

Torques (Lb-Inch)

Actuator Weights (Lb)											
Size	045	055	065	075	085	100	115	125	150	175	200
Double Acting	1.8	3.1	4.8	6.2	8.8	12.8	19.2	24.5	42.3	62.8	99.2
Spring Return	2.2	3.5	5.7	7.3	10.8	15.2	22.9	30.0	51.4	75.8	122.3

Double Acting Actuator Torque Data (Lb-Inch)						
Size	Air Supply Pressure (Psi)					
	40	60	80	90	100	120
045	80	97	142	150	177	203
055	133	177	248	274	319	363
065	221	292	407	443	522	593
075	336	451	620	673	788	903
085	487	655	894	974	1142	1301
100	752	1000	1381	1505	1752	2000
115	1239	1655	2274	2478	2894	3310
125	1611	2151	2956	3221	3761	4301
150	2788	3717	5106	5576	6505	7434
175	4142	5514	7584	8275	9655	11036
200	6310	8408	11558	12611	14718	16815

Actuator Volumes (Inch ³)											
Size	045	055	065	075	085	100	115	125	150	175	200
Opening	4.6	9.2	15.9	23.2	34.2	51.3	88.8	113.8	196.2	289.3	433.3
Closing	4.7	12.2	24.4	34.2	52.5	74.4	119.3	162.3	272.5	408.9	648.1

Actuator Speeds (sec.) are at 80 Psi & Orifice dia. of approx 0.16 inch.											
Size	045	055	065	075	085	100	115	125	150	175	200
Open Stroke/ Close Stroke	0.2	0.3	0.35	0.45	0.6	0.8	1.0	1.3	1.5	2.0	3.5

Spring Return Actuator Torque Data (Lb-Inch)																	
Size	Spring/ Piston	Air Supply Pressure (Psi)														Spring Stroke	
		40		60		80		90		100		120					
		PB	PE	PB	PE	PB	PE	PB	PE	PB	PE	PB	PE	SB	SE		
045	2	44	18	71	44	106	88	115	97	142	124	168	150	53	26		
	3					88	53	106	71	133	97	150	124	71	44		
	4					74	29	89	44	115	71	142	89	99	59		
055	3	88	53	133	97	203	168							71	44		
	4			115	71	186	142	203	168	248	212			97	62		
	5					168	115	186	142	239	186	283	230	124	71		
065	3	142	97	221	168	327	283							115	71		
	4			195	124	301	239	336	274	416	345			150	97		
	5					274	195	310	230	389	310	460	381	186	115		
075	3	195	115	310	230	478	398							195	133		
	4			257	159	425	327	487	381	593	496			266	177		
	5					381	248	434	310	549	416	664	531	327	212		
085	3	292	186	451	345	699	593							274	177		
	4			389	239	637	487	717	566	876	735			363	239		
	5					566	389	646	469	814	628	974	788	460	292		
100	3	451	274	699	522	1080	903							434	266		
	4			602	363	982	743	1106	867	1354	1115			575	354		
	5					885	584	1009	708	1257	956	1505	1204	717	443		
115	3	761	487	1177	894	1797	1522							681	434		
	4			1018	646	1637	1266	1841	1469	2257	1885			912	575		
	5					1478	1018	1682	1221	2098	1637	2514	2044	1133	717		
125	3	1000	646	1540	1186	2345	1991							867	549		
	4			1336	867	2142	1673	2407	1938	2947	2478			1159	735		
	5					1938	1354	2204	1620	2744	2160	3275	2691	1443	920		
150	3	1575	1000	2505	1929	3903	3319							1611	1089		
	4			2106	1336	3496	2726	3965	3195	4894	4116			2142	1451		
	5					3098	2133	3558	2593	4487	3523	5417	4452	2682	1814		
175	3	2443	1602	3823	2983	5894	5054							3222	2177		
	4			3266	2142	5328	4213	6018	4903	7399	6275			2283	1522		
	5					4770	3363	5461	4054	6833	5434	8213	6815	3797	2540		
200	3	3717	2514	5824	4620	8975	7771							3416	2328		
	4			4956	3354	8116	6505	9160	7558	11267	9656			4549	3107		
	5					7249	5240	8302	6293	10400	8399	12506	10497	5691	3877		
	6					6390	3974	7435	5027	9541	7134	11639	9231	6824	4655		

Actual torques are in the range of ±5% of the above values.

In between torque values to be interpolated.

SE= Spring End Torque, SB= Spring Break Torque, PE= Pneumatic End Torque, PB= Pneumatic Break Torque