

03 FOUK-TZ

3-FINGER CENTRIC GRIPPER

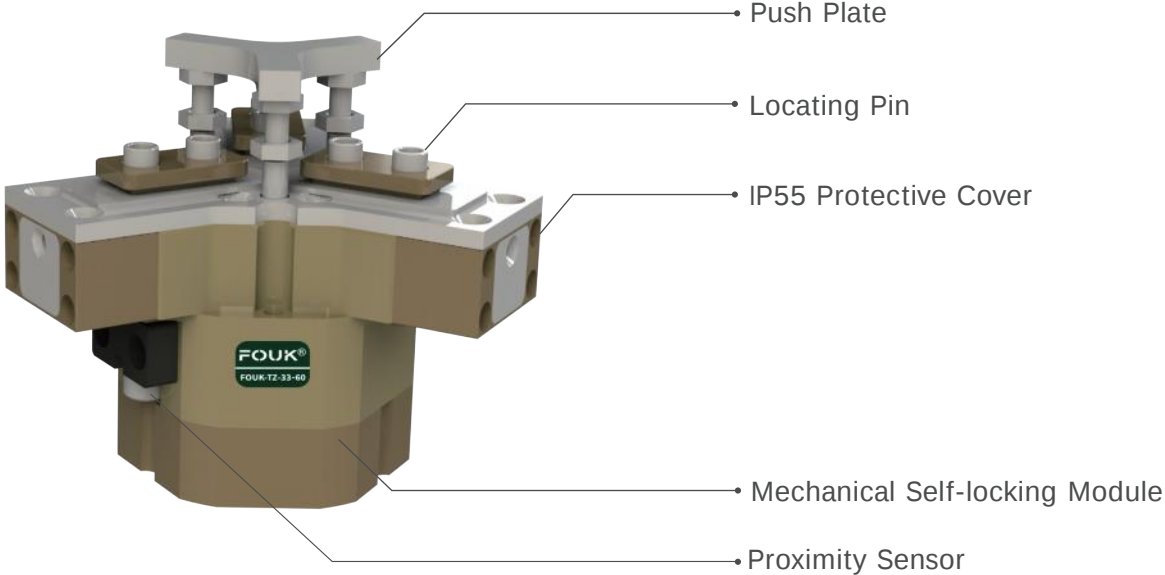


■ Technical Parameter

Product Code		Single Stroke(mm)	Open Gripping Force(N)	Close Gripping Force(N)	Workpiece Weight(kg)	Weight(kg)	Page
TZ33-60	M	6	72*P	66*P	1.5	0.3	23
TZ42-76	M	6	120*P	108*P	3	0.5	25
TZ55-94	M	8	200*P	186*P	5	0.85	31
	S	5.5	280*P	260*P	7	0.8	33
TZ75-119	M	10	386*P	370*P	9	1.6	35
	S	7	530*P	510*P	12	1.5	37
TZ95-146	M	13	620*P	590*P	14	2.9	39
	S	9	830*P	790*P	19	2.8	41
TZ125-179	M	16	1080*P	1030*P	25	6.8	43
	S	11	1450*P	1390*P	33	6.6	45
TZ160-218	M	18	1740*P	1680*P	45	8.8	47
	S	12.5	2300*P	2220*P	60	8.6	49

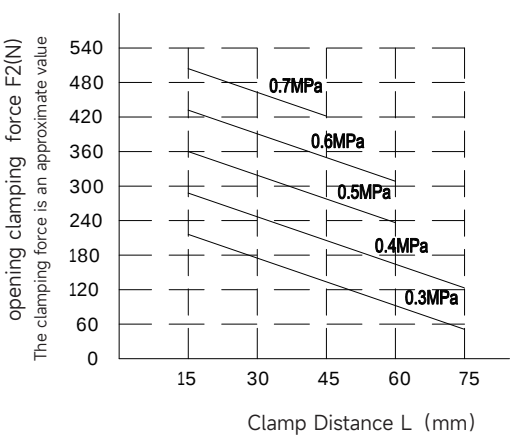
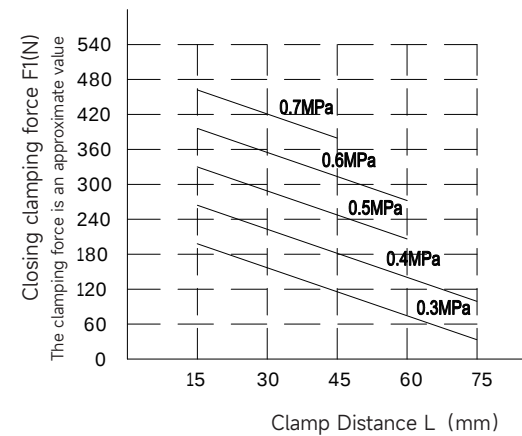
M: Standard version, S: Stroke shorten , Increased clamping force

P: Air Pressure [bar]



Note: The standard version of the product does not include push plate, IP55 protective cover, mechanical self-locking module, and proximity sensor, which are options.

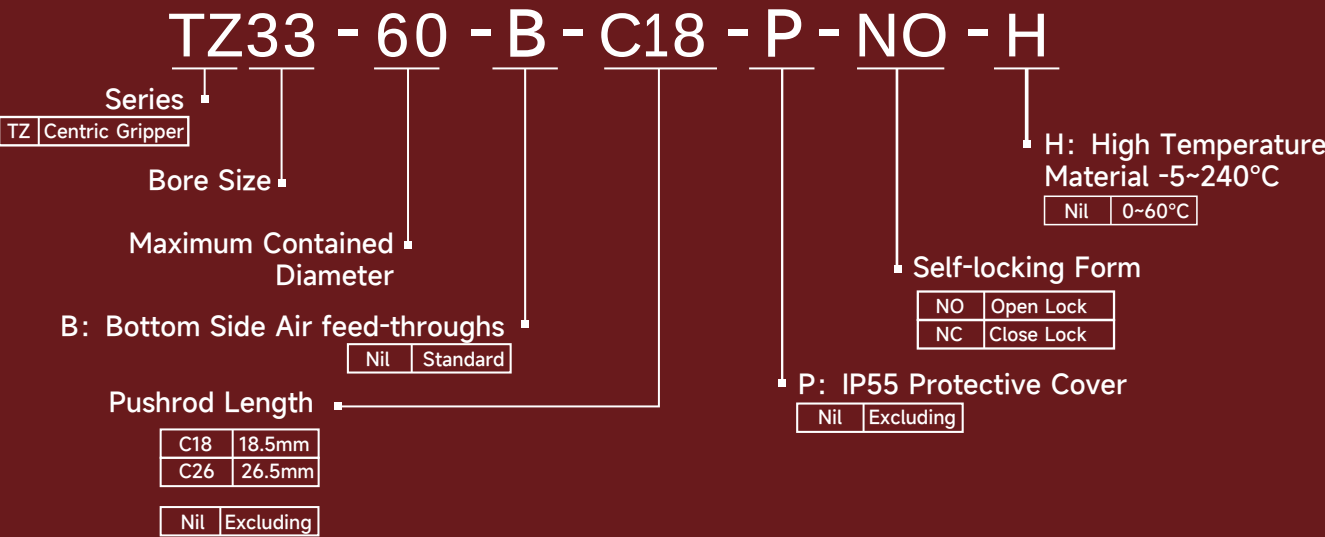
■ Clamping force TZ33-60



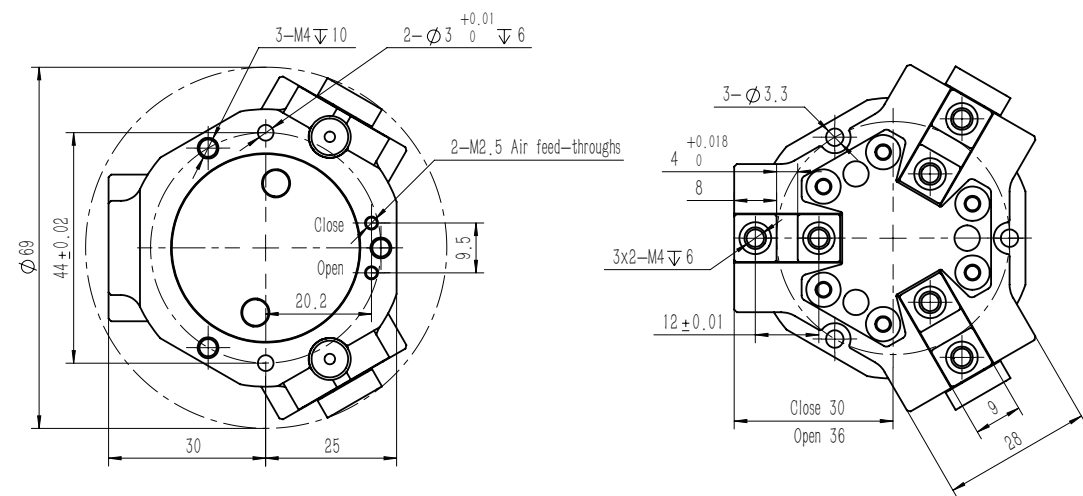
■ Technical Parameter

Product properties	TZ33-60	TZ33-60-NO	TZ33-60-NC	Unit
Single stroke	6	6	6	mm
Weight	0.3	0.45	0.4	kg
Max. clamp pistance	75	75	75	mm
Fitting size	M5	M5	M5	
Girpping Force: open/close	72*P/66*P	72*P	66*P	N
Max. locking force		220	220	N
Min. locking force		150	150	N
Workpiece weight	1.5	1.5	1.5	kg
Continuation max frequency	45	35	35	cpm
Repeat accuracy	±0.02	±0.02	±0.02	mm
Air pressure	3~7	4~7	4~7	bar
Ambient temperature	0~60	0~60	0~60	°C
IP grade	45			

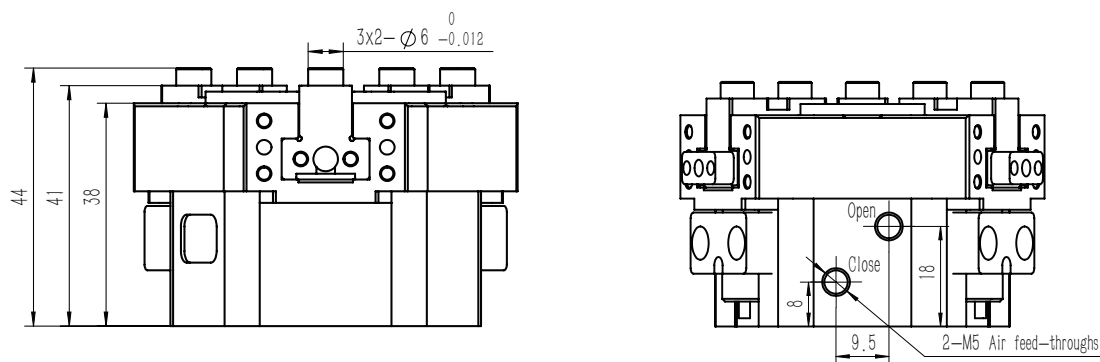
P: Air Pressure [bar]



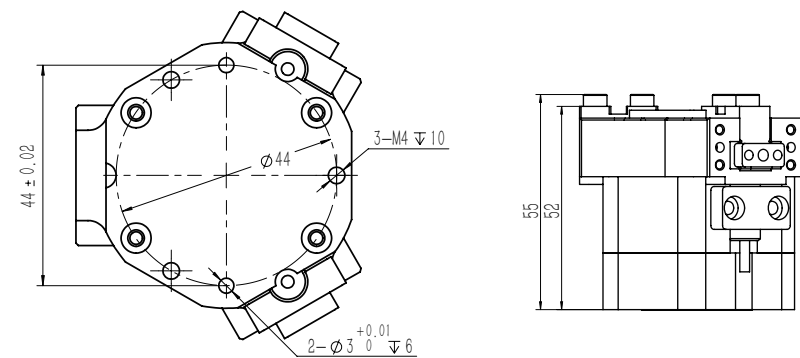
TZ33-60



Bottom Port Dimension (B): Recommended connecting flange size $\phi 5.5 \nabla 0.7$, seal ring $\phi 3.5 \times 1$.



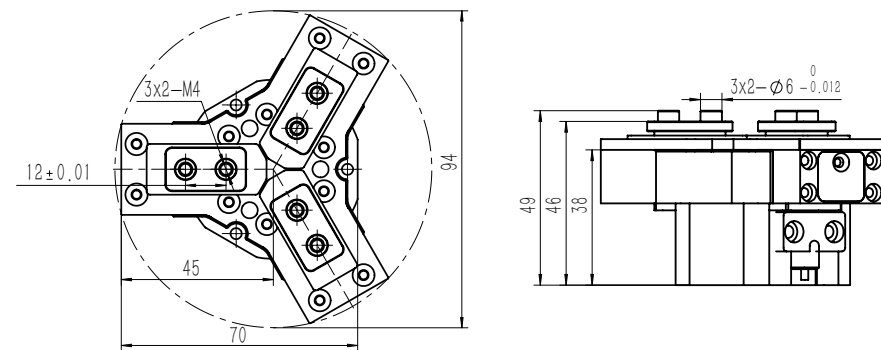
TZ33-60-NO/NC Self-locking type



Accessory description:

TZ33 series optional open/close self-locking module can maintain the clamping status even in the case of low air pressure or loss of air supply, providing self-locking function and increasing the stability of clamping action at the same time.

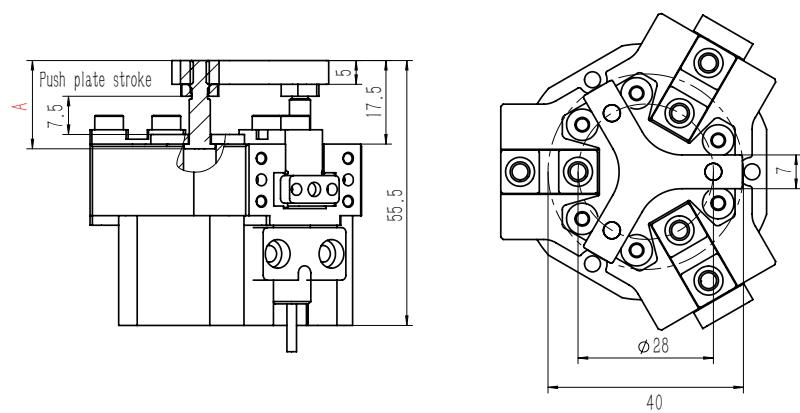
TZ33-60-P Dust proof type



Accessory description:

Considering the diverse and complex working conditions of the gripper, the gripper is required to have better dust-proof performance. The TZ33 series is equipped with optional dust-proof unit, and the protection level is upgraded to IP55 to further enhance the performance of the gripper under complex working conditions.

TZ33-60-C18 Push plate

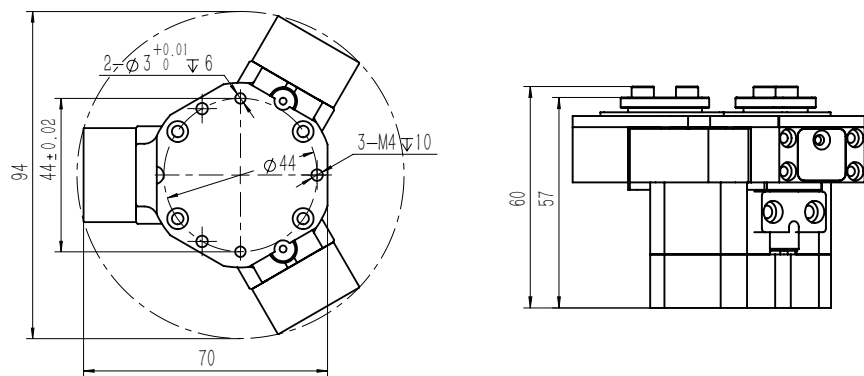


Accessory description:

TZ33 series opening up the pushing interface and offers different optional heights of 18.5mm and 26.5mm. Dust cover plate promoted 6.5mm.

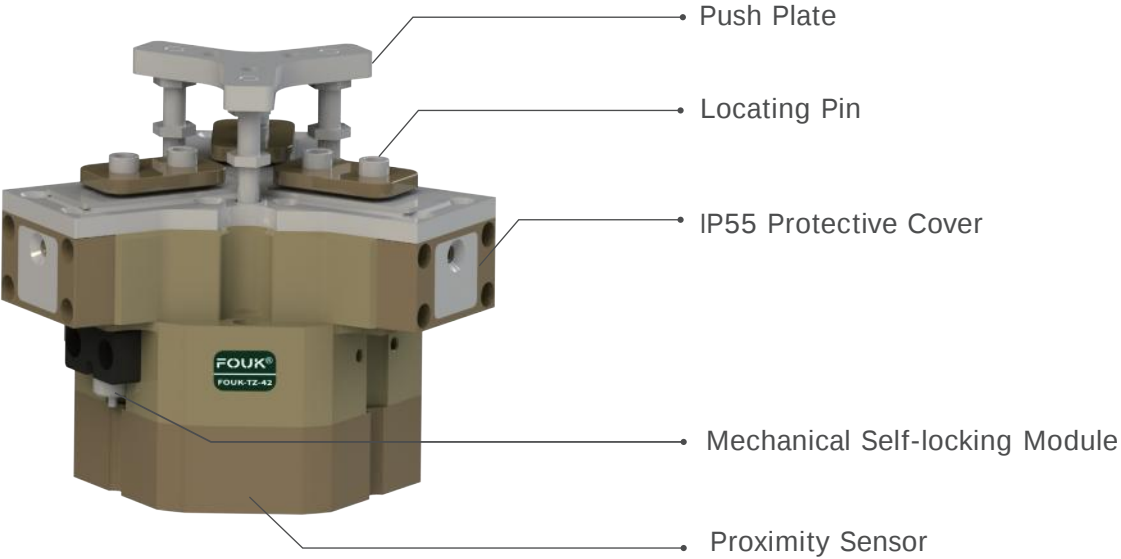
Pushing plate floats to provide thrust and the high quality hardened spring provides over 500,000 cycles of service life to ensure its functional reliability under prolonged impact.

TZ33-60-P-NO/NC Self-locking Dust proof type

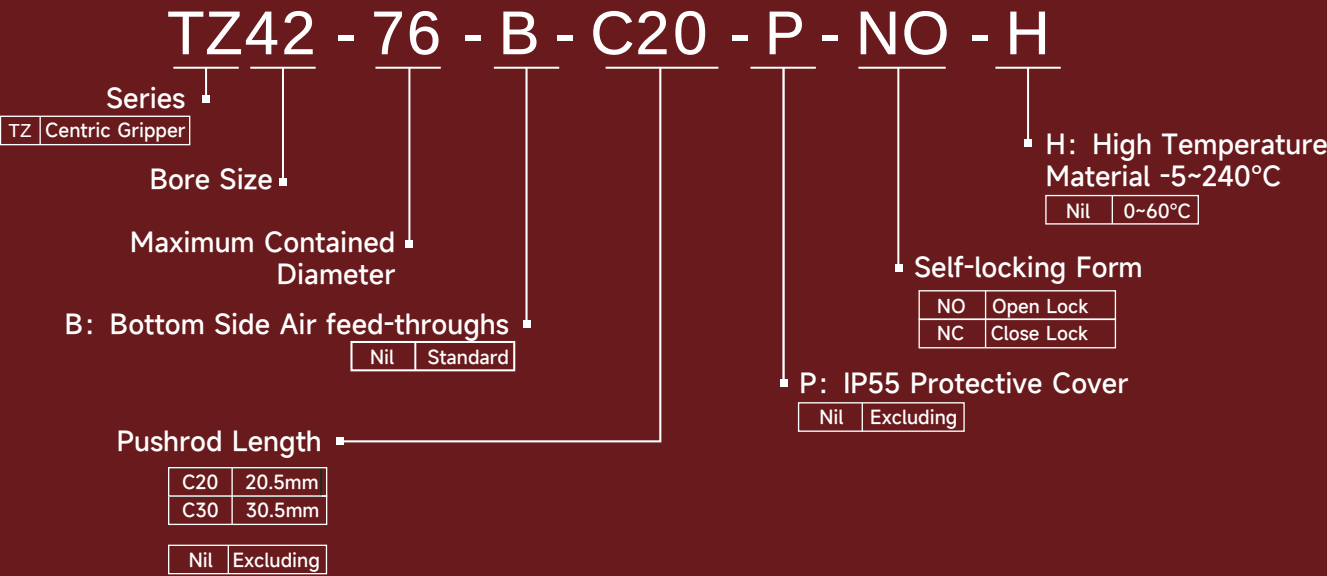


Accessory description:

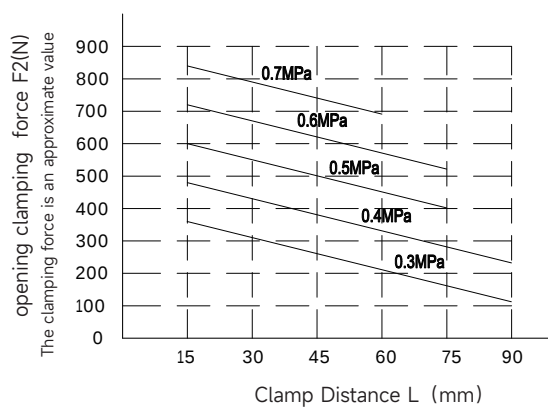
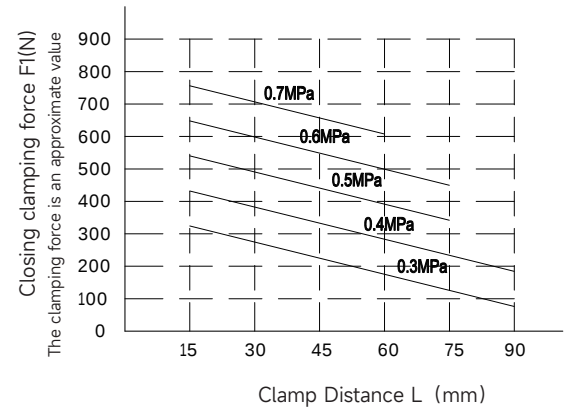
The TZ33 series offers a combination of dust-proof module and self-locking module to meet more diverse application scenarios and customer needs.



Note: The standard version of the product does not include push plate, IP55 protective cover, mechanical self-locking module, and proximity sensor, which are options.



■ Clamping force TZ42-76

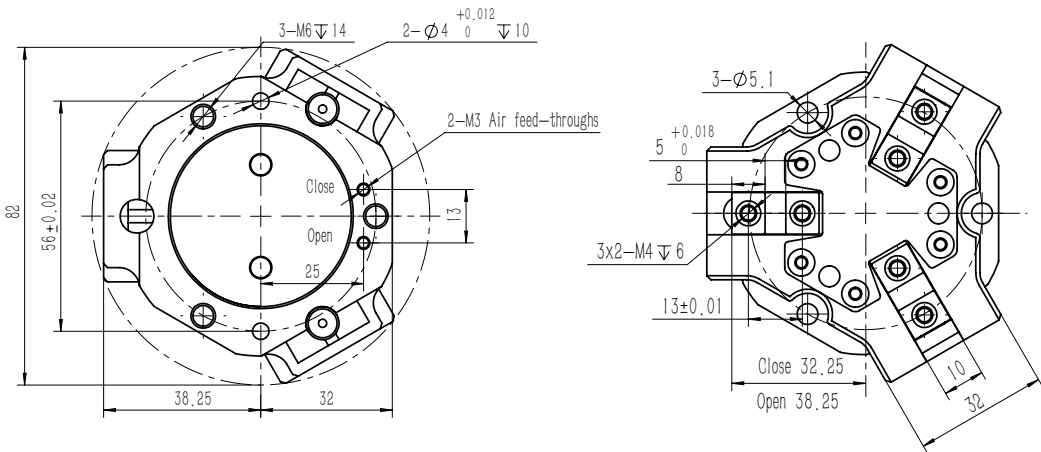


■ Technical Parameter

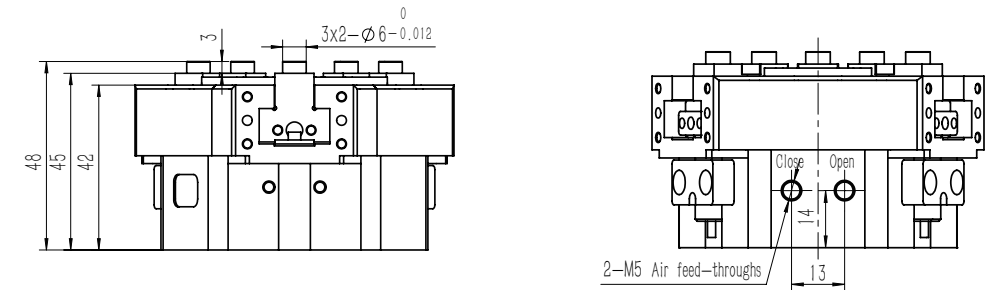
Product properties	TZ42-76	TZ42-76-NO	TZ42-76-NC	Unit
Single stroke	6	6	6	mm
Weight	0.5	0.75	0.75	kg
Max. clamp pistonce	90	90	90	mm
Fitting size	M5	M5	M5	
Girpping force: open/close	120*P/108*P	120*P	108*P	N
Max. locking force		340	340	N
Min. locking force		240	240	N
Workpiece weight	3	3	3	kg
Continuation max frequency	40	30	30	cpm
Repeat accuracy	±0.02	±0.02	±0.02	mm
Air pressure	3~7	4~7	4~7	bar
Ambient temperature	0~60	0~60	0~60	°C
IP grade	45			

P: Air Pressure [bar]

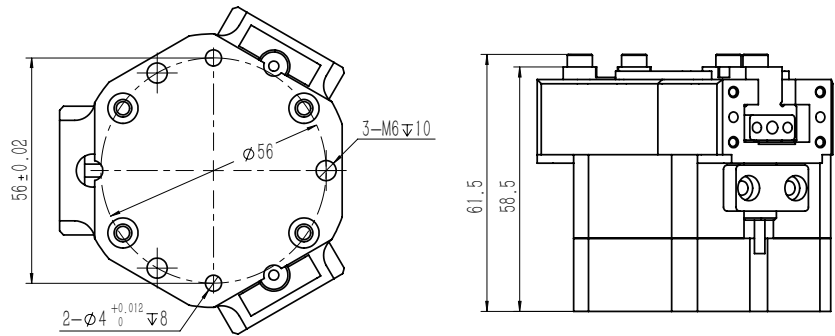
TZ42-76



Bottom Port Dimension (B): Recommended connecting flange size $\phi 5.5 \nabla 0.7$, seal ring $\phi 3.5 \times 1$.



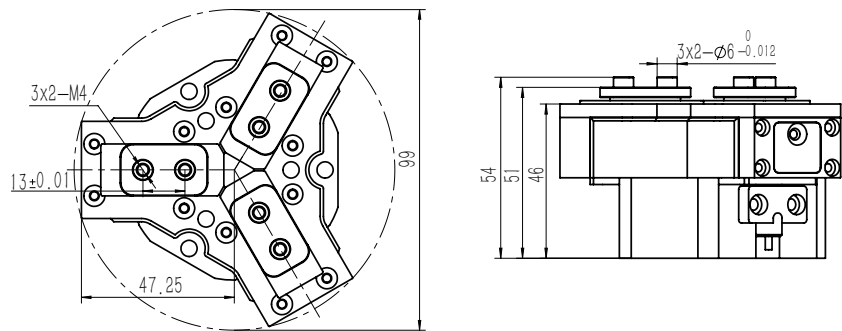
TZ42-76-NO/NC Self-locking type



Accessory description:

TZ42 series optional open/close self-locking module can maintain the clamping status even in the case of low air pressure or loss of air supply, providing self-locking function and increasing the stability of clamping action at the same time.

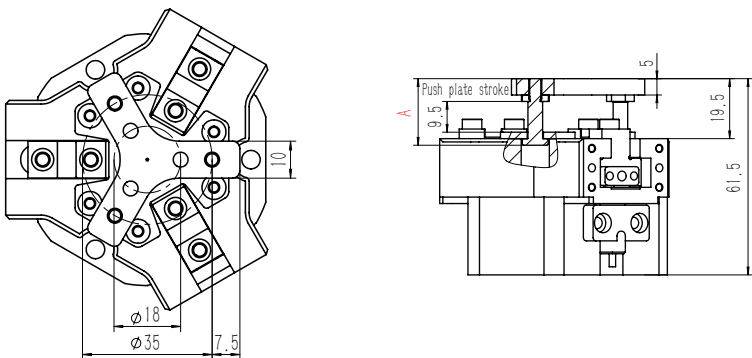
TZ42-76-P Dust proof type



Accessory description:

Considering the diverse and complex working conditions of the gripper, the gripper is required to have better dust-proof performance. The TZ42 series is equipped with optional dust-proof unit, and the protection level is upgraded to IP55 to further enhance the performance of the gripper under complex working conditions.

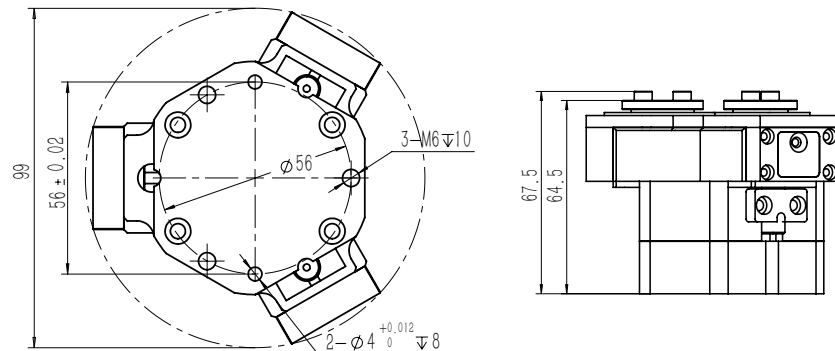
TZ42-76-C20 Push plate



Accessory description:

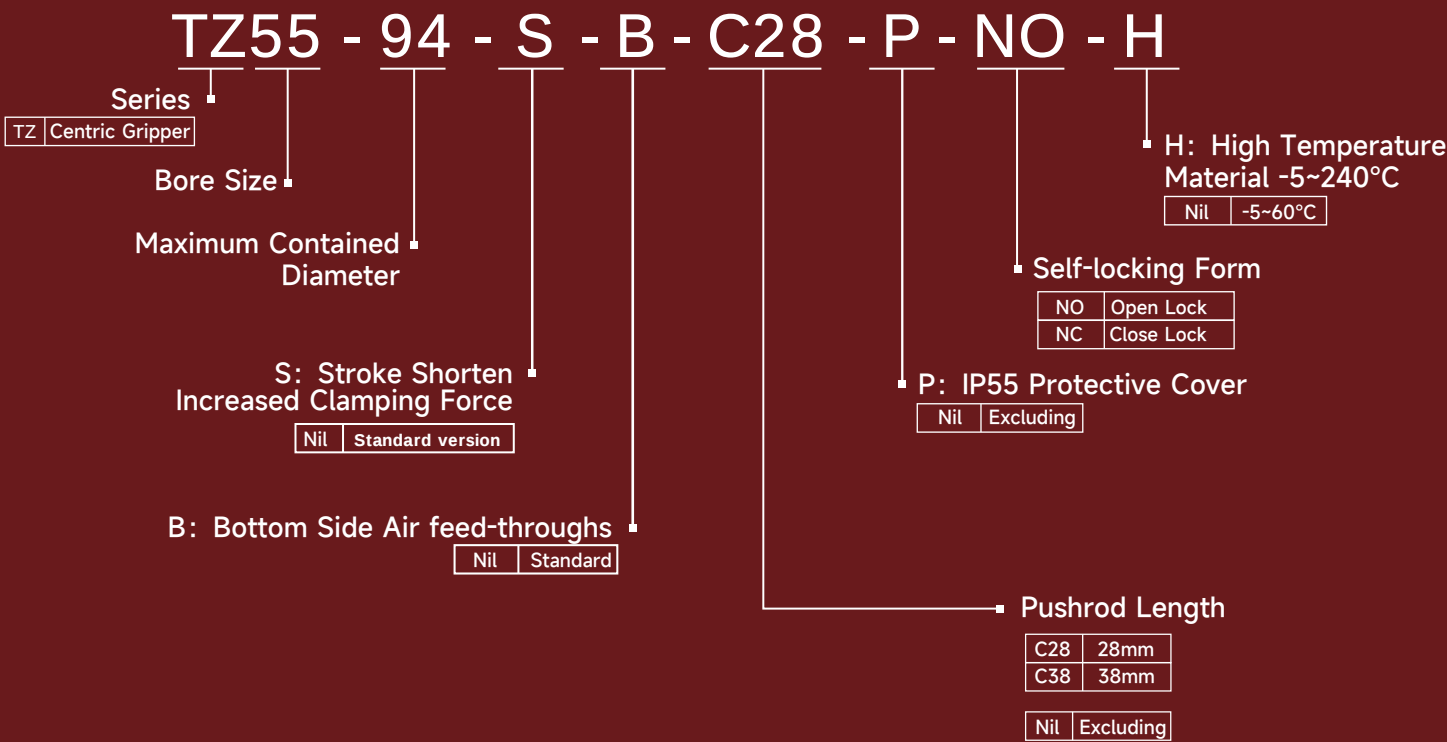
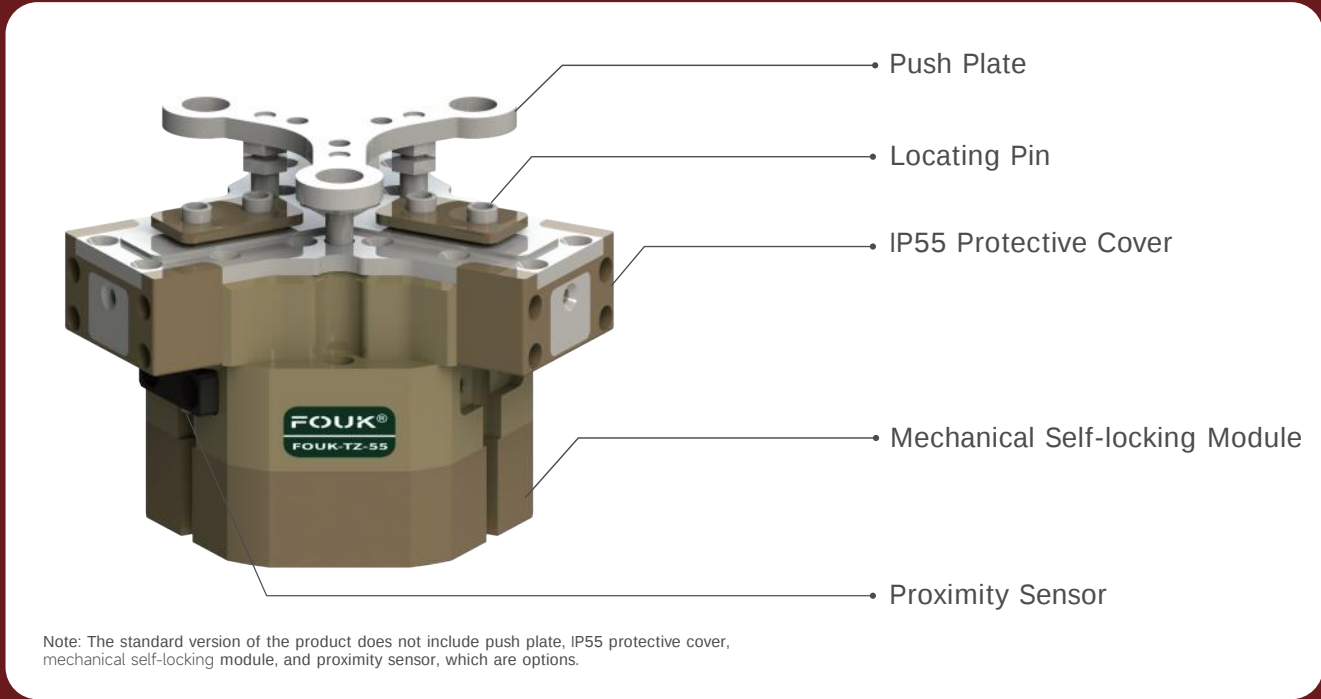
TZ42 series opening up the pushing interface and offers different optional heights of 20.5mm and 30.5mm. Dust cover plate promoted 7.5mm. Pushing plate floats to provide thrust and the high quality hardened spring provides over 500,000 cycles of service life to ensure its functional reliability under prolonged impact.

TZ42-76-P-NO/NC Self-locking Dust proof type

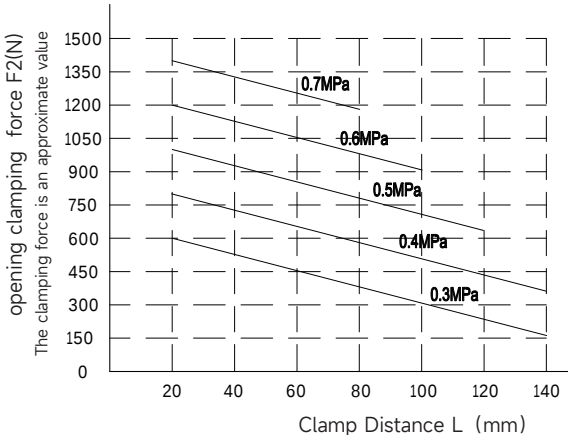
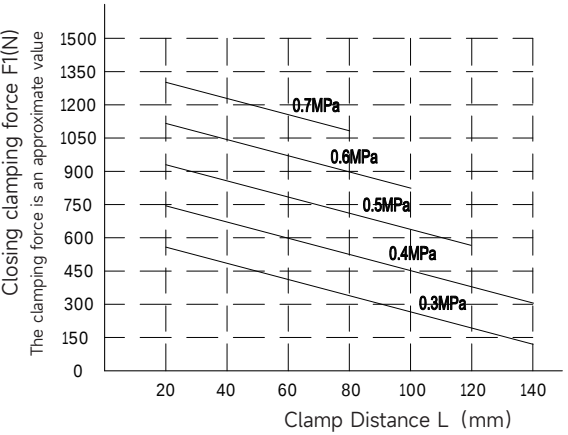


Accessory description:

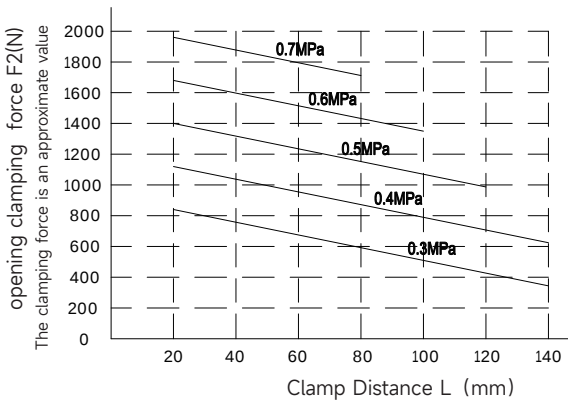
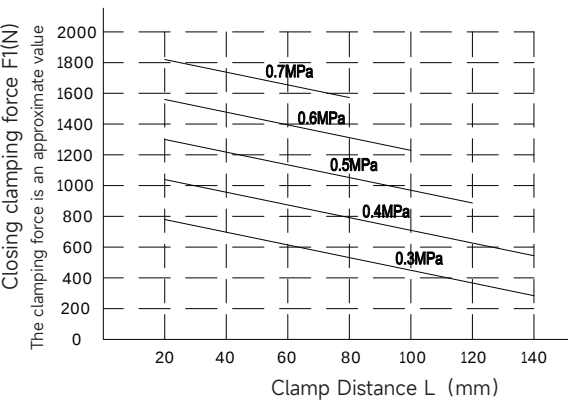
The TZ42 series offers a combination of dust-proof module and self-locking module to meet more diverse application scenarios and customer needs.



■ Clamping force TZ55-94



■ Clamping force TZ55-94-S

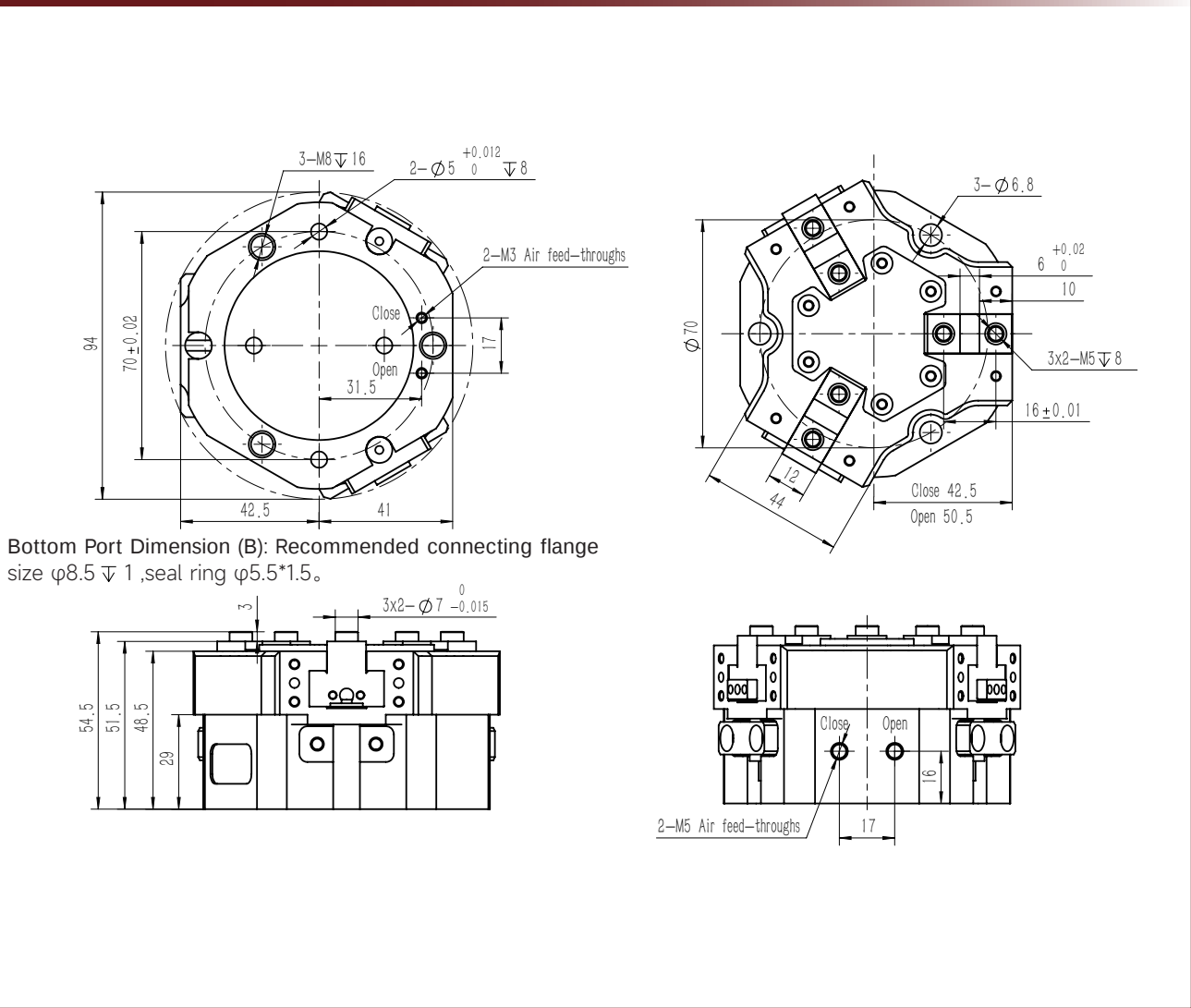


■ Technical Parameter

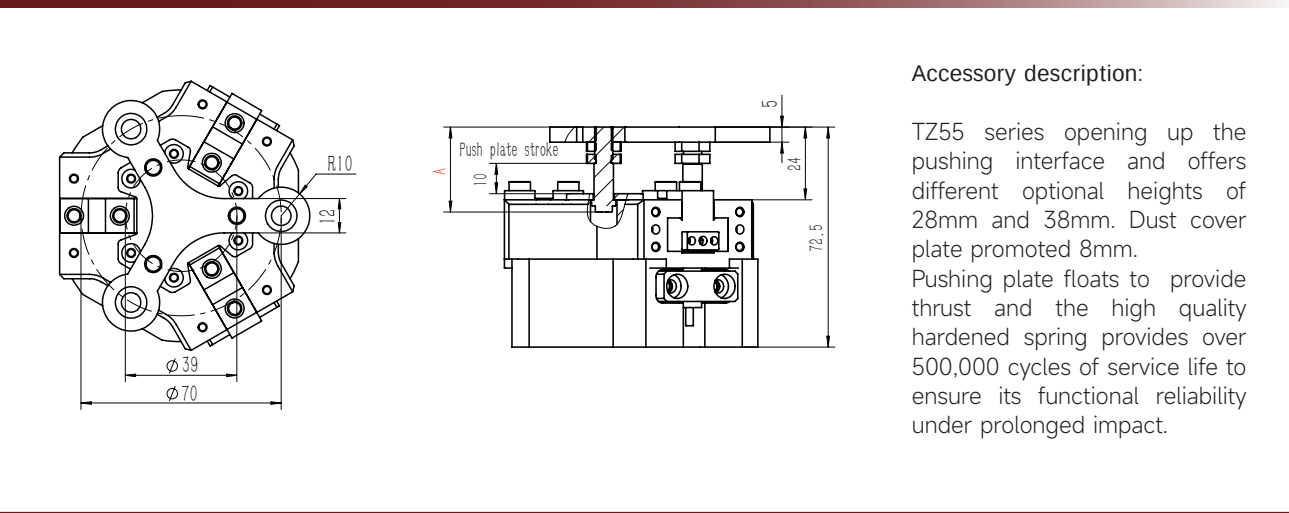
Product properties	TZ55-94	TZ55-94-NO	TZ55-94-NC	TZ55-94-S	TZ55-94-S-NO	TZ55-94-S-NC	Unit
Single stroke	8	8	8	5.5	5.5	5.5	mm
Weight	0.85	1.2	1.15	0.8	1.2	1.15	kg
Max. clamp pistance	140	140	140	140	140	140	mm
Fitting size	M5	M5	M5	M5	M5	M5	
Girpping Force: open/close	200*P/186*P	200*P	186*P	280*P/260*P	280*P	260*P	N
Max. locking force		570	570		750	750	N
Min. locking force		380	380		500	500	N
Workpiece weight	5	5	5	7	7	7	kg
Continuation max frequency	35	25	25	35	25	25	cpm
Repeat accuracy	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	mm
Air pressure	3~7	4~7	4~7	3~7	4~7	4~7	bar
Ambient temperature	-5~60	-5~60	-5~60	-5~60	-5~60	-5~60	°C
IP grade	45						

P: Air Pressure [bar]

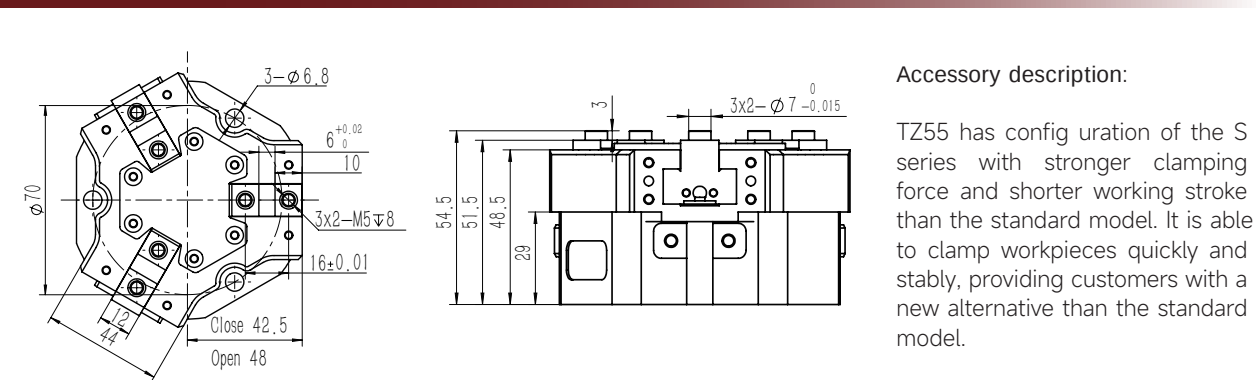
TZ55-94



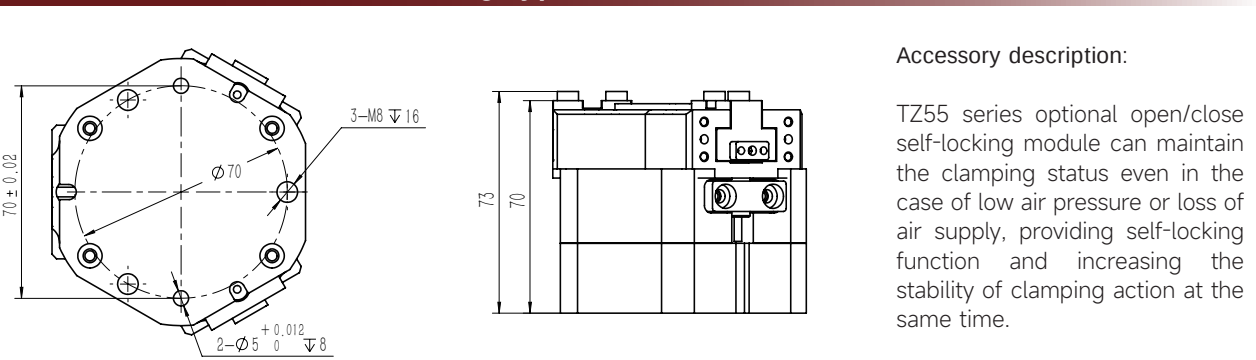
TZ55-94-M/S-C28 Push plate



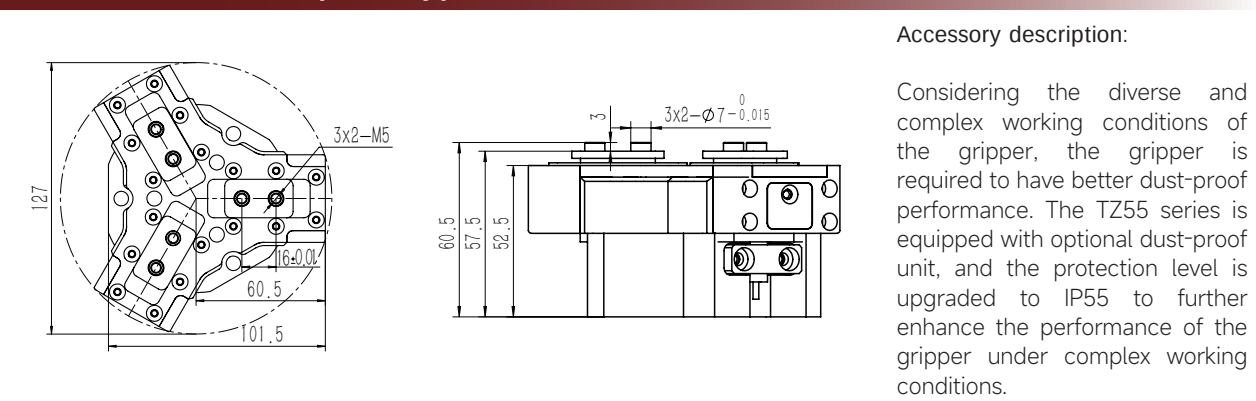
TZ55-94-S



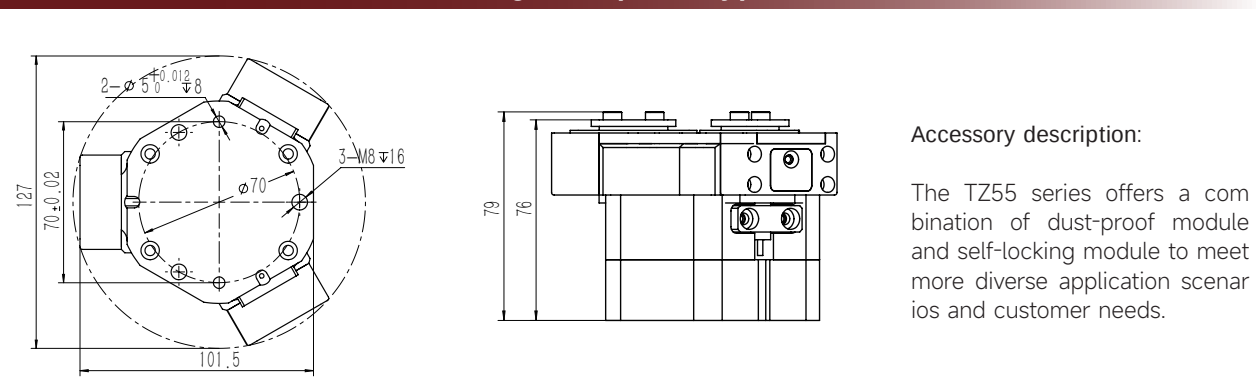
TZ55-94-M/S-NO/NC Self-locking type

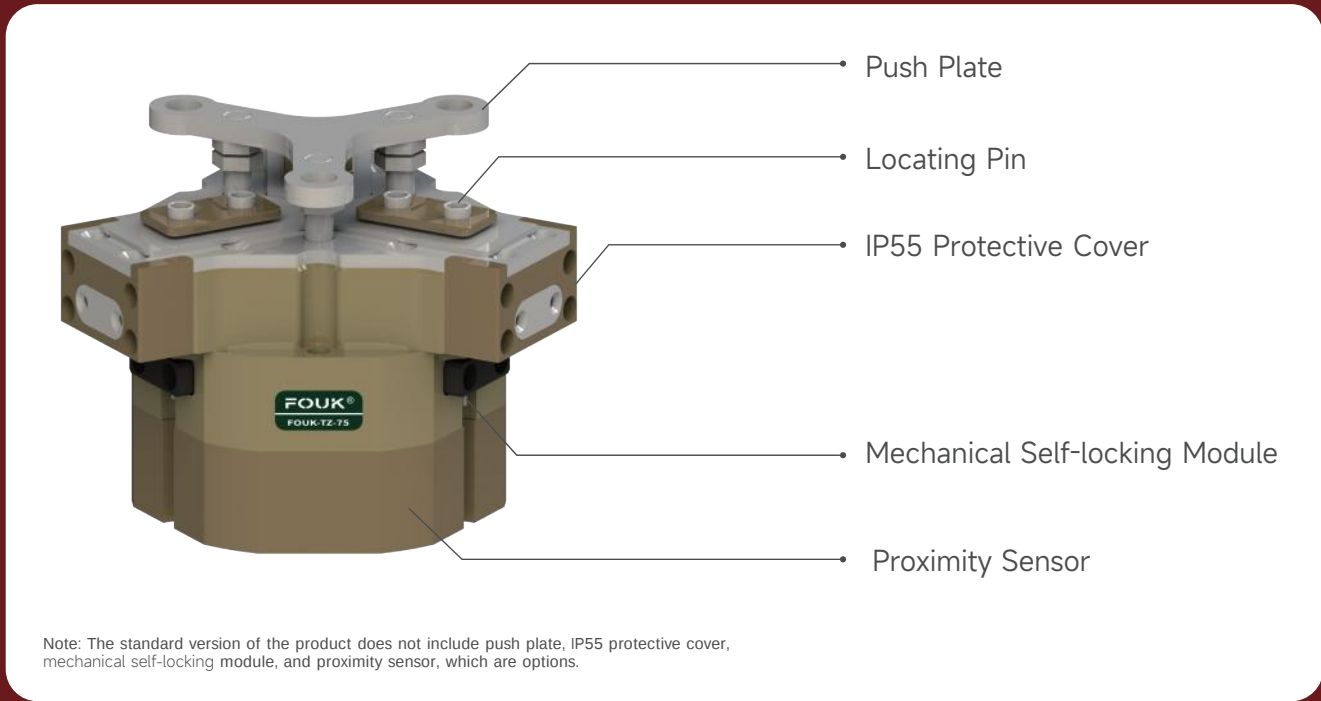


TZ55-94-M/S-P Dust proof type

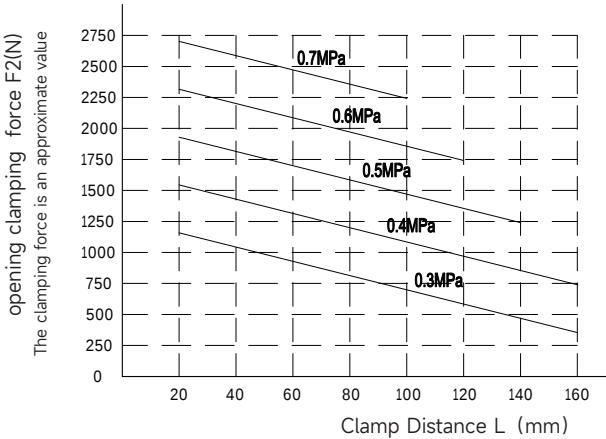
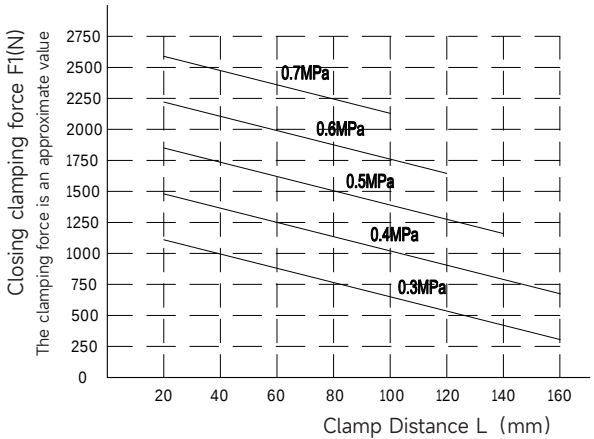


TZ55-94-M/S-P-NO/NC Self-locking Dust proof type

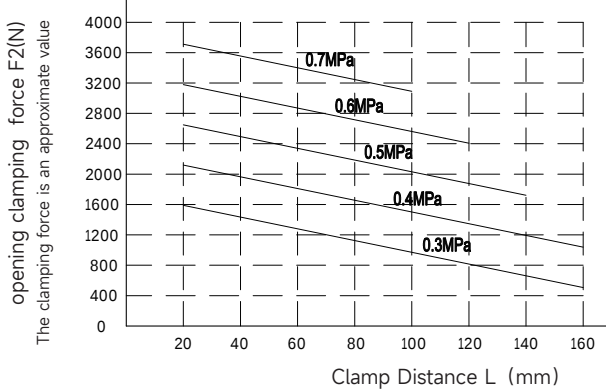
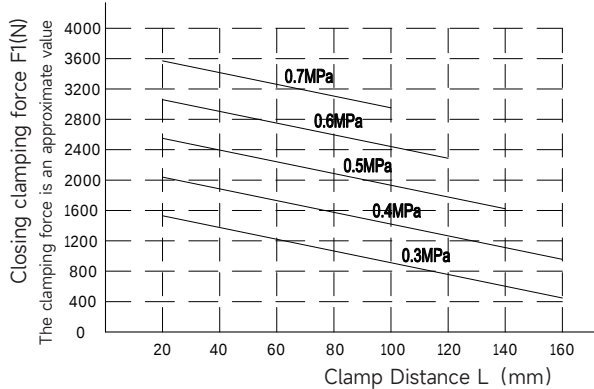




■ Clamping force TZ75-119



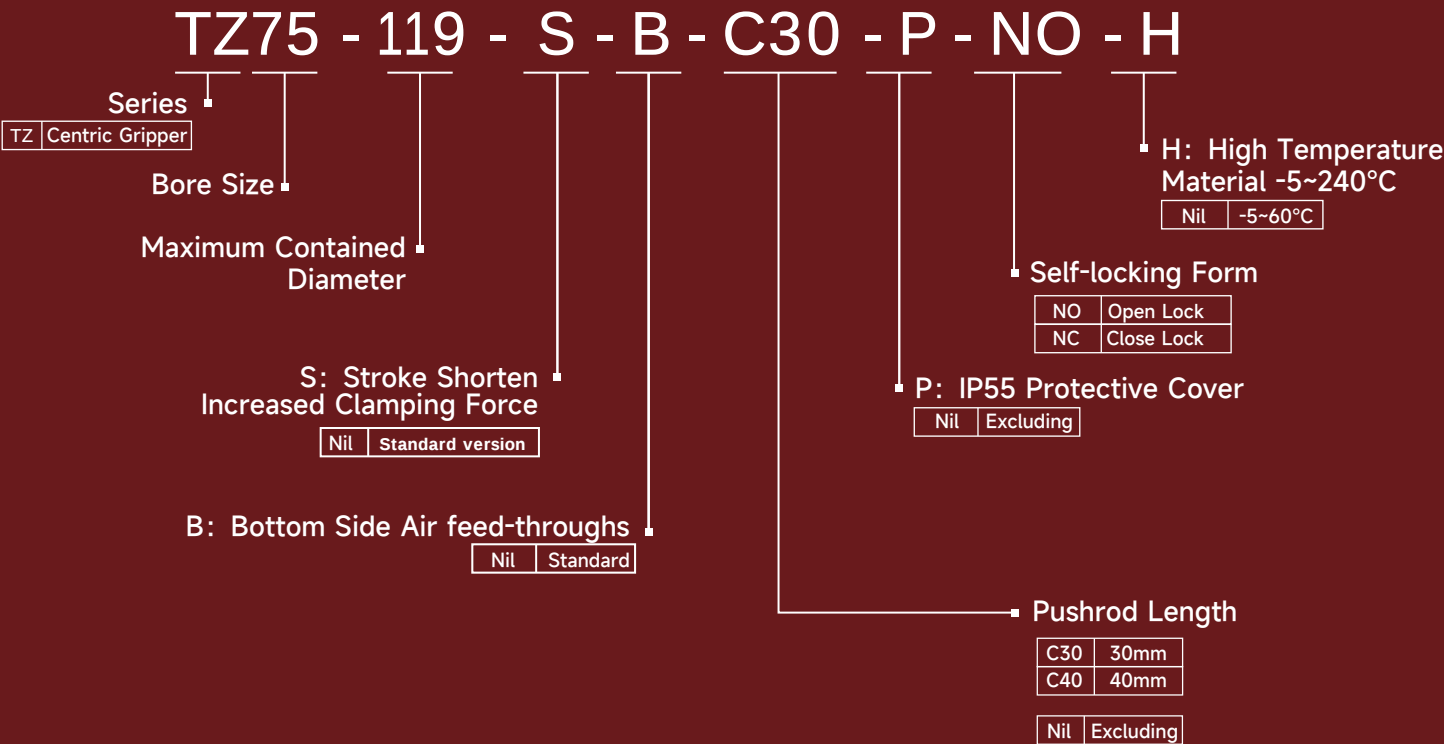
■ Clamping force TZ75-119-S



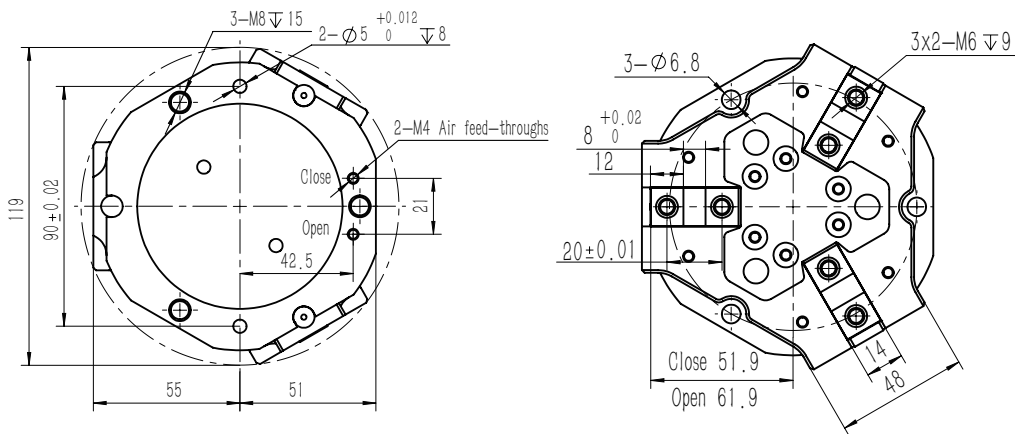
■ Technical Parameter

Product properties	TZ75-119	TZ75-119-NO	TZ75-119-NC	TZ75-119-S	TZ75-119-S-NO	TZ75-119-S-NC	Unit
Single stroke	10	10	10	7	7	7	mm
Weight	1.6	2.3	2.2	1.5	2.3	2.2	kg
Max. clamp pistance	160	160	160	160	160	160	mm
Fitting size	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	
Girpping Force: open/close	386*P/370*P	386*P	370*P	530*P/510*P	530*P	510*P	N
Max. locking force		1000	1000		1300	1300	N
Min. locking force		710	710		930	930	N
Workpiece weight	9	9	9	12	12	12	kg
Continuation max frequency	30	25	25	30	25	25	cpm
Repeat accuracy	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	mm
Air pressure	3~7	4~7	4~7	3~7	4~7	4~7	bar
Ambient temperature	-5~60	-5~60	-5~60	-5~60	-5~60	-5~60	°C
IP grade	45						

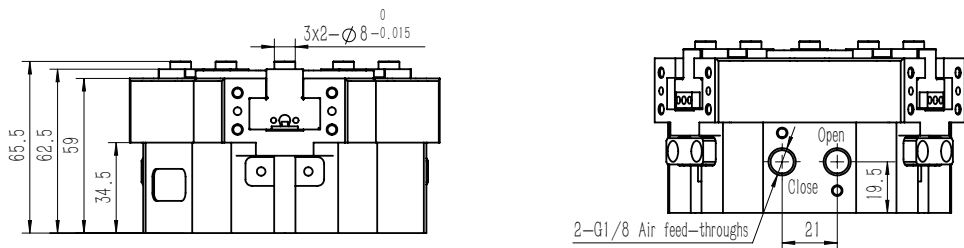
P: Air Pressure [bar]



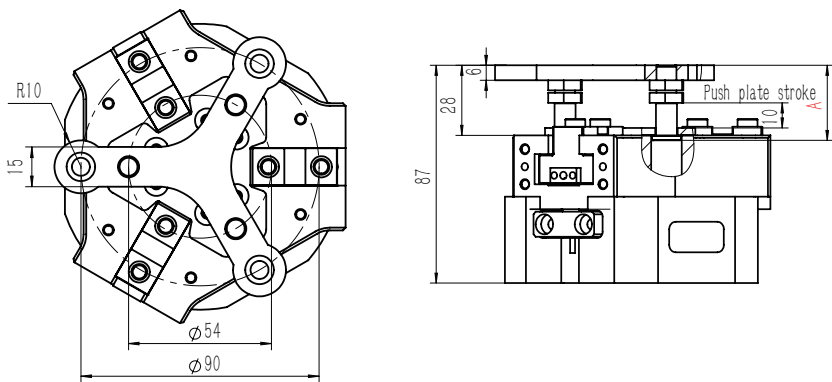
TZ75-119



Bottom Port Dimension (B): Recommended connectingflange size $\varphi 10.5 \pm 1$, seal ring $\varphi 7.5 \times 1.5$.



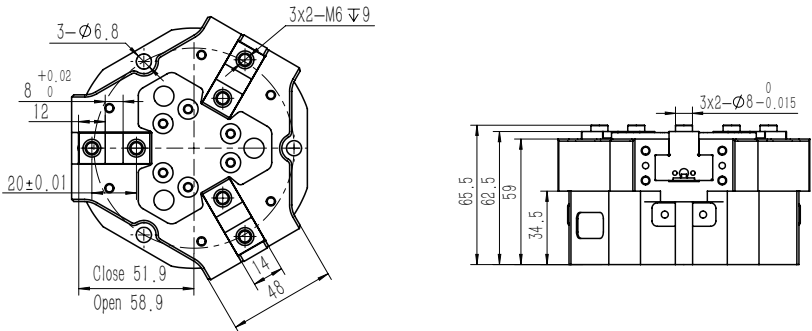
TZ75-119-M/S-C30 Push plate



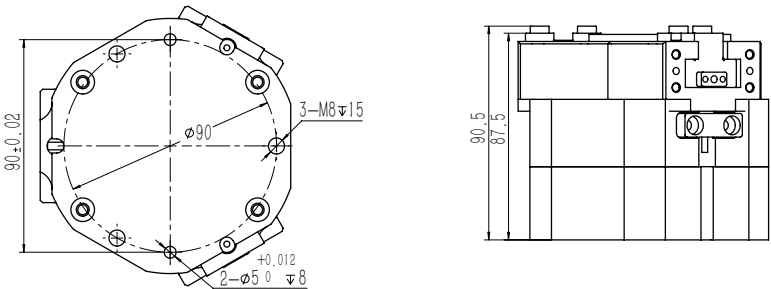
Accessory description:

TZ75 series opening up the pushing interface and offers different optional heights of 30mm and 40mm. Dust cover plate promoted 9mm. Pushing plate floats to provide thrust and the high quality hardened spring provides over 500,000 cycles of service life to ensure its functional reliability under prolonged impact.

TZ75-119-S



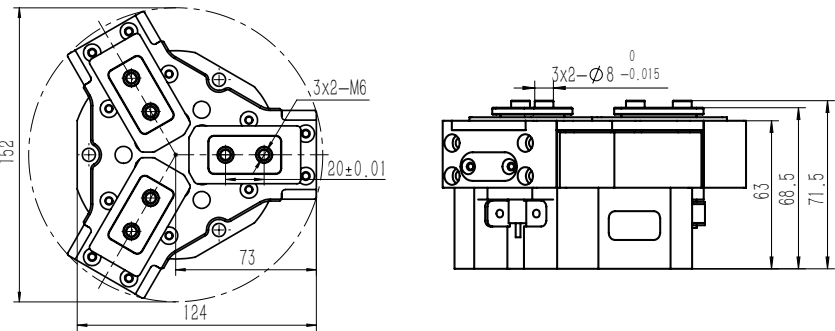
TZ75-119-M/S-NO/NC Self-locking type



Accessory description:

The TZ75 has the S series configuration, with stronger clamping force and shorter working stroke than the standard model. It is able to clamp workpieces quickly and stably, providing customers with a new alternative to the standard model.

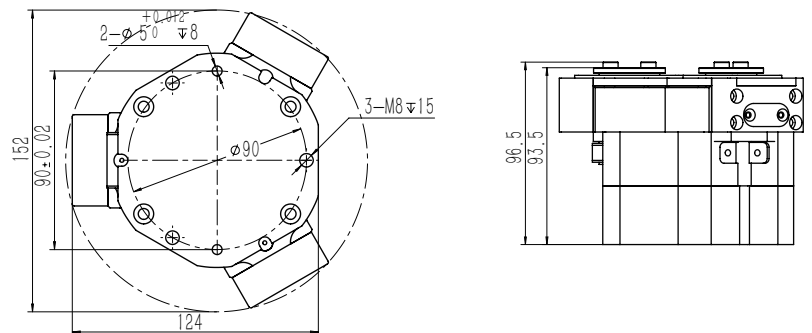
TZ75-119-M/S-P Dust proof type



Accessory description:

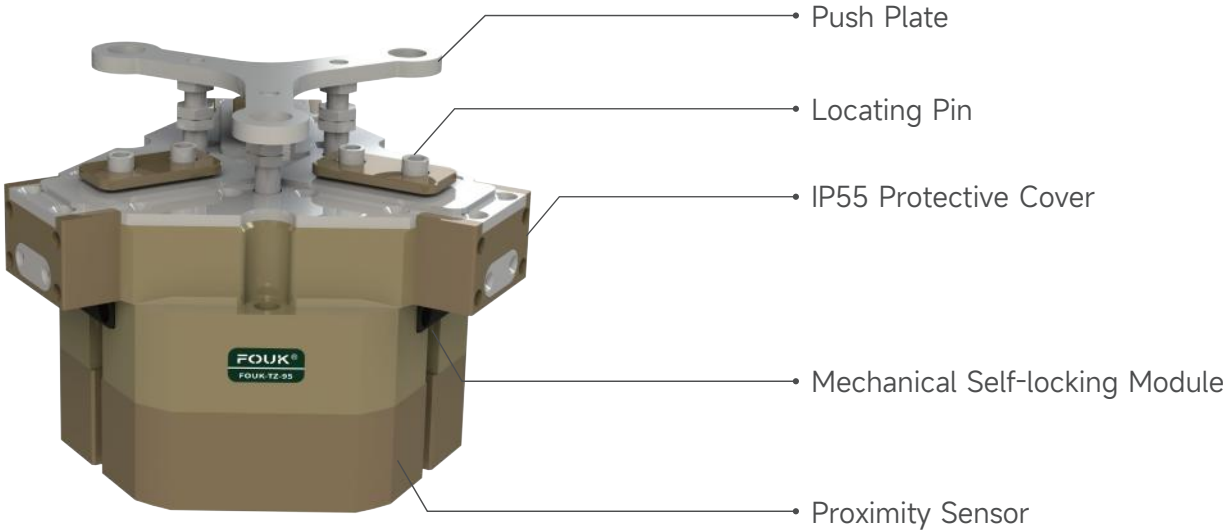
TZ75 series optional open/close self-locking module can maintain the clamping status even in the case of low air pressure or loss of air supply, providing self-locking function and increasing the stability of clamping action at the same time.

TZ75-119-M/S-P-NO/NC Self-locking Dust proof type

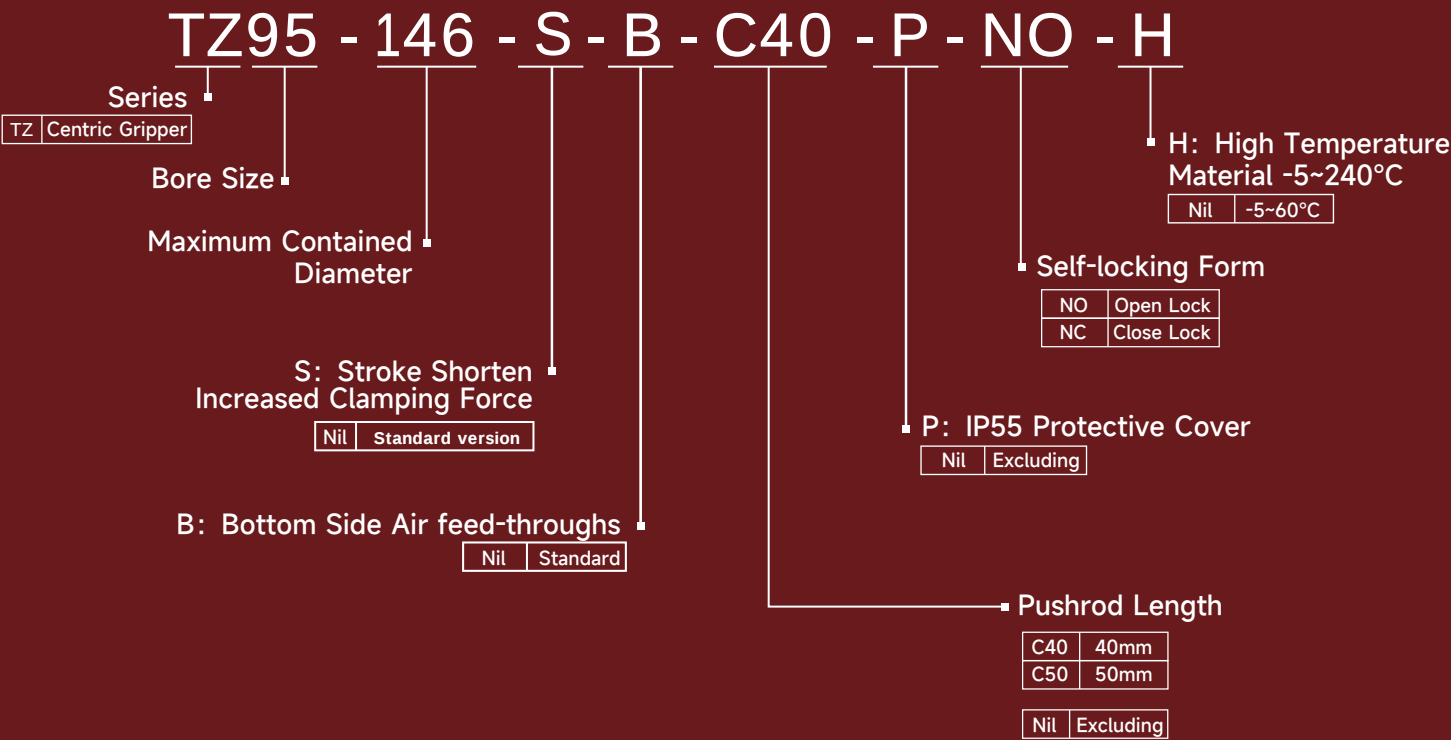


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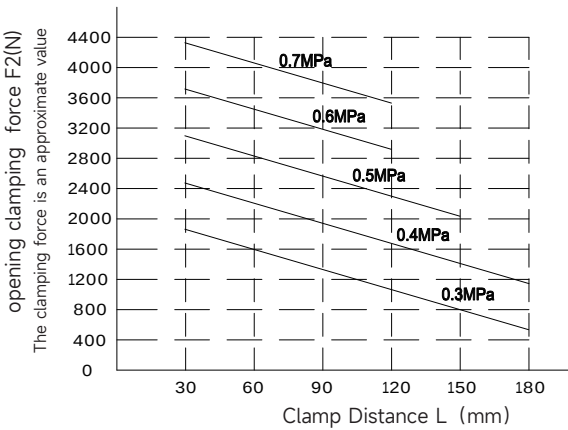
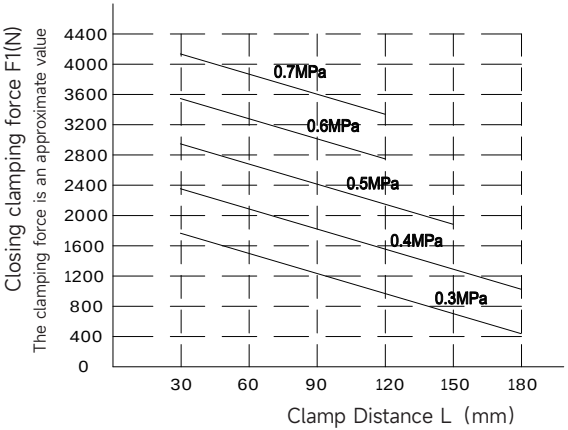
The TZ75 series offers a combination of dust-proof module and self-locking module to meet more diverse application scenarios and customer needs.



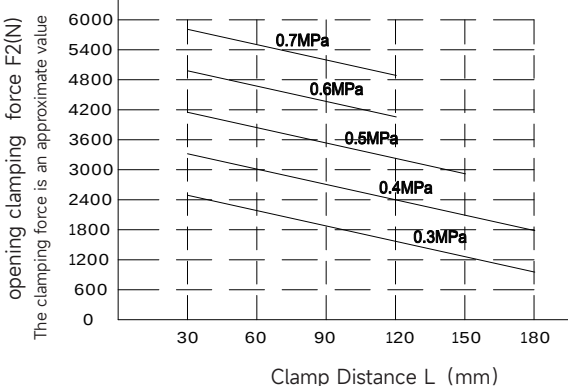
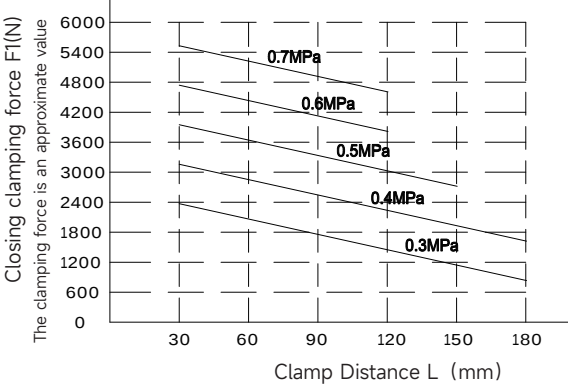
Note: The standard version of the product does not include push plate, IP55 protective cover, mechanical self-locking module, and proximity sensor, which are options.



■ Clamping force TZ95-146



■ Clamping force TZ95-146-S

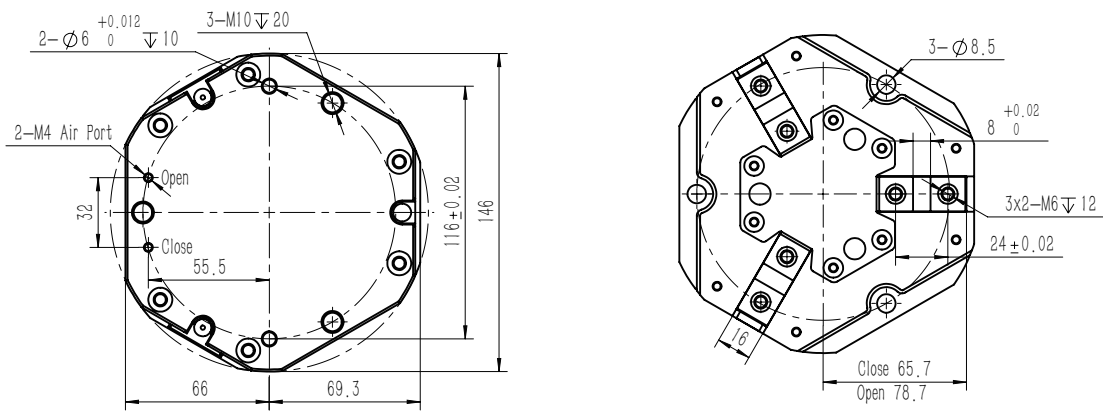


■ Technical Parameter

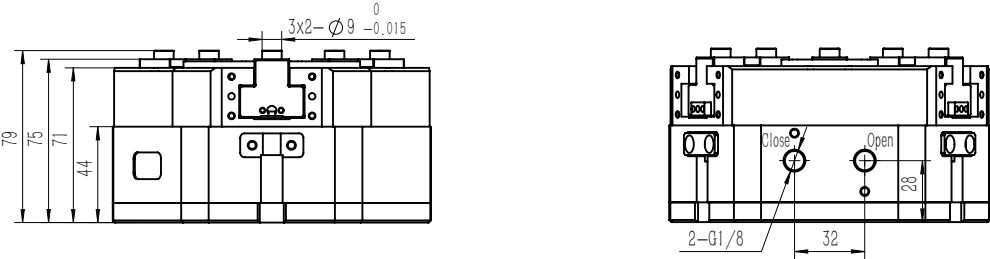
Product properties	TZ95-146	TZ95-146-NO	TZ95-146-NC	TZ95-146-S	TZ95-146-S-NO	TZ95-146-S-NC	Unit
Single stroke	13	13	13	9	9	9	mm
Weight	2.9	4.2	4.1	2.8	4.2	4.1	kg
Max. clamp pistonce	180	180	180	180	180	180	mm
Fitting size	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	
Girpping force: open/close	620*P/590*P	620*P	590*P	830*P/790*P	830*P	790*P	N
Max. locking force		1600	1600		2100	2100	N
Min. locking force		1100	1100		1450	1450	N
Workpiece weight	14	14	14	19	19	19	kg
Continuation max frequency	20	15	15	20	15	15	cpm
Repeat accuracy	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	mm
Air pressure	3~7	4~7	4~7	3~7	4~7	4~7	bar
Ambient temperature	-5~60	-5~60	-5~60	-5~60	-5~60	-5~60	°C
IP grade	45						

P: Air Pressure [bar]

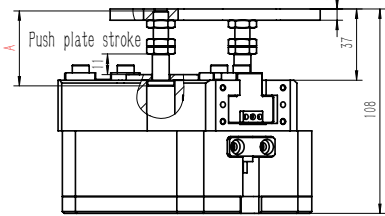
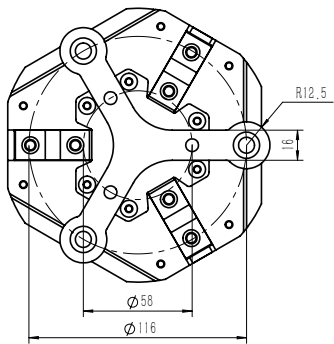
TZ95-146



Bottom Port Dimension (B): Recommended connectingflange size $\phi 8 \nabla 1$,seal ring $\phi 5 \times 1.5$ 。



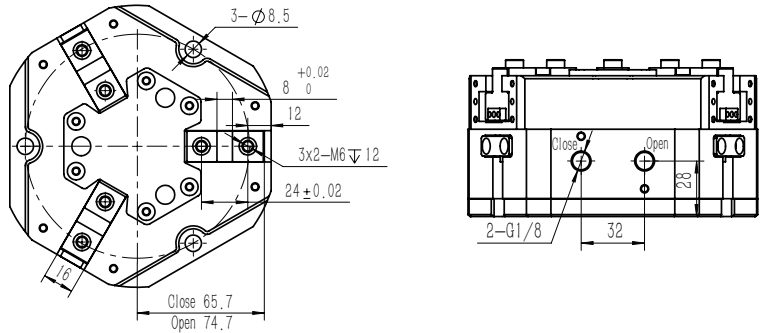
TZ95-146-M/S-C40 Push plate



Accessory description:

TZ95 series opening up the pushing interface and offers different optional heights of 40mm and 50mm. Dust cover plate promoted 10mm. Pushing plate floats to provide thrust and the high quality hardened spring provides over 500,000 cycles of service life to ensure its functional reliability under prolonged impact.

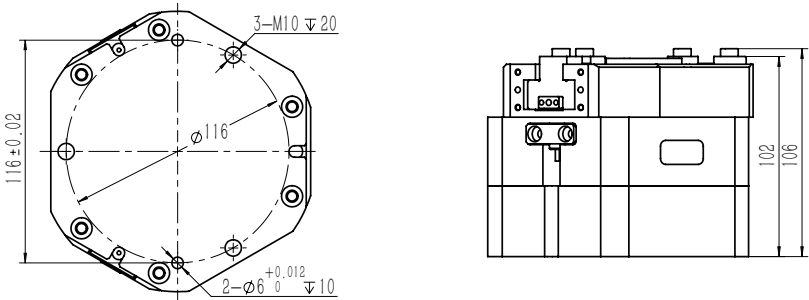
TZ95-146-S



Accessory description:

The TZ95 has the S series configuration, with stronger clamping force and shorter working stroke than the standard model. It is able to clamp workpieces quickly and stably, providing customers with a new alternative to the standard model.

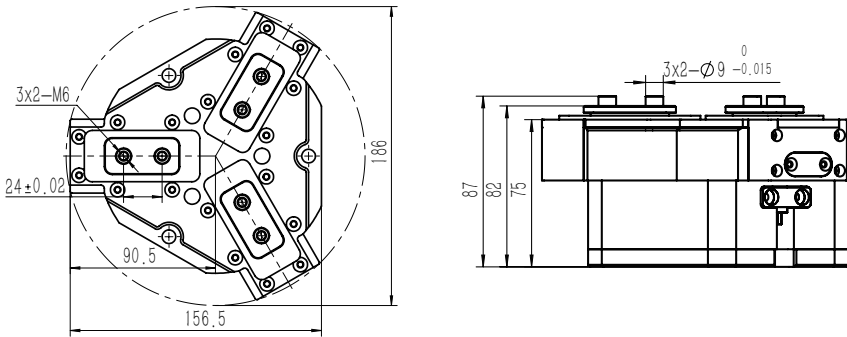
TZ95-146-M/S-NO/NC Self-locking type



Accessory description:

TZ95 series optional open/close self-locking module can maintain the clamping status even in the case of low air pressure or loss of air supply, providing self-locking function and increasing the stability of clamping action at the same time.

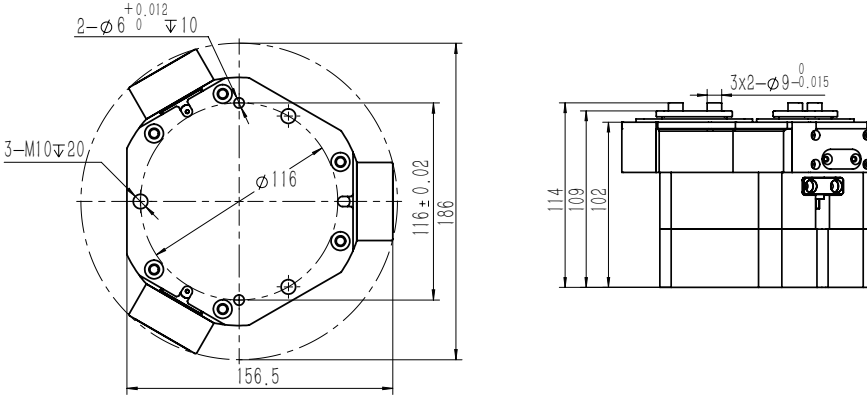
TZ95-146-M/S-P Dust proof type



Accessory description:

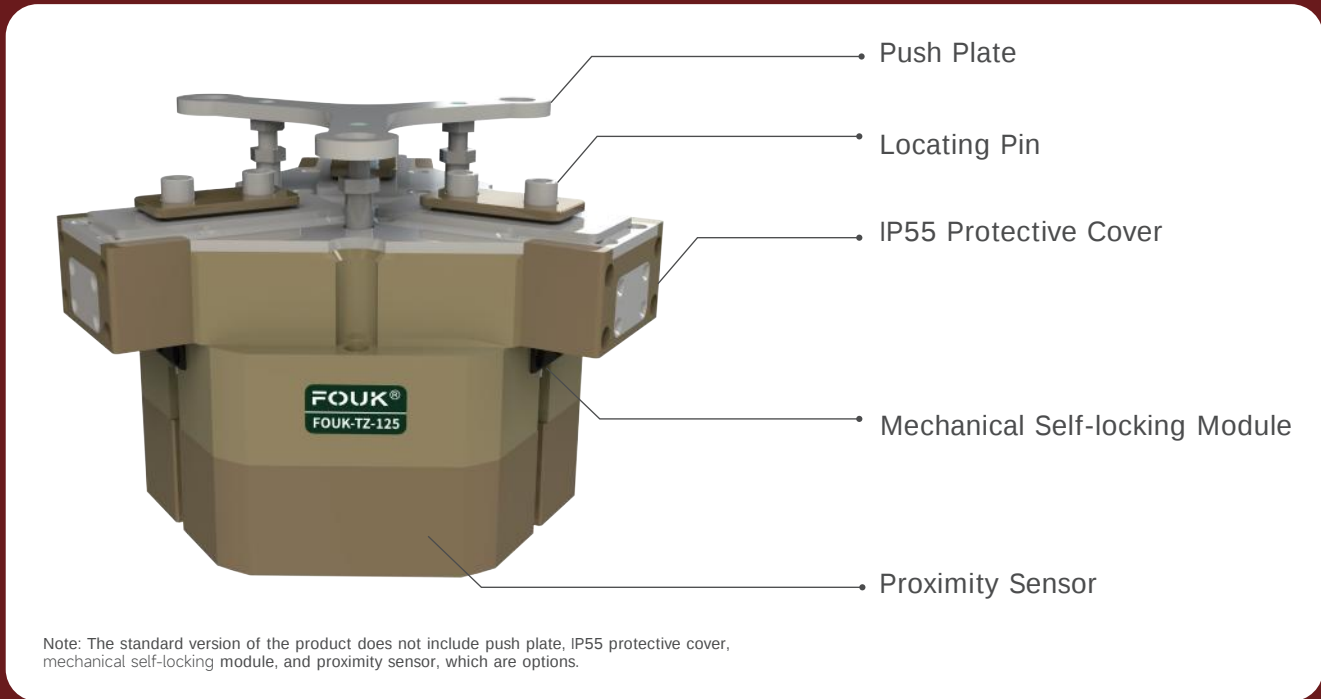
Considering the diverse and complex working conditions of the gripper, the gripper is required to have better dust-proof performance. The TZ95 series is equipped with optional dust-proof unit, and the protection level is upgraded to IP55 to further enhance the performance of the gripper under complex working conditions.

TZ95-146-M/S-P-NO/NC Self-locking Dust proof type

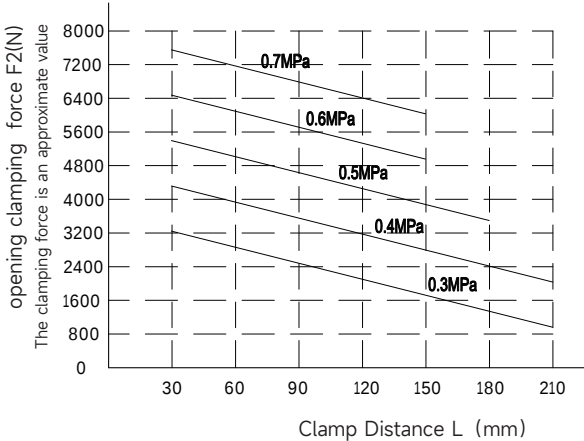
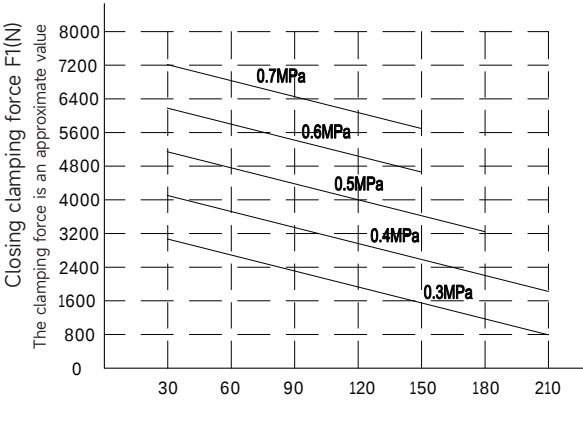


Accessory description:

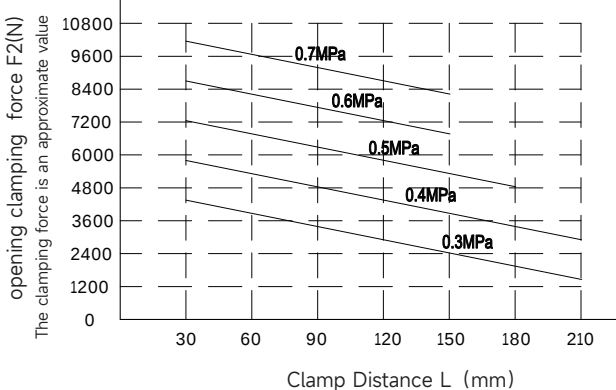
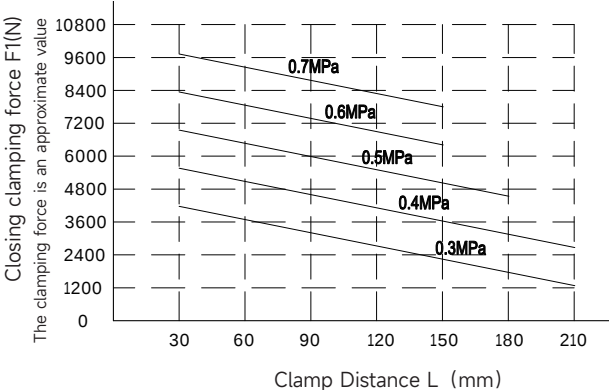
The TZ95 series offers a combination of dust-proof module and self-locking module to meet more diverse application scenarios and customer needs.



Clamping force TZ125-179-M



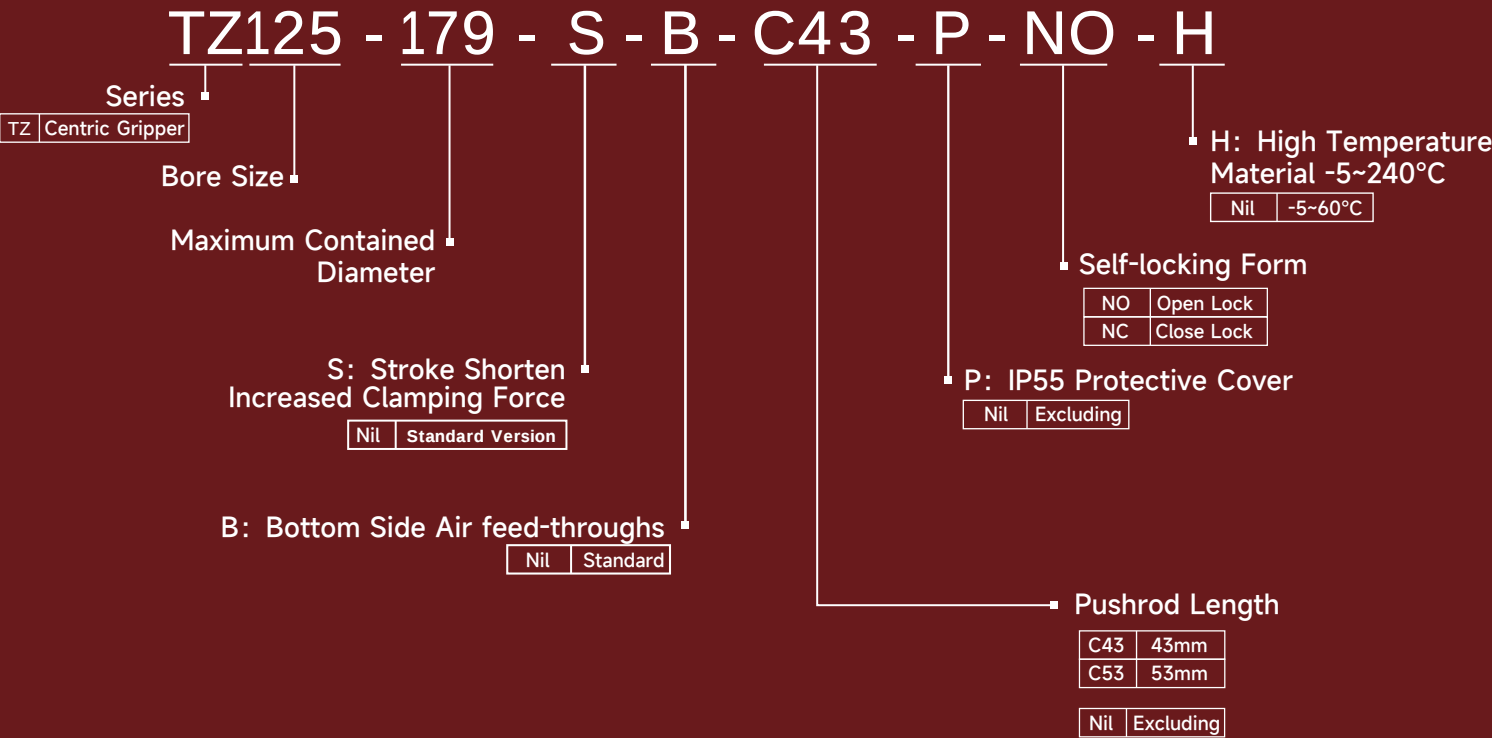
Clamping force TZ125-179-S



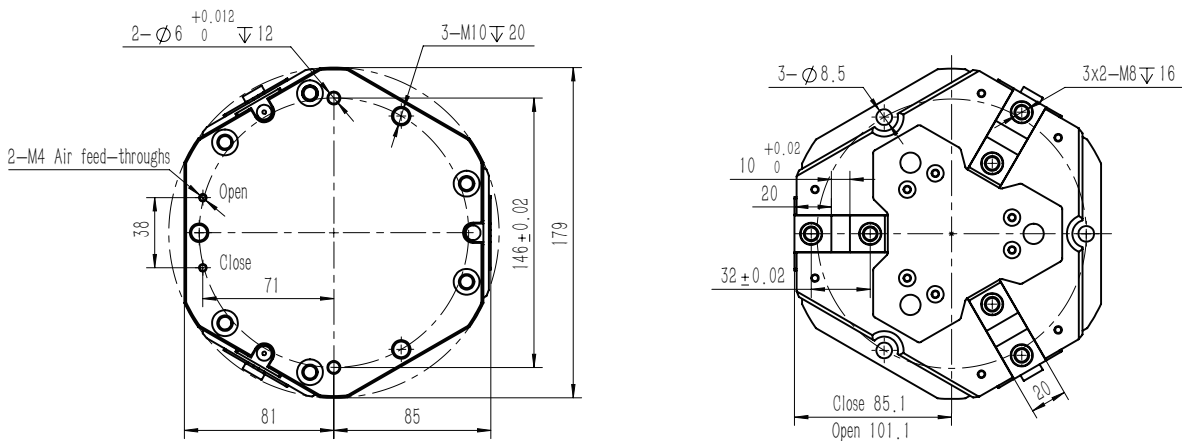
Technical Parameter

Product properties	TZ125-179	TZ125-179-NO	TZ125-179-NC	TZ125-179-S	TZ125-179-S-NO	TZ125-179-S-NC	Unit
Single stroke	16	16	16	11	11	11	mm
Weight	6.8	9.5	9.2	6.6	9.5	9.2	kg
Max. clamp pistance	210	210	210	210	210	210	mm
Fitting size	G1/8	G1/8	G1/8	G1/8	G1/8	G1/8	
Girpping Force: open/close	1080*P/1030*P	1080*P	1030*P	1450*P/1390*P	1450*P	1390*P	N
Max. locking force		2500	2500		3300	3300	N
Min. locking force		1700	1700		2250	2250	N
Workpiece weight	25	25	25	33	33	33	kg
Continuation max frequency	20	15	15	20	15	15	cpm
Repeat accuracy	±0.03	±0.03	±0.03	±0.03	±0.03	±0.03	mm
Air pressure	3~7	4~7	4~7	3~7	4~7	4~7	bar
Ambient temperature	-5~60	-5~60	-5~60	-5~60	-5~60	-5~60	°C
IP grade	45						

P: Air Pressure [bar]

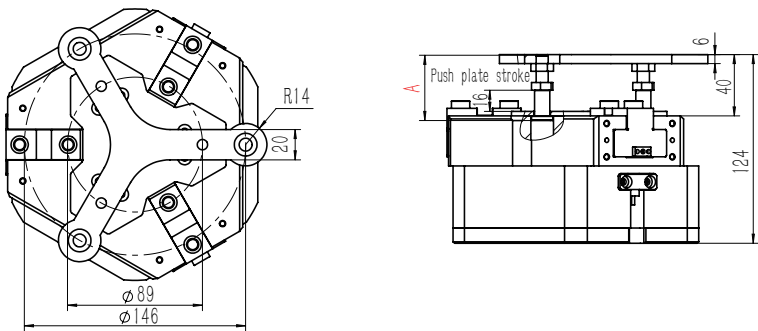


TZ125-179



Bottom Port Dimension (B): Recommended connectingflange size $\phi 8 \nabla 1$, seal ring $\phi 5 \times 1.5$.

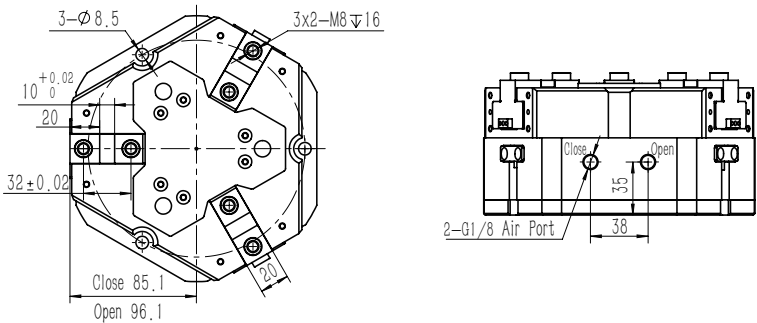
TZ125-179-M/S-C43 Push plate



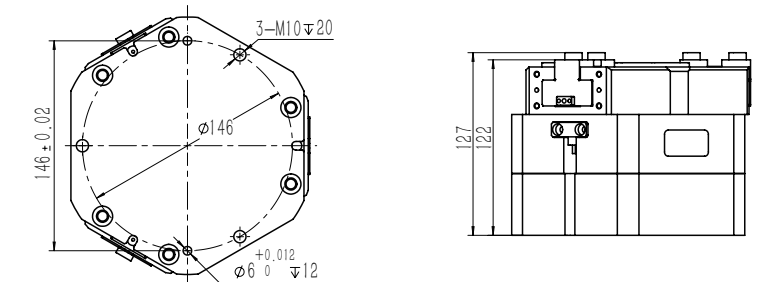
Accessory description:

TZ125 series opening up the pushing interface and offers different optional heights of 43mm and 53mm. Dust cover plate promoted 15mm. Pushing plate floats to provide thrust and the high quality hardened spring provides over 500,000 cycles of service life to ensure its functional reliability under prolonged impact.

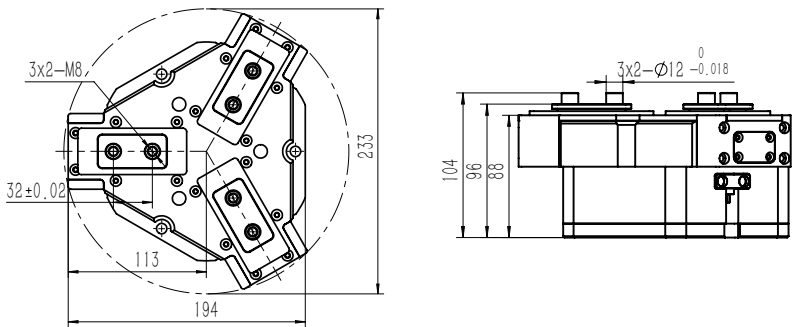
TZ125-179-S



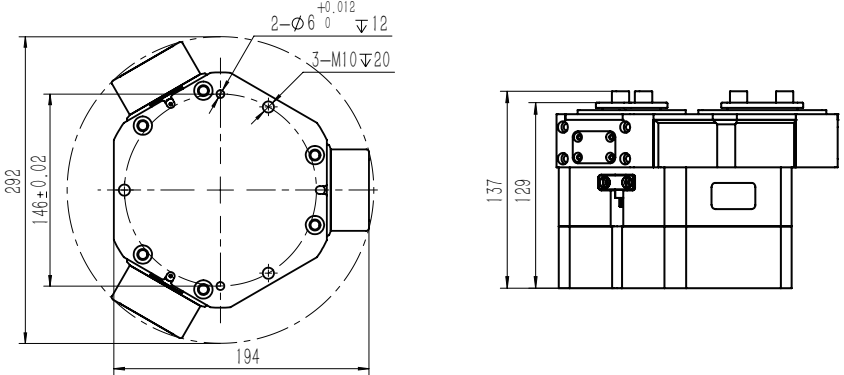
TZ125-179-M/S-NO/NC Self-locking type



TZ125-179-M/S-P Dust proof type



TZ125-179-M/S-P-NO/NC Self-locking Dust proof type



Accessory description:

The TZ125 has the S series configuration, with stronger clamping force and shorter working stroke than the standard model. It is able to clamp workpieces quickly and stably, providing customers with a new alternative to the standard model.

Accessory description:

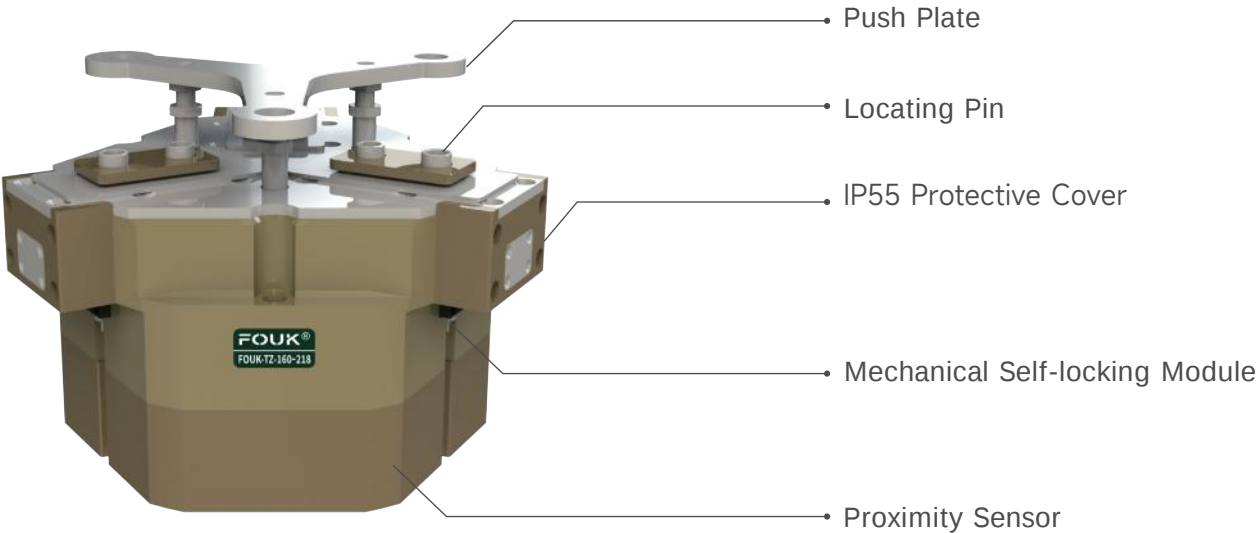
TZ125 series optional open/close self-locking module can maintain the clamping status even in the case of low air pressure or loss of air supply, providing self-locking function and increasing the stability of clamping action at the same time.

Accessory description:

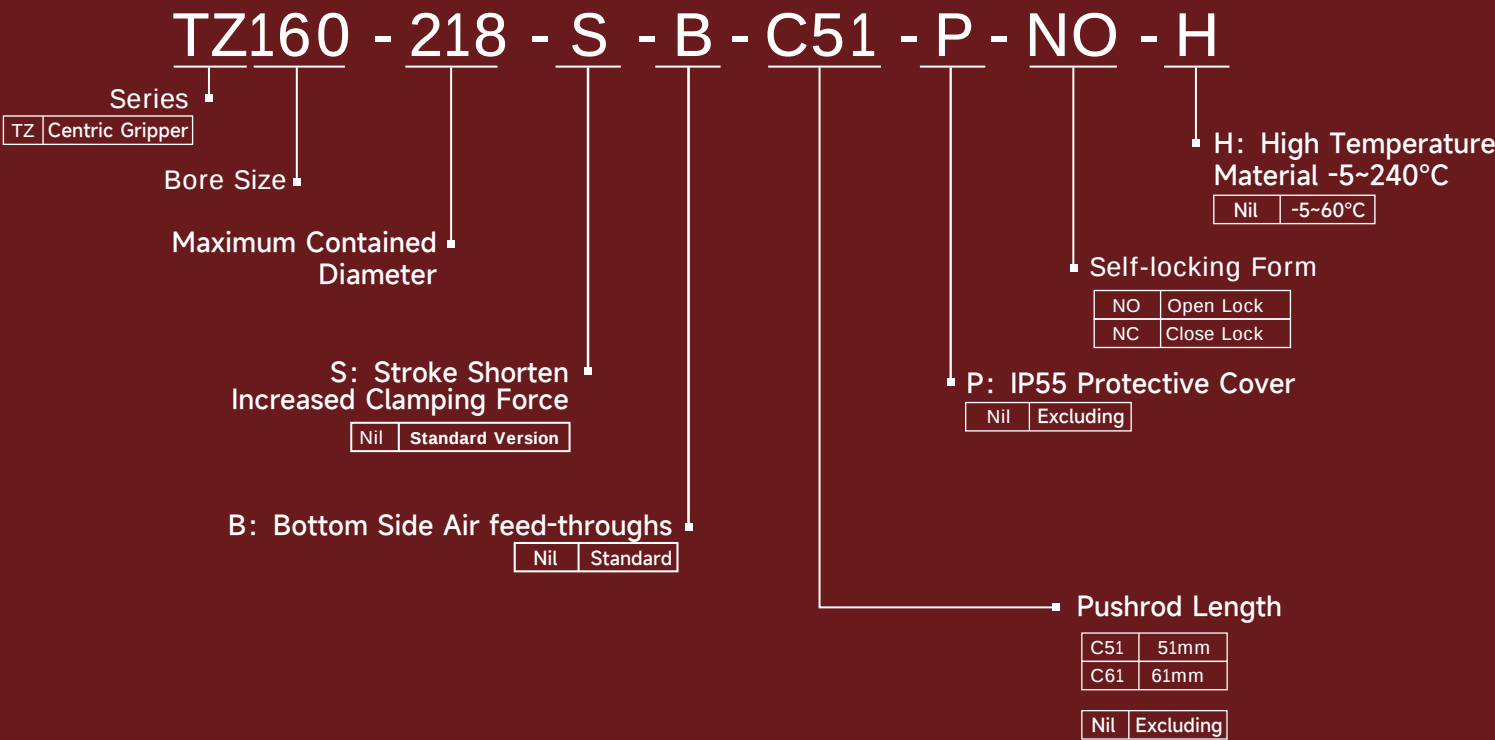
Considering the diverse and complex working conditions of the gripper, the gripper is required to have better dust-proof performance. The TZ125 series is equipped with optional dust-proof unit, and the protection level is upgraded to IP55 to further enhance the performance of the gripper under complex working conditions.

Accessory description:

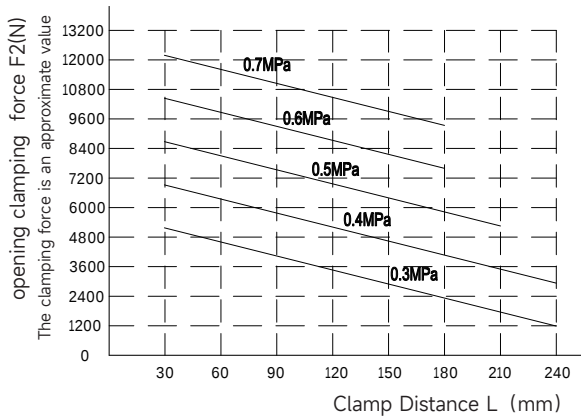
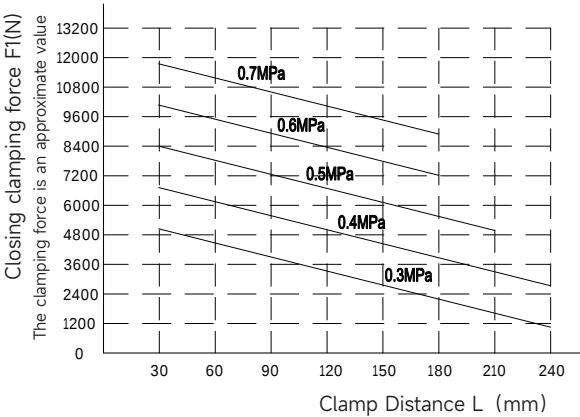
The TZ125 series offers a combination of dust-proof module and self-locking module to meet more diverse application scenarios and customer needs.



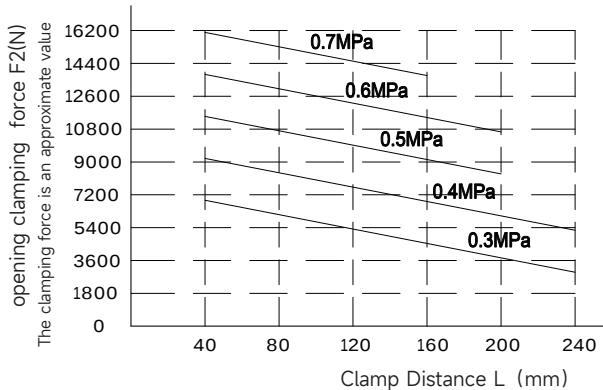
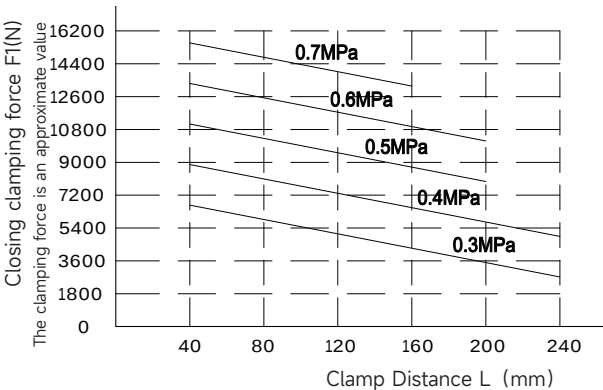
Note: The standard version of the product does not include push plate, IP55 protective cover, mechanical self-locking module, and proximity sensor, which are options.



■ Clamping force TZ160-218-M



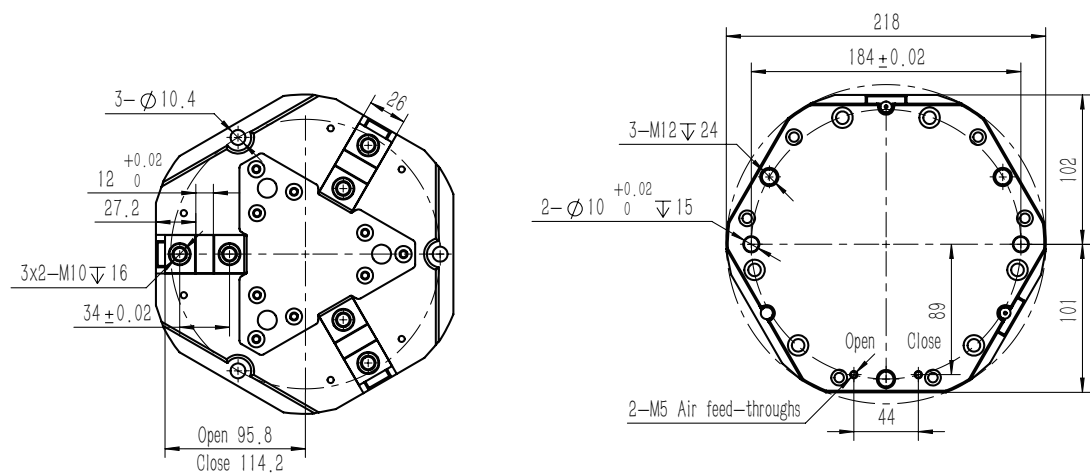
■ Clamping force TZ160-218-S



Product properties	TZ160-218	TZ160-218-NO	TZ160-218-NC	TZ160-218-S	TZ160-218-S-NO	TZ160-218-S-NC	Unit
Single stroke	18	18	18	12.5	12.5	12.5	mm
Weight	8.8	13	12.5	8.6	13	12.5	kg
Max. clamp pistonce	240	240	240	240	240	240	mm
Fitting size	G1/4	G1/4	G1/4	G1/4	G1/4	G1/4	
Girpping force: open/close	1740*P/1680*P	1740*P	1680*P	2300*P/2220*P	2300*P	2220*P	N
Max. locking force		3400	3400		4500	4500	N
Min. locking force		2500	2500		3200	3200	N
Work piece weight	45	45	45	60	60	60	kg
Continuation max frequency	15	10	10	15	10	10	cpm
Repeat accuracy	±0.04	±0.04	±0.04	±0.04	±0.04	±0.04	mm
Air pressure	3~7	4~7	4~7	3~7	4~7	4~7	bar
Ambient temperature	-5~60	-5~60	-5~60	-5~60	-5~60	-5~60	°C
IP grade	45						

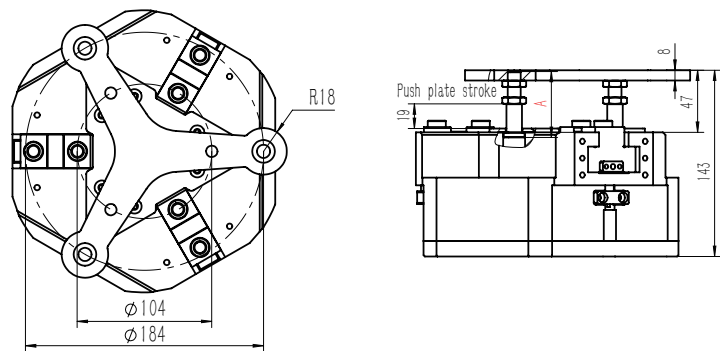
P: Air Pressure [bar]

TZ160-218



Bottom Port Dimension (B): Recommended connecting flange size $\phi 9 \nabla 1$, seal ring $\phi 6 \times 1.5$.

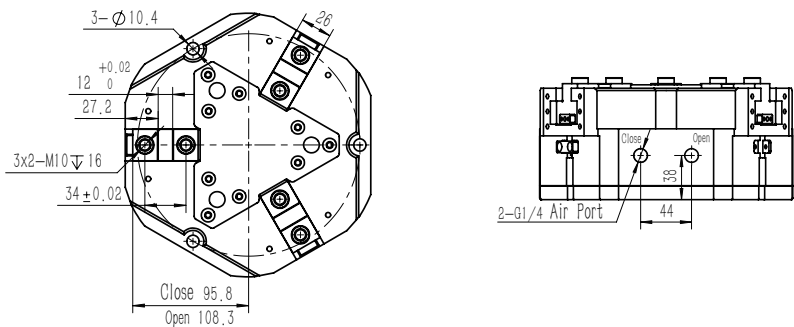
TZ160-218-M/S-C51 Push plate



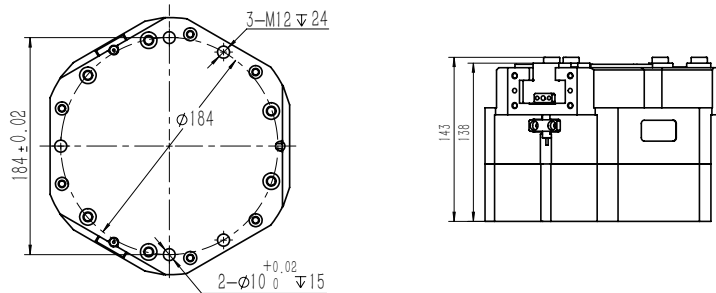
Accessory description:

TZ160 series opening up the pushing interface and offers different optional heights of 51mm and 61mm. Dust cover plate promoted 17mm. Pushing plate floats to provide thrust and the high quality hardened spring provides over 500,000 cycles of service life to ensure its functional reliability under prolonged impact.

TZ160-218-S



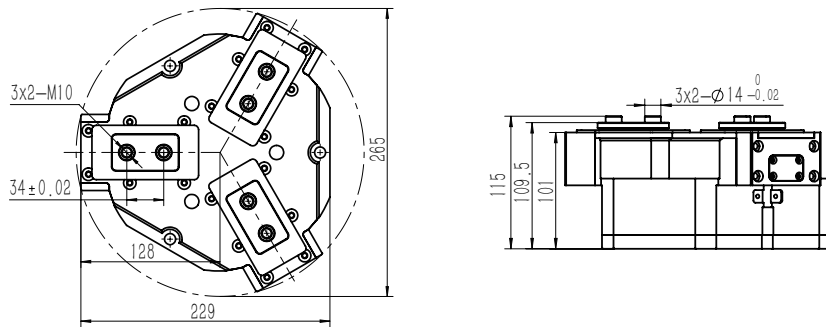
TZ160-218-M/S-NO/NC Self-locking type



Accessory description:

TZ160 series optional open/close self-locking module can maintain the clamping status even in the case of low air pressure or loss of air supply, providing self-locking function and increasing the stability of clamping action at the same time.

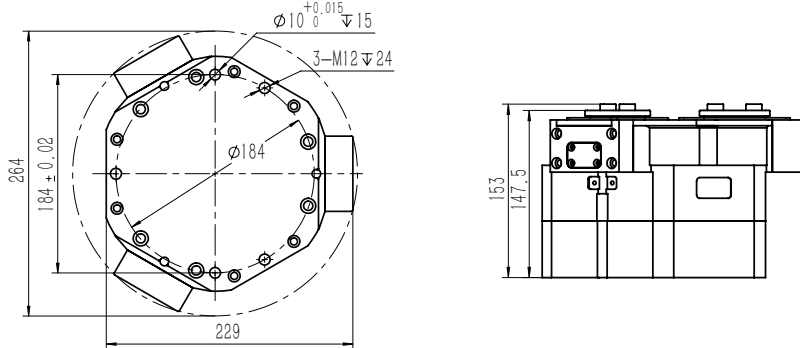
TZ160-218-M/S-P Dust proof type



Accessory description:

Considering the diverse and complex working conditions of the gripper, the gripper is required to have better dust-proof performance. The TZ160 series is equipped with optional dust-proof unit, and the protection level is upgraded to IP55 to further enhance the performance of the gripper under complex working conditions.

TZ160-218-M/S-P-NO/NC Self-locking Dust proof type



Accessory description:

The TZ160 series offers a combination of dust-proof module and self-locking module to meet more diverse application scenarios and customer needs.