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# Pneumatic actuator



**Torque:** 8Nm -7500 Nm

**Control:** Double acting, Single acting

**Annex:** Solenoid valve, limit switch box, E/P positioner, hand wheel

**Travel range:** 0-90°

**Valve type:** ball valve, butterfly valve and other rotary valve

## Description

## Pneumatic actuator parameters

Indicator	Position indicator with NAMUR is convenient for mounting accessories such Limit Switch box
Pinion	The pinion is high-precision and integrative, made by mickelled-alloy steel, full conform to the latest standards of ISO5211, DIN3337, NAMUR.
Cylinder	ASTM6005 die casting aluminum alloy cylinder block, the hard oxide
End caps	Die-casting aluminum powder spraying a variety of colors

Pistons	Double piston rack, the rigid aluminum oxide, symmetric mounting position, fast operation, long service life, simple reversal of piston can change the direction of rotation.
Travel adjustment	Two independent stroke adjustment screw can be convenient, accurate to 5 ° ± regulation, position.
Spring	High performance spring using quality materials, coating, preloading assembly. Removing single simple actuator, by changing the spring quantity to meet different torque output range.
Bearing	Bearings, guide: Using low friction, long-life compound material, to avoid the direct contact between metals, repair and replacement are easy and convenient.
Seal	Normal use of nitrile rubber. High or low temperature by fluorine rubber or silicone rubber
Control	Double acting, single acting
Annex	Reversing solenoid valve, limit switch back to the hearing, the electrical positioner, hand wheel mechanism

UTPUT TORQUE OF DOUBLE ACTING ACTUATORS (Unit: N.m)

Model	Air supply pressure(Unit:bar)								
	2	2.5	3	4	4.5	5	5.5	6	7
52DA	8	10	12	16	18	20	22	24	28
63DA	15	18	22	29	33	37	40	44	51
75DA	20	25	30	40	45	50	55	60	70
83DA	31	39	47	63	71	78	86	94	110
92DA	45	56	68	90	102	113	124	135	158
105DA	66	83	99	132	149	165	182	198	230
125DA	100	125	150	201	226	251	275	301	350
140DA	171	214	257	342	385	428	470	513	599
160DA	266	333	400	532	599	665	732	798	930
190DA	426	532	638	851	958	1064	1170	1277	1490
210DA	532	665	798	1064	1197	1330	1463	1596	1862
240DA	770	962	1154	1539	1731	1924	2116	2309	2693
270DA	1170	1462	1755	2339	2632	2924	3217	3509	4094
300DA	1526	1908	2289	3052	3434	3815	4197	4578	5341
350DA	2285	2856	3427	4570	5141	5712	6283	6854	7997
400DA	3256	4070	4884	6512	7326	8140	8954	9768	11396

Output torque of air to springs

Air pressure		4Bar		5Bar		6Bar		7Bar			
Model	Spring Qty	0°st art	90°E nd	0°st art	90°E nd	0°st art	90°E nd	0°st art	90°E nd	0°st art	90°E nd
RT52 SR	10	7.4	3.6	11.5	6.7	15.5	11.6	19.5	15.6	12.4	8.5
	11	6.6	2.3	10.6	5.4	14.6	10.4	18.6	14.3	13.6	9.3
	12			9.7	4.2	13.8	9.1	17.8	12.2	14.8	10.2
RT63 SR	10	1.4	8.2	22.8	15.6	30.0	22.8	37.3	30.1	20.9	13.7
	11			21.5	13.5	28.7	20.7	36.0	28.0	22.9	15.0
	12			21.0	11.4	27.3	18.6	34.6	25.9	25.0	16.4
RT75 SR	10	19.0	11.1	28.8	21.2	39.0	31.2	49.1	41.2	29.0	21.1
	11			27.0	18.3	37.0	28.3	47.0	38.4	31.9	23.2
	12			24.9	15.4	34.9	25.4	44.9	35.4	34.7	25.3
RT83 SR	10	31.0	16.6	46.7	32.3	62.4	48.0	78.1	63.7	46.0	31.6
	11			43.6	27.7	59.3	43.4	75.0	59.1	50.6	34.8
	12			40.4	23.2	56.1	38.9	71.7	54.5	55.2	38.0
RT92 SR	10	43.6	21.5	66.2	44.1	88.8	66.7	111.3	89.2	68.7	46.7
	11			61.5	37.2	84.1	59.9	106.6	82.4	75.6	51.4
	12			56.8	30.4	79.4	53.0	101.9	75.5	82.5	56.0
RT105 SR	10	68.9	33.4	102.0	66.5	135.1	99.6	168.2	132.6	98.4	63.3
	11			95.7	57.0	128.7	90.1	161.8	123.1	108.3	69.6
	12			89.4	47.5	122.5	80.6	155.5	113.6	118.1	75.9

#### AIR CONSUMPTION

#### AIR VOLUME OPENING& CLOSING

Model	Air volume opening	Air volume closing	Model	Air volume opening	Air volume closing
RT52	0.12	0.16	RT160	3.7	3.2
RT63	0.21	0.23	RT190	5.9	5.4
RT75	0.3	0.34	RT210	7.5	7.5
RT83	0.43	0.47	RT240	11	9
RT92	0.64	0.73	RT270	17	14

RT105	0.95	0.88	RT300	23.8	29.7
RT125	1.6	1.4	RT350	35.1	46.3
RT140	2.5	2.2	RT400	52.6	56

PNEUMATIC ACTUATOR WEIGHT

Model	(DA)	(SR)	Model	(DA)	(SR)
RT52(Φ52 )	1.4kg	1.5kg	RT160(Φ160)	20.1kg	24kg
RT63(Φ63)	2.0kg	2.1kg	RT190(Φ190)	31.3kg	35.3kg
RT75(Φ75)	2.7kg	2.9kg	RT210(Φ210)	46.8kg	54.8kg
RT83(Φ83)	3.1kg	3.6kg	RT240(Φ240)	67.3kg	80.2kg
RT92(Φ92)	4.6kg	5.2kg	RT270(Φ270)	96.9kg	118kg
RT105(Φ105)	6.8kg	6.9kg	RT300(Φ300)	110kg	130kg
RT125(Φ125)	9.0kg	10.1kg	RT350(Φ350)	186kg	234kg
RT140(Φ140)	13.2kg	15.6kg	RT400(Φ400)	289kg	360kg

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