

## Output Torque for Double Acting Actuators

Torque Output (Inch Lbs)					
Series No.	40 PSI 3 BAR	60 PSI 4.5 BAR	<b>80 PSI 5.5 BAR</b>	100 PSI 7 BAR	120 PSI 8BAR
<b>20-0050</b>	81	121	<b>147</b>	187	215
<b>20-0075</b>	168	197	<b>204</b>	257	292
<b>20-0100</b>	192	292	<b>354</b>	451	513
<b>20-0150</b>	274	407	<b>496</b>	628	717
<b>20-0200</b>	416	628	<b>761</b>	974	1106
<b>20-0300</b>	611	912	<b>1106</b>	1416	1611
<b>20-0400</b>	876	1319	<b>1602</b>	2045	2337
<b>20-0500</b>	1363	2045	<b>2496</b>	3186	3638
<b>20-0600</b>	2328	3496	<b>4275</b>	5435	6205
<b>20-0700</b>	3549	5328	<b>6505</b>	8285	9471
<b>20-0800</b>	5727	8585	<b>10488</b>	13347	15250
<b>20-0900</b>	6992	10480	<b>12816</b>	16304	18623
<b>20-1000</b>	10267	15401	<b>18826</b>	23960	27376
<b>20-2000</b>	15587	23384	<b>28580</b>	36378	41573
<b>20-3000</b>	20260	30394	<b>37148</b>	47273	54027
<b>20-4000</b>	30332	45503	<b>55611</b>	70781	80889
<b>20-5000</b>	43228	64834	<b>79243</b>	100948	115258

## Output Torque for Spring Return Actuators

Series No.	Number of Springs	Closing Torque ( Spring )		Torque Output (Inch Lbs)									
				40 PSI / 3 BAR		60 PSI / 4.5 BAR		<b>80 PSI / 5.5 BAR</b>		100 PSI / 7 BAR		120 PSI / 8 BAR	
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
<b>21-0050</b>	6	49	31	48	30								
	8	<b>66</b>	<b>41</b>	38	12	64	39	<b>90</b>	<b>65</b>				
	10	82	52			54	22	<b>80</b>	<b>58</b>	133	101	161	129
	12	99	62					<b>69</b>	<b>31</b>	122	84	150	112
<b>21-0075</b>	6	66	45	64	42	99	80	<b>135</b>	<b>113</b>				
	8	<b>88</b>	<b>60</b>			83	55	<b>155</b>	<b>127</b>	191	162		
	10	110	76					<b>139</b>	<b>105</b>	175	142	211	177
	12	131	91							160	118	196	155
<b>21-0100</b>	6	115	73	120	82	184	146	<b>248</b>	<b>213</b>				
	8	<b>151</b>	<b>98</b>			160	116	<b>231</b>	<b>176</b>	355	301		
	10	186	124					<b>204</b>	<b>142</b>	328	266	390	328
	12	222	151							310	231	372	293
<b>21-0150</b>	6	160	116	160	116	239	204	<b>333</b>	<b>293</b>				
	8	<b>213</b>	<b>151</b>			213	160	<b>390</b>	<b>337</b>	478	425		
	10	257	195					<b>354</b>	<b>284</b>	443	372	532	461
	12	284	213					<b>337</b>	<b>257</b>	425	346	514	434

Note: 1. Torques are in inch pounds.  
 2. All torques are actual.



## Output Torque for Spring Return Actuators

Series No.	Number of Springs	Closing Torque ( Spring )		Torque Output (Inch Lbs)									
		Start	End	40 PSI / 3 BAR		60 PSI / 4.5 BAR		80 PSI / 5.5 BAR		100 PSI / 7 BAR		120 PSI / 8 BAR	
				Start	End	Start	End	Start	End	Start	End	Start	End
21-0200	6	248	169	248	178	385	310	523	452				
	8	328	231			337	231	470	372	743	647		
	10	408	280					437	346	691	567	832	701
	12	496	337					400	272	638	478	771	620
21-0300	6	372	248	363	239	558	443	762	647				
	8	487	337			478	318	682	523	1080	930		
	10	611	417					594	399	1001	806	1204	1009
	12	735	496					580	382	921	682	1115	885
21-0400	6	531	336	540	354	832	646	1124	938				
	8	699	451			717	469	1009	761	1593	1345		
	10	876	566					903	584	1478	1168	1770	1460
	12	1053	673							1372	1000	1655	1283
21-0500	6	832	558	805	531	1266	991	1717	1438				
	8	1106	743			1080	717	1531	1168	2434	2071		
	10	1390	929					1372	885	2248	1788	2700	2248
	12	1664	1106							2071	1514	2531	1974
21-0600	6	1372	912	1425	965	2195	1735	2974	2514				
	8	1823	1213			1894	1283	2673	2058	4213	3611		
	10	2284	1522					2360	1602	3912	3151	4691	3930
	12	2744	1823							3611	2691	4390	3461
21-0700	6	2213	1487	2062	1337	3248	2523	4426	3700				
	8	2947	1974			2762	1788	3948	2947	6311	5337		
	10	3691	2469					3452	2230	5815	4594	7001	5771
	12	4426	2965							5319	3859	6505	5036
21-0800	6	3284	2124	3602	2443	5505	4346	7399	6240				
	8	4381	2832			4788	3239	6691	5142	10506	8957		
	10	5470	3540					5983	4054	9798	7869	11710	9780
	12	6567	4248							9090	6771	11002	8683
21-0900	6	4036	2921	4063	2947	6390	5275	8718	7603				
	8	5381	3894			5426	3930	7745	6258	12400	10913		
	10	6727	4868					6771	4912	11427	9568	13574	11896
	12	8072	5842							10453	8223	12781	10550
21-1000	6	5886	4089	5904	4372	9329	7798	12754	11223				
	8	7843	5806			7877	5842	11303	9267	18145	16109		
	10	9807	7267					9842	7302	16684	14144	20101	17560
	12	11772	8718							15223	12179	18649	15595

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## Output Torque for Spring Return Actuators

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				40 PSI / 3 BAR		60 PSI / 4.5 BAR		80 PSI / 5.5 BAR		100 PSI / 7 BAR		120 PSI / 8 BAR	
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
<b>21-2000</b>	6	7913	5629	9329	6798								
	<b>8</b>	<b>10550</b>	<b>7506</b>			12453	9072	<b>17649</b>	<b>14268</b>				
	10	13188	9382					<b>15560</b>	<b>11338</b>	25951	21729	31147	26925
	12	15826	11258							23871	18800	29067	23995
<b>21-3000</b>	6	11267	7753	11648	7745								
	<b>8</b>	<b>15020</b>	<b>10338</b>			15525	10320	<b>22278</b>	<b>17074</b>				
	10	18782	12922					<b>19410</b>	<b>32917</b>	32917	26411	39670	33165
	12	22535	15507							30040	22234	36794	28987
<b>21-4000</b>	6	18083	12462	16489	10241								
	<b>8</b>	<b>24110</b>	<b>16613</b>					<b>32094</b>	<b>23774</b>				
	10	30138	20764					<b>27482</b>	<b>17074</b>	47707	37298	57815	47406
	12	36165	24924							43096	30598	53203	40706
<b>21-5000</b>	10	36422	23225					<b>46229</b>	<b>42784</b>				
	<b>12</b>	<b>43706</b>	<b>27872</b>					<b>55896</b>	<b>41833</b>	69879	52292	84288	66701
	14	50991	32519					<b>51775</b>	<b>35354</b>	64719	44193	79128	58602
	16	58275	37165							59550	36103	73959	50513

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