



Pneumatic Actuator - Torque Table(Nm)

Unit: N.m

Unit: in.lbs	Spring Set	Spring Torque		Air Supply Pressure									
				3 Bar		4 Bar		5 Bar		6 Bar		7 Bar	
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
HTS-052	5	3.8	6.1	7.8	5.3	11.6	8.9						
	6	4.6	7.4	7.1	4.2	10.9	7.8						
	7	5.2	8.5	6.4	3.2	10.2	6.7						
	8	6.0	9.7			9.5	5.7	13.3	9.3				
	9	6.7	11.0			8.8	4.6	12.6	8.2				
	10	7.5	12.2			8.0	3.5	11.9	7.1	15.7	10.7		
	11	8.3	13.4					11.1	6.0	15.0	9.6	18.8	13.1
12	9.0	14.6					10.4	5.0	14.2	8.6	18.1	12.1	
HTS-063	5	6.2	11.0	14.6	9.3	21.6	15.4	28.7	21.4				
	6	7.6	13.1	13.1	7.5	20.2	13.5	27.3	19.7				
	7	8.8	15.3	11.6	5.7	18.8	11.8	25.9	17.8				
	8	10.1	17.6			17.5	10.0	24.5	16.0	31.6	22.1		
	9	11.3	19.7			16.0	8.2	23.2	14.3	30.3	20.4		
	10	12.5	21.9			14.8	6.4	21.9	12.5	29.0	18.5	36.1	24.6
	11	13.8	24.1			13.4	4.6	20.5	10.7	27.5	16.8	34.6	22.8
12	15.0	26.3					19.1	8.9	26.2	14.9	33.3	21.0	
HTS-075	5	11.3	17.5	22.7	16.0	34.0	26.6						
	6	13.5	21.0	20.5	12.9	31.8	23.4						
	7	15.8	24.5	18.1	9.7	29.5	20.3						
	8	18.1	28.0			27.2	17.1	38.6	27.7				
	9	20.2	31.5			24.9	14.0	36.4	24.6				
	10	22.5	35.0			22.6	10.8	34.0	21.4	45.4	32.0	56.8	42.6
	11	24.8	38.5					31.7	18.3	43.1	28.8	54.5	39.4
12	27.0	42.0					29.5	15.1	40.8	25.7	52.3	36.3	
HTS-083	5	13.8	21.3	28.7	20.9	42.9	34.2						
	6	16.5	25.5	26.1	17.2	40.3	30.4						
	7	19.3	29.8	23.4	13.3	37.5	26.6						
	8	22.0	34.0			34.8	22.8	48.9	36.2				
	9	24.8	38.3			32.1	18.9	46.2	32.3				
	10	27.6	42.5			29.4	15.1	43.5	28.5	57.7	41.9	71.7	55.2
	11	30.3	46.7					40.8	24.7	55.0	38.1	69.0	51.4
12	33.1	51.1					38.1	20.9	52.3	34.1	66.3	47.5	
HTS-092	5	21.9	32.7	43.2	32.5	65.0	54.2						
	6	26.3	39.2	38.9	26.0	60.6	47.7						
	7	30.7	45.8	34.5	19.4	56.2	41.1						
	8	35.1	52.3			51.8	34.6	73.5	56.3				
	9	39.5	58.8			47.4	28.1	69.1	49.8				
	10	43.9	65.4			43.0	21.5	64.8	43.3	86.5	65.0	108.2	86.7
	11	48.2	71.9					60.4	36.7	82.1	58.4	103.8	80.2
12	52.6	78.4					56.0	30.2	77.7	51.9	99.4	73.6	
HTS-105	5	29.9	48.8	64.7	44.2	97.7	74.0						
	6	35.9	58.6	58.4	35.7	91.4	65.5						
	7	41.9	68.3	52.1	27.3	85.2	57.0						
	8	47.8	78.1			78.9	48.5	110.0	76.5				
	9	53.8	87.6			72.6	40.3	103.6	68.3				
	10	59.8	97.6			66.4	31.6	97.4	59.6	129.5	88.4	161.4	117.3
	11	65.7	107.4					91.2	51.1	123.2	79.9	155.0	108.8
12	71.7	117.1					84.9	42.7	116.8	71.5	148.9	100.4	
HTS-125	5	52.3	83.4	110.9	77.4	166.8	128.7						
	6	62.7	100.1	99.5	62.1	155.4	113.4						
	7	73.1	116.7	88.1	47.1	144.1	98.2						
	8	83.6	133.4			132.7	82.9	188.6	134.2				
	9	94.1	150.1			121.2	67.6	177.2	118.9				
	10	104.5	166.8			109.8	52.3	165.8	103.6	221.8	154.9		
	11	114.9	183.5					154.5	88.4	210.4	139.7	218.4	191.0
12	125.4	200.2					143.0	73.0	199.0	124.3	254.9	175.6	
HTS-140	5	79.7	125.4	166.0	118.1	249.4	197.1						
	6	95.6	150.5	149.2	94.3	232.6	173.3						
	7	111.5	175.6	127.2	70.6	215.7	149.6						
	8	127.4	200.6			198.9	125.8	282.2	204.8				
	9	143.4	225.7			182.1	102.1	265.4	181.0				
	10	159.3	250.8			165.3	78.3	248.6	157.2	331.9	236.2	415.9	315.1
	11	175.2	275.9					231.8	133.5	315.1	212.4	398.5	291.4
12	191.2	301.0					215.0	109.7	298.3	188.6	381.7	267.7	

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HTS-160	5	124.2	191.8	254.0	185.3	382.4	311.0						
	6	149.1	230.2	227.8	146.8	356.2	272.5						
	7	173.9	268.6	201.6	108.5	330.0	234.2						
	8	198.7	306.9	175.4	71.8	303.7	195.8	432.1	321.4				
	9	223.6	345.3			277.5	157.5	405.9	283.1				
	10	248.4	383.6			251.3	119.1	379.7	244.8	508.0	370.5		
	11	273.3	422.0					353.5	206.4	481.8	332.1	610.2	457.8
	12	298.1	460.3				327.3	168.1	455.6	293.8	584.0	419.4	
HTS-190	5	195.7	309.7	411.8	288.4	618.7	482.3						
	6	234.8	371.6	370.1	229.7	577.0	423.6						
	7	274.0	433.6	328.3	171.0	535.2	365.0						
	8	313.1	495.5			493.4	306.3	700.3	500.2				
	9	352.2	557.5			451.8	247.6	658.7	441.5				
	10	391.3	619.4			410.0	188.9	616.9	382.9	823.8	576.8	1030.7	770.8
	11	430.5	681.3					575.1	324.2	782.0	518.1	988.9	712.1
	12	469.6	743.3				533.4	265.5	740.3	459.5	947.1	653.4	
HTS-210	5	268.9	420.9	566.0	409.8	850.3	685.1						
	6	322.7	505.1	508.6	326.5	792.9	602.4						
	7	376.5	589.3	451.3	243.2	735.6	518.6						
	8	430.3	673.4			678.1	435.3	962.4	694.0				
	9	484.0	760.5			620.8	349.2	905.1	624.6				
	10	537.8	841.8			563.4	268.8	847.7	544.1	1131.9	819.5	1416.2	1094.9
	11	591.7	926.0					790.3	460.8	1074.5	736.2	1358.8	1011.6
	12	645.3	1010.1				733.0	377.6	1017.2	653.0	1301.5	928.3	
HTS-240	5	431.0	652.9	877.8	656.0	1413.7	1096.9						
	6	517.6	783.4	788.4	522.6	1229.3	963.5						
	7	603.3	914.0	699.9	389.2	1140.8	830.1						
	8	689.5	1044.6			1051.7	696.7	1492.7	1137.7				
	9	775.7	1175.1			962.7	563.4	1403.7	1004.3				
	10	861.9	1305.7			873.7	430.0	1314.7	871.0	1755.7	1312.0	2196.6	1752.8
	11	948.2	1436.3					1225.7	737.6	1666.7	1178.6	2107.6	1619.5
	12	1034.4	1566.9					1136.7	604.2	1577.7	1045.2	2018.6	1486.1
HTS-270	5	612.4	917.9	1234.7	932.4	1854.8	1558.9						
	6	734.9	1101.5	1109.6	742.8	1729.7	1369.4						
	7	857.4	1285.1	984.5	553.3	1604.6	1179.9						
	8	979.8	1468.7			1479.4	990.4	2099.5	1617.0				
	9	1102.3	1652.2			1354.3	800.9	1974.4	1427.5				
	10	1224.8	1835.8			1323.9	611.4	1849.3	1238.0	2469.3	1864.6	3089.4	2491.2
	11	1347.3	2019.4					1724.2	1048.5	2344.3	1675.1	2964.3	2301.7
	12	1469.8	2203.0					1599.0	859.0	2219.1	1485.6	2839.2	2112.2
HTS-300	5	729	1143	1521	1069								
	6	874	1370	1379	885								
	7	1019	1598	1237	701	1983	1366						
	8	1165	1827	1095	515	1840	1181	2585	1846				
	9	1311	2054			1697	997	2442	1662	3187	2326		
	10	1456	2284			1555	811	2300	1476	3045	2141	3790	2805
	11	1602	2511					2158	1291	2903	1956	3647	2621
	12	1748	2740					2015	1107	2760	1771	3506	2436
HTS-350	5	1072	1716	2319	1629								
	6	1286	2059	2078	1308								
	7	1500	2402	1837	986	3013	2066						
	8	1715	2746	1594	664	2770	1744	3946	2824				
	9	1930	3088			2528	1423	3704	2503	4879	3582		
	10	2143	3432			2288	1101	3464	2181	4639	3260	5815	4340
	11	2357	3774					3222	1859	4397	2939	5573	4019
	12	2571	4116					2981	1538	4155	2618	5331	3698
HTS-400	5	1583	2718	3236	2159								
	6	1875	3185	2944	1662								
	7	2167	3651	2653	1252	4260	2740						
	8	2458	4119	2361	840	3969	2328	5575	3815				
	9	2750	4586			3676	1918	5283	3405	6889	4892		
	10	3042	5054			3385	1507	4991	2994	6598	4481	8204	5967
	11	3335	5520					4698	2584	6305	4071	7911	5558
	12	3627	5987					4405	2175	6011	3661	7620	5149