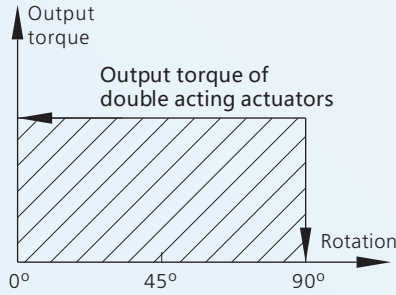




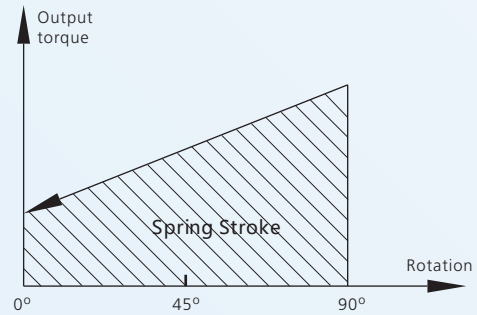
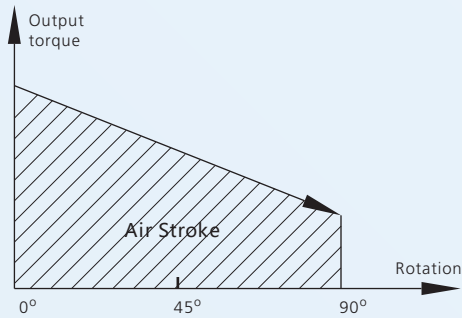
## Output torque

### For Double Acting Actuator



Output Torque of C Series Pneumatic Actuator with Double Acting (unit:Nm)										
Model	Air pressure(Bar)									
	2	2.5	3	4	4.5	5	5.5	6	7	8
C40DA	4.8	6	7.2	9.5	10.7	11.9	13.1	14.3	16.7	19.1
C52DA	8.0	10.0	12.0	16.0	18.0	20.0	21.9	23.9	27.9	31.9
C63DA	14.6	18.2	21.9	29.2	32.8	36.5	40.1	43.8	51.1	58.4
C75DA	20.1	25.1	30.1	40.1	45.1	50.2	55.2	60.2	70.2	80.3
C83DA	31.4	39.2	47.0	62.7	70.5	78.4	86.2	94.1	109.7	125.4
C92DA	45.1	56.4	67.7	90.3	101.6	112.9	124.1	135.4	158.0	180.6
C105DA	66.1	82.7	99.2	132.2	148.8	165.3	181.8	198.4	231.4	264.5
C125DA	100.3	125.4	150.5	200.6	225.7	250.8	275.9	301.0	351.1	401.3
C140DA	171.0	213.8	256.5	342.0	384.8	427.5	470.3	513.0	598.5	684.0
C160DA	266.0	332.5	399.0	532.0	598.5	665.0	731.5	798.0	931.0	1064.0
C190DA	425.6	532.0	638.4	851.2	957.6	1064.0	1170.4	1276.8	1489.6	1702.4
C210DA	532.0	665.0	798.0	1064.0	1197.0	1330.0	1463.0	1596.0	1862.0	2128.0
C240DA	769.5	961.9	1154.3	1539.0	1731.4	1923.8	2116.1	2308.5	2693.3	3078.0
C270DA	1169.6	1462.1	1754.5	2339.3	2631.7	2924.1	3216.5	3508.9	4093.7	4678.6
C300DA	1526	1908	2289	3052	3434	3815	4197	4578	5341	6104
C350DA	2285	2856	3427	4570	5141	5712	6283	6854	7997	9139
C400DA	3256	4070	4884	6512	7326	8140	8954	9768	11396	13024

### For spring return actuator



Output Torque of C Series Pneumatic Actuator with Spring Return (unit:Nm)																			
Model	Spring Q.TY	Air pressure(Bar)																Springs' output	
		2		2.5		3		4		5		6		7		8		90°	0°
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°		
C52SR	4	4.6	3.0	6.6	5.0	8.6	7.0											5.0	3.4
	5			5.7	3.8	7.6	5.7											6.2	4.3
	6			4.9	2.5	6.9	4.5	10.9	8.5									7.4	5.0
	7			4.0	1.3	6.0	3.3	9.8	7.3	14.0	10.4							8.6	5.9
	8					5.2	2.0	9.2	6.0	13.2	9.1	17.2	14.1					9.9	6.7
	9					4.3	0.8	8.3	4.8	12.3	7.9	16.3	12.8	20.3	16.8			11.1	7.6
	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	22.6	18.3	13.6	9.3
C63SR	4	9.2	6.3	12.8	9.9	16.5	13.6	23.8	20.9									14.8	10.2
	5			11.4	7.7	15.0	11.4	22.3	14.9									10.4	6.8
	6			10.1	5.7	13.6	9.3	20.9	16.6	28.3	23.9							12.5	8.2
	7			8.6	3.6	12.5	7.2	19.5	14.5	26.8	21.9							14.6	9.6
	8					10.9	5.1	18.2	12.4	25.5	19.8	32.8	27.0	40.1	34.3			16.7	10.9
	9							16.8	10.4	24.1	17.7	31.4	24.9	38.7	32.2			18.8	12.3
	10							15.5	8.2	22.8	15.6	30.0	22.8	37.3	30.1	44.7	37.4	20.9	13.7
	11									21.5	13.5	28.7	20.7	36.0	28.0	43.3	35.3	22.9	15.0
12									20.0	11.4	27.3	18.6	34.6	25.9	41.9	33.3	25.0	16.4	

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# Output Torque

Output Torque of C Series Pneumatic Actuator with Spring Return (unit:Nm)																				
Model	Spring Q.TY	Air pressure(Bar)																Springs' output		
		2		2.5		3		4		5		6		7		8				
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	90° Start	0° End	
C75SR	4	11.7	8.5	16.7	13.5	21.7	18.5	31.7	28.5									11.6	8.4	
	5			14.5	10.6	19.4	15.5	29.5	25.7									14.5	10.5	
	6			12.4	7.6	17.3	12.6	27.4	22.7	37.5	32.8							17.4	12.7	
	7			10.4	4.8	15.2	9.7	25.3	19.9	35.4	29.9							20.3	14.8	
	8					13.1	6.8	23.1	16.9	33.3	27.0	43.2	37.0	53.3	47.0			23.2	16.9	
	9							21.0	14.1	31.2	24.1	41.1	34.1	51.2	44.2			26.1	19.0	
	10							19.0	11.1	28.8	21.2	39.0	31.2	49.1	41.2	59.1	51.2	29.0	21.1	
	11									27.0	18.3	37.0	28.3	47.0	38.4	57.0	48.4	31.9	23.2	
	12									24.9	15.4	34.9	25.4	44.9	35.4	54.9	45.4	34.7	25.3	
	C83SR	4	18.7	13.0	26.5	20.8	34.3	28.6	50.0	44.3									18.4	12.7
		5			23.7	16.1	31.1	24.0	46.8	37.9									23.0	15.8
		6			20.1	11.5	28.0	19.3	43.7	35.1	59.4	50.7							27.6	19.0
7				17.0	6.9	24.8	14.8	40.5	30.5	56.2	46.2							32.2	22.1	
8						21.7	10.1	37.4	25.8	53.1	41.5	68.8	57.2	84.5	72.9			36.8	25.3	
9								34.2	21.3	49.9	37.0	65.6	52.6	81.2	68.3			41.4	28.5	
10								31.0	16.6	46.7	32.3	62.4	48.0	78.1	63.7	93.8	79.3	46.0	31.6	
11										43.6	27.7	59.3	43.4	75.0	59.1	90.6	74.8	50.6	34.8	
12										40.4	23.2	56.1	38.9	71.7	54.5	87.4	70.2	55.2	38.0	
C92SR		4	26.4	17.6	37.3	28.9	49.0	40.2	71.6	62.8									27.5	18.7
		5			33.1	22.0	44.2	33.2	66.8	55.9									34.4	23.3
		6			28.4	15.2	39.6	26.4	62.2	49.0	84.8	71.6							41.2	28.0
	7			23.8	8.2	34.9	19.4	57.5	42.1	80.2	64.7							48.1	32.7	
	8					31.3	12.6	52.9	35.2	75.5	57.9	98.1	80.5	120.7	103.0			55.0	37.3	
	9							48.2	28.4	70.9	51.0	93.5	73.6	116.0	96.1			61.9	42.0	
	10							43.6	21.5	66.2	44.1	88.8	66.7	111.3	89.2	134.0	111.8	68.7	46.7	
	11									61.5	37.2	84.1	59.9	106.6	82.4	129.2	105.0	75.6	51.4	
	12									56.8	30.4	79.4	53.0	101.9	75.5	124.5	98.1	82.5	56.0	
	C105SR	4	40.8	26.7	57.4	43.3	73.9	59.8	106.9	92.8									39.4	25.3
		5			51.0	33.4	67.5	49.9	100.6	83.0									49.2	31.6
		6			44.7	23.5	61.1	40.0	94.2	73.2	127.3	106.2							59.1	38.0
7				38.4	13.7	54.9	30.3	87.9	63.4	121.0	96.4							68.9	44.3	
8						48.5	20.4	81.6	53.5	114.7	86.5	147.7	119.6	180.8	152.7			78.7	50.6	
9								75.3	43.7	108.4	76.8	141.5	109.8	174.5	142.9			88.6	56.9	
10								68.9	33.4	102.0	66.5	135.1	99.6	168.2	132.6	201.2	165.7	98.4	63.3	
11										95.7	57.0	128.7	90.1	161.8	123.1	194.8	156.2	108.3	69.6	
12										89.4	47.5	122.5	80.6	155.5	113.6	188.6	146.7	118.1	75.9	
C125SR		4	58.7	37.1	83.8	62.2	108.9	87.3	159	137.4									63.2	41.6
		5			73	47	98	72	148	122									79	52
		6			63	31	88	56	138	107	188	157							94	63
	7			52	15	77	40	127	90	178	141							110	73	
	8					67	25	117	75	167	125	217	176	268	226			125	84	
	9							107	59	157	109	207	159	257	210			141	94	
	10							96	44	146	94	196	144	247	194	297	245	157	105	
	11									136	78	186	128	236	178	286	228	173	115	
	12									125	63	176	113	226	163	276	213	188	125	
	C140SR	4	102.2	67.8	145	110.6	187.7	153.3	273.2	238.8									103.2	68.8
		5			128	85	171	127	256	213									129	86
		6			111	59	154	102	239	187	325	273							155	103
7				94	33	137	76	222	162	308	247							181	120	
8						120	50	205	136	291	221	376	307	462	392			206	137	
9								187	110	273	196	358	281	444	367			232	155	
10								170	84	256	169	341	255	427	340	512	426	258	172	
11										238	143	324	229	409	314	495	400	284	189	
12										221	118	307	203	392	289	478	374	310	206	
C160SR		4	154.0	99.6	220.5	166.1	287	232.6	420	365.6									166.4	112
		5			193	124	259	191	392	324									208	140
		6			165	83	232	149	365	282	498	415							250	168
	7			137	41	203	107	336	240	469	373							292	196	
	8					176	66	309	199	442	332	575	465	708	598			333	223	
	9							280	157	413	290	546	423	679	556			375	251	
	10							253	115	386	248	519	381	652	514	785	647	417	279	
	11									358	207	491	340	624	473	757	606	458	307	
	12									330	165	463	298	596	431	729	564	500	335	

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Output Torque of C Series Pneumatic Actuator with Spring Return (unit:Nm)																				
Model	Spring Q.TY	Air pressure(Bar)																Springs' output		
		2		2.5		3		4		5		6		7		8				
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	
C190SR	4	265.6	178.4	372	284.8	478.4	391.2	691.2	604									247.2	160	
	5			332	222	438	329	651	542									309	200	
	6			292	161	398	267	611	480	824	693							371	240	
	7			252	99	358	205	571	418	784	631							433	280	
	8					318	143	531	356	744	569	957	782	1169	995			495	320	
	9							491	295	704	507	917	720	1130	933			557	360	
	10							451	233	664	446	877	658	1090	871	1302	1084	618	400	
	11									624	384	837	597	1050	809	1263	1022	680	440	
	12									584	322	797	535	1010	748	1223	960	742	480	
	C210SR	4	312.0	228.0	445	361	578	494	844	760									304	220
		5			390	285	523	418	789	684									380	275
		6			335	209	468	342	734	608	1000	874							456	330
7				280	133	413	266	679	532	945	798							532	385	
8						358	190	624	456	890	722	1156	988	1422	1254			608	440	
9								569	380	835	646	1101	912	1367	1178			684	495	
10								514	304	780	570	1046	836	1312	1102	1578	1368	760	550	
11										725	494	991	760	1257	1026	1523	1292	836	605	
12										670	418	936	684	1202	950	1468	1216	912	660	
C240SR		4	441.5	326.3	633.9	518.7	826.3	711.1	1211	1095.8									443.2	328
		5			552	409	744	600	1129	985									554	410
		6			470	297	662	489	1047	874	1432	1259							665	490
	7			388	187	580	379	964	764	1349	1149							775	575	
	8					498	268	883	653	1267	1037	1652	1422	2037	1807			886	656	
	9							800	542	1185	926	1569	1311	1954	1696			998	739	
	10							718	431	1103	816	1488	1201	1872	1586	2257	1970	1108	821	
	11									1021	705	1406	1090	1791	1471	2176	1859	1219	903	
	12									939	594	1323	979	1708	1363	2093	1748	1330	985	
	C270SR	4	721.6	540.0	1014.1	832.5	1306.5	1124.9	1891.3	1709.7									629.6	448
		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	2252	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	1197	2278	1779	2862	2364	3448	2949	1730	1231	
12										1582	1037	2167	1623	2751	2207	3336	2792	1887	1342	
C300SR		4	942.0	611.2	1324	1059.2													848.8	584
		5			1097	729													1061	730
		6			935	494	1316	875											1273	876
	7			772	258	1153	639	1916	1402									1485	1022	
	8					991	403	1754	1166	2517	1929							1697	1168	
	9							1592	930	2355	1693	3118	2456					1909	1314	
	10							1430	695	2193	1458	2956	2221	3719	2984	4482	3747	2122	1460	
	11									2030	1222	2793	1985	3556	2748	4319	3511	2334	1606	
	12									1868	986	2631	1749	3394	2512	4157	3275	2546	1752	
	C350SR	4	1346.6	923.4	1917.6	1494.4													1361.6	938.4
		5			1553	964													1702	1173
		6			1292	586	1863	1157											2043	1408
7				1031	208	1602	779	2745	1922									2383	1640	
8						1341	401	2484	1544	3626	2686							2724	1877	
9								2224	1165	3366	2307	4508	3449					3064	2112	
10								1963	787	3105	1929	4247	3071	5390	4214	6532	5356	3405	2346	
11										2844	1551	3986	2693	5129	3836	6271	4978	3745	2581	
12										2584	1172	3726	2314	4869	3457	6011	4599	4086	2816	
C400SR		7			2028	869													2880	1837
		8			1736	411	2550	1225											3292	2100
		9					2259	768	3887	2396									3703	2362
	10					1967	311	3595	1939	5223	3567							4115	2624	
	11							3303	1482	4931	3110	6559	4738					4526	2887	
	12							3012	1025	4640	2653	6268	4281	7895	5908	9523	7536	4938	3149	
	13									4348	2195	5976	3823	7603	5450	9231	7078	5349	3412	
	14									4057	1738	5685	3366	7312	4993	8940	6621	5761	3674	
	15									3765	1281	5393	2909	7020	4536	8648	6164	6172	3937	
	16											5101	2452	6728	4079	8356	5707	6584	4199	

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