QC-1 is automatic end-effector exchange device for light load robot for various applications like a assembling of precise electric device, precise machine and handling purpose in medical product, food product.

QC-1 is compatible for use on FANUC's "Genkotsu Robot"

The flange interface on FANUC's Genkotsu Robot 1M-1iA is PCD20 (4-axis and 6-axis spacs), so QC-1can be used on new or existing applications.

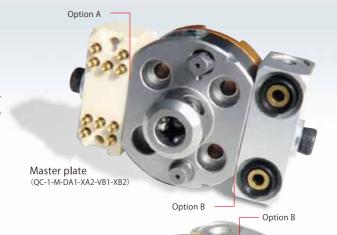
Lock without touching

Allowable temperature and humidity ranges

The Master plate can lock onto the Tool plate with a gap between them.

Superior fail-safe locking mechanism

BL's unique lock/unlock mechanism contains a mechanical fail-safe feature which does not allow the Master and Tool plates to uncouple if the air pressure is shut off.



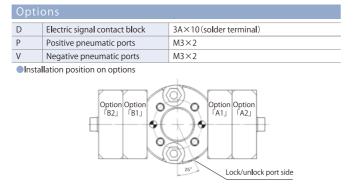






Master plate Attachments •4 bolts (M3×15) 1 locating pin (MSY3-8)

Load capacity 9.8N (1kg) Positional repeatability %1 ±0.015mm 4N·m (40.8kgf·cm) Bending direction (Tx, Tv) Allowable dynamic moment Twisting direction (Tz) 16.6N·m (169.4kgf·cm) Coupling force (with air pressure of 0.49MPa) %2 185N Frame Lock/ unlock mechanism Stainless steel Overall dimension (when coupled) φ32xH29mm Master plate (Main body) Tool plate Self-separating mechanism Ball-locking mechanism Required air pressure

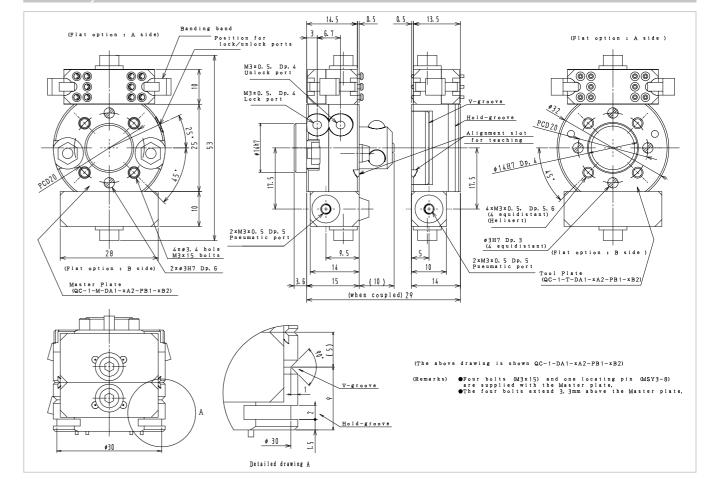


Master plate **QC-1** -**M**- A1 - A2 - B1 - B2

0~50°C、35~90% (Non-condensing)

Electrical signals3A×10 (solder terminal) Positive pneumatic ports **3 Negative pneumatic ports

(Note) Four options may be installed on the QC-1 (the A2 and B2 options available only if the A1 and B1 options are used).



■Electrical signal contact bloc



3A×10 (solder terminal)

■Pneumatic pressure ports contact bloc



**1 Positional repeatability means the accuracy of position between the one master plate and the one tool plate(A) repeat coupled and uncoupled. t is not possible to apply this positional repeatability to different tool plate(B). *2 Coupling force is the force to achieve specified repeatability. Coupling will be maintained until unlock pressure is applied or device is damaged. **3 If you request to add 2 pneumatic port block"P", please contact and discuss with BL Autotec before placing order.

ZEUS GIGA

5kg 10kg 20kg 40kg 60kg 70kg 100kg

150kg 220kg 300kg

100kg

Wire-Saving module / Contact Block Non-contact electric signal block A mechanical safety value presents Tool plate drops