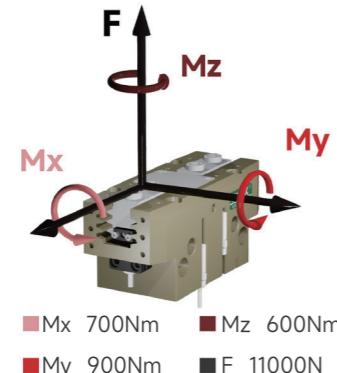


Toothed parallel gripper series FOUK-FR

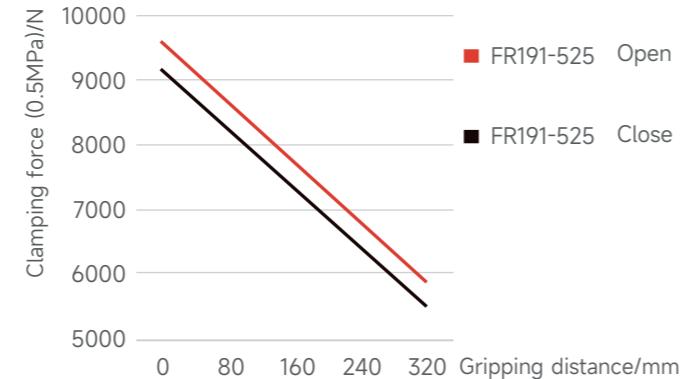
FR191-525-L

FR191-525-L

Static load-bearing torque



Gripping force curve



FR 191 - 525 - L - B - P - NC - H

Serial No. | Cylinder bore | Shell length | Stroke extension | Ventilation at bottom | Dust cover IP64 | Self-locking form | High temperature resistance

FR | Toothed parallel gripper

| Ventilation on the side | / Without dust cover | NC | Self-locking by closing | H | -5~240°C

| Without self-locking | / 0~60°C

Inductive proximity sensor

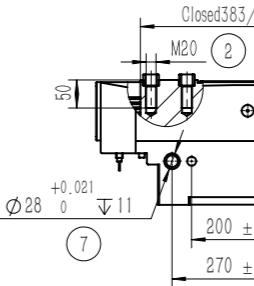
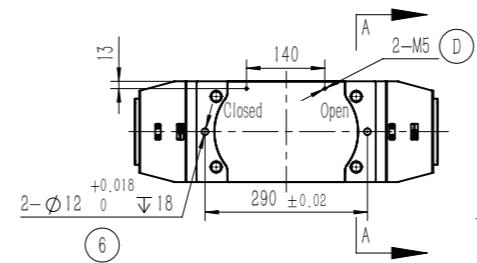
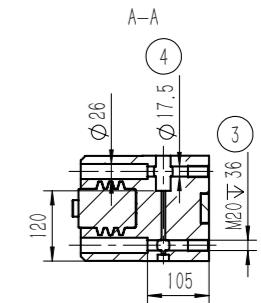
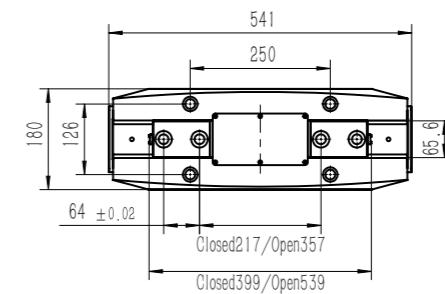
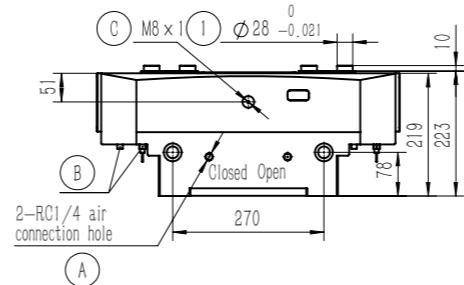
 PSD-2NS-0848-L3 | Inductive, NPN, 3-core3m
 PSD-2PS-0848-L3 | Inductive, PNP, 3-core3m

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

Product attributes	FR191-525-L	FR191-525-L-NC	Unit
Single stroke	70	70	mm
Product weight	52	62	kg
Maximum allowable gripping distance	320	320	mm
Theoretical maximum gripping force: opening/closing	1900P/1820P	-/1820P	N
Minimum Spring Locking Force		2300	N
Workpiece weight	90	110	kg
Opening/closing time	1/1	0.8/1.5	s
Gas consumption of single opening and closing cycle	22.5	25.5	L
Repeated gripping accuracy/mm	± 0.07		
Operating air pressure range/bar	3~8		
IP rating	40		

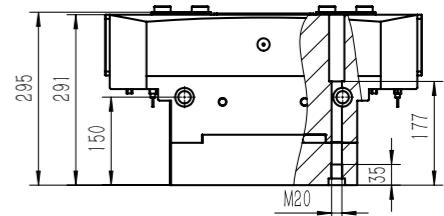
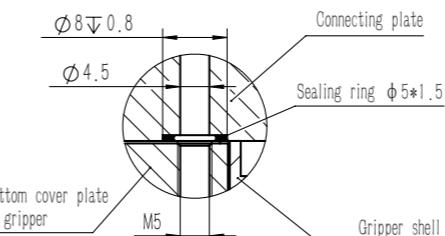
 P: Compressed air pressure [bar]
 Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

Specification of air connection port	Rc1/4
Temperature range of application/°C	-5~60
Maximum allowable single-finger gripping weight/kg	20



- 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
- Ⓐ 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

FR191-525-L-B Ventilation at bottom



FR191-525-L-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

