

RS Series Torque Table

unit : Nm

Model	Spring unit	Supply Air															
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar		SPRING	
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
RS40	WM	3.2	1.5	5.0	3.1	5.0	3.8	6.0	4.6	6.9	5.9	8.8	7.1	10.7	8.2	2.4	1.6
	WS	2.7	0.7	4.6	1.7	5.4	2.3	6.4	2.9	8.2	4.1	10.1	5.2	12.0	6.3	3.0	2.1
	M	2.6	0.8	4.6	2.4	5.4	3.2	6.3	4.1	8.1	5.9	10.0	7.7	11.9	9.3	4.1	2.8
	MS	1.9	-	3.7	1.0	4.6	1.8	5.4	2.5	7.3	4.2	9.1	5.6	11.0	6.7	4.9	3.0
	S	1.0	-	2.9	0.5	3.8	1.2	4.8	2.1	6.7	3.8	8.6	5.1	10.5	6.4	5.9	3.9
RS50	4	7.4	6.1	10.8	9.5	12.4	11.1	14.2	12.8	17.5	16.2	20.9	19.6	24.1	22.9	3.6	2.3
	5	6.7	5.0	10.2	8.5	11.9	10.2	13.4	11.8	16.8	15.3	20.1	18.5	23.6	22.0	4.4	2.8
	6	6.3	4.0	9.6	7.5	11.3	9.0	12.8	10.7	16.3	14.3	19.6	17.6	22.9	20.9	5.2	3.3
	7	5.6	3.2	8.9	6.6	10.6	8.4	12.3	10.0	15.6	13.4	19.0	16.8	22.4	20.2	6.3	3.8
	8	4.1	1.2	7.4	4.4	9.0	6.1	10.7	7.6	14.2	11.1	17.3	14.5	20.8	18.0	8.1	5.2
	9	3.6	-	6.9	3.4	8.6	5.2	10.3	6.9	13.6	10.2	16.9	13.6	20.3	17.0	9.1	6.0
	10	2.9	-	6.1	2.7	7.8	4.3	9.5	5.9	12.8	9.3	16.2	12.6	19.5	16.1	10.1	6.5
	11	2.3	-	5.6	1.5	7.3	3.1	8.9	4.8	12.4	8.2	15.7	11.5	19.0	14.9	11.0	7.0
12	1.8	-	5.2	0.6	6.8	2.2	8.5	3.9	11.9	7.3	15.2	10.5	18.5	11.1	11.8	7.6	
RS65	4	7.4	6.1	13.7	10.5	19.7	16.8	22.8	20.0	26.0	23.1	32.2	29.5	38.4	35.5	6.7	4.0
	5	6.7	5.0	12.4	9.0	18.7	15.3	21.9	18.4	24.8	21.7	31.1	27.8	37.2	34.3	8.5	5.2
	6	6.3	4.0	11.0	6.9	17.1	13.3	20.1	16.4	23.3	19.6	29.5	26.0	35.7	32.0	9.8	6.5
	7	5.6	3.2	10.0	5.2	16.2	11.4	19.3	14.4	22.2	17.4	28.4	23.6	35.0	29.9	11.4	7.1
	8	4.1	1.2	8.7	3.6	14.7	9.5	17.9	12.5	21.1	15.7	27.2	22.0	33.3	28.1	13.7	8.4
	9	3.6	-	7.6	1.3	14.0	7.5	17.1	10.7	20.0	13.8	26.3	20.0	32.4	26.4	15.2	9.7
	10	2.9	-	6.1	-	12.3	5.3	15.4	8.6	18.5	11.8	24.7	18.1	30.4	24.3	17.4	11.0
	11	2.3	-	5.4	-	11.4	3.8	14.4	7.6	17.6	10.4	23.8	16.7	30.0	22.8	18.6	12.2
12	1.8	-	4.8	-	10.8	1.9	13.6	5.0	16.6	8.2	23.1	14.5	29.2	20.8	20.2	12.5	
RS80	4	32.7	25.1	47.9	40.4	55.1	47.2	62.5	55.1	77.8	70.5	92.6	85.3	107.4	100.1	16.3	10.6
	5	29.5	19.9	44.7	35.0	52.3	41.9	59.8	49.6	74.8	64.8	89.3	79.8	104.2	94.7	20.9	13.1
	6	26.6	15.2	41.3	30.1	49.4	37.1	56.6	44.9	71.4	59.9	86.2	74.9	101.5	89.9	25.3	16.2
	7	23.7	10.2	38.4	25.7	45.8	32.1	53.1	39.9	68.2	55.1	83.1	69.8	98.0	84.9	29.5	18.6
	8	21.1	6.1	35.3	21.0	42.9	29.1	50.5	35.7	65.6	51.3	80.8	66.4	95.7	80.5	33.7	21.7
	9	17.6	-	32.4	15.7	39.9	23.8	47.4	30.4	62.4	45.3	77.7	60.1	92.5	75.1	38.3	24.8
	10	14.3	-	29.5	11.0	37.1	19.0	44.3	25.7	59.8	40.4	74.5	55.5	89.2	70.0	43.7	28.2
	11	11.4	-	26.2	5.7	33.4	12.9	40.5	20.4	56.1	35.3	70.8	49.9	85.8	64.4	47.7	30.3
12	9.1	-	23.7	1.0	32.2	8.6	38.5	16.2	53.9	30.7	68.9	44.8	83.6	60.1	51.6	33.5	

RS Series Torque Table

unit : Nm

Model	Spring unit	Supply Air																
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar		SPRING		
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°	
RS90	4	41.8	30.9	61.3	49.9	70.3	59.4	79.8	69.8	98.8	88.8	117.8	107.8	136.8	126.8	22.2	12.8	
	5	38.7	25.0	58.3	44.3	67.5	54.0	77.0	63.7	96.0	82.9	115.0	102.3	134.0	120.9	26.4	16.3	
	6	34.9	19.0	54.7	38.0	64.2	47.5	73.7	57.0	92.7	77.0	111.7	96.0	130.7	115.0	33.9	20.2	
	7	31.2	12.7	50.5	32.3	60.0	41.8	69.8	51.3	88.8	70.8	107.8	89.8	126.8	108.8	38.4	23.4	
	8	27.7	6.7	47.3	25.7	56.6	35.2	65.8	44.7	85.1	63.7	104.1	82.7	123.1	101.7	43.9	27.2	
	9	23.1	-	42.5	18.8	51.6	28.9	61.4	38.0	80.8	57.4	100.0	77.0	119.0	96.0	49.8	30.7	
	10	19.2	-	38.0	12.7	47.5	21.9	57.0	31.4	76.0	50.8	95.0	69.8	114.0	89.0	56.5	34.5	
	11	16.9	-	35.0	6.5	44.4	16.2	54.0	25.7	73.2	44.7	92.2	63.7	111.2	82.7	61.8	37.8	
	12	12.8	-	31.5	-	41.5	9.5	50.0	19.2	69.4	38.0	88.6	57.0	107.4	76.5	67.5	40.7	
	RS100	4	57.7	41.1	84.3	67.8	97.7	81.3	106.4	95.3	133.0	121.6	159.6	148.2	186.2	174.8	33.1	20.7
		5	51.5	31.2	78.9	58.3	93.6	71.7	104.8	85.2	131.1	112.1	157.7	138.7	184.3	165.3	41.8	25.5
		6	45.8	22.1	72.7	48.5	85.5	62.2	98.6	75.5	125.4	101.7	152.0	128.3	178.6	154.9	50.8	31.2
7		40.6	12.4	67.0	38.6	80.2	53.6	93.5	66.0	119.7	92.2	146.3	118.8	172.9	145.4	59.3	36.2	
8		34.9	4.8	60.8	29.6	74.1	43.7	86.7	56.1	113.1	81.9	139.7	108.3	166.3	135.9	67.6	40.9	
9		30.6	-	57.0	20.9	70.3	33.7	83.1	46.6	109.3	74.1	135.9	100.2	162.5	126.4	76.4	45.6	
10		25.2	-	52.7	11.8	66.9	24.1	79.3	36.9	105.5	64.1	132.1	90.0	158.7	116.9	87.2	50.4	
11		20.5	-	46.4	1.9	59.5	14.3	72.4	28.0	98.6	53.8	125.4	79.3	152.0	105.5	93.8	55.7	
12		13.8	-	40.3	-	52.9	4.8	65.6	19.0	92.6	45.8	119.2	71.2	145.8	97.9	102.0	60.6	
RS115		4	95.0	71.3	137.8	114.0	161.5	137.8	180.5	161.5	223.3	204.3	266.0	247.0	308.8	289.8	42.8	23.8
		5	85.5	61.8	128.3	104.5	147.3	123.5	171.0	147.3	213.8	190.0	256.5	232.8	299.3	275.5	52.3	33.3
		6	76.0	52.3	118.8	90.3	142.5	114.0	161.5	133.0	204.3	175.8	247.0	218.5	289.8	261.3	61.8	38.0
	7	66.5	33.3	114.0	76.0	133.0	99.8	156.8	118.8	194.8	161.5	237.5	204.3	285.0	247.0	76.0	47.5	
	8	61.8	23.8	104.5	66.5	128.3	85.5	147.3	109.3	190.0	152.0	232.8	190.0	275.5	237.5	85.5	52.3	
	9	52.3	9.5	95.0	52.3	118.8	71.3	137.8	95.0	185.3	142.5	228.0	180.5	270.8	223.3	99.8	61.8	
	10	42.8	-	85.5	42.8	109.3	61.8	128.3	80.8	175.8	123.5	218.5	166.3	256.5	209.0	114.0	66.5	
	11	38.0	-	80.8	28.5	104.5	47.5	123.5	71.3	166.3	114.0	209.0	156.8	251.8	199.5	123.5	76.0	
	12	33.3	-	71.3	14.3	95.0	38.0	114.0	57.0	156.8	99.8	199.5	142.5	242.3	185.3	133.0	80.8	
	RS125	4	114.0	95.0	171.0	152.0	194.8	180.5	223.3	209.0	275.5	261.3	327.8	318.3	384.8	375.3	57.0	33.3
		5	104.5	80.8	161.5	133.0	190.0	161.5	213.8	190.0	270.8	247.0	327.8	304.0	380.0	356.3	71.3	42.8
		6	95.0	61.8	152.0	118.8	175.8	147.3	204.3	171.0	256.5	228.0	313.5	285.0	370.5	337.3	85.5	52.3
7		85.5	47.5	142.5	99.8	166.3	128.3	194.8	156.8	247.0	213.8	304.0	266.0	356.3	323.0	99.8	61.8	
8		76.0	28.5	128.3	80.8	156.8	109.3	180.5	137.8	237.5	194.8	289.8	247.0	346.8	304.0	114.0	71.3	
9		66.5	9.5	118.8	66.5	147.3	95.0	175.8	123.5	228.0	175.8	280.3	232.8	332.5	285.0	133.0	85.5	
10		52.3	-	109.3	47.5	137.8	76.0	161.5	104.5	218.5	161.5	270.8	213.8	323.0	270.8	147.3	95.0	
11		42.8	-	99.8	33.3	128.3	61.8	152.0	85.5	209.0	142.5	261.3	199.5	313.5	251.8	161.5	104.5	
12		33.3	-	90.3	19.0	114.0	42.8	142.5	71.3	194.8	123.5	251.8	180.5	304.0	232.8	175.8	114.0	

RS Series Torque Table

unit : Nm

Model	Spring unit	Supply Air																
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar		SPRING		
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°	
RS140	4	166.3	137.8	247.0	218.5	285.0	261.3	327.8	299.3	408.5	384.8	489.3	465.5	570.0	546.3	760.0	52.3	
	5	156.8	109.3	237.5	194.8	280.3	232.8	318.3	275.5	399.0	361.0	479.8	441.8	560.5	522.5	104.5	61.8	
	6	142.5	90.3	223.3	175.8	261.3	213.8	304.0	256.5	384.8	337.3	465.5	418.0	546.3	498.8	123.5	71.3	
	7	128.3	66.5	209.0	147.3	247.0	190.0	289.8	228.0	370.5	313.5	451.3	394.3	532.0	470.3	147.3	90.3	
	8	114.0	42.8	194.8	123.5	237.5	166.3	275.5	204.3	356.3	289.8	437.0	370.5	517.8	451.3	175.8	104.5	
	9	95.0	14.3	175.8	99.8	218.5	142.5	256.5	180.5	337.3	266.0	418.0	346.8	498.8	427.5	194.8	118.8	
	10	85.5	-	166.3	76.0	204.3	118.8	242.3	156.8	323.0	242.3	408.5	323.0	484.5	403.8	218.5	137.8	
	11	66.5	-	147.3	47.5	190.0	90.3	228.0	133.0	308.8	213.8	389.5	299.3	470.3	380.0	242.3	152.0	
	12	52.3	-	133.0	28.5	175.8	66.5	213.8	109.3	294.5	194.8	375.3	275.5	456.0	356.3	266.0	166.3	
	RS160	4	223.3	180.5	337.3	289.8	394.3	346.8	451.3	403.8	565.3	513.0	679.3	622.3	793.3	731.5	114.0	80.8
		5	213.8	152.0	327.8	261.3	384.8	318.3	441.8	375.3	555.8	484.5	669.8	593.8	783.8	703.0	142.5	95.0
		6	190.0	118.8	304.0	237.5	361.0	294.5	418.0	346.8	532.0	465.5	646.0	579.5	760.0	693.5	175.8	118.8
7		166.3	85.5	285.0	194.8	337.3	251.8	394.3	334.4	513.0	422.8	622.3	541.5	736.3	660.3	204.3	137.8	
8		147.3	52.3	261.3	166.3	318.3	218.5	375.3	280.3	489.3	394.3	603.3	508.3	712.5	622.3	242.3	161.5	
9		123.5	14.3	242.3	128.3	299.3	185.3	356.3	242.3	470.3	356.3	584.3	470.3	698.3	584.3	275.5	185.3	
10		104.5	-	218.5	99.8	270.8	152.0	327.8	209.0	446.5	323.0	560.5	437.0	669.8	551.0	313.5	204.3	
11		80.8	-	194.8	61.8	251.8	114.0	308.8	175.8	422.8	289.8	532.0	403.8	650.8	517.8	337.3	228.0	
12		66.5	-	175.8	28.5	232.8	85.5	289.8	142.5	403.8	256.5	513.0	365.8	627.0	479.8	365.8	247.0	
RS185		4	342.0	270.8	503.5	432.3	584.3	513.0	665.0	593.8	826.5	755.3	988.0	912.0	1,144.8	1,073.5	180.5	118.8
		5	308.8	218.5	470.3	384.8	551.0	460.8	627.0	546.3	788.5	707.8	950.0	869.3	1,111.5	1,026.0	228.0	152.0
		6	270.8	166.3	437.0	332.5	517.8	408.5	598.5	489.3	760.0	650.8	916.8	812.3	1,078.3	969.0	280.3	190.0
	7	242.3	114.0	403.8	285.0	484.5	361.0	565.3	441.8	726.8	598.5	883.5	760.0	1,045.0	921.5	318.3	218.5	
	8	204.3	66.5	365.8	228.0	446.5	304.0	532.0	384.8	693.5	546.3	850.3	703.0	1,011.8	864.5	370.5	251.8	
	9	171.0	9.5	337.3	171.0	418.0	251.8	494.0	332.5	660.3	494.0	821.8	660.3	978.5	817.0	422.8	285.0	
	10	137.8	-	304.0	118.8	384.8	199.5	460.8	280.3	627.0	446.5	788.5	608.0	945.3	769.5	465.5	318.3	
	11	104.5	-	266.0	61.8	346.8	152.0	427.5	232.8	593.8	394.3	750.5	555.8	912.0	712.5	508.3	346.8	
	12	71.3	-	232.8	23.8	313.5	99.8	394.3	180.5	555.8	342.0	717.3	498.8	874.0	655.5	560.5	380.0	
	RS210	4	503.5	408.5	736.3	646.0	850.3	760.0	959.5	878.8	1,201.8	1,111.5	1,434.5	1,339.5	1,667.3	1,572.3	232.8	156.8
		5	465.5	346.8	698.3	589.0	812.3	698.3	931.0	817.0	1,163.8	1,054.5	1,396.5	1,282.5	1,629.3	1,857.3	299.3	199.5
		6	422.8	280.3	660.3	517.8	774.3	631.8	888.3	750.5	1,125.8	988.0	1,358.5	1,235.0	1,586.5	1,458.3	361.0	242.3
7		375.3	213.8	612.8	446.5	726.8	565.3	845.5	684.0	1,078.3	916.8	1,311.0	1,149.5	1,539.0	1,391.8	422.8	285.0	
8		332.5	152.0	570.0	380.0	684.0	498.8	802.8	617.5	1,035.5	850.3	1,263.5	1,078.3	1,496.3	1,311.0	489.3	327.8	
9		285.0	76.0	517.8	313.5	636.5	432.3	750.5	546.3	988.0	779.0	1,216.0	1,016.5	1,448.8	1,244.5	555.8	375.3	
10		232.8	9.5	465.5	242.3	584.3	356.3	703.0	475.0	935.8	712.5	1,168.5	945.3	1,401.3	1,173.3	622.3	427.5	
11		185.3	-	422.8	175.8	532.0	294.5	655.5	408.5	888.3	646.0	1,121.0	878.8	1,353.8	1,111.5	684.0	465.5	
12		147.3	-	384.8	114.0	498.8	237.5	612.8	342.0	850.3	574.8	1,083.0	812.3	1,315.8	1,040.3	745.8	503.5	

▷ You may select the number of springs (unit); if unspecified in P/O, the standard type (as shown in the yellow box) is provided.

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