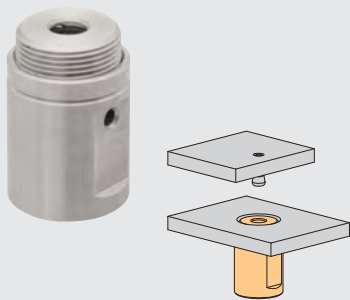




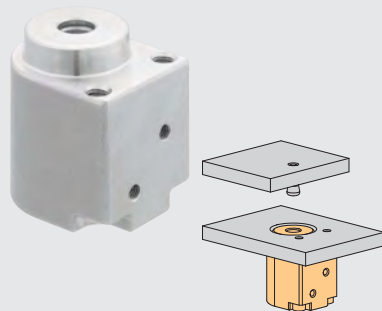
Pneumatic Clamping Fasteners





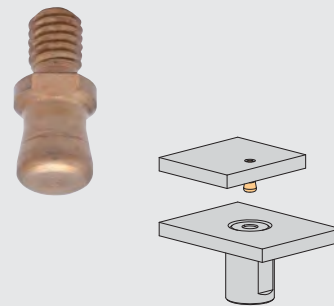
PNEUMATIC PIN HOLDING CLAMP

Part No. PPHC-S



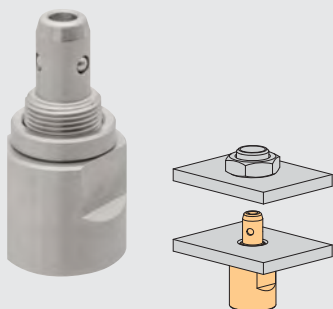
PNEUMATIC PIN HOLDING CLAMP

Part No. PPHC-D



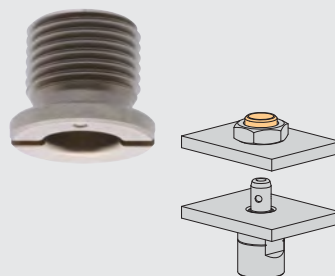
CLAMPING PIN

Part No. QCPC-M



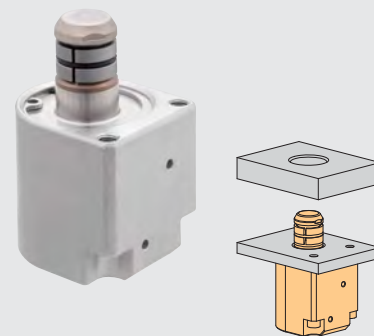
PNEUMATIC BALL-LOCKING CLAMPS

Part No. PBLC



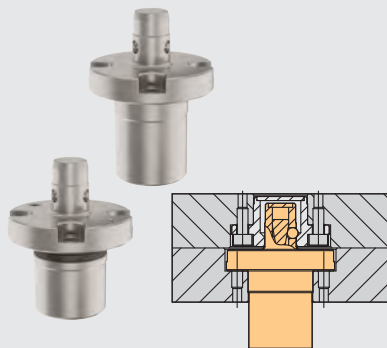
BALL-LOCK RECEPTACLE

Part No. PBLC-M



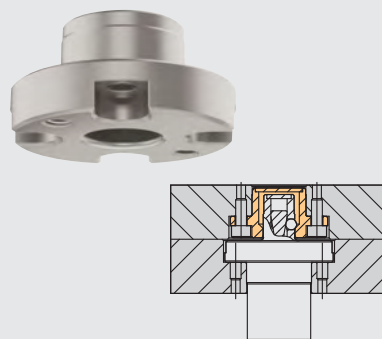
PNEUMATIC ID HOLDING CLAMP

Part No. PIDHC



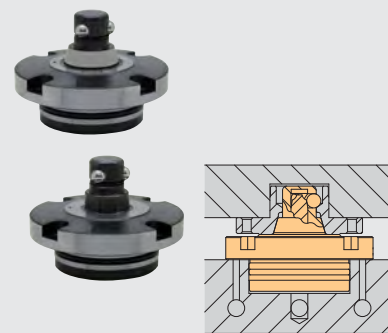
PNEUMATIC FLEX LOCATOR PINS

Part No. AMWF-L-S



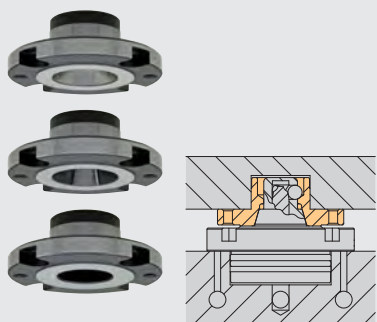
PNEUMATIC FLEX LOCATOR BUSHINGS

Part No. AMWF-BU



PNEUMATIC FLEX LOCATOR PINS

Part No. AMWF-W



PNEUMATIC FLEX LOCATOR BUSHINGS

Part No. AMWF-BU



PPHC-S

PNEUMATIC PIN HOLDING CLAMP

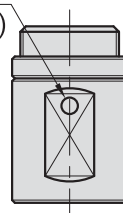


Stainless Steel

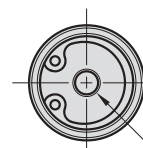
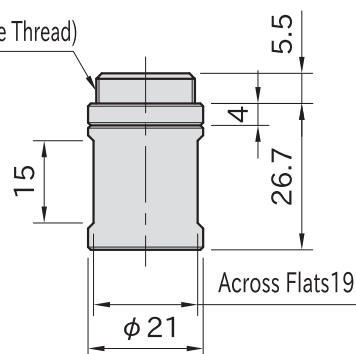
IMAO



Air Vent
(One Side)



M18X1 (Fine Thread)



Pneumatic Port
M5×0.8

★Key Point

Compact pull down clamp

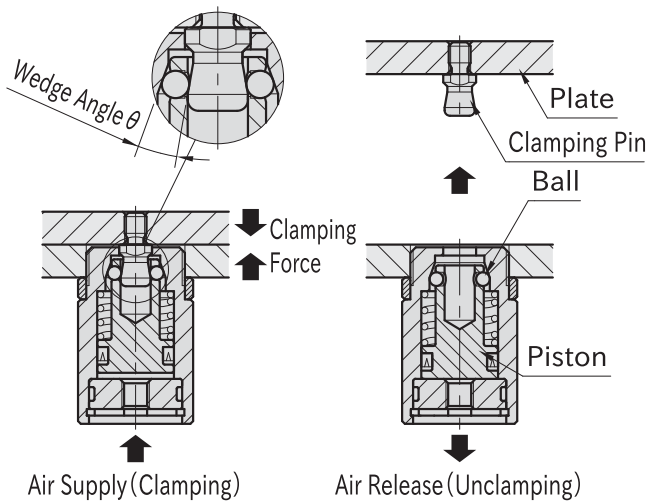
| Body/Piston | Wedge/Ball | Spring | Retaining Ring | Seal |
|------------------------|--|---------------------------|------------------------|----------------------|
| SUS303 stainless steel | SUS440C stainless steel Quenched and tempered | SUS304WPB stainless steel | SUS304 stainless steel | Nitrile rubber (NBR) |

| Part Number | Operating Air Pressure (MPa) | Clamping Force (N) *) | Weight (g) | Proper Clamping Pin |
|----------------------|------------------------------|-----------------------|------------|------------------------|
| PPHC0621S-SUS | 0.3~0.7 | 30 | 62 | QCPC0625-M4-SUS |

*) The clamping force above is at 0.5 MPa.

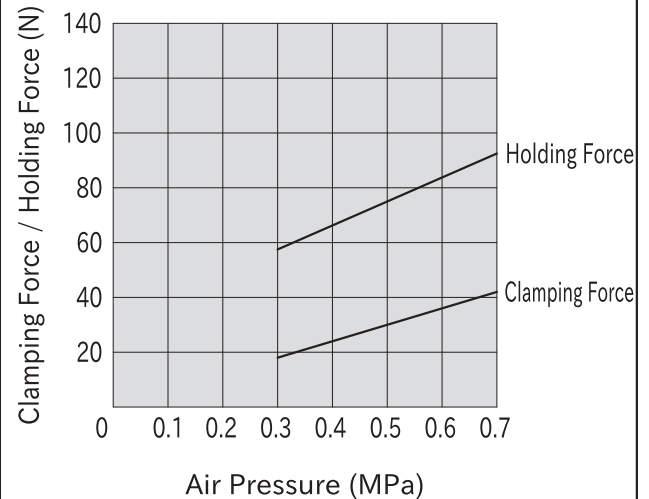
| QCPC-M | CLAMPING PIN |
|--------|--------------|
| | |

Feature



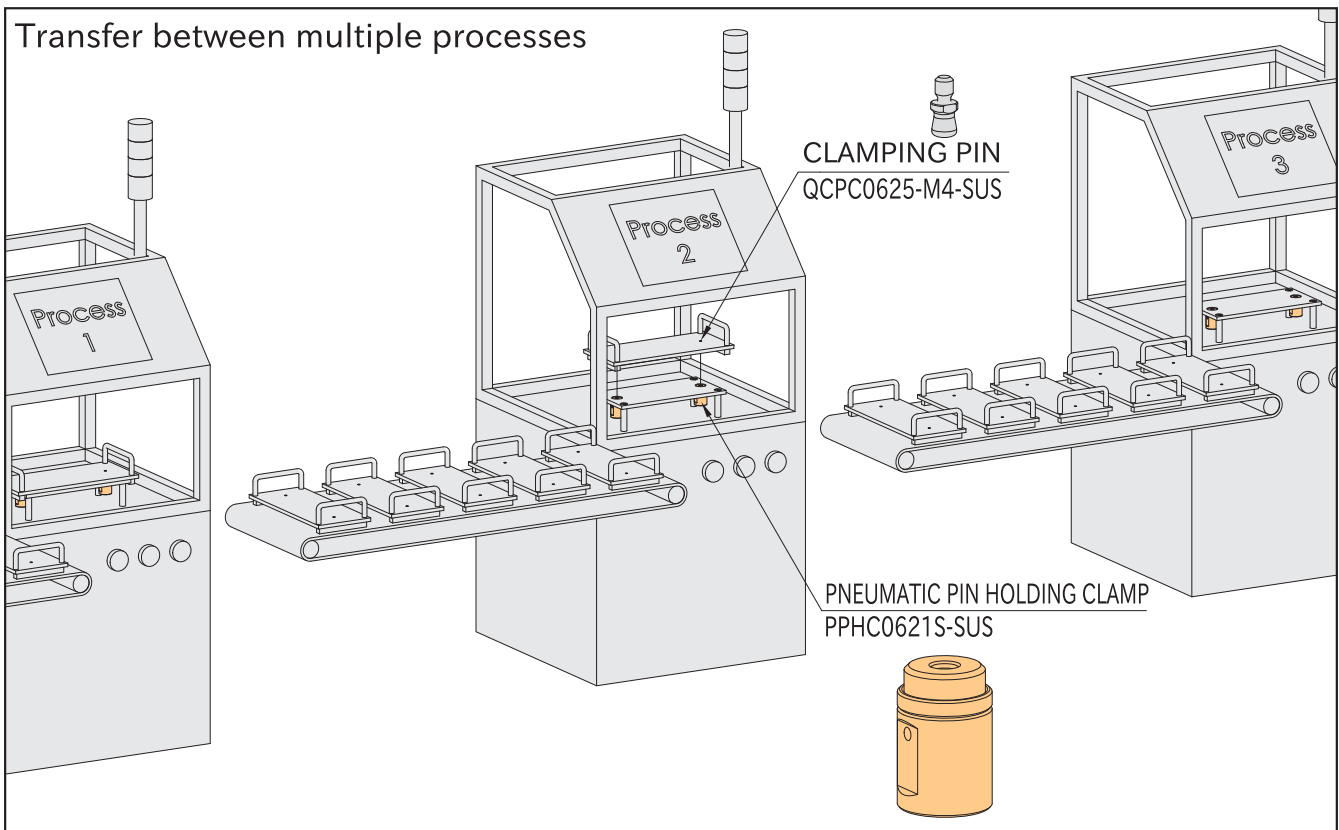
- The piston goes up by air supply and the balls move toward the center to pull down the clamping pin.
- The wedge clamping prevents the plate from lifting up.

Performance Curve

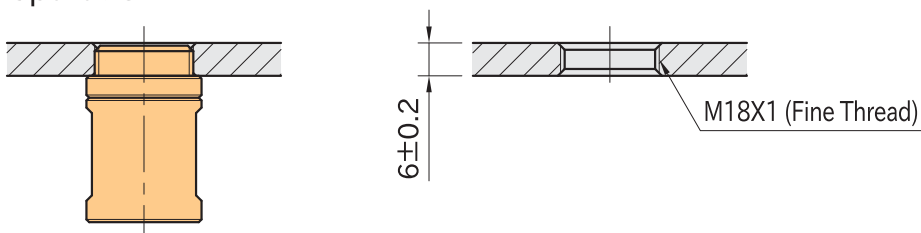


Application Example

Transfer between multiple processes



■ Hole Preparation



■ Machining Accuracy

Spacing tolerance for multiple use should be ± 0.1 .

■ Repeatability

Repeatability is ± 0.2 .

For higher accurate locating, use locating pins.

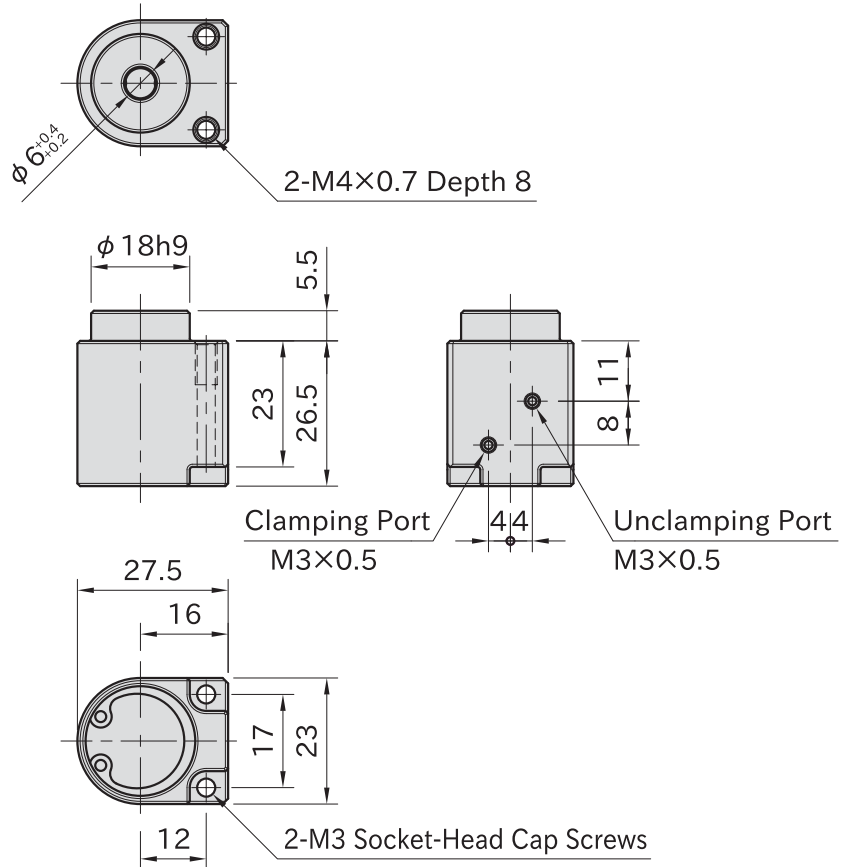
PPHC-D

PNEUMATIC PIN HOLDING CLAMP



Stainless Steel

IMAO



★Key Point

Double-acting pull down clamp

| Body | Piston | Wedge/Ball | Spring | Retaining Ring | Seal |
|---|---------------------------|--|------------------------------|---------------------------|-------------------------|
| SCS13 stainless steel (equivalent to SUS304) | SUS303 stainless steel | SUS440C stainless steel Quenched and tempered | SUS304WPB stainless steel | SUS304 stainless steel | Nitrile rubber (NBR) |

| Part Number | Operating Air Pressure (MPa) | Clamping Force (N) | | Weight (g) | Proper Clamping Pin |
|---------------|------------------------------|--------------------|-----------------|------------|---------------------|
| | | With Air *) | Without Air **) | | |
| PPHC0623D-SUS | 0.3~0.7 | 40 | 6 | 105 | QCPC0625-M4-SUS |

*) The clamping force above is at 0.5 MPa.

**) Inner spring provides clamping without air supply.

Supplied With

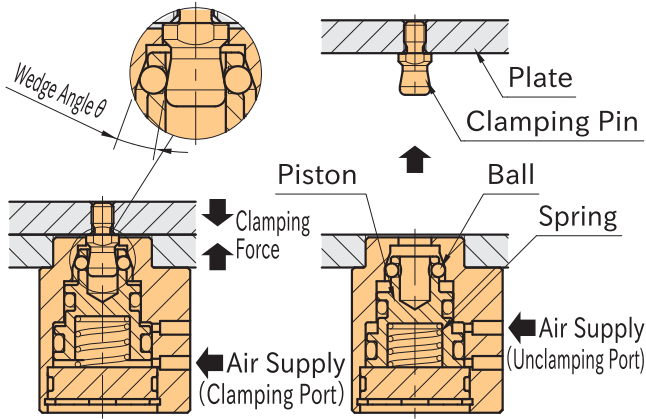
2 of socket-head cap screws(stainless steel), M3×0.5-28L

QCPC-M

CLAMPING PIN

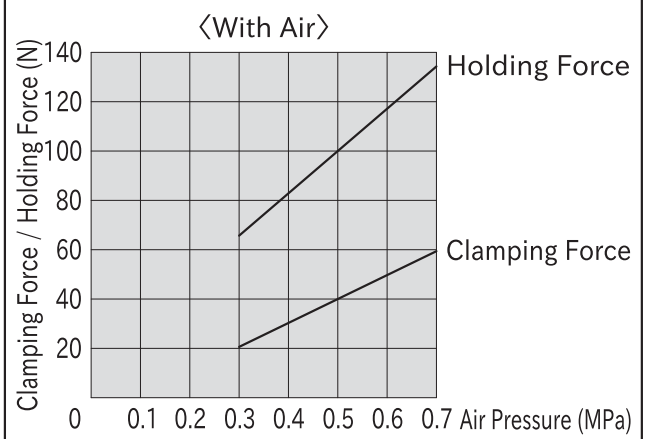


Feature



- The piston goes up by air supply from clamping port and the balls move toward the center to pull down the clamping pin.
- The wedge clamping prevents the plate from lifting up.
- Inner spring keeps clamping without air supply.

Performance Curve

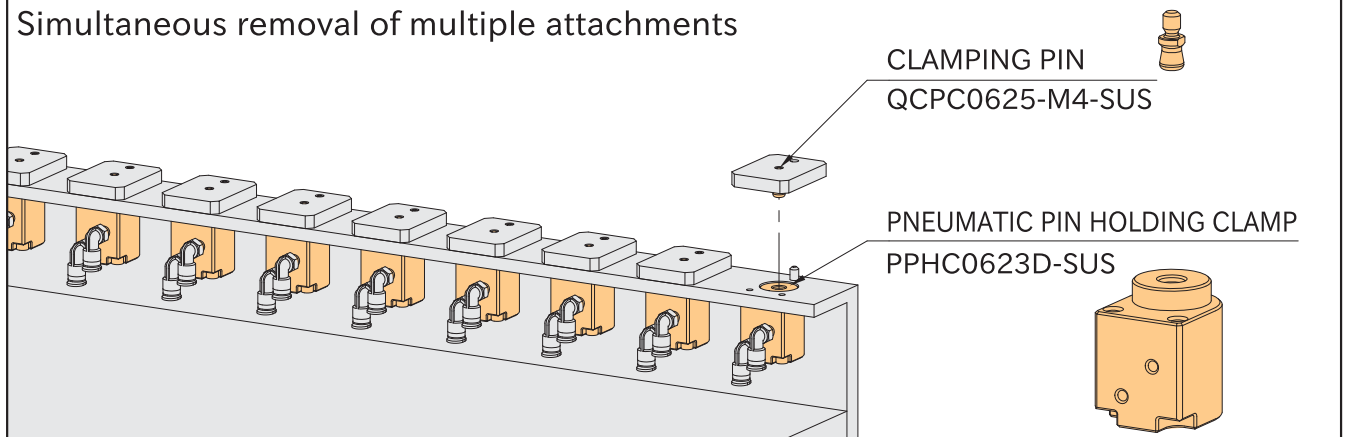


〈Without Air〉

| Clamping Force (N) | Holding Force (N) |
|--------------------|-------------------|
| 6 | 40 |

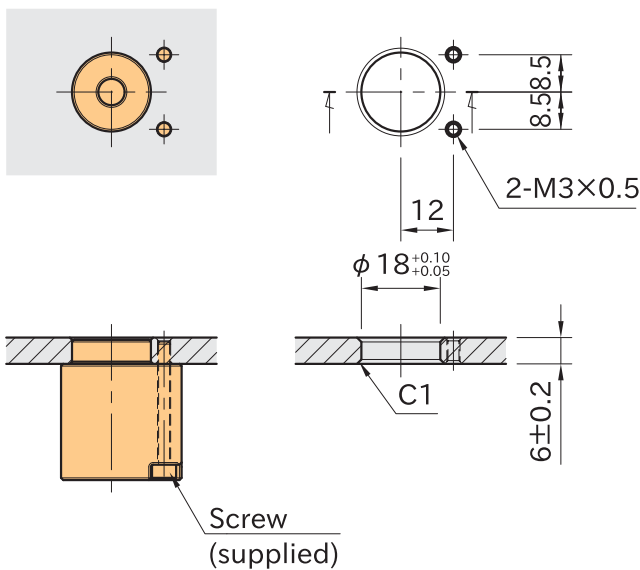
Application Example

Simultaneous removal of multiple attachments

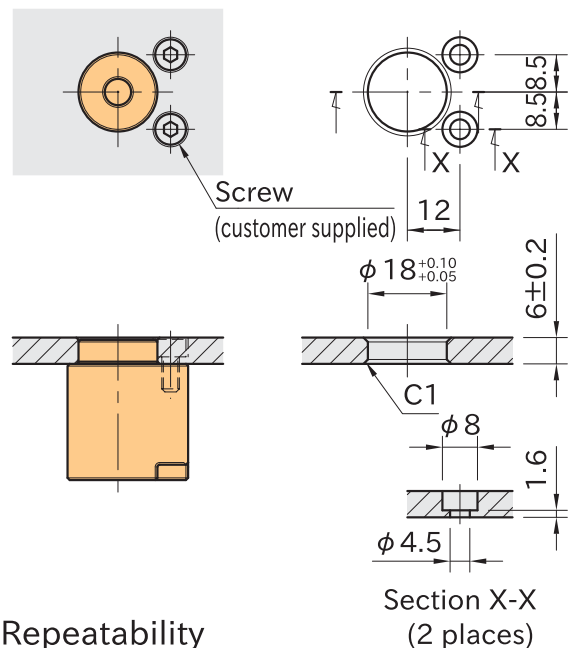


Hole Preparation

With M3 Socket-Head Cap Screws (supplied)



With M4 Socket-Head Cap Screws (customer supplied)



Machining Accuracy

Spacing tolerance for multiple use should be ± 0.1 .

Repeatability

Repeatability is ± 0.2

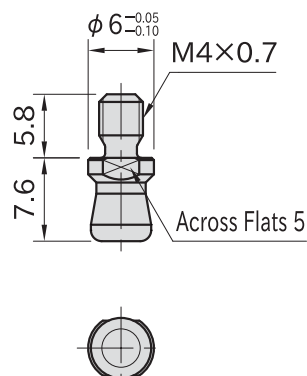
For higher accurate locating, use locating pins.

QCPC-M

CLAMPING PIN



Stainless Steel



Body

SUS630 stainless steel
Precipitation hardened

| Part Number | Weight (g) | Proper pneumatic pin holding clamps |
|-----------------|------------|-------------------------------------|
| QCPC0625-M4-SUS | 2 | PPHC0621S-SUS, PPHC0623D-SUS |

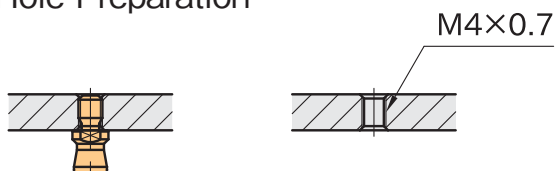
Note: Spacing tolerance for multiple use should be ± 0.1 .
Refer to the product pages of clamps for repeatability.

Note

Color difference by the hardening treatment does not affect function or quality of the product.

How To Install

Hole Preparation







PBL1023S-SUS

(Spring Clamping/Single Acting)



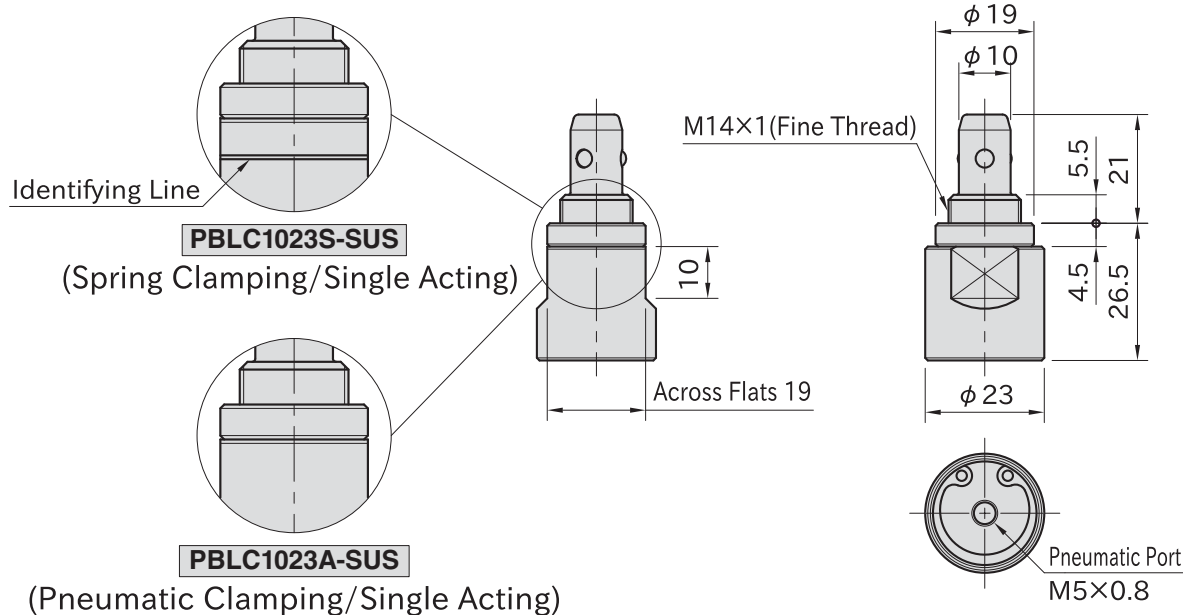
PBL1023A-SUS

(Pneumatic Clamping/Single Acting)

★Key Point

Two clamping types are available.

| Body | Shaft | Ball | Spring | Retaining Ring | Seal |
|------------------------|--|--|---------------------------|------------------------|----------------------|
| SUS303 stainless steel | SUS420J2 stainless steel Electroless nickel plated Quenched and tempered | SUS440C stainless steel Quenched and tempered | SUS304WPB stainless steel | SUS304 stainless steel | Nitrile rubber (NBR) |



| Part Number | Operating Air Pressure (MPa) | Clamping Force (N) | Weight (g) | Proper Receptacle |
|---------------------|------------------------------|--------------------|------------|---------------------|
| PBL1023S-SUS | 0.3~0.7 | 50 | 71 | PBL1023A-SUS |
| PBL1023A-SUS | | 150 *) | | |

*) The clamping force above is at 0.5 MPa.

PBL1023-M

BALL-LOCK RECEPTACLE

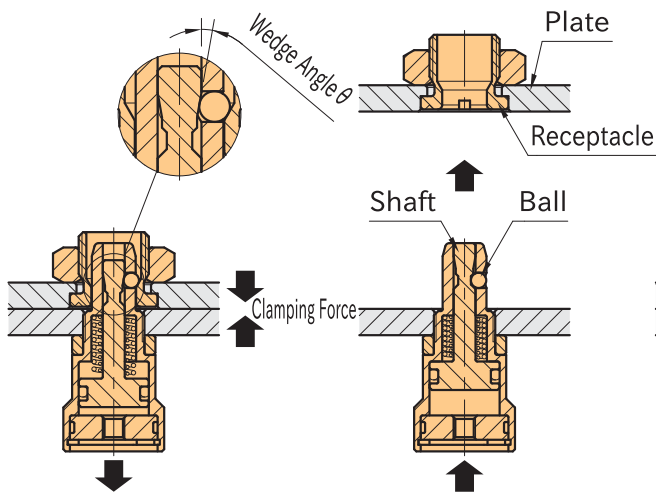


Note

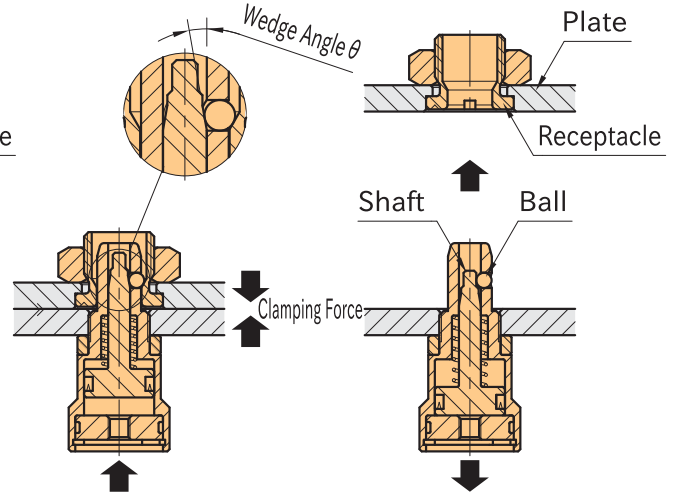
PBL1023S-SUS has an identifying line and **PBL1023A-SUS** does not.

Feature

PBLC1023S-SUS (Spring Clamping)



PBLC1023A-SUS (Pneumatic Clamping)



Air Release (Clamping)

Air Supply (Unclamping)

Air Supply (Clamping)

Air Release (Unclamping)

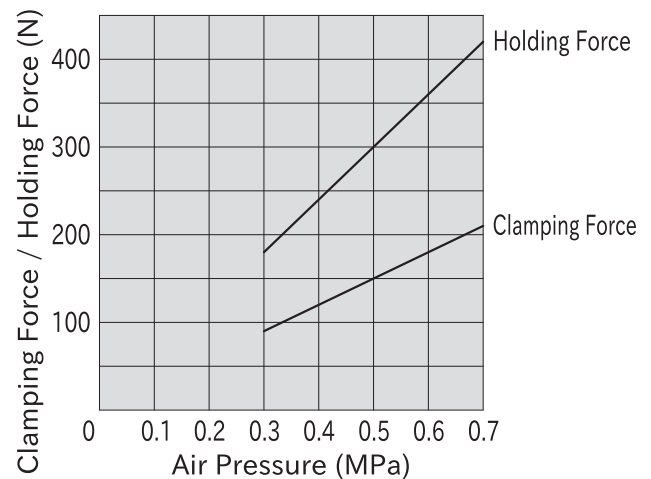
- The shaft pushes out the balls onto the tapered surface of the receptacle to pull down the plate.
- The wedge clamping prevents the plate from lifting up.
- Spring clamping type can keep clamping without air supply.

Performance Curve

PBLC1023S-SUS (Spring Clamping)

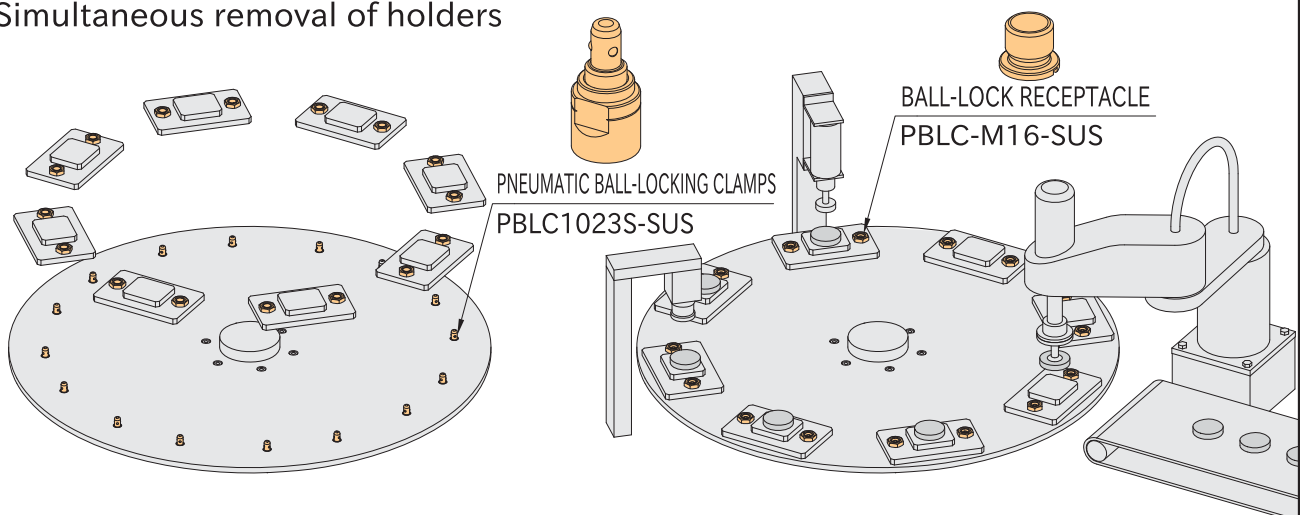
| Clamping Force (N) | Holding Force (N) |
|--------------------|-------------------|
| 50 | 150 |

PBLC1023A-SUS (Pneumatic Clamping)



Application Example

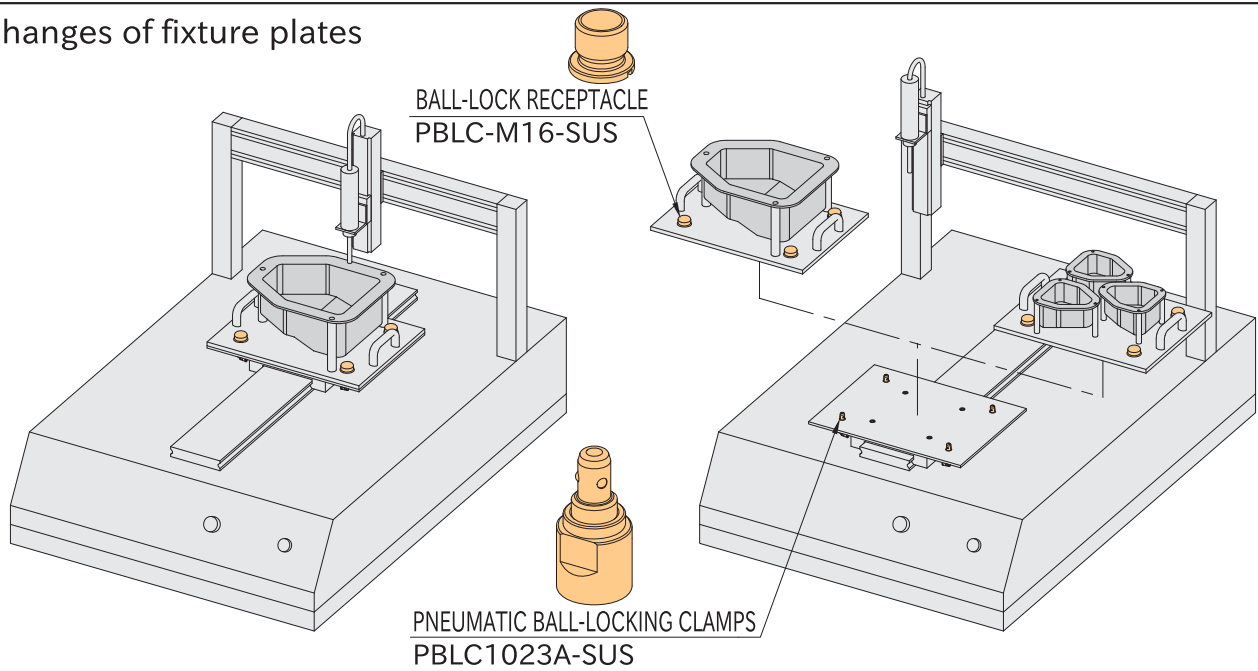
Simultaneous removal of holders



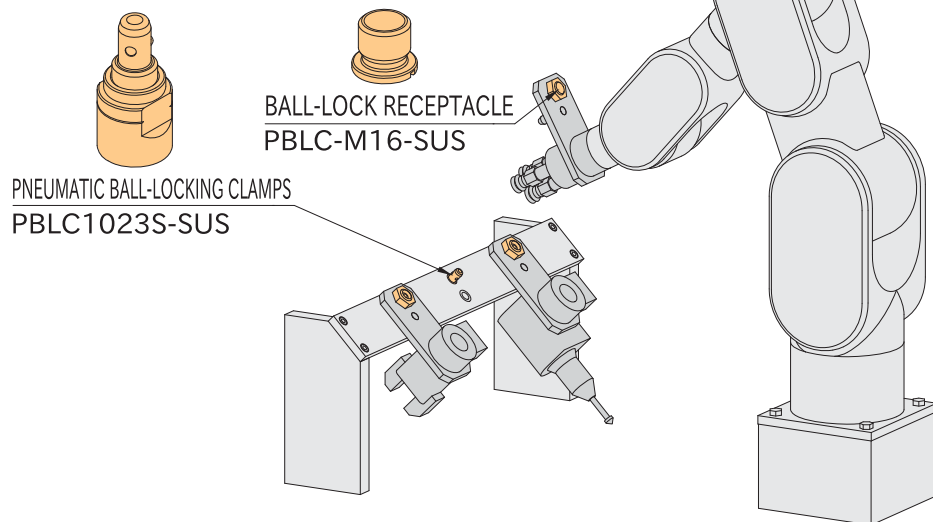
Continuing on Next Page

Application Example

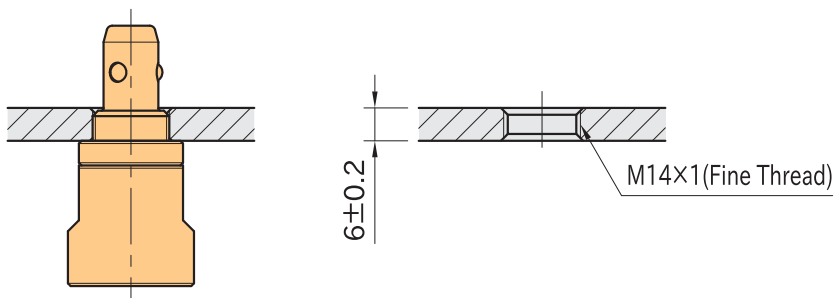
Changes of fixture plates



Fixing robot hands on storage shelf



■ Hole Preparation



■ Machining Accuracy

Spacing tolerance for multiple use should be ± 0.1 .

■ Repeatability

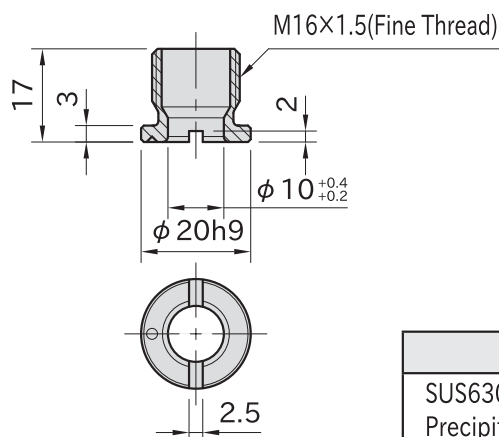
Repeatability is ± 0.2 .
For higher accurate locating, use locating pins.

PBLC-M

BALL-LOCK RECEPTACLE



Stainless Steel



| Body |
|--|
| SUS630 stainless steel Precipitation hardened |

| Part Number | Proper Plate Thickness | Weight (g) | Proper Pneumatic Ball-Locking Clamps |
|---------------------|------------------------|------------|--------------------------------------|
| PBLC-M16-SUS | 6 or more | 13 | PBLC1023S-SUS, PBLC1023A-SUS |

※Note: Spacing tolerance for multiple use should be ± 0.1 .
Refer to the product pages of clamps for repeatability.



Note

Color difference by the hardening treatment does not affect function or quality of the product.

How To Install

Hole Preparation

Plate thickness: 6mm to 10mm

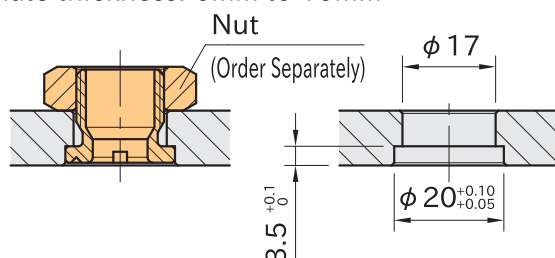
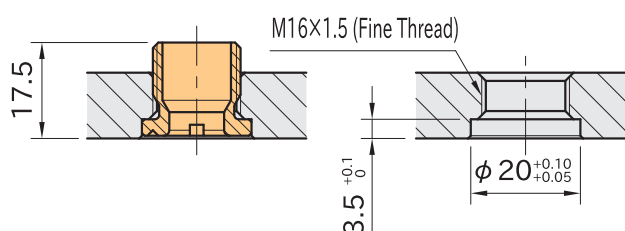
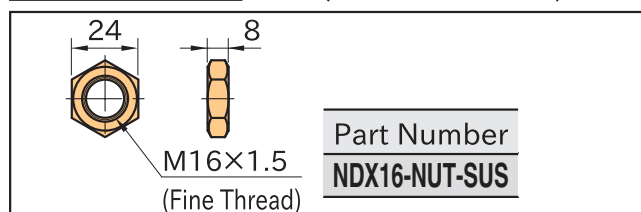


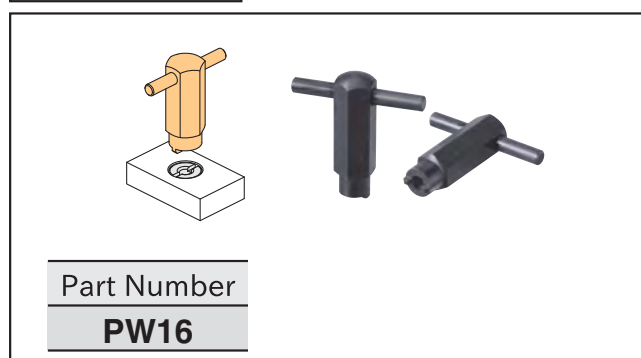
Plate thickness: over 10mm



Order Separately Nut (Stainless Steel)



Order Separately Installation Wrench





Stainless Steel



(Double Acting)

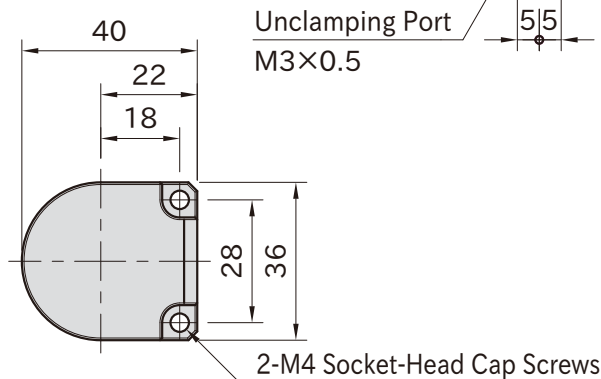
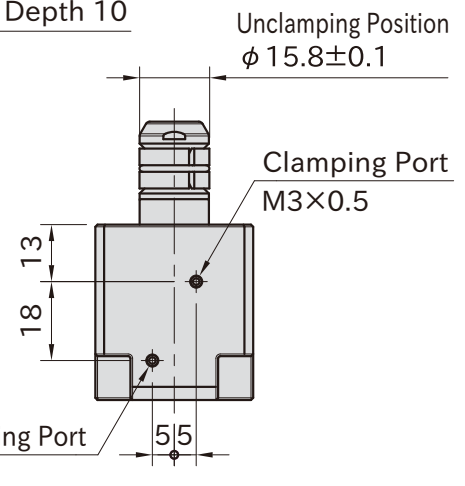
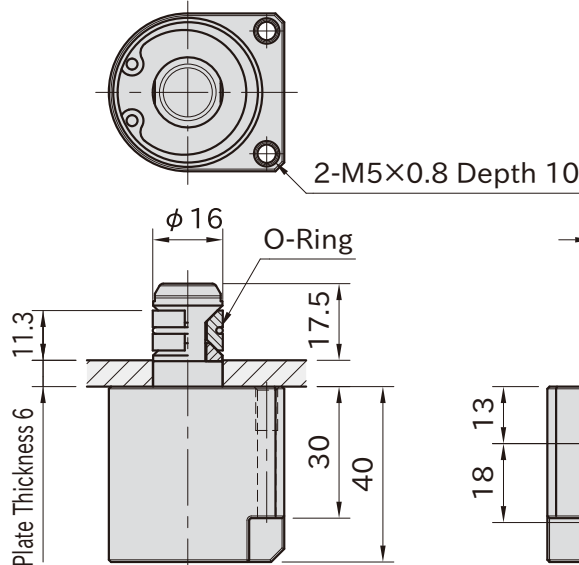
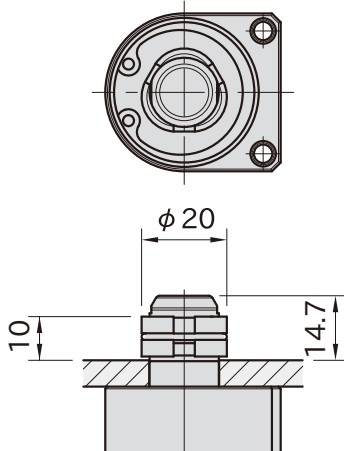
★Key Point

Holds the internal diameter

| Body | Jaw/Washer | Piston | |
|--|--|---------------------------|----------------------------|
| SCS13 stainless steel (Equivalent to SUS304) | SUS630 stainless steel Precipitation hardened | SUS303 stainless steel | |
| Pulling Shaft | Spring | Retaining Ring | Seal |
| SUS420J2 stainless steel Electroless nickel plated Quenched and tempered | SUS304WPB stainless steel | SUS304 stainless steel | Nitrile rubber (NBR) |

Clamping Dia. $\phi 20$

Clamping Dia. $\phi 16$



| Part Number | Recommended Clamping Dia. *) | Operating Air Pressure (MPa) | Holding Force (N) **) | Weight (g) | O-Ring Size for Replacement |
|--------------------|------------------------------|------------------------------|-----------------------|------------|-----------------------------|
| PIDHC20-SUS | $\phi 16 \sim \phi 20$ | 0.3~0.7 | 77 | 336 | S12 (CS 1.5/ID 11.5) |

*) Maximum Clamping Dia. is $\phi 22$.

**) The holding force above is with 0.5 MPa air pressure and SUS304 (surface roughness Ra1.6) workpiece.

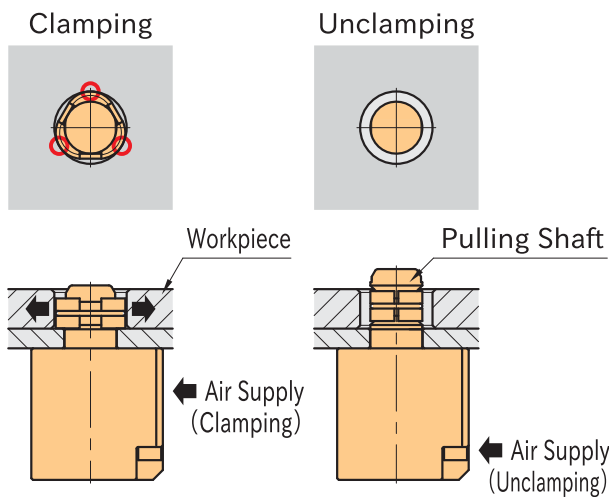
Supplied With

2 of socket-head cap screws(stainless steel), M4x0.7-35L

Note

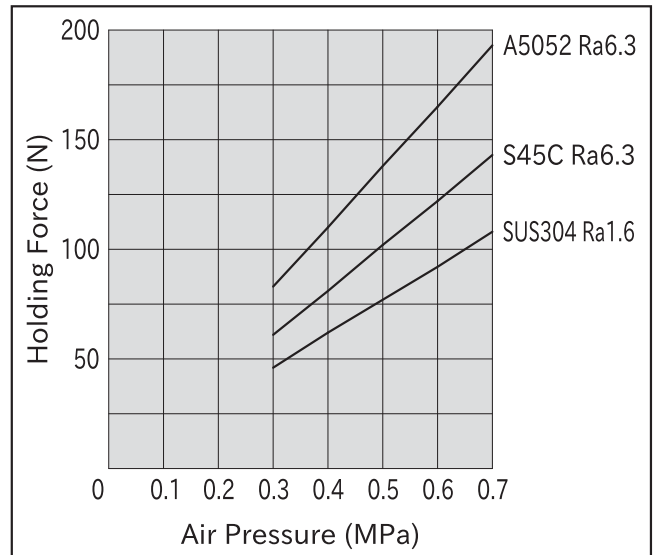
- Color difference by the hardening treatment does not affect function or quality of the product.
- Use clean air by removing moisture and debris with an air dryer and air filter.
- Impurities in the compressed air can cause malfunction.

Feature



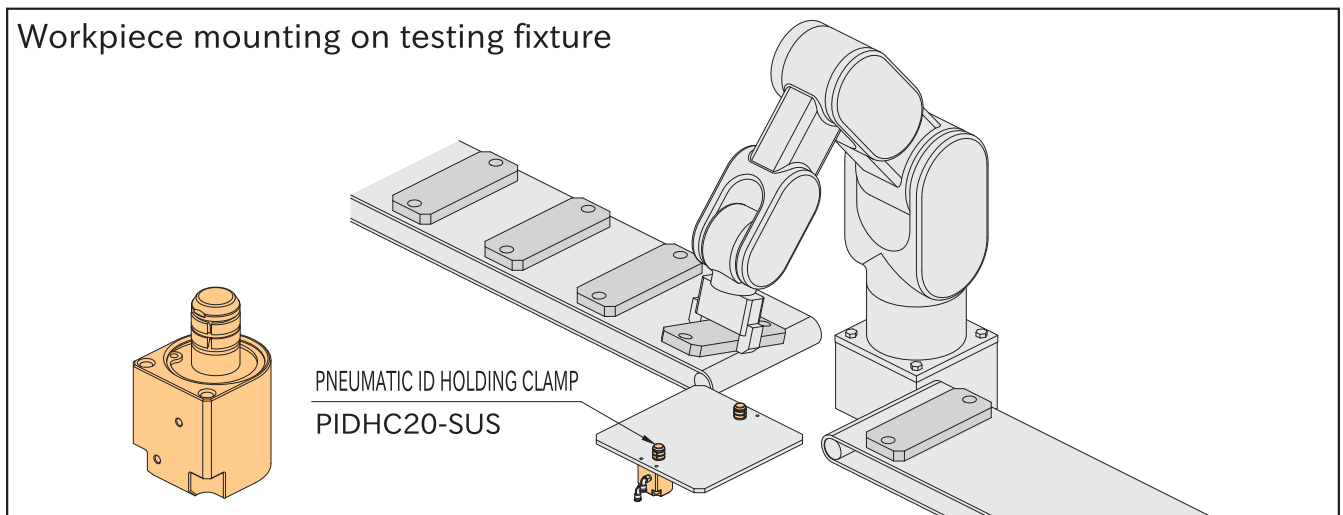
- The pulling shaft goes down by air supply from clamping port and the jaws expand to hold the workpiece.
- The clamp makes a line contact with the workpiece at 3 places.

Performance Curve



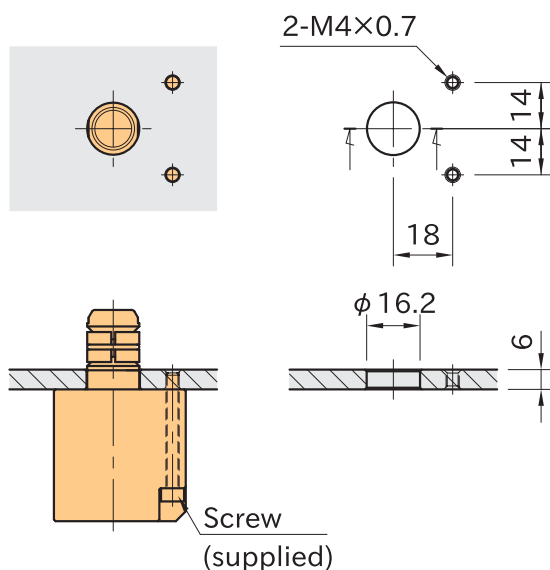
Application Example

Workpiece mounting on testing fixture

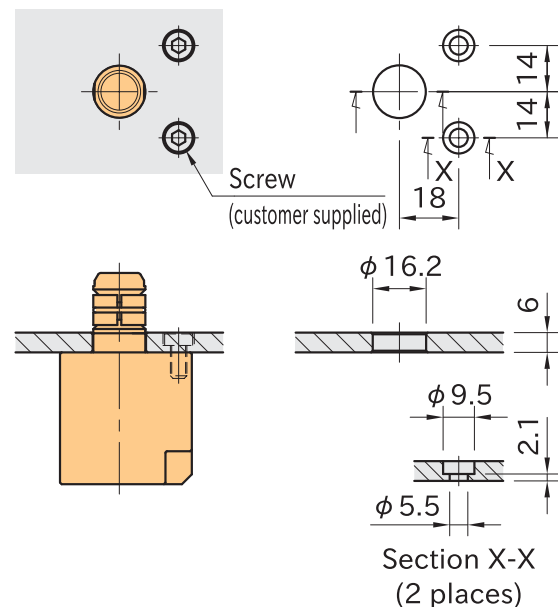


■ Hole Preparation

With M4 Socket-Head Cap Screws (supplied)



With M5 Low-Head Cap Screws (customer supplied)
(Dimension: head dia. 8.5, head height 3.5)



■ Repeatability

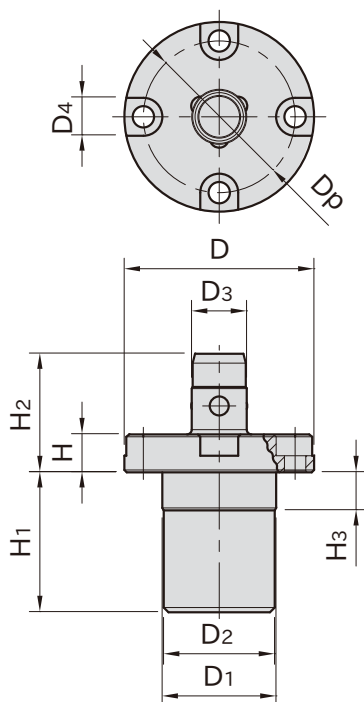
Estimated repeatability is ± 0.2 (clamping dia. $\phi 20$, without any load)



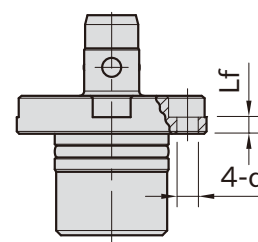
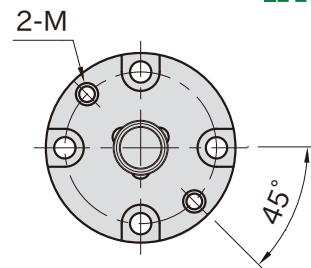
AMWF-L-S



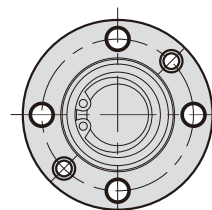
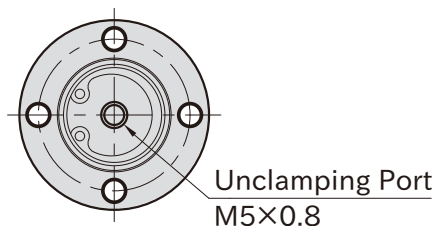
AMWF-L-S-G



AMWF-L-S (Port Style)



AMWF-L-S-G (Direct Style)



| Body | Ball | Coiled Spring |
|---|----------------------------|------------------------------|
| S45C steel Electroless nickel plated | SUS440C stainless steel | SUS304WPB stainless steel |

| Part Number | D ₁ (g6) | H ₃ | D ₂ | H ₁ | D | H | D ₃ (h8) | H ₂ | d | Lf | D ₄ | Dp |
|--------------|------------------------|----------------|----------------|----------------|----|-----|------------------------|----------------|-----|-----|----------------|----|
| AMWF18L-4S | 24 | 8 | 23.4 | 29.5 | 40 | 8 | 12 | 25 | 4.5 | 3.5 | 8 | 32 |
| AMWF26L-4S | 32 | 8.5 | 31.4 | 31.7 | 51 | 9.5 | 16 | 28.5 | 5.5 | 4 | 9.5 | 41 |
| AMWF18L-4S-G | 24 | 8 | 23.4 | 24.5 | 40 | 8 | 12 | 25 | 4.5 | 3.5 | 8 | 32 |
| AMWF26L-4S-G | 32 | 8.5 | 31.4 | 25.5 | 51 | 9.5 | 16 | 28.5 | 5.5 | 4 | 9.5 | 41 |

| Part Number | M | Air Pressure (MPa) | Clamping Force (N) | Weight (g) |
|--------------|--------|-----------------------|-----------------------|---------------|
| AMWF18L-4S | — | 0.5 | 250 | 154 |
| AMWF26L-4S | — | | 350 | 289 |
| AMWF18L-4S-G | M4x0.7 | | 250 | 136 |
| AMWF26L-4S-G | M5x0.8 | | 350 | 252 |

Related Product

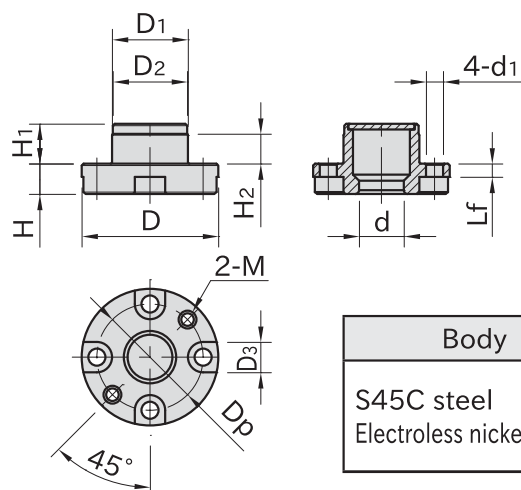
AMWF-BU LOCATING RECEIVERS

Reference

- How To Install PNEUMATIC FLEX LOCATORS
- How To Use PNEUMATIC FLEX LOCATORS

Note

- Use clean air by removing moisture and debris with an air dryer and air filter.
- Impurities in the compressed air can cause malfunction.



| Body |
|---|
| S45C steel Electroless nickel plated |

| Part Number | D ₁ (g6) | H ₂ | D ₂ | H ₁ | D | H | d (E7) | d ₁ | Lf | D ₃ | M | D _p | Weight (g) |
|------------------|------------------------|----------------|----------------|----------------|----|-----|-----------|----------------|-----|----------------|--------|----------------|---------------|
| AMWF18-BU | 20 | 7.5 | 19.6 | 10.5 | 36 | 8 | 12.1 | 4.5 | 3.5 | 8 | M4×0.7 | 28 | 57 |
| AMWF26-BU | 25 | 7 | 24.6 | 11 | 44 | 9.5 | 16.1 | 5.5 | 4 | 9.5 | M5×0.8 | 34 | 97 |

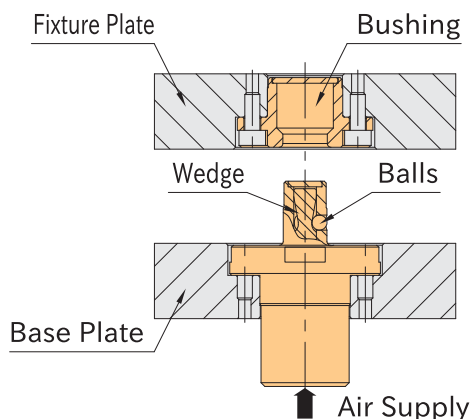
Reference

- How To Install PNEUMATIC FLEX LOCATORS
- How To Use PNEUMATIC FLEX LOCATORS

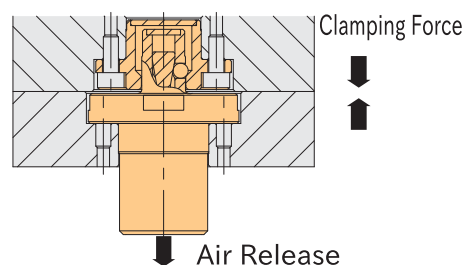
Related Product

AMWF-L-S PNEUMATIC FLEX LOCATOR PINS

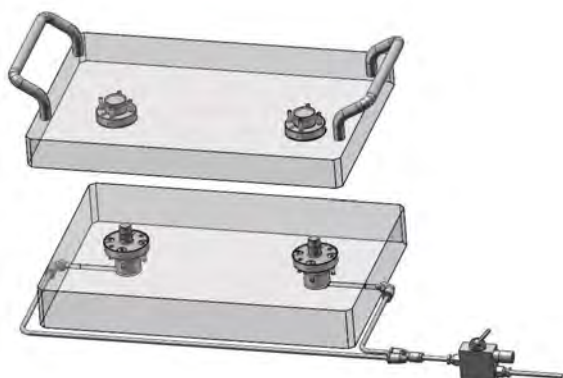
Feature



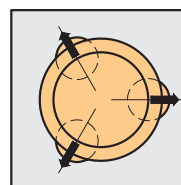
Supply air for unclamping.
The wedge goes up and releases the balls.



Release air for clamping. The wedge goes down and pushes the balls to pull down the bushing.
Can keep clamped without air supply.



Quick clamping and unclamping reduce set-up time in production equipment.



Locating Repeatability : $\pm 10 \mu\text{m}$
The bushing is centered and clamped when the 3 balls are pushed out to gain high locating repeatability.

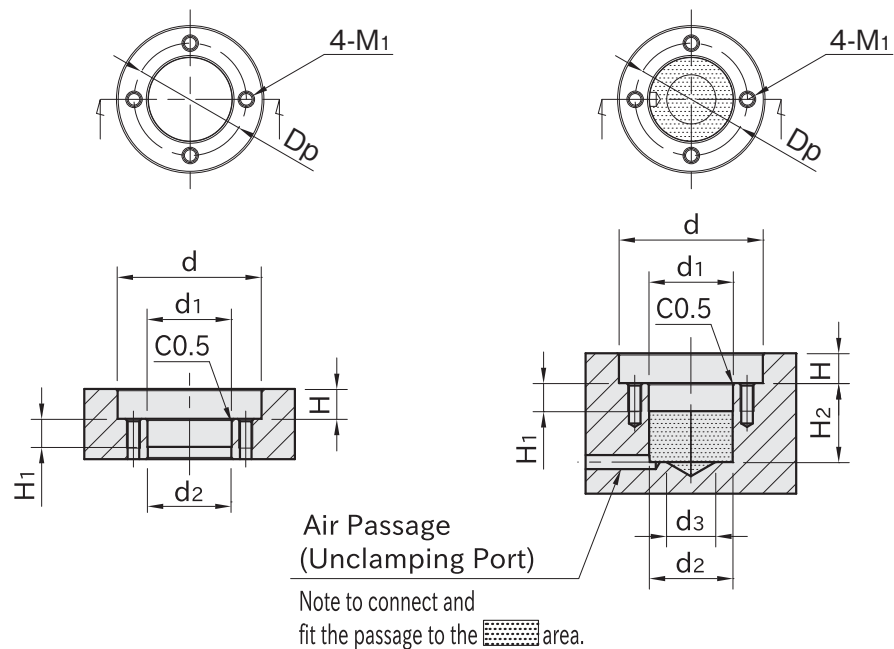
How To Install PNEUMATIC FLEX LOCATORS

■ Mounting Hole Dimensions

• Pins

AMWF-L-S (Port Style)

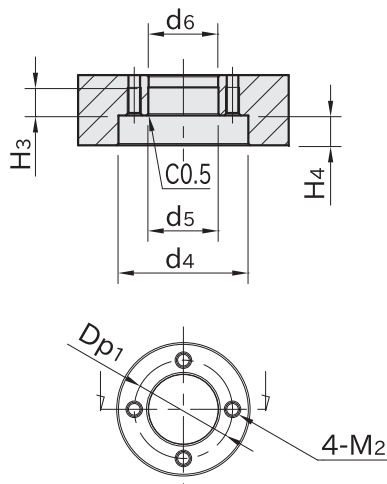
AMWF-L-S-G (Direct Style)



| Part Number | d ₁ (H7) | H ₁ | d ₂ | H ₂ | d ₃ | d | H (±0.05) | M ₁ | D _p |
|---------------------|------------------------|----------------|----------------|----------------|----------------|----|--------------|----------------|----------------|
| AMWF18L-4S | 24 | 8.5 | 23.8 | — | — | 41 | 8.5 | M4×0.7 Depth 8 | 32 |
| AMWF26L-4S | 32 | 9 | 31.8 | — | — | 52 | 10 | M5×0.8 Depth10 | 41 |
| AMWF18L-4S-G | 24 | 8.5 | 23.8 | 25.5 | 14 | 41 | 8.5 | M4×0.7 Depth 8 | 32 |
| AMWF26L-4S-G | 32 | 9 | 31.8 | 26.5 | 20 | 52 | 10 | M5×0.8 Depth10 | 41 |

• Bushings

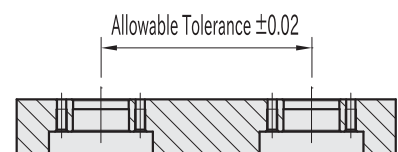
AMWF-BU (Bushing)



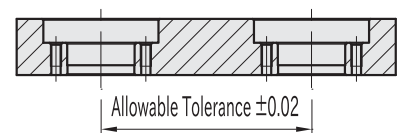
| Part Number | d ₅ (H7) | H ₃ | d ₆ | d ₄ | H ₄ (±0.05) | M ₂ | D _{p1} |
|------------------|------------------------|----------------|----------------|----------------|---------------------------|----------------|-----------------|
| AMWF18-BU | 20 | 8 | 19.8 | 37 | 8.5 | M4×0.7 Depth 8 | 28 |
| AMWF26-BU | 25 | 7.5 | 24.8 | 45 | 10 | M5×0.8 Depth10 | 34 |

■ Spacing Tolerance

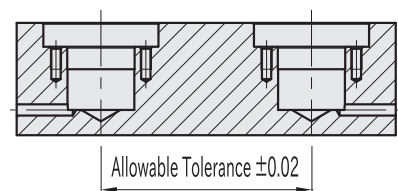
AMWF-BU (Bushing)



AMWF-L-S (Port Style)

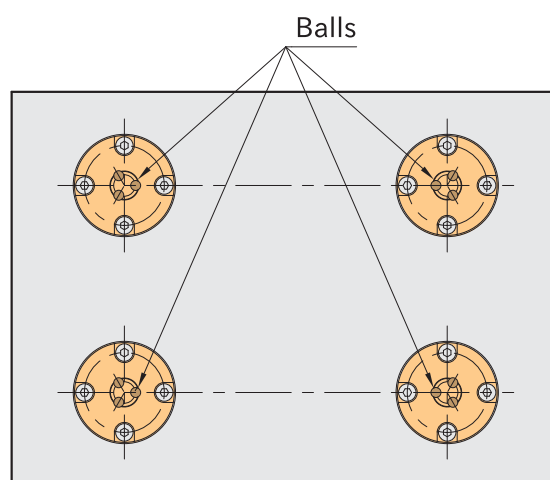
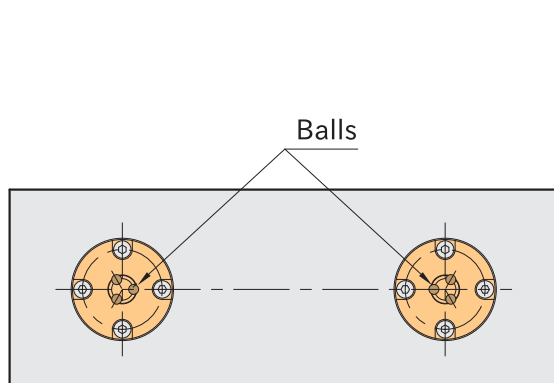


AMWF-L-S-G (Direct Style)



How To Use PNEUMATIC FLEX LOCATORS

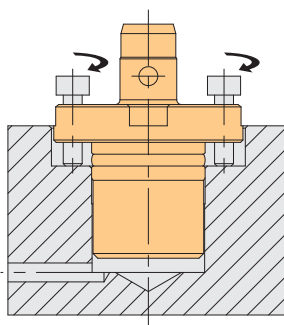
■ How to Use



The pins should be mounted in the direction shown in the above figures.

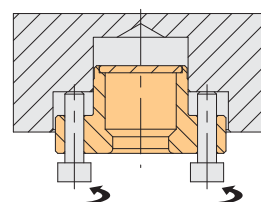
■ How to Remove (Direct Style Pins)

For easier removal, insert screws into the tapped holes and screw them.



■ How to Remove (Bushings)

For easier removal, insert screws into the tapped holes and screw them.



! Note

| Size | Max. Loading Weight (kg) |
|---------------|--------------------------|
| AMWF18 | 40 |
| AMWF26 | 56 |

- If the total weight exceeds the maximum loading weight, the locating repeatability may exceed $\pm 10 \mu\text{m}$.
- In vertical use, the locating repeatability may exceed $\pm 10 \mu\text{m}$.
- Pins and Bushings should be positioned equally against the center of the fixture plate.
- For Port Style Pins, use with air joint that is available commercially.

Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

Note: The maximum loading weight shown is the value when two sets each of **AMWF-L-S** Pins and **AMWF-BU** Bushings are used.

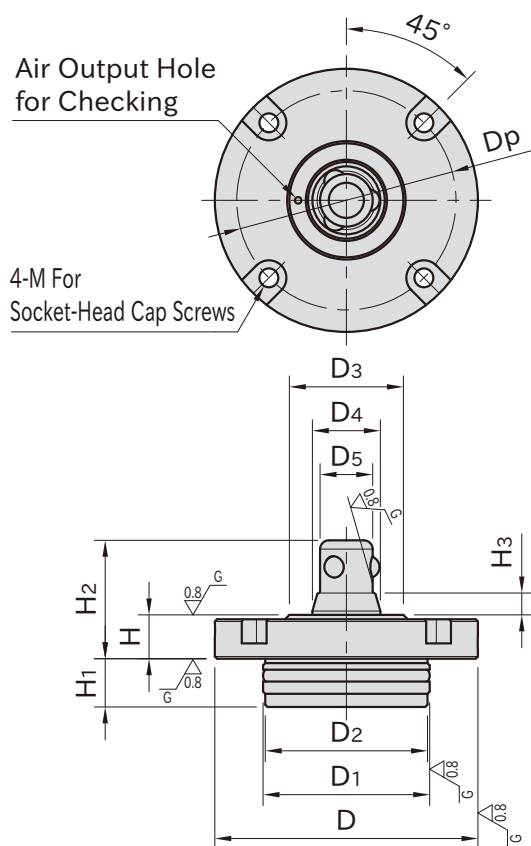


(Tapered Type)

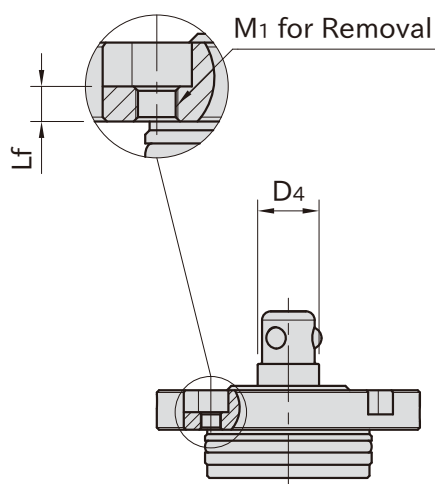


(Straight Type)

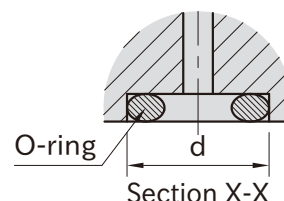
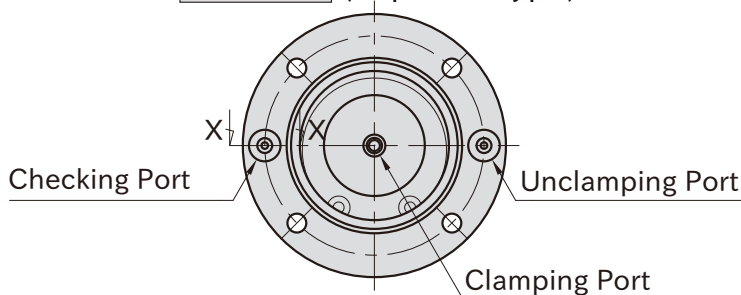
| Body | Cylinder | Ball |
|--|---|----------------------------|
| SCM440 steel Induction hardened Black oxide finished Precision ground | S45C steel Induction hardened Electroless nickel plated | SUS440C stainless steel |



AMWF-W-T (Tapered Type)



AMWF-W-S (Straight Type)



Reference

- How To Use PNEUMATIC FLEX LOCATORS
- How To Install PNEUMATIC FLEX LOCATORS

Note

- Use clean air by removing moisture and debris with an air dryer and air filter.
- Impurities in the compressed air can cause malfunction.

| Size | | D ₁ (g6) | D ₂ | H ₁ | D | D ₃ | H (±0.003) | M | H ₃ | D ₅ (^{-0.05} / _{-0.15}) | H ₂ | Lf | M ₁ | Dp |
|----------|----|------------------------|----------------|----------------|----|----------------|---------------|----|----------------|---|----------------|----|-----------------------------|----|
| AMWF-W-T | 40 | 48 | 47.5 | 15 | 70 | 38 | 12 | M5 | 8 | 16 | 35 | 5 | M6×1 (Drilled Hole φ5.2) | 60 |
| AMWF-W-S | 50 | 58 | 57.5 | 19 | 85 | 48 | 15 | M6 | 10 | 20 | 44 | 6 | M8×1.25 (Drilled Hole φ6.8) | 72 |

| Size | | d | Furnished O-ring | Operating Air Pressure(MPa) * | Clamping Force(kN) |
|----------|----|-----|---------------------|----------------------------------|-----------------------|
| AMWF-W-T | 40 | 7.2 | P4 | 0.5 | 4 |
| AMWF-W-S | 50 | 8.2 | P5 | | 6.3 |

Related Product

AMWF-BU PNEUMATIC FLEX LOCATOR BUSHINGS

*) At least 0.45 MPa is required for unclamping.
The maximum operating air pressure is 1 MPa.

AMWF-W-T (Tapered Type)

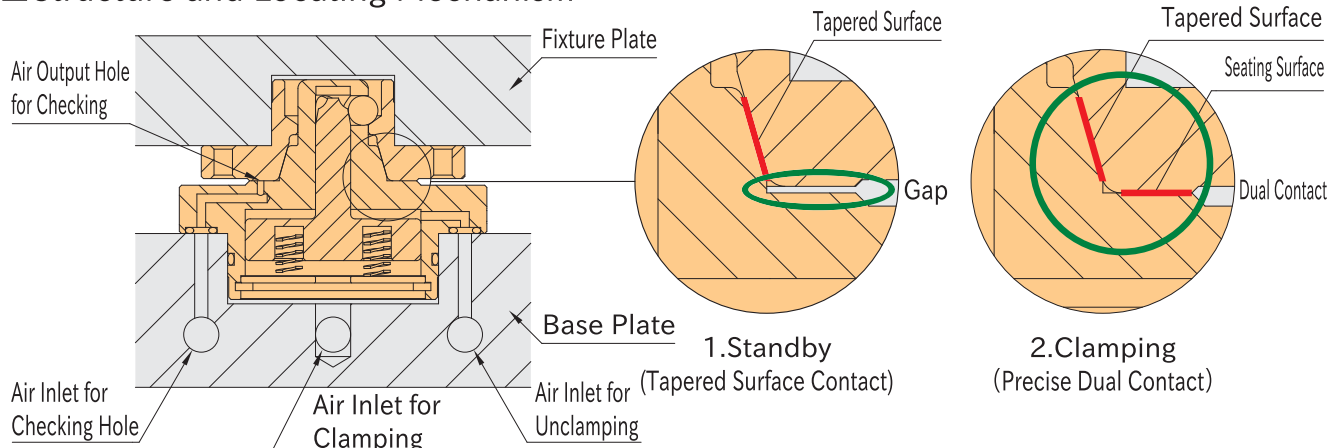
| Part Number | D ₄ | Weight (g) |
|-------------|----------------|---------------|
| AMWF40-W-T | 24.5 | 450 |
| AMWF50-W-T | 31.5 | 820 |

AMWF-W-S (Straight Type)

| Part Number | D ₄ | Weight (g) |
|-------------|----------------|---------------|
| AMWF40-W-S | 20 | 440 |
| AMWF50-W-S | 26 | 810 |

Feature

Structure and Locating Mechanism



• When the air pressure is lowered by an air leakage, the wedge mechanism and the spring prevent prompt lowering of the clamping force.

Clamping Force at 0 Mpa Air Pressure (Clamping Force of Spring)

• AMWF40Type...1.2kN

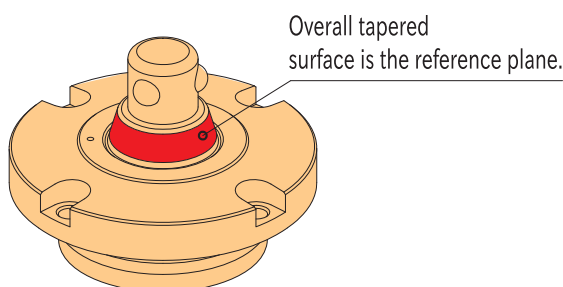
• AMWF50Type...1.8kN

• Can check if the fixture plate is clamped properly by applying air through the checking hole.

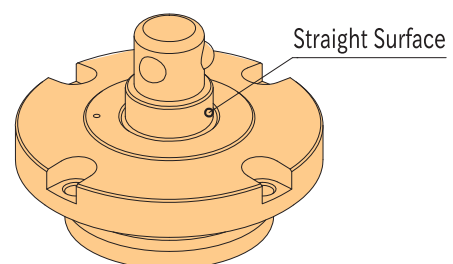
• Precise dual contact provides excellent locating repeatability at 3 μm.

Functions

Locating with Tapered Type



Clamping with Straight Type





(Tapered Type)

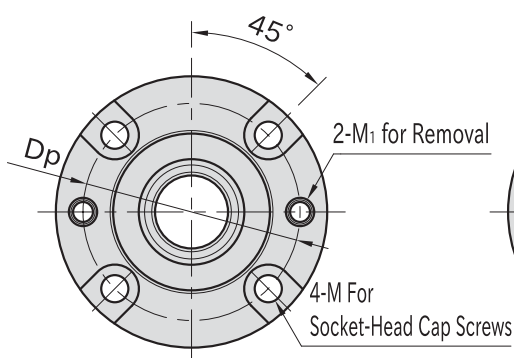
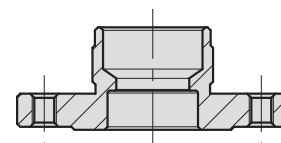
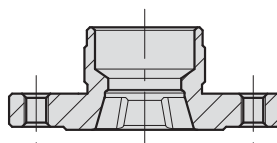
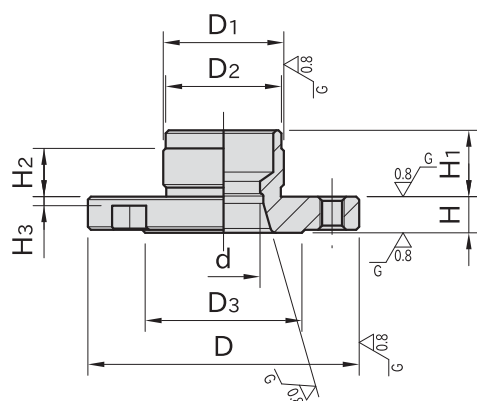


(Diamond Type)

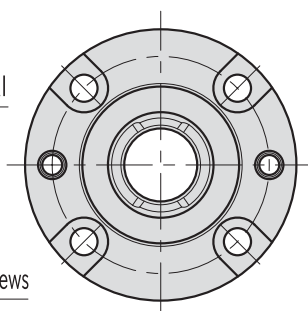


(Straight Type)

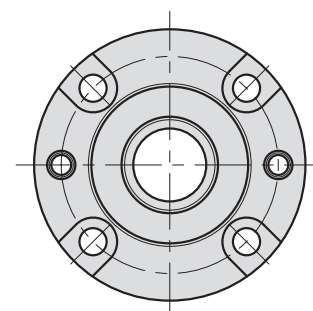
| Body |
|---------------------|
| SCM440 steel |
| Quenched & tempered |
| Black oxide finish |
| Precision ground |



AMWF-BU-T
(Tapered Type)



AMWF-BU-D
(Diamond Type)



AMWF-BU-S
(Straight Type)

| Size | | D ₁ (g6) | H ₂ | D ₂ | H ₁ | M | H ₃ | D | D ₃ | H (±0.003) | d (^{+0.15} / _{+0.05}) | M ₁ | D _p |
|------------------|-----------|------------------------|----------------|----------------|----------------|----|----------------|----|----------------|---------------|--|----------------|----------------|
| AMWF-BU-T | 40 | 28 | 10 | 27.5 | 15 | M5 | 2.5 | 60 | 38 | 8 | 16 | M5×0.8 | 50 |
| AMWF-BU-D | 50 | 36 | 14 | 35.5 | 19 | M6 | 3.5 | 75 | 48 | 10 | 20 | M6×1 | 62 |
| AMWF-BU-S | | | | | | | | | | | | | |

AMWF-BU-T (Tapered Type)

| Part Number | Weight (g) |
|--------------------|------------|
| AMWF40-BU-T | 160 |
| AMWF50-BU-T | 323 |

AMWF-BU-D (Diamond Type)

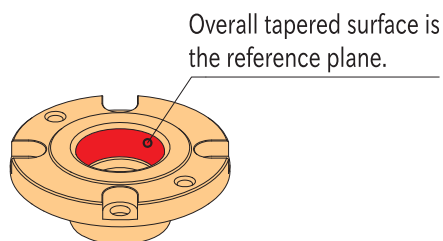
| Part Number | Weight (g) |
|--------------------|------------|
| AMWF40-BU-D | 159 |
| AMWF50-BU-D | 322 |

AMWF-BU-S (Straight Type)

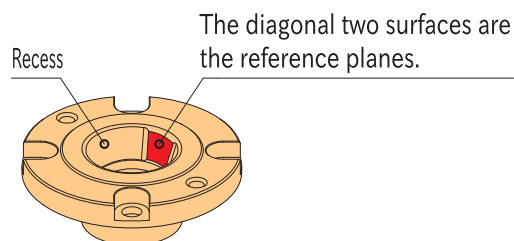
| Part Number | Weight (g) |
|--------------------|------------|
| AMWF40-BU-S | 163 |
| AMWF50-BU-S | 330 |

Feature**Function**

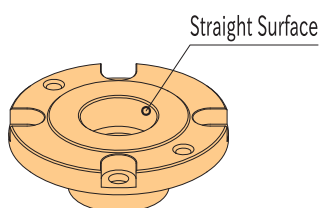
Locating with Tapered Type
For setting reference position



Locating with Diamond Type
For locating reference at rotational direction



Clamping with Straight Type

**Related Product**

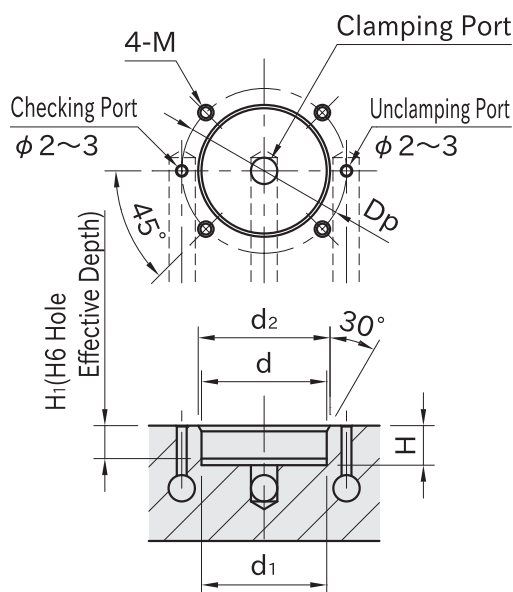
AMWF-W PNEUMATIC FLEX LOCATOR PINS

Reference

- How To Use PNEUMATIC FLEX LOCATORS
- How To Install PNEUMATIC FLEX LOCATORS

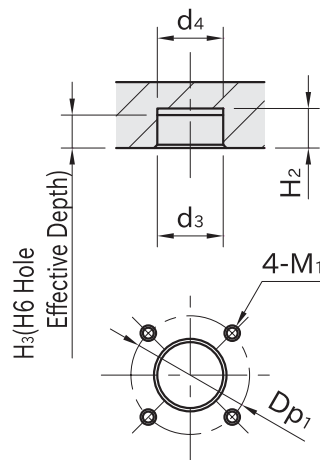
How To Install PNEUMATIC FLEX LOCATORS

■ Mounting Hole Dimensions for Pins



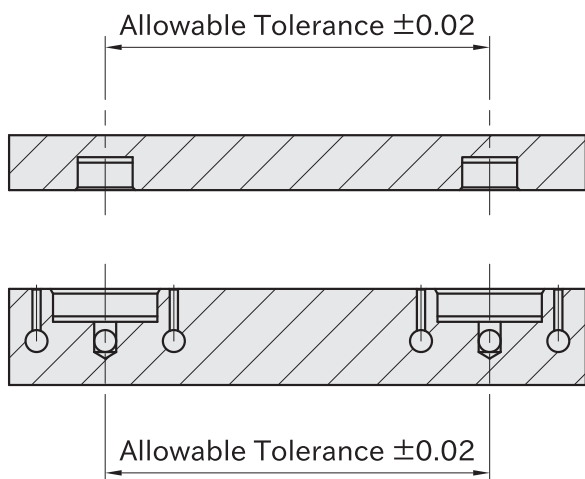
| Size | d (H6) | H ₁ | d ₁ (^{-0.1} / _{-0.3}) | H | d ₂ | M | D _p |
|----------|-----------|----------------|---|----|----------------|--------|----------------|
| AMWF40-W | 48 | 12 | 48 | 16 | 50 | M5×0.8 | 60 |
| AMWF50-W | 58 | 16 | 58 | 20 | 60 | M6×1 | 72 |

■ Mounting Hole Dimensions for Bushings



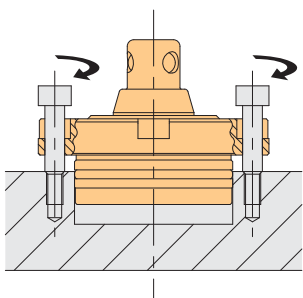
| Size | d ₃ (H6) | H ₃ | d ₄ (^{-0.1} / _{-0.3}) | H ₂ | M ₁ | D _{p1} |
|-----------|------------------------|----------------|---|----------------|----------------|-----------------|
| AMWF40-BU | 28 | 12 | 28 | 16 | M5×0.8 | 50 |
| AMWF50-BU | 36 | 16 | 36 | 20 | M6×1 | 62 |

■ Spacing Tolerance



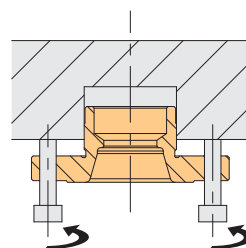
■ How to Remove Pins

For easier removal, insert screws into the tapped holes and screw them.



■ How to Remove Bushings

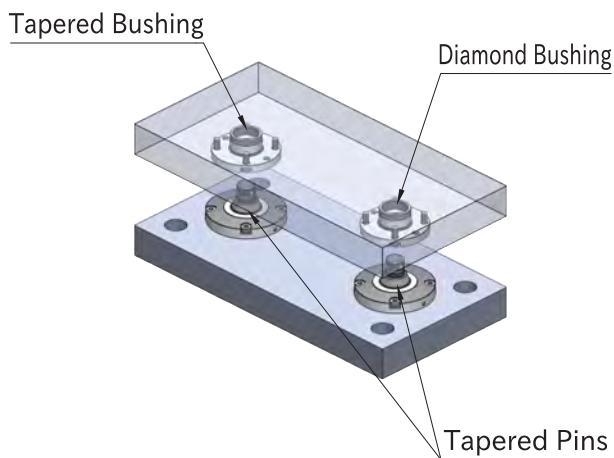
For easier removal, insert screws into the tapped holes and screw them.



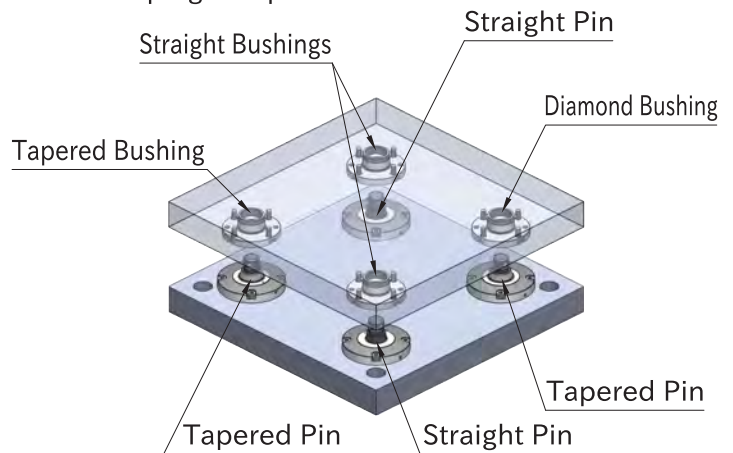
How To Use PNEUMATIC FLEX LOCATORS

Application Example

For clamping at 2 points



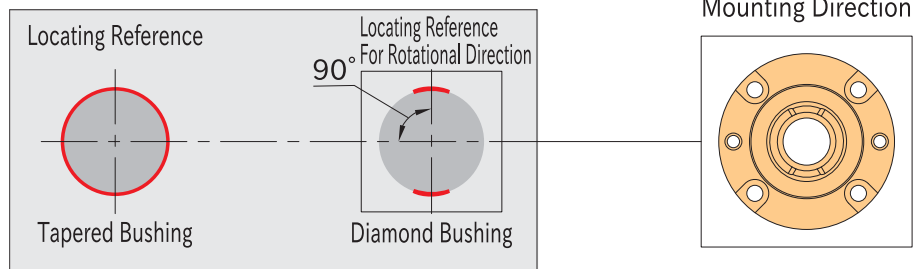
For clamping at 4 points



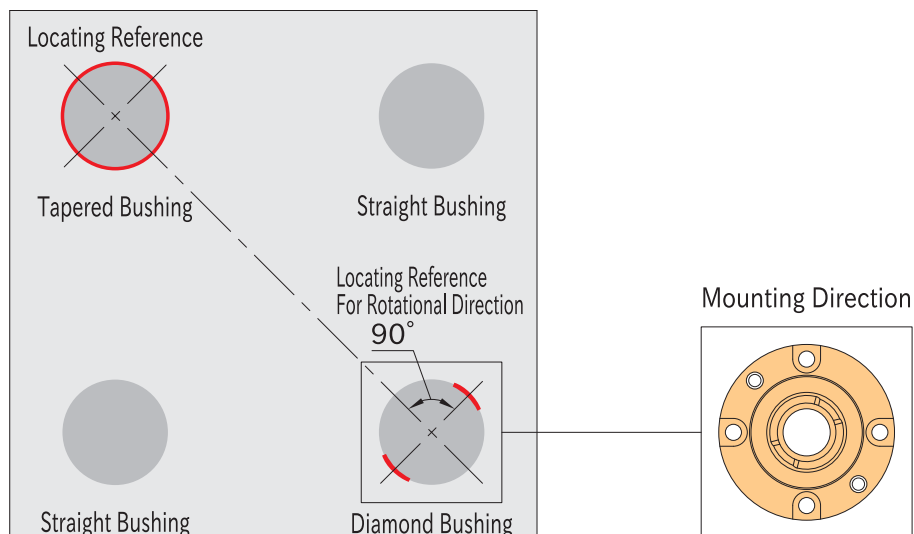
Positioning Order of Bushings

Mount the Tapered Bushings and Diamond Bushings as in the figure below for locating fixture plates. Pay attention to the mounting direction of the Diamond Bushings, since the direction for use at 2 points and the direction for use at 4 points differ.

For clamping at 2 points



For clamping at 4 points





33792 Doreka Dr. Fraser, MI 48026

586-294-1188

cs@fixtureworks.com