

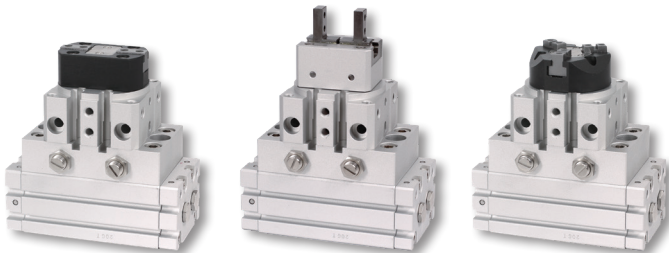
RB series Rotary Actuated Air Gripper

Product features

CHELIC

Feature

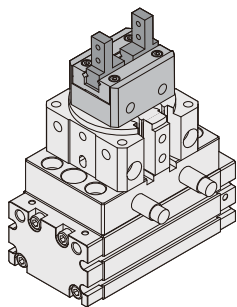
- 90° , 180° rotary and gripping
- Double force rotary
- 3 type



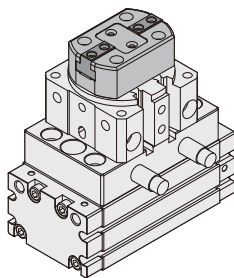
Specification

Item		Bore size (mm)	Ø10	Ø16	Ø20	Ø25
Gripper type			RBZ, RBW, RBQ			
Torque force		N · m	0.6	1.5	2.2	3.2
Action			Double acting			
Fluid			Air			
Pressure range	Gripper unit	kgf / cm ² (kPa)	2 ~ 7 (200 ~ 700)			
	Rotary unit		2.5 ~ 7 (250 ~ 700)			
Ambient and fluid temperature		° C	5 ~ 60			
Rotation angle		°	90, 180			
Lubrication			Lubrication free type			

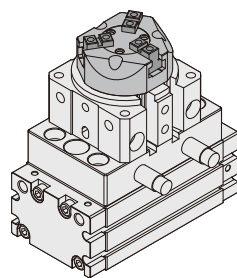
Available grippers



● **RBZ** Rotary gripper



● **RBW** Rotary gripper



● **RBQ** Rotary gripper

HDQ

HDQT

HDQM

HMQ

HMT

HDL

HDT

HDF

RM

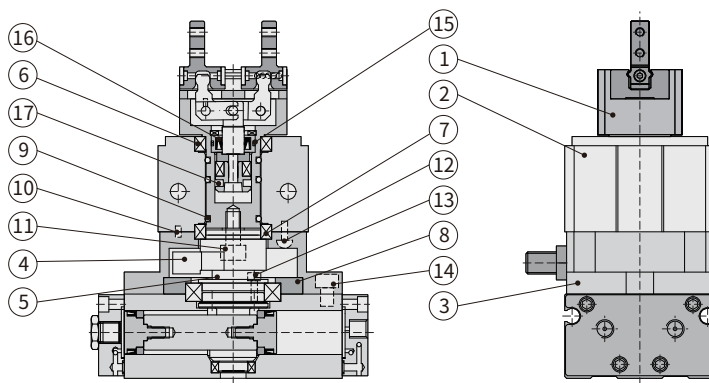
RB

RB series Rotary Actuated Air Gripper

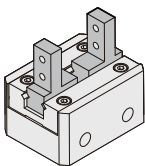
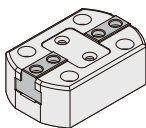
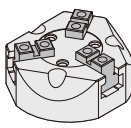
Product features

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Internal structure



Gripper assembly

RBZ series	RBW series	RBQ series
		

Components and material list

No.	Item	Material	No.	Item	Material	No.	Item	Material
01	Gripper assembly		07	Bearing	Bearing steel	13	Hexagon screw	Alloy steel
02	The Body	Aluminum alloy	08	Bearing cap	Aluminum alloy	14	Hexagon screw	Alloy steel
03	Adjustment body	Aluminum alloy	09	O-ring	NBR	15	O-ring	NBR
04	Block struck	Carbon steel	10	Pin	Bearing steel	16	Shaft packing	NBR
05	Connector	Iron	11	Hexagon screw	Alloy steel	17	Piston packing	NBR
06	Bearing	Bearing steel	12	Hexagon screw	Alloy steel			

Packing and O-ring material list

Item	NO.17 Piston packing	NO.16 Shaft packing	NO.15 O-ring	NO.09 O-ring
Bore size \ Quantity	1	1	1	3
Ø 10	APA-10	MY-6A	Ø10×Ø1	Ø12×Ø1.5
Ø 16	APA-16	MY-8A	Ø14×Ø1	Ø17.5×Ø1.5
Ø 20	APA-20	MY-10A	Ø18×Ø1	Ø22×Ø1.5
Ø 25	APA-25	MY-12A	Ø20×Ø1.2	Ø25.5×Ø1.5

Product weight

Bore size	Weight (kg)
Ø10	0.88
Ø16	1.3
Ø20	1.6
Ø25	2.6

Note: All of above are theoretical data.
Weight tolerance about ±5%

RB series Rotary Actuated Air Gripper

Mounting type and operation of sensor switch

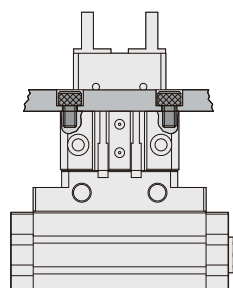
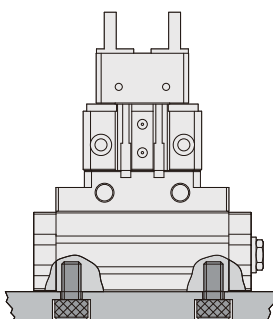
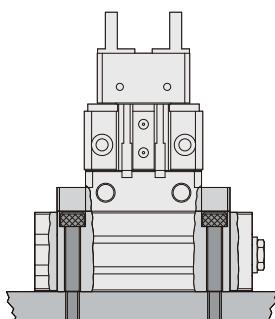
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Mounting type

● Upper installation

● Bottom installation

● Gripper unit installation



HDQ

HDQT

HDQM

HMQ

HMT

HDL

HDT

HDF

RM

RB

Sensor switch adjustment on gripper

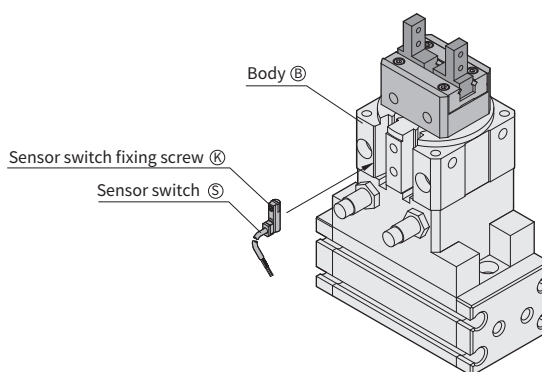
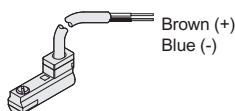
Adjustment:

1. Put sensor switch (S) on the body (B) in front of slot and insert sensor switch to the slot.
2. Insert sensor switch (S) to the slot at the appropriate position and screw (K) in.

● Sensor switch introduction

CS-8B

Voltage: DC 5~30V



Sensor switch adjustment on rotary cylinder

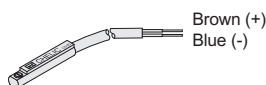
Adjustment:

1. Put sensor switch (S) on the body (P) in front of slot and insert sensor switch to the slot.
2. Insert sensor switch (S) to the slot at the appropriate position and screw (K) in.

● Sensor switch introduction

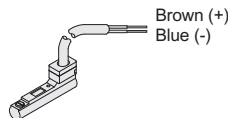
CS-9D

Voltage: DC 5 ~ 120V
AC 5 ~ 120V



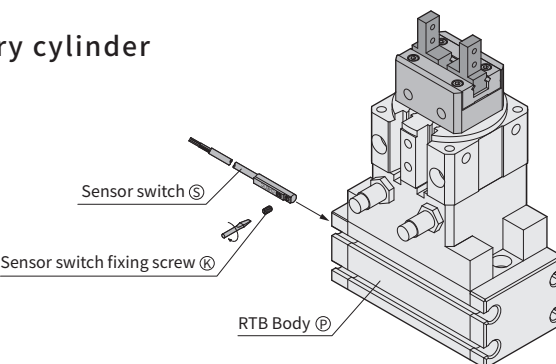
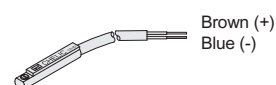
CS-9B

Voltage: DC 5 ~ 120V
AC 5 ~ 120V



CS-9H

Voltage: DC 5 ~ 240V
AC 5 ~ 240V



RBW series Rotary Actuated Air Gripper

Product features/ Code of order

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Feature

- 90° , 180° rotary and gripping
- Double force rotary
- Wedge bevel structure



Specification

Item		Bore size (mm)	Ø10	Ø16	Ø20	Ø25
Action			Double acting			
Fluid			Air			
Pressure range kgf / cm ² (kPa)	Gripper unit		2 ~ 7 (200 ~ 700)			
	Rotary unit		2 ~ 7 (200 ~ 700)			
Ambient and fluid temperature		°C	5 ~ 60			
Rotation angle		°	90, 180			
Torque force		N · m	0.6	1.5	2.2	3.2
Allowable kinetic energy		J	0.006	0.007	0.025	0.048

Code of order **RBW 10 A - 180 - 8B 2 - 9D 2**

1 2 3 4 5 6 7

1	Mark	Bore size (mm)
	10	Ø10
	16	Ø16
	20	Ø20
	25	Ø25

2	Mark	Starting Position	Description
	A		B port face to gripper in horizontal position
	B		B port face to gripper in vertical position

3	Mark	Rotation angle
	90	90°
	180	180°

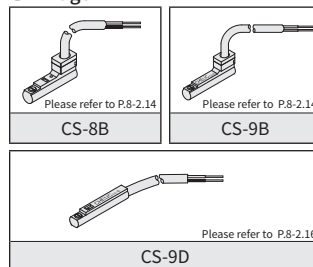
4	Mark	Sensor switch on gripper
	None	Without sensor switch
	8B	CS-8B

5	Mark	Proximity sensor quantity
	1	With 1 proximity sensor
	2	With 2 proximity sensors

6	Mark	Sensor switch on rotary cylinder
	None	Without sensor switch
	9D	CS-9D
	9B	CS-9B

7	Mark	Sensor quantity
	1	With 1 sensor switch
	2	With 2 sensor switches

Image



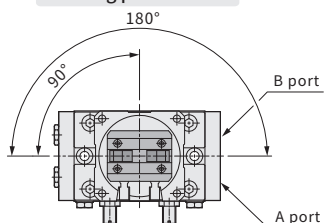
RBW series Rotary Actuated Air Gripper

Rotation range, Characteristics graph

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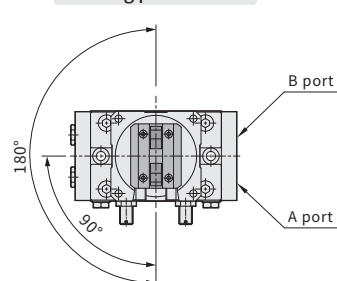
Rotation range

Starting position at A



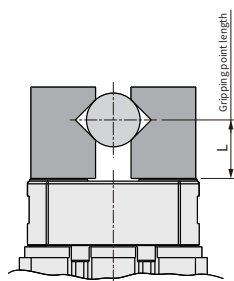
● From top view, B port is to activate gripper

Starting position at B

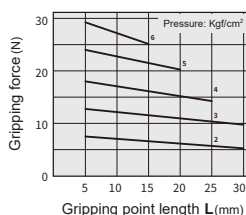


● From top view, B port is to activate gripper

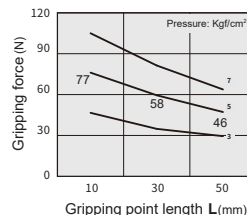
External grip



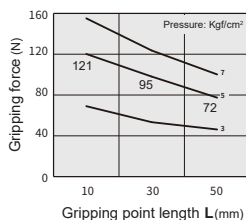
● RBW 10



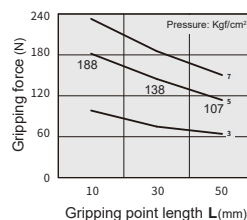
● RBW 16



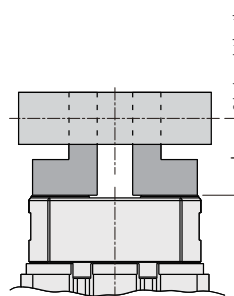
● RBW 20



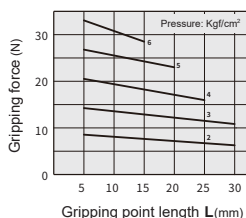
● RBW 25



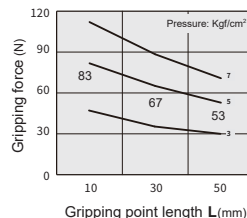
Internal grip



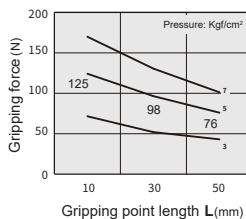
● RBW 10



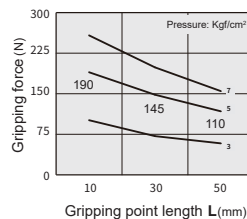
● RBW 16



● RBW 20



● RBW 25



HDQ

HDQT

HDQM

HMQ

HMT

HDL

HDT

HDF

RM

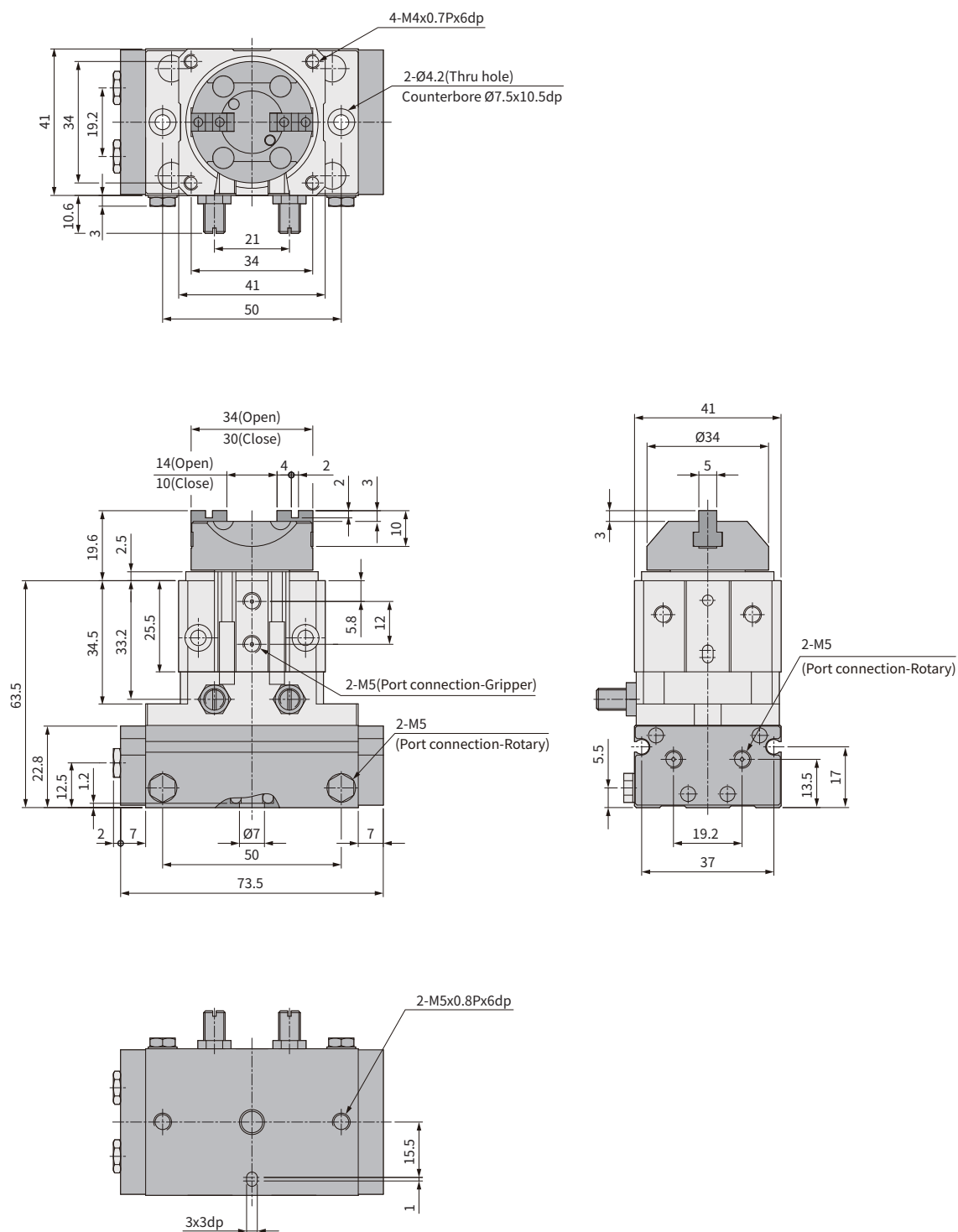
RB

RBW series Rotary Actuated Air Gripper

Dimensions

CHELIC

RBW 10

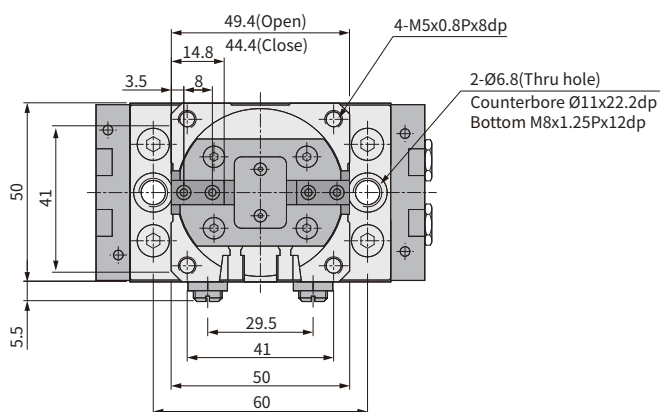


RBW series Rotary Actuated Air Gripper

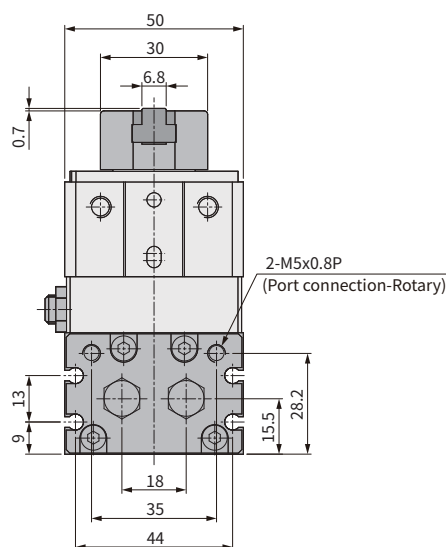
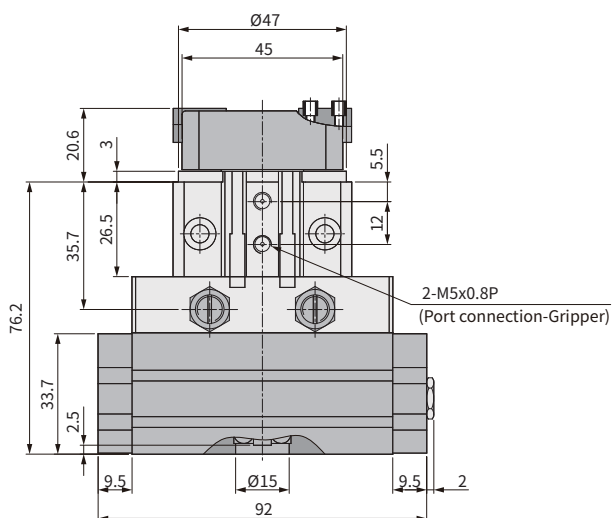
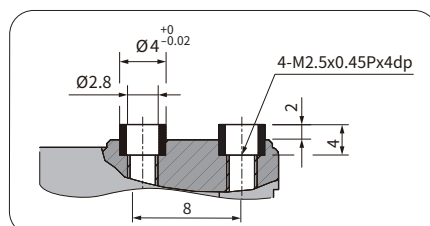
Dimensions

CHELIC

RBW 16



Close-up of centering sleeve



HDQ

HDQT

HDQM

HMQ

HMT

HDL

HDT

HDF

RM

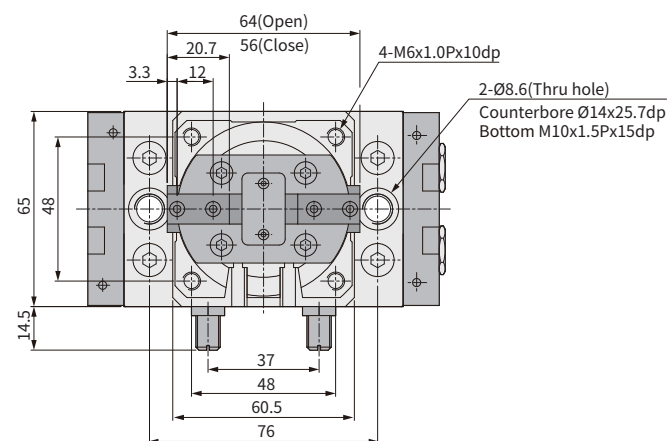
RB

RBW series Rotary Actuated Air Gripper

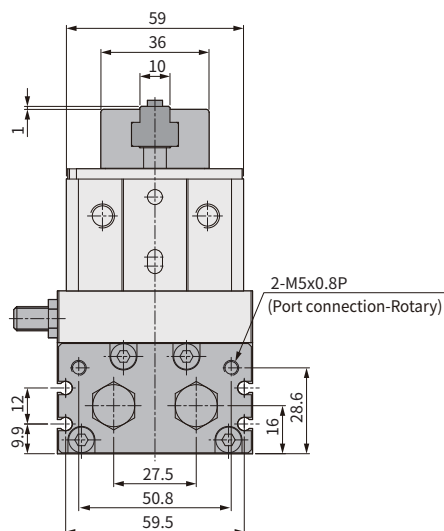
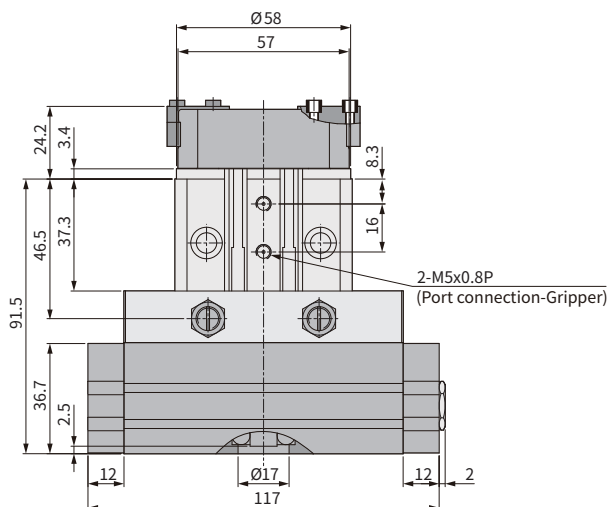
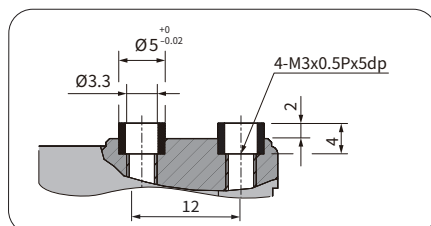
Dimensions

CHELIC

RBW 20



Close-up of centering sleeve

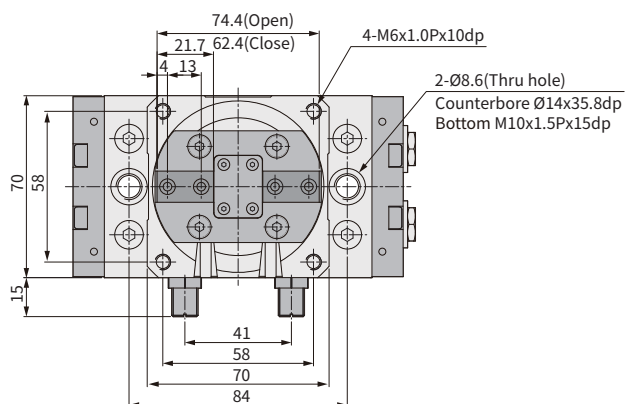


RBW series Rotary Actuated Air Gripper

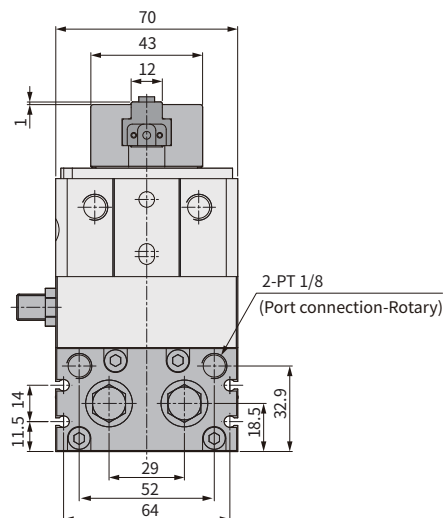
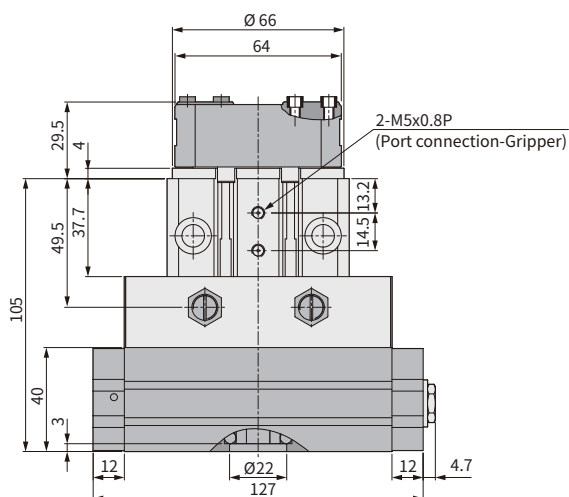
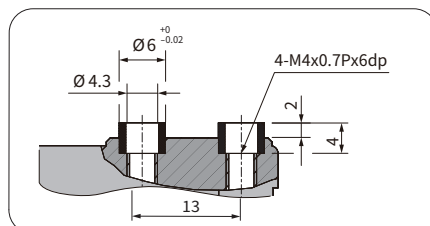
Dimensions

CHELIC

RBW 25



Close-up of centering sleeve



HDQ

HDQT

HDQM

HMQ

HMT

HDL

HDT

HDF

RM

RB