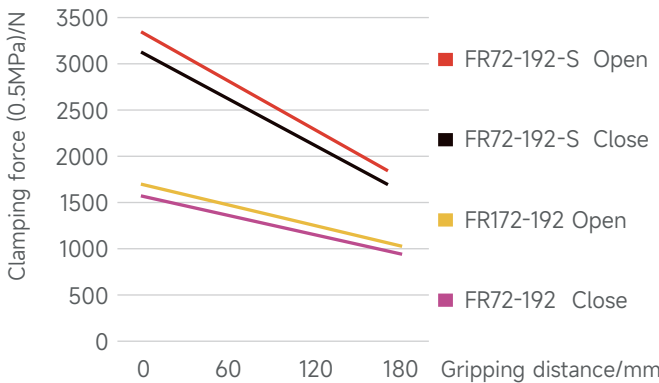
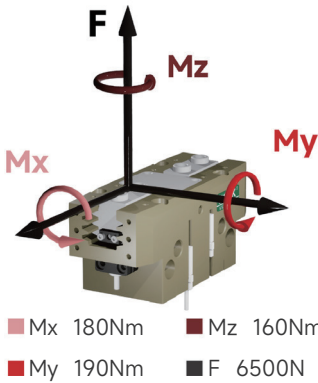


Toothed parallel gripper series FOUK-FR

FR72-192

Static load-bearing torque

Gripping force curve



FR 72 - 192 - S - B - P - NO - H

| Serial No.                  | Cylinder bore | Shell length | Short stroke                                       | Ventilation at bottom     | Dust cover IP64      | Self-locking form                                                                  | High temperature resistance |
|-----------------------------|---------------|--------------|----------------------------------------------------|---------------------------|----------------------|------------------------------------------------------------------------------------|-----------------------------|
| FR Toothed parallel gripper |               |              | S Increased gripping force<br>/ Standard version M | / Ventilation on the side | / Without dust cover | NO Self-locking by opening<br>NC Self-locking by closing<br>/ Without self-locking | H -5~240°C<br>/ 0~60°C      |

Inductive proximity sensor

|                  |                          |
|------------------|--------------------------|
| IPSD-2NS-0823-L3 | Inductive, NPN, 3-core3m |
| IPSD-2PS-0823-L3 | Inductive, PNP, 3-core3m |

Magnetic proximity sensor

|                |                         |
|----------------|-------------------------|
| MZC2-1V7NS-FU0 | Magnetic, NPN, 3-core3m |
| MZC2-1V7PS-FU0 | Magnetic, PNP, 3-core3m |

\*Two sensors are required for each gripper. For the detailed monitoring of two positions, see the sensor appendix.

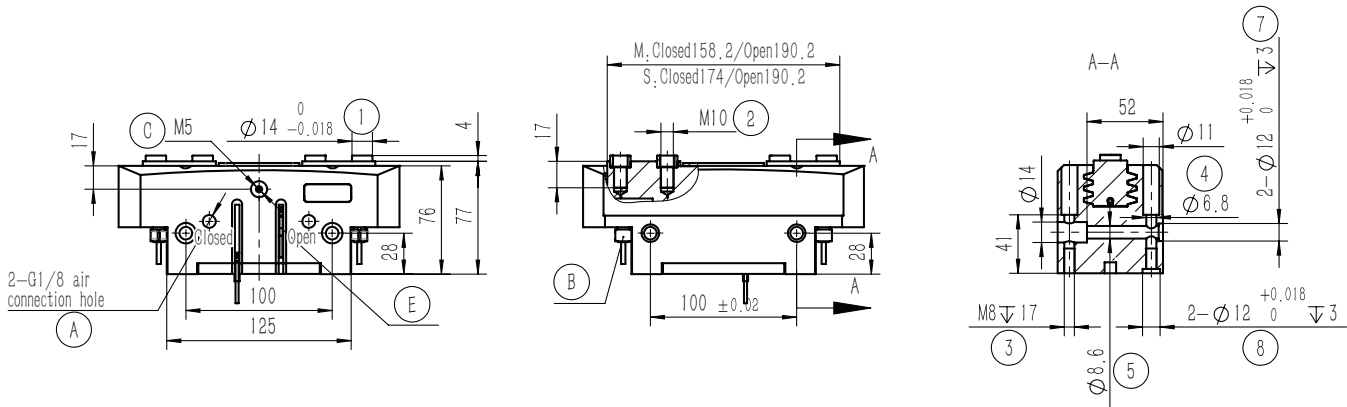
| Product attributes                                  | FR72-192  | FR72-192-NO | FR72-192-NC | FR72-192-S | FR72-192-S-NO | FR72-192-S-NC | Unit |
|-----------------------------------------------------|-----------|-------------|-------------|------------|---------------|---------------|------|
| Single stroke                                       | 16        | 16          | 16          | 8          | 8             | 8             | mm   |
| Product weight                                      | 2.75      | 3.45        | 3.5         | 2.8        | 3.5           | 3.55          | kg   |
| Maximum allowable gripping distance                 | 180       | 180         | 180         | 170        | 170           | 170           | mm   |
| Theoretical maximum gripping force: opening/closing | 340P/316P | 340P/-      | -/316P      | 670P/624P  | 670P/-        | -/624P        | N    |
| Minimum Spring Locking Force                        |           | 720         | 720         |            | 1400          | 1400          | N    |
| Workpiece weight                                    | 10        | 10          | 10          | 20         | 20            | 20            | kg   |
| Opening/closing time                                | 0.1/0.1   | 0.1/0.2     | 0.2/0.1     | 0.1/0.1    | 0.1/0.2       | 0.2/0.1       | s    |
| Gas consumption of single opening and closing cycle | 0.95      | 1.7         | 1.55        | 0.95       | 1.7           | 1.55          | L    |

P: Compressed air pressure [bar]

Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

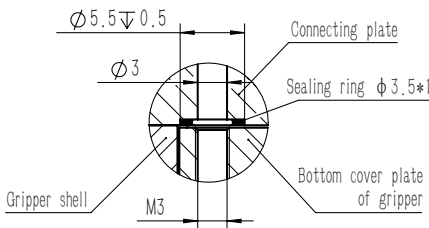
|                                  |        |                                                    |       |
|----------------------------------|--------|----------------------------------------------------|-------|
| Repeated gripping accuracy/mm    | ± 0.03 | Specification of air connection port               | G1/8  |
| Operating air pressure range/bar | 3~8    | Temperature range of application/°C                | -5~60 |
| IP rating                        | 40     | Maximum allowable single-finger gripping weight/kg | 3.6   |

FR72-192-M/S



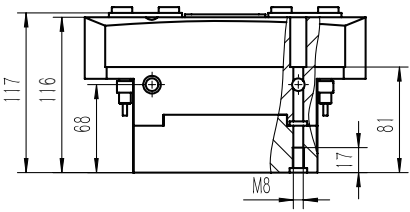
- ① Gripping finger location pin bushing (standard)
- ② Mounting hole of gripping finger
- ③ ④ ⑤ Gripper mounting hole
- ⑥ ⑦ ⑧ Gripper mounting and positioning pin hole
- A Compressed air connection port
- B Location of inductive proximity sensor
- C Positive-pressure air blowing hole/grease injection hole
- D Bottom ventilation hole (version-B)
- E Location of magnetic proximity sensor

FR72-192-B Ventilation at bottom



FR72-192-NC/NO Self-locking

Built-in spring, mechanical self-locking



FR72-192-P Dust-proof

Dust-proof module, IP64 for the positive-pressure air blowing hole after it, is connected to the compressed air of 0.05-0.10MPa, otherwise, IP50

