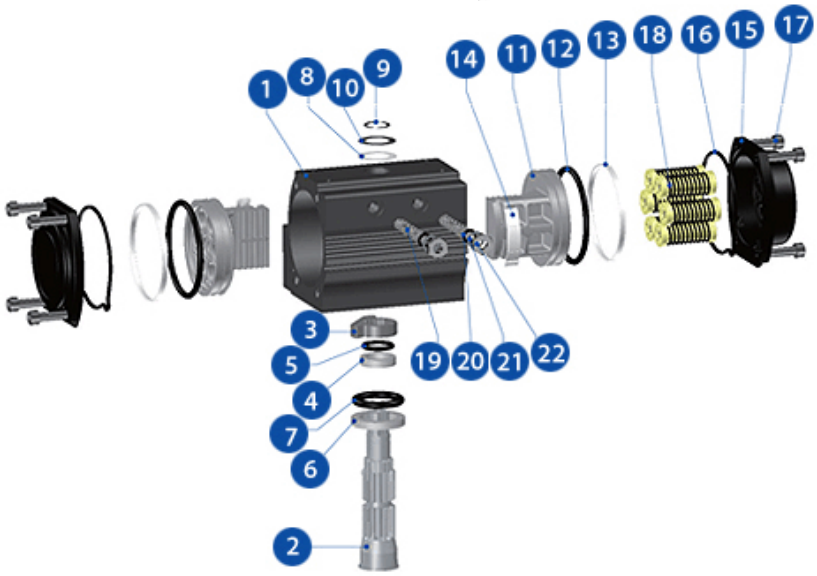
Pneumatic actuator RD/RS (rack pinion)



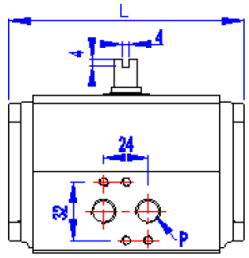


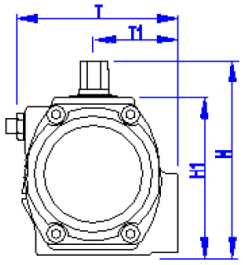


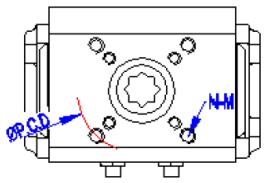
NO	Part Name	Material	NO	Part Name	Material
1	Body	Aluminum Alloy	12	Piston O-ring	NBR
2	Shaft	Steel Alloy (Nickel Plated)	13	Piston Guide-ring	Engineering Plastic
3	Stopper	Steel Alloy	14	Piston Pad	Engineering Plastic
4	Bushing (Top)	Engineering Plastic	15	Cover	Aluminum Alloy
5	Body O-ring (Top)	NBR	16	Cover O-ring	NBR
6	Bushing (Bottom)	Engineering Plastic	17	Cover Bolt	Steel Alloy
7	Bushing (Bottom)	NBR	18	Spring Unit	Steel Alloy
8	Body Washer (Bottom)	Engineering Plastic	19	Adjust Bolt	Steel Alloy
9	Shaft Roller (Bottom)	Stainless Steel	20	Adjust O-ring	NBR
10	Body Snap-ring	Stainless Steel	21	Adjust Washer	Steel Alloy
11	Piston	Aluminum Alloy	22	Adjust Nut	Steel Alloy

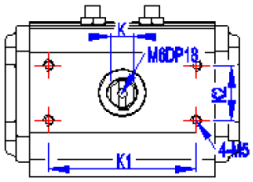
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RD SERIES DIMENSION TABLE

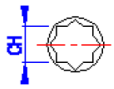








MOUNT IMAGE



P	
R32, R40	PT1/8
R50~	PT1/4

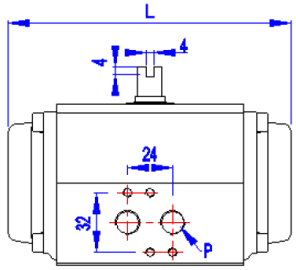
UNIT : mm

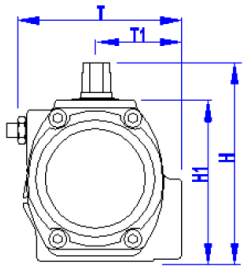
MODEL	K1	K2	ISO	P.C.D(ø)	N-G	K	L	T	T1	H	H1	CH	DTH	WG(K)
@RD32	25.5	25.5	F03	36	4-M5	7	66	45	25	55	45	9*9	9	0.3
@RD40	50	25	F03/F05	36/50	4-M5/M6	9	97	63	32	75	55	9*9	9	0.5
			#F04	#42	#4-M5									
RD50	80	30	F03/F05/F07	36/50/70	4-M5/M6/M8	9	119	75	40	90	70	11*11	13	1.0
			#F04	#42	#4-M5									
RD65	80	30	F05/F07	50/70	4-M6/M8	13	131	89	46	106.5	86.5	14*14	16	1.4
			#F04/F07	#42	#4-M5									
RD80	80	30	F05/F07	50/70	4-M6/M8	19	189	101	49.5	126	106	17*17	19	2.9
RD90	80	30	F07	70	4-M8	19	188	104	54.5	136	116	17*17	19	3.4
RD100	80	30	F07/F10	70/102	4-M8/M10	19	229	132	61.5	148	128	22*22	26	4.7
												#17*17	19	
RD115	80	30	F07/F10	70/102	4-M8/M10	19	265	142	67.5	163	143	22*22	26	6.7
RD125	80	30	F07/F10	70/102	4-M8/M10	19	299	151	71.5	174	154	22*22	26	8.6
RD140	80	30	F10/F12	102/125	4-M10/M12	24	332	164	77	192	172	27*27	30	12.4
												#22*22	26	
RD160	80	30	F10/F12	102/125	4-M10/M12	24	364	188	89	216	196	27*27	30	16.9
RD185	80	30	F10/F12	102/125	4-M10/M12	24	434	217	103	244	224	36*36	30	24.2
RD210	130	30	F14	140	4-M16	36	444	231	115	284	254	36*36	30	32.3

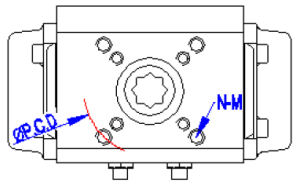
-Model with '@' is compact type. They don't have angle stopper. -Model with '#' is optinal.

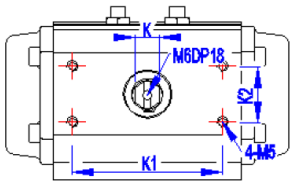
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RS SERIES DIMENSION TABLE

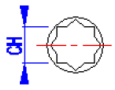








MOUNT IMAGE



P	
R32, R40	PT1/8
R50~	PT1/4

UNIT : mm

MODEL	K1	K2	ISO	P.C.D(⌀)	N-G	K	L	T	T1	H	H1	CH	DTH	WG(K)
@RS40	50	25	F03/F05	36/50	4-M5/M6	9	97	60	33	74	54	9*9	9	0.6
			#F04	#42	#4-M5									
RS50	80	30	F03/F05/F07	36/50/70	4-M5/M6/M8	9	133	75	40	90	70	11*11	13	1.1
			#F04	#42	#4-M5									
RS65	80	30	F05/F07	50/70	4-M6/M8	13	154	89	46	106.5	86.5	14*14	16	1.5
			#F04	#42	#4-M5									
RS80	80	30	F05/F07	50/70	4-M6/M8	19	220	101	49.5	125	106	17*17	19	3.3
RS90	80	30	F07	70	4-M8	19	223	104	54.5	136	116	17*17	19	3.8
RS100	80	30	F07/F10	70/102	4-M8/M10	19	256	132	61.5	148	128	22*22	26	5.4
												17*17	19	
RS115	80	30	F07/F10	70/102	4-M8/M10	19	302	142	67.5	163	143	22*22	26	7.5
RS125	80	30	F07/F10	70/102	4-M8/M10	19	330	151	71.5	174	154	22*22	26	9.9
RS140	80	30	F10/F12	102/125	4-M10/M12	24	389	164	77	192	172	27*27	30	14.5
												22*22	26	
RS160	80	30	F10/F12	102/125	4-M10/M12	24	416	188	89	216	196	27*27	30	19.5
RS185	80	30	F10/F12	102/125	4-M10/M12	30	465	217	103	244	224	36*36	30	29.0
RS210	130	30	F14	140	4-M16	36	527	231	115	284	254	36*36	30	37.9

-Model with '@' is compact type. They don't have angle stopper. -Model with '#' is optional.

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RD Series Torque Table							unit : Nm
MODEL	SUPPLY AIR						
	3Bar	4Bar	4.5Bar	5Bar	6Bar	7Bar	8Bar
RD32	2.4	3.1	3.5	3.9	4.8	5.7	6.6
RD40	5.5	7.4	8.4	9.2	11.1	13.0	14.8
RD50	9.4	12.5	14.3	15.9	19.1	22.5	25.8
RD65	18.3	24.7	27.8	30.8	36.8	42.9	49.2
RD80	44.5	58.9	66.5	74.4	89.3	104.3	117.8
RD90	57.2	76.2	85.7	95.2	114.2	133.2	152.2
RD100	79.5	105.5	118.8	132.1	158.7	185.3	211.9
RD115	123.5	166.3	187.2	209.0	251.8	294.5	337.3
RD125	161.5	218.5	247.0	270.8	327.8	384.8	437.0
RD140	237.5	318.3	361.0	399.0	479.8	560.5	641.3
RD160	327.8	441.8	494.0	551.0	669.8	779.0	893.0
RD185	475.0	641.3	722.0	802.8	964.3	1,125.8	1,287.3
RD210	679.3	912.0	1,030.8	1,144.8	1,382.3	1,615.0	1,847.8

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

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RS Series Torque Table

unit : Nm

Model	Spring unit	Supply Air																SPRING	
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		8Bar					
		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. 2016.03.29 Norah

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