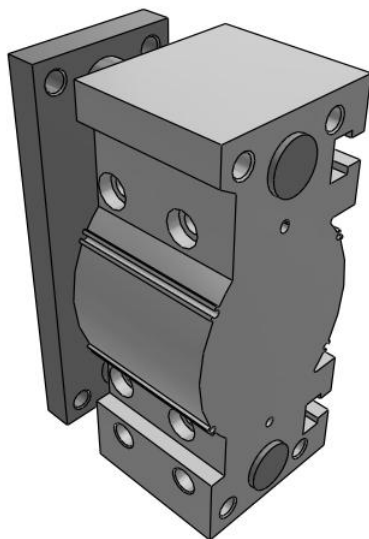




## MGP-Z, Compact Guide Cylinder MGPA100TF-25Z

### Datasheet

- 3 types of bearing can be selected: slide bearing, ball bushing and high precision ball bushing.
- Compactness & Lightness
- Bore size: 12, 16, 20, 25, 32, 40, 50, 63, 80, 100 (mm)
- Strokes from 10 to 400mm (depending upon bore size)
- 4 types of mounting are possible: top mounting, side mounting, bottom mounting and T-slot side mounting.
- Auto switches can be mounted on 2 surfaces.



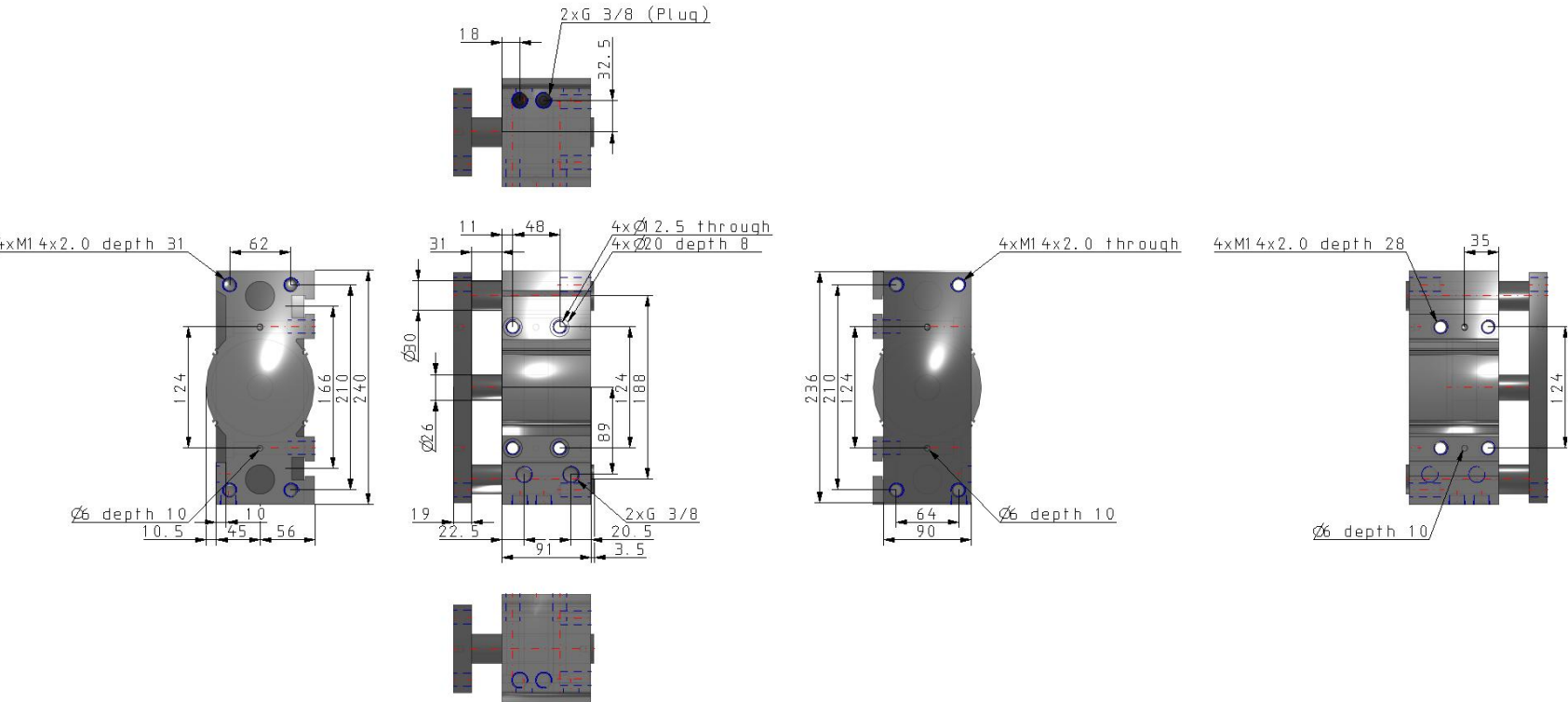
Double-acting, single-rod cylinder

### Standard specifications

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Bearing Type                         | A (High precision ball bushing bearing) |
| Bore Size                            | Ø100 mm                                 |
| Port Thread Type                     | TF [G]                                  |
| Lube-retainer                        | Without Stable Lubrication Function     |
| Stroke                               | 25                                      |
| Auto Switch                          | No Switch                               |
| Lead Wire Length                     | 0.5m [Or None in the Case of No Switch] |
| Number of Auto Switches              | 2 pcs. [Or None in Case of No Switch]   |
| Change of Guide Rod End Shape        | None                                    |
| Temperature Resistance               | None                                    |
| Low Speed                            | None                                    |
| Fluororubber Seal                    | None                                    |
| Grease for Food Processing Equipment | None                                    |
| -                                    | Compressed air; Compressed air          |
| Maximum operating pressure           | 1.0 MPa                                 |
| Minimum operating pressure           | 0.1 MPa                                 |
| Proof pressure                       | 1.5 MPa                                 |
| Pneumatic input connection           | G 3/8                                   |

|                                                         |                            |
|---------------------------------------------------------|----------------------------|
| Pneumatic exhaust connection                            | G 3/8                      |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 3927 N                     |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 3662 N                     |
| Maximum piston speed                                    | 400 mm/s                   |
| Type of cushioning                                      | Rubber bumper on both ends |
| Non-rotating accuracy of plate                          | $\pm 0.01^\circ$           |
| Weight                                                  | 8.620 Kg                   |

Dimensions



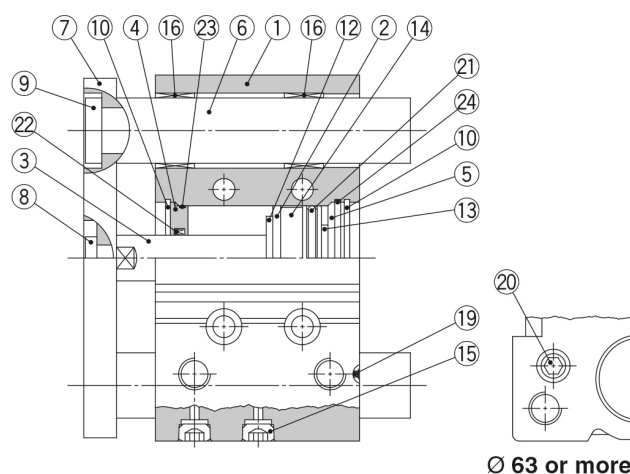
Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

## Constructions

### MGPM12 to 25



### MGPM32 to 100



#### Component Parts

| No. | Description              | Material          | Note                                          |
|-----|--------------------------|-------------------|-----------------------------------------------|
| 1   | Body                     | Aluminium alloy   | Hard anodised                                 |
| 2   | Piston                   | Aluminium alloy   |                                               |
| 3   | Piston rod               | Stainless steel   | Ø 12 to Ø 25                                  |
|     |                          | Carbon steel      | Ø 32 to Ø 100 Hard chrome plating             |
| 4   | Collar                   | Aluminium alloy   | Chromated                                     |
| 5   | Head cover               | Aluminium alloy   | Ø 12 to Ø 63 Chromated<br>Ø 80, Ø 100 Painted |
| 6   | Guide rod                | Carbon steel      | Hard chrome plating                           |
| 7   | Plate                    | Carbon steel      | Nickel plating                                |
| 8   | Plate mounting bolt      | Carbon steel      | Nickel plating                                |
| 9   | Guide bolt               | Carbon steel      | Nickel plating                                |
| 10  | Retaining ring           | Carbon tool steel | Phosphate coated                              |
| 11  | Retaining ring           | Carbon tool steel | Phosphate coated                              |
| 12  | Bumper A                 | Urethane          |                                               |
| 13  | Bumper B                 | Urethane          |                                               |
| 14  | Magnet                   | —                 |                                               |
| 15  | Plug                     | Carbon steel      | Ø 12, Ø 16<br>Ø 20 to Ø 100 Nickel plating    |
|     | Hexagon socket head plug |                   |                                               |
| 16  | Slide bearing            | Bearing alloy     |                                               |

\*: A felt is not installed on the slide bearing.

#### Component Parts

| No. | Description  | Material        | Note                         |
|-----|--------------|-----------------|------------------------------|
| 17  | Ball bushing |                 |                              |
| 18  | Spacer       | Aluminium alloy |                              |
| 19  | Steel ball   | Carbon steel    | Ø 12 to Ø 50                 |
| 20  | Plug         | Carbon steel    | Ø 63 to Ø 100 Nickel plating |
| 21* | Piston seal  | NBR             |                              |
| 22* | Rod seal     | NBR             |                              |
| 23* | Gasket A     | NBR             |                              |
| 24* | Gasket B     | NBR             |                              |

#### Replacement Parts/Seal Kit

| Bore size [mm] | Kit no.    | Contents       | Bore size [mm] | Kit no.     | Contents       |
|----------------|------------|----------------|----------------|-------------|----------------|
| 12             | MGP12-Z-PS | Set of nos.    | 40             | MGP40-Z-PS  | Set of nos.    |
| 16             | MGP16-Z-PS | above          | 50             | MGP50-Z-PS  | above          |
| 20             | MGP20-Z-PS | 21, 22, 23, 24 | 63             | MGP63-Z-PS  | 21, 22, 23, 24 |
| 25             | MGP25-Z-PS |                | 80             | MGP80-Z-PS  |                |
| 32             | MGP32-Z-PS |                | 100            | MGP100-Z-PS |                |

\*: Seal kit includes 21 to 24. Order the seal kit, based on each bore size.

\*: Since the seal kit does not include a grease pack, order it separately.

Grease pack part number: GR-S-010 (10 g)

## Additional information

Catalogue

[MGP-Z-Dd\\_EU.pdf](#)

Operation manuals

[OM\\_MGP-Z\\_MGPx-OM0047PEN-B.pdf](#)