

Cleanroom Gripping Solution

Gimatic electric grippers can operate in environments characterised by a high standard of cleanliness and hygiene by integrating the KIT-GMP-G. An adapter enables fastening the electric gripper to a robot interface (not included) and protecting its operation by means of a sterilisable silicone cover. The gripping fingers (not included) can be fastened by means of special hygienic stainless steel screws. The system meets the most stringent GMP (Good Manufacturing Practice) cleanliness standards for Grade A and B.

Its main characteristics are:

- Suitable for gripper MPPM1606.
- Compliant with GMP Grade A and B cleanliness standards
- Cover made in Silicone Silpuran® Wacker FDA 21 CFR §177.2600.
- Compatible with hydrogen peroxide (VHP-H2O2) and UV cleaning procedures.
- Complete system with IP65 protection rating.
- The MPPM1606-KIT-GMP kit is certified to ISO14644-1 for ISO 2 cleanrooms, while the single gripper MPPM1606 is certified to ISO14644-1 for ISO 4 cleanrooms. Stainless steel hygienic screws (Novonox).
- Transparent surface that enables reading the LEDs of the internal sensors and the power supply status LEDs.
- Hygienic design surfaces preventing the build-up of bacteria.
- Easy fastening of gripping fingers with anti-rotation system.

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**MPPM1606-KIT-GMP
AIR CLEANING CLASS 2**



**MPPM1606
AIR CLEANING CLASS 4**



**IP65
ENVIRONMENT DEGREE**

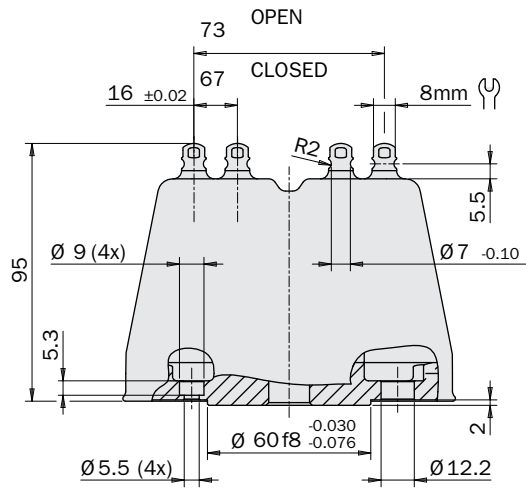
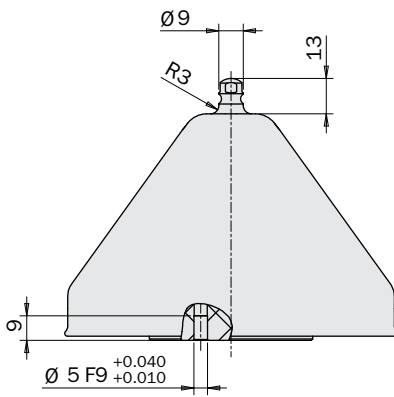
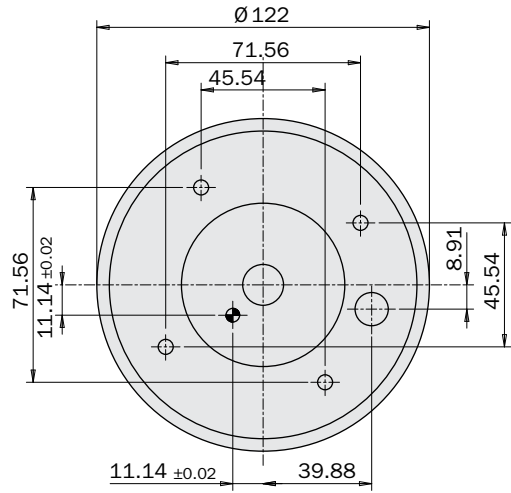
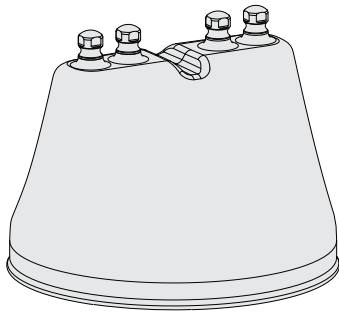
**H₂O₂
CLEANING PROCEDURE**

EMC / CE

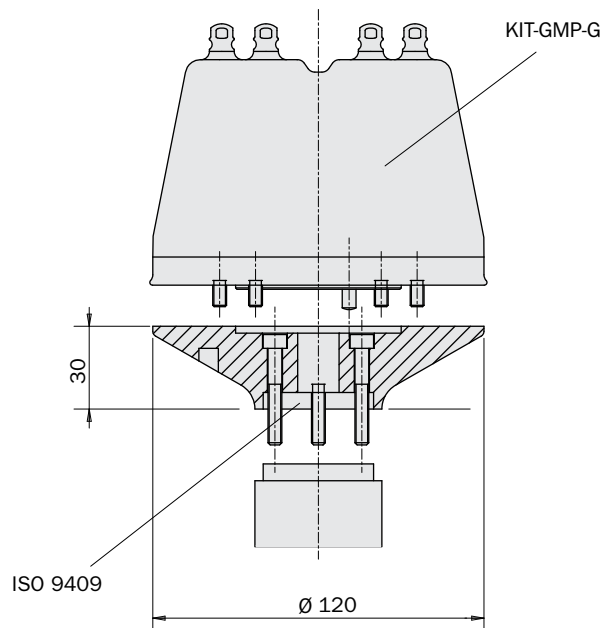
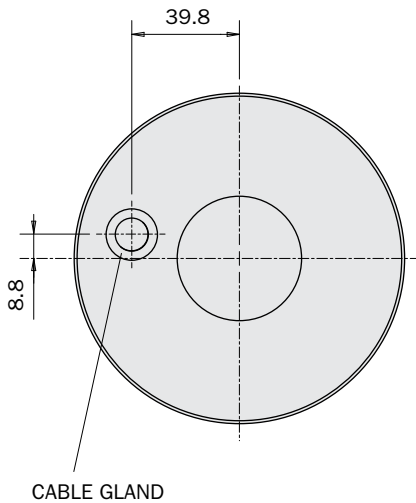


Dimensions (mm)

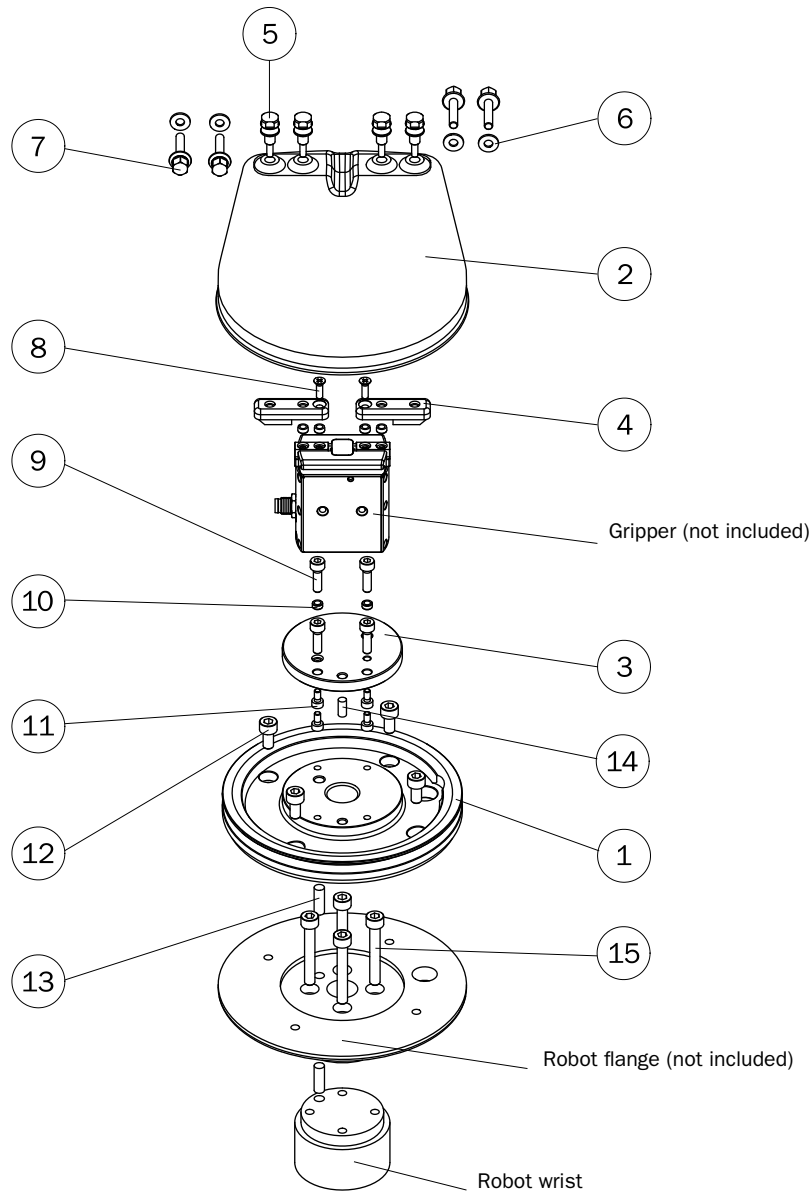
FIRST ANGLE PROJECTION



Application example



Part list

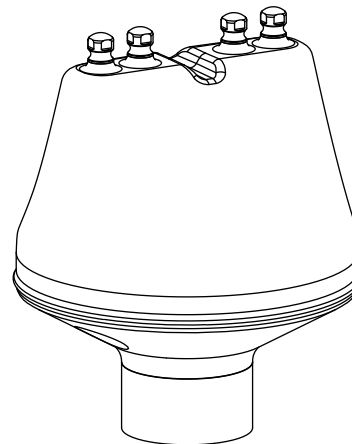
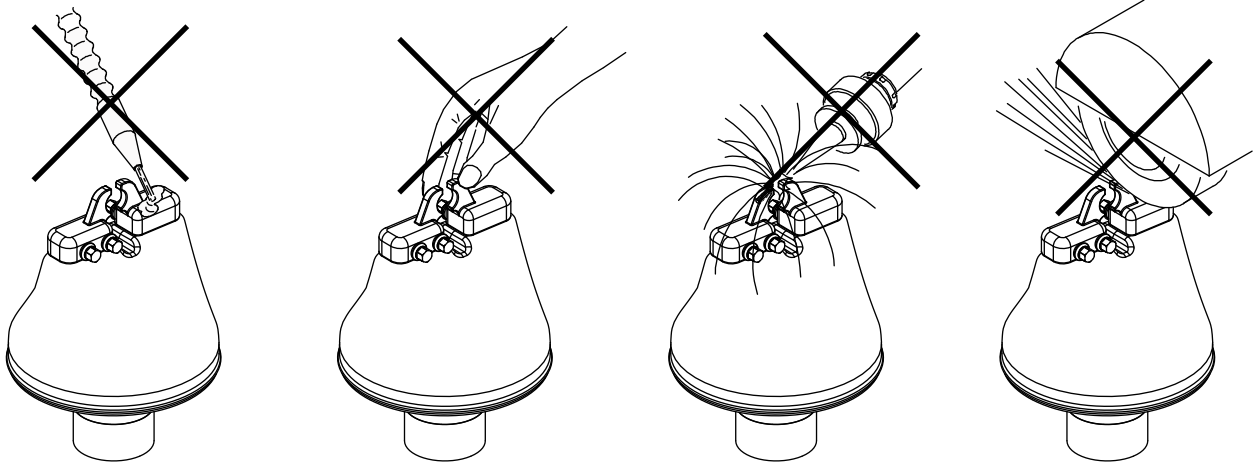


Included parts

| Part No. | Description | Quantity | Weight | Part No. |
|----------|---|----------|-----------|----------|
| 1 | Robot interface | 1 | 1 x 142 g | 1 |
| 2 | Cover | 1 | 1 x 86 g | 2 |
| 3 | Gripper interface | 1 | 1 x 41 g | 3 |
| 4 | Internal jaws | 2 | 2 x 6.2 g | 4 |
| 5 | Pin | 4 | 4 x 5.3 g | 5 |
| 6 | Hygienic sealing 4.1 x 9.7 (Novonox) | 4 | 4 x 0.1 g | 6 |
| 7 | Hex head screw polished M4 x 20 (Novonox) | 4 | 4 x 5.0 g | 7 |
| 8 | Cross recessed flat countersunk head M3x10 A4 | 2 | 2 x 0.5 g | 8 |
| 9 | Hex socket head cap screw M4x14 A4 | 4 | 4 x 1.8 g | 9 |
| 10 | Centering Sleeve Ø5x3.2x2.4 | 6 | 6 x 0.3 g | 10 |
| 11 | Hex socket head cap screw M3x6 A4 | 4 | 4 x 0.8 g | 11 |
| 12 | Hex socket head cap screw M5x10 A4 | 4 | 4 x 2.9 g | 12 |
| 13 | Dowel pin Ø5x16 (m6) | 1 | 2 x 1.7 g | 13 |
| 14 | Dowel pin Ø4x10 (m6) | 1 | 1 x 1.5 g | 14 |
| 15 | Hex socket head cap screw M5x35 A4 | 4 | 4 x 6.2 g | 15 |

Caution

- Do not place the product in place where it may come in contact with foreign matter such as oil nor in an atmosphere of corrosive gas or flammable gases nor in place near inflammable material.
- Do not install the product near heating element.
- Do not perform wiring nor operate the product with wet hand.
- Do not transfer the product by holding only the cable.
- Do not attempt to force gripper jaws' movement by hand.



CE Marking reference

The system is in conformance with:

Directive 2004/108/CE, EN 62233 (2008-04), EN 61000-6-2+EC+IS1 (2005-08; 2005-09; 2005-11), EN 61000-6-3+A1 (2007-01; 2011-03), EN 61000-6-4 (2007-01), EN 55016-2-1+A1 (2004-10; 2005-08), EN 55016-2-3 (2006-12), EN 61000-4-2 (2009-03), EN 61000-4-3+A1+IS1+A2 (2006-05; 2008-02; 2009-02; 2010-07), EN 61000-4-4+A1 (2004-12; 2010-03), EN 61000-4-5 (2006-11), EN 61000-4-6+A1+IS1 (1996-07; 2001-12; 2004-07), EN 61000-4-6 (2009-03), CEI EN 60529 (1997-06).

IPA Certification reference

The system has been declared suitable for use in hygienic areas by Fraunhofer IPA Institute as stated in report No. GI 1410-728