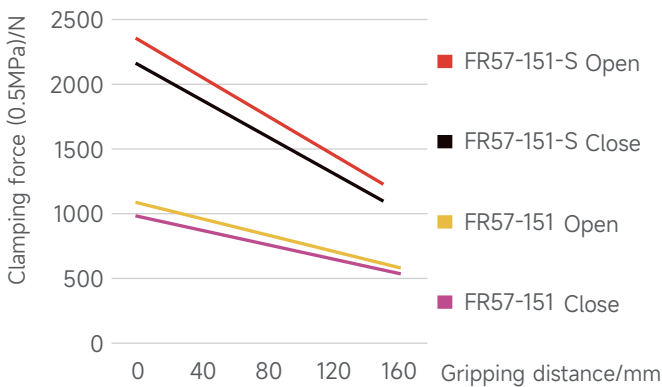
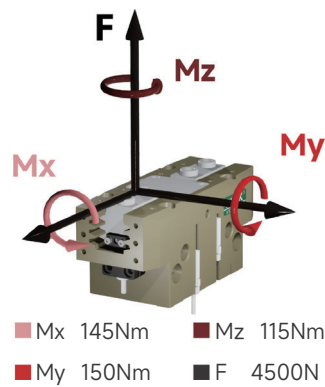


Toothed parallel gripper series FOUK-FR

FR57-151

Static load-bearing torque

Gripping force curve



FR 57 - 151 - 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 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.

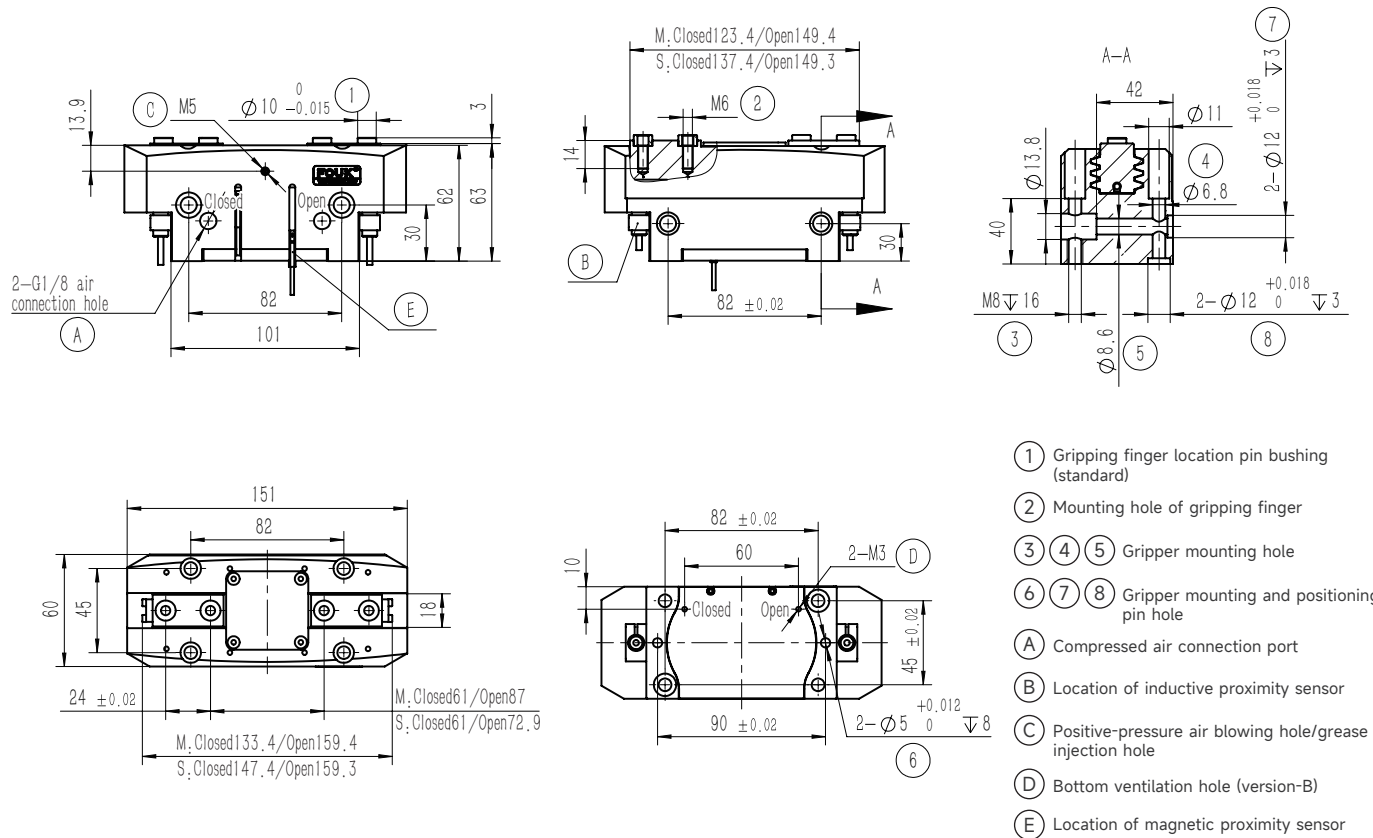
| Product attributes                                  | FR57-151  | FR57-151-NO | FR57-151-NC | FR57-151-S | FR57-151-S-NO | FR57-151-S-NC | Unit |
|-----------------------------------------------------|-----------|-------------|-------------|------------|---------------|---------------|------|
| Single stroke                                       | 13        | 13          | 13          | 6          | 6             | 6             | mm   |
| Product weight                                      | 1.45      | 1.8         | 1.85        | 1.5        | 1.85          | 1.9           | kg   |
| Maximum allowable gripping distance                 | 160       | 160         | 160         | 150        | 150           | 150           | mm   |
| Theoretical maximum gripping force: opening/closing | 214P/198P | 214P/-      | -/198P      | 466P/430P  | 466P/-        | -/430P        | N    |
| Minimum Spring Locking Force                        |           | 450         | 450         |            | 980           | 980           | N    |
| Workpiece weight                                    | 6.5       | 6.5         | 6.5         | 14         | 14            | 14            | kg   |
| Opening/closing time                                | 0.09/0.09 | 0.08/0.12   | 0.12/0.08   | 0.09/0.09  | 0.08/0.12     | 0.12/0.08     | s    |
| Gas consumption of single opening and closing cycle | 0.5       | 0.85        | 0.8         | 0.5        | 0.85          | 0.8           | L    |

P: Compressed air pressure [bar]

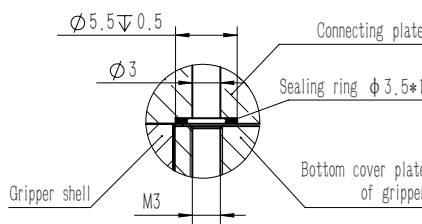
Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

|                                  |        |                                                    |       |
|----------------------------------|--------|----------------------------------------------------|-------|
| Repeated gripping accuracy/mm    | ± 0.02 | 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 | 2.2   |

FR57-151-M/S

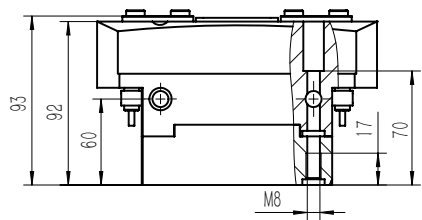


FR57-151-B Ventilation at bottom



FR57-151-NC/NO Self-locking

Built-in spring, mechanical self-locking



FR57-151-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

