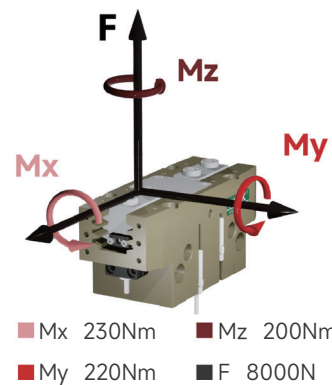


Toothed parallel gripper series FOUK-FR

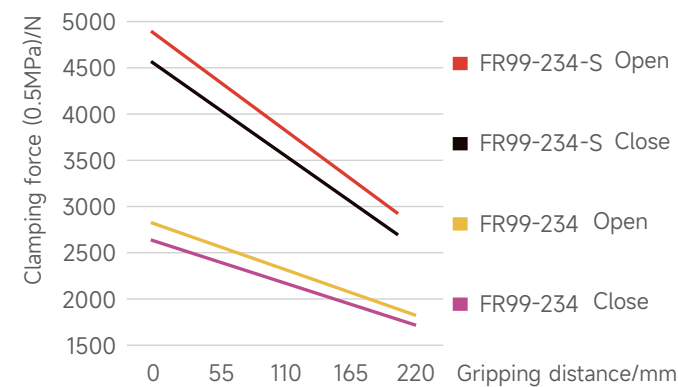
FR99-234



Static load-bearing torque



Gripping force curve



FR 99 - 234 - 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 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

D-M9NAL	Magnetic, NPN, 3-core3m
D-M9PAL	Magnetic, PNP, 3-core3m

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

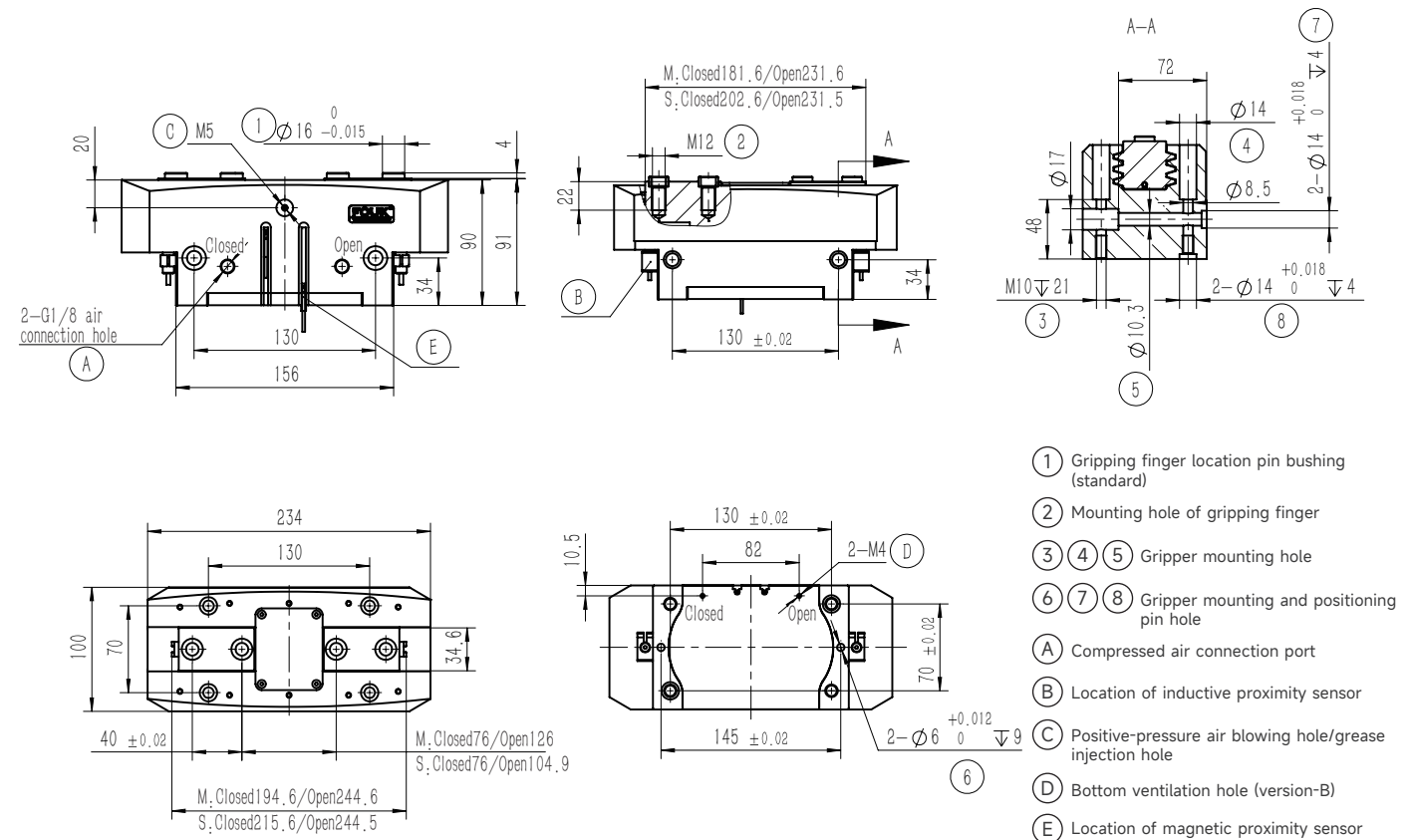
Product attributes	FR99-234	FR99-234-NO	FR99-234-NC	FR99-234-S	FR99-234-S-NO	FR99-234-S-NC	Unit
Single stroke	25	25	25	14	14	14	mm
Product weight	5.6	7	6.8	5.7	7.1	6.9	kg
Maximum allowable gripping distance	220	220	220	200	200	200	mm
Theoretical maximum gripping force: opening/closing	560P/524P	560P/-	-/524P	965P/905P	965P/-	-/905P	N
Minimum Spring Locking Force	1100		1100		1900		N
Workpiece weight	20	20	20	33	33	33	kg
Opening/closing time	0.28/0.28	0.24/0.55	0.55/0.24	0.28/0.28	0.24/0.55	0.55/0.24	s
Gas consumption of single opening and closing cycle	2.4	4.1	3.9	2.4	4.1	3.9	L

P: Compressed air pressure [bar]

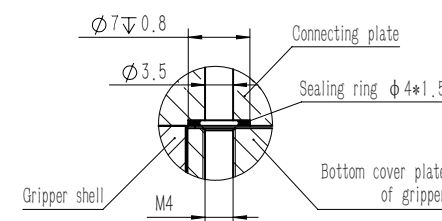
Gas consumption: volume of gas consumed at normal pressure (0.5MPa)

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	7

FR99-234-M/S

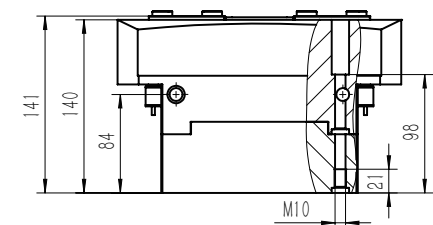


FR99-234-B Ventilation at bottom



FR99-234-NC/NO Self-locking

Built-in spring, mechanical self-locking



FR99-234-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

