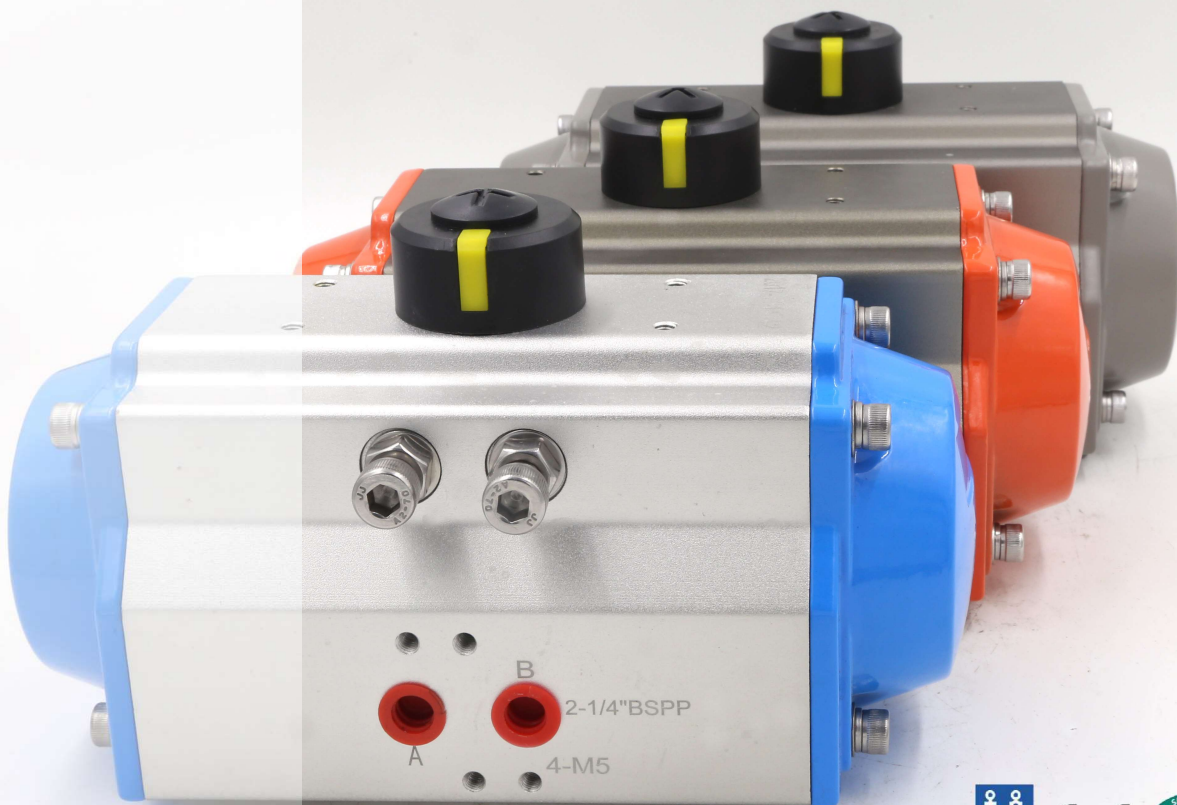


메가텍 자동밸브

MEGATEC

Pneumatic Actuator

AT Series



Company Introduction

메가텍은 하이테크 기업 제조, 마케팅, 연구 및 자동 제어 밸브를 개발에 전념하고 있습니다.

메가텍은 Pneumatic Angle Seat Valve, Pneumatic Actuator, Electric Actuator, Pneumatic Valve, Electric Valve 및 모든 제품을 ISO 9001, CE 등 인증획득 하였습니다.

메가텍은 과학 기술 우선, 품질 기반 테스트 장비를 개선하고 제품 성능을 보장하기 위해 R & D 팀을 구성하였습니다.

제품생산은 ISO 9001 국제 품질 표준 시스템에 획득으로 엄격하게 관리합니다.

CNC 머시닝 센터, 수치 제어 기계 가공 머시닝 및 CAD R & D 및 CIMS 컴퓨터 네트워크 관리 시스템을 갖추고 있습니다.

각 생산 절차는 ISO, DIN, 3A, SMS, JIS 및 GB 표준을 엄격히 준수하여 제품 품질을 보장합니다.

메가텍 제품은 천연 가스, 석유, 제지, 염색, 인쇄, 유제품, 의약품, 화학, 식품, 환경 보호, 수처리, 화장품 등의 분야에 널리 응용됩니다.

메가텍은 항상 유체 제어 장비 제품을 개발 및 제조하는 데 전념하고 있습니다.

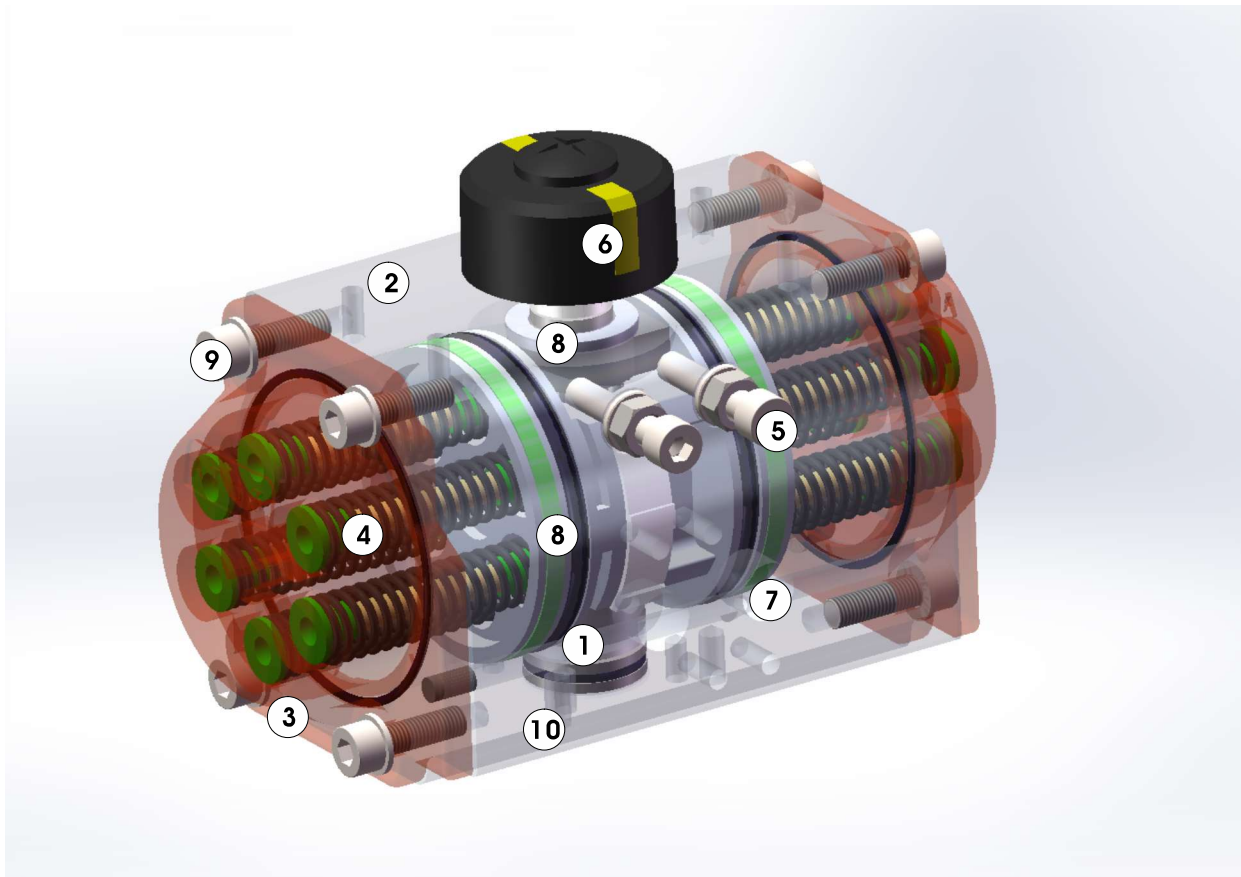
또 국제적인 최첨단 기술에 의거하여 지속적으로 신제품을 출시하고 있습니다.

메가텍은 세계적 수준의 브랜드로 KST KOREA를 구축하기 위해 기술, 가용성, 신뢰성 및 서비스를 중요하게 생각합니다.

메가텍은 시대에 발 맞추어 기술, 생산 및 거래와 통합 된 국제적인 기업으로 만들기 위해 계속 노력하고 있습니다.



ATD / ATS Series Pneumatic Actuator



ATD/ATS new rack and pinion pneumatic actuator by the zhejiang KST company combines the latest technology at home and abroad, through the three-dimensional model of innovation and optimization of CAD design, beautiful shape compact, modern styling; and adopt practical new materials, new processes, so that the product quality, more reliable; more standard selection of more affordable; products fully meet the latest international standards, technical specifications, to meet current and future needs.

- ① Dual piston rack and pinion design of symmetric structures, rapid and smooth movement, high precision, high output power by a simple change in the direction of the piston assembly positions available anti-rotation.
- ② High quality extruded aluminum alloy cylinder block, by precision machining the hole and the external surface of hard anodized (anodic oxidation under special circumstances + Teflon coating), longer life, low friction coefficient.
- ③ Integrated design, all the double acting and single-function actuator models have the same cylinder and end caps, easily removed by installing a spring or spring to change the mode of action.

④ Combined pre-spring break Hean whole group, whether in the assembly process or use on-site in both convenient and safe to install or change the

⑤ The external side of the two single independent adjustment screw has been number of springs. installed in the valve for the actuator is precisely to facilitate, control valve open and valve closed position, For the whole trip conditioned office is also configured in two cover a longer adjustment screws.

⑥ Multi-position indicator, on-site visual instructions, consistent with VDI/VDE3845, NAMUR standard slot, the output can be installed and all the accessories, such as limit switch box, electric positioner, position sensor (Pepperl and Fuchs, Turck).

⑦ Gas source interface line NAMURstandard, direct safety plaquesNAMUR standard solenoid valve.

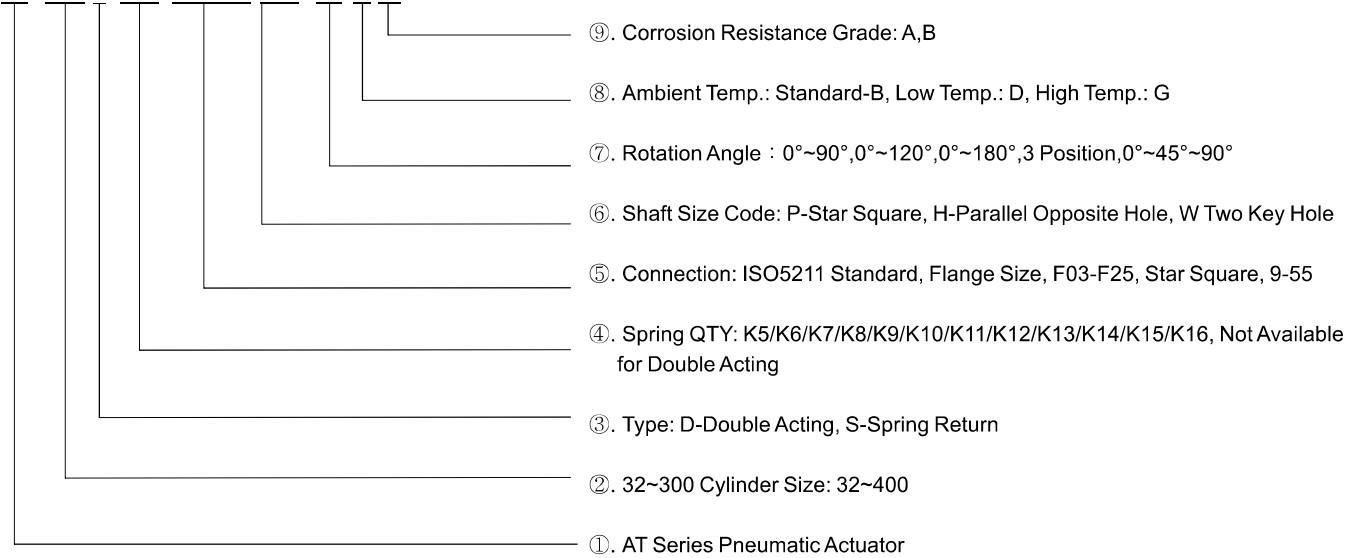
⑧ Rack on the back of the composite bearing and piston guide ring and the output shaft bearings to prevent metal on metal friction and increasing lubrication, so a low friction, long life.

⑨ All fasteners are stainless steel, long-term corrosion resistance.

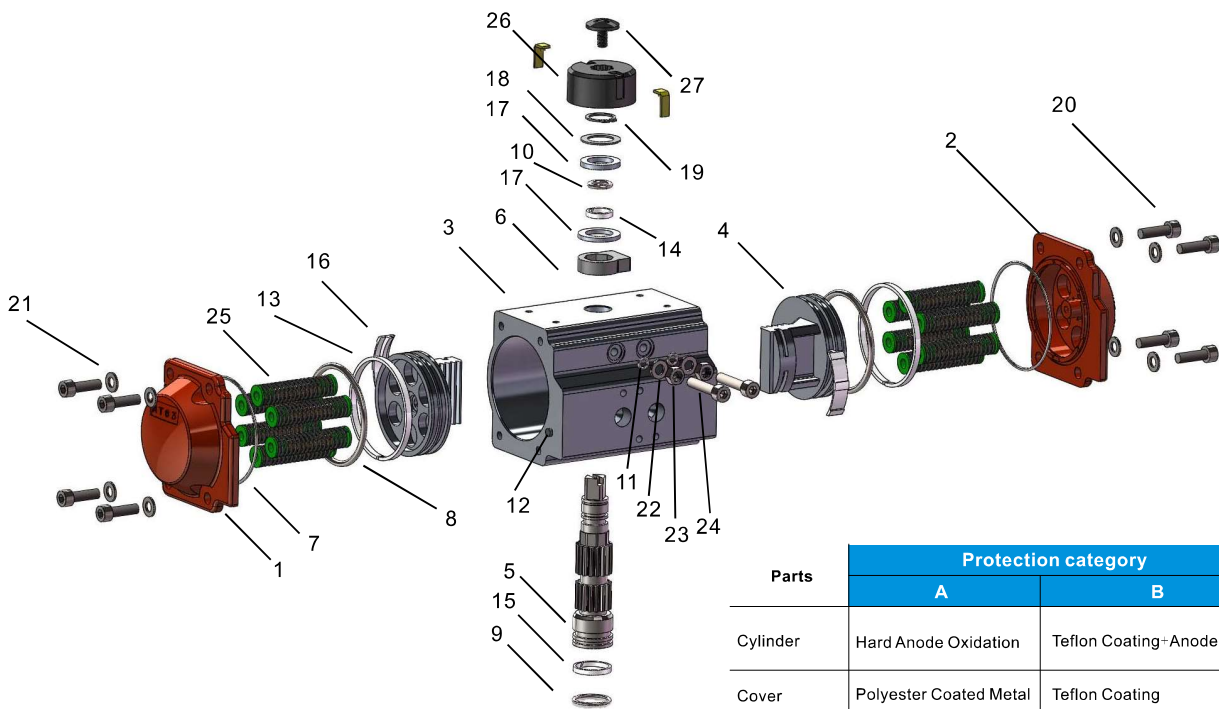
⑩ Connection part of the line with new international standard ISO5211, DIN3337 (F03-F25) makes products with interchangeable, versatile.

Model Preparation

AT-160 S-K10 F10/12 P27-90-B-A



Components And Materials, Corrosion

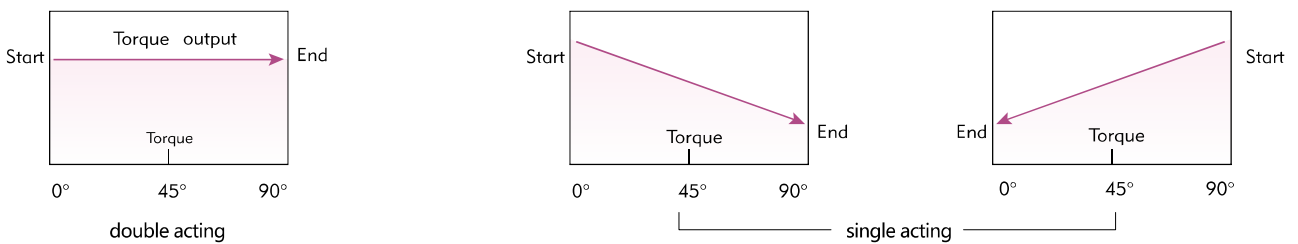


Parts	Protection category	
	A	B
Cylinder	Hard Anode Oxidation	Teflon Coating+Anode Sclerosis
Cover	Polyester Coated Metal	Teflon Coating
Output shaft	Carbon Steel Electroless Nickel Plating	Electroless Nickel Plating Or Stainless Steel
Use Occasion	General Situation	General Occasions Or Low Concentrations Of Acidic Environment

Pneumatic Actuator AT Series

Part Number	Each number	Part Name	Standard Materials	Selected Materials
01	1	Left Cover	Aluminum Die Casting	Stainless steel
02	1	Right Cover	Aluminum Die Casting	Stainless steel
03	1	body	Aluminum extrusion	Stainless steel
04	2	Piston	Aluminum Die Casting	---
05	1	Output shaft	Carbon Steel	Stainless steel
06	1	Cam adjustment	Stainless steel	---
07 *	2	O-ring (cover)	NBR	Fluorine or silicone rubber
08 *	2	O-ring (Piston)	NBR	Fluorine or silicone rubber
09 *	1	O-ring (output shaft bottom)	NBR	Fluorine or silicone rubber
10 *	1	O-ring (output shaft at the top)	NBR	Fluorine or silicone rubber
11 *	2	O-ring (adjusting screw)	NBR	Fluorine or silicone rubber
12 *	2	Plug (Cylinder)	NBR	Fluorine or silicone rubber
13 *	2	Bearing (Piston)	POM	---
14 *	1	Bearing (output shaft at the top)	POM	---
15 *	1	Bearing (output shaft bottom)	POM	---
16 *	1	Guide with Bearing (Piston back)	POM	---
17 *	2	Thrust bearings (output shaft)	POM	---
18	2	Gasket (output shaft)	Stainless steel	---
19	1	Flexible file ring	Spring steel	---
20	8	Cover bolt	Stainless steel	---
21	8	Cover Gasket	Stainless steel	---
22	2	Gasket	Stainless steel	---
23	2	Nut	Stainless steel	---
24	2	Adjustment bolt	Stainless steel	---
25	5-16	Spring Components	Alloy spring steel	---
26	1	Position indicator	POM	---
27	1	Screw of indicator	POM	---

Torque Diagram



Double Acting Operation

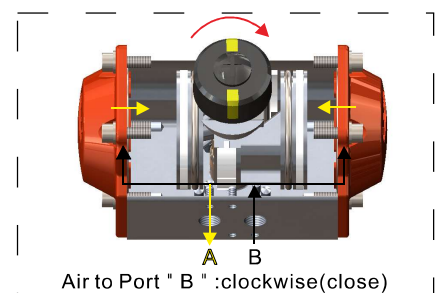
Selection of double acting actuators

The suggested safety factor for double acting actuators under normal working conditions is 20%-30%

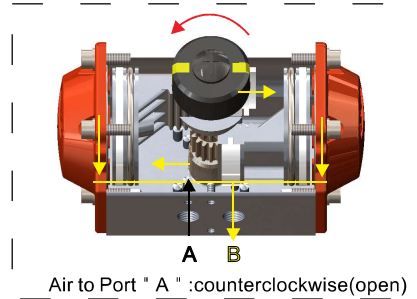
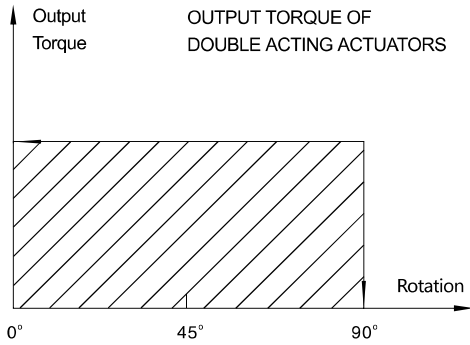
Example:

- The torque needed by valve=100 N.m
- The torque considered safety factor $100 \times (1+30\%) = 130 \text{ N.m}$
- Air Supply=5 Bar

According to double acting torque table, we can choose the minimum model is AT-125.



Pneumatic Actuator AT Series



* Pistons must be inverted to reverse actuator rotation

Spring Return Operation Diagram

Selection of Spring Return Actuator

Suggested safety factor for spring return actuators under normal working condition is 30%-50%

For Example:

Required valve torque: 100N.m.

Safety Torque: $100 \times 1.3 = 130\text{N.m}$.

According to output torque table of spring return actuator, model AT145SK10 can be selected

Torque of AT145 is as following:

Air to Open $0^\circ = 324\text{N.m}$.

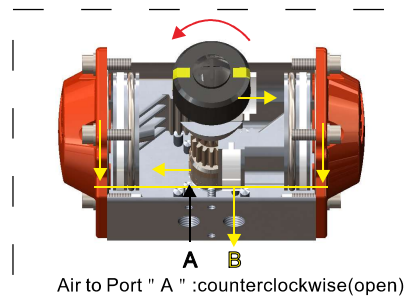
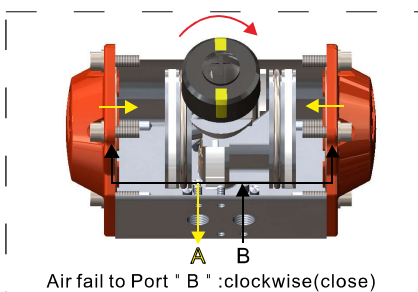
End to Open $90^\circ = 212\text{N.m}$.

Spring to Close $0^\circ = 197\text{N.m}$.

End to Close $90^\circ = 310\text{N.m}$.

All output torque is larger than needed.

Note: Air supply through port B will not affect the output torque of actuator during spring return. On the contrary, it will help spring return.



* Spring force makes the actuator clockwise when the air is exhausted at port " A "

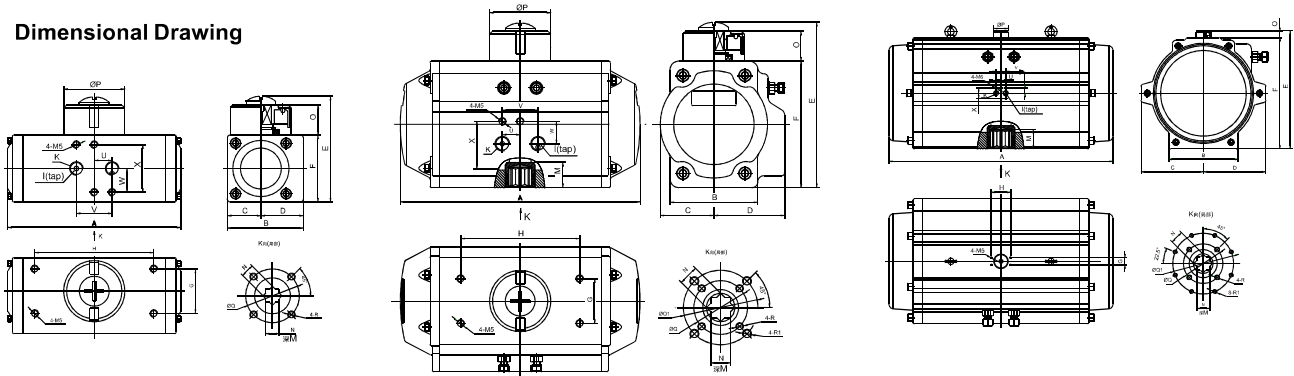
* When air fail to counterclockwise is required, the pistons must be inverted

Pneumatic Actuator AT Series

Double Acting Actuator Output Torque(Nm)

Model	Air Supply Pressure(Bar)									
	2.5	3	3.5	4	4.5	5	5.5	6	7	8
AT-32D	3.8	4.5	5.3	6.0	6.8	7.5	8.3	9.0	10.5	12.0
AT-50D	8.3	10.0	11.6	13.3	15.0	16.6	18.3	20.0	23.3	26.6
AT-63D	14.6	17.6	20.5	23.4	26.4	29.3	32.2	35.2	41.0	47.0
AT-75D	29.0	35.0	40.7	46.5	52.3	58.1	64.0	69.7	81.4	93.0
AT-88D	45.7	55.0	64.0	73.2	82.3	91.4	101	110	128	146
AT-100D	66.4	79.7	93.0	106	120	133	146	159	186	213
AT-115D	107	129	150	172	193	215	236	258	301	344
AT-125D	138	166	194	221	249	277	304	332	387	443
AT-145D	217	261	304	348	391	434	478	521	608	695
AT-160D	283	340	397	453	510	577	623	680	793	907
AT-190D	533	640	746	853	959	1066	1173	1279	1492	1706
AT-210D	651	781	911	1042	1172	1302	1432	1562	1823	2083
AT-240D	957	1148	1339	1530	1722	1913	2104	2296	2678	3061
AT-270D	1452	1743	2033	2324	2614	2905	3195	3486	4067	4648
AT-300D	1993	2391	2790	3188	3587	3985	4384	4782	5579	6376
AT-350D	2983	3580	4176	4773	5369	5966	6563	7159	8352	9546
AT-400D	4250	5100	5950	6800	7650	8500	9350	10200	11900	13600

Dimensional Drawing



AT-32

AT-50,AT-63,AT-75,AT-88,AT-100,AT-115,AT-125,AT-145
AT-160,AT-190,AT-210,AT-240,AT-270,AT-300,AT-350

AT-400

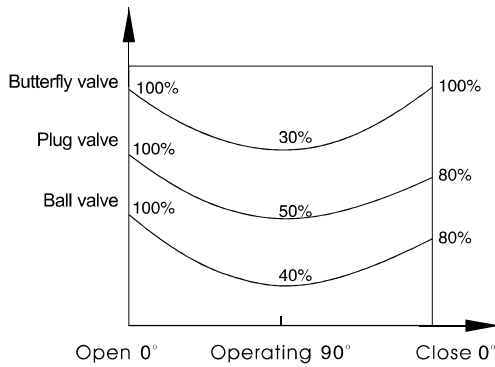
Dimension

Unit (mm)

Model	FLANGE L(ISO5211)		A	B	C	D	E	F	G	H	I	K	O	P	U	V	W	X
	Q/Q1	R/R1																
AT-32	F03	M5	118	51	22.5	28.5	69	45	30	80	PF	1/8"	20	42	12	24	16	32
	Ø36	10/9																
AT-50	F03/F05	M5/M6	146	47	29	41.5	93	69	30	80	PF	1/4"	20	42	12	24	16	32
	Ø36/Ø50	13/11																
AT-63	F03/F05	M5/M6	163	59	36	47.5	111	85	30	80	PF	1/4"	20	42	12	24	16	32
	Ø36/Ø50	16/14																
AT-75	F05/F07	M6/M8	214	68	43	51	128	102	30	80	PF	1/4"	20	42	12	24	16	32
	Ø50/Ø70	19/17																
AT-88	F05/F07	M6/M8	252	68	49.5	55.5	141	115	30	80	PF	1/4"	20	42	12	24	16	32
	Ø50/Ø70	20/17																
AT-100	F07/F10	M8/M10	270	95	56	64	153	127	30	80	PF	1/4"	20	42	12	24	16	32
	Ø70/Ø102	24/22																
AT-115	F07/F10	M8/M10	316	97	64.5	74.5	180	145	30	80	PF	1/4"	30	62	12	24	16	32
	Ø70/Ø102	24/22																
AT-125	F07/F10	M8/M10	354	97	69	78.5	193	157	30	80	PF	1/4"	30	62	12	24	16	32
	Ø70/Ø102	29/27																
AT-145	F10/F12	M10/M12	418	115	80	87	214	178	30	80/130	PF	1/4"	30	62	12	24	16	32
	Ø102/Ø125	30/27																
AT-160	F10/F12	M10/M12	450	118	89	104	236	200	30	80/130	PF	1/4"	30	80	12	24	16	32
	Ø102/Ø125	30/27																
AT-190	F14	M16	552	130	103	103	268	231	30	80/130	PF	1/4"	30	80	12	24	16	32
	Ø140	40/36																
AT-210	F14	M16	556	130	113	113	293	257	30	130	PF	1/4"	30	80	12	24	16	32
	Ø140	40/36																
AT-240	F16	M20	630	160	130	130	328	292	30	130	PF	1/4"	30	80	12	24	16	32
	Ø165	50/46																
AT-270	F16	M20	750	160	147	147	367	331	30	130	PF	1/2"	30	80	20	40	22.5	45
	Ø165	50/46																
AT-300	F16	M20	772	180	161	172	390	354	30	130	PF	1/2"	30	90	20	40	22.5	45
	Ø165	50/46																
AT-350	F16/F25	M20/8-M16	860	270	190	190	346	410	30	130	PF	1/2"	30	90	20	40	22.5	45
	Ø165/Ø254	50/46																
AT-400	F16/F25	M20/8-M16	938	291	262	262	502	466	30	130	PF	1/2"	30	90	20	40	22.5	45
	Ø165/Ø254	72/55																

Sizing Information And How To Order

Sizing information and How to order



For Example:

Max. Butterfly Valve Torque: 80N.m.

Open Torque $80 \times 30\% = 24\text{N.m.}$

Air Pressure: 6 bar

We can choose AT115S

Air to Open $0^\circ = 159\text{N.m.} > 24\text{N.m.}$

End to Open $90^\circ = 101\text{N.m.} > 24\text{N.m.}$

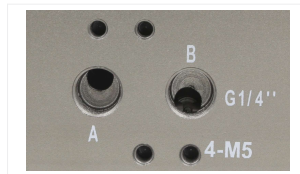
Spring to Close $90^\circ = 157\text{N.m.} > 24\text{N.m.}$

End to Close $0^\circ = 98\text{N.m.} > 80\text{N.m.}$

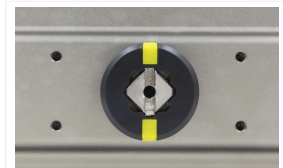
Figures above show normal opening of butterfly valve can be satisfied.

Operating type (Double acting and spring return)

Air supply connection is designed in accordance with NAMUR Standard to install solenoid valves.



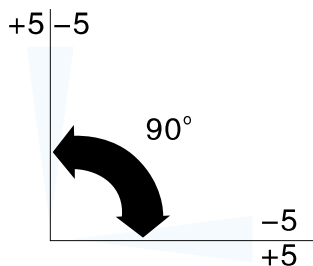
The Namur drive pinion and the Namur top mounting connection permit direct installation of accessories such as limitswitch box and positioner.



Bottom mounting connection is designed in accordance with ISO5211, DIN3337 standards for direct mounting with valve gear boxes or mounting brackets.



Operating conditions:



1. Operating media

Dry or lubricated air, or the non-corrosive gases

The maximum particle diameter must less than $30 \mu\text{m}$

2. Air supply pressure

The minimum supply pressure is 2.5 Bar

The maximum supply pressure is 8 Bar

3. Operating temperature

Standard: $-20^\circ\text{C} \sim +80^\circ\text{C}$

Low temperature: $-35^\circ\text{C} \sim +80^\circ\text{C}$

High temperature: $-15^\circ\text{C} \sim +150^\circ\text{C}$

4. Travel adjustment

Have adjustment range of $\pm 5^\circ$ for the rotation at 0° and 90°

5. Application

Either indoor or outdoor

Air Consumption

Air Consumption

Model	Max. Pressure	Rotation Angle	Temp.	Lap No. For Each 1 Degree Stroke	Diameter	Cylinder Volume Close	Cylinder Volume Open	Open/Close Time Close	Open/Close Time Open	Weight	
AT-50S	Lubrication or dry of compressed air 8bar	(0°-90°) ± 5° or full itinerary 0°-90°	B (normal) NBR O-ring -20~+80°C G(High Temperature) Viton O-ring -15~+150°C D(Low Temperature) Silicone O-ring -40~+80°C	1/6	50	0.1	0.2	DA 0.6 SR 2.0	DA 0.6 SR 0.5	DA 1.10 SR 1.15	0.010
AT-63S				1/6	63	0.2	0.3	DA 0.7 SR 2.0	DA 0.7 SR 1.0	DA 1.62 SR 1.80	0.015
AT-75S				1/5	75	0.3	0.5	DA 0.8 SR 2.0	DA 0.7 SR 1.0	DA 2.75 SR 3.15	0.036
AT-88S				1/5	88	0.5	0.8	DA 0.9 SR 2.5	DA 0.8 SR 1.0	DA 3.80 SR 4.40	0.046
AT-100S				1/5	100	0.7	1.1	DA 1.0 SR 3.0	DA 1.0 SR 1.0	DA 5.20 SR 5.95	0.050
AT-115S				1/4	115	1.2	1.8	DA 1.5 SR 3.0	DA 1.5 SR 1.0	DA 7.85 SR 9.05	0.094
AT-125S				1/4	125	1.5	2.3	DA 2.0 SR 4.0	DA 2.0 SR 1.0	DA 10.00 SR 12.00	0.150
AT-145S				1/4	145	2.4	3.8	DA 2.5 SR 4.0	DA 2.5 SR 1.0	DA 14.70 SR 17.20	0.200
AT-160S				1/4	160	3.1	4.9	DA 4.0 SR 4.0	DA 3.0 SR 1.5	DA 20.85 SR 24.45	0.300
AT-190S				1/4	190	4.5	7.3	DA 5.0 SR 5.0	DA 4.0 SR 3.0	DA 31.05 SR 36.80	0.479
AT-210S				1/4	210	6.8	11.2	DA 5.0 SR 6.0	DA 5.0 SR 3.0	DA 39.00 SR 45.50	0.500
AT-240S				1/4	240	10	15.2	DA 6.0 SR 12	DA 6.0 SR 4.0	DA 53.00 SR 64.00	0.917
AT-270S				1/4	270	14.5	21.4	DA 8.0 SR 15	DA 8.0 SR 6.0	DA 76.00 SR 95.20	1.600
AT-300S				1/4	300	23.8	29.7	DA 12 SR 18	DA 12 SR 8.0	DA 100.0 SR 128.2	2.350
AT-350S				1/4	350	35.1	46	DA 14 SR 20	DA 14 SR 10	DA 186.0 SR 216.0	2.501
AT-400S				1/4	400	52.6	56	DA 15 SR 25	DA 15 SR 12	DA 243.0 SR 279.0	3.001

Air consumption is dependent on air supply pressure, open-close stroke, volume and motion times, which is calculated as following:

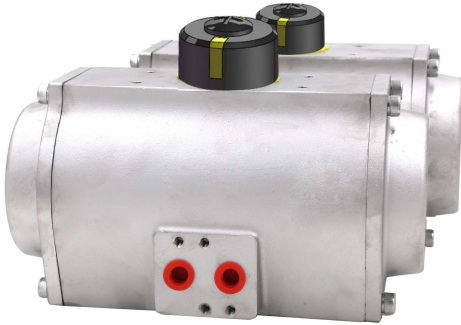
$$L/Min = \text{Air Volume (Opening Volume + Closing Volume)} * \text{Air Supply Pressure (Kpa)} + 101.3/101.3 * \text{Motion Times (Min.)}$$

Common Faults, Inspection and Troubleshooting

Failure phenomenon	Inspection Items	Solution
Pneumatic valve can not move	1. When solenoid valve is normal, coil is burned or not, or whether solenoid valve core is blocked by foreign matter.	Replace solenoid valve and coils and remove foreign matter
	2. Test the pneumatic actuator separately with air supply, check whether sealing ring and cylinder is damaged.	Replace the damaged sealing ring and cylinder
	3. Impurities in the valve blocks the valve core.	Remove impurities and replace damaged parts
	4. The handle is in manual position.	Move the handle to pneumatic position
Slow motion, crawling	1. Air supply pressure is not enough.	Increase air supply pressure (0.4-0.7Mpa)
	2. Output torque of pneumatic actuator is too small.	Choose a larger pneumatic actuator model
	3. Valve coil or other valve components are too tight.	Reassemble and readjustments
	4. Air supply pipe is plugged and flow is too small.	Clear the plug and replace the filter
Reply devices without signal	1. Short circuit or disconnection of power occurs.	Inspect and repair power circuit
	2. Cam position inside the switch box is not accurate.	Adjust the cam to correct position
	3. Micro switches is damaged.	Replace micro switches

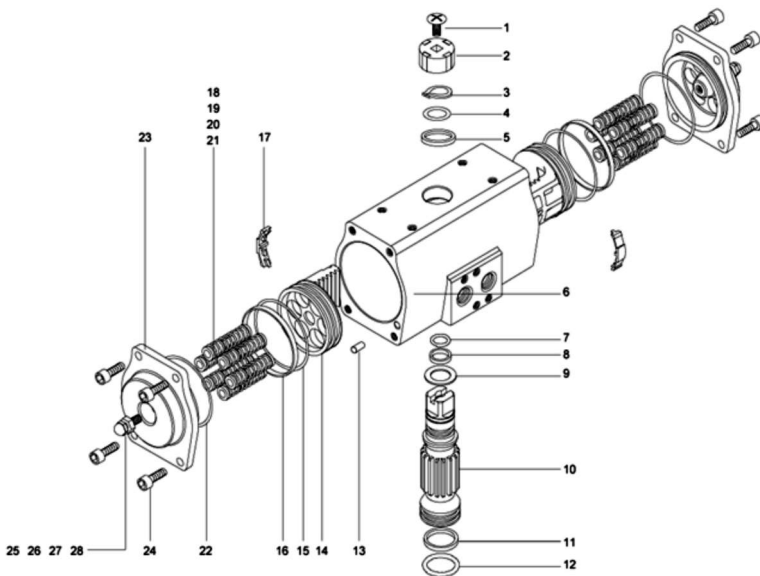
RT Series Stainless Steel Pneumatic Actuator

Designing Features



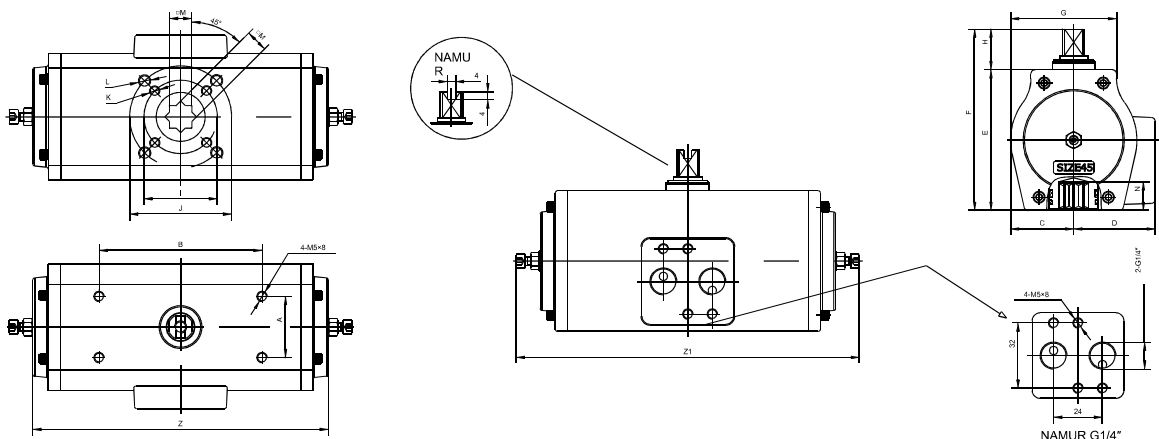
1. ASTM316L, 316, 304, 303 stainless steel pneumatic actuator with electro-polish finish offer excellent resistance to most corrosive chemicals as well as industrial atmospheres.
2. Dual piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation, reverse rotation can be accomplished in the field by simply inverting the pistons.
3. Multiple bearings and guides on racks and pistons, low friction, high cycle life and prevent shaft blowout.
4. Modular preloaded spring cartridge design, with coated spring for simple versatile range, greater safety and corrosion resistance, longer cycle life.
5. Fully machined teeth on piston and pinion for accurate low backlash rack and pinion engagement, maximum efficiency.
6. Stainless steel fasteners for long term corrosion resistance.
7. Full conformance to the latest specifications: ISO5211, DIN 3337 and Namur or product interchangeability and easy mounting of solenoids, limit switches and other accessories.

RT Series Actuators Parts and Material Table



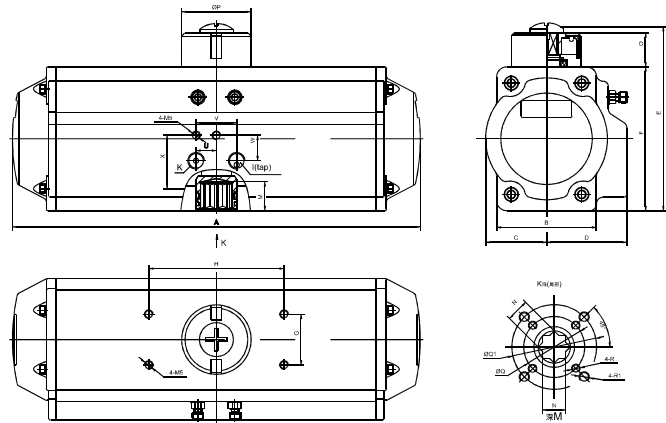
Number	Description	Qty	Standards Material
1	Indicator screw	1	POM
2	Indicator	1	POM
3	Snap ring	1	Spring steel
4	Washer	1	Stainless steel
5	Trust bearing	1	POM
6	Body	1	Stainless steel
7	O-ring(top)	1	Viton/NBR
8	Bearing top	1	POM
9	Trust bearing	1	POM
10	Pinion	1	Stainless steel
11	Bearing bottom	1	POM
12	O-ring Bottom	1	Viton/NBR
13	Plug	2	NBR
14	Piston	2	Stainless steel
15	Piston O-ring	2	Viton/NBR
16	Piston Bearing	2	POM
17	Guide Piston	2	POM
18	Spring	*	Spring Steel
19	Spring Retainer(L)	*	Nylon 66
20	Spring Retainer(R)	*	Nylon 66
21	Retainer Connector	*	Brass
22	End-Cap O-ring	2	Viton/NBR
23	End-Cap	2	Stainless steel
24	End-Cap Stop Screw	8	Stainless steel
25	Adjust Screw	2	Stainless steel
26	Adjust Screw Nut	2	Stainless steel
27	Adjust Screw Washer	2	Stainless steel
28	Adjust Screw O-ring	2	Viton/NBR

RT Series Actuators Parts and Material Table



ATC 120° /180° Double Acting Actuator

120°/180° Actuator Dimension and Connection Size (Double Acting)



1. We can provide other item actuators according to your requirement
2. We can provide different stroke actuator ,such as 40°/60° etc

Dimension

Model	FLANGE L(ISO5211)		R/R1		A (120)	A (180)	B	C	D	E	F	G	H	I	K	O	P	U	V	W	X
	Q/Q1	M/N(min)																			
ATC-50	F03/F05	M5/M6	207	225	47	29	41.5	95	69	30	80	PF	1/4"	20	42	12	24	16	32		
	Ø36/Ø50	13/11																			
ATC-63	F03/F05	M5/M6	230	250	59	36	47.5	111	85	30	80	PF	1/4"	20	42	12	24	16	32		
	Ø36/Ø50	16/14																			
ATC-75	F05/F07	M6/M8	300	330	68	43	51	128	102	30	80	PF	1/4"	20	42	12	24	16	32		
	Ø50/Ø70	19/17																			
ATC-88	F05/F07	M6/M8	325	358	68	49.5	55.5	141	115	30	80	PF	1/4"	20	42	12	24	16	32		
	Ø50/Ø70	20/17																			
ATC-100	F07/F10	M8/M10	360	400	95	56	64	153	127	30	80	PF	1/4"	20	42	12	24	16	32		
	Ø70/Ø102	24/22																			
ATC-115	F07/F10	M8/M10	420	465	97	64.5	74.5	181	145	30	80	PF	1/4"	30	62	12	24	16	32		
	Ø70/Ø102	24/22																			
ATC-125	F07/F10	M8/M10	470	520	97	69	78.5	193	157	30	80	PF	1/4"	30	62	12	24	16	32		
	Ø70/Ø102	29/27																			
ATC-145	F10/F12	M10/M12	525	580	115	80	87	214	178	30	80/130	PF	1/4"	30	62	12	24	16	32		
	Ø102/Ø125	30/27																			
ATC-160	F10/F12	M10/M12	570	630	118	89	104	236	200	30	80/130	PF	1/4"	30	80	12	24	16	32		
	Ø102/Ø125	30/27																			
ATC-190	F14	M16	655	720	130	103	103	267	231	30	80/130	PF	1/4"	30	80	12	24	16	32		
	Ø140	40/36																			
ATC-210	F14	M16	770	840	130	113	113	293	257	30	130	PF	1/4"	30	80	12	24	16	32		
	Ø140	40/36																			
ATC-240	F16	M20	840	916	160	130	130	328	292	30	130	PF	1/4"	30	80	12	24	16	32		
	Ø165	50/46																			
ATC-270	F16	M20	940	1020	160	147	147	367	331	30	130	PF	1/2"	30	80	20	40	22.5	45		
	Ø165	50/46																			
ATC-300	F16	M20	1140	1230	180	161	172	390	354	30	130	PF	1/2"	30	90	20	40	22.5	45		
	Ø165	50/46																			

Three Position Pneumatic Actuator

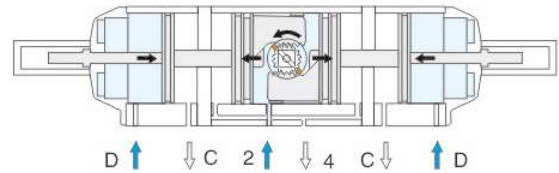
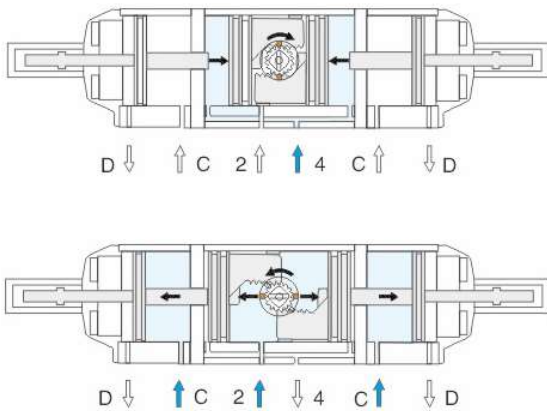
Three position pneumatic actuators have two kinds of models $0^\circ -45^\circ -90^\circ$ or $0^\circ -90^\circ -180^\circ$, In intake 2.the piston move to both ends after air inflow,it through both ends design has auxiliary piston produces mechanical constraints to realize the middle position It Can use outside ends adjusting bolt easily adjust intermediate position Angle directly Such as $20^\circ 30^\circ 50^\circ 75^\circ$ or $95^\circ 120^\circ 130^\circ 150^\circ 175^\circ$,etc

Three position pneumatic actuators which operating need to design a set of electromagnetic valve control loop system to complete the operation, the control principle is as follows:

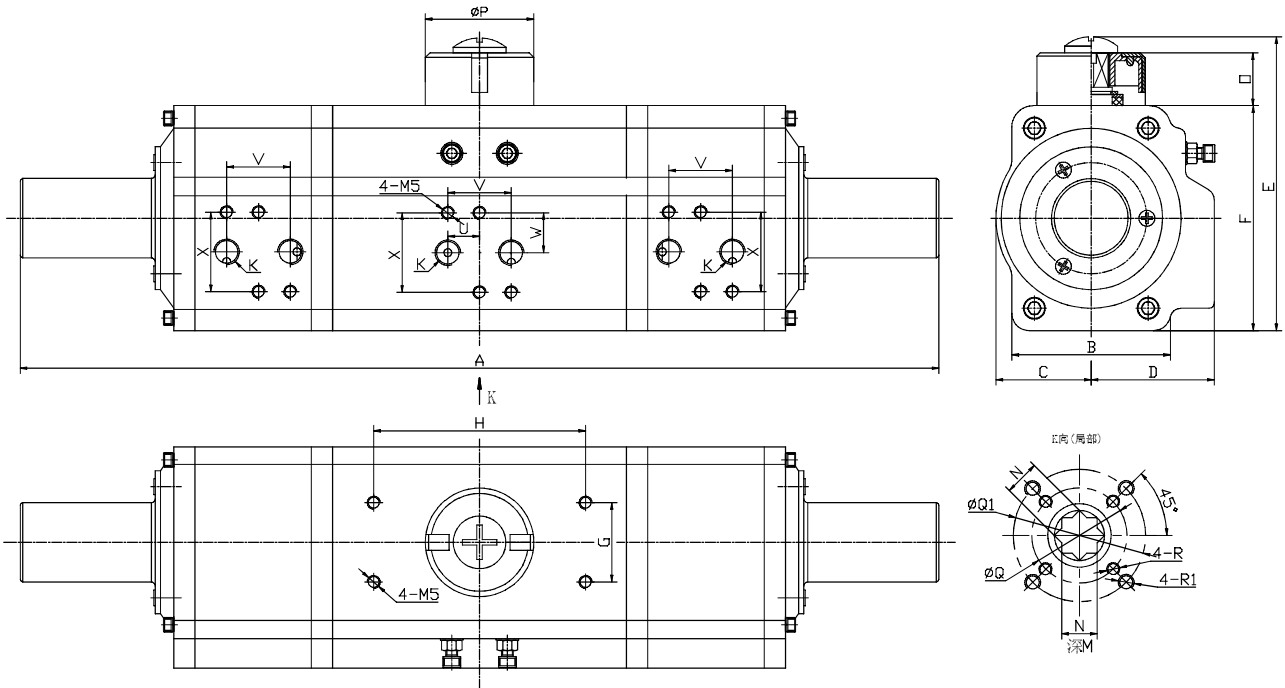
Air pressure enter 2 hole and D hole ate one time,then air from 4 hole and C hole education, 2 hole as internal piston movement, D hole through assisted piston push-rod limit internal piston positioning at a predetermined middle

Air pressure enter 2 hole and C hole at one time,then air from 4 hole and D hole education, 2 hole internal piston continues to move, C hole remove auxiliary piston push-rod limit positioning,it make the internal piston smooth arrival in full-open position.

Air pressure into 4 hole,then air from 2 hole education, internal piston move to the middle direction then reach full-closed position
We Can provide 0-45-90 spring return type specification,
When lose air,or cut power(or airfailure), it can return to full-closed position.through the spring force inner piston



Three Position Pneumatic Actuator



Dimension

Model	FLANGE L (ISO5211)		R/R1															
	Q/Q1	M/N(min)	A	B	C	D	E	F	G	H	I	K	O	P	U	V	W	X
SAT-63	F03/F05	M5/M6	347	59	36	47.5	111	85	30	80	PF	1/4"	20	42	12	24	16	32
	$\phi 36/\phi 50$	16/14																
SAT-75	F05/F07	M6/M8	412	68	43	51	128	102	30	80	PF	1/4"	20	42	12	24	16	32
	$\phi 50/\phi 70$	19/17																
SAT-88	F05/F07	M6/M8	538	68	49.5	55.5	141	115	30	80	PF	1/4"	20	42	12	24	16	32
	$\phi 50/\phi 70$	20/17																
SAT-100	F07/F10	M8/M10	620	95	56	64	153	127	30	80	PF	1/4"	20	42	12	24	16	32
	$\phi 70/\phi 102$	24/22																
SAT-115	F07/F10	M8/M10	686	97	64.5	74.5	181	145	30	80	PF	1/4"	30	62	12	24	16	32
	$\phi 70/\phi 102$	24/22																
SAT-125	F07/F10	M8/M10	718	97	69	78.5	193	157	30	80	PF	1/4"	30	62	12	24	16	32
	$\phi 70/\phi 102$	29/27																
SAT-145	F10/F12	M10/M12	760	115	80	87	214	178	30	80/130	PF	1/4"	30	62	12	24	16	32
	$\phi 102/\phi 125$	30/27																
SAT-160	F10/F12	M10/M12	826	118	89	104	236	200	30	80/130	PF	1/4"	30	80	12	24	16	32
	$\phi 102/\phi 125$	30/27																
SAT-190	F14	M16	892	130	103	103	267	231	30	80/130	PF	1/4"	30	80	12	24	16	32
	$\phi 140$	40/36																

메가텍 자동밸브

MEGATEC

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