

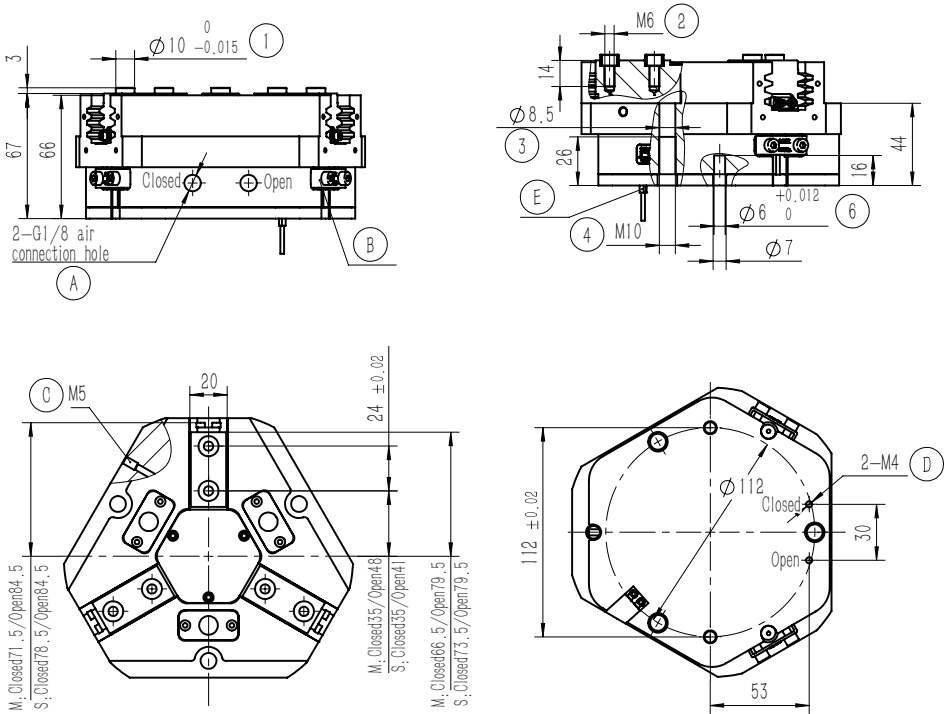
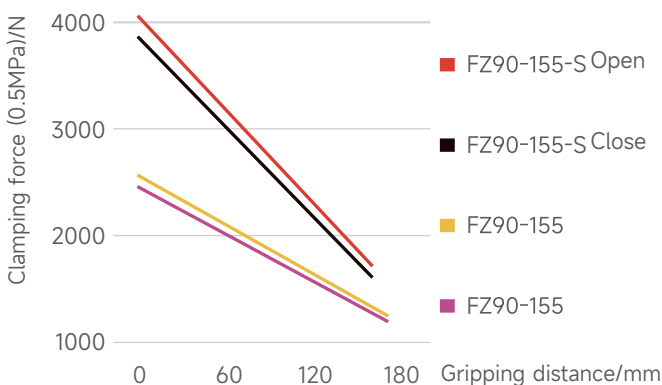
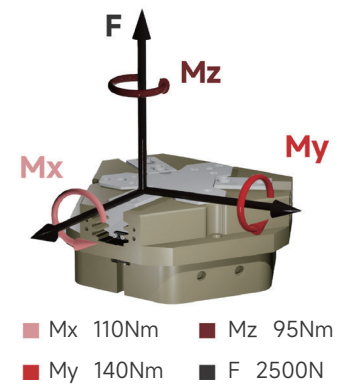
Toothed three-finger gripper series FOUK-FZ

FZ90-155-M/S

FZ90-155

Static load-bearing torque

Gripping force curve



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

FZ 90 - 155 - S - B - C30 - P - NO - H

Serial No.	Cylinder bore	Maximum shell diameter	Short stroke	Ventilation at bottom	Length of push rod	Dust cover IP64	Self-locking form	High temperature resistance
FZ Toothed three-finger gripper			S Increased gripping force Standard version M	/ Ventilation on the side	C30 30mm C45 45mm / Without push plate	/ Without dust cover	NO Self-locking by opening NC Self-locking by closing / Without self-locking	H ~5~240°C / 0~60°C

Inductive proximity sensor

IPSD-2NS-0831-L3	Inductive, NPN, 3-core3m
IPSD-2PS-0831-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	FZ90-155	FZ90-155-NO	FZ90-155-NC	FZ90-155-S	FZ90-155-S-NO	FZ90-155-S-NC	Unit
Single stroke	13	13	13	6	6	6	mm
Product weight	2.7	3.2	3.4	2.8	3.3	3.5	kg
Maximum allowable gripping distance	170	170	170	160	160	160	mm
Theoretical maximum gripping force: opening/closing	515P/490P	515P/-	-/490P	810P/770P	810P/-	-/770P	N
Gas consumption of single opening and closing cycle	1.1	1.6	1.6	1.1	1.6	1.6	L
Minimum Spring Locking Force		920	920		1850	1850	N
Workpiece weight	15.5	15.5	15.5	28	28	28	kg
Opening/closing time	0.2/0.2	0.2/0.35	0.35/0.2	0.2/0.2	0.2/0.35	0.35/0.2	s

P: Compressed air pressure [bar]

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

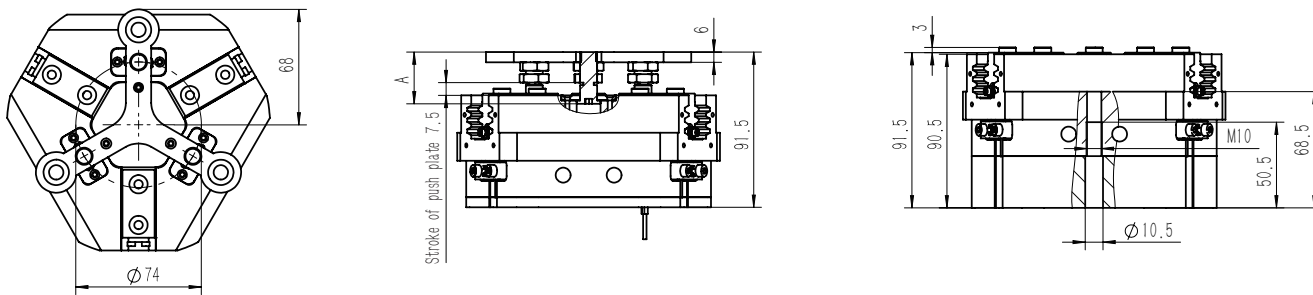
Maximum allowable single-finger gripping weight/kg	2	Specification of air connection port	G1/8
Repeated gripping accuracy/mm	± 0.02	Temperature range of application/°C	-5~60
Operating air pressure range/bar	3~8	IP rating	40

FZ90-155-C30 Pushing

The length A of the push rod can be of the standard version or the extended version, with loading function, and the minimum thrust of the push plate is 105N.

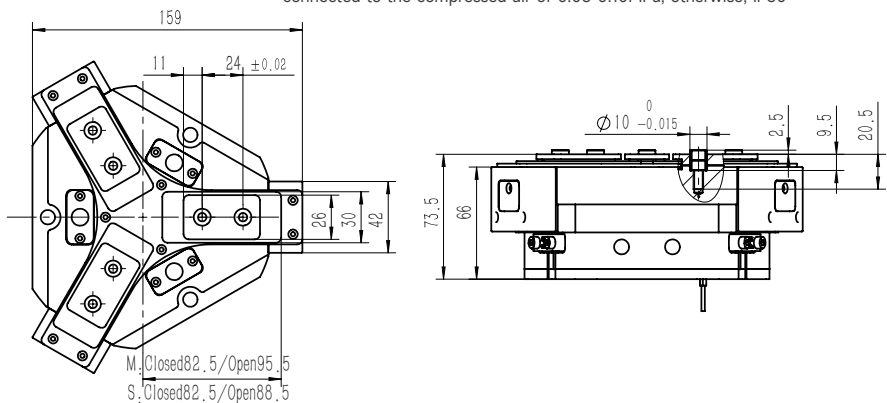
FZ90-155-NC/NO Self-locking

Built-in spring, mechanical self-locking



FZ90-155-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



FZ90-155-B Ventilation at bottom

