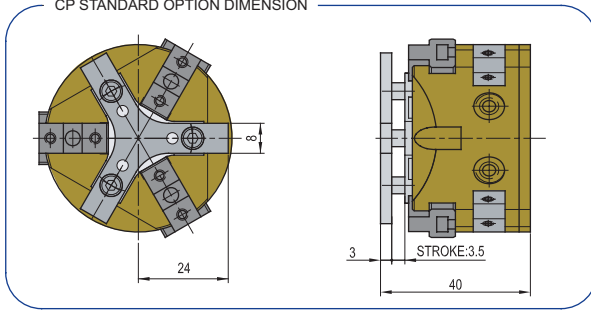


AF46

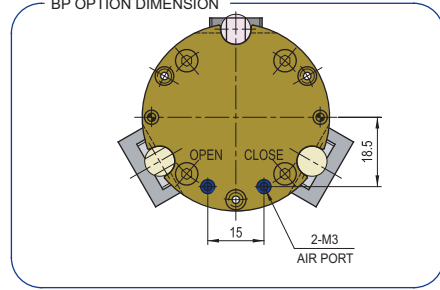
AF46-30



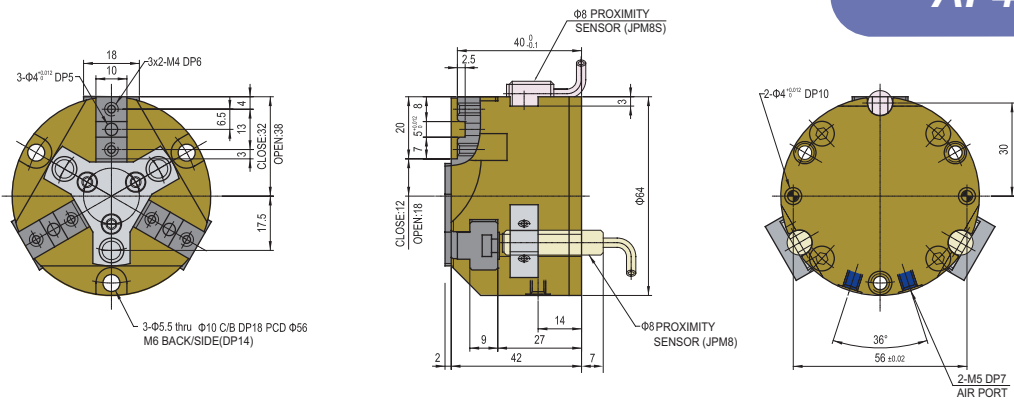
CP STANDARD OPTION DIMENSION



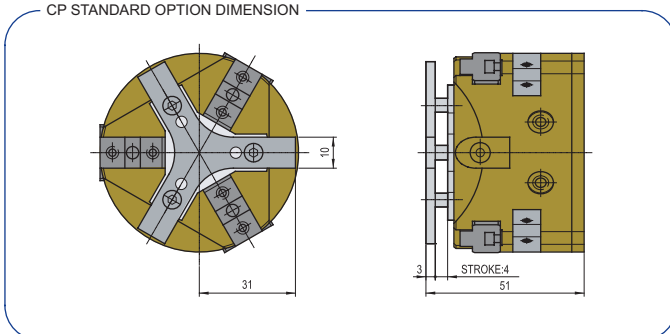
BP OPTION DIMENSION



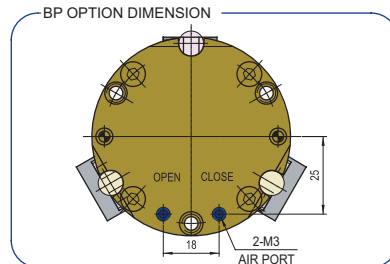
AF46-40



CP STANDARD OPTION DIMENSION

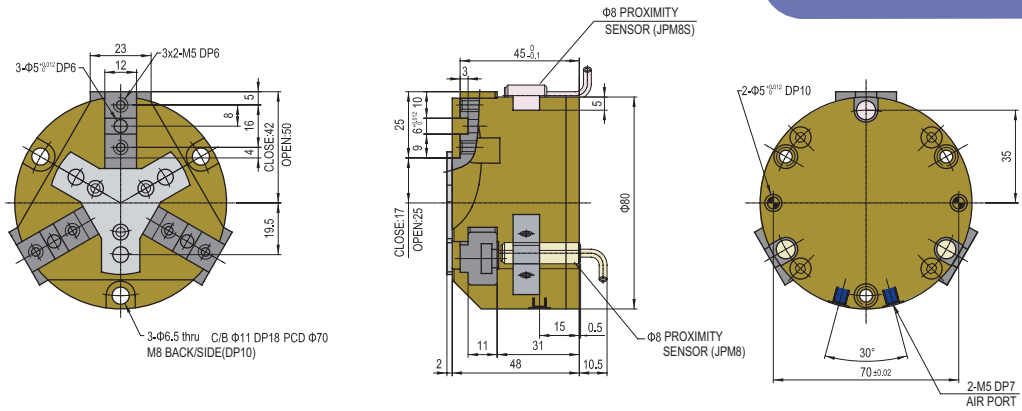


BP OPTION DIMENSION

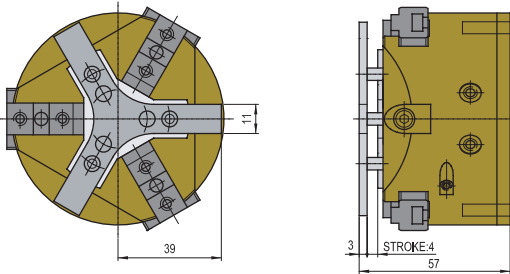


AF46

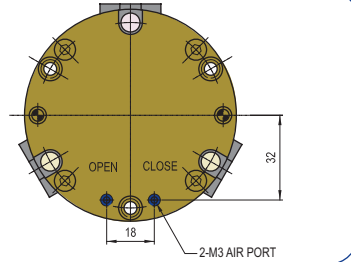
AF46-55



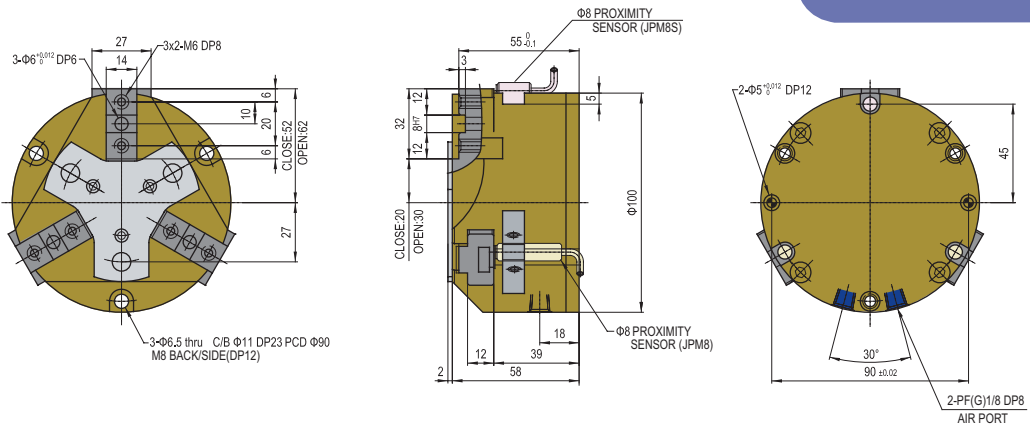
CP STANDARD OPTION DIMENSION



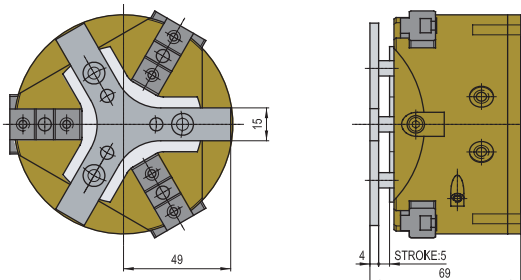
BP OPTION DIMENSION



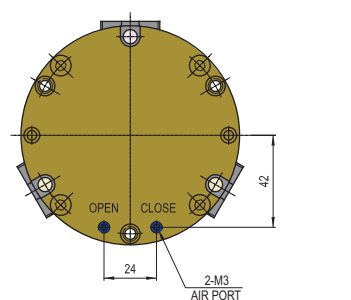
AF46-75



CP STANDARD OPTION DIMENSION

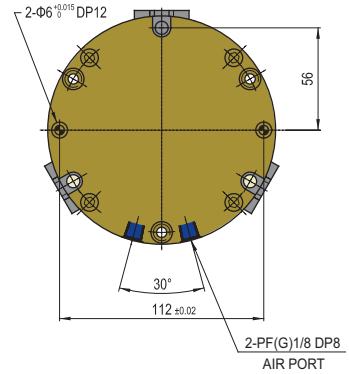
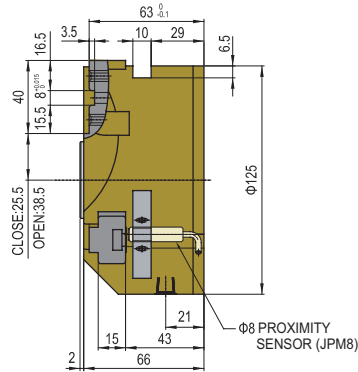
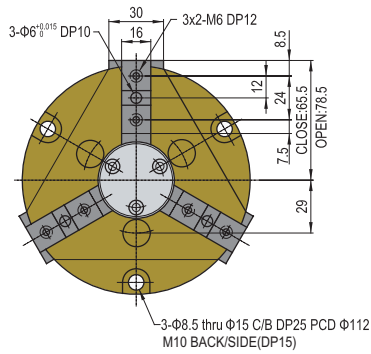


BP OPTION DIMENSION

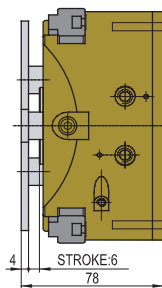
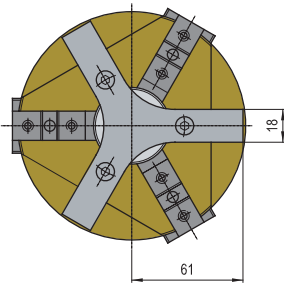


AF46

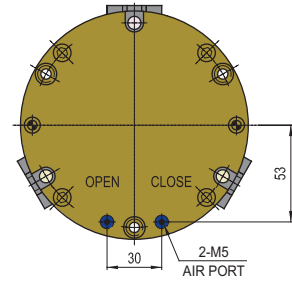
AF46-95



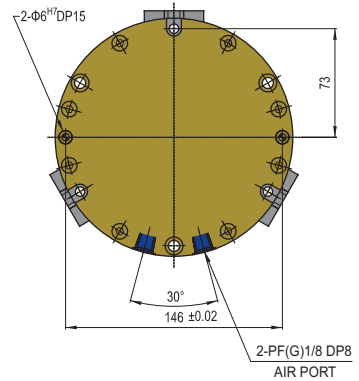
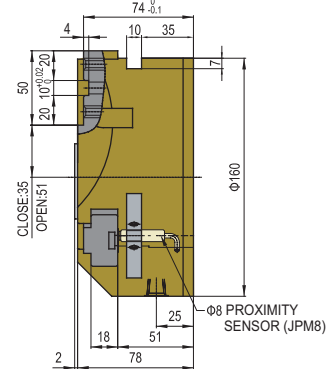
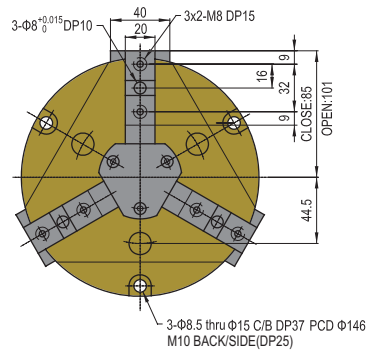
CP STANDARD OPTION DIMENSION



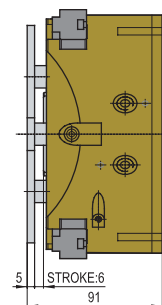
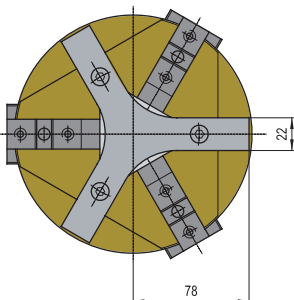
BP OPTION DIMENSION



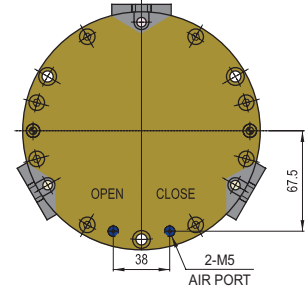
AF46-125



CP STANDARD OPTION DIMENSION

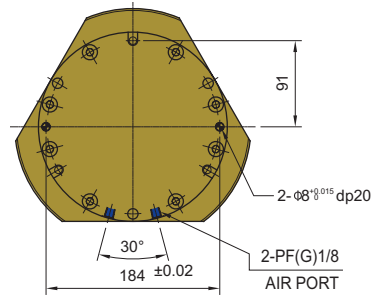
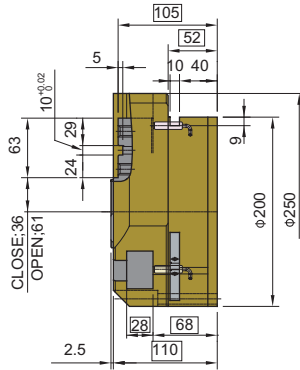
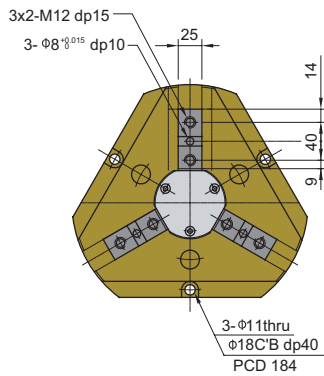


BP OPTION DIMENSION

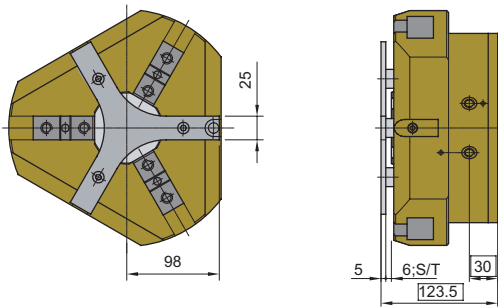


AF46

AF46-160N

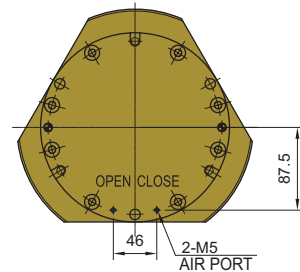


CP OPTION DIMENSION



1. The dimension was changed order to improve the operations of the standard AF46-160

BP OPTION DIMENSION



2. The measurements in the parenthesis are changed specifications, and other measurements are identical to those of AF46-160

Note

Notes

A large grid of dashed lines for taking notes. The grid consists of 20 columns and 25 rows of squares, with rounded corners. The lines are light gray and spaced evenly across the page.

Gripper

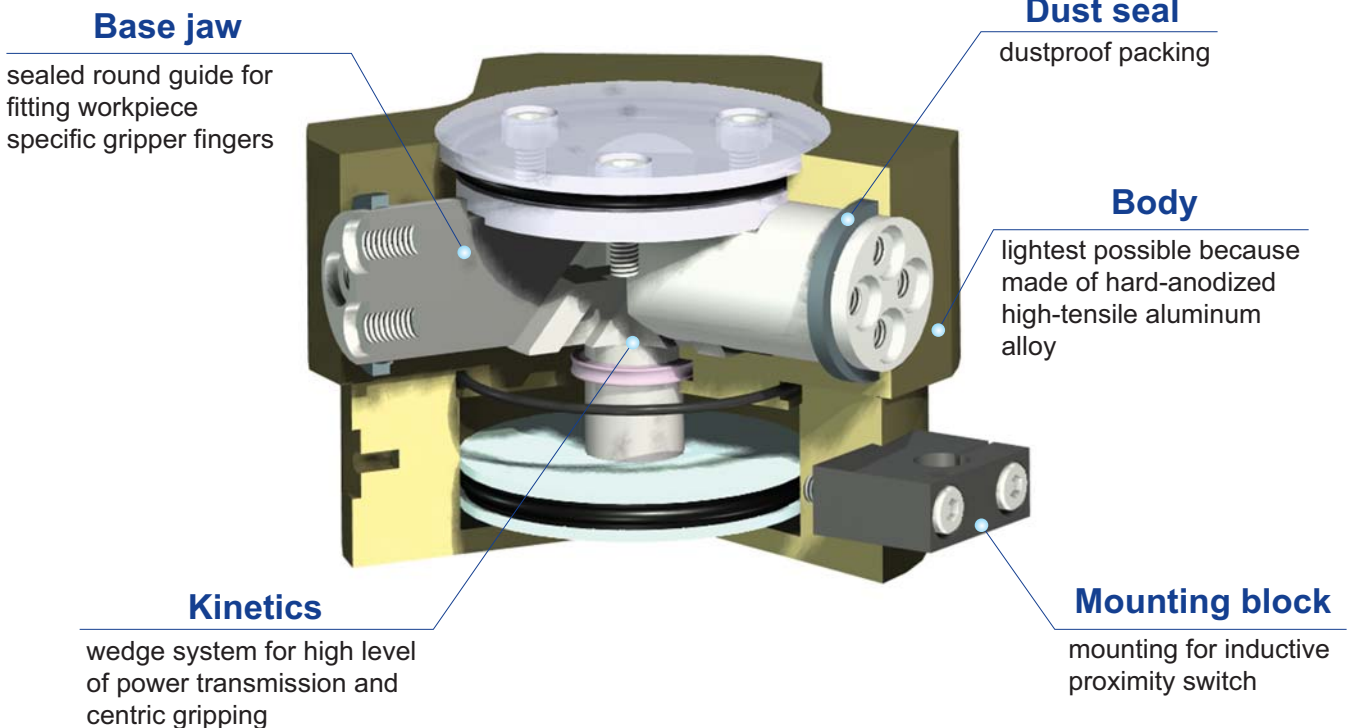
AF46DP-40,50,75

Character

- Seal guide for dustproof
- Compact design of the round guide
- Wedge guide driving unit
- Possible to use without the supply tube when you use back side support port
- Proximity sensor is available for open-close sensing

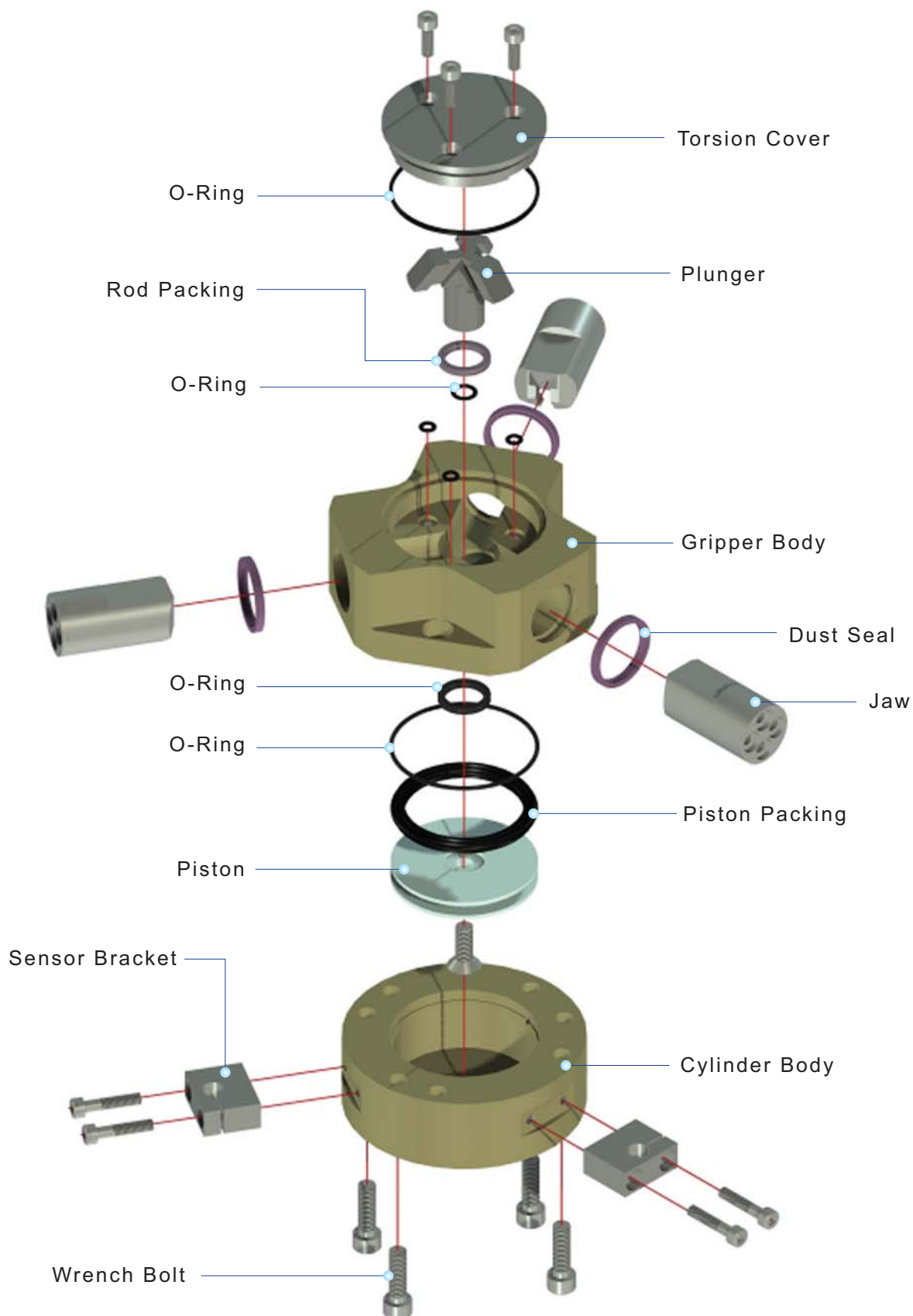


Dust proof type



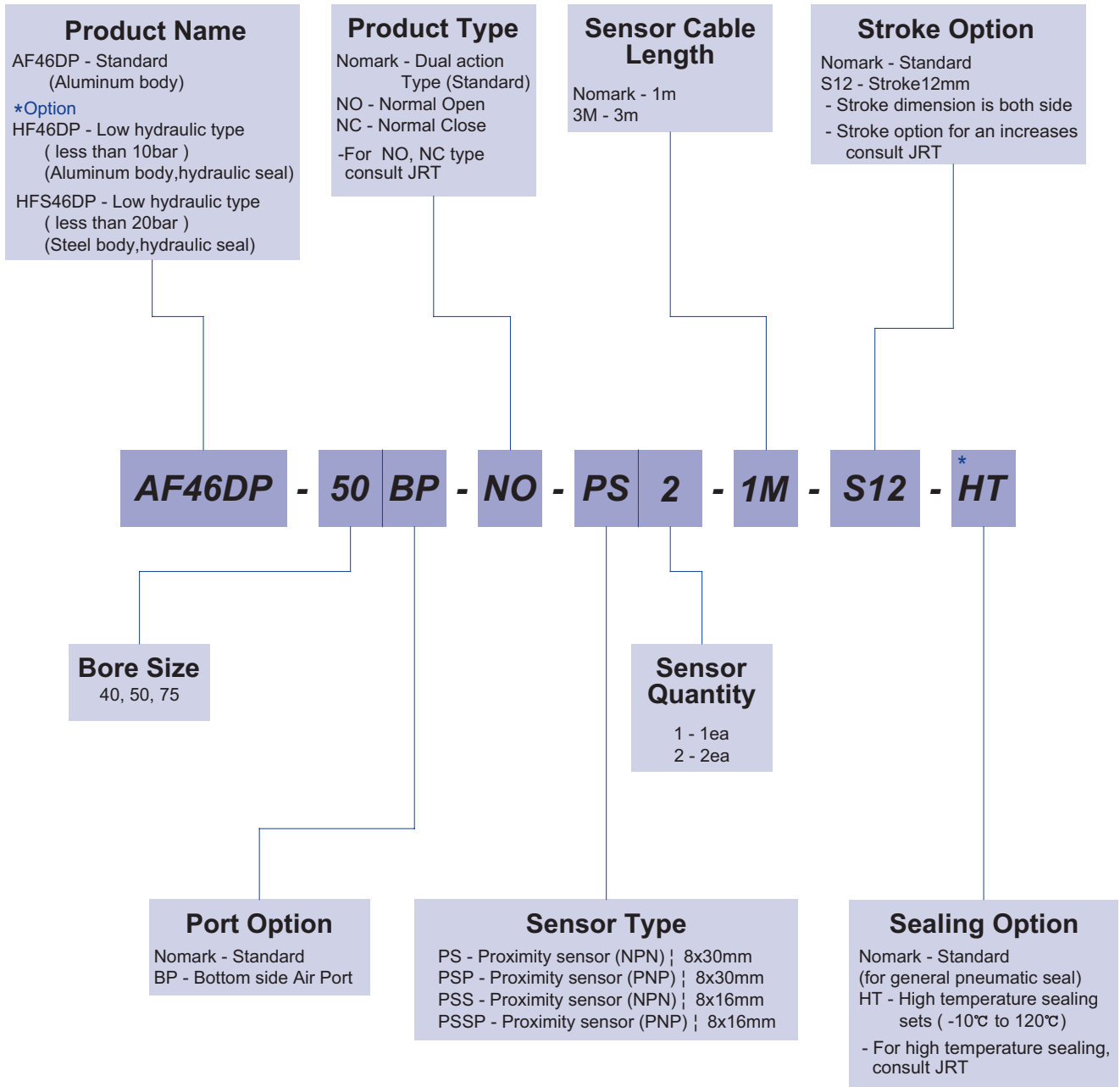
AF46DP

Exploded view



AF46DP

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF46DP

Specification

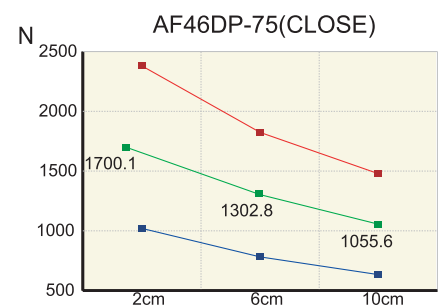
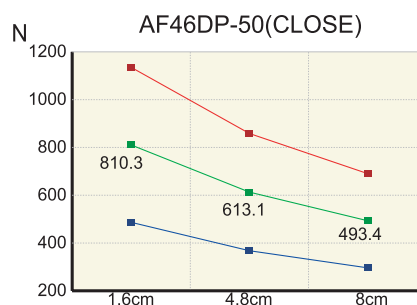
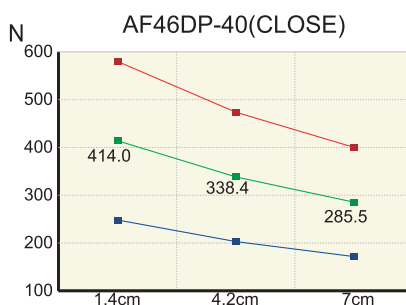
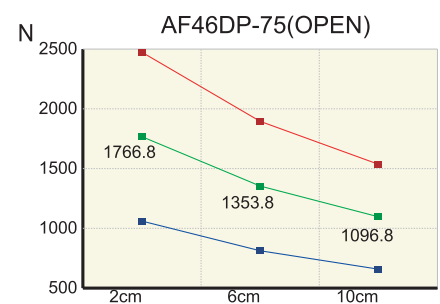
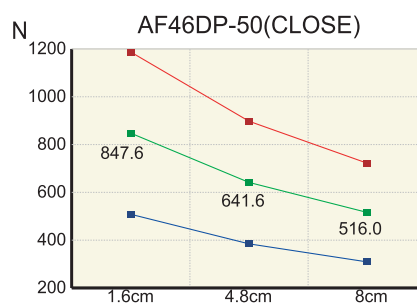
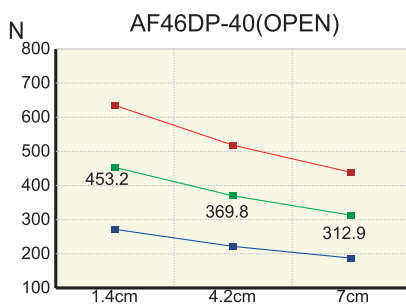
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF46DP-40	AF46DP-50	AF46DP-75	Unit
Stroke	12	16	20	mm
Weight	0.73	1.19	2.41	kg
Max. length of attach	70	80	100	mm
Fitting size	M5	M5	PF(G) 1/8	
Gripping force:Open	$102.02P/(1+0.009L)$	$202.09P/(1+0.012L)$	$416.93P/(1+0.009L)$	N
Gripping force:Close	$93.02P/(1+0.009L)$	$193.26P/(1+0.012L)$	$401.23P/(1+0.009L)$	N
Air consumption per cycle	17.3	36.2	103.6	cm ³
Closing / Opening time	0.02 / 0.02	0.04 / 0.04	0.10 / 0.10	sec
* Repeat accuracy	0.01	0.01	0.01	mm
Max.cycle per minute	50	50	40	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

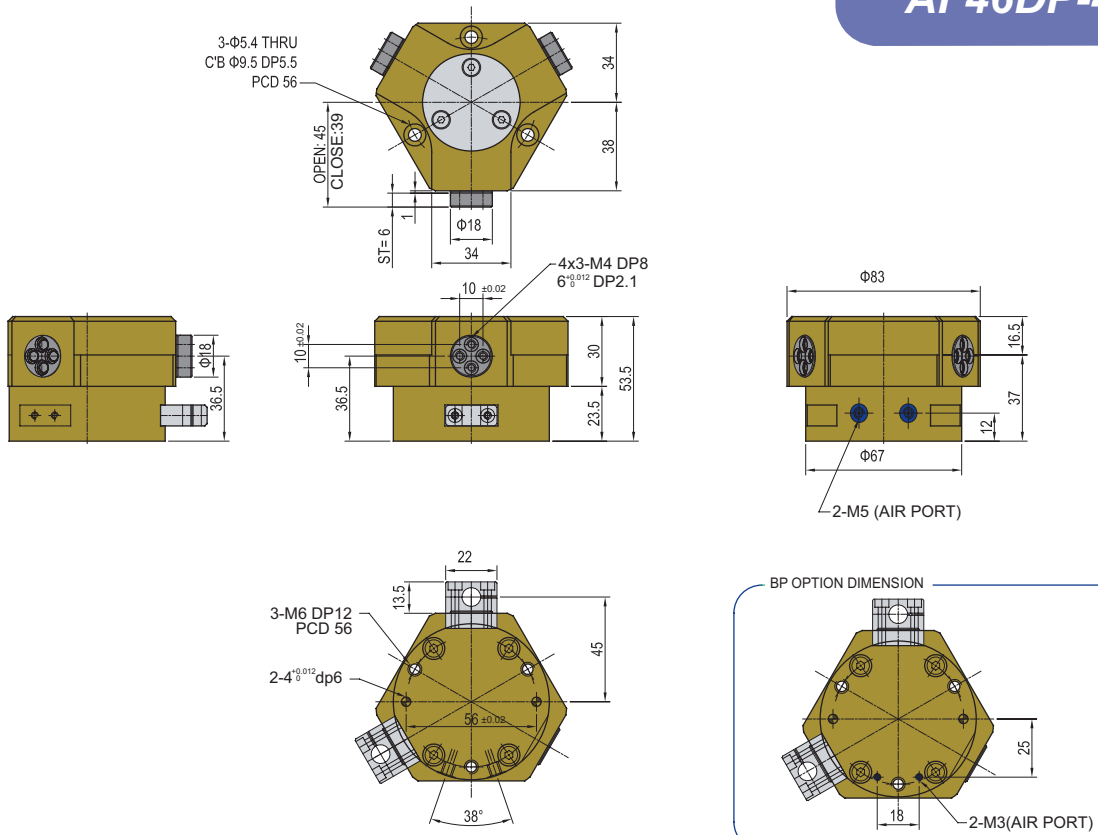
Gripping Force per exertion length

Legend ■ 7[bar] ■ 5[bar] ■ 3[bar]

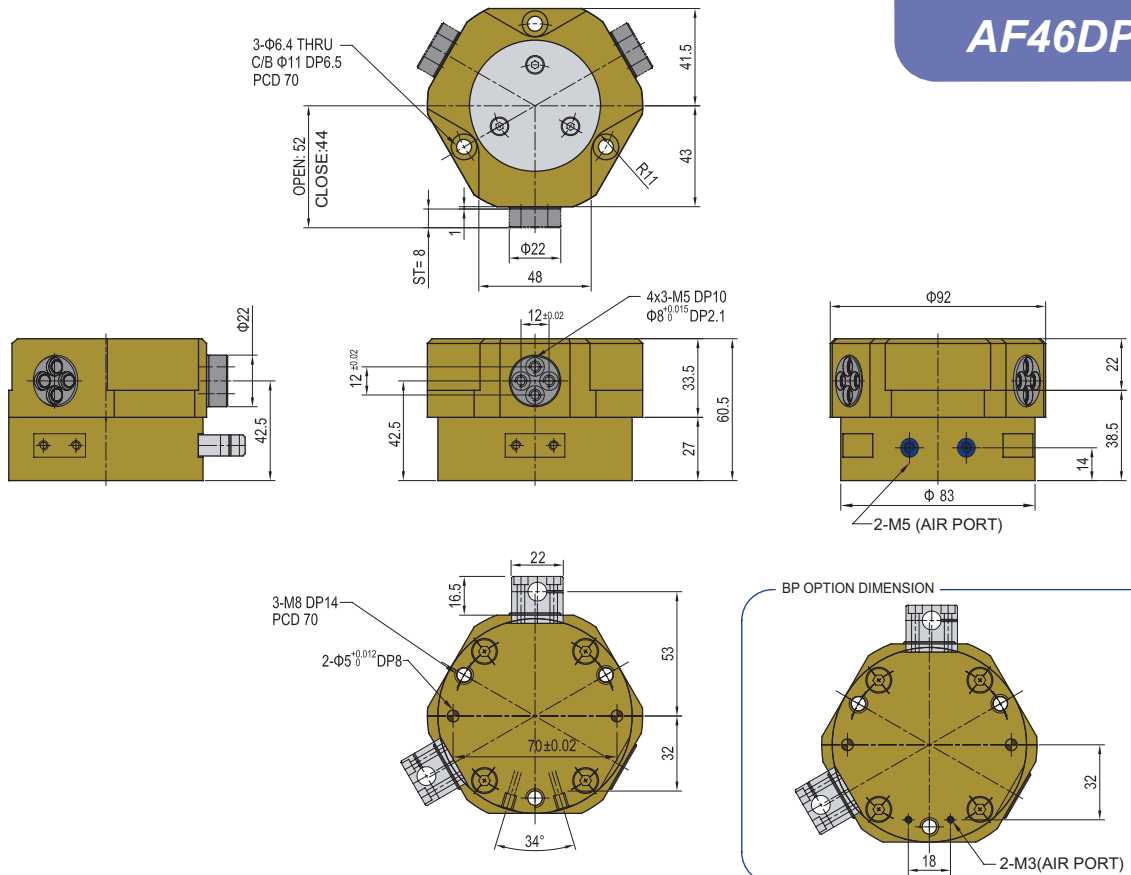


AF46DP

AF46DP-40

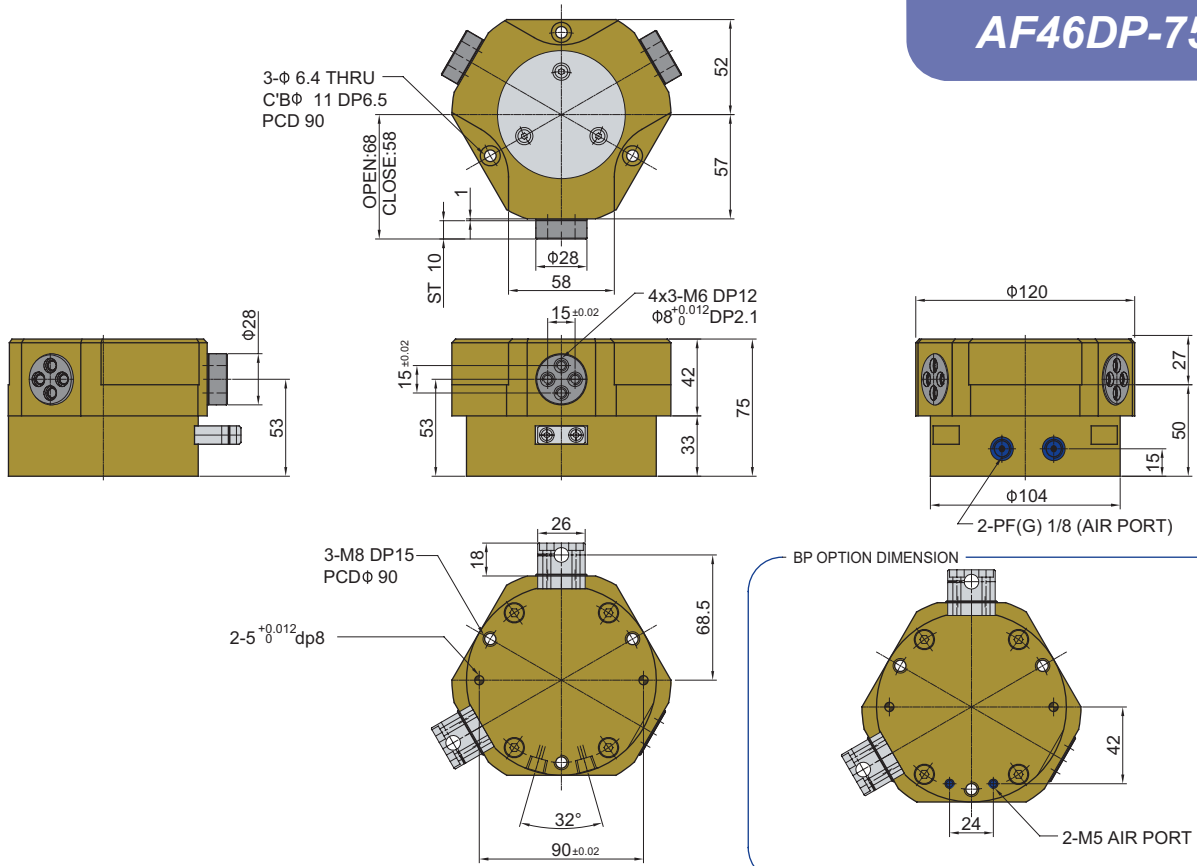


AF46DP-50



AF46DP

AF46DP-75



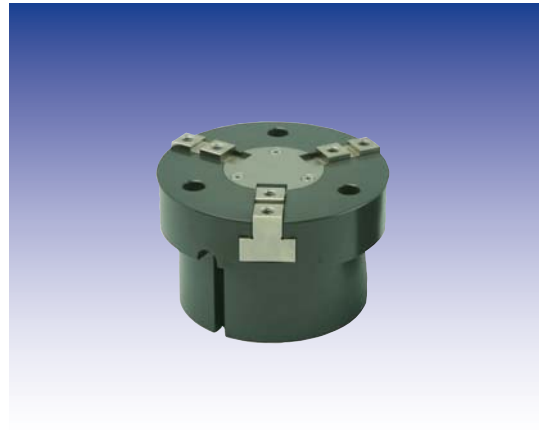
Note

Gripper

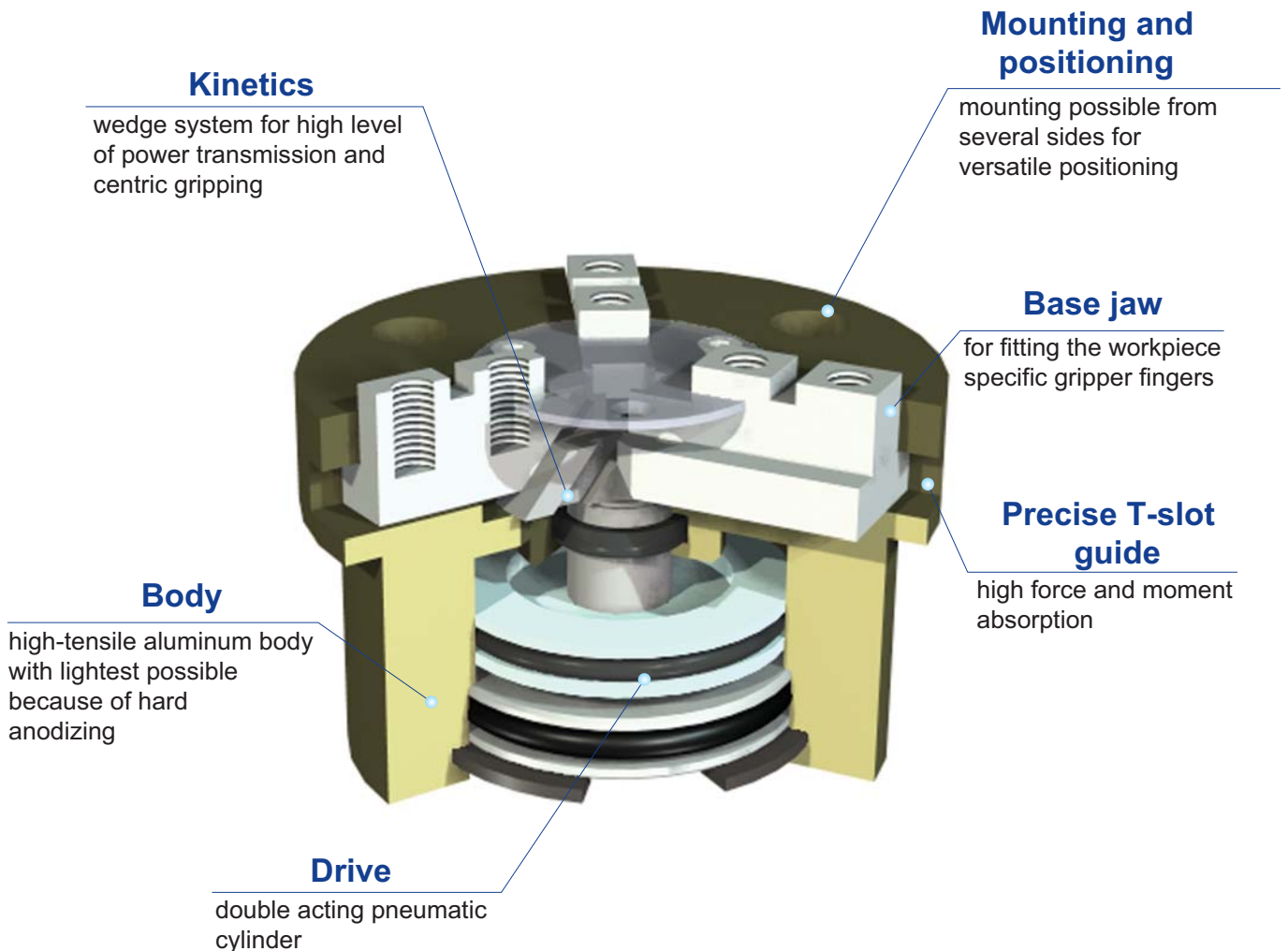
AF56N-20,25,32,40,50,63,80,100

Character

- Compact structure by wedge guide driving unit
- Possible to use without the supply tube when you use back side support port(BP option)
- Easy to grip the center of workpiece by the cylindrical structure
- Magnetic sensor is available for open-close sensing

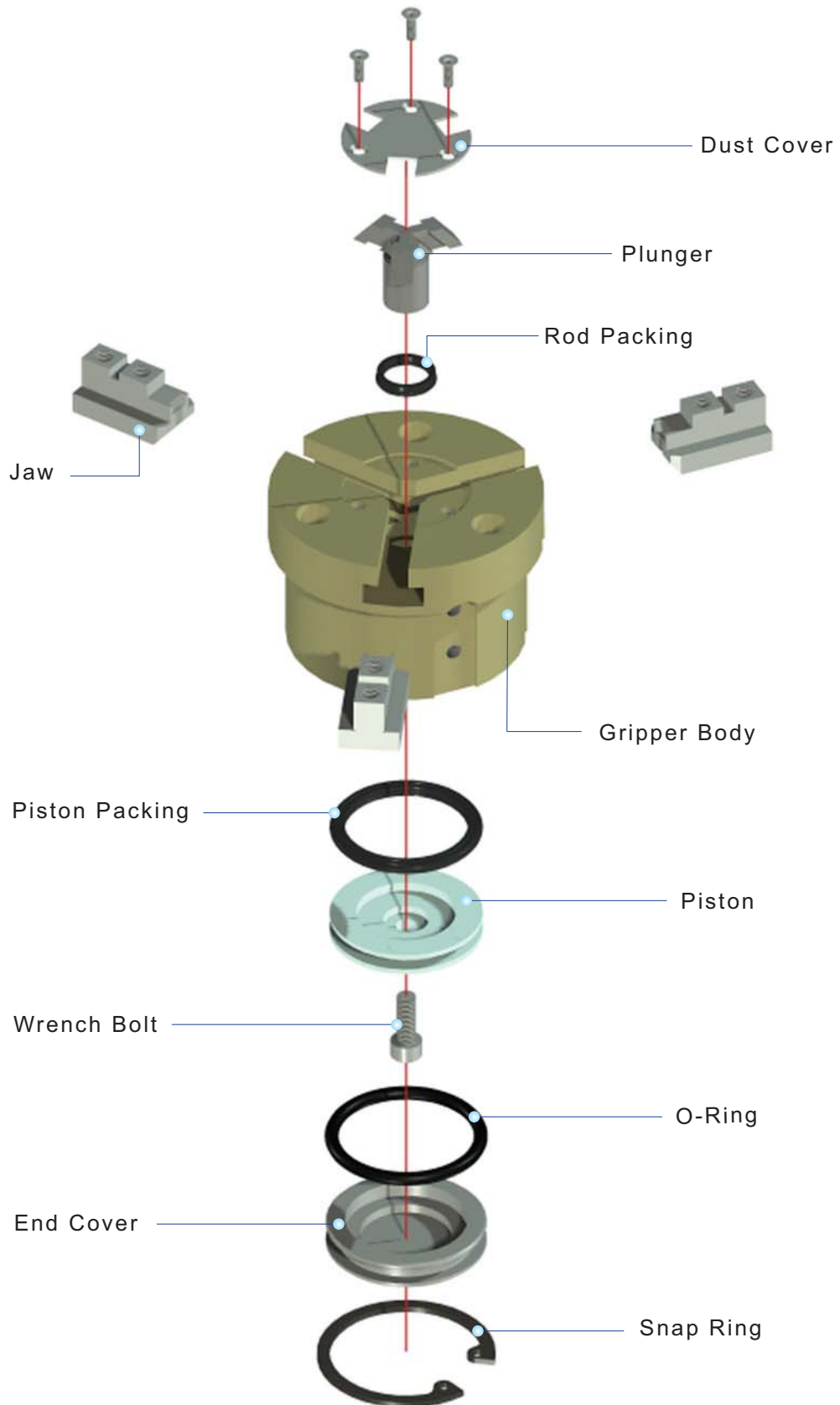


Wedge type 3 jaw



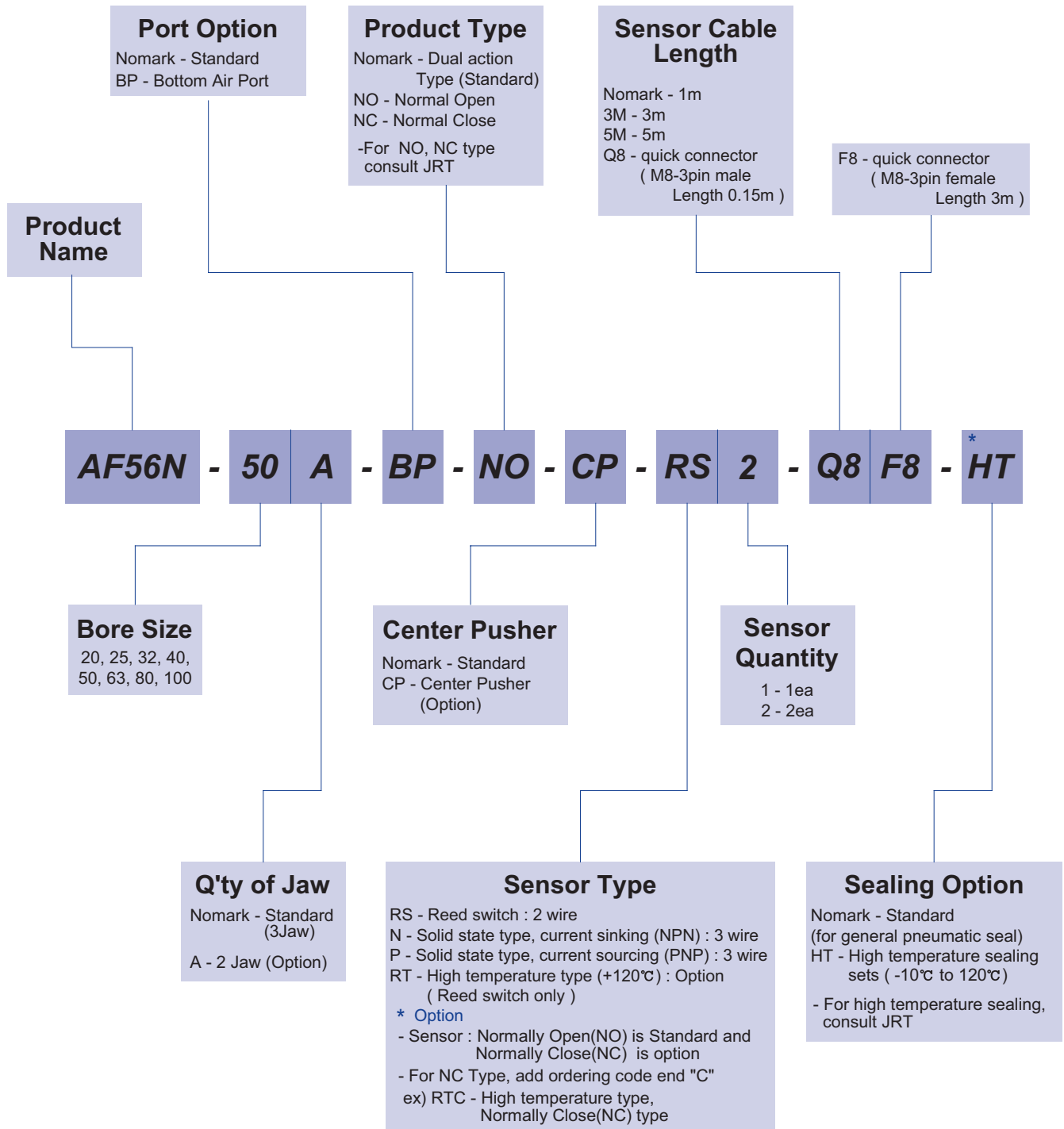
AF56N

Exploded view



AF56N

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF56N

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF56N-20B	AF56N-25B	AF56N-32B	AF56N-40B	Unit
Stroke	5	6	8	10	mm
Weight	0.15	0.23	0.26	0.4	kg
Max. length of attach	30	40	50	60	mm
Fitting size	M5	M5	M5	M5	
Gripping force:Open	25.51P/(1+0.016L)	37.28P/(1+0.012L)	56.90P/(1+0.009L)	103.99P/(1+0.007L)	N
Gripping force:Close	22.56P/(1+0.016L)	31.39P/(1+0.012L)	52.97P/(1+0.009L)	95.16P/(1+0.007L)	N
Air consumption per cycle	1.8	3.4	7.6	14.9	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.02 / 0.02	0.02 / 0.02	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	60	50	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

P=Air Pressure[bar] , L=Exertion length[mm]

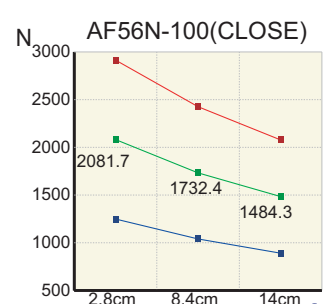
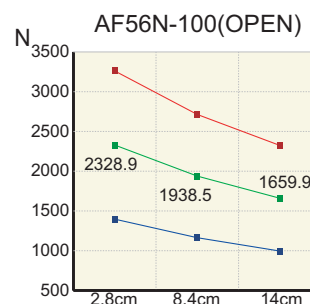
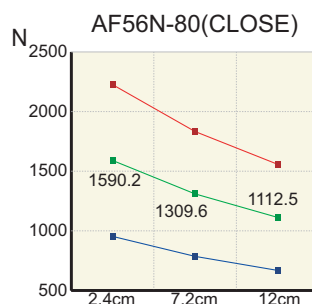
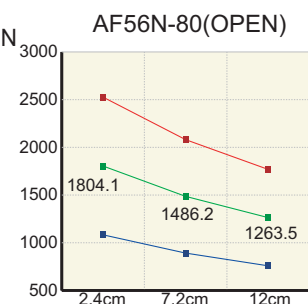
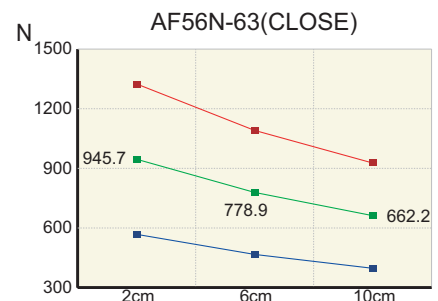
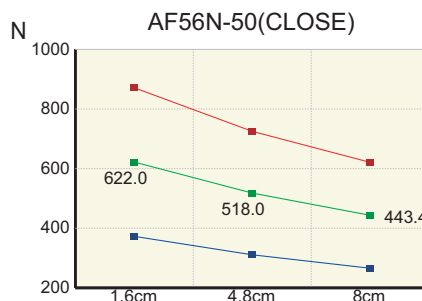
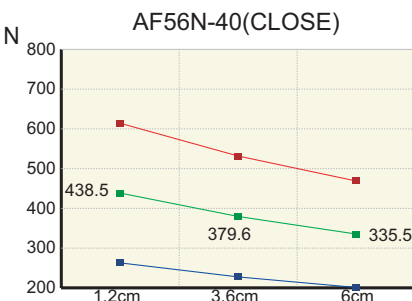
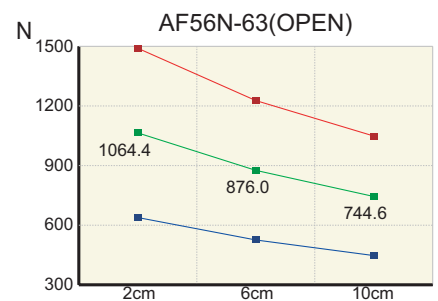
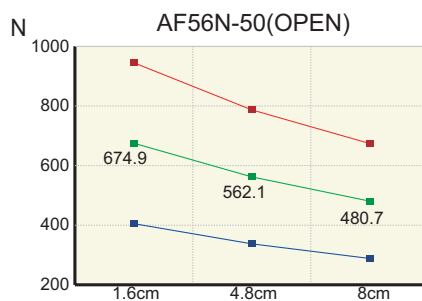
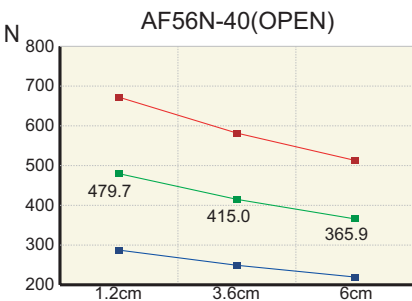
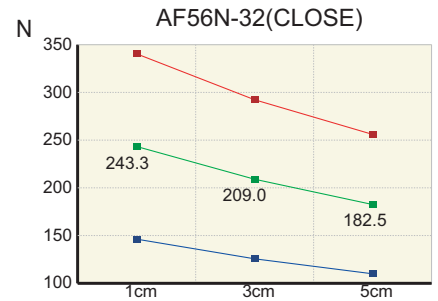
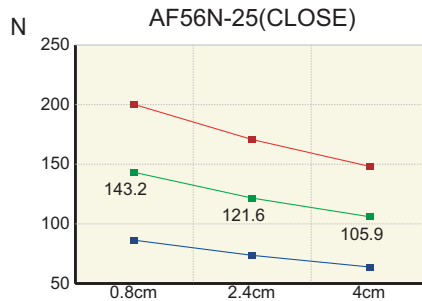
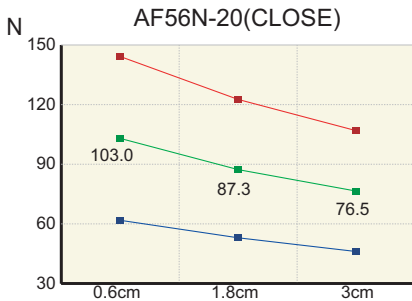
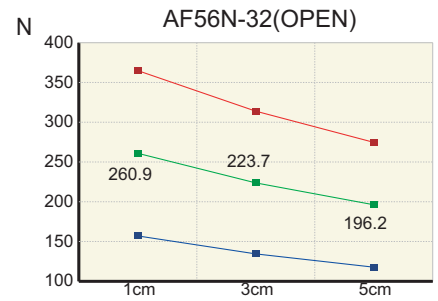
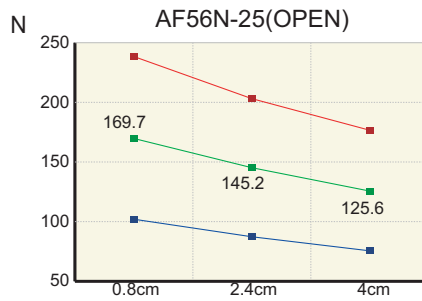
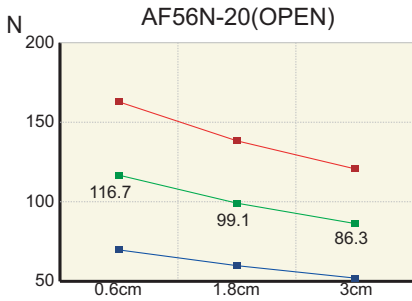
Products Name	AF56N-50B	AF56N-63B	AF56N-80B	AF56N-100B	Unit
Stroke	12	16	20	23	mm
Weight	0.72	1.2	2.1	3.4	Kg
Max. length of attach	80	100	120	140	mm
Fitting size	M5	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	150.09P/(1+0.007L)	238.38P/(1+0.006L)	404.17P/(1+0.005L)	517.97P/(1+0.004L)	N
Gripping force:Close	138.32P/(1+0.007L)	211.90P/(1+0.006L)	356.10P/(1+0.005L)	463.03P/(1+0.004L)	N
Air consumption per cycle	27.9	59.7	115.9	214.6	cm ³
Closing / Opening time	0.03 / 0.03	0.06 / 0.06	0.12 / 0.12	0.22 / 0.22	sec
* Repeat accuracy	0.01	0.01	0.01	0.02	mm
Max.cycle per minute	50	50	40	30	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

AF56N

Gripping Force per exertion length

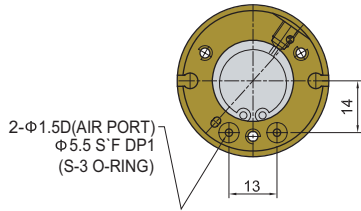
Legend : —■— 7[bar] —■— 5[bar] —■— 3[bar]



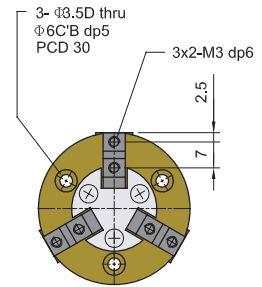
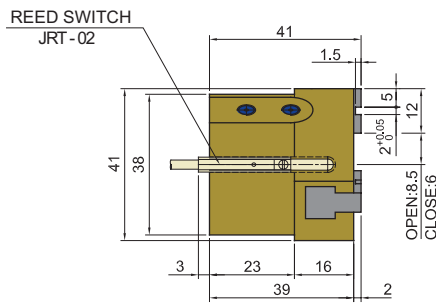
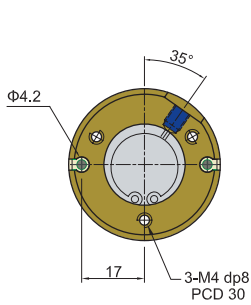
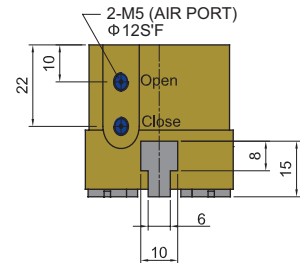
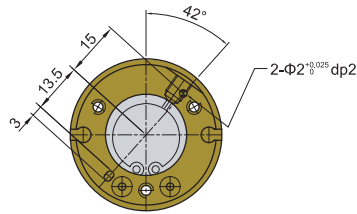
AF56N

AF56N-20B

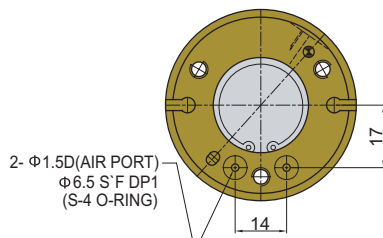
BP OPTION DIMENSION



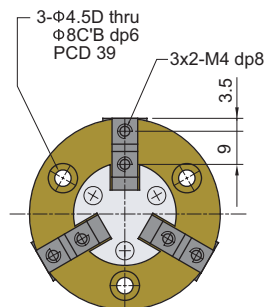
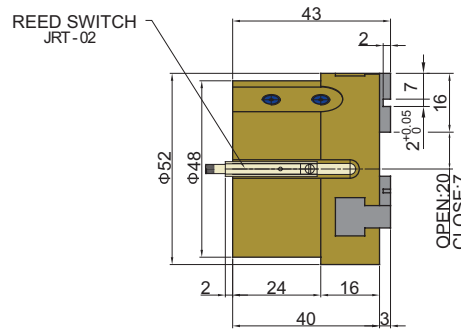
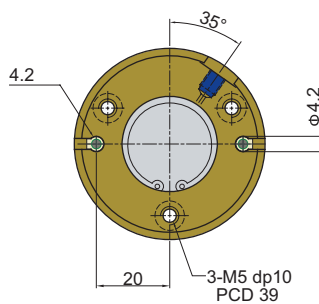
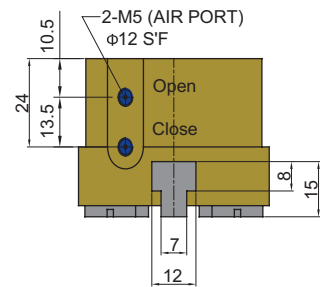
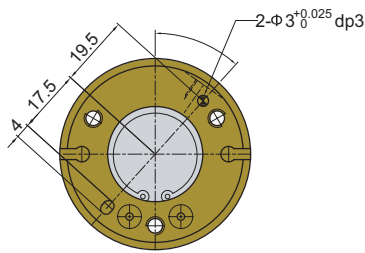
PH OPTION DIMENSION



BP OPTION DIMENSION



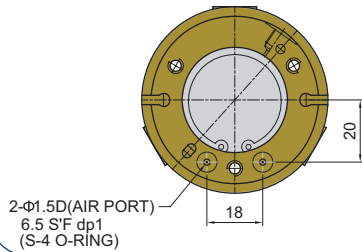
PH OPTION DIMENSION



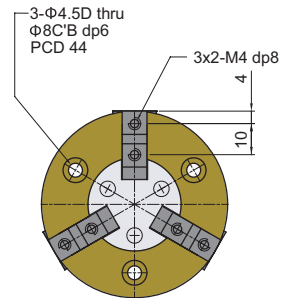
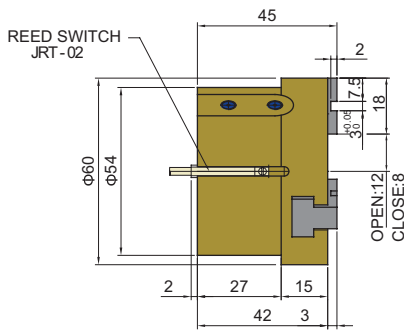
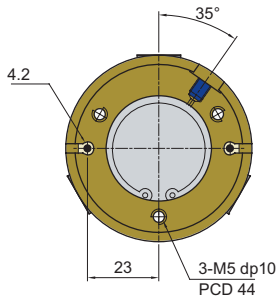
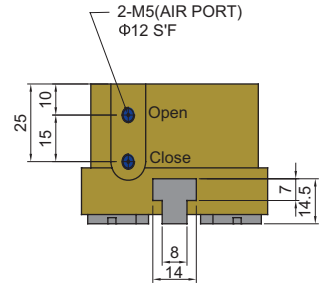
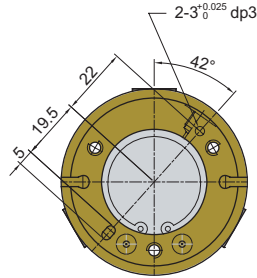
AF56N

AF56N-32B

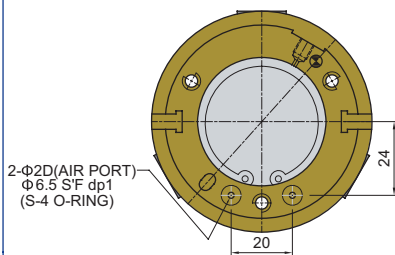
BP OPTION DIMENSION



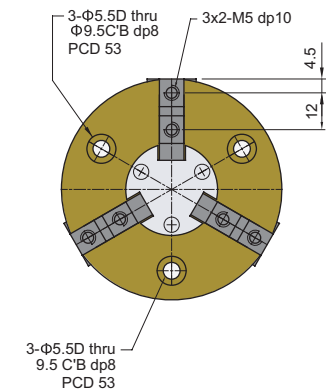
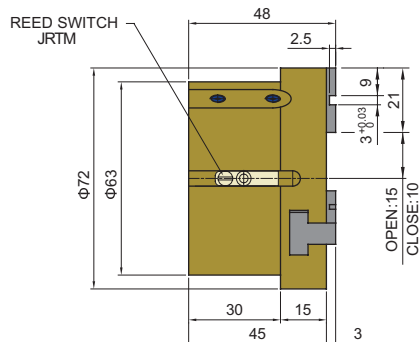
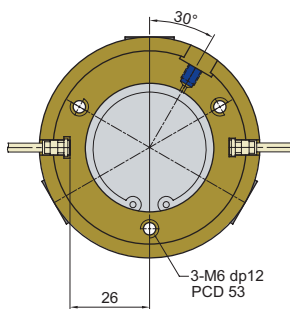
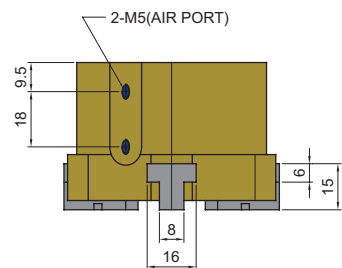
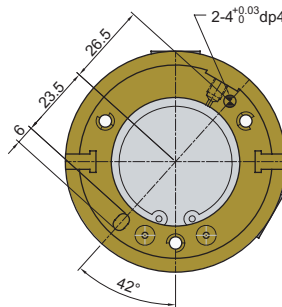
PH OPTION DIMENSION



BP OPTION DIMENSION



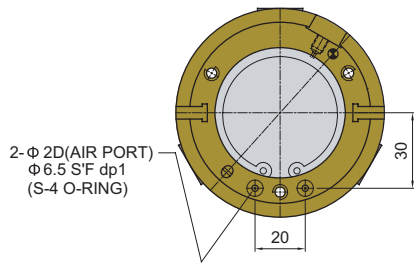
PH OPTION DIMENSION



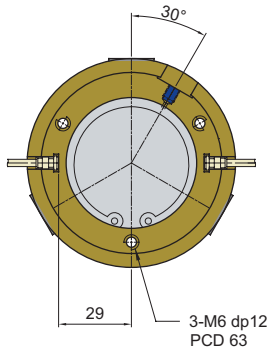
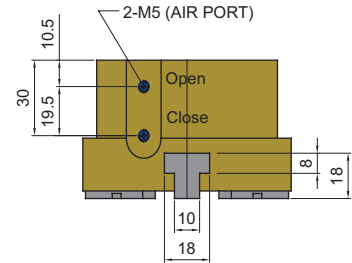
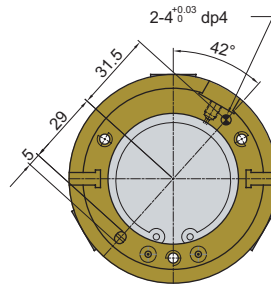
AF56N

AF56N-50B

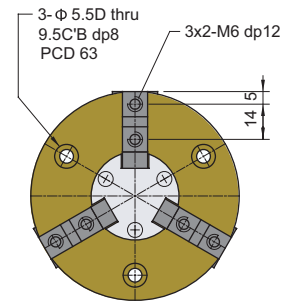
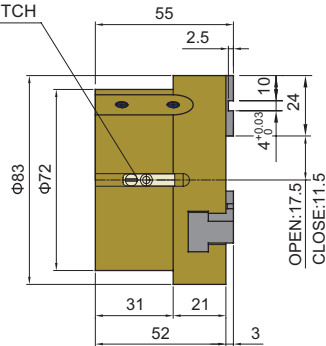
BP OPTION DIMENSION



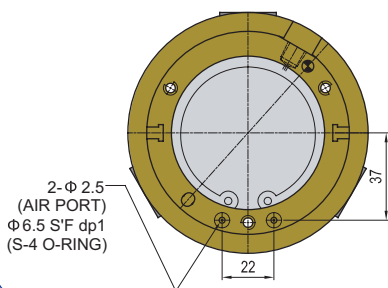
PH OPTION DIMENSION



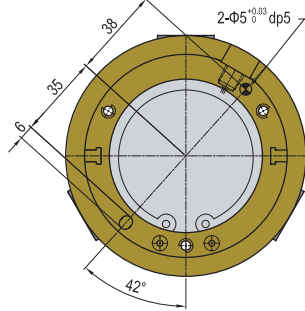
REED SWITCH
JRTM



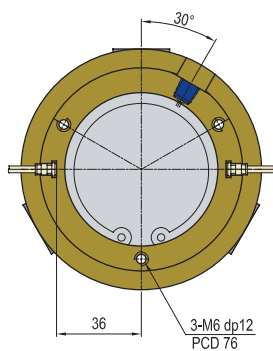
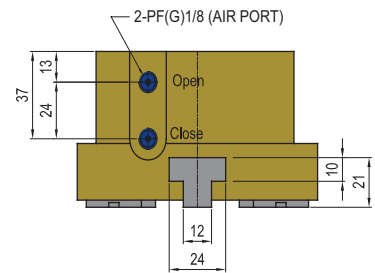
BP OPTION DIMENSION



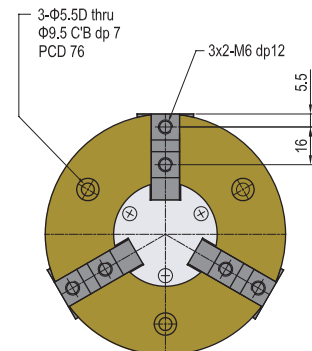
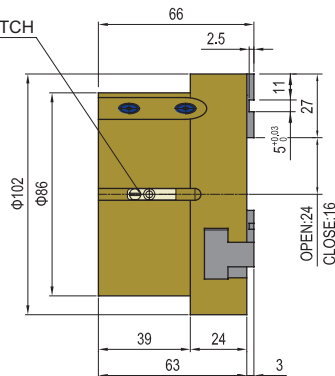
PH OPTION DIMENSION



AF56N-63B



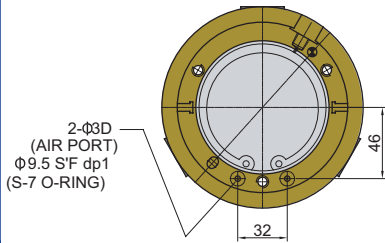
REED SWITCH
JRTM



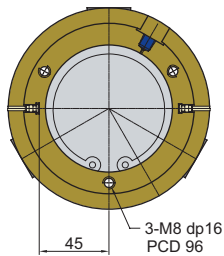
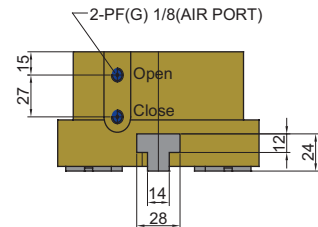
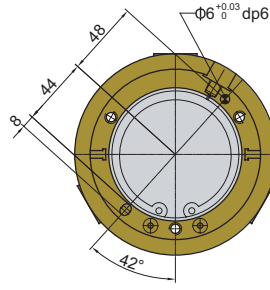
AF56N

AF56N-80B

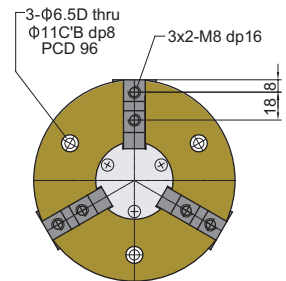
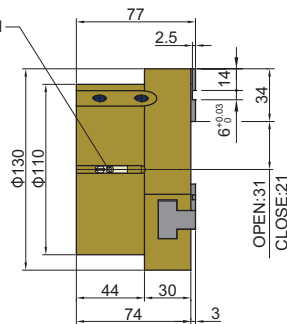
BP OPTION DIMENSION



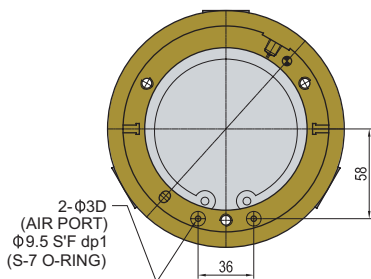
PH OPTION DIMENSION



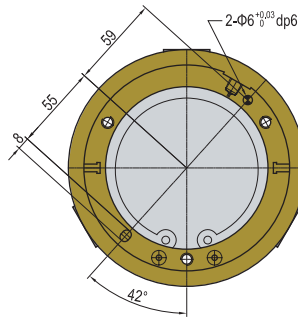
REED SWITCH
JRTM



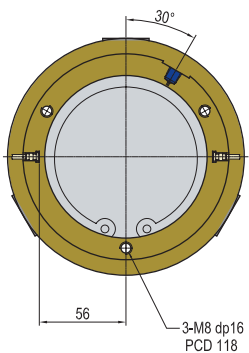
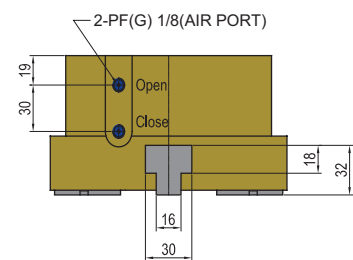
BP OPTION DIMENSION



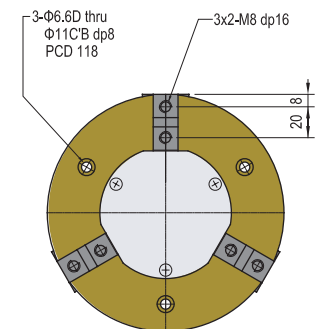
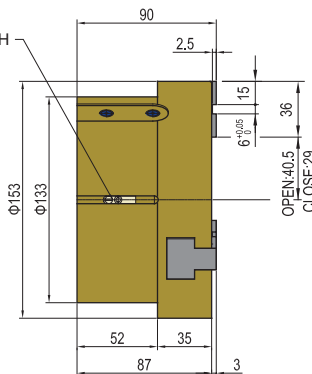
PH OPTION DIMENSION



AF56N-100B



REED SWITCH
JRTM



Notes

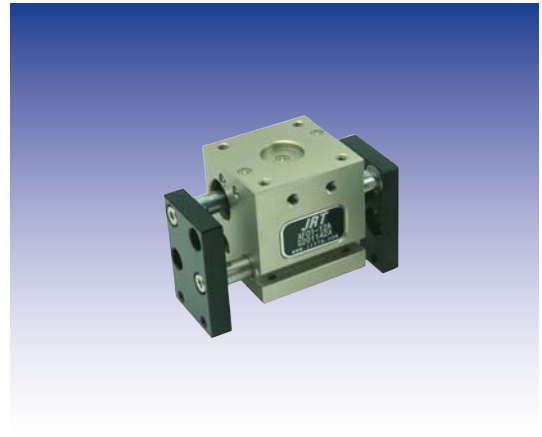
A large grid of dashed lines for writing notes. The grid consists of 20 columns and 25 rows of squares, with rounded corners on the top and bottom edges. The lines are light gray and spaced evenly across the page.

Gripper

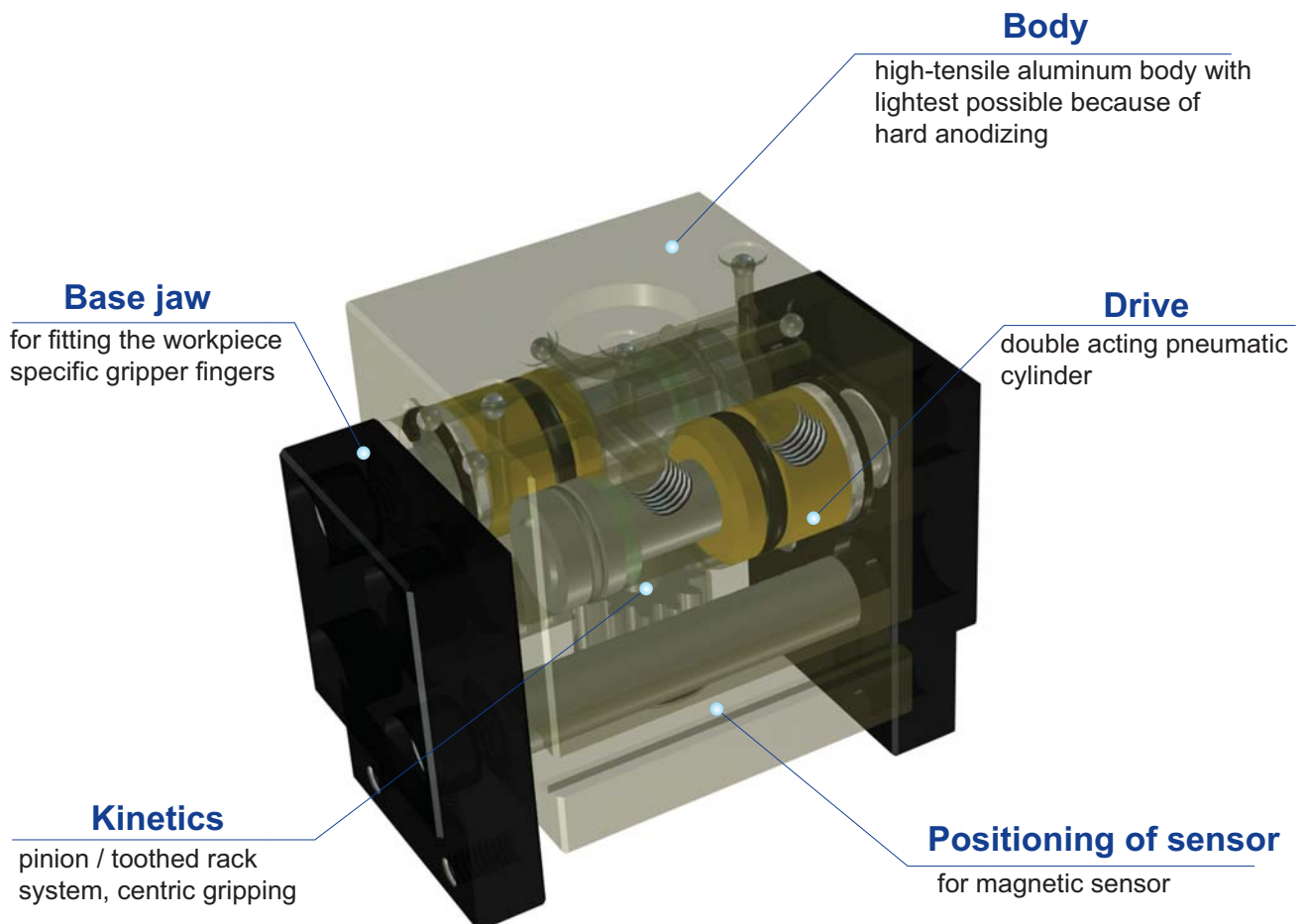
AF101-10,10N,12

Character

- Rack & pinion type
- High gripping forces by the structure of synchronized dual piston
- Magnetic sensor is available for open-close sensing
- AF101-10 is old model (sensor is not available)

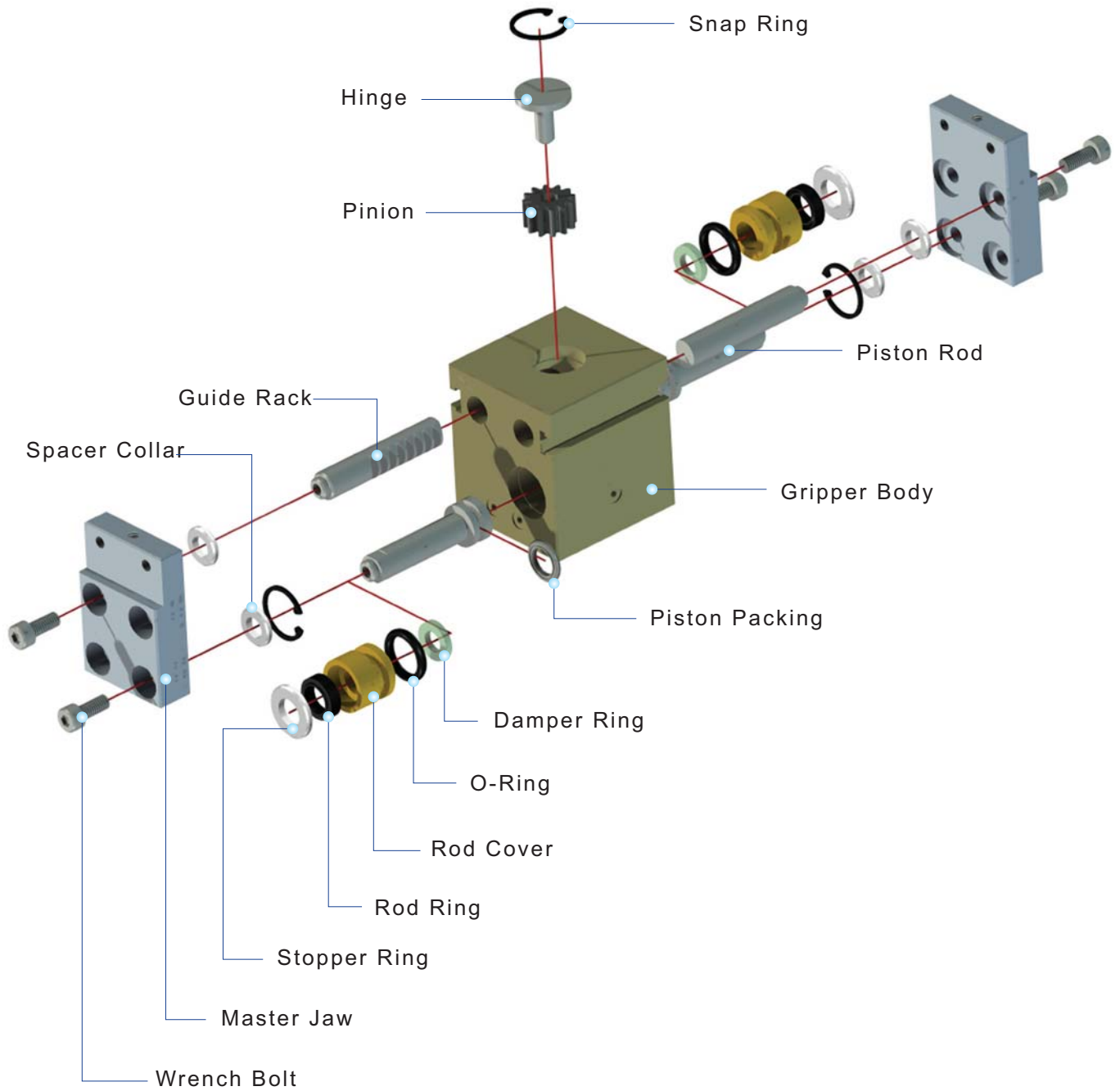


Rack & pinion type



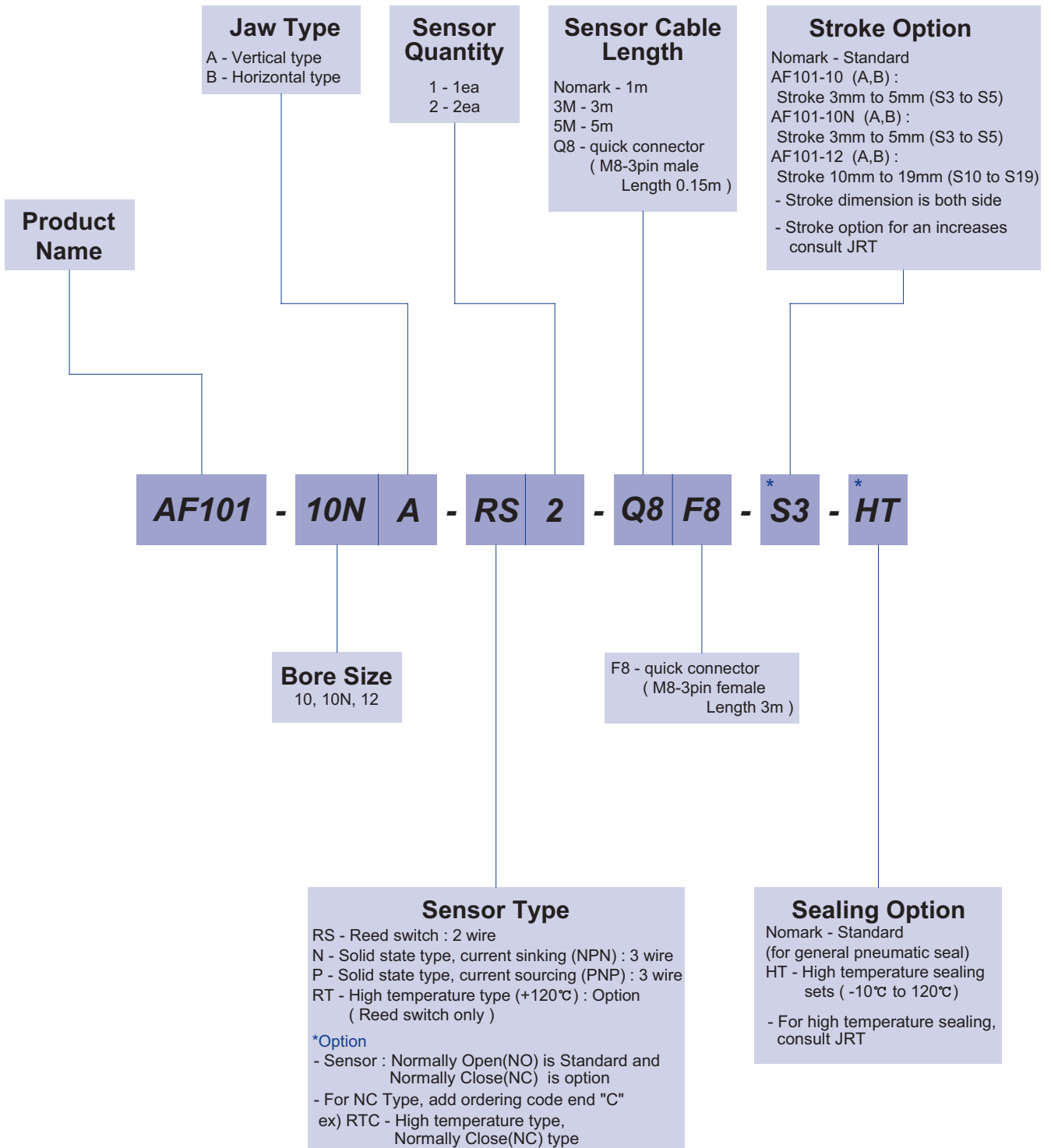
AF101

Exploded view



AF101

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF101

Specification

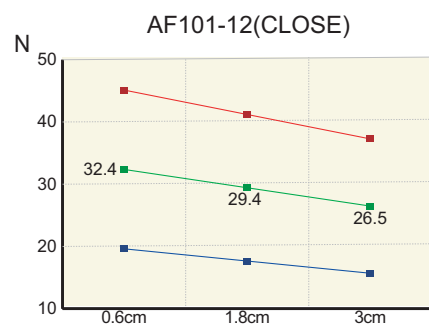
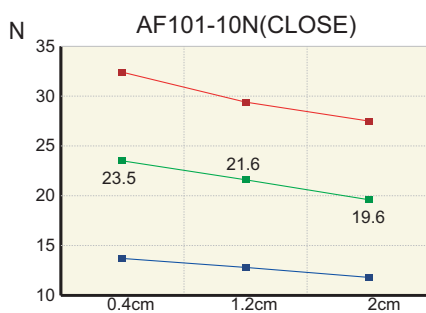
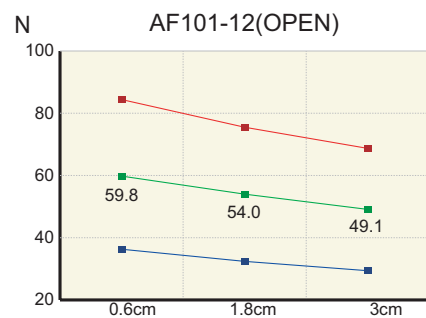
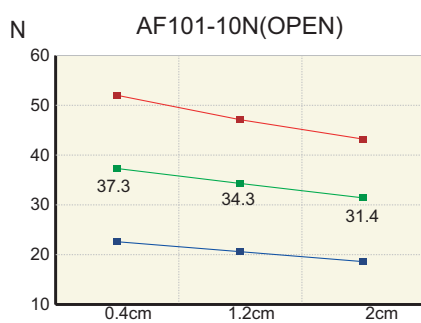
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF101-10N	AF101-12	Unit
Stroke	6	20	mm
Weight	0.14	0.29	kg
Max. length of attach	20	30	mm
Fitting size	M5	M5	
Gripping force:Open	$7.85P/(1+0.013L)$	$12.75P/(1+0.01L)$	N
Gripping force:Close	$4.91P/(1+0.013L)$	$6.86P/(1+0.01L)$	N
Air consumption per cycle	0.8	3.5	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.01	0.01	mm
Max.cycle per minute	60	60	
Operating pressure	3~7		bar
Ambient temperature	-5 to 60		°C
Lubrication	Needless		

* After 100 consecutive strokes to end positions

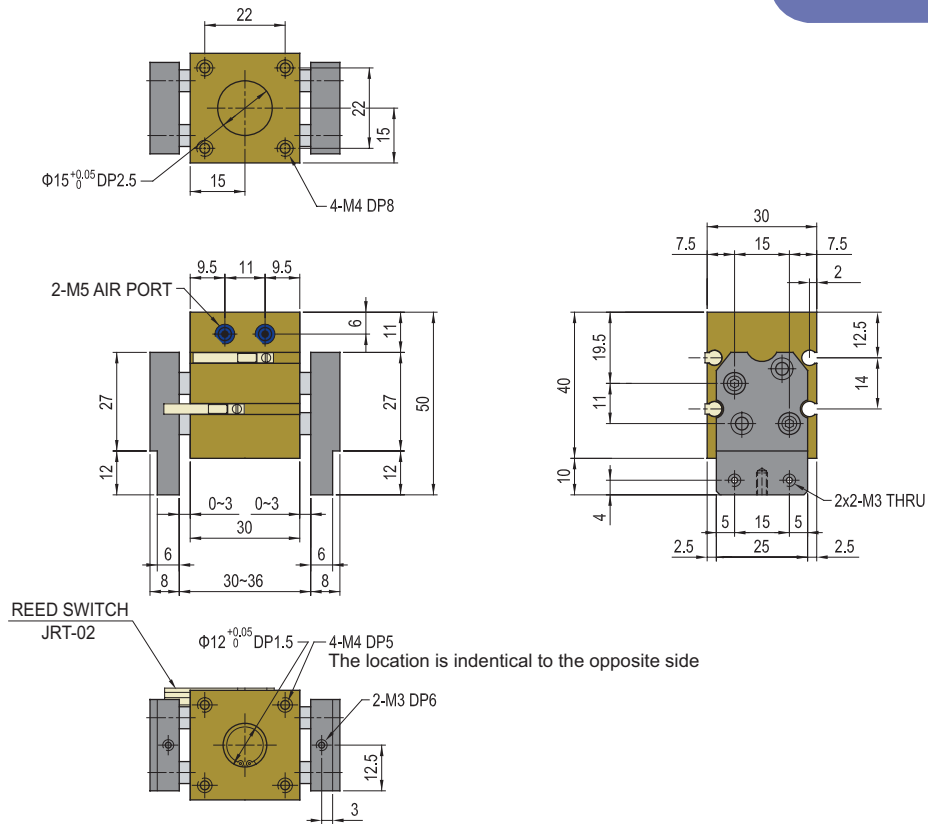
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

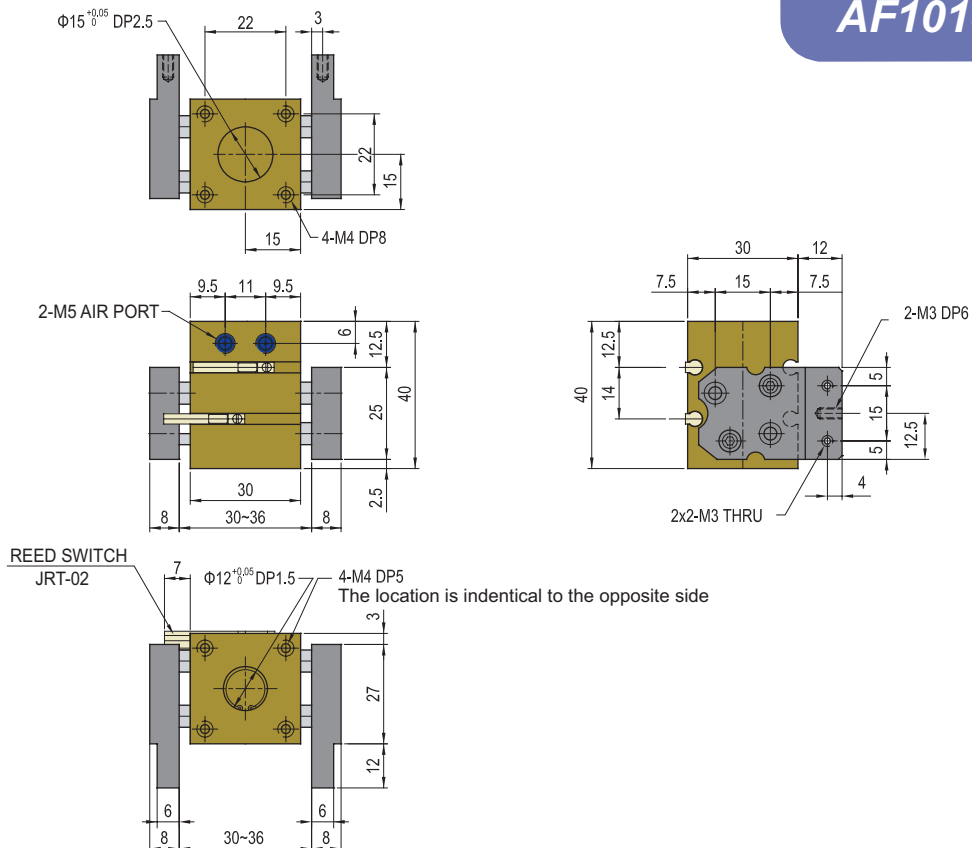


AF101

AF101-10NA

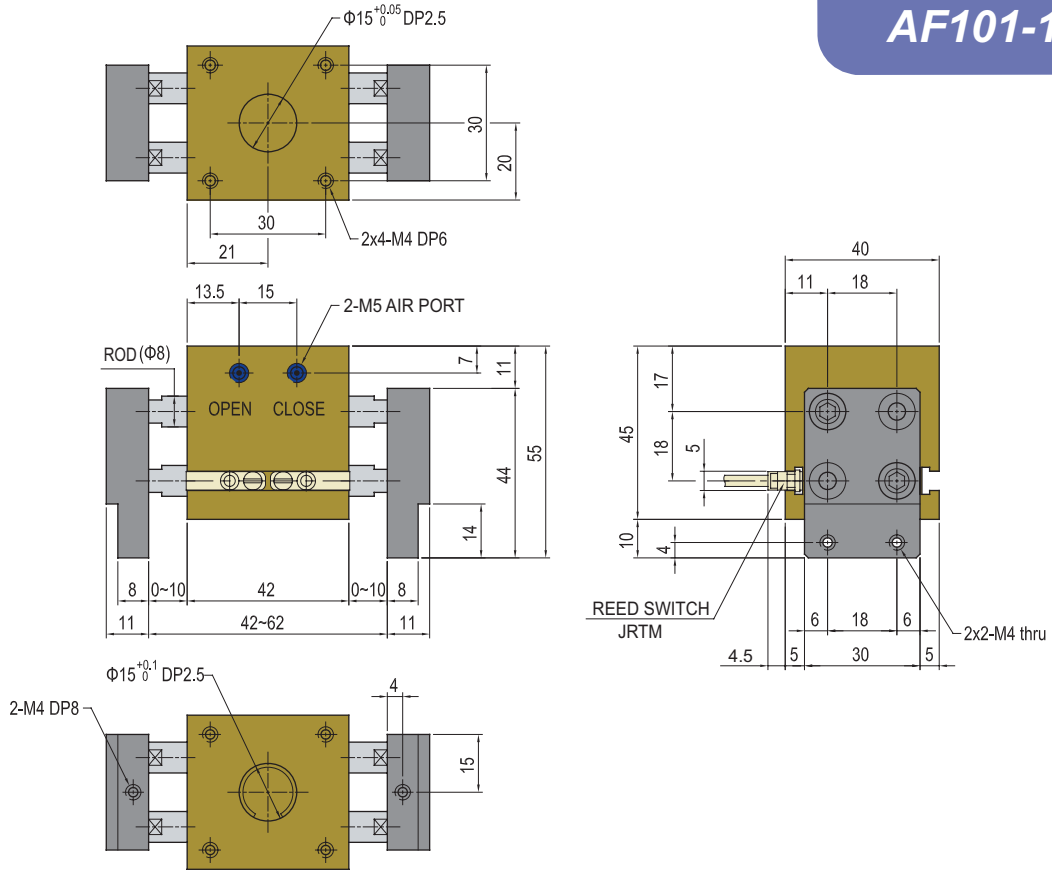


AF101-10NB

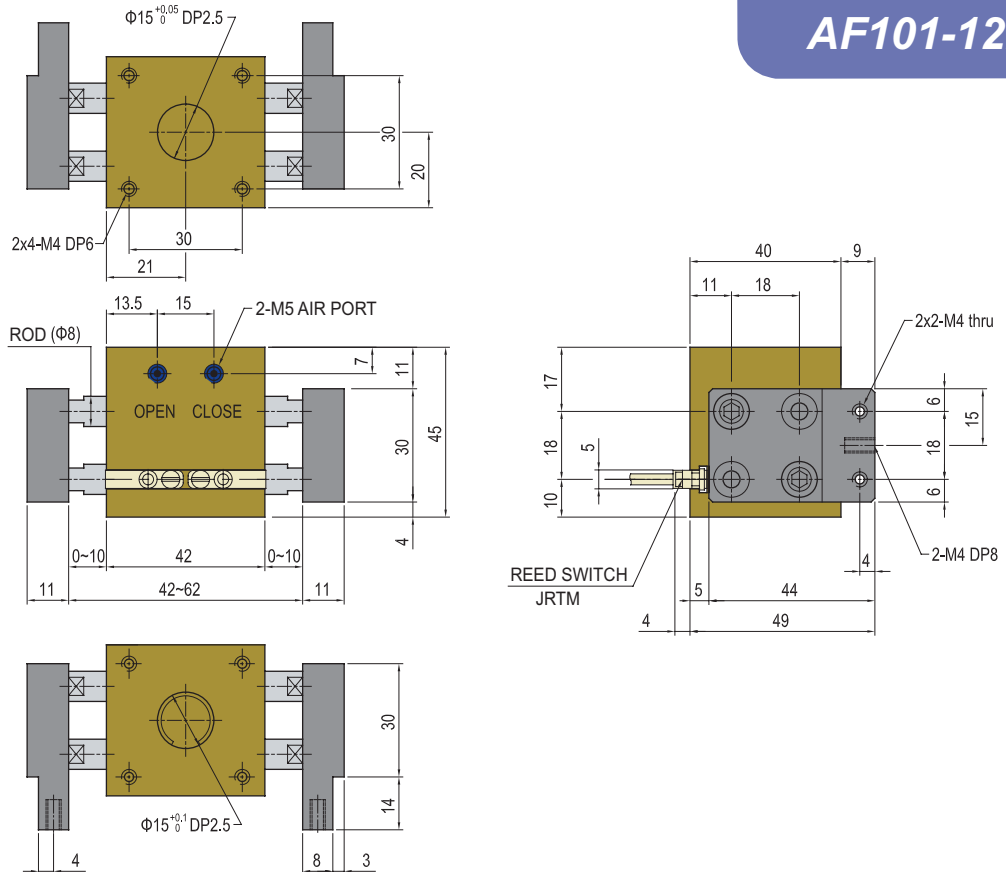


AF101

AF101-12A



AF101-12B



Gripper

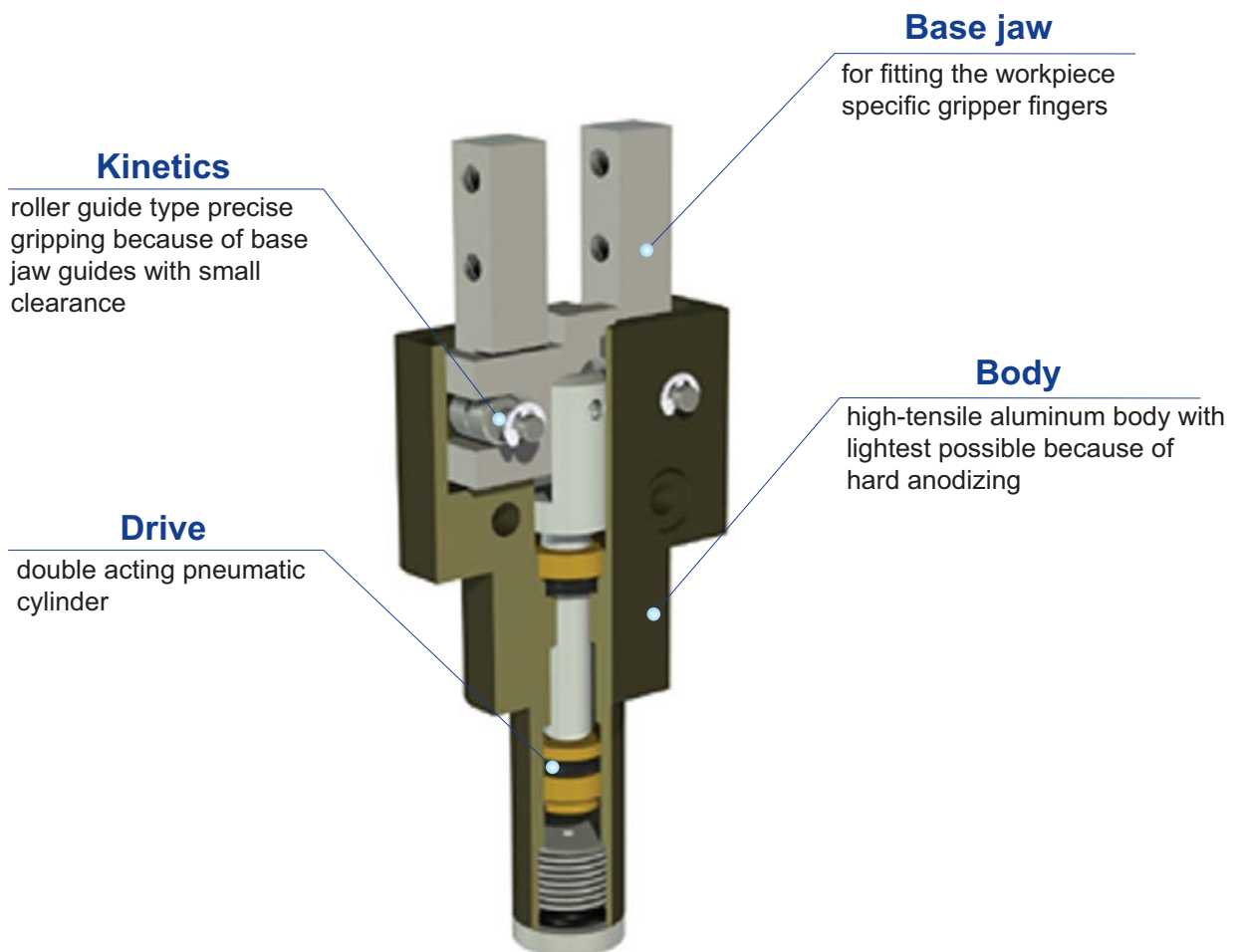
AF105P-08,10,16

Character

- Back pressure sensor is available only.
- Small size but strong grip force
- Taper sliding & roller guide type
- Easy to mount many grippers (compact body)

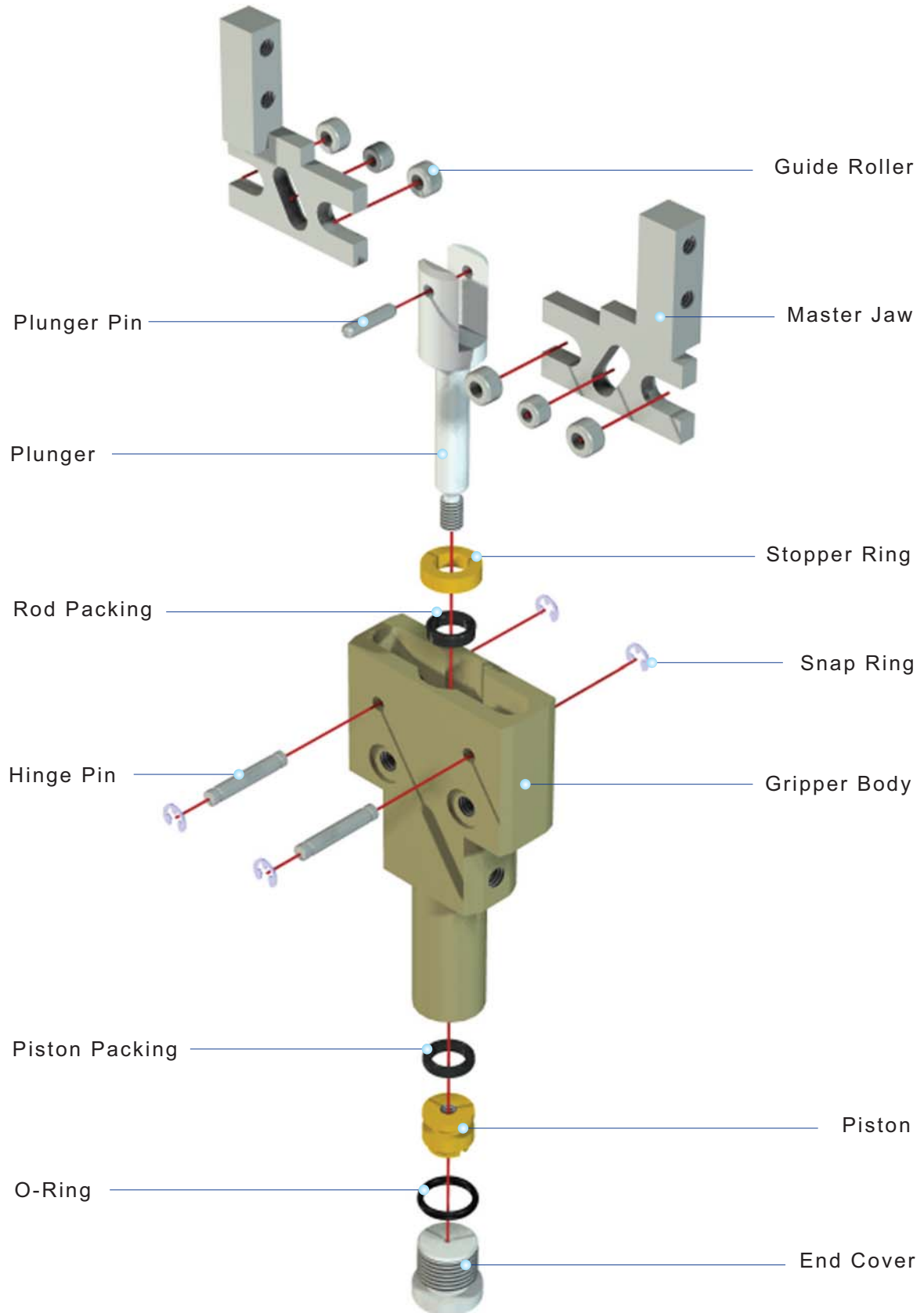


Roller guide type



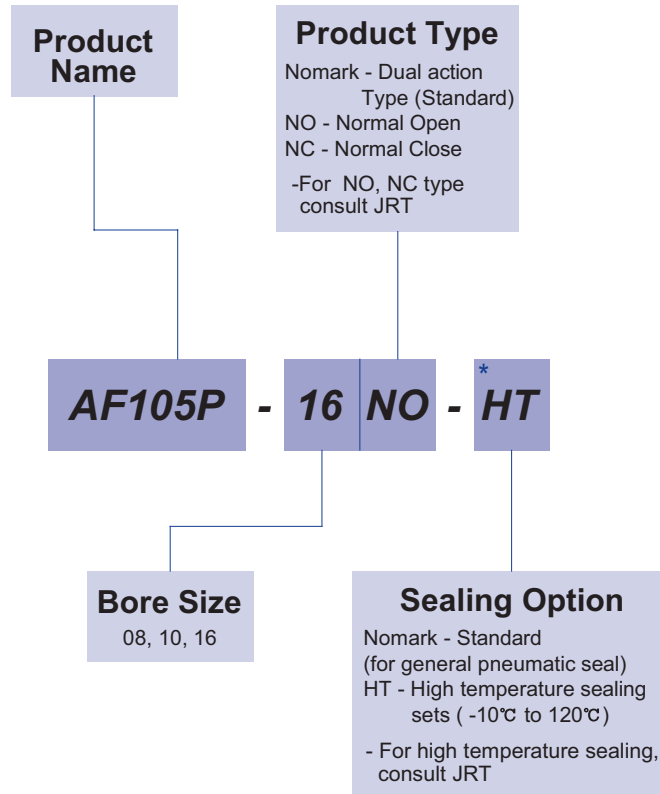
AF105P

Exploded view



AF105P

Ordering Code



This product sensor is only back pressure sensor

*The delivery of * mark option is longer than a standard, So inquire of JRT*

AF105P

Specification

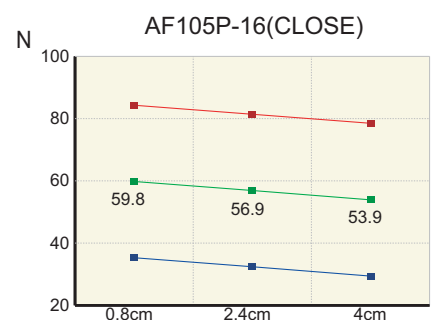
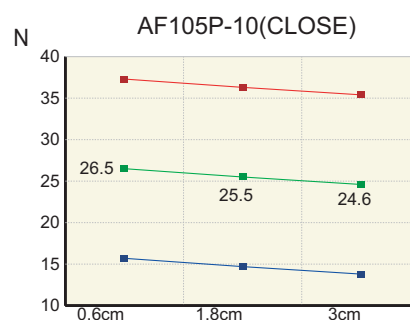
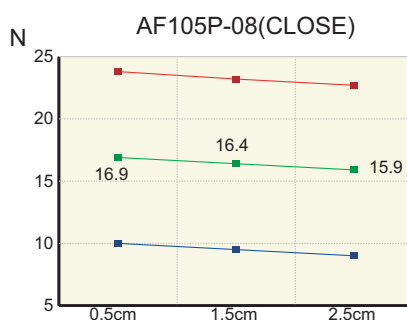
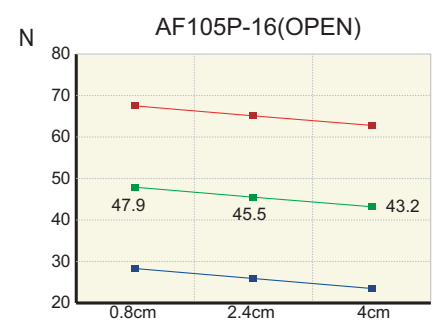
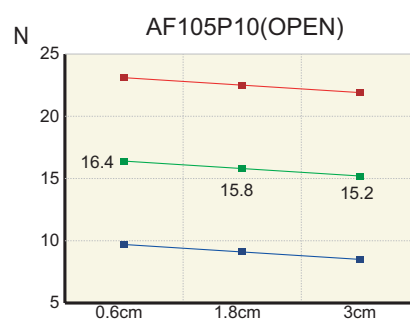
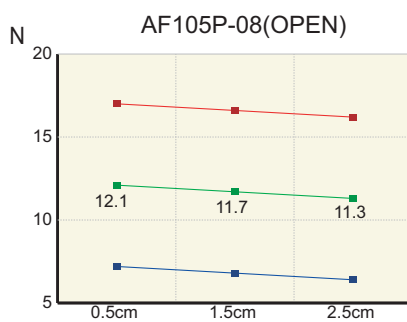
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF105P-8	AF105P-10	AF105P-16	Unit
Stroke	4	5	8	mm
Weight	0.06	0.11	0.27	kg
Max. length of attach	25	30	40	mm
Fitting size	M5	M5	M5	
Gripping force:Open	2.45(P-0.015L)	3.34(P-0.015L)	9.81(P-0.015L)	N
Gripping force:Close	3.43(P-0.015L)	5.40(P-0.015L)	12.26(P-0.015L)	N
Air consumption per cycle	0.2	0.3	1.4	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	60	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

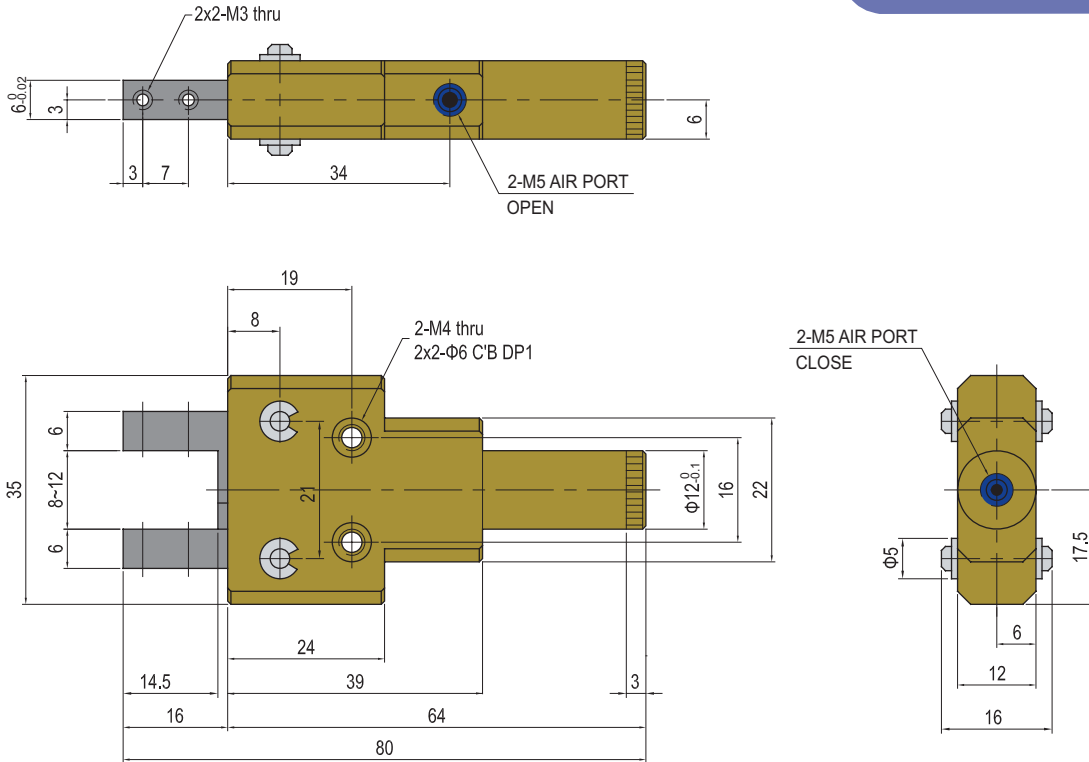
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

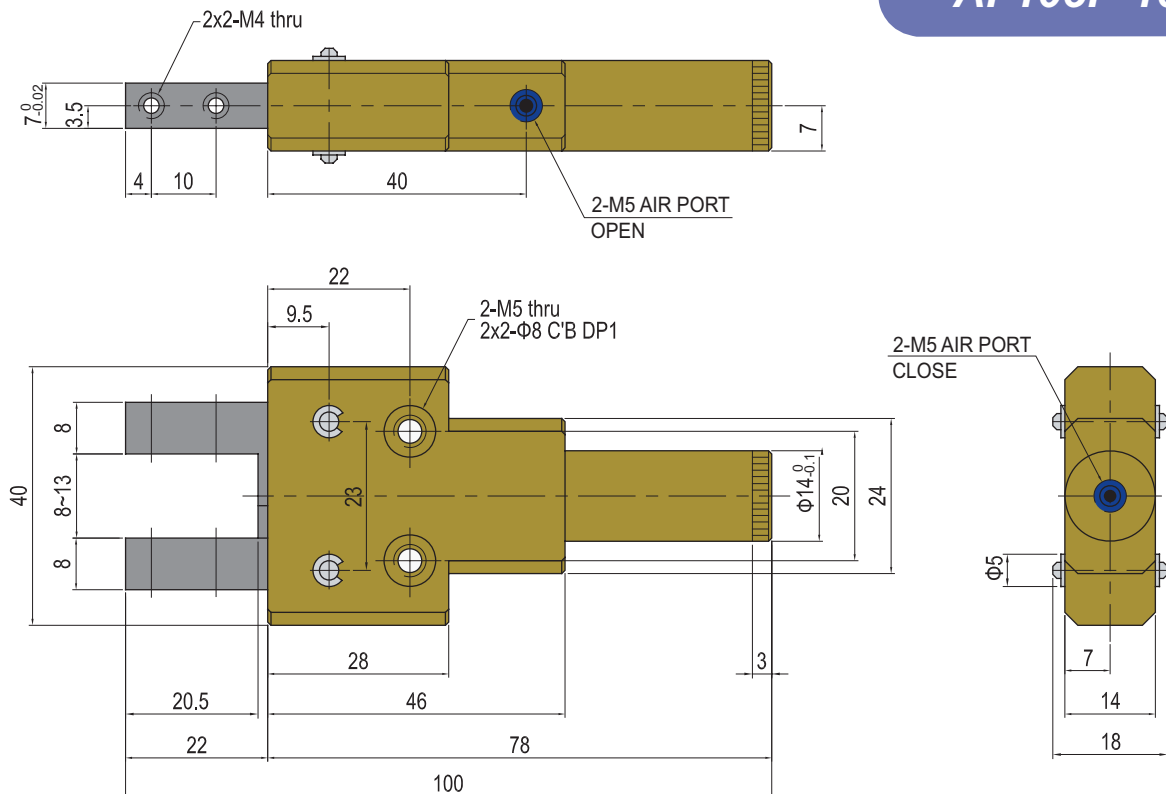


AF105P

AF105P-08

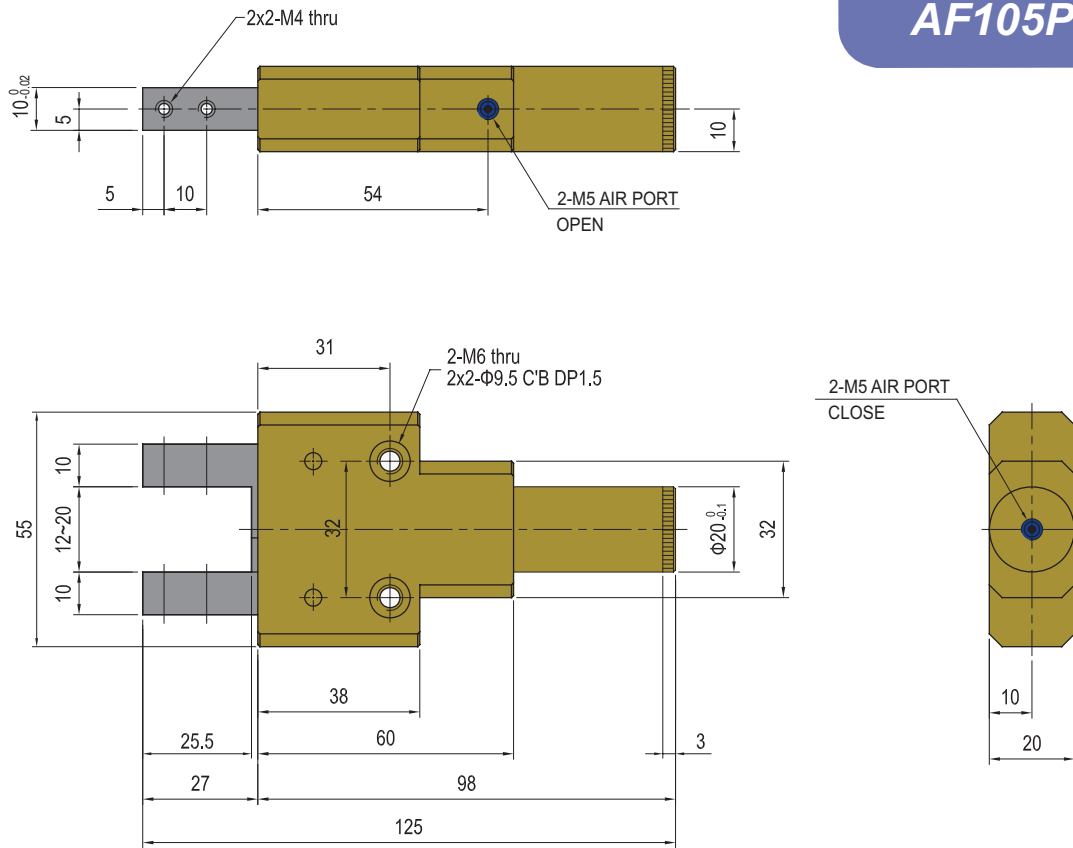


AF105P-10



AF105P

AF105P-16



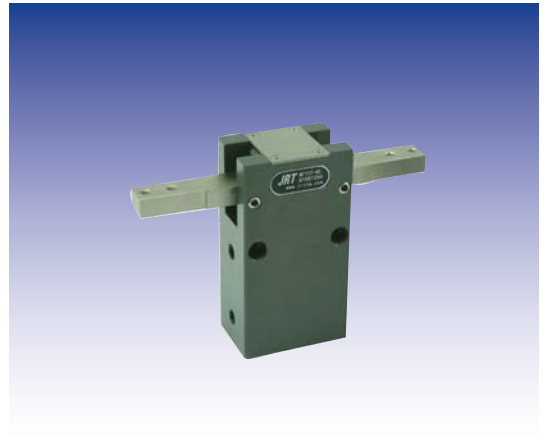
Note

Gripper

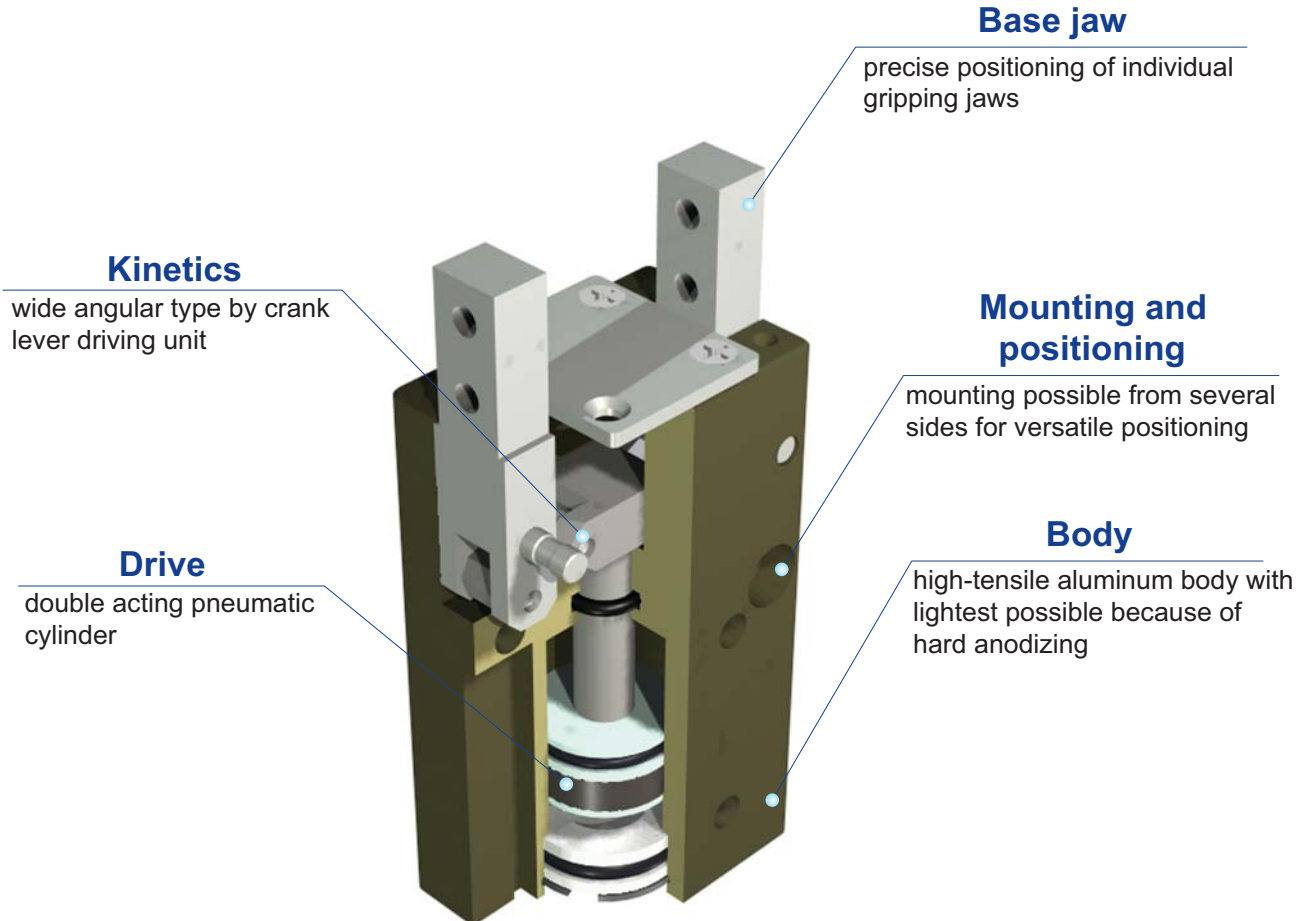
AF117-16,20,25,30,40,50,63,80

Character

- Wide angular type by crank lever driving unit
- Allow to grip the workpiece by open-close range 180° without any interference
- Wide and various selection possible by various size
- Magnetic sensor is available for open-close sensing

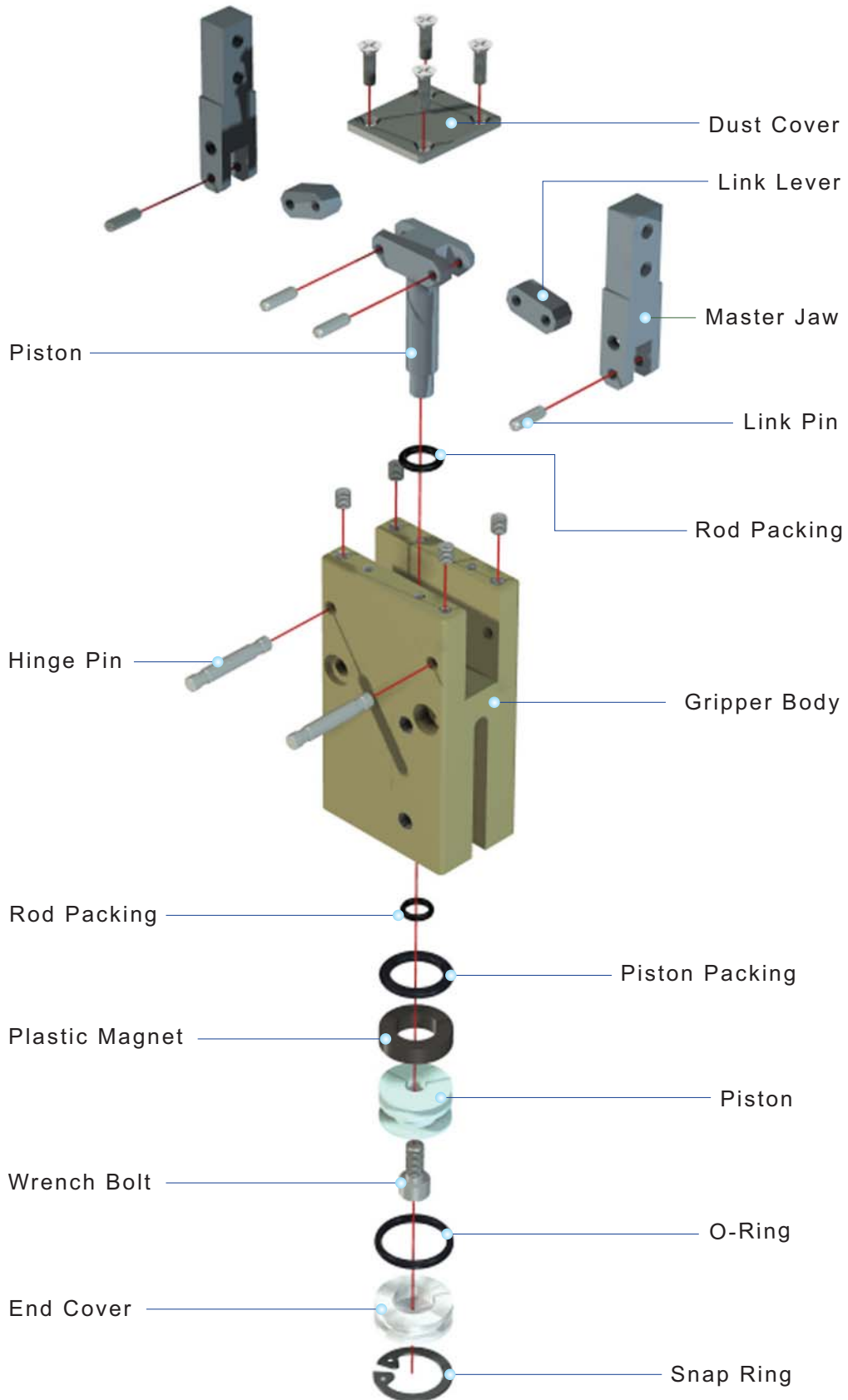


Crank lever type



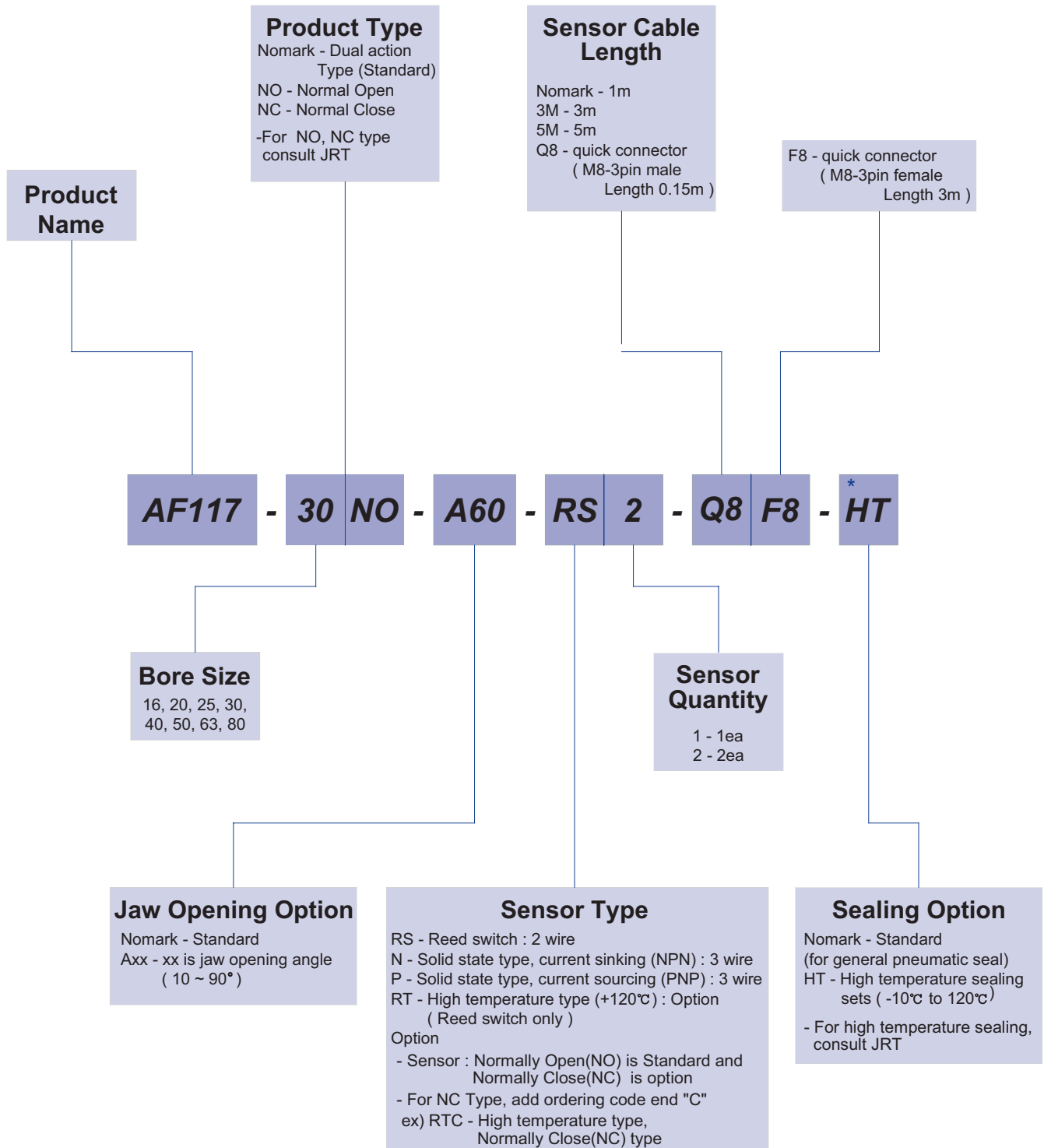
AF117

Exploded view



AF117

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF117

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF117-16	AF117-20	AF117-25	AF117-30	Unit
Stroke	0 to 180	0 to 180	0 to 180	0 to 180	degree
Weight	0.21	0.27	0.38	0.69	kg
Max. length of attach	30	40	50	60	mm
Fitting size	M5	M5	M5	PF(G) 1/8	
Gripping force:Open	36.30(P-0.3)/L	51.01(P-0.5)/L	56.90(P-0.1)/L	63.77P/L	N
Gripping force:Close	31.39(P-0.3)/L	44.15(P-0.5)/L	51.01(P-0.3)/L	55.92P/L	
Air consumption per cycle	4.3	9.9	15.4	33.4	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.02 / 0.02	0.04 / 0.04	sec
* Repeat accuracy	0.02	0.02	0.02	0.02	mm
Max.cycle per minute	60	60	60	40	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

P=Air Pressure[bar] , L=Exertion length[mm]

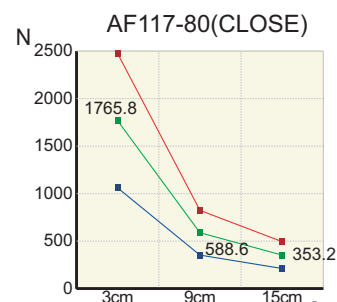
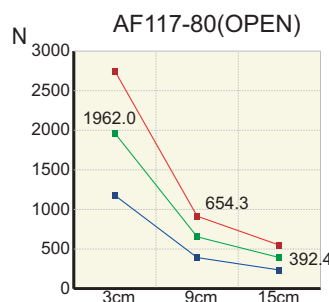
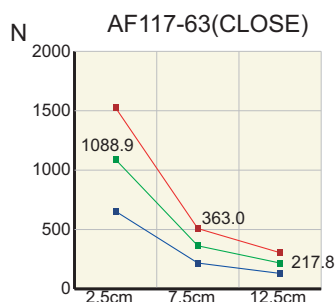
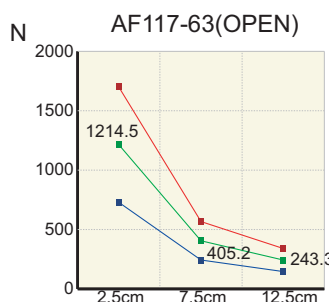
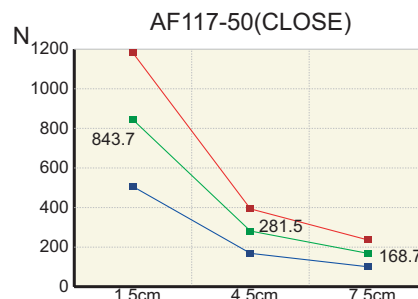
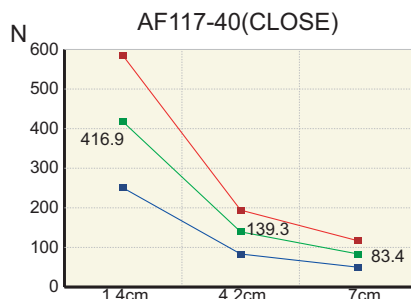
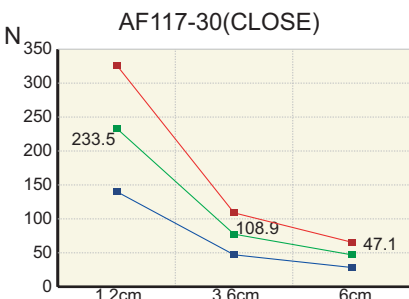
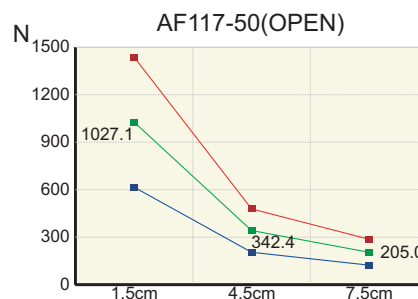
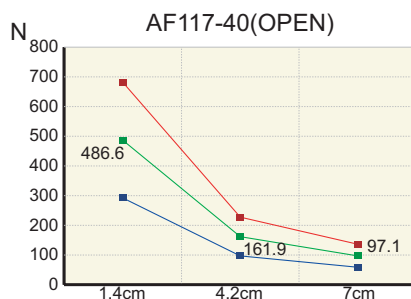
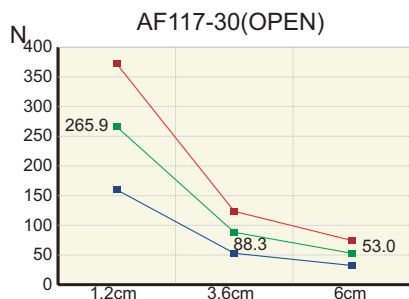
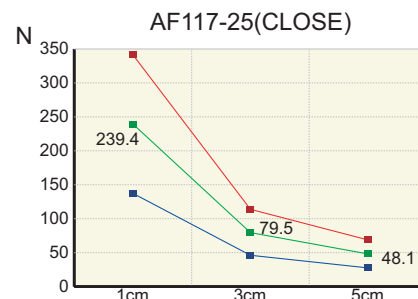
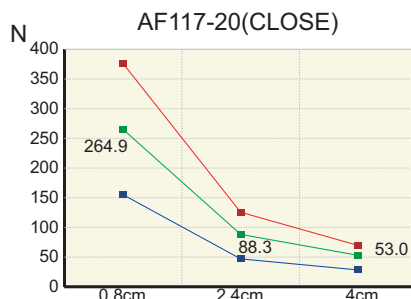
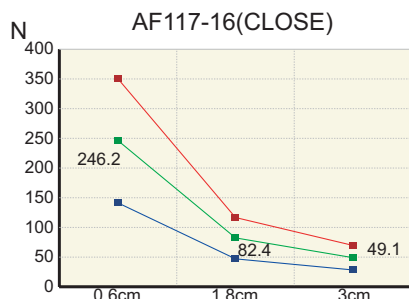
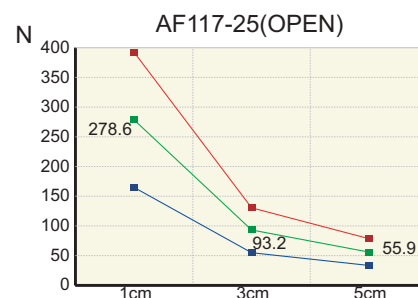
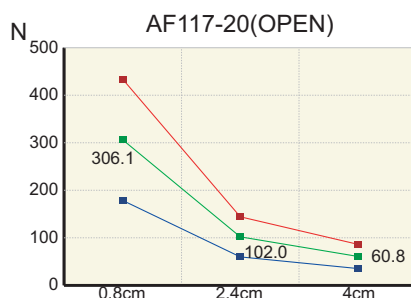
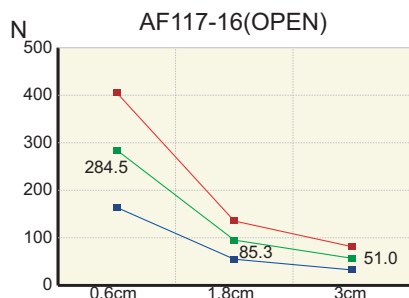
Products Name	AF117-40	AF117-50	AF117-63	AF117-80	Unit
Stroke	0 to 180	0 to 180	0 to 180	0 to 180	degree
Weight	1.2	2.17	3.5	4.7	kg
Max. length of attach	70	75	125	150	mm
Fitting size	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	PF(G) 1/8	
Gripping force:Open	136.36P/L	308.03P/L	607.24P/L	1177.20P/L	N
Gripping force:Close	116.74P/L	253.10P/L	544.46P/L	1059.48P/L	
Air consumption per cycle	68.4	148.1	301.9	583.3	cm ³
Closing / Opening time	0.07 / 0.07	0.15 / 0.15	0.30 / 0.30	0.60 / 0.60	sec
* Repeat accuracy	0.02	0.02	0.03	0.05	mm
Max.cycle per minute	40	30	30	20	
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

AF117

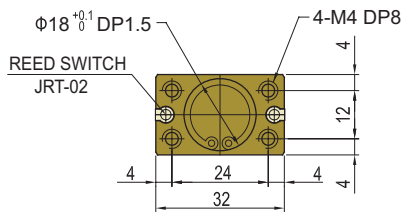
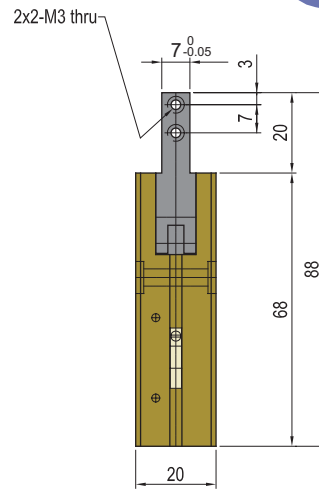
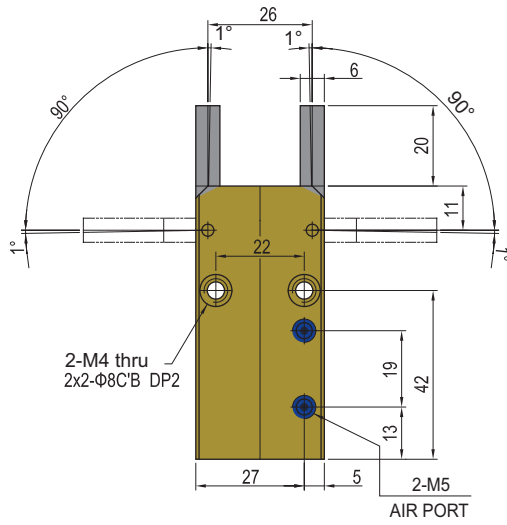
Gripping Force per exertion length

Legend : —■— 7[bar] —■— 5[bar] —■— 3[bar]

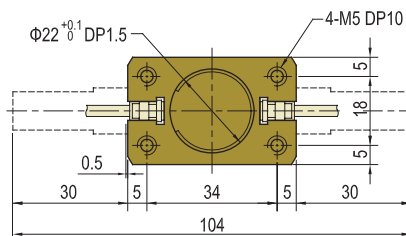
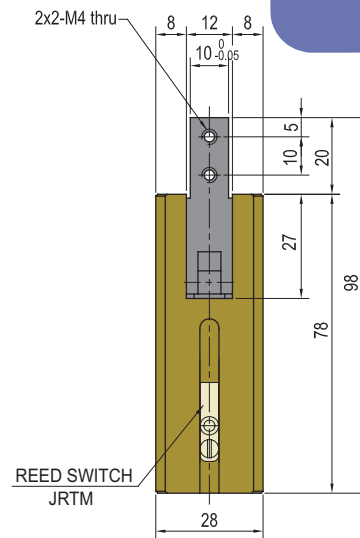
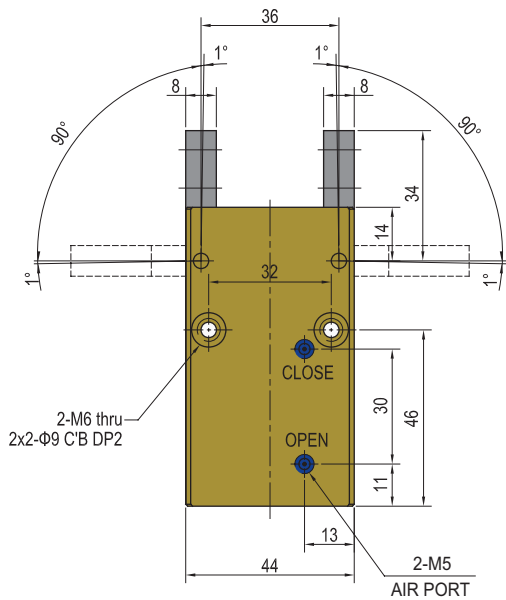


AF117

AF117-16

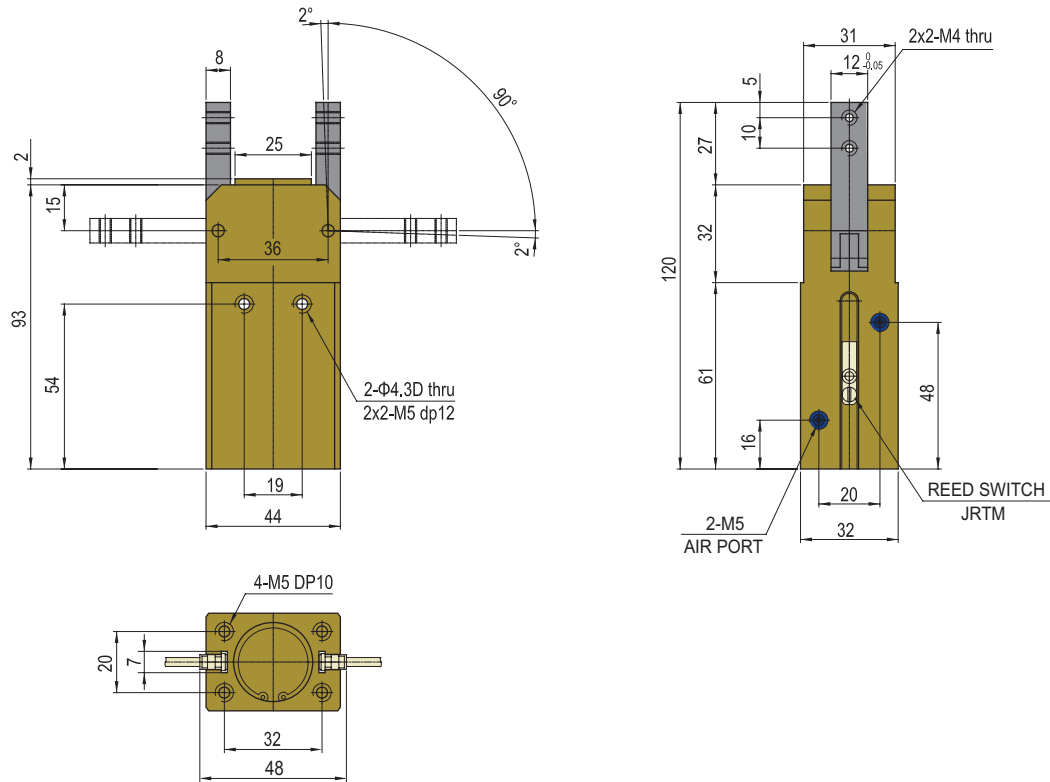


AF117-20

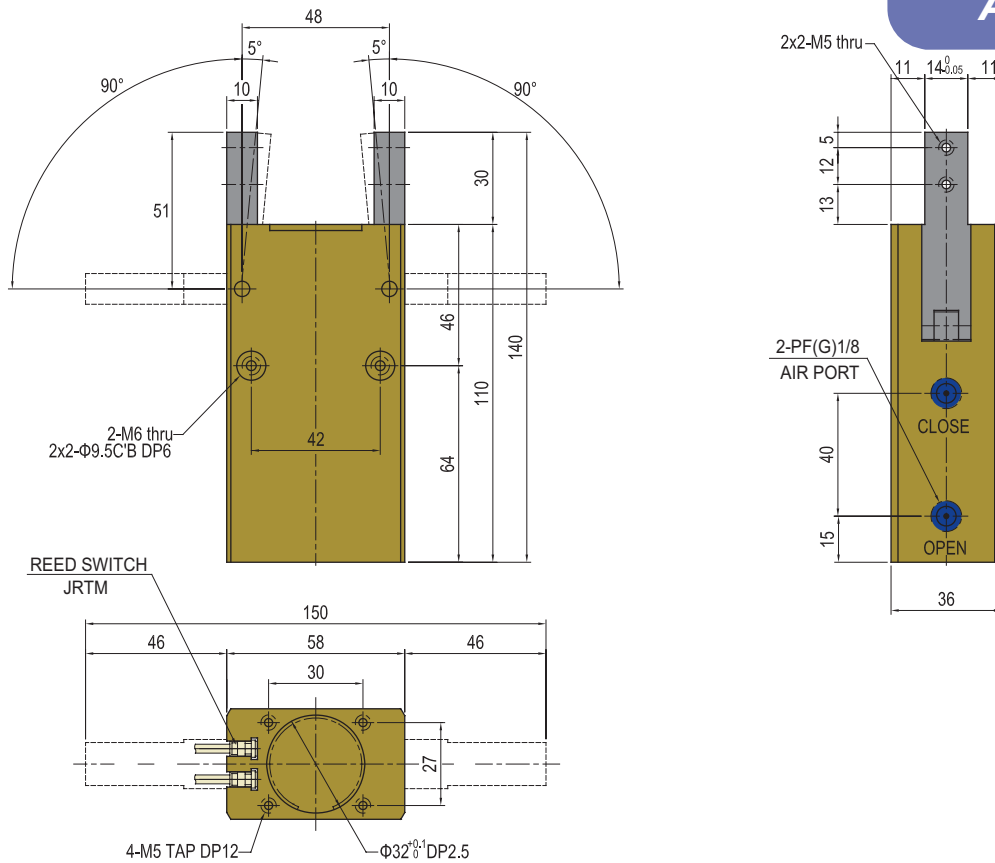


AF117

AF117-25

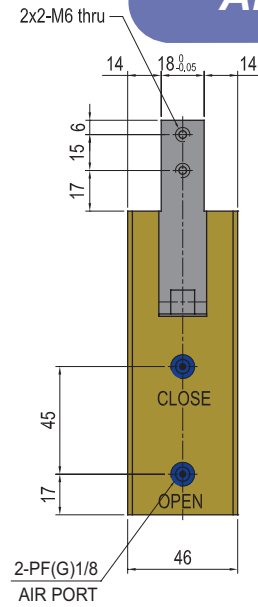
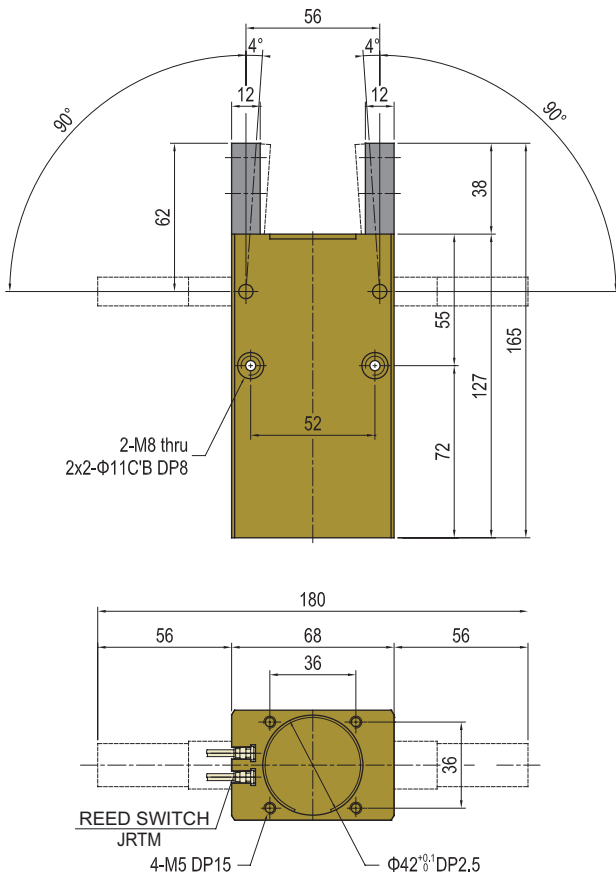


AF117-30

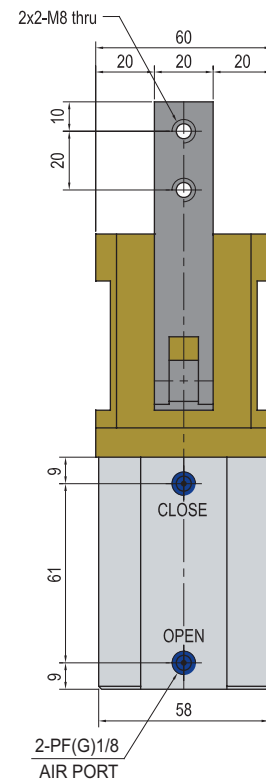
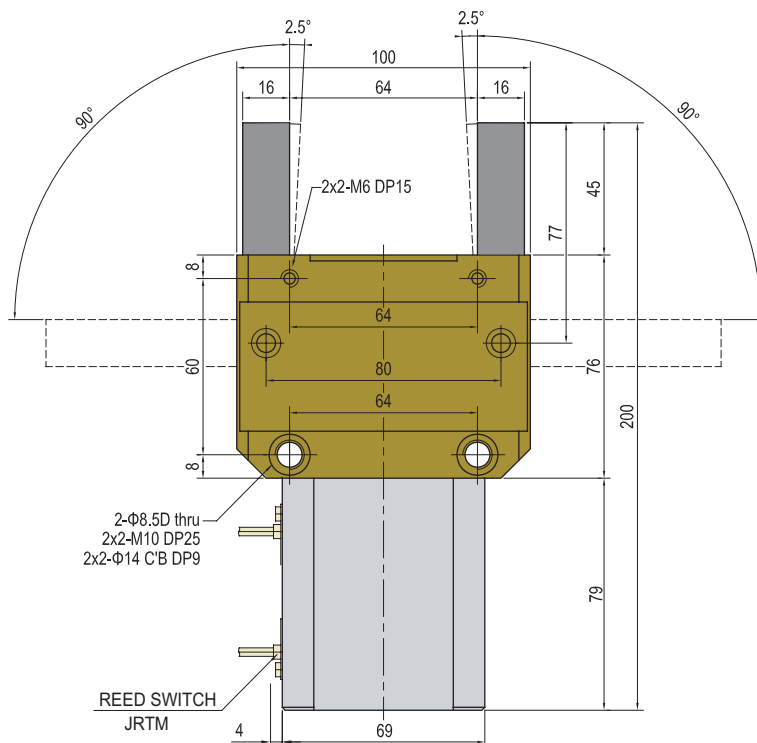


AF117

AF117-40

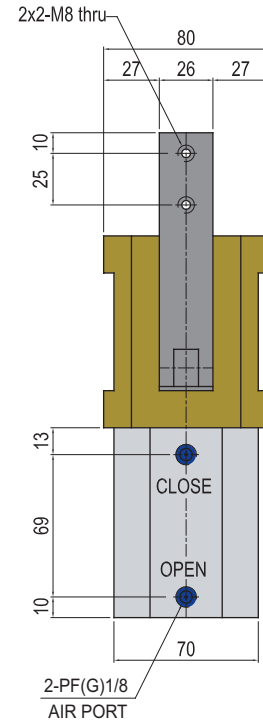
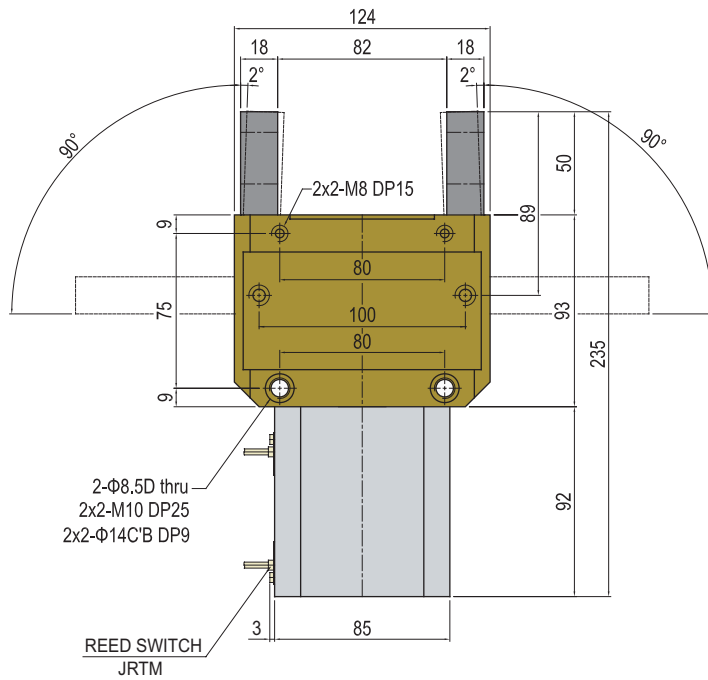


AF117-50

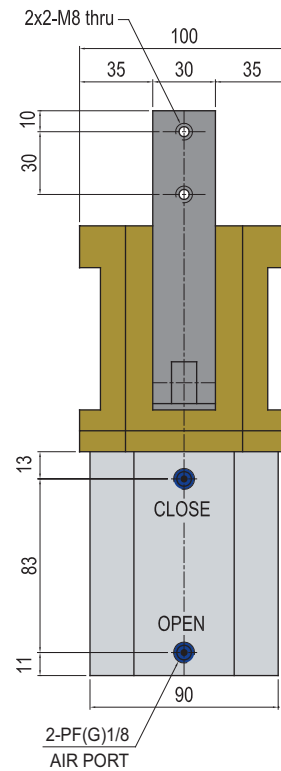
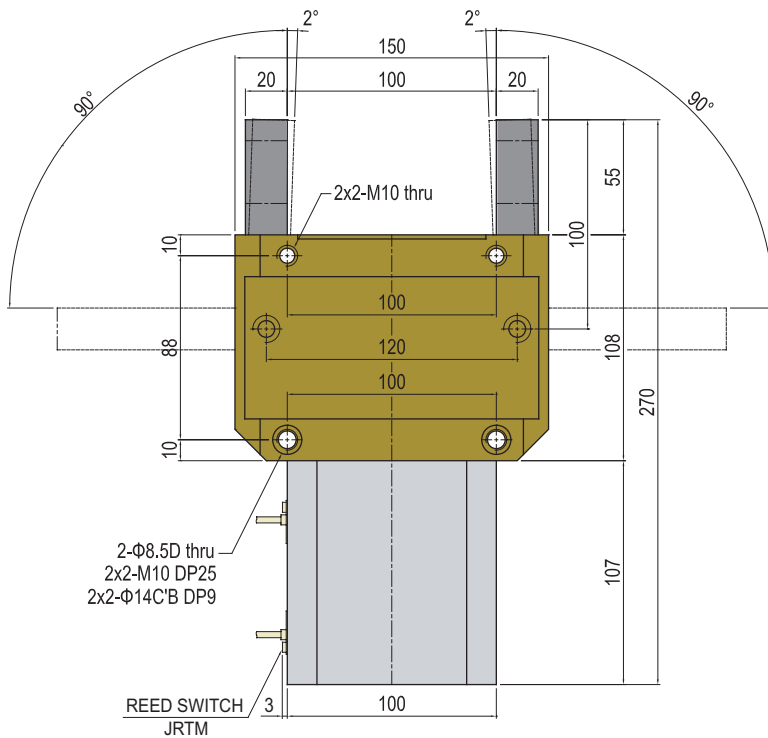


AF117

AF117-63



AF117-80



Notes

A large grid of dashed lines for taking notes, consisting of 20 columns and 25 rows. The grid is contained within a rounded rectangular border.

Gripper

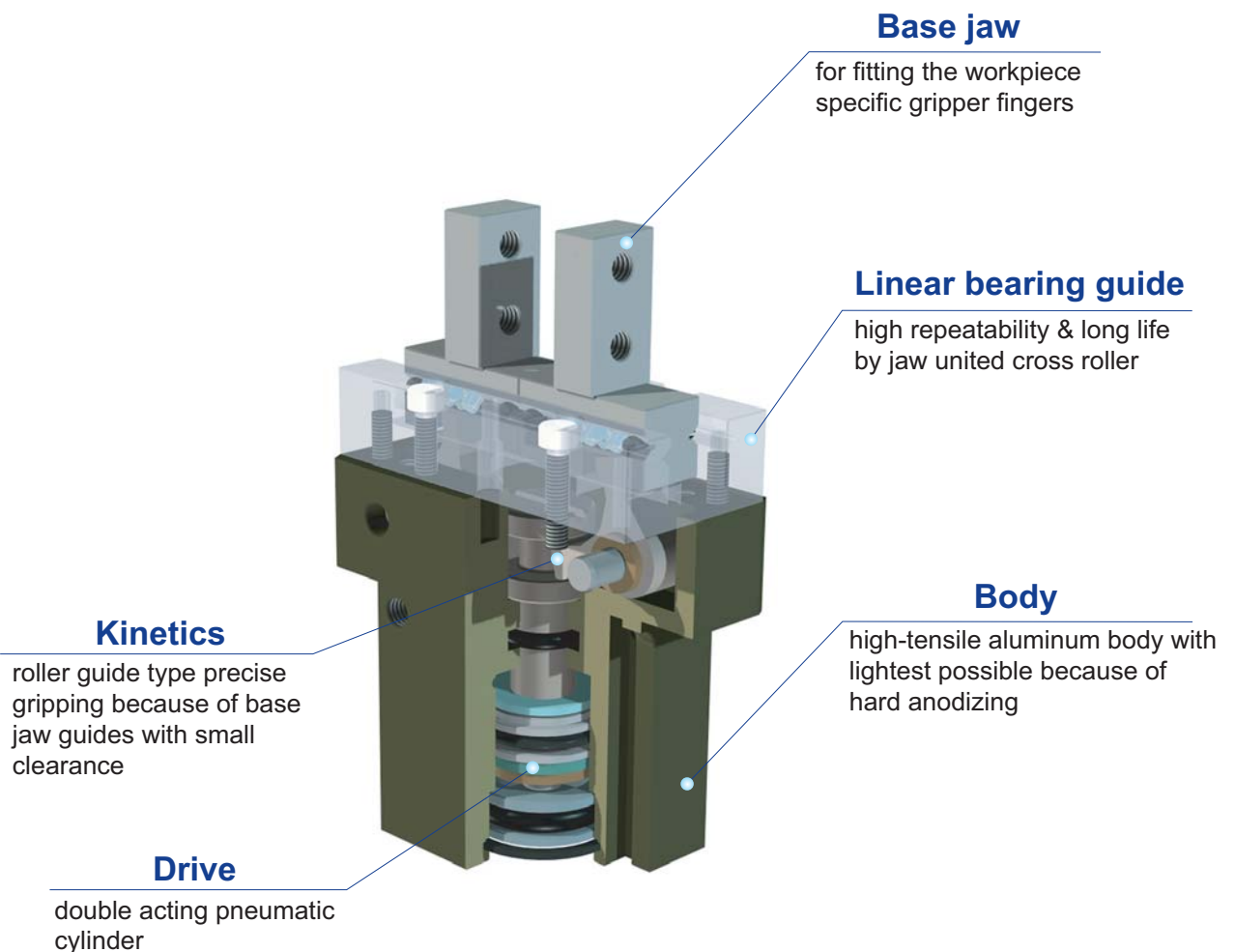
AF316-16,20,25

Character

- Cross roller guide type
- High repeatability & long life by jaw united cross roller
- Magnetic sensor is available for open-close sensing
- Suitable to grip a small and light workpiece
- Twisted it is strong hardness plunger
- For precise positioning of individual gripping jaw

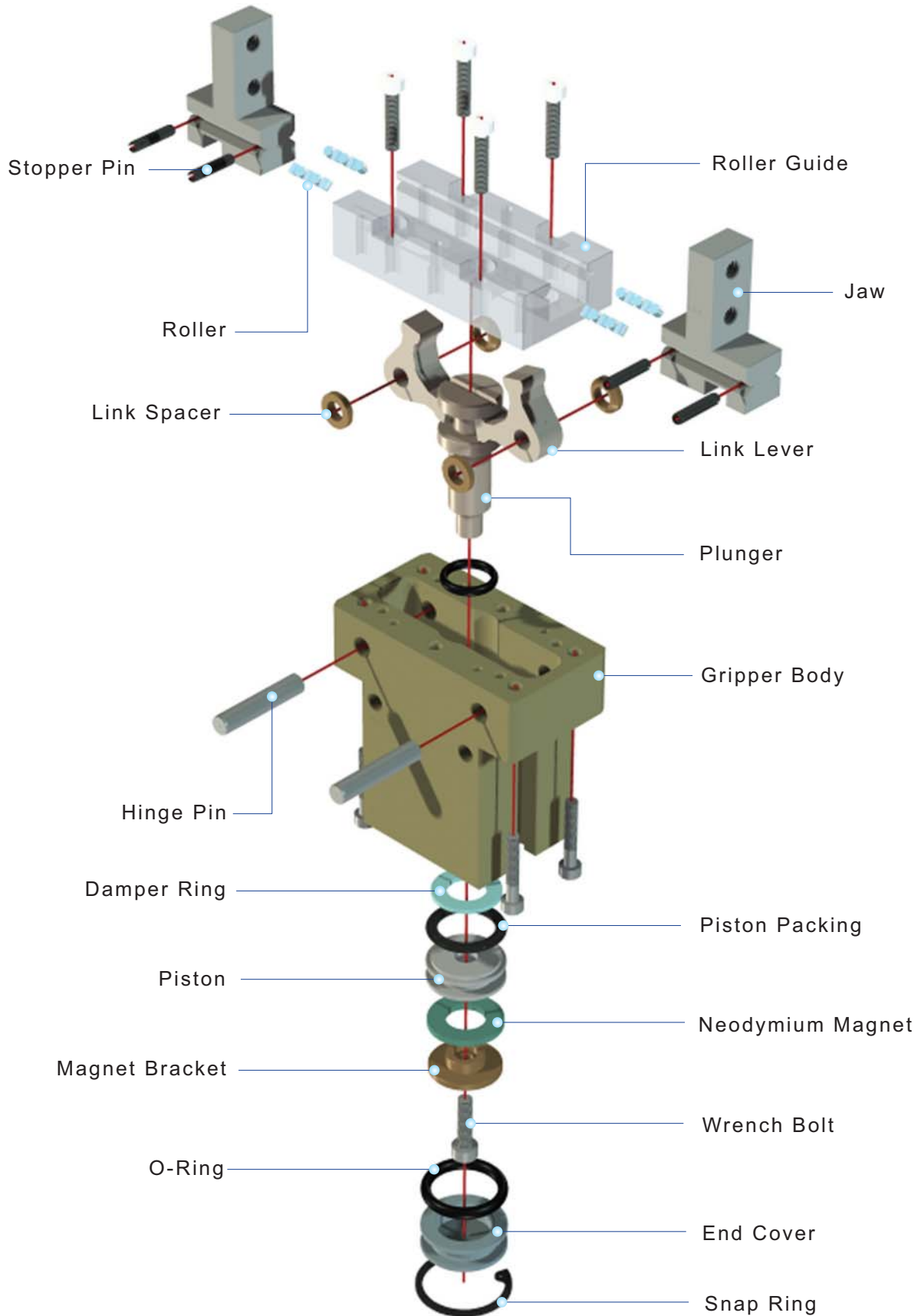


Cross roller guide type



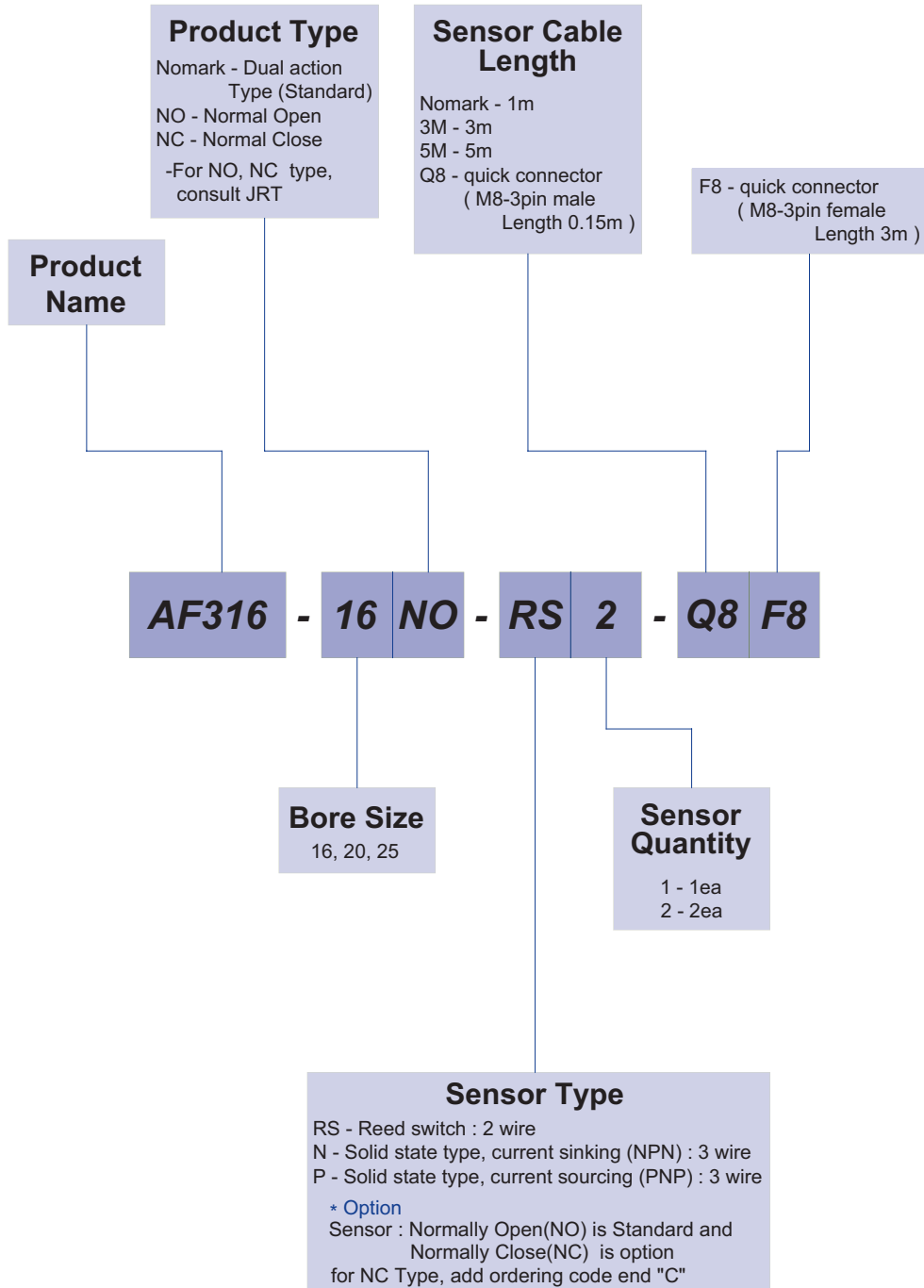
AF316

Exploded view



AF316

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

AF316

Specification

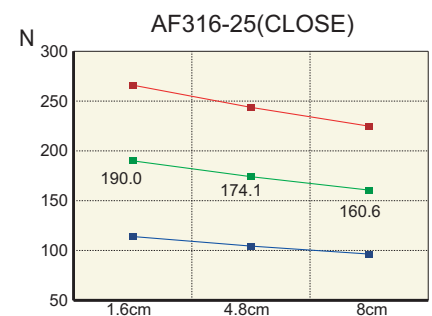
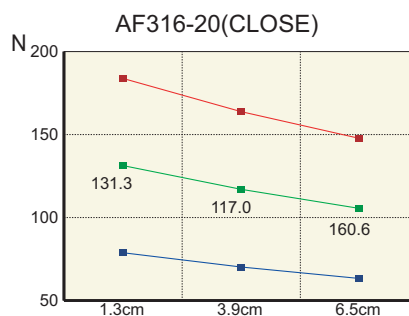
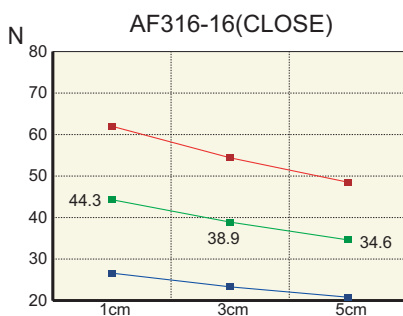
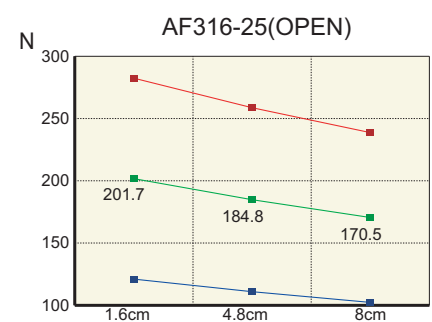
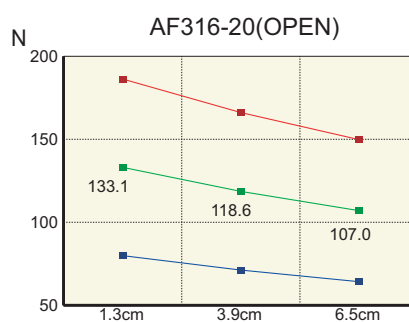
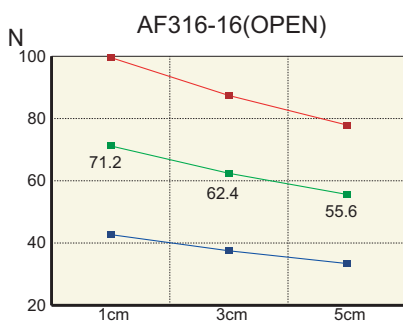
P=Air Pressure[bar] , L=Exertion length[mm]

Products Name	AF316-16	AF316-20	AF316-25	Unit
Stroke	8	10	14	mm
Weight	0.21	0.31	0.55	kg
Max. length of attach	50	65	80	mm
Fitting size	M5	M5	M5	
Gripping force:Open	15.3P/(1+0.0075L)	28.35P/(1+0.005L)	42.28P/(1+0.003L)	N
Gripping force:Close	9.52P/(1+0.0075L)	27.96P/(1+0.005L)	39.83P/(1+0.003L)	N
Air consumption per cycle	1.4	2.7	6.1	cm ³
Closing / Opening time	0.01 / 0.01	0.01 / 0.01	0.01 / 0.01	sec
* Repeat accuracy	0.01	0.01	0.01	mm
Max.cycle per minute	60	60	40	
Operating pressure	3~7			bar
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

* After 100 consecutive strokes to end positions

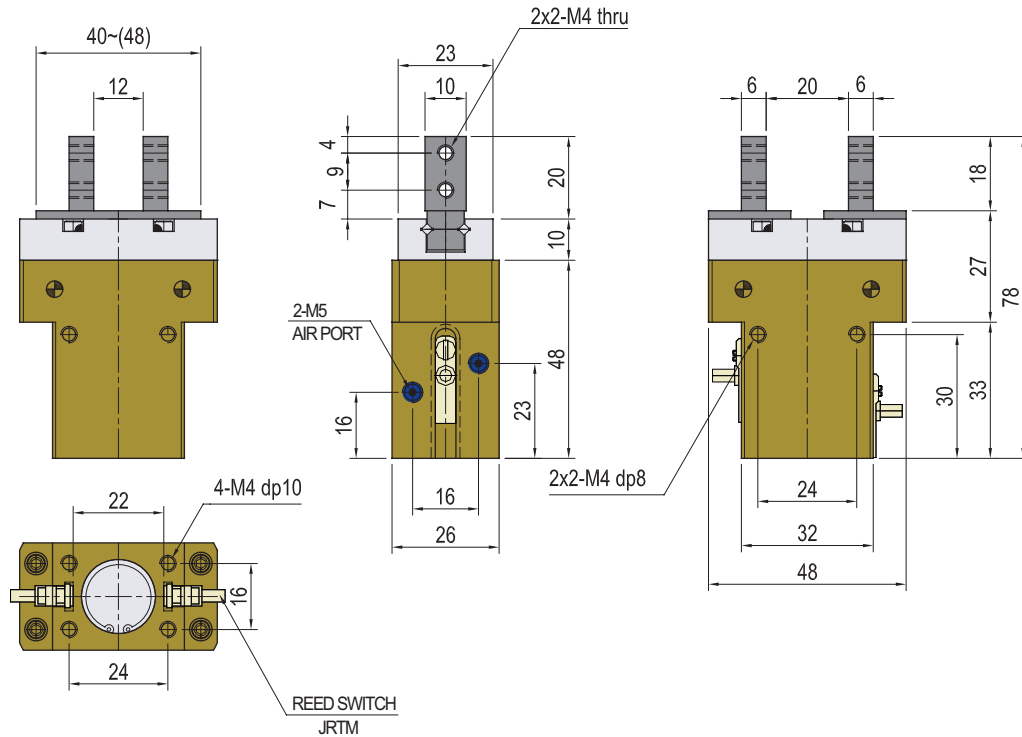
Gripping Force per exertion length

Legend : ■ 7[bar] ■ 5[bar] ■ 3[bar]

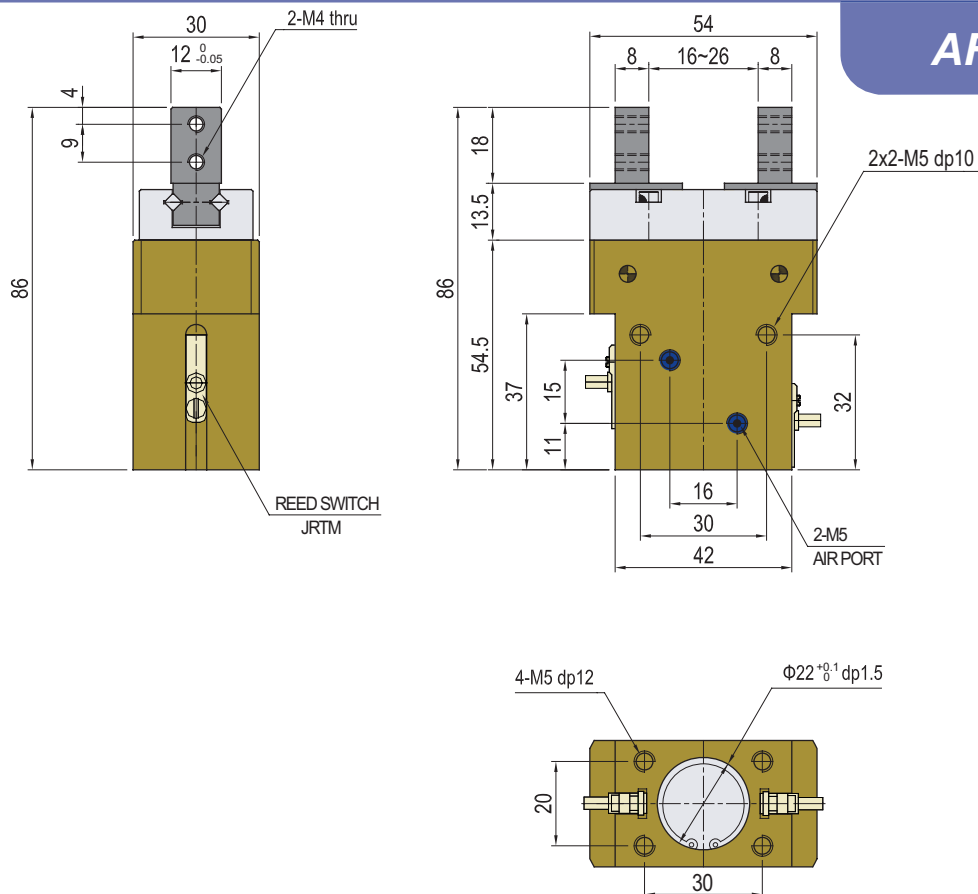


AF316

AF316-16

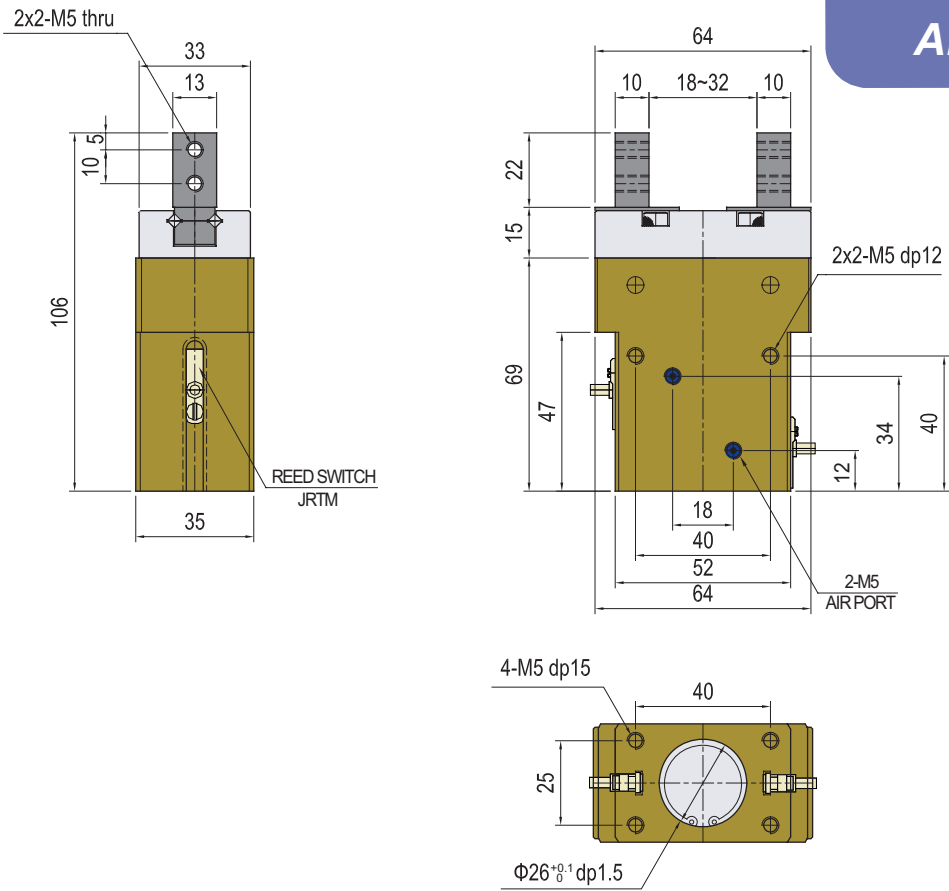


AF316-20



AF316

AF316-25



Note

Gripper

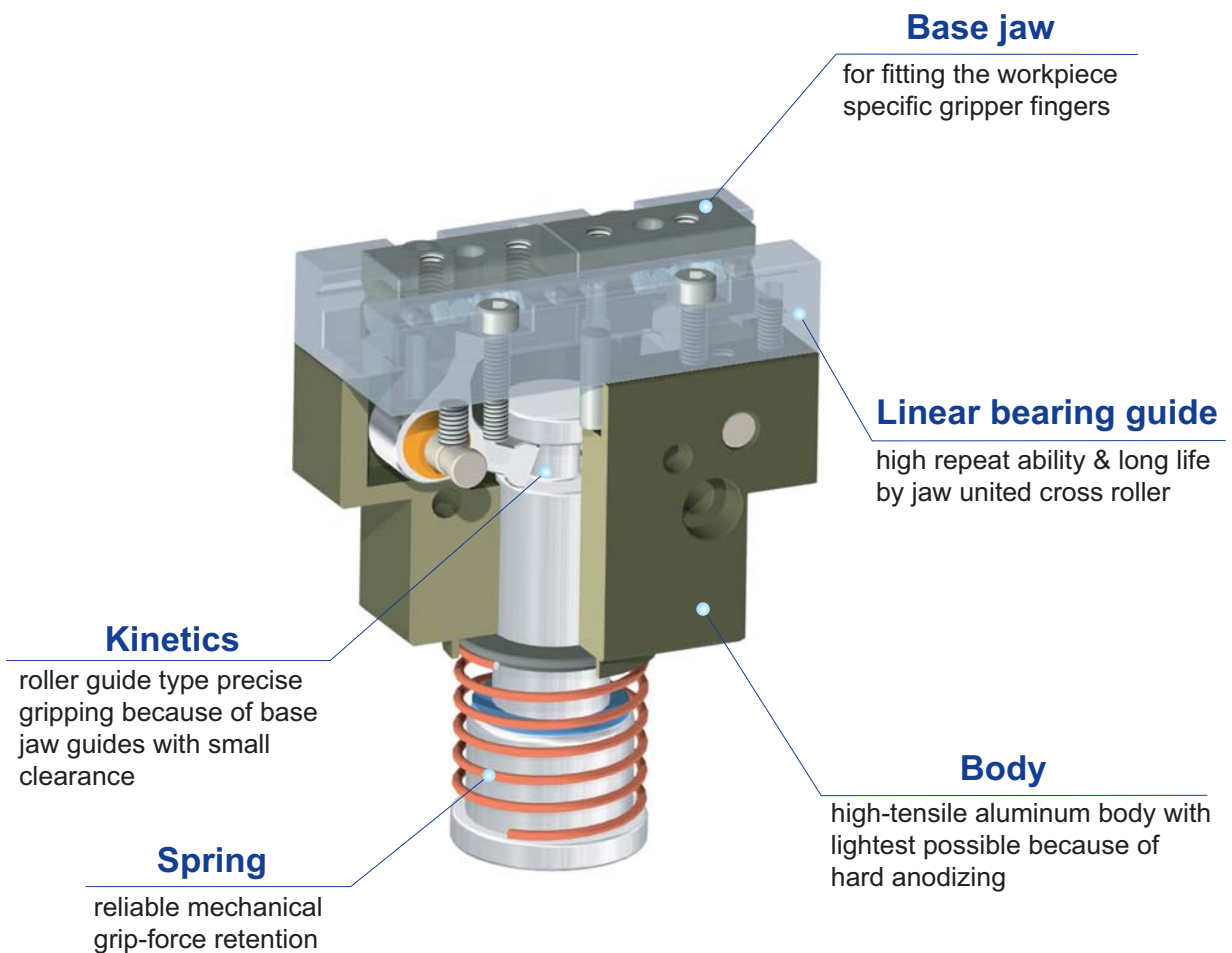
MF16-S,M,L

Character

- Normal closing gripper by spring
- High repeatability & long life by jaw united cross roller
- Twisted it is strong hardness plunger
- For precise positioning of individual gripping jaw

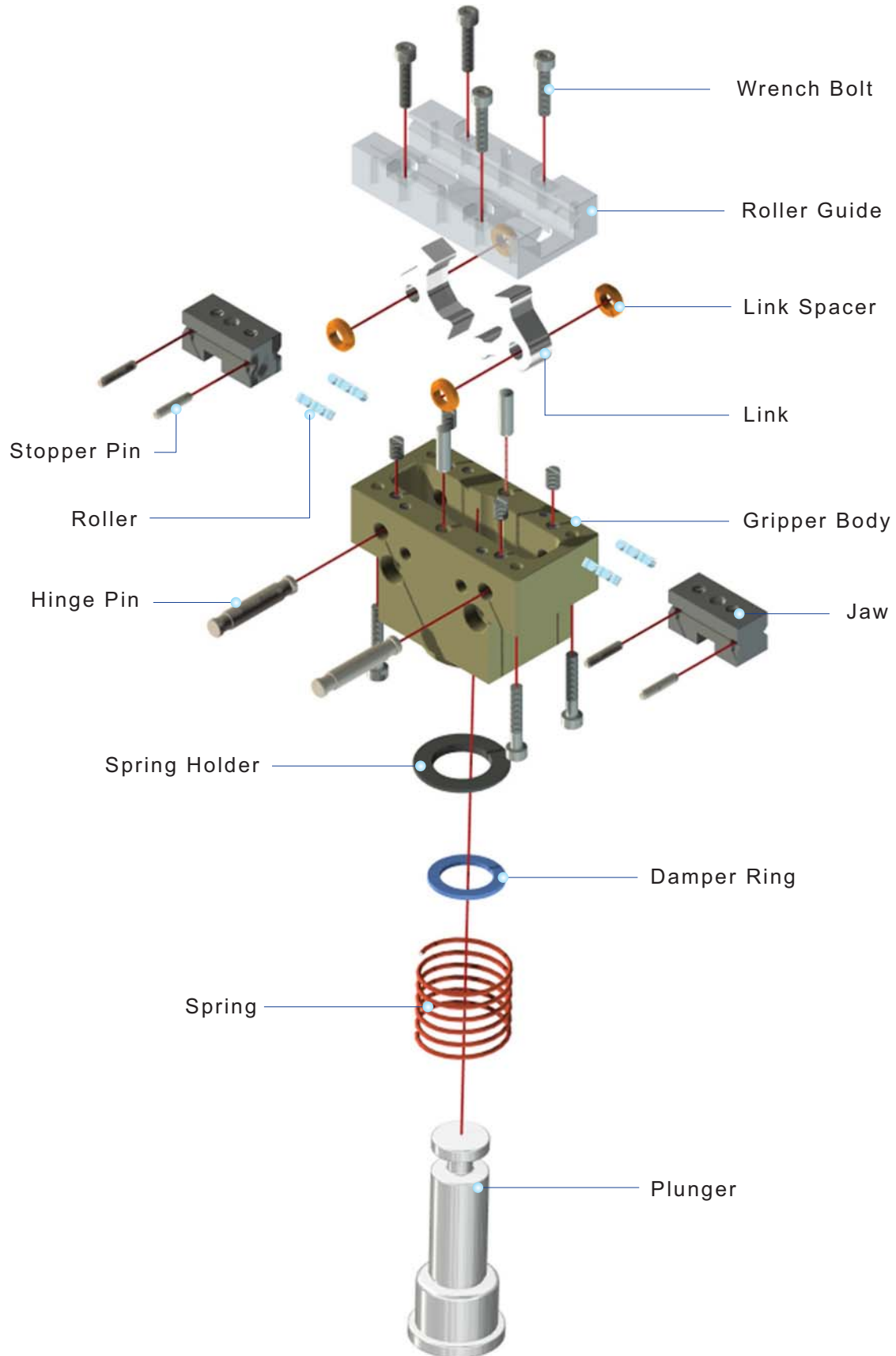


Mechanical type



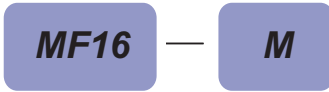
MF16

Exploded view



MF16

Ordering Code



①

②

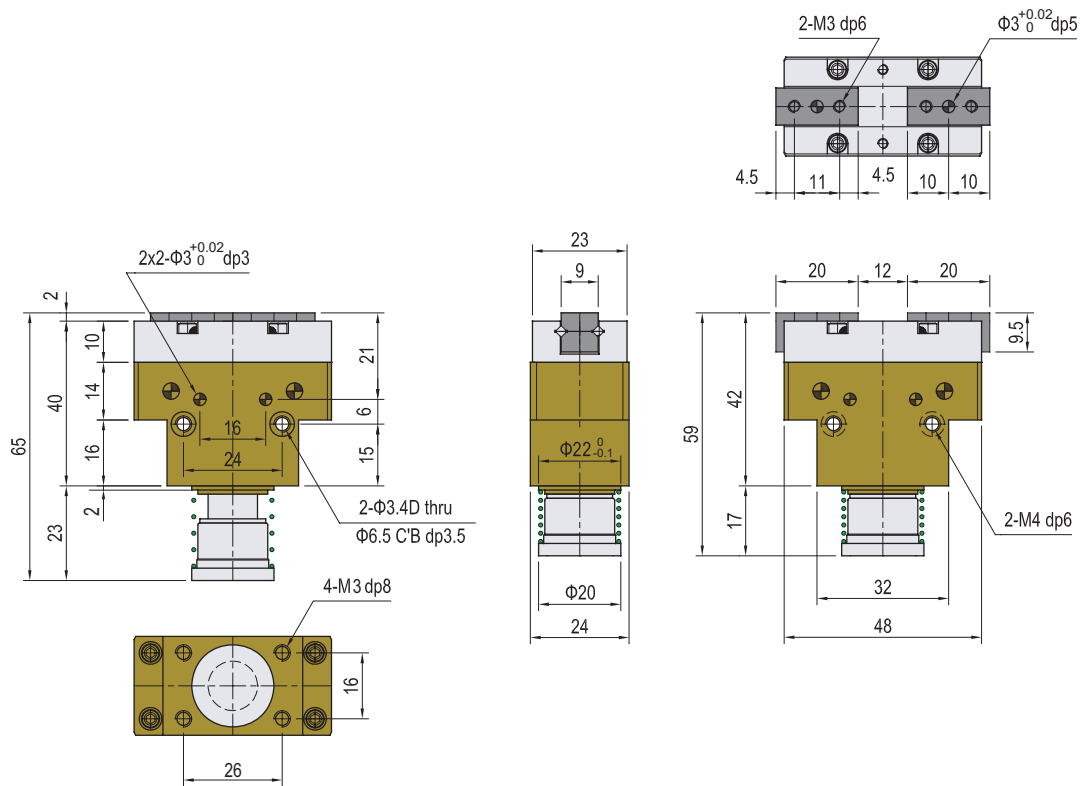
①	Product Name	MF16
②	Size	S, M, L

Specification

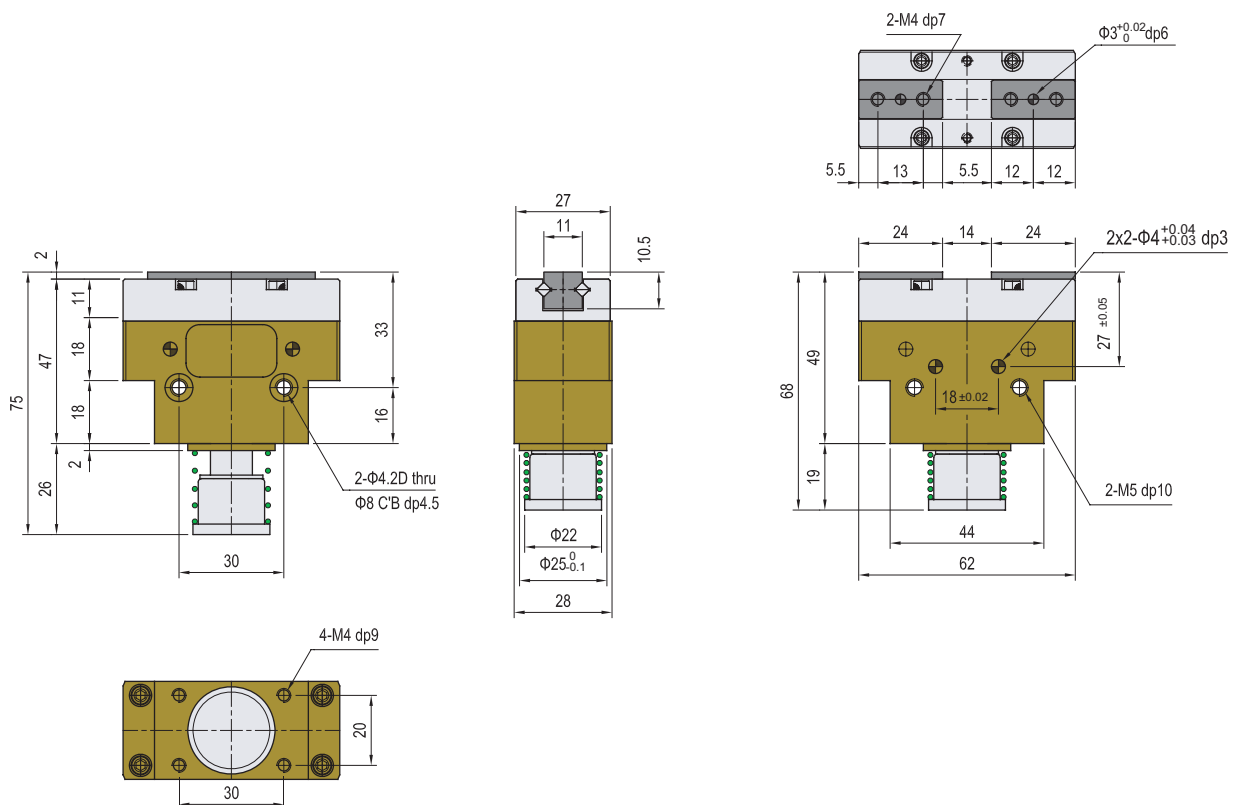
Product name	MF16-S	MF16-M	MF16-L	Unit
Stroke	12	14	16	mm
Weight	0.2	0.34	0.5	kg
Max. length of attach	32	40	60	mm
Gripping force:Close	10 to 20	15 to 30	25 to 40	N
Max.cycle per minute	60	50	40	
Ambient temperature	-5 to 60			°C
Lubrication	Needless			

MF16

MF16-S

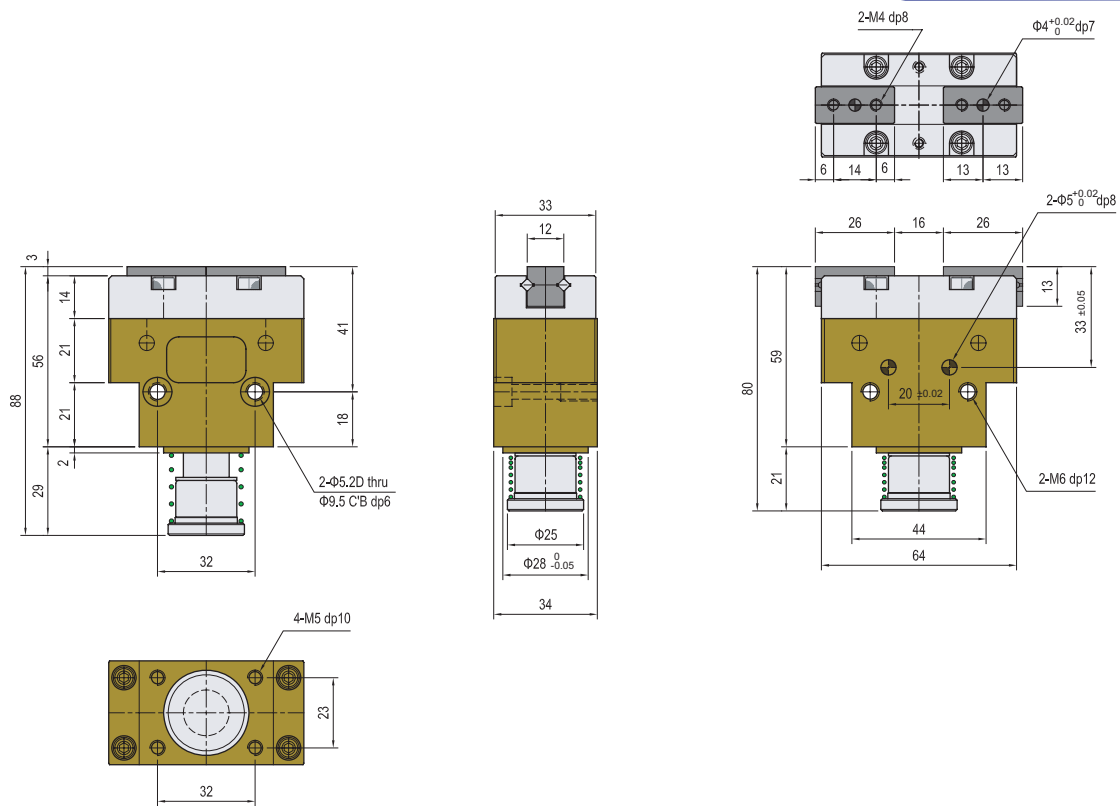


MF16-M



MF16

MF16-L



Note

Gripper

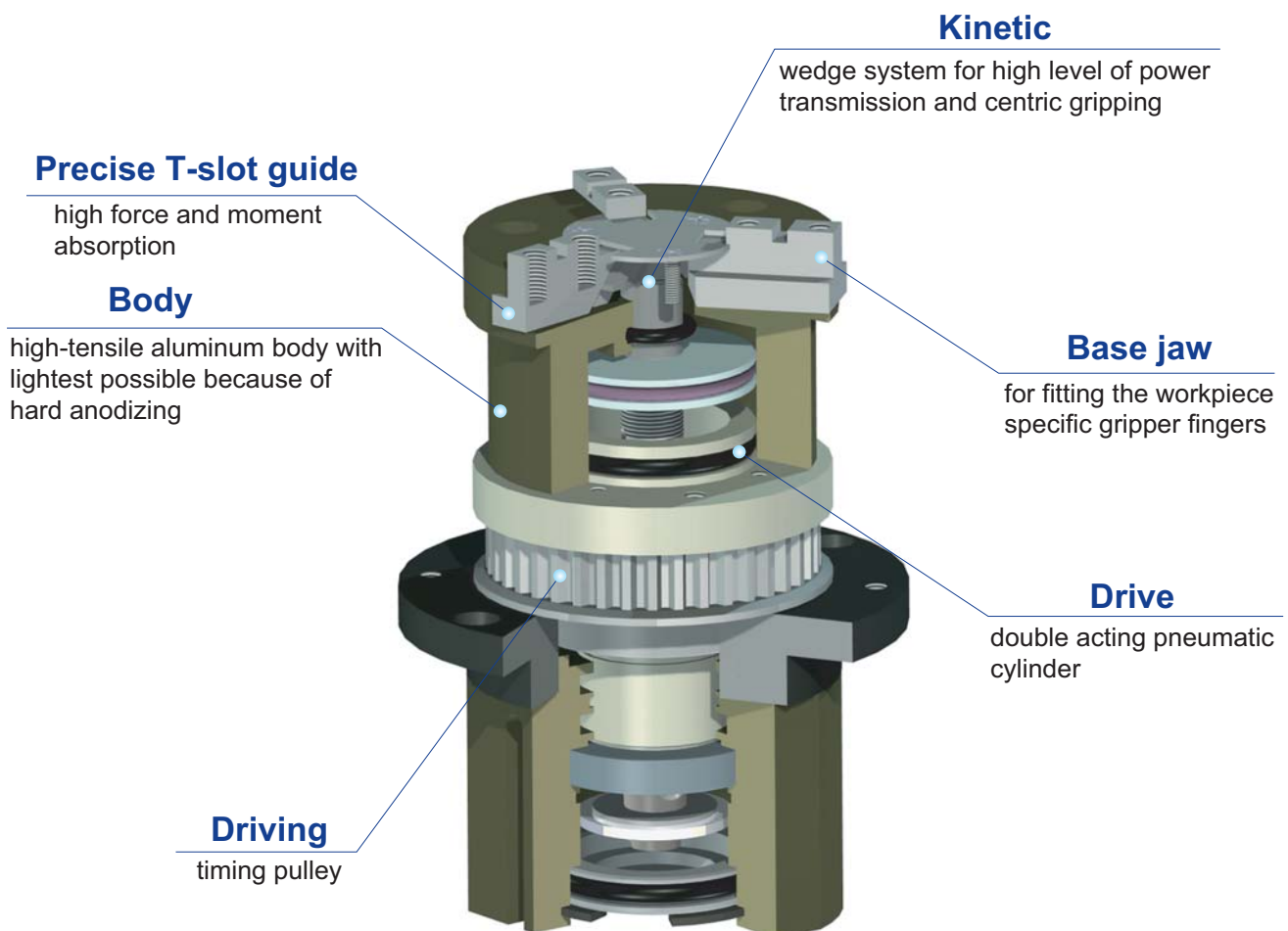
RAF56N-32,40,50,63

Character

- Compact structure by wedge guide driving unit
- Rotational gripper of AF56N without twist of air supply tube
- Admissible RPM is 100
- Magnetic sensor is available for open-close sensing

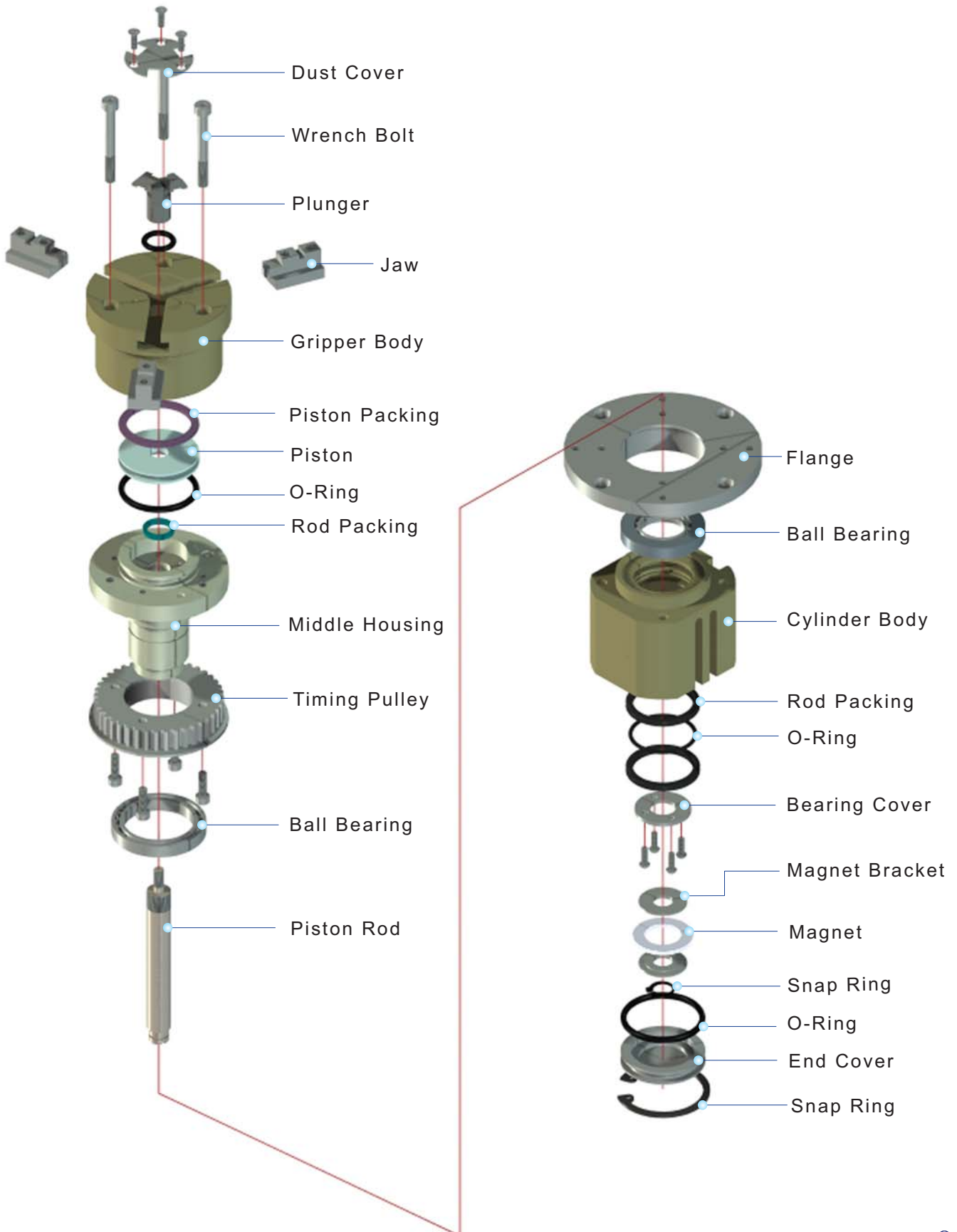


Wedge type 3 jaw rotation gripper



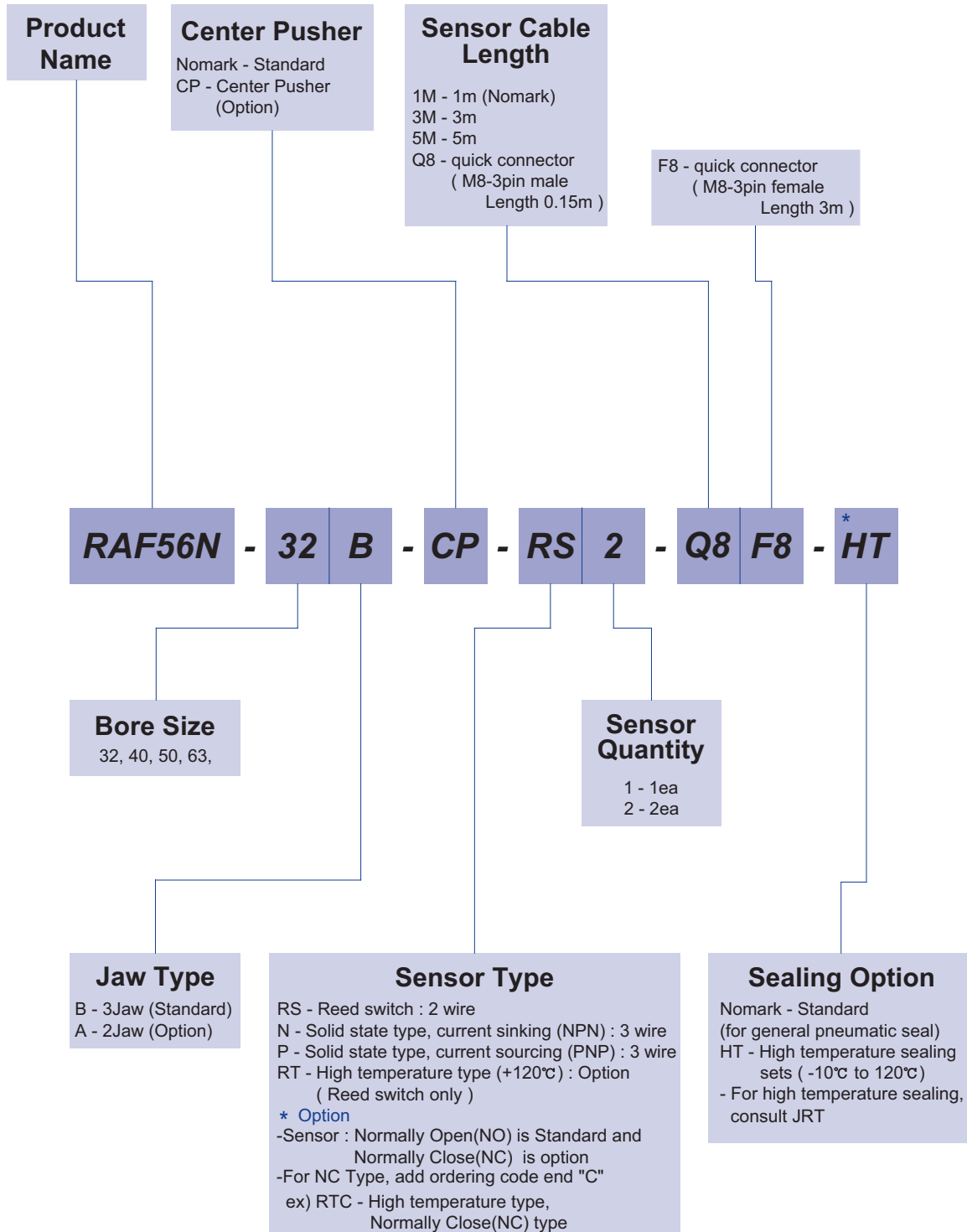
RAF56N

Exploded view



RAF56N

Ordering Code



The delivery of * mark option is longer than a standard, So inquire of JRT

RAF56N

Specification

P=Air Pressure[bar] , L=Exertion length[mm]

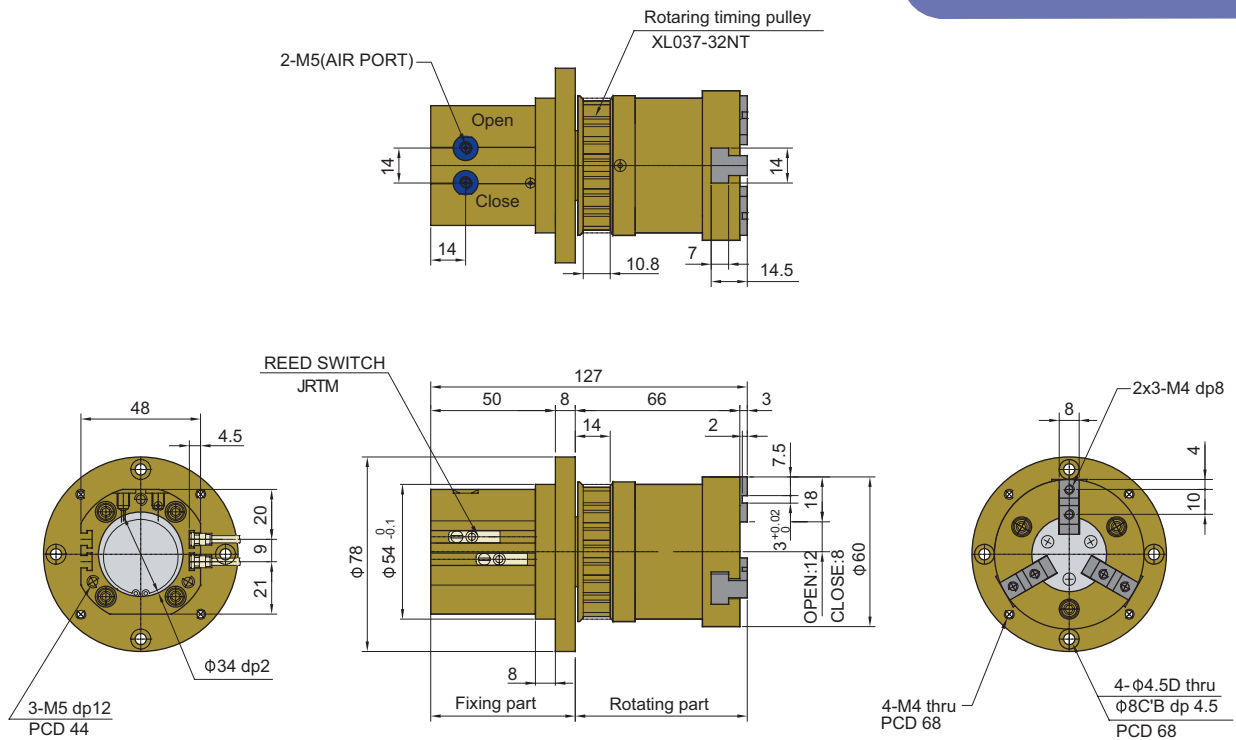
Products Name	RAF56N-32B	RAF56N-40B	RAF56N-50B	RAF56N-63B	Unit
Stroke	8	10	12	16	mm
Weight	0.95	1.43	1.74	2.40	kg
Max. length of attach	50	60	80	100	mm
Fitting size	M5	M5	M5	M5	
Gripping force:Open	56.90P/(1+0.009L)	103.99P/(1+0.007L)	150.09P/(1+0.007L)	238.38P/(1+0.006L)	N
Gripping force:Close	52.97P/(1+0.009L)	95.16P/(1+0.007L)	138.32P/(1+0.007L)	211.90P/(1+0.006L)	N
Timing pulley spec.	XL037-32NT	XL037-40NT	XL037-40NT	XL037-40NT	
Air consumption per cycle	6.8	14.9	27.9	59.7	cm ³
Closing / Opening time	0.01 / 0.01	0.02 / 0.02	0.03 / 0.03	0.06 / 0.06	sec
* Repeat accuracy	0.01	0.01	0.01	0.01	mm
Max.cycle per minute	60	50	50	50	
Revolution per minute	100				
Operating pressure	3~7				bar
Ambient temperature	-5 to 60				°C
Lubrication	Needless				

* After 100 consecutive strokes to end positions

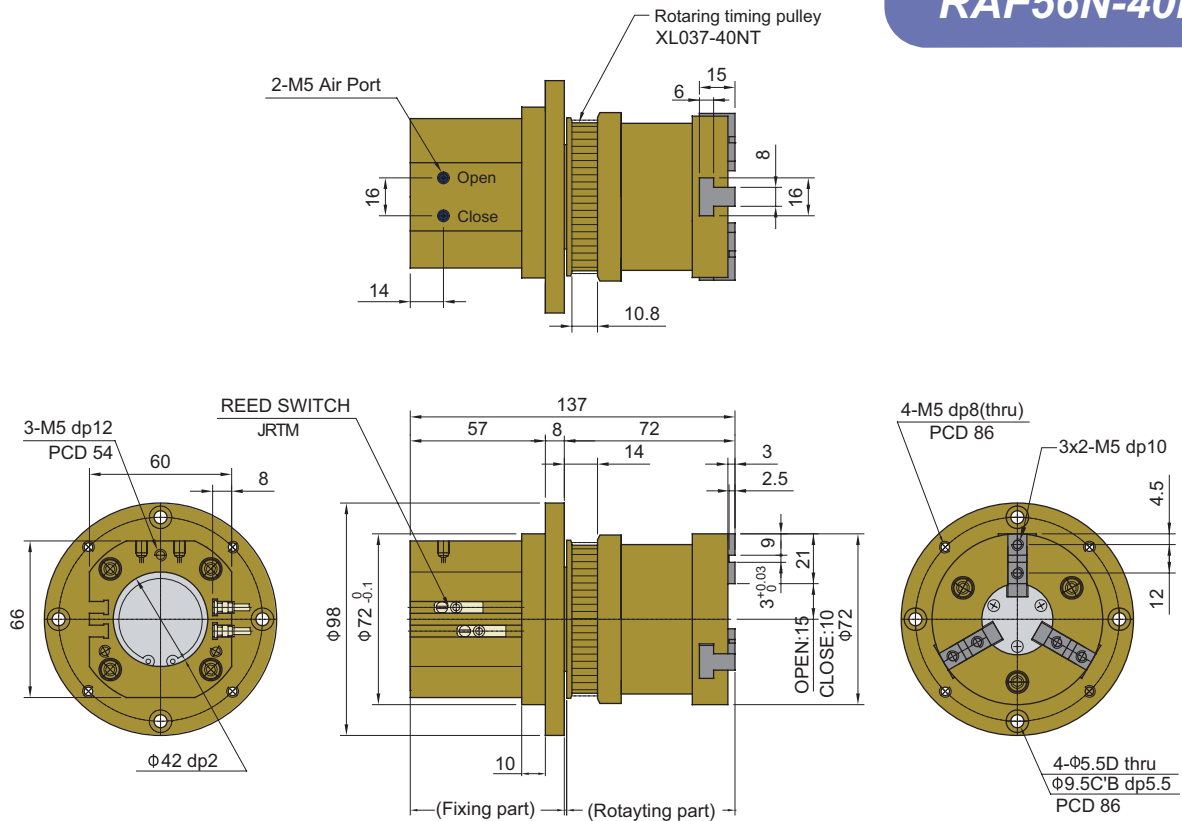
Note

RAF56N

RAF56N-32B

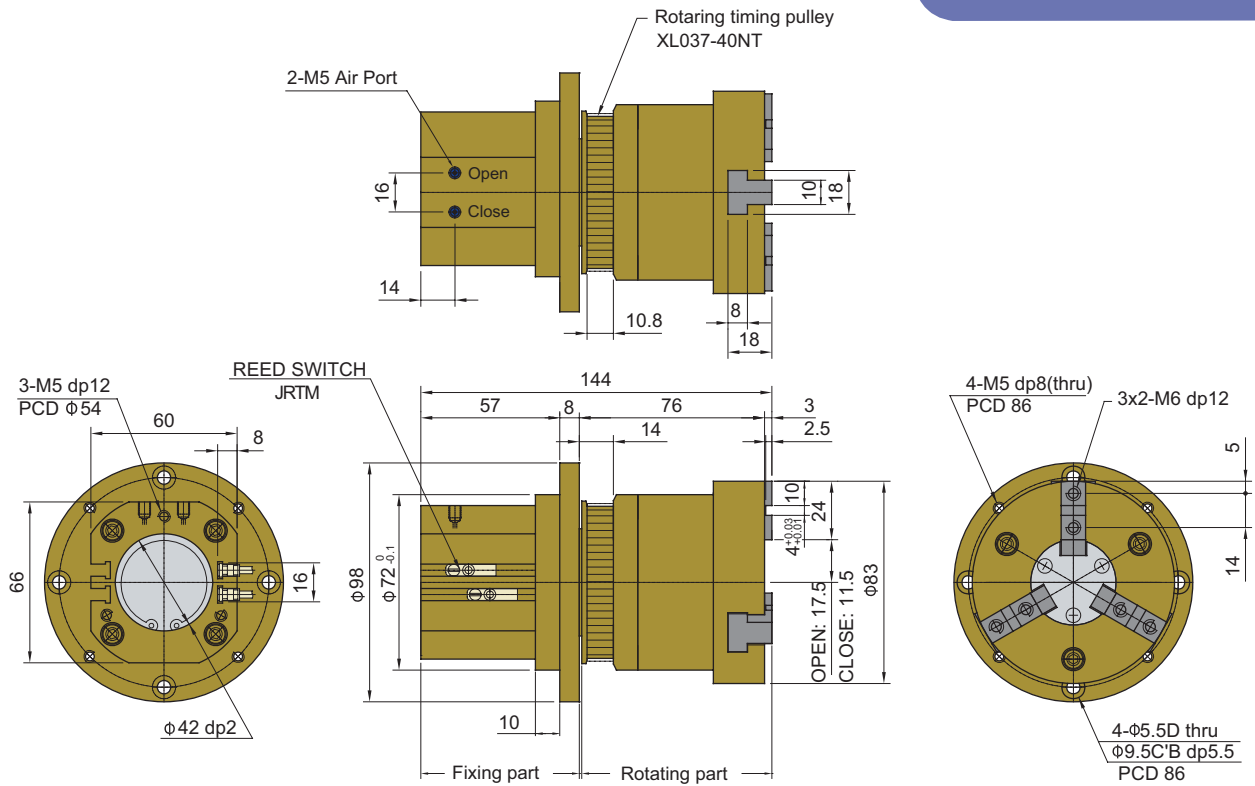


RAF56N-40B



RAF56N

RAF56N-50B



RAF56N-63B

