

Пневматические приводы клапанов ZG-АТМ

Технические характеристики

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**Actuator
cylinder diameter**

52~270(mm)



**Actuator applicable
environment temperature**

-40-80

-20-80

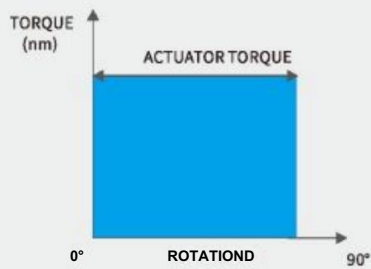
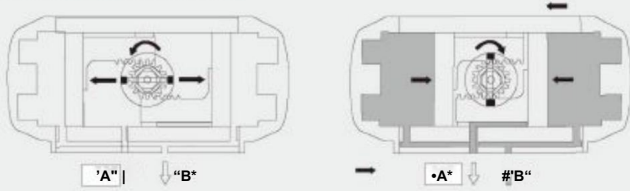
-15-150



Through optimized and innovative design, a large number of new materials and new processes are used in ZG-ATM series valve pneumatic actuator to make the product quality more reliable. Multi-specification selection is more economical. All series of products are strictly in accordance with the latest international standard technical specifications Manufactured to fully meet any usage requirements.

1. The extruded high-quality aluminum alloy cylinder body is hard anodized on the inner hole and outer surface processed by the precision machining center.
2. ZG-ATM has high precision, high speed and stability, and long service life because of the structure design of the double-piston rack and pinion. By simply changing the assembly position of the piston, the rotation direction of the cylinder can be changed on-site.
3. The two independent stroke adjustment screws on the outside can make convenient and accurate $\pm 5^\circ$ adjustments in two directions so that the actuator is consistent with the valve position in the fully open position and the fully closed position.
4. The universal, anti-fracture, nickel-plated output gear shaft can facilitate the mutual conversion of octagonal and round shaft holes, making the material preparation less and more flexible.
5. Because of one-piece compact design, double-acting and spring-return single-acting actuator models both have the same cylinder, piston, and end cover. By adding or removing springs, we can easily perform the on-site conversion.
6. Multi-function position indicator, on-site visual indication and all accessories can be easily and simply installed.
7. Combined reserved spring seat and unique O-ring design are suitable for various occasions. They will make the actuator safer and more corrosion-resistant.
8. High-precision tooth profile on the gear and rack: The tooth engagement gap between the gear and the rack is smaller and more precise and the output power is larger.
9. Select high-quality support rings to reduce the friction coefficient of O-rings. So that the actuator will have long service life and a wide range of operating temperatures.
10. The actuator has long-term corrosion-resistant internal and external stainless steel standard parts.
11. The actuator is fully comply with the latest international standards: ISO5211, DIN 3337, and VDI 3845 and good interchangeability which is convenient for the installation and use of solenoid valves, limit switches, and other accessories.

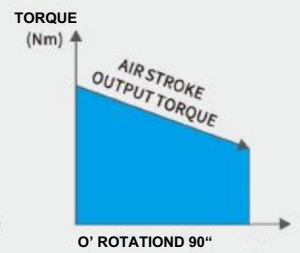
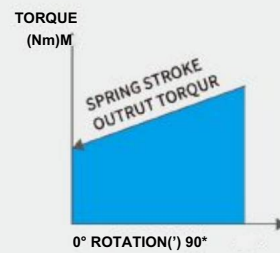
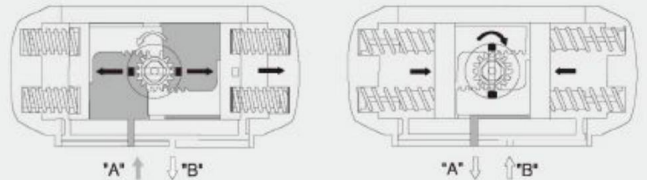
Double acting actuator



"A" port intake, compressed air pushes both ends of the piston to move, so that the actuator output shaft rotates counterclockwise 10-90°. "B" port exhaust.

"B" port Intake, compressed air pushes the piston to move in the middle, so that the actuator output shaft rotates clockwise (90-0)°/A port exhaust.

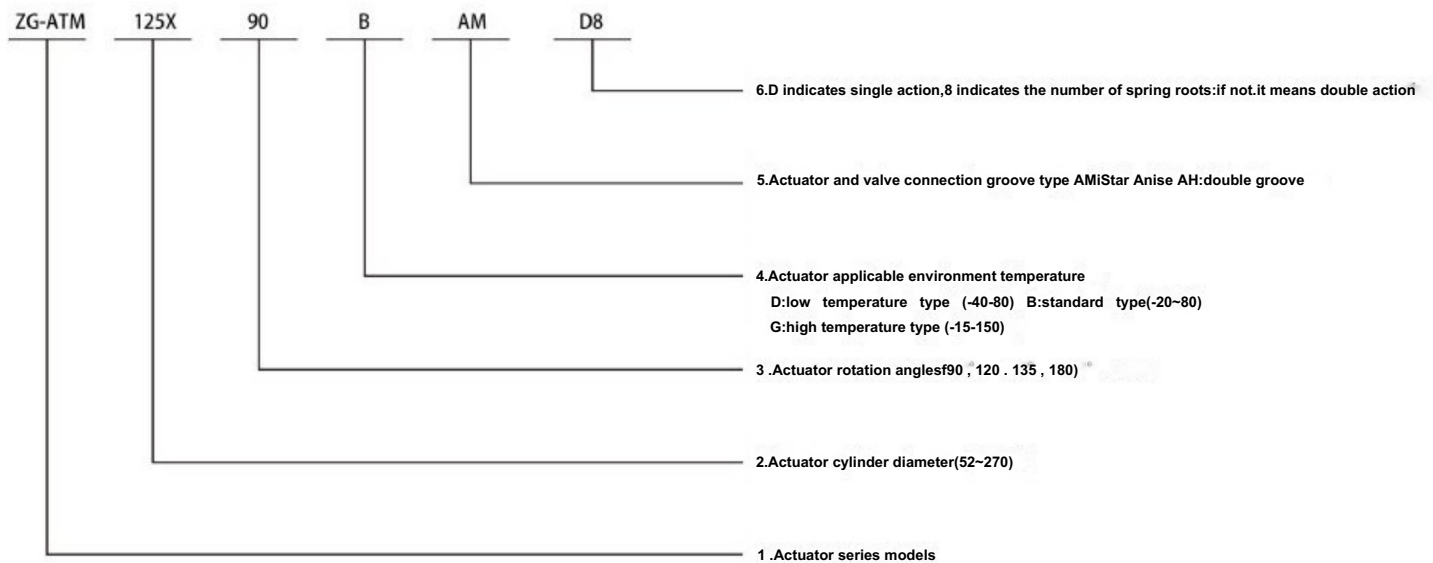
Single acting actuator



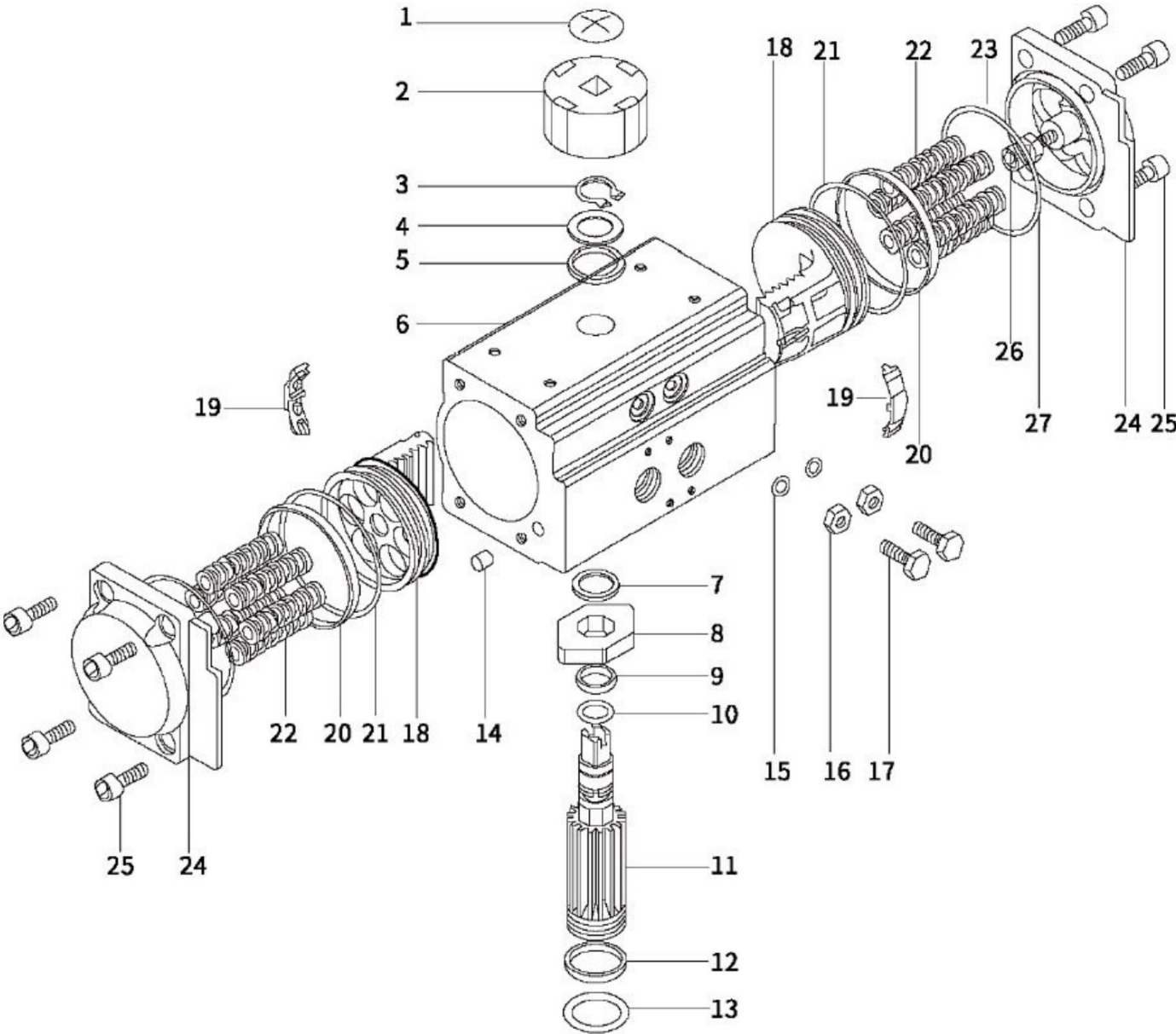
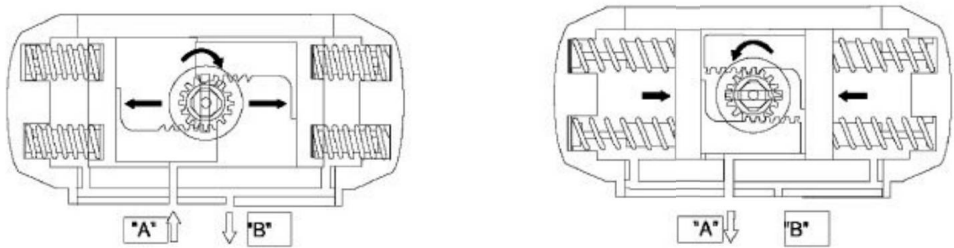
"A" port intake, the compressed air overcomes the spring force, pushes both ends of the piston to move, so that the actuator output shaft rotates counterclockwise 0-90°.

"B" port exhaust. When the actuator is cut off, the piston moves to the middle under the action of the spring force, so that the output shaft of the actuator rotates clockwise 190-0° and the "A" port is exhausted.

Body parameters



Double acting actuator



No	Name	Quantity	Material	Anticorrosion treatment	Optional Material
1	indicator screw	1	Stainless steel		
2	indicator	1	plastic		
3	circlip	1	Stainless steel		
4	washer	1	Stainless steel		
5	Outer gasket	1	Engineering plastics		
6	cylinder	1	cast aluminun	Hard oxidation,etc.	
7	Inner gasket	1	Engineering plastics		
8	cam	1	alloy steel		
9	lipper shaft bearing	1	Engineering plastics		
10	Upper shaft 0 ring	1	Nitrile rubber		Fluorine rubber/silicon rubber
11	gear shaft	1	alloy steel	Nickel plated	Stainless steel
12	Lower shaft bearing	1	Engineering plastics		
13	Lower shaft 0 ring	1	Nitrile rubber		Fluorine rubber/silicon rubber
14	plug	2	Nitrile rubber		Fluorine rubber/silicon rubber
15	Adjusting screw o-ring	2	Nitrile rubber		Fluorine rubber/silicon rubber
16	adjusting screw nut	2	Stainless steel	Oxidized/Galvanized	
17	Adjusting Bolt	2	Stainless steel		
18	piston	2	Cast aluminum/cast steel		Stainless steel
19	support ring	2	Engineering Rubber		
20	Piston bearing	2	Engineering Rubber		
21	Piston 0-ring	2	Nitrile rubber		Fluorine rubber/silicon rubber
22	spring	0*12	springsteel	Dip paint	
23	End cap 0-ring	2	Nitrile rubber		Fluorine rubber/silicon rubber
24	end cap	2	cast aluminum	Powder spray paint,etc.	
25	end cap bolts	8	Stainless steel		
26	Limit bolt	2	Stainless steel		
27	Limit Nut		Stainless steel		

Model	Double Acting Actuator			Single Acting Actuator			Weight of single spring	Volume Opening	Volume Closing
	Opening Time	Closing Time	Weight (Kg)	Opening Time	Closing Time	Weight (Kg)			
ZG-ATM052	0.3	0.4	1.38	0.4	0.4	1.48	0.01	0.11	0.14
ZG-ATM063	0.4	0.4	2.03	0.5	0.5	2.23	0.02	0.2	0.23
ZG-ATM075	0.4	0.5	2.85	0.5	0.6	3.15	0.03	0.31	0.39
ZG-ATM083	0.5	0.6	3.13	0.6	0.6	3.63	0.05	0.41	0.55
ZG-ATM092	0.6	0.7	4.6	0.7	0.8	5.2	0.06	0.62	0.91
ZG-ATM105	0.7	0.7	6.8	0.9	0.9	7.8	0.1	0.97	1.21
ZG-ATM125	0.9	1.1	10	1.3	1.4	11.6	0.16	1.49	1.87
ZG-ATM140	1.2	1.4	13.3	1.6	1.8	15.6	0.23	2.43	3.2
ZG-ATM160	1.6	1.7	20.2	2	2.3	24.1	0.39	3.65	5.03
ZG-ATM190	2.6	3.1	31.5	3	3.3	36	0.45	5.9	7.9
ZG-ATM210	3.3	3.8	47	4	4.4	55	0.8	7.4	9.7
ZG-ATM240	3.8	4.4	67.6	4.5	4.9	80.9	1.33	10.7	14.3
ZG-ATM270	4.5	5.3	97	5	5.7	117	2	16.9	22.5



Actuator model	2.5bar	3. Obar	3. 5bar	4. Obar	4. 5bar	5. Obar	5. 5bar	6. Obar	7. Obar	8. Obar
ZG-ATM052S	10. 1	12. 1	14. 1	16. 1	18. 1	20.2	22.2	24.2	28.2	32.3
ZG-ATM063S	17.8	21.3	23.8	28.4	32	35.5	39. 1	42.6	49. 7	56.8
ZG-ATM075S	29. 1	24.9	40.7	46.5	52.3	58.2	64	69.8	81.4	93
ZG-ATM083S	38.5	46.2	53.7	61.6	69.4	77. 1	84.8	92.5	107.9	123.3
ZG-ATM092S	56.8	68.2	79.4	90.9	102.3	113.6	125	136. 3	159. 1	181.8
ZG-ATM105S	82.8	98.7	114.5	131.6	148	164.4	18.9	197.3	230.2	263. 1
ZG-ATM125S	138	166	194	221	249	277	304	332	387	443
ZG-ATM140S	219	263	297	351	395	439	482	526	614	702
ZG-ATM160S	334	401	454	535	601	668	735	802	935	1069
ZG-ATM190S	538	646	735	861	969	1077	1185	1292	1538	1723
ZG-ATM210S	658	789	899	1052	1184	1316	1447	1579	1842	2015
ZG-ATM240S	966	1160	1293	1546	1740	1933	2126	2320	2706	3093
ZG-ATM270S	1468	1761	1981	2349	2642	2936	3229	3523	4110	4697

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