

Torque Ratings – HD-Series (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Double-Acting Actuators

HD-Series

Actuator Model	See Bettis' Definitions	Operating Pressure (Bar)									
		3	4	5	6	7	8	9	10	12	14
		Pressure Torque Output Start/Min./End (Nm)									
HD 521	Start/End	335	447	559	670	782	894	1006	1117	1341	1564
	Minimum	197	262	328	393	459	524	590	656	787	918
HD 721	Start/End	709	946	1182	1419	1655	1891	2128	2364		
	Minimum	400	533	667	800	934	1067	1200	1334		
HD 722	Start/End	1452	1937	2421							
	Minimum	819	1092	1366							
HD 731	Start/End	1005	1340	1675	2010	2345	2680	3015	3350	4020	4690
	Minimum	538	717	896	1075	1254	1433	1613	1792	2150	2508
HD 732	Start/End	2062	2749	3437	4124	4811	5499	6186			
	Minimum	1129	1506	1882	2258	2635	3011	3387			

Spring-Return Actuators

HD-Series

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)										
		3	4	5	6	7	8	9	10	12	14	
		Pressure Torque Output Start/Min./End (Nm)										
HD 521-SR40	Start	176	217	328	440	552	664	775	887	999	1222	1446
	Min.	82	103	169	235	301	367	432	498	563	694	826
	End	108	141	252	364	476	588	699	811	923	1146	1370
HD 521-SR60	Start	264		268	380	492	603	715	827	939	1162	1386
	Min.	123		121	188	254	319	385	451	517	648	779
	End	162		155	266	378	490	602	713	825	1049	1272
HD 521-SR80	Start	342			327	439	550	662	774	886	1109	1333
	Min.	159			144	211	278	344	409	475	607	738
	End	210			180	292	403	515	627	739	962	1186
HD 521-SR100	Start	428				382	494	606	718	829	1053	1276
	Min.	198				164	231	298	364	430	562	693
	End	261				198	309	421	533	645	868	1091
HD 521-SR125	Start	542						530	642	754	977	1201
	Min.	250						235	302	369	501	633
	End	329						295	407	518	742	965
HD 521-SR150	Start	650								680	903	1127
	Min.	301								309	442	575
	End	396								399	623	846
HD 521-SR200	Start	870									753	976
	Min.	403									319	454
	End	532									379	603
HD 721-SR40	Start	331	482	725	967	1210	1452	1695	1937	2180		
	Min.	147	224	361	498	635	771	908	1044	1181		
	End	201	323	566	808	1051	1293	1536	1778	2021		
HD 721-SR60	Start	555		581	829	1078	1326	1575	1823	2072		
	Min.	246		244	386	527	667	807	946	1086		
	End	339		316	564	813	1061	1310	1558	1807		
HD 721-SR80	Start	743			687	935	1184	1432	1681	1930	2427	
	Min.	330			275	419	560	700	840	980	1260	
	End	455			335	583	832	1080	1329	1578	2075	
HD 721-SR100	Start	931				794	1043	1291	1540	1788	2285	
	Min.	413				306	451	593	734	874	1154	
	End	570				354	602	851	1099	1348	1845	
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)										
		3	4	5	6	7	8	9	10	12	14	
		Operating Pressure (Bar)										

Torque Ratings – HD-Series (Pneumatic)

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Spring-Return Actuators HD-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)										
		3	4	5	6	7	8	9	10	12	14	
		Pressure Torque Output Start/Min./End (Nm)										
HD 721-SR125	Start	1070						1043	1273	1504	1964	2425
	Min.	479						431	565	698	961	1223
	End	655						535	765	996	1457	1917
HD 721-SR150	Start	1268							1138	1368	1829	2290
	Min.	564							448	584	850	1113
	End	766							524	754	1215	1675
HD 721-SR200	Start	2149										1806
	Min.	909										599
	End	1161										599
HD 722-SR40	Start	833	1020	1529	2038							
	Min.	337	412	705	993							
	End	416	510	1019	1528							
HD 722-SR60	Start	1288		1249	1758	2267						
	Min.	522		442	744	1036						
	End	644		461	970	1479						
HD 722-SR80	Start	1665			1530	2039						
	Min.	674			510	826						
	End	831			511	1020						
HD 722-SR100	Start	2126				2266						
	Min.	861				855						
	End	1061				964						
HD 732-SR40	Start	1085	1352	2023	2694	3365	4036	4707	5378	6049		
	Min.	439	551	936	1316	1694	2072	2449	2826	3202		
	End	541	686	1357	2028	2699	3370	4041	4712	5383		
HD 732-SR60	Start	1631		1690	2361	3032	3703	4374	5045	5716		
	Min.	660		626	1020	1403	1783	2162	2539	2917		
	End	814		690	1361	2032	2703	3374	4045	4716		
HD 732-SR80	Start	2226			2077	2764	3451	4139	4826	5513		
	Min.	882			699	1102	1489	1871	2251	2630		
	End	1113			716	1403	2090	2778	3465	4152		
HD 732-SR100	Start	2721				2363	3034	3705	4376	5047		
	Min.	1103				700	1176	1568	1954	2336		
	End	1360				701	1372	2043	2714	3385		
HD 732-SR125	Start	3399						3302	3973	4644	5986	
	Min.	1375						1166	1572	1964	2732	
	End	1691						1213	1884	2555	3897	
HD 732-SR150	Start	4090								4218	5560	
	Min.	1656								1557	2349	
	End	2039								1711	3053	
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)										
		3	4	5	6	7	8	9	10	12	14	
		Operating Pressure (Bar)										

Torque Ratings – HD-Series (Hydraulic)

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Double-Acting Actuators

HD-Series

Actuator Model	See Bettis' Definitions	Operating Pressure (Bar)										
		35	50	65	70	80	90	100	120	140	160	175
		Pressure Torque Output Start/Min./End (Nm)										
H251.5	Start/End		554	720	775	886	997	1107	1329	1550	1772	1938
	Minimum		324	421	453	518	582	647	777	906	1035	1132
H352.1	Start/End	1055	1508	1960	2111	2412	2714	3015	3618	4221	4824	5277
	Minimum	617	881	1145	1233	1410	1586	1762	2115	2467	2819	3084

Spring-Return Actuators

HD-Series

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)												
		35	50	65	70	80	90	100	120	140	160	175	200	
		Pressure Torque Output Start/Min./End (Nm)												
H251.5-SR540	Start	178	262	426	590	645	754	863	973	1191	1410	1628	1792	2066
	Min.	83	131	229	327	359	424	488	553	683	812	941	1038	1200
	End	109	185	349	513	568	677	787	896	1114	1333	1552	1715	1989
H251.5-SR560	Start	268	201	365	529	584	693	802	912	1130	1349	1567	1731	2005
	Min.	125	80	180	278	310	375	441	506	635	765	894	991	1153
	End	164	86	250	414	469	578	687	797	1015	1234	1452	1616	1890
H251.5-SR580	Start	347		312	476	530	639	749	858	1077	1295	1514	1678	1951
	Min.	162		135	235	268	333	398	463	593	723	852	949	1111
	End	213		163	327	381	490	600	709	928	1146	1365	1529	1802
H251.5-SR5100	Start	434			418	473	582	692	801	1019	1238	1457	1621	1894
	Min.	202			187	220	286	351	416	546	677	807	904	1066
	End	264			231	286	395	504	614	832	1051	1269	1433	1707
H251.5-SR5125	Start	550					506	615	724	943	1162	1380	1544	1817
	Min.	256					221	288	354	484	614	745	842	1005
	End	333					267	376	486	704	923	1141	1305	1579
H251.5-SR5150	Start	658						540	649	868	1086	1305	1469	1742
	Min.	307						224	292	425	555	685	783	945
	End	401						256	365	584	802	1021	1185	1458
H251.5-SR780	Start	689							578	796	1015	1233	1397	1671
	Min.	322							231	366	498	629	726	889
	End	422							251	470	688	907	1071	1344
H251.5-SR7100	Start	863									884	1102	1266	1540
	Min.	404									390	522	622	785
	End	529									475	694	858	1131
H251.5-SR7125	Start	1070										949	1113	1386
	Min.	500										391	493	659
	End	655										441	605	878
H251.5-SR7150	Start	1268												1250
	Min.	589												537
	End	766												636
H352.1-SR740	Start	1006		875	1322	1470	1768	2066	2363	2958	3554	4149	4595	5339
	Min.	428		259	580	671	851	1030	1208	1562	1917	2271	2537	2979
	End	501		259	705	854	1151	1449	1747	2342	2937	3532	3979	4723
H352.1-SR760	Start	1512					1459	1757	2055	2650	3245	3840	4287	5031
	Min.	643					533	729	915	1275	1632	1987	2253	2696
	End	754					533	831	1128	1723	2319	2914	3360	4104
H352.1-SR780	Start	2014							1745	2341	2936	3531	3977	4721
	Min.	858							514	973	1340	1700	1970	2413
	End	1007							514	1109	1705	2300	2746	3490
H352.1-SR7100	Start	2521									2626	3221	3668	4412
	Min.	1074									1024	1400	1673	2123
	End	1260									1085	1680	2126	2870
H352.1-SR7125	Start	3151										2847	3293	4037
	Min.	1339										911	1282	1752
	End	1567										911	1357	2101
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)												
		35	50	65	70	80	90	100	120	140	160	175	200	
		Operating Pressure (Bar)												

Torque Ratings – T-Series (Pneumatic)

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Double-Acting Actuators

T-Series

Actuator Model	See Bettis' Definitions	Operating Pressure (Bar)									
		3	4	5	6	7	8	9	10	12	14
		Pressure Torque Output Start/Min./End (Nm)									
T310	Start/End	1817	2422	3028	3633	4239	4845	5450	6056		
	Minimum	1020	1361	1701	2041	2381	2721	3061	3402		
T312	Start/End	2614	3485	4356	5228	6099					
	Minimum	1468	1958	2447	2937	3426					
T316	Start/End	4209	5612								
	Minimum	2364	3153								
T320	Start/End	6683									
	Minimum	3754									
T410	Start/End	2552	3403	4254	5105	5955	6806	7657	8508	10209	11911
	Minimum	1436	1914	2393	2871	3350	3828	4307	4786	5743	6700
T412	Start/End	3672	4896	6120	7344	8569	9793	11017	12241		
	Minimum	2066	2754	3443	4131	4820	5508	6197	6885		
T416	Start/End	5914	7885	9856	11827						
	Minimum	3326	4435	5544	6653						
T420	Start/End	9389	12519								
	Minimum	5281	7042								
T424	Start/End	13078									
	Minimum	7356									
T510	Start/End	3540	4720	5900	7080	8260	9440	10620	11800	14160	16520
	Minimum	1986	2648	3310	3972	4634	5296	5958	6620	7944	9267
T512	Start/End	5118	6825	8531	10237	11943	13649	15355	17061	20474	23886
	Minimum	2871	3828	4786	5743	6700	7657	8614	9571	11485	13399
T516	Start/End	8278	11037	13796	16555	19314	22073	24833			
	Minimum	4643	6191	7739	9287	10835	12383	13930			
T520	Start/End	13176	17567	21959							
	Minimum	7391	9855	12319							
T524	Start/End	18374	24499								
	Minimum	10307	13743								
T812	Start/End	7536	10048	12560	15071	17583	20095	22607	25119	30143	35167
	Minimum	4176	5569	6961	8353	9745	11137	12529	13921	16706	19490
T816	Start/End	12187	16249	20311	24374	28436	32498	36561	40623	48747	
	Minimum	6754	9006	11257	13508	15760	18011	20262	22514	27017	
T820	Start/End	19398	25864	32330	38796	45262					
	Minimum	10751	14334	17918	21502	25085					
T824	Start/End	27052	36069	45086							
	Minimum	14993	19990	24988							
T828	Start/End	41579									
	Minimum	23044									
Actuator Model	See Bettis' Definitions	Pressure Torque Output Start/Min./End (Nm)									
		3	4	5	6	7	8	9	10	12	14
		Operating Pressure (Bar)									

Torque Ratings – T-Series (Pneumatic)

All Published Torques are Guaranteed Minimum Values.

Spring-Return Actuators T-Series

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)									
			3	4	5	6	7	8	9	10	12	14
			Pressure Torque Output Start/Min./End (Nm)									
T310-SR5	Start	1520		1614	2208	2802	3395	3989	4583	5177	6364	
	Min.	567		517	902	1247	1587	1925	2262	2599	3271	
	End	623		517	1111	1705	2298	2892	3486	4080	5268	
T312-SR5	Start	1520	1788	2637	3487	4337	5187	6036				
	Min.	567	649	1152	1639	2123	2604	3086				
	End	623	691	1541	2390	3240	4090	4939				
T310-SR4	Start	1975			1652	2245	2839	3433	4027	4621	5808	
	Min.	837			554	924	1268	1608	1947	2284	2957	
	End	1078			555	1149	1742	2336	2930	3524	4711	
T312-SR4	Start	1975		2081	2931	3781	4630	5480	6330			
	Min.	837		827	1321	1806	2289	2771	3252			
	End	1078		984	1834	2684	3533	4383	5233			
T316-SR4	Start	1975	2768	4130	5492							
	Min.	837	1227	2005	2777							
	End	1078	1671	3033	4395							
T310-SR3	Start	2537					2299	2893	3487	4081	5269	6456
	Min.	1121					901	1250	1592	1931	2606	3279
	End	1519					1055	1649	2243	2837	4024	5212
T312-SR3	Start	2537			2391	3241	4091	4940	5790	6640		
	Min.	1121			956	1450	1936	2420	2901	3383		
	End	1519			1147	1997	2847	3696	4546	5396		
T316-SR3	Start	2537	2228	3590	4952	6314						
	Min.	1121	859	1650	2426	3198						
	End	1519	984	2346	3708	5070						
T310-SR2	Start	3394							2585	3179	4366	5554
	Min.	1650							1157	1497	2172	2844
	End	2497							1594	2188	3375	4563
T312-SR2	Start	3394				2339	3189	4038	4888	5738		
	Min.	1650				1015	1502	1985	2467	2948		
	End	2497				1348	2197	3047	3897	4746		
T316-SR2	Start	3394		2688	4050	5412	6773					
	Min.	1650		1216	1992	2764	3534					
	End	2497		1697	3058	4420	5782					
T320-SR2	Start	3394	3708	5864								
	Min.	1650	1798	3020								
	End	2497	2717	4873								
T310-SR1	Start	4770									3135	4322
	Min.	2241									1173	1874
	End	3266									1296	2484
T312-SR1	Start	4770						2806	3656	4506	6205	
	Min.	2241						966	1485	1980	2953	
	End	3266						968	1818	2667	4367	
T316-SR1	Start	4770			2818	4180	5542					
	Min.	2241			973	1791	2574					
	End	3266			980	2341	3703					
T320-SR1	Start	4770		4632	6788							
	Min.	2241		2053	3284							
	End	3266		2794	4950							
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)									
			3	4	5	6	7	8	9	10	12	14
			Operating Pressure (Bar)									

Torque Ratings – T-Series (Pneumatic)

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Spring-Return Actuators T-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)										
		3	4	5	6	7	8	9	10	12	14	
		Pressure Torque Output Start/Min./End (Nm)										
T410-SR5	Start	3581				3210	4055	4900	5744	6589	8278	9968
	Min.	1356				691	1459	1970	2461	2952	3919	4879
	End	1519				692	1536	2381	3226	4071	5760	7449
T412-SR5	Start	3581		2977	4185	5394	6603	7811	9020	10229	12646	
	Min.	1356		457	1540	2260	2960	3652	4341	5028	6398	
	End	1519		458	1667	2876	4084	5293	6502	7710	10128	
T416-SR5	Start	3581	3954	5891	7828	9765	11702					
	Min.	1356	1394	2549	3662	4764	5863					
	End	1519	1435	3372	5309	7247	9184					
T410-SR4	Start	4321						3996	4840	5685	7375	9064
	Min.	1796						1421	1935	2430	3402	4366
	End	2260						1477	2321	3166	4855	6545
T412-SR4	Start	4321			3282	4490	5699	6908	8116	9325	11742	
	Min.	1796			761	1726	2438	3135	3826	4514	5885	
	End	2260			762	1971	3180	4388	5597	6806	9223	
T416-SR4	Start	4321	3050	4987	6924	8861	10798	12735				
	Min.	1796	529	2022	3144	4250	5350	6448				
	End	2260	531	2468	4405	6342	8279	10216				
T420-SR4	Start	4321	6438	9505	12571							
	Min.	1796	2865	4616	6355							
	End	2260	3919	6986	10052							
T410-SR3	Start	5455							3581	4426	6115	7805
	Min.	2532							1377	1875	2847	3809
	End	3638							1574	2419	4108	5797
T412-SR3	Start	5455				3231	4440	5648	6857	8066	10483	12900
	Min.	2532				1162	1883	2580	3270	3957	5327	6694
	End	3638				1224	2432	3641	4850	6058	8476	10893
T416-SR3	Start	5455		3728	5665	7602	9539	11476				
	Min.	2532		1465	2590	3694	4793	5889				
	End	3638		1720	3657	5595	7532	9469				
T420-SR3	Start	5455	5179	8246	11312							
	Min.	2532	2311	4060	5797							
	End	3638	3172	6238	9305							
T410-SR2	Start	7849										5964
	Min.	3500										2133
	End	4795										2233
T412-SR2	Start	7849							5017	6225	8643	11060
	Min.	3500							1283	2296	3728	5117
	End	4795							1285	2494	4911	7328
T416-SR2	Start	7849				5762	7699	9636	11573			
	Min.	3500				2003	3178	4301	5410			
	End	4795				2030	3967	5904	7841			
T420-SR2	Start	7849		6405	9472	12539						
	Min.	3500		2407	4206	5961						
	End	4795		2673	5740	8807						
T424-SR2	Start	7849	6935	11200								
	Min.	3500	2726	5198								
	End	4795	3203	7468								
T412-SR1	Start	9372									6772	9190
	Min.	4375									2632	4047
	End	6326									3050	5467
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)										
		3	4	5	6	7	8	9	10	12	14	
		Operating Pressure (Bar)										

Torque Ratings – T-Series (Pneumatic)

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Spring-Return Actuators T-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)										
		3	4	5	6	7	8	9	10	12	14	
		Pressure Torque Output Start/Min./End (Nm)										
T416-SR1	Start	9372					5828	7765	9703	11640		
	Min.	4375					2050	3220	4342	5451		
	End	6326					2106	4043	5980	7917		
T420-SR1	Start	9372			7601	10668						
	Min.	4375			3124	4896						
	End	6326			3879	6945						
T424-SR1	Start	9372	5064	9330								
	Min.	4375	1339	4127								
	End	6326	1342	5607								
T510-SR4	Start	7094						3736	4936	6137	8539	10940
	Min.	3462						1478	2175	2860	4219	5574
	End	5311						1765	2966	4167	6568	8970
T512-SR4	Start	7094			4452	6173	7893	9614	11334	14775	18216	
	Min.	3462			1896	2880	3855	4826	5796	7732	9667	
	End	5311			2482	4203	5923	7643	9364	12805	16246	
T516-SR4	Start	7094		5172	7933	10693	13454	16215	18975	21736		
	Min.	3462		2310	3877	5435	6989	8542	10094	11646		
	End	5311		3202	5963	8723	11484	14245	17005	19766		
T520-SR4	Start	7094	7250	11623	15997	20370	24744					
	Min.	3462	3491	5958	8419	10878	13336					
	End	5311	5280	9653	14027	18400	22773					
T510-SR3	Start	8169								4949	7351	9752
	Min.	4069								2182	3548	4904
	End	6386								2979	5380	7782
T512-SR3	Start	8169				4985	6705	8426	10146	13587	17028	
	Min.	4069				2202	3182	4156	5126	7064	8999	
	End	6386				3015	4735	6456	8176	11617	15058	
T516-SR3	Start	8169			6745	9506	12266	15027	17787	20548		
	Min.	4069			3205	4765	6320	7873	9426	10978		
	End	6386			4775	7535	10296	13057	15817	18578		
T520-SR3	Start	8169	6062	10435	14809	19182	23556					
	Min.	4069	2817	5289	7751	10210	12669					
	End	6386	4092	8465	12839	17212	21585					
T512-SR2	Start	12888									8549	11990
	Min.	6366									3684	5649
	End	9898									4895	8336
T516-SR2	Start	12888				7228	9989	12750	15510	21032		
	Min.	6366				2917	4510	6080	7641	10755		
	End	9898				3574	6335	9095	11856	17377		
T520-SR2	Start	12888			9771	14144	18518	22891				
	Min.	6366			4386	6869	9338	11801				
	End	9898			6117	10490	14863	19237				
T524-SR2	Start	12888		12244	18329	24415						
	Min.	6366		5793	9232	12659						
	End	9898		8590	14675	20760						
T528-SR2	Start	12888	15906	25240								
	Min.	6366	7865	13124								
	End	9898	12252	21586								
T516-SR1	Start	18189								10236	15757	21279
	Min.	9058								4243	7406	10530
	End	14212								5376	10898	16419
T520-SR1	Start	18189					13244	17617	21990			
	Min.	9058					5975	8460	10932			
	End	14212					8384	12757	17131			
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)										
		3	4	5	6	7	8	9	10	12	14	
		Operating Pressure (Bar)										

Torque Ratings – T-Series (Pneumatic)

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Spring-Return Actuators T-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)		Operating Pressure (Bar)									
			3	4	5	6	7	8	9	10	12	14
			Pressure Torque Output Start/Min./End (Nm)									
T524-SR1	Start	18189			13055	19140	25225					
	Min.	9058			5867	9322	12756					
	End	14212			8196	14281	20366					
T528-SR1	Start	18189	10632	19966								
	Min.	9058	4473	9788								
	End	14212	5772	15106								
T812-SR5	Start	11414					8804	11276	13747	16219	21162	26105
	Min.	5308					3677	5101	6509	7910	10704	13492
	End	7687					4687	7158	9630	12101	17044	21988
T816-SR5	Start	11414		7367	11333	15298	19264	23230	27196	31162	39094	47026
	Min.	5308		2830	5133	7389	9633	11872	14107	16342	20808	25273
	End	7687		3249	7215	11181	15147	19113	23079	27045	34976	42908
T820-SR5	Start	11414	10351	16634	22917	29200	35483	41765	48048			
	Min.	5308	4571	8145	11695	15237	18775	22312	25849			
	End	7687	6234	12517	18800	25082	31365	37648	43931			
T824-SR5	Start	11414	17728	26470	35212	43954						
	Min.	5308	8765	13698	18622	23544						
	End	7687	13611	22353	31094	39836						
T828-SR5	Start	11414	31731	45140								
	Min.	5308	16663	24211								
	End	7687	27613	41022								
T812-SR4	Start	17049								11514	16457	21400
	Min.	7709								3873	6895	9739
	End	10801								3878	8821	13764
T816-SR4	Start	17049			10594	14560	18526	22491	26457	34389	42321	
	Min.	7709			2953	5783	8091	10363	12618	17109	21588	
	End	10801			2957	6923	10889	14855	18821	26753	34685	
T820-SR4	Start	17049		11930	18212	24495	30778	37061	43344	49626		
	Min.	7709		4181	7911	11503	15066	18618	22164	25706		
	End	10801		4293	10576	16859	23142	29424	35707	41990		
T824-SR4	Start	17049	13024	21765	30507	39249	47991					
	Min.	7709	4862	9948	14913	19853	24784					
	End	10801	5387	14129	22871	31613	40354					
T828-SR4	Start	17049	27026	40435								
	Min.	7709	12940	20523								
	End	10801	19390	32799								
T812-SR3	Start	20564										17105
	Min.	9712										7270
	End	14316										9469
T816-SR3	Start	20564							18196	22162	30094	38025
	Min.	9712							7901	10174	14679	19162
	End	14316							10560	14526	22457	30389
T820-SR3	Start	20564				20200	26482	32765	39048	45331		
	Min.	9712				9052	12632	16190	19740	23284		
	End	14316				12563	18846	25129	31412	37695		
T824-SR3	Start	20564		17470	26212	34954	43695					
	Min.	9712		7482	12478	17428	22362					
	End	14316		9834	18575	27317	36059					
T828-SR3	Start	20564	22730	36140	49549							
	Min.	9712	10498	18097	25662							
	End	14316	15094	28503	41912							
T816-SR2	Start	28856									22480	30412
	Min.	13772									9513	14065
	End	20547									12323	20255
Actuator Model	Spring Torque Start/Min./End (Nm)		Pressure Torque Output Start/Min./End (Nm)									
			3	4	5	6	7	8	9	10	12	14
			Operating Pressure (Bar)									

Torque Ratings – T-Series (Pneumatic)

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Spring-Return Actuators T-Series (cont.)

Actuator Model	Spring Torque Start/Min./End (Nm)	Operating Pressure (Bar)										
		3	4	5	6	7	8	9	10	12	14	
		Pressure Torque Output Start/Min./End (Nm)										
T820-SR2	Start	28856					18869	25152	31435	37718	50283	
	Min.	13772					7396	11056	14647	18216	25321	
	End	20547					8712	14995	21278	27560	40126	
T824-SR2	Start	28856		18599	27340	36082	44824					
	Min.	13772		7235	12311	17288	22238					
	End	20547		8441	17183	25925	34667					
T828-SR2	Start	28856	28526	41936								
	Min.	13772	12989	20603								
	End	20547	18369	31778								
T816-SR1	Start	31533								20728	28559	
	Min.	15455								9035	13508	
	End	23756								12133	19964	
T820-SR1	Start	31533					23602	29834	36066	48531		
	Min.	15455					10683	14232	17762	24802		
	End	23756					15006	21239	27471	39936		
T824-SR1	Start	31533		17199	25891	34582	43273					
	Min.	15455		6986	11990	16923	21835					
	End	23756		8604	17296	25987	34678					
T828-SR1	Start	31533	27178	40536								
	Min.	15455	12723	20289								
	End	23756	18583	31941								
T832-SR1	Start	31533	24101	40887								
	Min.	15455	10969	20487								
	End	23756	15506	32292								
T8220-SR1	Start	31139	23307	35615	47924							
	Min.	15283	10564	17565	24527							
	End	23459	14819	27128	39437							
Actuator Model	Spring Torque Start/Min./End (Nm)	Pressure Torque Output Start/Min./End (Nm)										
		3	4	5	6	7	8	9	10	12	14	
		Operating Pressure (Bar)										