

ANTI-VIBRATION & SPRINGS

R

Die Springs - Medium Duty

ISO 10243 Colour Coded Blue : 1.6 - 921N, 5 - 10mm Rod Dia.



Discounts: 6+ -10% 10+ -15% 20+ -24%

Part Number	Hole Ø ØA	Rod Ø ØB	Free Length L	Load at 1mm Def. N	Load Deflection								Weight per 1000 (kg)	Price Each 1 - 5
					For Optimum Life (25% of free length)		For Optimum Life (30% of free length)		For Optimum Life (35% of free length)		Max. Deflection			
					Load N	Deflection mm	Load N	Deflection mm	Load N	Deflection mm	Load N	Deflection mm		
R204104	10.0	5.0	25	16.0	80.0	5.0	100.0	6.3	120.0	7.5	152.0	9.5	4.742	£1.35
R204105	10.0	5.0	32	13.0	83.2	6.4	104.0	8.0	124.8	9.6	158.6	12.2	5.121	£1.50
R204106	10.0	5.0	38	11.9	90.4	7.6	113.1	9.5	135.7	11.4	171.4	14.4	5.643	£1.66
R204107	10.0	5.0	44	10.3	90.6	8.8	113.3	11.0	136.0	13.2	172.0	16.7	7.113	£1.92
R204108	10.0	5.0	51	8.9	90.8	10.2	113.5	12.8	136.2	15.3	172.7	19.4	7.018	£2.06
R204110	10.0	5.0	64	7.5	96.0	12.8	120.0	16.0	144.0	19.2	182.3	24.3	8.204	£2.31
R204112	10.0	5.0	76	5.3	80.6	15.2	100.7	19.0	120.8	22.8	153.2	28.9	11.239	£2.63
R204148	10.0	5.0	305	1.6	97.6	61.0	122.0	76.3	146.4	91.5	185.6	116.0	39.549	£10.98
R204204	12.5	6.3	25	30.0	150.0	5.0	187.5	6.3	225.0	7.5	285.0	9.5	7.398	£1.56
R204205	12.5	6.3	32	24.8	158.7	6.4	198.4	8.0	238.1	9.6	302.6	12.2	8.536	£1.79
R204206	12.5	6.3	38	21.4	162.6	7.6	203.3	9.5	244.0	11.4	308.2	14.4	9.864	£1.84
R204207	12.5	6.3	44	18.5	162.8	8.8	203.5	11.0	244.2	13.2	309.0	16.7	11.239	£2.21
R204208	12.5	6.3	51	15.5	158.1	10.2	197.6	12.8	237.2	15.3	300.7	19.4	12.804	£2.35
R204210	12.5	6.3	64	12.1	154.9	12.8	193.6	16.0	232.3	19.2	294.0	24.3	15.696	£2.56
R204212	12.5	6.3	76	10.2	155.0	15.2	193.8	19.0	232.6	22.8	294.8	28.9	18.494	£2.80
R204214	12.5	6.3	89	8.4	149.5	17.8	186.9	22.3	224.3	26.7	283.9	33.8	21.577	£3.39
R204248	12.5	6.3	305	2.1	128.1	61.0	160.1	76.3	192.2	91.5	243.6	116.0	83.935	£11.67
R204304	16.0	8.0	25	49.4	247.0	5.0	308.8	6.3	370.5	7.5	469.3	9.5	16.597	£1.92
R204305	16.0	8.0	32	37.1	237.4	6.4	296.8	8.0	356.2	9.6	452.6	12.2	17.356	£2.02
R204306	16.0	8.0	38	33.9	257.6	7.6	322.1	9.5	386.5	11.4	488.2	14.4	22.430	£2.28
R204307	16.0	8.0	44	30.0	264.0	8.8	330.0	11.0	396.0	13.2	501.0	16.7	23.711	£2.49
R204308	16.0	8.0	51	26.4	269.3	10.2	336.6	12.8	403.9	15.3	512.2	19.4	25.228	£2.60
R204310	16.0	8.0	64	20.5	262.4	12.8	328.0	16.0	393.6	19.2	498.2	24.3	31.535	£2.85
R204312	16.0	8.0	76	17.8	270.6	15.2	338.2	19.0	405.8	22.8	514.4	28.9	33.290	£3.21
R204314	16.0	8.0	89	15.2	270.6	17.8	338.2	22.3	405.8	26.7	513.8	33.8	38.553	£3.48
R204316	16.0	8.0	102	13.5	275.4	20.4	344.3	25.5	413.1	30.6	523.8	38.8	45.714	£3.87
R204348	16.0	8.0	305	4.8	292.8	61.0	366.0	76.3	439.2	91.5	556.8	116.0	119.596	£13.33
R204404	20.0	10.0	25	98.0	490.0	5.0	612.5	6.3	735.0	7.5	921.2	9.4	19.111	£2.74
R204405	20.0	10.0	32	72.6	464.6	6.4	580.8	8.0	697.0	9.6	871.2	12.0	23.236	£2.91
R204406	20.0	10.0	38	56.0	425.6	7.6	532.0	9.5	638.4	11.4	784.0	14.0	26.651	£2.91
R204407	20.0	10.0	44	47.5	418.0	8.8	522.5	11.0	627.0	13.2	783.8	16.5	30.349	£3.33
R204408	20.0	10.0	51	41.7	425.3	10.2	531.7	12.8	638.0	15.3	792.3	19.0	34.143	£3.33
R204410	20.0	10.0	64	32.3	413.4	12.8	516.8	16.0	620.2	19.2	775.2	24.0	41.446	£3.62
R204412	20.0	10.0	76	25.1	381.5	15.2	476.9	19.0	572.3	22.8	702.8	28.0	48.938	£3.91
R204414	20.0	10.0	89	22.0	391.6	17.8	489.5	22.3	587.4	26.7	726.0	33.0	56.241	£4.40
R204416	20.0	10.0	102	19.8	403.9	20.4	504.9	25.5	605.9	30.6	752.4	38.0	68.476	£5.24
R204418	20.0	10.0	115	18.1	416.3	23.0	520.4	28.8	624.5	34.5	778.3	43.0	71.226	£5.83
R204420	20.0	10.0	127	16.6	421.6	25.4	527.1	31.8	632.5	38.1	796.8	48.0	78.719	£6.44

Material

High tensile strength chromium alloy steels.

Performance

Heat Resistance: Up to +230°C (Loss of load occurs above +120°C).

Other Info.

Spring Ends: Squared and ground. For compressed length, minus Deflection from Free Length.

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Product information updated 1st April 2010 and subject to change. Please contact Sales for the latest prices and availability.

ANTI-VIBRATION & SPRINGS

R

Die Springs - Medium Duty

ISO 10243 Colour Coded Blue : 6.1 - 3450N, 10 - 20mm Rod Dia.



Discounts: 6+ -10% | 10+ -15% | 20+ -24%

Part Number	Hole Ø ØA	Rod Ø ØB	Free Length L	Load at 1mm Def. N	Load Deflection								Weight per 1000 (kg)	Price Each 1 - 5
					For Optimum Life (25% of free length)		For Optimum Life (30% of free length)		For Optimum Life (35% of free length)		Max. Deflection			
					Load N	Deflection mm	Load N	Deflection mm	Load N	Deflection mm	Load N	Deflection mm		
R204422	20	10.0	139	15.1	419.8	27.8	524.7	34.8	629.7	41.7	785.2	52.0	86.306	£7.03
R204424	20	10.0	152	13.2	401.3	30.4	501.6	38.0	601.9	45.6	752.4	57.0	93.562	£7.50
R204448	20	10.0	305	6.1	372.1	61.0	465.1	76.3	558.2	91.5	695.4	114.0	222.879	£14.51
R204504	25	12.5	25	147.0	735.0	5.0	918.8	6.3	1102.5	7.5	1381.8	9.4	39.028	£3.48
R204505	25	12.5	32	118.0	755.2	6.4	944.0	8.0	1132.8	9.6	1416.0	12.0	45.145	£3.65
R204506	25	12.5	38	93.0	706.8	7.6	883.5	9.5	1060.2	11.4	1302.0	14.0	52.353	£3.73
R204507	25	12.5	44	80.8	711.0	8.8	888.8	11.0	1066.6	13.2	1333.2	16.5	60.225	£4.19
R204508	25	12.5	51	68.6	699.7	10.2	874.7	12.8	1049.6	15.3	1303.4	19.0	62.122	£4.15
R204510	25	12.5	64	53.0	678.4	12.8	848.0	16.0	1017.6	19.2	1272.0	24.0	79.667	£4.55
R204512	25	12.5	76	43.2	656.6	15.2	820.8	19.0	985.0	22.8	1209.6	28.0	93.182	£4.83
R204514	25	12.5	89	38.2	680.0	17.8	850.0	22.3	1019.9	26.7	1260.6	33.0	106.697	£5.44
R204516	25	12.5	102	33.0	673.2	20.4	841.5	25.5	1009.8	30.6	1254.0	38.0	126.614	£5.94
R204518	25	12.5	115	28.0	644.0	23.0	805.0	28.8	966.0	34.5	1204.0	43.0	133.964	£6.64
R204520	25	12.5	127	25.9	657.9	25.4	822.3	31.8	986.8	38.1	1243.2	48.0	147.479	£7.86
R204522	25	12.5	139	23.2	645.0	27.8	806.2	34.8	967.4	41.7	1206.4	52.0	168.961	£8.56
R204524	25	12.5	152	20.8	632.3	30.4	790.4	38.0	948.5	45.6	1185.6	57.0	182.571	£8.77
R204528	25	12.5	178	17.8	633.7	35.6	792.1	44.5	950.5	53.4	1192.6	67.0	209.459	£10.71
R204532	25	12.5	203	15.8	641.5	40.6	801.9	50.8	962.2	60.9	1200.8	76.0	237.105	£12.77
R204548	25	12.5	305	10.2	622.2	61.0	777.8	76.3	933.3	91.5	1162.8	114.0	412.563	£17.46
R204606	32	16.0	38	185.0	1406.0	7.6	1757.5	9.5	2109.0	11.4	2590.0	14.0	100.533	£5.36
R204607	32	16.0	44	158.0	1390.4	8.8	1738.0	11.0	2085.6	13.2	2607.0	16.5	107.456	£5.83
R204608	32	16.0	51	134.0	1366.8	10.2	1708.5	12.8	2050.2	15.3	2546.0	19.0	113.810	£5.73
R204610	32	16.0	64	99.0	1267.2	12.8	1584.0	16.0	1900.8	19.2	2376.0	24.0	144.634	£6.07
R204612	32	16.0	76	80.5	1223.6	15.2	1529.5	19.0	1835.4	22.8	2254.0	28.0	164.314	£6.75
R204614	32	16.0	89	69.1	1230.0	17.8	1537.5	22.3	1845.0	26.7	2280.3	33.0	198.220	£7.39
R204616	32	16.0	102	58.8	1199.5	20.4	1499.4	25.5	1799.3	30.6	2234.4	38.0	215.102	£8.54
R204618	32	16.0	115	51.5	1184.5	23.0	1480.6	28.8	1776.8	34.5	2214.5	43.0	250.857	£9.52
R204620	32	16.0	127	44.8	1137.9	25.4	1422.4	31.8	1706.9	38.1	2150.4	48.0	277.508	£10.08
R204622	32	16.0	139	42.3	1175.9	27.8	1469.9	34.8	1763.9	41.7	2199.6	52.0	308.948	£11.67
R204624	32	16.0	152	37.8	1149.1	30.4	1436.4	38.0	1723.7	45.6	2154.6	57.0	330.525	£12.47
R204628	32	16.0	178	32.5	1157.0	35.6	1446.3	44.5	1735.5	53.4	2177.5	67.0	382.688	£15.46
R204632	32	16.0	203	28.9	1173.3	40.6	1466.7	50.8	1760.0	60.9	2196.4	76.0	435.799	£17.85
R204640	32	16.0	254	21.4	1087.1	50.8	1358.9	63.5	1630.7	76.2	2033.0	95.0	541.548	£23.56
R204648	32	16.0	305	18.3	1116.3	61.0	1395.4	76.3	1674.5	91.5	2086.2	114.0	647.771	£27.96
R204708	40	20.0	51	181.6	1852.3	10.2	2315.4	12.8	2778.5	15.3	3450.4	19.0	159.999	£7.96
R204710	40	20.0	64	140.0	1792.0	12.8	2240.0	16.0	2688.0	19.2	3360.0	24.0	195.375	£9.30
R204712	40	20.0	76	108.0	1641.6	15.2	2052.0	19.0	2462.4	22.8	3024.0	28.0	220.034	£10.12
R204714	40	20.0	89	90.7	1614.5	17.8	2018.1	22.3	2421.7	26.7	2993.1	33.0	271.722	£11.26

Material

High tensile strength chromium alloy steels.

Performance

Heat Resistance: Up to +230°C (Loss of load occurs above +120°C).

Other Info.

Spring Ends: Squared and ground. For compressed length, minus Deflection from Free Length.

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ANTI-VIBRATION & SPRINGS

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Die Springs - Medium Duty

ISO 10243 Colour Coded Blue : 24.6 - 8736N, 20 - 38mm Rod Dia.



Discounts: 6+ -10% 10+ -15% 20+ -24%

Part Number	Hole Ø ØA	Rod Ø ØB	Free Length L	Load at 1mm Def. N	Load Deflection								Weight per 1000 (kg)	Price Each 1 - 5
					For Optimum Life (25% of free length)		For Optimum Life (30% of free length)		For Optimum Life (35% of free length)		Max. Deflection			
					Load N	Deflection mm	Load N	Deflection mm	Load N	Deflection mm	Load N	Deflection mm		
R204716	40	20	102	81.0	1652.4	20.4	2065.5	25.5	2478.6	30.6	3078.0	38.0	307.478	£12.47
R204718	40	20	115	71.8	1651.4	23.0	2064.3	28.8	2477.1	34.5	3087.4	43.0	333.844	£14.56
R204720	40	20	127	62.7	1592.6	25.4	1990.7	31.8	2388.9	38.1	3009.6	48.0	371.449	£15.40
R204722	40	20	139	57.5	1598.5	27.8	1998.1	34.8	2397.8	41.7	2990.0	52.0	414.460	£18.09
R204724	40	20	152	51.6	1568.6	30.4	1960.8	38.0	2353.0	45.6	2941.2	57.0	438.170	£18.29
R204728	40	20	178	44.1	1570.0	35.6	1962.5	44.5	2354.9	53.4	2954.7	67.0	500.766	£22.77
R204732	40	20	203	36.7	1490.0	40.6	1862.5	50.8	2235.0	60.9	2789.2	76.0	586.361	£25.94
R204740	40	20	254	30.1	1529.1	50.8	1911.4	63.5	2293.6	76.2	2859.5	95.0	710.225	£33.27
R204748	40	20	305	24.6	1500.6	61.0	1875.8	76.3	2250.9	91.5	2804.4	114.0	848.836	£38.46
R204810	50	25	64	209.0	2675.2	12.8	3344.0	16.0	4012.8	19.2	5016.0	24.0	383.352	£15.48
R204812	50	25	76	168.0	2553.6	15.2	3192.0	19.0	3830.4	22.8	4704.0	28.0	446.706	£17.46
R204814	50	25	89	140.0	2492.0	17.8	3115.0	22.3	3738.0	26.7	4620.0	33.0	512.621	£19.34
R204816	50	25	102	119.0	2427.6	20.4	3034.5	25.5	3641.4	30.6	4522.0	38.0	578.062	£20.93
R204818	50	25	115	106.0	2438.0	23.0	3047.5	28.8	3657.0	34.5	4558.0	43.0	639.235	£23.53
R204820	50	25	127	97.0	2463.8	25.4	3079.8	31.8	3695.7	38.1	4656.0	48.0	702.780	£25.16
R204822	50	25	139	87.0	2418.6	27.8	3023.3	34.8	3627.9	41.7	4524.0	52.0	765.850	£27.76
R204824	50	25	152	80.0	2432.0	30.4	3040.0	38.0	3648.0	45.6	4560.0	57.0	835.084	£28.82
R204828	50	25	178	69.5	2474.2	35.6	3092.8	44.5	3711.3	53.4	4656.5	67.0	957.430	£33.59
R204832	50	25	203	59.8	2427.9	40.6	3034.9	50.8	3641.8	60.9	4544.8	76.0	1092.580	£36.46
R204836	50	25	229	50.9	2331.2	45.8	2914.0	57.3	3496.8	68.7	4377.4	86.0	1216.823	£47.76
R204840	50	25	254	43.9	2230.1	50.8	2787.7	63.5	3345.2	76.2	4170.5	95.0	1341.067	£47.40
R204848	50	25	305	38.6	2354.6	61.0	2943.3	76.3	3531.9	91.5	4400.4	114.0	1595.243	£55.46
R204912	63	38	76	312.0	4742.4	15.2	5928.0	19.0	7113.6	22.8	8736.0	28.0	658.678	£35.72
R204914	63	38	89	260.0	4628.8	17.8	5785.0	22.3	6942.0	26.7	8580.0	33.0	742.613	£37.49
R204916	63	38	102	221.0	4508.4	20.4	5635.5	25.5	6762.6	30.6	8398.0	38.0	830.816	£43.36
R204918	63	38	115	187.0	4301.0	23.0	5376.3	28.8	6451.5	34.5	8041.0	43.0	938.462	£45.98
R204920	63	38	127	168.0	4267.2	25.4	5334.0	31.8	6400.8	38.1	8064.0	48.0	1017.655	£48.65
R204924	63	38	152	136.0	4134.4	30.4	5168.0	38.0	6201.6	45.6	7752.0	57.0	1199.752	£55.89
R204928	63	38	178	114.0	4058.4	35.6	5073.0	44.4	6087.6	53.4	7638.0	67.0	1384.694	£65.84
R204932	63	38	203	100.0	4060.0	40.6	5075.0	50.8	6090.0	60.9	7600.0	76.0	1544.977	£73.91
R204936	63	38	229	89.2	4085.4	45.8	5106.7	57.3	6128.0	68.7	7671.2	86.0	1705.260	£82.93
R204940	63	38	254	78.4	3982.7	50.8	4978.4	63.5	5974.1	76.2	7448.0	95.0	1905.377	£93.79
R204948	63	38	305	64.7	3946.7	61.0	4933.4	76.3	5920.1	91.5	7375.8	114.0	2260.086	£115.48

Material

High tensile strength chromium alloy steels.

Performance

Heat Resistance: Up to +230°C (Loss of load occurs above +120°C).

Other Info.

Spring Ends: Squared and ground. For compressed length, minus Deflection from Free Length.

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