



# AC SERIES PNEUMATIC ACTUATORS



CDG Actuator Manufacturer

Pneumatic Actuator

® **CDG Actuator Manufacturer**

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Pneumatic Actuator

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# Ac





## COMPANY HISTORY

- 1963 : Founded CDG.
- 1985 : CDG brand creation.
- 1989 : Production of pneumatic actuators, and Italy FABIA to establish acooperation.
- 1992 : With the United States FAIRCHILD cooperation, Production of electric actuators.
- 2001 : Focus on the production and assembly of CDG.
- 2005 : Production of hydraulic actuators.
- 2006 : Production of valves.
- 2011 : Oil station development and use.
- 2016 : Set up a number of representative offices in China.

## ENTERPRISE PROFILE

The CDG is a famous actuator manufacturers, the company is headquartered in America's largest city, Detroit, Michigan is located in the northeastern United States, Canada, Detroit river north of Windsor an important port city. With strong industrial base and freight advantage.

CDG products have unique design, short delivery time, competitive price and excellent after-sales support. As a professional manufacturer of valves, it quickly became the industry leader.

CDG has more than 50 years experience in the valve industry. The r&d department USES these experiences to constantly design new products, improve existing products, and adapt to changing market demands and constantly improving international standards.

CDG can provide standard and non-standard solutions that can be customized according to customer needs.

CDG has created a wide range of reliable products. CDG is favored and admired by the world's leading EPC and oil and gas companies because of its high performance in extreme conditions. Its products are used in power plant, petrochemical, metallurgy, papermaking,

automobile and more. Product certification based on customer requirements and government legislation is a guarantee of product quality. CDG USES advanced testing laboratories to ensure the durability of its products. Fire safety, high temperature and low temperature testing can be carried out under extreme conditions.

CDG good position, provide comprehensive after-sales support, fast, efficient, with unparalleled expertise. Our skilled engineers and technicians work 24 hours a day to respond to customer queries, solve problems, and provide reliable solutions. A comprehensive after-sales service creates a complete solution, customer support, covering all requirements.

CDG is a long-term, reliable, available and cost-effective partner for your existing and new business.

CDG brand is comprehensive, including valve and oil station, pneumatic actuator, electric actuator and hydraulic actuator and other related fields. To enable CDG to meet different needs, it can be sold separately, and can be matched in a complete set, so that users can reduce their worries.



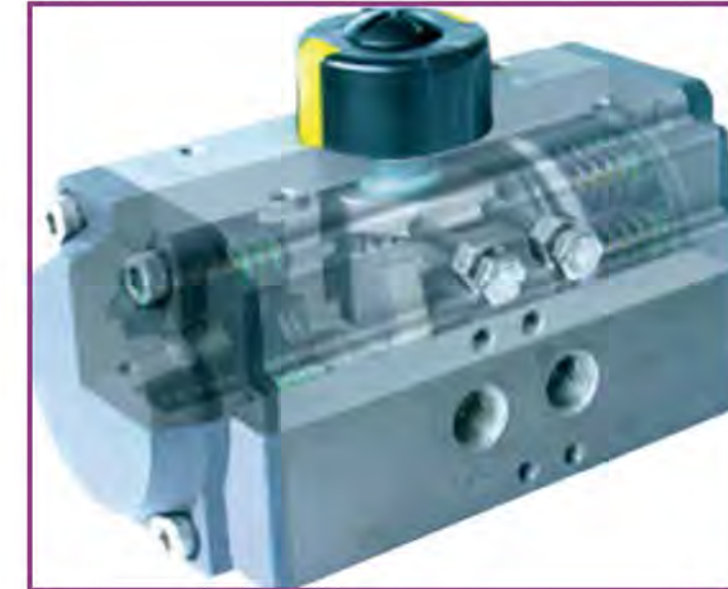
## Design

AC series pneumatic actuator is suitable for driving control of various rotary valves. Use 2.5~8 bar compressed air drive. Without lubrication design, the inner surface of cylinder and piston rack are hardened, and the service life of the cylinder is more than 1 million times.

AC series pneumatic actuator is a perfect new generation product integrating the latest technology, practical materials and precision machining technology in the world. The series pneumatic actuator is a double piston gear rack structure, double acting type and spring resetting type for the same cylinder body, with standard indicator and open position and closing adjustment device. In addition, the latest technology of arts and crafts makes our products modern, beautiful and compact.



## Structure



### 1. Indicator

Multi-function position indicator with NAMUR standard mounting groove, convenient and convenient installation of various accessories, such as positioners, limit switches.

### 2. Output shaft

High-precision integrated gear output shaft made of nickel-plated alloy steel, in line with ISO5211, DIN3337, NAMUR standards. Can be customized according to user requirements size, and stainless steel for choice.

### 3. Cylinder

ASTM6005 extruded aluminum cylinder body according to different requirements, can be hard oxide, blue epoxy coating, PTFE coating or nickel plating and other surface treatment.

### 4. End cover

Die-casting aluminum alloy end cover can be treated with polyester coating, metal powder coating, PTFE coating or nickel plating.

### 5. Piston

Double piston rack is made of cast aluminum hard oxidation or cast steel galvanized treatment, installation position symmetry, quick action, long service life, simple reverse piston can change the direction of rotation.



## 6. Stroke adjustment

External two independent stroke adjustment screw can switch two directions which can adjust the convenient and accurate  $\pm 5^\circ$ .

## 7. High-performance spring

The combined preload spring adopts high quality material, coating treatment and prepress assembly. It has strong corrosion resistance and long service life. It can safely and simply remove single acting actuator and satisfy different torque output range by changing the number of springs.

## 8. Bearing and guide plate.

Using low friction, long life composite material, avoid direct contact between metal and metal, maintenance is simpler and more convenient.

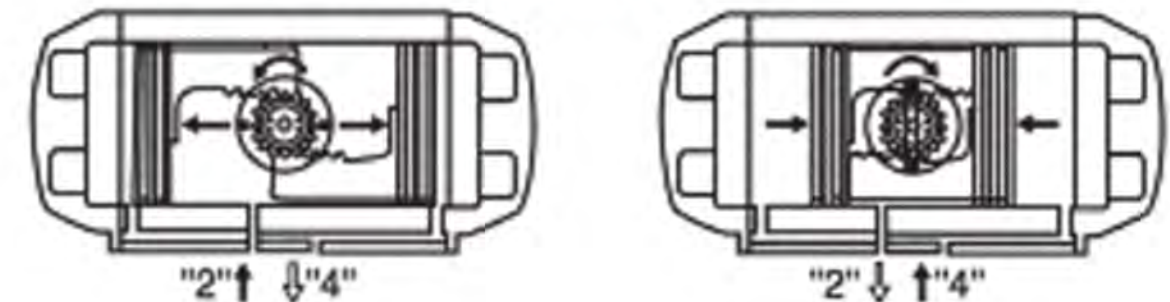
## 9. Seal

O - type sealing ring is made of nitrile rubber at normal temperature, and fluoro rubber or silicone rubber is used at high temperature or low temperature.

## Working principle

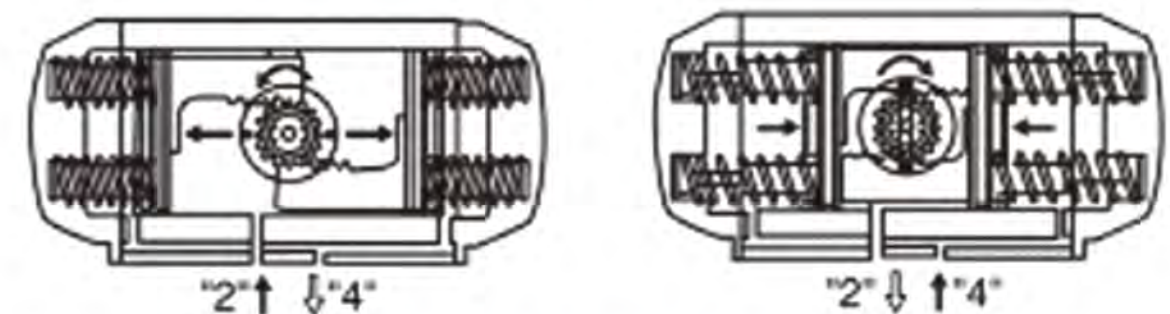
### Double-acting

1. When the pressure of the air supply enters from 2 ports to force the piston to move towards the end cap, the air is discharged from 4 ports to obtain anticlockwise rotation.
2. When the air supply pressure from 4 to force the piston closed, the air is discharged from 2, so as to obtain clockwise rotation.



### Single acting

1. When the pressure of the air supply enters from 2 ports to force the piston to move toward the end cap and compress the spring, the air is discharged from 4 ports to obtain anticlockwise rotation.
2. Loss of energy or loss of power, the spring closed the piston, the air discharged from the 2, so as to obtain clockwise rotation.



Non-standard direction of rotation is reversing the two piston position, the introduction of pressure to 2 can be rotated clockwise, the introduction of pressure to 4 can be counterclockwise rotation.

## The working conditions

### 1. Working medium

Dry or lubricated compressed air or corrosive gas with impurity particles less than 30um in the medium.

### 2. Air source pressure

Minimum air pressure of 2.5Bar, maximum air pressure of 8Bar.

### 3. Operating temperature

Standard product operating temperature is  $-20^\circ\text{C}$ — $+80^\circ\text{C}$ ;

Low temperature type product operating temperature for the  $-35^\circ\text{C}$ — $+80^\circ\text{C}$ ;

High temperature type product operating temperature for  $-15^\circ\text{C}$ — $+150^\circ\text{C}$ .

### 4. Stroke adjustment

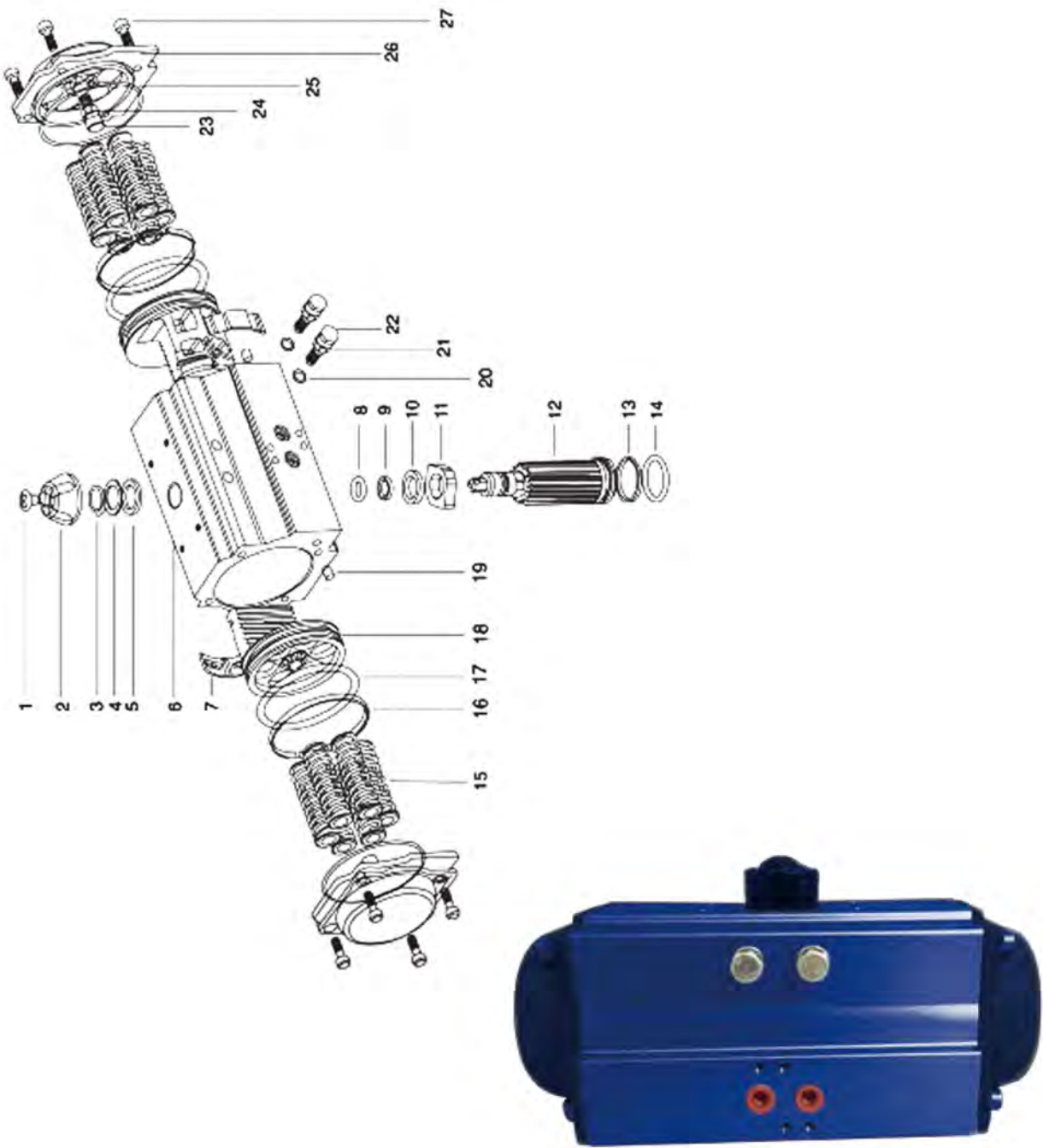
Standard products at  $0^\circ$  and  $90^\circ$  two position adjusting range of  $\pm 5^\circ$ .

### 5. Use occasions

Indoor or outdoor installation.



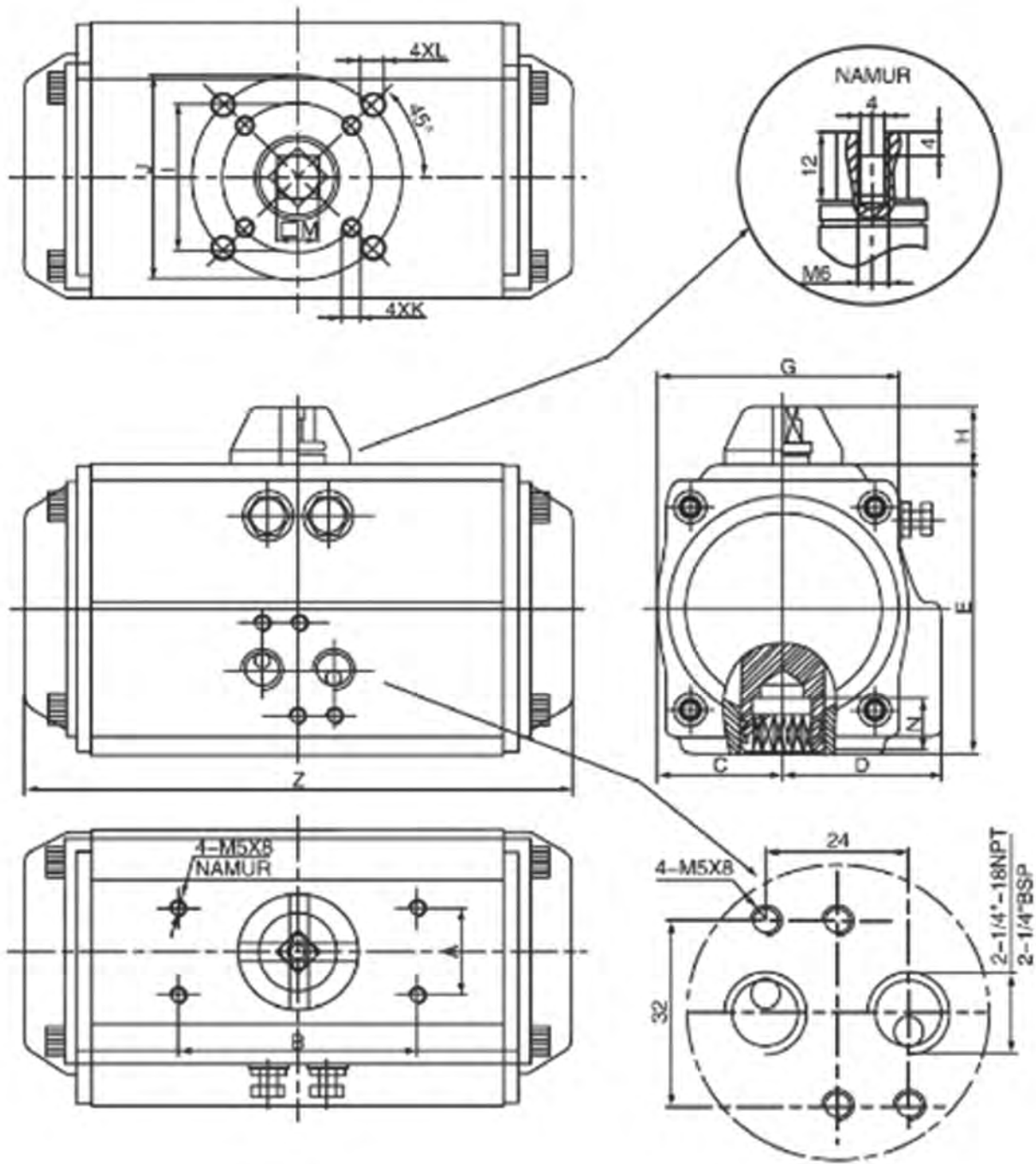
Parts and materials



No.	Name	Quantity	Material	Surface treatment	Optional material
1	Indicator screw	1	Plastic (ABS)		
2	Indicator	1	Plastic (ABS)		
3	Circlip	1	Stainless steel (304)		
4	Washer	1	Stainless steel (304)		
5	Outer gasket	1	Engineering plastics		
6	Cylinder block	1	Extruded aluminum alloy (6005-T5)	Hard oxide	
7	Piston guide	2	Engineering plastics		
8	Upper shaft o-ring	1	NBR		Fluorine rubber / silicone rubber
9	Upper shaft bearing	1	Engineering plastics		
10	Inner washer	1	Engineering plastics		
11	Itinerary CAM	1	Alloy steel		
12	Gear shaft	1	Alloy steel	Nickel plating	Stainless steel
13	Lower shaft bearing	1	Engineering plastics		
14	Lower shaft O-ring	1	NBR		Fluorine rubber / silicone rubber
15	Spring	0-12	Spring steel	varnished	
16	Piston bearings	2	Engineering plastics		
17	Piston O-ring	2	NBR		
18	Piston	2	Cast aluminum / cast steel (101A)	Oxidation / galvanizing	Stainless steel
19	Plug	2	NBR		Fluorine rubber / silicone rubber
20	Adjustment screw O-ring	2	NBR		Fluorine rubber / silicone rubber
21	Adjust the screw nut	2	Stainless steel (304)		
22	Adjustment bolt	2	Stainless steel (304)		
23	Limit bolt	2	Stainless steel (304)		
24	Limit nut	2	Stainless steel (304)		
25	Cover O-ring	2	NBR		Fluorine rubber / silicone rubber
26	Cover	2	Cast aluminum (ADC12)	Powder coating	
27	Cover bolt	8	Stainless steel (304)		



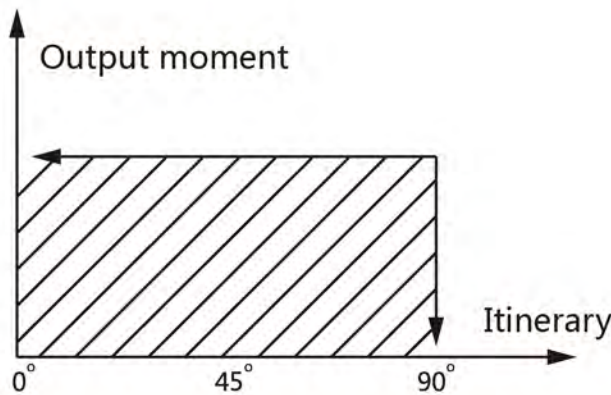
Dimension drawing



Model	A	B	C	D	E	G	H	I	J	K	L	M	N	Z	Port size
AC52	30	80	30	41.5	72	65	20	Φ36	Φ50	M5X8	M6X10	11	14	147	1/4"NPT
AC63	30	80	36	47	87.5	72	20	Φ50	Φ70	M6X10	M8X13	14	18	168	1/4"NPT
AC75	30	80	42	53	99.5	81	20	Φ50	Φ70	M6X10	M8X13	14	18	184	1/4"NPT
AC83	30	80	46	57	108.8	92	20	Φ50	Φ70	M6X10	M8X13	17	21	204	1/4"NPT
AC92	30	80	50	61	116.5	98	20	Φ50	Φ70	M6X10	M8X13	17	21	262	1/4"NPT
AC105	30	80	57.5	64	133	109.5	20	Φ70	Φ102	M8X13	M10X16	22	26	268	1/4"NPT
AC125	30	80	67.5	74.5	155	127.5	20	Φ70	Φ102	M8X13	M10X16	22	26	296	1/4"NPT
AC140	30	80	75	77	172	137.5	20	Φ102	Φ125	M10X16	M12X20	27	31	390	1/4"NPT
AC160	30	80	87	87	197	158	20	Φ102	Φ125	M10X16	M12X20	27	31	454	1/4"NPT
AC190	30	130	103	103	230	189	30		Φ140		M16X25	36	40	525	1/4"NPT
AC210	30	130	114	114	255	211	30		Φ140		M16X25	36	40	532	1/4"NPT
AC240	30	130	130	130	289	245	30		Φ165		M20X25	46	50	610	1/4"NPT
AC270	30	130	147	147	326	273	30		Φ165		M20X25	46	50	722	1/2"NPT

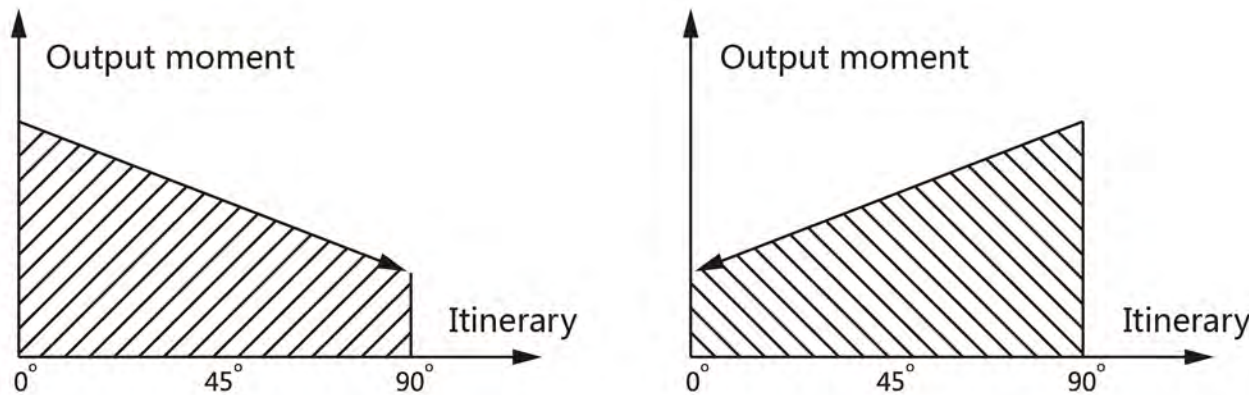


Double acting output moment



Double acting actuator output moment (Nm)										
Model	Supply pressure (Bar)									
	2	2.5	3	4	4.5	5	5.5	6	7	8
AC52DA	8.1	10.1	12.1	16.1	18.1	20.2	22.2	24.2	28.2	32.3
AC63DA	14.4	18.0	21.7	28.9	32.5	36.1	39.7	43.3	50.5	57.7
AC75DA	20.1	25.2	30.2	40.3	45.3	50.3	55.4	60.4	70.5	80.5
AC83DA	31.2	39.0	46.8	62.4	70.2	78.0	85.8	93.8	109.2	124.8
AC92DA	45.4	56.8	68.2	90.9	102.3	113.6	125.0	136.3	159.1	181.8
AC105DA	65.8	82.2	98.7	131.6	148.0	164.4	180.9	197.3	230.2	263.1
AC125DA	102.5	128.2	153.8	205.1	230.7	256.4	282.0	307.6	358.9	410.2
AC140DA	175.4	219.3	263.1	350.8	394.7	438.5	482.4	526.2	613.9	701.6
AC160DA	267.3	334.1	400.9	534.6	601.4	668.2	735.0	801.8	935.5	1069.1
AC190DA	430.7	538.4	646.1	861.5	969.2	1076.9	1184.5	1292.2	1507.6	1723.0
AC210DA	526.2	657.8	789.3	1052.4	1184.0	1315.5	1447.1	1578.6	1841.7	2104.8
AC240DA	773.2	996.5	1159.8	1546.4	1739.7	1933.0	2126.3	2319.6	2706.2	3092.8
AC270DA	1169.6	1462.1	1754.5	2339.3	2631.7	2924.1	3216.5	3508.9	4093.7	4678.6

Single acting output moment



Air source to overcome the spring output torque (Nm)																			
Supply pressure (Bar)		2Bar		2.5Bar		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar		Spring output moment	
Model	Spring number	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
AC52SR	5	3.8	1.9	5.8	3.9	7.8	5.9	11.8	9.9	15.9	14							6.2	4.3
	6			5.1	2.7	7.1	4.7	11.1	8.7	15.2	12.8							7.4	5.0
	7					6.2	3.5	10.2	7.5	14.3	11.6	18.3	15.6					8.6	5.9
	8							9.4	6.2	13.5	10.3	17.5	14.3	21.5	18.3			9.9	6.7
	9							8.5	5.0	12.6	9.1	16.6	13.1	20.6	17.1	24.7	21.2	11.1	7.6
	10									11.7	7.8	15.7	11.8	19.7	15.8	23.8	19.9	12.4	8.5
	11									10.9	6.6	14.9	10.6	18.9	14.6	23.0	18.7	13.6	9.3
	12											14	9.4	18.0	13.4	22.1	17.5	14.8	10.2



Supply pressure (Bar)		2Bar		2.5Bar		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar		Spring output moment	
Model	Spring number	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
AC63SR	5	7.5	4	11.2	7.6	11.3	19.3	22.1	18.5	29.3	25.7							10.4	6.8
	6			9.8	5.5	9.2	18	20.7	16.4	27.9	23.6							12.5	8.2
	7					7.1	16.6	19.3	14.3	26.5	21.5	33.7	28.7					14.6	9.6
	8							18.0	12.2	25.2	19.4	32.4	26.6	39.6	33.8			16.7	10.9
	9							16.6	10.1	23.8	17.3	31.0	24.5	38.2	31.7	45.4	38.9	18.8	12.3
	10									22.4	15.2	29.6	22.4	36.8	29.6	44.0	36.8	20.9	13.7
	11									21.1	13.2	28.3	20.4	35.5	27.6	42.7	34.8	22.9	15.0
	12											26.9	18.3	34.1	25.5	41.3	32.7	25.0	16.4
AC75SR	5	9.6	5.6	14.7	10.7	19.7	15.7	29.8	25.8	39.8	35.8							14.5	10.5
	6			12.5	7.8	17.5	12.8	27.6	22.9	37.6	32.9							17.4	12.7
	7					15.4	9.9	25.5	20.0	35.5	30.0	45.6	40.1					20.3	14.8
	8							23.4	17.1	33.4	27.1	43.5	37.2	53.6	47.3			23.2	16.9
	9							21.3	14.2	31.3	24.2	41.4	34.3	51.5	44.4	61.5	54.4	26.1	19.0
	10									29.2	21.3	39.3	31.4	49.4	41.5	59.4	51.5	29.0	21.1
	11									27.1	18.4	37.2	28.5	47.3	38.6	57.3	48.6	31.9	23.2
	12											35.1	25.7	45.2	35.8	55.2	45.8	34.7	25.3
AC83SR	5	15.4	8.2	23.2	16.0	31.0	23.8	46.6	39.4	62.6	55.0							23.0	15.8
	6			20.0	11.4	27.8	19.2	43.4	34.8	59.0	50.4							27.6	19.0
	7					24.7	14.6	40.3	30.2	55.9	45.8	71.5	61.4					32.2	22.1
	8							37.1	25.6	52.7	41.2	68.3	56.8	83.9	72.4			36.8	25.3
	9							33.9	21.0	49.5	36.6	65.1	52.0	80.7	67.8	96.3	83.4	41.4	28.5
	10									46.4	32.0	62.0	47.6	77.6	63.2	93.2	78.8	46.0	31.6
	11									43.2	27.4	58.8	43.0	74.4	58.6	90.0	74.2	50.6	34.8
	12											55.6	38.4	71.2	54.0	86.8	69.6	55.2	38.0
	5	22.1	11.0	33.5	22.4	44.9	33.8	67.6	56.5	90.3	79.2							34.4	23.3

Supply pressure (Bar)		2Bar		2.5Bar		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar		Spring output moment	
Model	Spring number	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
AC92SR	6			28.8	15.6	40.2	27.0	62.9	49.7	85.6	72.4							41.2	28.0
	7					35.5	20.1	58.2	42.8	80.9	65.5	1003.6	88.2					48.1	32.7
	8							53.6	35.9	76.3	58.6	99.0	81.1	121.8	104.1			55.0	37.3
	9							48.9	29.0	71.6	51.7	94.3	74.4	117.1	97.2	139.8	119.9	61.9	42.0
	10									66.9	44.9	89.6	67.6	112.4	90.4	135.1	113.1	68.7	46.7
	11									62.2	38.0	84.9	60.7	107.7	83.5	130.4	106.2	75.6	51.4
	12											80.3	53.8	103.1	76.6	125.8	99.3	82.5	56.0
AC105SR	5	34.2	16.6	50.6	33.0	67.1	49.5	100.0	82.4	132.8	115.2							49.2	31.6
	6			44.2	23.1	60.7	39.6	93.6	72.5	126.4	105.3							59.1	38.0
	7					54.4	29.8	87.3	62.7	120.1	95.5	153.0	128.4					68.9	44.3
	8							81.0	52.9	113.8	85.7	146.7	118.6	179.6	151.5			78.7	50.6
	9							74.7	43.0	107.5	75.8	140.4	108.7	173.3	141.6	206.2	174.5	88.6	56.9
	10									101.1	66.0	134.0	98.9	166.9	131.8	199.8	164.7	98.4	63.3
	11									94.8	56.1	127.7	89.0	169.6	121.9	193.5	154.8	108.3	69.6
	12											121.4	79.2	154.3	112.1	187.2	145.0	118.1	75.9
AC125SR	5	50.5	235	76.2	49.2	101.8	74.8	153.1	126.1	204.4	177.4							79.0	52.0
	6			65.2	34.2	90.8	59.8	142.1	111.1	193.4	162.4							94.0	63.0
	7					80.8	43.8	132.1	95.1	183.4	146.4	234.6	197.6					110.0	73.0
	8							121.1	80.1	172.4	131.4	223.6	182.6	274.9	233.9			125.0	84.0
	9							111.1	64.1	162.4	115.4	213.6	186.6	264.9	217.9	316.2	269.2	141.0	94.0
	10									151.4	99.4	202.6	150.6	253.9	201.9	305.2	253.2	157.0	105.0
	11									141.4	83.4	192.6	134.6	243.9	185.9	295.2	237.2	173.0	115.0
	12											182.6	119.6	233.9	170.9	285.2	222.2	188.0	125.0
	5	89.4	46.4	133.3	90.3	177.1	134.1	264.8	211.8	352.5	309.5							129.0	86.0
	6			116.3	64.3	160.1	108.1	247.8	195.8	335.5	283.5							155.0	103.0



Supply pressure (Bar)		2Bar		2.5Bar		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar		Spring output moment	
Model	Spring number	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
AC140SR	7					143.1	82.1	230.8	169.8	318.5	257.5	406.2	345.2					181.0	120.0
	8							213.8	144.8	301.5	232.5	389.2	320.2	476.9	407.9			206.0	137.0
	9							195.8	118.8	283.5	206.5	371.2	294.2	458.9	381.9	546.6	469.6	232.0	155.0
	10									266.5	180.5	354.2	268.2	441.9	355.9	529.6	4436	258.0	172.0
	11									249.5	154.5	337.2	242.2	424.9	329.9	512.6	417.6	284.0	189.0
	12											320.2	216.2	407.9	303.9	495.6	391.6	310.0	206.0
AC160SR	5	127.3	59.3	194.1	126.1	260.9	192.9	394.6	326.6	528.2	460.2							208.0	140.0
	6			166.1	84.1	232.9	150.9	366.6	284.6	500.0	418.2							250.0	168.0
	7					204.9	108.9	338.6	242.6	472.2	376.2	605.8	509.8					292.0	196.0
	8							311.6	201.6	445.2	335.2	578.8	468.8	712.5	602.5			333.0	223.0
	9							283.6	159.6	417.2	293.2	550.8	426.8	684.5	560.5	818.1	694.1	375.0	251.0
	10									389.2	251.2	522.8	384.8	656.5	518.5	790.1	652.1	417.0	2790
	11									361.2	210.2	494.8	343.8	628.5	477.5	762.1	611.1	458.0	307.0
	12											466.8	301.8	600.5	435.5	734.1	569.1	500.0	335.0
AC190SR	5	230.7	121.7	338.4	229.4	446.1	337.1	661.5	552.5	876.9	767.9							309	200
	6			298.4	167.4	406.1	275.1	621.5	490.5	836.9	705.9							371	240
	7					366.1	213.1	581.5	428.5	796.9	643.9	1012.2	859.2					433	280
	8							541.5	366.5	756.9	581.9	972.2	797.2	1187.6	1012.6			495	320
	9							501.5	304.5	716.9	519.9	932.2	735.2	1147.6	950.6	1363	1166	557	360
	10									676.9	458.9	892.2	674.2	1107.6	889.6	1323	1105	618	400
	11									636.9	395.9	852.2	612.2	1067.6	827.6	1283	1043	680	440
	12											812.2	550.2	1027.6	765.6	1243	981	742	480
	5	251.2	146.2	382.8	277.8	514.3	409.3	777.4	672.4	1040.5	935.5							380	275
	6			327.8	201.8	459.3	333.3	722.4	596.4	985.5	859.5							456	330
	7					404.3	257.3	667.4	520.4	930.5	783.5	1193.6	1046.6					532	385

Supply pressure (Bar)		2Bar		2.5Bar		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar		Spring output moment	
Model	Spring number	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
AC210SR	8							612.4	444.4	875.5	707.5	1138.6	970.6	1401.7	1233.7			608	440
	9							557.4	368.4	820.5	631.5	1083.6	894.6	1346.7	1157.7	1609.8	1420.8	684	495
	10									765.5	555.5	1028.6	818.6	1291.7	1081.7	1554.8	1344.8	760	550
	11											710.5	479.5	973.6	742.6	1236.7	1005.7	1499.8	1268.8
	12													918.6	666.6	1181.7	929.7	1444.8	1192.8
																		912	660
AC240SR	5	363.2	219.2	556.5	412.5	749.8	605.8	1136.4	940.5	1523	1379							554	410
	6			474.5	301.5	667.8	494.8	1054.4	862.7	1441	1268							665	492
	7					584.8	384.8	971.4	742.6	1358	1158	1744.6	1544.6					775	575
	8							890.4	635.4	1277	1047	1663.6	1433.6	2050.2	1820.2			886	656
	9							807.4	536.4	1194	935	1580.6	1321.6	1967.2	1708.2	2353.8	2094.8	998	739
	10									1112	825	1498.6	1211.6	1885.2	1598.2	2271.8	1984.8	1108	821
	11									1030	714	1416.6	1100.6	1803.2	1487.2	2189.8	1873.8	1219	903
	12											1334.6	989.6	1721.2	1376.2	2107.8	1762.8	1330	985
AC270SR	5			903	675	1195	968	1779	1552									787	560
	6			790	519	1083	811	1667	1396	2252	1981							943	672
	7			679	361	972	654	1556	1238	2141	1823							1101	783
	8					860	497	1444	1081	2029	1666	2614	2250	3199	2836			1258	895
	9							1332	923	1917	1509	2502	2094	3087	2678			1416	1007
	10							1220	767	1805	1352	2390	1937	2974	2521	3560	3107	1572	1119
	11									1693	1194	2278	1779	2862	2364	3448	3170	1572	1119
	12									1582	1037	2167	1623	2751	2207	3336	2792	1887	1342

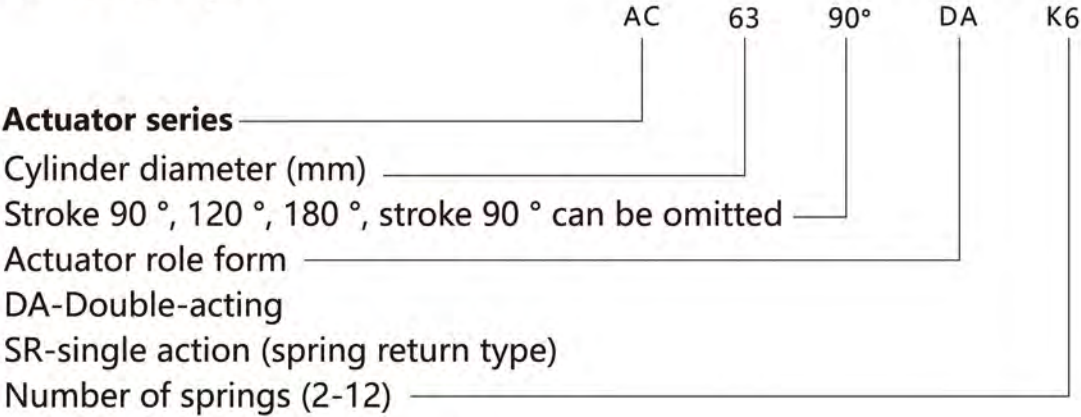
★ In addition to the above model specifications, customers can also request processing.



# Spring installation



**Selection description**  
**Model Description**



**Double-acting actuator selection**

Under normal operating conditions, double-acting actuator recommended safety factor of 15-20%.

Such as:

Valve torque =100Nm

Safety moment =100×(1+20%) =120Nm.

Air pressure =5Bar.

Double acting actuator moment table, the minimum model of the double-acting actuator is: AC105DA (the output torque at 5Bar is 164.4Nm).

**Single acting actuator type selection**

Valve needs torque =80Nm

Safety moment =80×(1+30%) =104Nm

Air pressure =5Bar

For comparison of single action actuator moment table, we can find: AC140SRK7.

Output moment

Air travel 0 ° = 318 Nm

Air travel 90 ° = 257 Nm

Spring travel 90 ° = 181Nm

Spring travel 0 ° = 120Nm

All output torque is greater than our requirement.

In the single-acting actuator matching process, if we can understand the valve opening, running and closing the torque distribution, we can more economical and more reasonable optional actuator body.

Such as:

**Handwheel**

Valve requires torque = 80Nm

Safety moment =80 ×(1+30%) =104Nm.

After valve is opened, torque =104 \* 30%=32Nm.

Air pressure =5Bar.

We can choose AC125SRK11.

Air travel 0 ° = 141 nm> 104 nm

Air travel 90 ° = 83 nm > 32 nm

Spring travel 90 ° = 173Nm> 32Nm

Spring travel 0 ° = 115Nm> 104Nm

The above data shows that the valve can meet the normal switch.



# Technical parameters

No.	Model	Gear ratio	Input moment	Output moment	Weight (kg)
1	XLHJ26	26:1	70	300	7.3
2	XLHJ38	38:1	60	550	11.8
3	XLHJ54	54:1	120	1200	17.3
4	XLHJ80	80:1	140	2000	35
5	XLHJ78A	78:1	200	3600	48.2
6	XLHJ98	98:1	300	9000	156
7	XLHJ100	100:1	400	13000	190
8	XLHJ118	118:1	900	22100	540