

double acting torque outputs - metric units Nm

actuator model	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
	pressure (bar)											
OMO-100	0.1	0.2	0.25	0.35	0.4	0.5	0.55	0.6	0.7	0.75	0.85	0.9
01-100	1.1	1.6	2.1	2.6	3.0	3.5	4.0	4.5	5.1	5.6	6.1	6.7
02-100	1.8	2.7	3.6	4.6	5.5	6.4	7.3	8.2	9.2	10.2	11.1	12.1
03-100	3.9	5.8	7.6	9.6	11.5	13.4	15.4	17.4	19.3	21.3	23.2	25.3
05-100	9.0	12.5	16.5	20.0	24.0	27.5	31.5	35.0	39.0	43.0	46.5	50.5
07-100	22.0	30.5	39.5	48.5	57.5	66.5	76.0	85.5	95.0	105.0	114.0	124.0
08-100	31	44	57	69	82	95	108	121	134	147	160	173
09-100	46	64	83	102	121	140	159	179	199	220	241	261
10-100	80	111	141	172	202	232	263	294	325	355	385	416
12-100	103	147	190	232	275	319	360	403	446	490	532	575
14-100	265	360	460	560	660	760	870	975	1080	1180	1280	1375
16-100	640	860	1090	1310	1530	1750	1980	2200	2420	2650	2870	3100
18-100	1250	1750	2250	2750	3250	3750	4300	4850	5400	5950	6400	6900
20-100	2480	3440	4400	5310	6290	7230	8160	9090	10020	10960	11890	12760

spring return torque outputs - metric units Nm

actuator model	position of air OR spring return stroke	1.7	2.0	2.4	2.8	3.1	3.5	3.8	4.1	4.5	4.8	5.2	5.5
		pressure setting (bar)											
01-120	Start						1.5		1.7		1.9		2.3
	Finish						0.9		1.1		1.5		1.8
02-120	Start						3.0	3.4	3.6	3.8	4.2	4.4	4.7
	Finish						1.4	1.7	2.0	2.4	2.8	3.3	3.7
03-120-5600	Start	2.8	3.4	4.1	4.8	5.3	5.7						
	Finish	2.1	2.8	3.5	4.2	4.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
03-120	Start						6.3	6.9	7.5	8.1	8.9	9.5	10.3
	Finish						4.1	4.7	5.5	6.4	7.2	7.8	8.7
05-120	Start						13.0	14.1	15.3	16.4	18.1	19.2	20.9
	Finish						8.5	9.6	11.3	13.0	14.7	15.8	17.5
07-120-4000	Start	9.0	11.9	15.3	18.6	22.0							
	Finish	5.1	8.5	11.9	15.3	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
07-120	Start						30.5	33.9	37.3	40.7	43.5	46.9	50.8
	Finish						19.8	23.7	27.1	30.5	34.4	38.4	42.4
08-120-4100	Start	18.6	23.7	27.1	31.1	35.0	39.5	44.1	48.0	52.5	56.5		
	Finish	7.9	13.6	16.9	20.9	26.0	30.5	35.0	39.0	43.5	47.5	47.5	47.5
08-120	Start									56.5	61.0	65.5	70.6
	Finish									45.2	50.3	54.8	59.9
09-120-4200	Start	26.0	31.6	37.3	44.1	50.8							
	Finish	14.7	21.5	28.2	35.0	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
09-120	Start						61.0	67.8	74.6	81.9	89.3	96.6	104.0
	Finish						50.3	56.5	63.8	71.2	79.1	86.4	93.8
10-120-5800	Start	56.0	65.0	77.0	89.0	97.0	108.0						
	Finish	41.8	52.0	64.0	77.2	86.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10-120	Start						107.0	115.5	124.0	136.0	145.0	155.9	164.0
	Finish						78.0	90.0	102.0	114.6	124.0	134.9	143.0
12-120-4300	Start	54.0	68.9	83.6									
	Finish	42.9	57.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
12-120-4400	Start			89.3	103.0	117.0	132.0	147.0	161.0	176.0	191.0		
	Finish			66.1	80.2	94.9	110.0	124.0	139.0	154.0	168.0	168.0	168.0
12-120	Start						145.0	160.0	176.0	191.0	206.0	221.0	238.0
	Finish						111.0	127.0	142.0	158.0	174.0	189.0	204.0
14-120-4900	Start	192.0	220.0	249.0	288.0	322.0	356.0	390.0	424.0	469.0	497.0	529.0	529.0
	Finish	119.0	158.0	186.0	220.0	254.0	288.0	322.0	356.0	390.0	418.0	447.0	447.0
14-120	Start						374.0	408.0	442.0	479.0	517.0	554.0	588.0
	Finish						249.0	290.0	330.0	367.0	406.0	443.0	478.0
14-120-5000	Start	172.0	208.0	237.0									
	Finish	140.0	174.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
16-120-6100	Start	359.0	428.0	497.0									
	Finish	245.0	333.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0
16-120-6000	Start			514.0	583.0	652.0	722.0						
	Finish			404.0	492.0	580.0	668.0	668.0	668.0	668.0	668.0	668.0	668.0
16-120	Start						864.0	939.0	1004.0	1097.0	1165.0	1256.0	1321.0
	Finish						576.0	660.0	742.0	832.0	906.0	1002.0	1081.0
18-120-7000	Start	807.0	970.0	1182.0	1260.0								
	Finish	484.0	736.0	967.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0	1040.0
18-120	Start				1457.0	1637.0	1875.0	2053.0	2206.0	2426.0	2585.0	2800.0	2954.0
	Finish				874.0	1036.0	1250.0	1441.0	1630.0	1840.0	2011.0	2234.0	2417.0
20-120-7200	Start	1621.0	1940.0	2325.0	2692.0								
	Finish	1025.0	1362.0	1763.0	2203.0	2203.0	2203.0	2203.0	2203.0	2203.0	2203.0	2203.0	2203.0
20-120-7300	Start				2788.0	3072.0	3471.0	3739.0	4023.0				
	Finish				1958.0	2271.0	2632.0	2983.0	3291.0	3291.0	3291.0	3291.0	3291.0
20-120	Start							4121.0	4514.0	4798.0	5181.0	5456.0	
	Finish							3046.0	3423.0	3732.0	4133.0	4464.0	

Torque outputs identical for Counter Clockwise Models. *Italic* figures apply to spring end torque only - air end torque will be greater.

double acting torque outputs - english units lbf/ins

actuator model	20	30	40	50	60	70	80	90	100
	pressure (psi)								
	1	2	3	3.5	4.5	5	6	7	8
OMO-100	1	2	3	3.5	4.5	5	6	7	8
01-100	9	15	21	26	32	39	45	51	58
02-100	14	25	36	48	59	70	82	93	105
03-100	29	53	77	101	124	148	173	196	220
05-100	70	116	160	205	250	300	346	393	440
07-100	175	280	390	500	610	730	850	960	1080
08-100	250	405	560	710	870	1030	1190	1350	1510
09-100	360	590	820	1050	1280	1530	1780	2020	2280
10-100	640	1020	1390	1760	2130	2500	2880	3250	3625
12-100	830	1350	1870	2400	2900	3440	3970	4480	5000
14-100	2150	3350	4550	5800	7000	8300	9600	10800	12000
16-100	5200	7900	10600	13400	16100	18800	21600	24300	27000
18-100	10000	16100	22200	28300	34500	41300	48000	54500	60000
20-100	20000	32000	43000	54500	66000	78000	89000	100500	112000

spring return torque outputs - english units lbf/ins

actuator model	position of air OR spring return stroke	20	30	35	40	45	50	55	60	65	70	75	80
		pressure setting (psi)											
01-120	Start						13		15		17		20
	Finish						8		10		13		16
02-120	Start						27	30	32	34	37	39	42
	Finish						12	15	18	21	25	29	33
03-120-5600	Start	25	30	36	42	47	50						
	Finish	19	25	31	37	42	45	45	45	45	45	45	45
03-120	Start						56	61	66	71	79	84	91
	Finish						37	41	49	56	64	69	77
05-120	Start						115	125	135	145	160	170	185
	Finish						75	85	100	115	130	140	155
07-120-4000	Start	80	105	135	165	195							
	Finish	45	75	105	135	160	160	160	160	160	160	160	160
07-120	Start						270	300	330	360	385	415	450
	Finish						175	210	240	270	305	340	375
08-120-4100	Start	165	210	240	275	310	350	390	425	465	500		
	Finish	70	120	150	185	230	270	310	345	385	420	420	420
08-120	Start									500	540	580	625
	Finish									400	445	485	530
09-120-4200	Start	230	280	330	390	450							
	Finish	130	190	250	310	370	370	370	370	370	370	370	370
09-120	Start						540	600	660	725	790	855	925
	Finish						445	500	565	630	700	765	830
10-120-5800	Start	500	587	683	760	886	953						
	Finish	366	472	568	645	780	847	847	847	847	847	847	847
10-120	Start						950	1025	1100	1190	1280	1365	1450
	Finish						690	795	900	1000	1100	1185	1270
12-120-4300	Start	480	610	740									
	Finish	380	510	640	640	640	640	640	640	640	640	640	640
12-120-4400	Start			790	910	1040	1170	1300	1430	1560	1690		
	Finish			585	710	840	970	1100	1230	1360	1490	1490	1490
12-120	Start						1280	1415	1555	1690	1825	1960	2110
	Finish						985	1125	1260	1400	1540	1670	1810
14-120-4900	Start	1700	1950	2200	2550	2850	3150	3450	3750	4150	4400	4680	4680
	Finish	1050	1400	1650	1950	2250	2550	2850	3150	3450	3700	3960	3960
14-120	Start						3310	3610	3915	4240	4580	4900	5200
	Finish						2205	2570	2920	3250	3595	3920	4230
14-120-5000	Start	1520	1840	2100									
	Finish	1240	1540	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750
16-120-6100	Start	3178	3790	4401									
	Finish	2172	2950	3729	3729	3729	3729	3729	3729	3729	3729	3729	3729
16-120-6000	Start			4551	5163	5774	6386						
	Finish			3579	4357	5136	5914	5914	5914	5914	5914	5914	5914
16-120	Start						7646	8310	8885	9708	10310	11116	11691
	Finish						5098	5841	6567	7363	8018	8868	9567
18-120-7000	Start	7142	8585	10461	11151								
	Finish	4283	6514	8558	9204	9204	9204	9204	9204	9204	9204	9204	9204
18-120	Start				12894	14487	16594	18169	19523	21470	22877	24780	26143
	Finish				7735	9169	11063	12753	14426	16284	17797	19771	21390
20-120-7200	Start	14346	17169	20576	23824								
	Finish	9071	12054	15603	19497	19497	19497	19497	19497	19497	19497	19497	19497
20-120-7300	Start				24674	27187	30718	33090	35604				
	Finish				17328	20098	23293	26400	29125	29125	29125	29125	29125
20-120	Start								36471	39949	42462	45852	48286
	Finish								26957	30294	33028	36577	39506

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