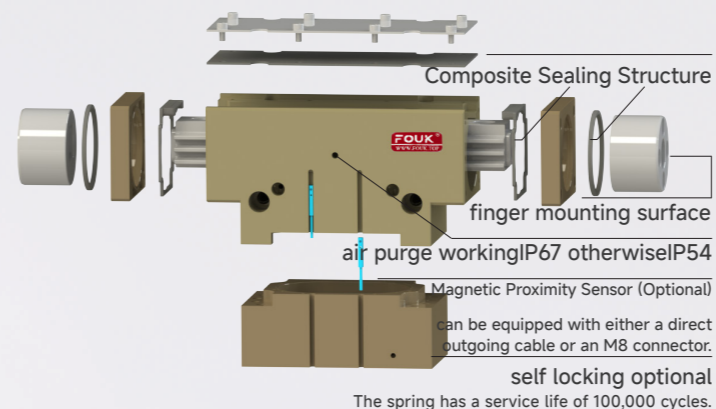


**sealed gripper**



**IP67 class protection**

This gripper series is more suitable for use in high pollution working conditions.



**Composite Sealing Structure**

Multiple materials are used for composite sealing, ensuring stable performance output under harsh working conditions.

**Multi-Tooth Guide Rail Structure Design**

Drawing on the chuck structure, the three-tooth guide rail has higher load-bearing capacity and longer service life compared with the traditional T-slot rail.

**Wedge Transmission Method**

Benefiting from the excellent transmission structure, it features both high load capacity and high centering accuracy.



stroke per jaw  
6/13/16/30/6/8mm



work piece  
1-18.9kg



product weight  
0.4-12kg



models  
数量: 6

**TRF/TZF sealed two/ three fingers serials**

FOUK-IP67 high protection

IP67 High-Protection Gripper features a composite sealing structure, offering the highest dust protection level and enabling short-term immersion in water. The toothed rail ensures strong load-bearing capacity.



IP67 serial products instructional video

Name	Stroke per jaw/mm	Weight/kg	air purge allowable pressure/bar	workpiece weight/kg	Page
TRF28	6	0.4	0.2-0.5	1	90
TRF57	13	2.1	0.2-0.5	5	92
TRF72	16	3.7	0.2-0.5	7.8	94
TRF117	30	12	0.2-0.5	18.9	96
TZF42	6	0.7	0.2-0.5	2.6	98
TZF55	8	1	0.2-0.5	4.5	100

P: Compressed air pressure [bar]  
 Gas consumption: volume of gas consumed at normal pressure(0.5MPa)

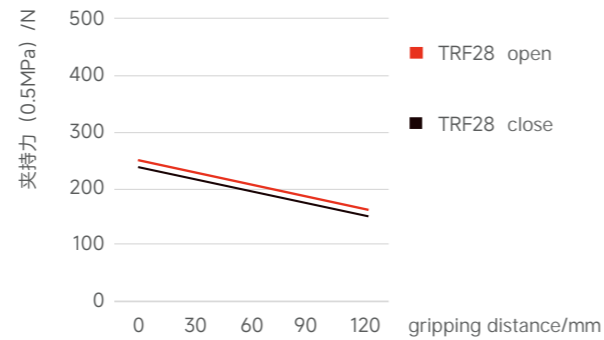
IP67 sealed serial FOUK-TRF

TRF28

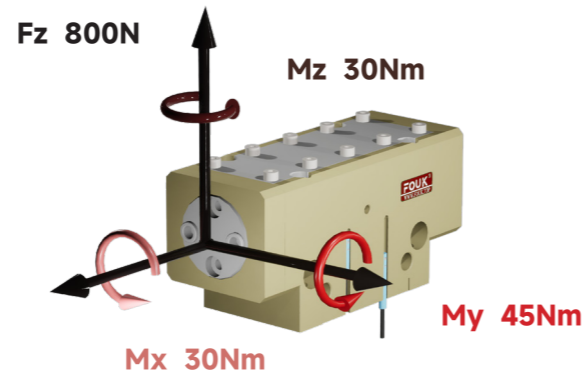
TRF28



gripping force curve



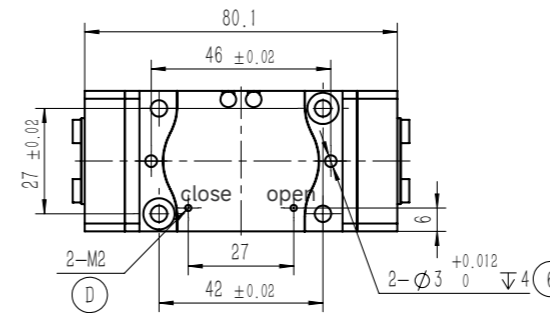
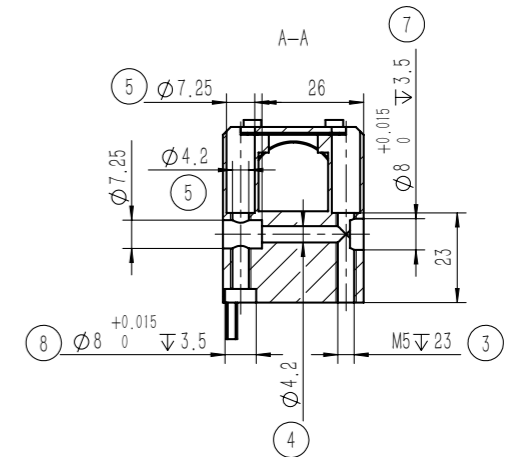
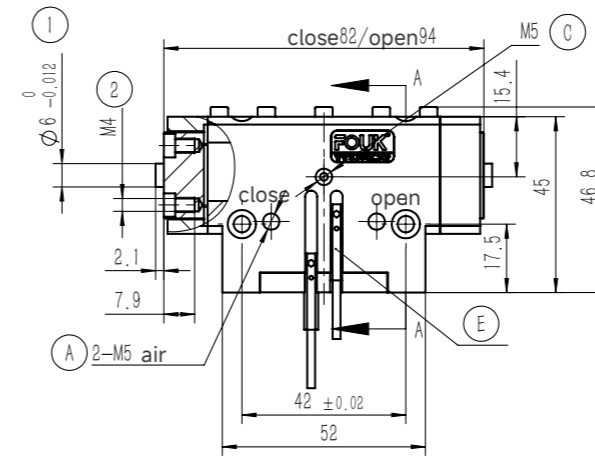
Static Bearing Torque



specification	TRF28	TRF28-NC	Unit
stroke per jaw	6	6	mm
product weight	0.4	0.5	kg
max gripping distance	60	60	mm
Theoretical Max. Gripping Force: Opening/Closing	60P/55P	-/55P	N
Air Consumptionper Opening-Closing Cycle	0.056	0.14	L
Min.spring force	/	120	N
air purge allowable pressure	0.2-0.5	0.2-0.5	bar
work piece weight	1	1	kg
opening/cosing time	0.02/0.02	0.04/0.02	s

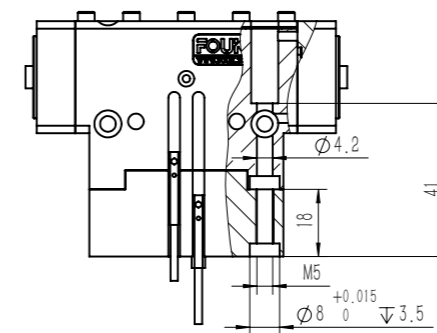
max per finger weight/kg	0.3	air connection feature	M5
repeat accuracy/mm	± 0.01	temperature range/°C	-5~60
air pressure range/bar	3-8	IP class	67

air purge working can reach IP67 otherwise IP54

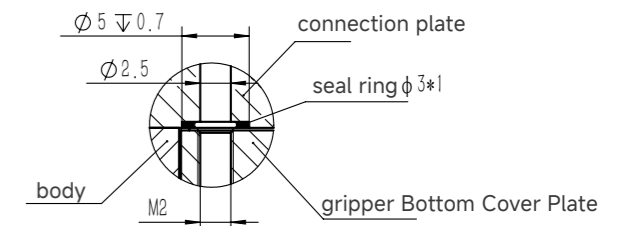


TRF28-NC

Built-inSpringwith MechanicalSelf-Locking



TRF28 hose free airconnection



- ① Gripper Finger Locating Pin Bushing (Standard)
- ② finger mounting hole
- ③④⑤ gripper mounting hole
- ⑥⑦⑧ Mounting Locating Pin Hole
- Ⓐ air connection
- Ⓒ air purge/grease injection
- Ⓓ hose free connection (Bversion)
- Ⓔ Magnetic Proximity Sensor Position

Note: To achieve IP67 protection, the positive pressure air purgeⒸ must be continuously supplied with compressed air at 0.02-0.05 MPa; otherwise, only IP54 protection is available.

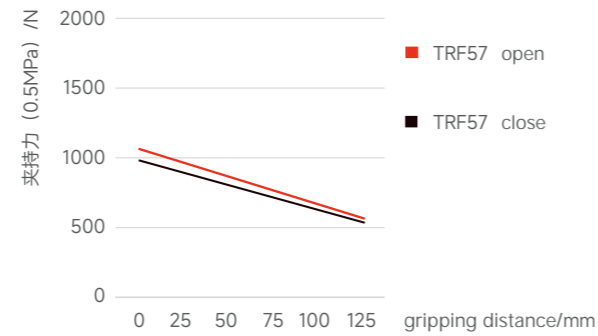
IP67sealed serial FOUK-TRF

TRF57

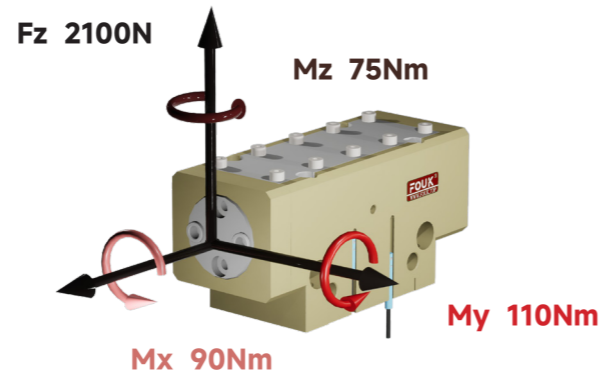
TRF57



gripping force curve

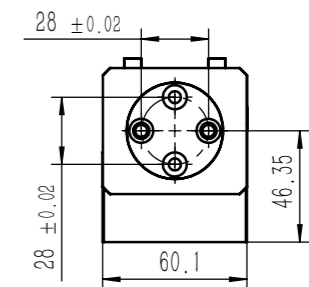
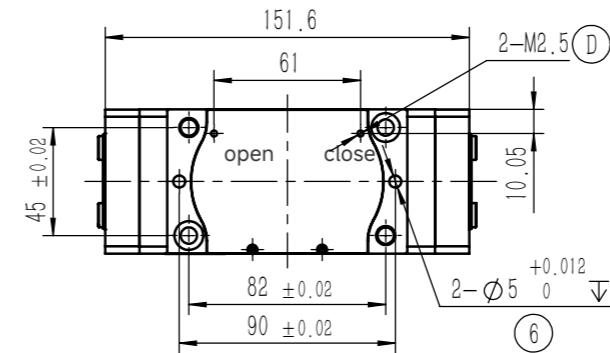
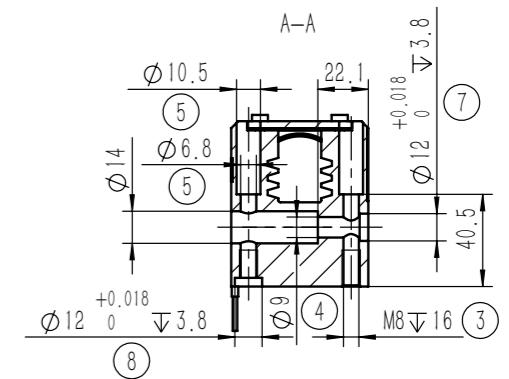
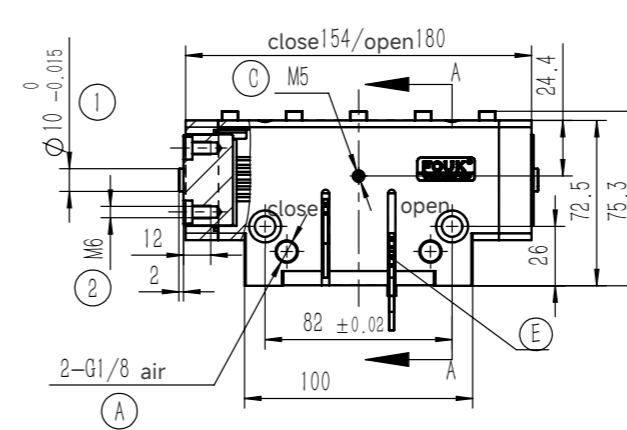


Static Bearing Torque

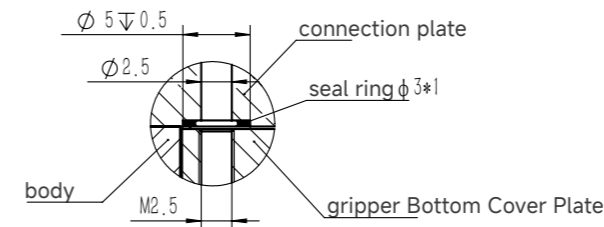


specification	TRF57	Unit	
stroke per jaw	13	mm	
product weight	2.1	kg	
max gripping distance	80	mm	
Theoretical Max. Gripping Force: Opening/Closing	214P/198P	N	
Air Consumptionper Opening-Closing Cycle	0.5	L	
air purge allowable pressure	0.2-0.5	bar	
work piece weight	5	kg	
opening/cosing time	0.09/0.09	s	
max per finger weight/kg	1.7	air connection feature	G1/8
repeat accuracy/mm	± 0.02	temperature range/°C	-5~60
air pressure range/bar	3~8	IP class	67

air purge working can reach IP67 otherwise IP54



TRF57 hose free airconnection



- ① Gripper Finger Locating Pin Bushing (Standard)
- ② finger mounting hole
- ③④⑤ gripper mounting hole
- ⑥⑦⑧ Mounting Locating Pin Hole
- Ⓐ air connection
- Ⓒ air purge/grease injection
- Ⓓ hose free connection (B version)
- Ⓔ Magnetic Proximity Sensor Position

Note: To achieve IP67 protection, the positive pressure airpurge ③ must be continuously supplied with compressed air at 0.02-0.05 MPa; otherwise, only IP54 protection is available.

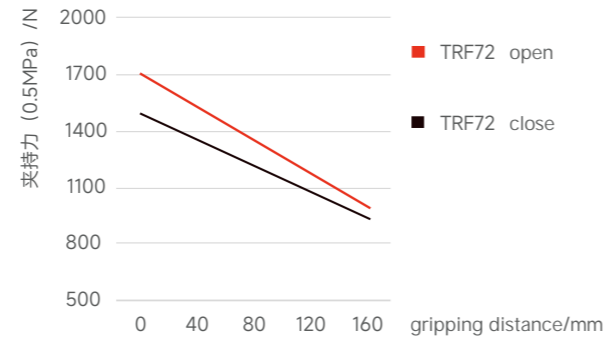
IP67sealed serial FOUK-TRF

TRF72

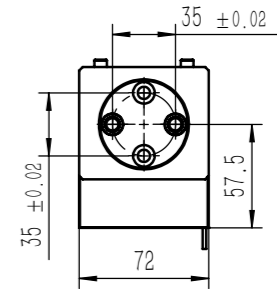
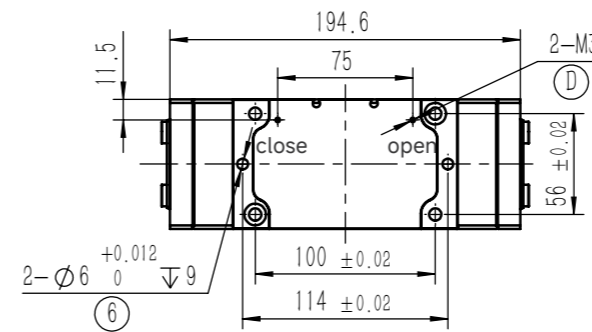
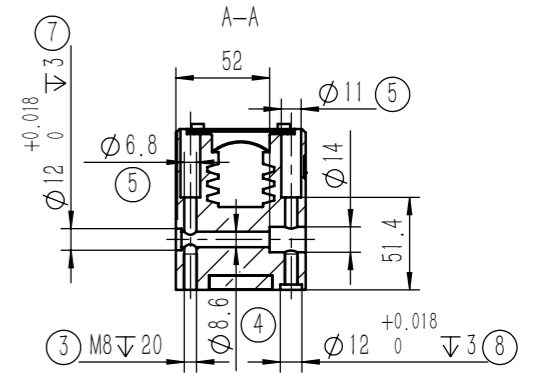
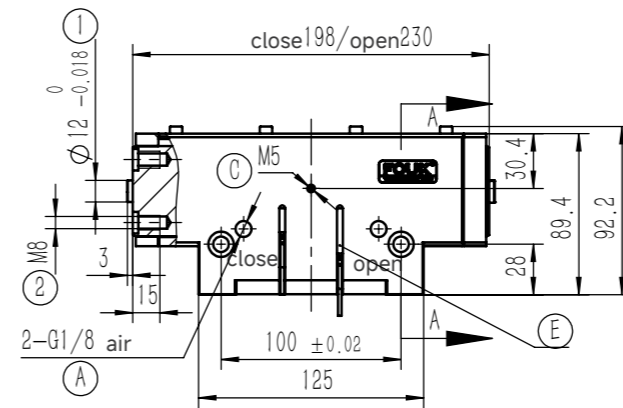
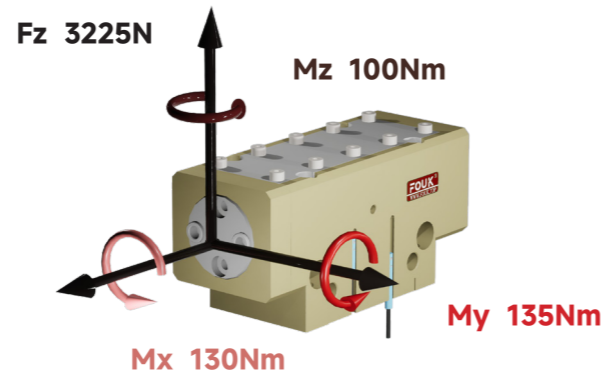
TRF72



gripping force curve



Static Bearing Torque



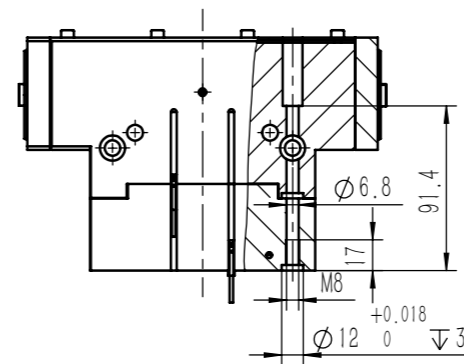
specification	TRF72	TRF72-NC	Unit
stroke per jaw	16	16	mm
product weight	3.7	4.4	kg
max gripping distance	160	160	mm
Theoretical Max. Gripping Force: Opening/Closing	340P/316P	-/316P	N
Air Consumptionper Opening-Closing Cycle	0.95	1.55	L
Min.spring force	/	540	N
air purge allowable pressure	0.2-0.5	0.2-0.5	bar
work piece weight	7.8	7.8	kg
opening/cosing time	0.1/0.1	0.2/0.1	s

max per finger weight/kg	3	air connection feature	G1/8
repeat accuracy/mm	± 0.03	temperature range/°C	-5~60
air pressure range/bar	3~8	IP class	67

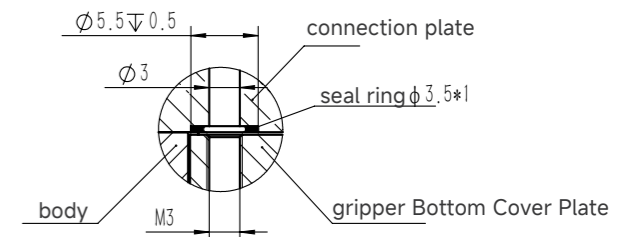
air purge working can reach IP67 otherwise IP54

TRF72-NC

Built-inSpringwith MechanicalSelf-Locking



TRF72 hose free airconnection



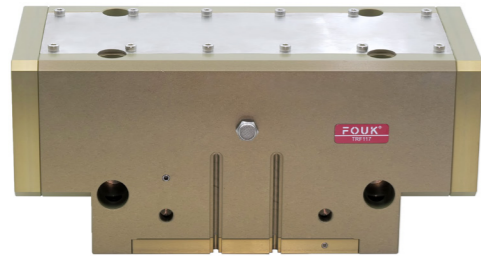
- ① Gripper Finger Locating Pin Bushing (Standard)
- ② finger mounting hole
- ③④⑤ gripper mounting hole
- ⑥⑦⑧ Mounting Locating Pin Hole
- Ⓐ air connection
- Ⓒ air purge/grease injection
- Ⓓ hose free connection (Bversion)
- Ⓔ Magnetic Proximity Sensor Position

Note: To achieve IP67 protection, the positive pressure air purgeⒸ must be continuously supplied with compressed air at 0.02~0.05 MPa; otherwise, only IP54 protection is available.

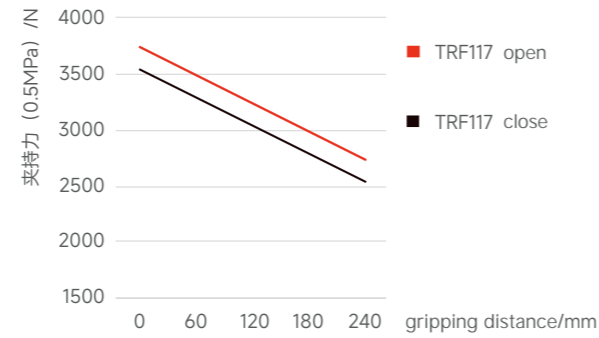
IP67sealed serial FOUK-TRF

TRF117

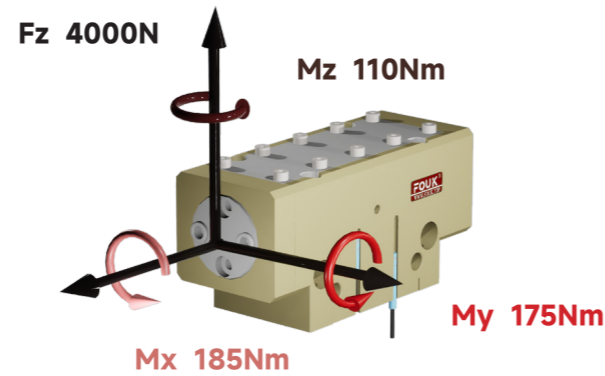
TRF117



gripping force curve



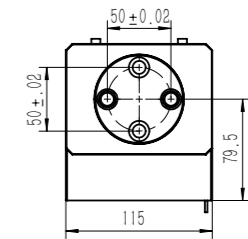
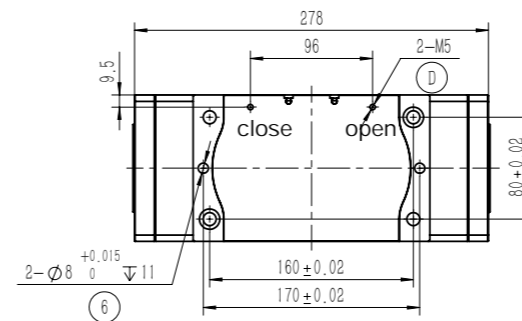
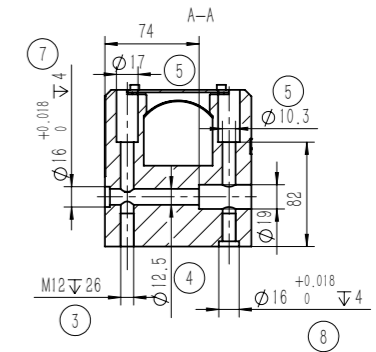
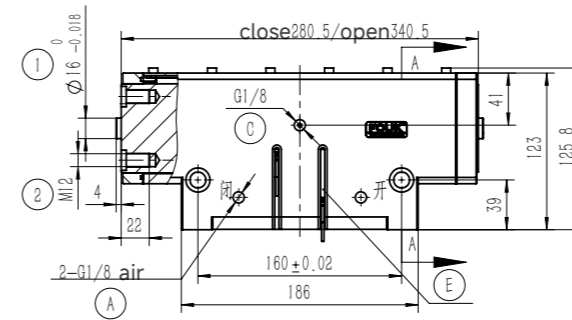
Static Bearing Torque



specification	TRF117	TRF117-NC	Unit
stroke per jaw	30	30	mm
product weight	12	14	kg
max gripping distance	240	200	mm
Theoretical Max. Gripping Force: Opening/Closing	754P/714P	-/714P	N
Air Consumptionper Opening-Closing Cycle	4	6.4	L
Min.spring force	/	990	N
air purge allowable pressure	0.2-0.5	0.2-0.5	bar
work piece weight	18.9	18.9	kg
opening/cosing time	0.5/0.5	0.9/0.45	s

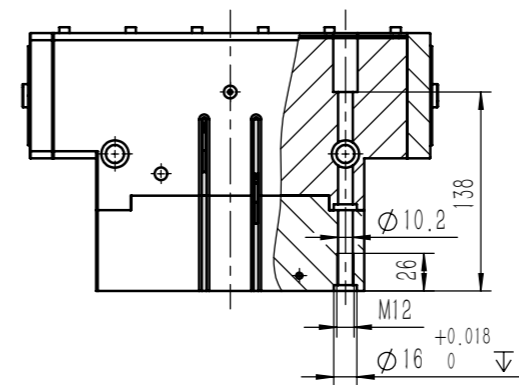
max per finger weight/kg	7	air connection feature	G1/8
repeat accuracy/mm	± 0.04	temperature range/°C	-5~60
air pressure range/bar	3~8	IP class	67

air purge working can reach IP67 otherwise IP54

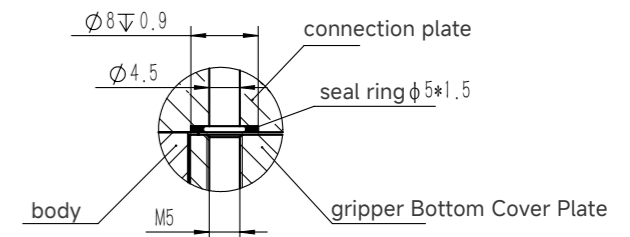


TRF117-NC

Built-inSpringwith MechanicalSelf-Locking



TRF117 hose free airconnection



- ① Gripper Finger Locating Pin Bushing (Standard)
- ② finger mounting hole
- ③④⑤ gripper mounting hole
- ⑥⑦⑧ Mounting Locating Pin Hole

- Ⓐ air connection
- Ⓒ air purge/grease injection
- Ⓓ hose free connection (Bversion)
- Ⓔ Magnetic Proximity Sensor Position

Note: To achieve IP67 protection, the positive pressure air purgeⒸ must be continuously supplied with compressed air at 0.02-0.05 MPa; otherwise, only IP54 protection is available.