SPA-R: Torques

61 Pneum. Quarter Turn Actuators

PM 61 M.03 e
April 2003

DA: double-acting Torque values in Nm

Type TR	Air Supply in bar 1	2	3	4	5	6	7	8	9	10
050	3.0	6.1	9.2	12.3	15.4	18.5	21.5	24.6	27.7	30.8
063	5.5	11.0	16.5	22.0	27.5	33.0	38.5	44.0	49.5	55.0
075	11.7	23.4	35.1	46.8	58.5	70.2	81.9	93.6	105.3	117.0
085	17.8	35.6	53.4	71.2	89.0	106.9	124.7	142.4	160.3	178.1
100	27.7	55.4	89.2	110.9	138.6	166.4	194.1	221.8	249.5	277.3
115	45.7	91.5	137.2	183.0	228.7	274.5	320.2	366.0	411.7	457.5
125	60.1	120.3	180.5	240.7	300.9	361.1	421.2	481.4	541.6	601.8
160	118.3	236.7	355.0	473.4	591.7	710.1	828.4	946.8	1'065.1	1'183.5
200	221.8	443.7	665.6	887.5	1'109.4	1'333.3	1'553.1	1'775.0	1'996.9	2'218.8
270	539.2	1'078.4	1'617.6	2'156.8	2'696.0	3'235.2	3'774.4	4'313.6	4'852.8	5'392.0

SR: single-acting Torque values in Nm

Type TR	Spring Cartr./ Side	Air Supply in bar 3		4		5		6		7		8		Spring Torque	
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
050	3	5.7	3.5	8.9	6.6	12.0	9.6	15.1	12.7	18.1	15.7	21.2	18.8	5.7	3.5
	4			7.7	4.7	10.8	7.7	13.9	10.8	16.9	13.8	20.0	16.9	7.7	4.7
	5					9.6	5.8	12.7	8.9	15.7	11.9	18.8	15.0	9.6	5.8
	6					8.4	3.9	11.5	7.0	14.5	10.0	17.6	13.1	11.5	7.0
063	3	9.4	6.3	14.9	11.7	20.4	17.2	25.9	22.7	31.4	28.2	36.9	33.7	10.2	7.2
	4			12.3	8.3	17.8	13.8	23.3	19.3	28.8	24.8	34.3	30.3	13.7	9.7
	5					15.4	10.4	20.9	15.9	26.4	21.4	31.9	26.9	17.1	12.1
	6					13.0	7.0	18.5	12.5	24.0	18.0	29.5	23.5	20.5	14.5
075	3	22.5	12.6	34.2	24.4	46.0	36.1	57.7	47.8	69.4	59.5	81.1	71.2	22.5	12.6
	4			30.0	16.9	41.8	28.6	53.5	40.3	65.2	52.0	76.9	63.7	30.0	16.9
	5					37.6	21.1	49.3	32.8	61.0	44.5	72.7	56.2	37.6	21.1
	6					33.4	13.6	45.1	25.3	56.8	37.0	68.5	48.7	45.1	25.3
085	3	34.5	18.9	52.4	36.7	70.2	54.5	88.0	72.3	105.8	90.1	123.6	107.9	34.5	18.9
	4			46.1	25.2	63.9	43.0	81.7	60.8	99.5	78.6	117.3	96.4	46.1	25.2
	5					57.6	31.5	75.4	49.3	93.2	67.1	111.0	84.9	57.6	31.5
	6					51.5	20.0	69.1	37.8	86.9	55.6	104.7	73.4	69.1	37.8
100	3	53.2	30.0	80.9	57.7	108.7	85.4	136.4	113.1	164.1	140.8	191.8	168.5	53.2	30.0
	4			70.9	40.0	98.7	67.7	126.4	95.4	154.1	123.1	181.8	150.8	70.9	40.0
	5					88.7	50.0	116.4	77.7	144.1	105.4	171.8	133.1	88.7	50.0
	6					78.7	32.2	106.4	60.0	134.1	87.7	161.8	115.4	106.4	60.0
115	3	84.3	53.0	130.0	98.8	175.8	144.5	221.6	190.3	267.3	236.0	313.0	281.7	84.3	53.0
	4			112.3	70.7	158.1	116.4	203.9	162.2	249.6	207.9	295.3	253.6	112.3	70.7
	5					140.4	88.3	186.2	134.1	231.9	179.8	277.6	225.5	140.4	88.3
	6					122.7	60.2	168.5	106.0	214.2	151.7	259.9	197.4	168.5	106.0
125	3	116.8	63.7	177.0	123.9	237.3	184.1	297.5	244.2	357.6	304.3	417.7	364.4	116.8	63.7
	4			155.7	85.0	216.0	145.2	276.2	205.3	336.3	265.4	396.4	325.5	155.7	85.0
	5					194.7	106.3	254.9	166.4	315.0	226.5	375.1	286.6	194.7	106.3
	6					173.4	74.1	233.6	127.5	293.7	187.6	353.8	247.7	233.6	127.5
160	3	222.4	132.6	340.7	251.0	459.1	369.3	577.4	487.6	695.7	605.9	814.0	724.2	222.4	132.6
	4			296.5	176.9	414.9	295.2	533.2	413.5	651.5	531.8	769.8	650.1	296.5	176.9
	5					370.7	221.1	489.0	339.4	607.3	457.7	725.6	576.0	370.7	221.1
	6					326.5	147.0	444.8	265.3	563.1	383.6	681.4	501.9	444.8	265.3
200	3	423.6	242.0	644.7	463.8	867.4	685.8	1089.0	907.7	1311.0	1'130.0	1'533.0	1351.0	423.6	242.0
	4			564.8	322.6	786.7	544.6	1008.0	766.5	1'230.0	988.4	1'452.0	1'209.0	564.8	322.6
	5					706.0	403.4	927.9	625.3	1'150.0	847.2	1'372.0	1068.0	706.0	403.4
	6					625.3	262.2	847.2	484.1	1069.0	706.0	1'291.0	927.0	847.2	484.1
270	3	912.5	705.1	1'451.7	1'244.3	1990.9	1'783.5	2530.1	2'322.7	3069.3	2861.9	3608.5	3401.1	912.5	705.1
	4			1'216.7	940.2	1'755.9	1'479.4	2295.1	2018.6	2834.3	2557.8	3373.5	3097.0	1'216.6	940.1
	5					1'520.9	1'175.5	2060.1	1714.4	2599.3	2'144.4	3138.5	2792.8	1'520.8	1'175.1
	6					1'285.8	871.0	1'825.0	1'410.2	2'364.2	1953.6	2903.4	2488.6	1'825.0	1'410.2

Values in column 0° indicate the maximum available starting torque by means of air supply through connection **A**.

Values in column 0° indicate the minimum available end torque if air supply fails.

in-lbs = Nm x 8.86 **psi** = bar x 14.5

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