

Spring

Introduction to Springs

A spring is an elastic member which store energy and provides a force over a distance by elastic compression. Spring have ability to withstand relatively large compressions elastically. Today springs find tremendous applications in engineering and other areas, which makes wide variety of springs both in size and shapes. Springs are mainly used for following functions.

- 1] To cushion, absorb or control the energy either due to shocks, vibration as in railway wagons, automobiles, shock absorbers, press tools etc.
- 2] To exert force as in spring loaded safety valve, clutches etc.
- 3] To support moving masses or to isolate vibrations.
- 4] To store energy, as in clocks, toys, machines etc.

Springs are classified as :

- 1] Compression Springs.
- 2] Tension Springs.
- 3] Spiral Spring.
- 4] Disc Spring.
- 5] Spring rings and bars

In this catalogue we are mainly provided details of compression springs used for following applications.

- 1] Press tool dies for sheet metal working.
- 2] Moulds for plastic injection moulding.
- 3] Jigs, Fixtures and machine tools.

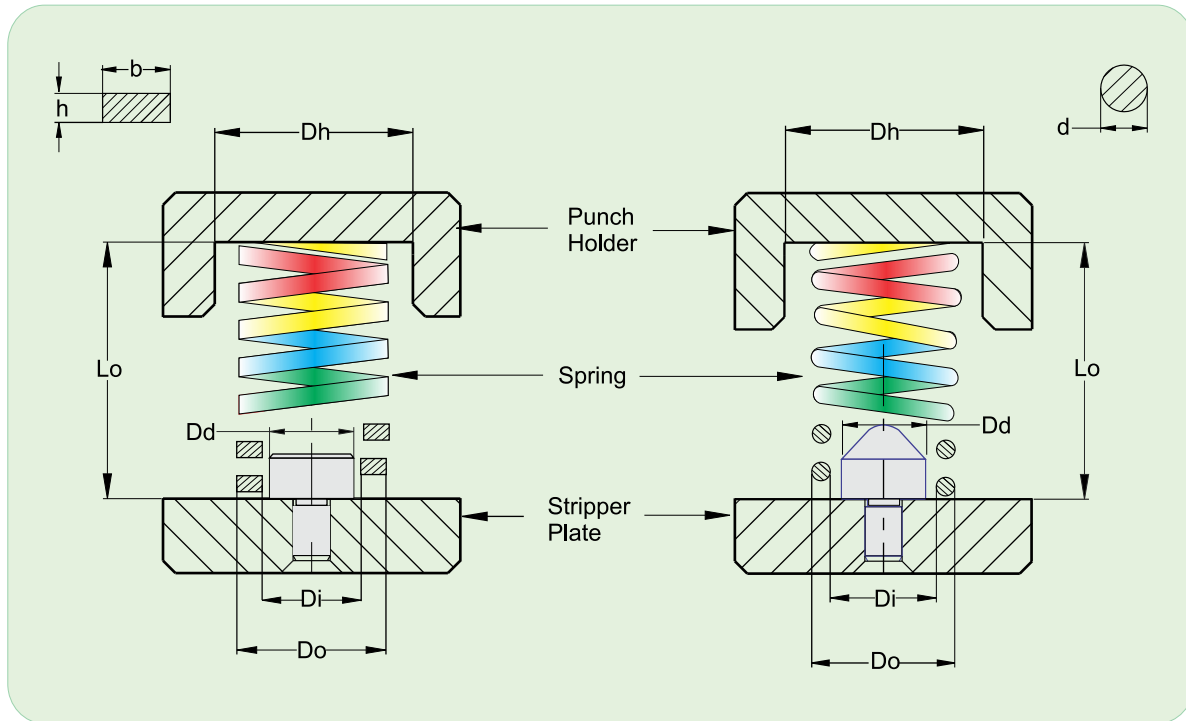
The Spring Which are commonly us in such application mention above are made of rectangular Wire, This spring are knows as Die Spring. The advantage of Die Spring over round wire spring is it can give higher compression as compare to the round wire spring & also generate higher force at same compression resulting into higher life of spring in operation. It is always recommended to use spring at its long life compression & shall never be used above average life compression.

This Catalogue covers Die Spring As per ISO10243 & JIS5012B Standard. The Color of the spring identifies its Compression & Load Characteristics. The spring covered in the catalog are Stock Items.

Guide Line - Spring selection and operating condition

- ⌚ Select the spring carefully at the design stage.
- ⌚ For longer stroke - select light load or medium load spring.
- ⌚ For more load - select heavy load or extra heavy load springs.
- ⌚ Calculate spring stroke (required compression.)
- ⌚ Preloading compression should be equal to 5 % of the length.
- ⌚ Use guide pin, a locating bore as a guide - this is essential for spring having a free length / diameter ratio exceeding 3.5
- ⌚ If possible use longer springs for lower loadings.
- ⌚ Never compress springs beyond the average life load and compression.
- ⌚ Always check spring holder heights and working strokes of moving elements after die tools has been reground.
- ⌚ Protects springs from corrosive agents.
- ⌚ Do not exceed a working temperature of 250° C, No significant load reduction occurs up to 120° C, beyond this temperature an average loss of 1 % for every 40° C must be calculated.
- ⌚ Do not replace one spring at a time, if they are multiple in use.
- ⌚ Do not alter physical characteristics of springs like cutting of coils, grinding of internal or external diameter.

Spring Geometry



Specifications

Sr. No.	Description	Terminology	Units
01]	Hole Diameter	Dh	mm
02]	Rod Diameter	Dd	mm
03]	Outside Diameter	Do	mm
04]	Inside Diameter	Di	mm
05]	Spring Mean Diameter	Dm	mm
06]	Free Length	Lo	mm
07]	Solid Length	Lb	mm
08]	Spring Compression	L	mm
09]	Spring Rate (Load required for 1mm compression)	C	Kg / mm
10]	Load - Maximum Life	Pm	Kg
11]	Compression - Maximum Life	Lm	mm
12]	Load - Medium Life	Pc	Kg
13]	Compression - Medium Life	Lc	mm
14]	Load - Average Life	Pa	Kg
15]	Compression - Average Life	La	mm
16]	Load - Out of Service	Ps	Kg
17]	Compression - Out of Service	Ls	mm
18]	Squareness	E1	mm
19]	Coiling Direction (All Die springs are right hand coiling)	RH	

Spring Compression Table

Compression in % of Length (Lo)

Series	Load	Colour	Long Life	Medium Life	Average Life	Equivalent Standards
Die Spring (Equivalent to ISO 10243)						
PGR	Light Load	Green	25%	30%	40%	ISO 10243
PBL	Medium Load	Blue	25%	30%	37.5%	ISO 10243
PRE	Heavy Load	Red	20%	25%	30%	ISO 10243
PYE	Extra Heavy Load	Yellow	17%	20%	25%	ISO 10243
Die Spring (Equivalent to JIS B 5012)						
PSF	Lightest Load	Yellow	40%	45%	50%	JIS B 5012
PSL	Light Load	Sky Blue	32%	36%	40%	JIS B 5012
PSM	Medium Load	Red	25.6%	28.8%	32%	JIS B 5012
PSH	Heavy Load	Dark Green	19.2%	21.6%	24%	JIS B 5012
PSB	Extra Heavy Load	Brown	16%	18%	20%	JIS B 5012
High Compression Die Spring						
PGL	Lightest Load	Pista	30%	40%	50%	
PSR	High Compression	Ivory	45%	50%	60%	
PTY	High Compression	Violet	45%	50%	60%	
Ultra Heavy Die Spring						
PUL	Ultra Load	Silver	10%	12%	15%	

Tolerance

Sr. No.	Specification	Tolerance
1]	Spring Rate	+ / - 10 %
2]	Free Length	+ / - 1 % +/- 0.75 mm at least
3]	Squareness	0.03 x Lo Min 0.05 Lo Max

- * Outside diameter of Spring is less than the specified hole size(Dh)
- * Inside diameter of Spring is more than the specified Rod size (Dd)



Light Load Springs

Equivalent to ISO 10243

Colour - Green



Dh	Dd	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
10	5	25	1.0	6.4	6.3	10.2	10.0	PGR 10 X 025
		32	0.9	6.9	8.0	11.1	12.8	PGR 10 X 032
		38	0.7	6.6	9.5	10.5	15.2	PGR 10 X 038
		44	0.6	6.7	11.0	10.8	17.6	PGR 10 X 044
		51	0.5	6.5	12.8	10.4	20.4	PGR 10 X 051
		64	0.4	6.9	16.0	11.2	25.6	PGR 10 X 064
		76	0.3	6.1	19.0	9.9	30.4	PGR 10 X 076
		305	0.1	8.4	76.3	13.7	122.0	PGR 10 X 305
13	6.3	25	1.8	11.4	6.3	18.3	10.0	PGR 13 X 025
		32	1.7	13.4	8.0	21.4	12.8	PGR 13 X 032
		38	1.4	13.1	9.5	21.1	15.2	PGR 13 X 038
		44	1.2	13.5	11.0	21.7	17.6	PGR 13 X 044
		51	1.2	14.8	12.8	23.8	20.4	PGR 13 X 051
		64	0.9	15.0	16.0	24.3	25.6	PGR 13 X 064
		76	0.7	13.7	19.0	22.0	30.4	PGR 13 X 076
		89	0.6	12.2	22.3	19.6	35.6	PGR 13 X 089
16	8	102	0.4	10.5	25.5	17.0	40.8	PGR 13 X 102
		305	0.06	10.7	76.3	17.4	122.0	PGR 13 X 305
		25	2.4	14.9	6.3	23.9	10.0	PGR 16 X 025
		32	2.3	18.6	8.0	29.9	12.8	PGR 16 X 032
		38	2.0	18.6	9.5	29.9	15.2	PGR 16 X 038
		44	1.7	19.1	11.0	30.7	17.6	PGR 16 X 044
		51	1.6	20.4	12.8	32.6	20.4	PGR 16 X 051
		64	1.1	17.4	16.0	27.9	25.6	PGR 16 X 064
20	10	76	1.0	19.4	19.0	31.0	30.4	PGR 16 X 076
		89	0.9	19.4	22.3	31.2	35.6	PGR 16 X 089
		102	0.8	20.1	25.5	32.4	40.8	PGR 16 X 102
		115	0.7	19.3	28.8	31.0	46.0	PGR 16 X 115
		305	0.3	19.1	76.3	31.1	122.0	PGR 16 X 305
		25	5.7	35.6	6.3	56.9	10.0	PGR 20 X 025
		32	4.6	36.7	8.0	58.8	12.8	PGR 20 X 032
		38	3.4	32.2	9.5	51.6	15.2	PGR 20 X 038
25	12.5	44	3.1	33.7	11.0	53.9	17.6	PGR 20 X 044
		51	2.5	31.7	12.8	51.0	20.4	PGR 20 X 051
		64	2.0	32.6	16.0	52.2	25.6	PGR 20 X 064
		76	1.6	31.0	19.0	49.6	30.4	PGR 20 X 076
		89	1.4	31.6	22.3	50.8	35.6	PGR 20 X 089
		102	1.2	31.1	25.5	50.0	40.8	PGR 20 X 102
		115	1.1	31.9	28.8	51.1	46.0	PGR 20 X 115
		127	1.0	30.5	31.8	49.3	50.8	PGR 20 X 127
32	16	139	0.9	29.5	34.8	47.9	56.0	PGR 20 X 139
		152	0.8	28.9	38.0	46.5	60.8	PGR 20 X 152
		305	0.4	30.5	76.3	49.8	122.0	PGR 20 X 305
		25	10.2	63.8	6.3	102.0	10.0	PGR 25 X 025
		32	8.2	65.5	8.0	104.9	12.8	PGR 25 X 032
		38	6.3	60.0	9.5	96.1	15.2	PGR 25 X 038
		44	5.4	59.3	11.0	95.0	17.6	PGR 25 X 044
		51	4.5	57.1	12.8	91.6	20.4	PGR 25 X 051
40	20	64	3.6	57.4	16.0	91.9	25.6	PGR 25 X 064
		76	2.9	54.2	19.0	86.8	30.4	PGR 25 X 076
		89	2.4	54.3	22.3	87.1	35.6	PGR 25 X 089
		102	2.2	54.8	25.5	87.8	40.8	PGR 25 X 102
		115	1.9	54.6	28.8	87.7	46.0	PGR 25 X 115
		127	1.7	54.0	31.8	86.5	50.8	PGR 25 X 127
		139	1.6	54.2	34.8	87.4	56.0	PGR 25 X 139
		305	0.1	8.4	76.3	13.7	122.0	PGR 25 X 305

Dh	Dd	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
25	12.5	152	1.4	54.0	38.0	86.8	60.8	PGR 25 X 152
		178	1.3	56.5	44.5	90.8	71.2	PGR 25 X 178
		203	1.1	53.8	50.8	86.1	81.2	PGR 25 X 203
		305	0.7	54.1	76.3	87.1	122.0	PGR 25 X 305
32	16	38	9.6	91.0	9.5	145.8	15.2	PGR 32 X 038
		44	8.1	89.1	11.0	142.7	17.6	PGR 32 X 044
		51	6.8	87.1	12.8	139.4	20.4	PGR 32 X 051
		64	5.4	86.4	16.0	138.4	25.6	PGR 32 X 064
		76	4.5	85.1	19.0	136.5	30.4	PGR 32 X 076
		89	3.8	84.3	22.3	135.0	35.6	PGR 32 X 089
		102	3.3	83.1	25.5	133.2	40.8	PGR 32 X 102
		115	3.0	84.8	28.8	136.1	46.0	PGR 32 X 115
		127	2.6	81.0	31.8	129.5	50.8	PGR 32 X 127
		139	2.3	81.3	34.8	131.4	56.0	PGR 32 X 139
		152	2.2	83.2	38.0	133.3	60.8	PGR 32 X 152
		178	1.9	82.3	44.5	132.2	71.2	PGR 32 X 178
40	20	203	1.6	81.7	50.8	130.9	81.2	PGR 32 X 203
		254	1.3	80.6	63.5	129.5	101.6	PGR 32 X 254
		305	1.1	80.1	76.3	128.2	122.0	PGR 32 X 305
		51	9.4	119.6	12.8	191.5	20.4	PGR 40 X 051
		64	7.4	119.0	16.0	190.6	25.6	PGR 40 X 064
		76	6.4	122.0	19.0	195.3	30.4	PGR 40 X 076
50	25	89	5.2	115.7	22.3	185.2	35.6	PGR 40 X 089
		102	4.4	111.7	25.5	178.9	40.8	PGR 40 X 102
		115	4.0	115.9	28.8	185.8	46.0	PGR 40 X 115
		127	3.8	119.7	31.8	191.8	50.8	PGR 40 X 127
		139	3.3	113.3	34.8	182.8	56.0	PGR 40 X 139
		152	2.9	108.3	38.0	173.6	60.8	PGR 40 X 152
		178	2.6	114.4	44.5	183.0	71.2	PGR 40 X 178
		203	2.3	117.2	50.8	188.0	81.2	PGR 40 X 203
		254	1.7	109.9	63.5	176.2	101.6	PGR 40 X 254
		305	1.5	114.4	76.3	184.2	122.0	PGR 40 X 305
63	38	64	15.9	254.4	16.0	407.0	25.6	PGR 50 X 064
		76	12.8	243.2	19.0	389.1	30.4	PGR 50 X 076
		89	11.1	247.0	22.3	395.2	35.6	PGR 50 X 089
		102	9.6	244.8	25.5	391.7	40.8	PGR 50 X 102
		115	8.3	238.6	28.8	381.8	46.0	PGR 50 X 115
		127	7.2	228.6	31.8	365.8	50.8	PGR 50 X 127
		139	6.8	236.3	34.8	380.8	56.0	PGR 50 X 139
		152	6.1	231.8	38.0	370.9	60.8	PGR 50 X 152
		178	5.3	235.9	44.5	377.4	71.2	PGR 50 X 178
		203	4.5	228.4	50.8	365.4	81.2	PGR 50 X 203
		254	3.6	228.6	63.5	365.8	101.6	PGR 50 X 254
		305	2.9	221.1	76.3	353.8	122.0	PGR 50 X 305
63	38	76	19.3	366.7	19.0	586.7	30.4	PGR 63 X 076
		89	16.1	358.2	22.3	573.2	35.6	PGR 63 X 089
		102	13.4	341.7	25.5	546.7	40.8	PGR 63 X 102
		115	11.8	339.3	28.8	542.8	46.0	PGR 63 X 115
		127	10.5	333.4	31.8	533.4	50.8	PGR 63 X 127
		152	8.6	326.8	38.0	522.9	60.8	PGR 63 X 152
		178	7.3	324.9	44.5	519.8	71.2	PGR 63 X 178
		203	6.3	319.7	50.8	511.6	81.2	PGR 63 X 203
63	38	254	4.8	304.8	63.5	487.7	101.6	PGR 63 X 254
		305	3.9	297.4	76.3	475.8	122.0	PGR 63 X 305

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



PBL

Medium Load Springs Equivalent to ISO 10243 Colour - Blue



Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life Pm (Kg)	Lm (mm)	Average Life Pa (Kg)	La (mm)	Code
10	5	25	1.6	10.2	6.3	15.3	9.4	PBL 10 X 025
		32	1.3	10.6	8.0	15.9	12.0	PBL 10 X 032
		38	1.2	11.5	9.5	17.3	14.3	PBL 10 X 038
		44	1.1	11.6	11.0	17.3	16.5	PBL 10 X 044
		51	0.9	11.5	12.8	17.3	19.1	PBL 10 X 051
		64	0.8	12.2	16.0	18.4	24.0	PBL 10 X 064
		76	0.5	10.3	19.0	15.4	28.5	PBL 10 X 076
		305	0.2	12.2	76.3	18.7	114.4	PBL 10 X 305
13	6.3	25	3.1	19.1	6.3	28.8	9.4	PBL 13 X 025
		32	2.5	20.2	8.0	30.4	12.0	PBL 13 X 032
		38	2.2	20.7	9.5	31.2	14.3	PBL 13 X 038
		44	1.9	20.7	11.0	31.1	16.5	PBL 13 X 044
		51	1.6	20.1	12.8	30.2	19.1	PBL 13 X 051
		64	1.2	19.7	16.0	29.6	24.0	PBL 13 X 064
		76	1.0	19.8	19.0	29.7	28.5	PBL 13 X 076
		89	0.9	18.9	22.3	28.7	33.4	PBL 13 X 089
		102	0.6	16.3	25.5	24.6	38.3	PBL 13 X 102
		305	0.2	16.0	76.3	24.5	114.4	PBL 13 X 305
16	8	25	5.0	31.4	6.3	47.3	9.4	PBL 16 X 025
		32	3.8	30.2	8.0	45.4	12.0	PBL 16 X 032
		38	3.5	32.8	9.5	49.5	14.3	PBL 16 X 038
		44	3.1	33.7	11.0	50.5	16.5	PBL 16 X 044
		51	2.7	34.3	12.8	51.4	19.1	PBL 16 X 051
		64	2.1	33.4	16.0	50.2	24.0	PBL 16 X 064
		76	1.8	34.4	19.0	51.7	28.5	PBL 16 X 076
		89	1.6	34.5	22.3	51.8	33.4	PBL 16 X 089
		102	1.4	34.9	25.5	52.7	38.3	PBL 16 X 102
		115	1.2	34.5	28.8	51.9	43.1	PBL 16 X 115
		305	0.5	36.6	76.3	56.0	114.4	PBL 16 X 305
20	10	25	10.0	62.4	6.3	93.9	9.4	PBL 20 X 025
		32	7.4	59.2	8.0	88.8	12.0	PBL 20 X 032
		38	5.7	54.2	9.5	81.7	14.3	PBL 20 X 038
		44	4.8	53.2	11.0	80.0	16.5	PBL 20 X 044
		51	4.3	54.2	12.8	81.2	19.1	PBL 20 X 051
		64	3.3	52.6	16.0	79.1	24.0	PBL 20 X 064
		76	2.6	48.6	19.0	72.9	28.5	PBL 20 X 076
		89	2.2	49.8	22.3	75.0	33.4	PBL 20 X 089
		102	2.0	51.3	25.5	77.3	38.3	PBL 20 X 102
		115	1.8	52.9	28.8	79.6	43.1	PBL 20 X 115
		127	1.7	53.7	31.8	88.6	47.6	PBL 20 X 127
		139	1.5	53.5	34.8	80.9	52.5	PBL 20 X 139
		152	1.3	50.9	38.0	76.1	57.0	PBL 20 X 152
		305	0.6	47.3	76.3	71.2	114.4	PBL 20 X 305
25	12.5	25	15.0	93.7	6.3	141.0	9.4	PBL 25 X 025
		32	12.0	96.2	8.0	144.4	12.0	PBL 25 X 032
		38	9.5	90.1	9.5	135.7	14.3	PBL 25 X 038
		44	8.2	90.6	11.0	136.0	16.5	PBL 25 X 044
		51	7.0	89.1	12.8	133.6	19.1	PBL 25 X 051
		64	5.4	86.4	16.0	129.7	24.0	PBL 25 X 064
		76	4.4	83.6	19.0	125.6	28.5	PBL 25 X 076
		89	3.9	86.6	22.3	130.2	33.4	PBL 25 X 089
		102	3.4	85.7	25.5	128.9	38.3	PBL 25 X 102
		115	2.9	81.9	28.8	123.1	43.1	PBL 25 X 115
		127	2.6	83.8	31.8	125.8	47.6	PBL 25 X 127
		139	2.4	82.0	34.8	124.2	52.5	PBL 25 X 139

Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life Pm (Kg)	Lm (mm)	Average Life Pa (Kg)	La (mm)	Code
25	12.5	152	2.1	80.6	38.0	121.0	57.0	PBL 25 X 152
		178	1.8	80.5	44.5	121.3	66.8	PBL 25 X 178
		203	1.6	81.7	50.8	122.6	76.1	PBL 25 X 203
		305	1.0	79.3	76.3	119.0	114.4	PBL 25 X 305
32	16	38	18.9	179.3	9.5	269.9	14.3	PBL 32 X 038
		44	16.1	177.2	11.0	265.9	16.5	PBL 32 X 044
		51	13.7	174.2	12.8	261.0	19.1	PBL 32 X 051
		64	10.1	161.4	16.0	242.4	24.0	PBL 32 X 064
		76	8.2	156.0	19.0	234.0	28.5	PBL 32 X 076
		89	7.1	156.9	22.3	235.4	33.4	PBL 32 X 089
		102	6.0	152.7	25.5	229.7	38.3	PBL 32 X 102
		115	5.3	150.9	28.8	226.4	43.1	PBL 32 X 115
		127	4.6	144.8	31.8	217.5	47.6	PBL 32 X 127
		139	4.3	149.8	34.8	226.5	52.5	PBL 32 X 139
		152	3.9	146.3	38.0	219.8	57.0	PBL 32 X 152
		178	3.3	147.3	44.5	221.4	66.8	PBL 32 X 178
40	20	203	2.9	149.2	50.8	224.3	76.1	PBL 32 X 203
		254	2.2	138.4	63.5	208.0	95.3	PBL 32 X 254
		305	1.9	141.8	76.3	213.6	114.4	PBL 32 X 305
		51	18.5	236.1	12.8	353.8	19.1	PBL 40 X 051
		64	14.3	228.5	16.0	342.7	24.0	PBL 40 X 064
		76	11.0	209.2	19.0	314.0	28.5	PBL 40 X 076
		89	9.3	205.8	22.3	309.0	33.4	PBL 40 X 089
		102	8.3	210.6	25.5	316.4	38.3	PBL 40 X 102
		115	7.3	210.5	28.8	315.7	43.1	PBL 40 X 115
		127	6.4	202.9	31.8	304.5	47.6	PBL 40 X 127
		139	5.9	203.6	34.8	307.9	52.5	PBL 40 X 139
		152	5.3	199.9	38.0	300.0	57.0	PBL 40 X 152
50	25	178	4.5	199.8	44.5	300.5	66.8	PBL 40 X 178
		203	3.7	189.8	50.8	284.9	76.1	PBL 40 X 203
		254	3.1	194.9	63.5	292.6	95.3	PBL 40 X 254
		305	2.5	190.6	76.3	287.0	114.4	PBL 40 X 305
		64	21.3	341.0	16.0	511.0	24.0	PBL 50 X 064
		76	17.1	325.0	19.0	487.0	28.5	PBL 50 X 076
		89	14.3	319.0	22.3	478.0	33.4	PBL 50 X 089
		102	12.1	309.0	25.5	463.0	38.3	PBL 50 X 102
		115	10.8	311.0	28.8	465.0	43.1	PBL 50 X 115
		127	9.9	315.0	31.8	471.0	47.6	PBL 50 X 127
		139	8.9	312.0	35.0	467.0	52.5	PBL 50 X 139
		152	8.2	312.0	38.0	467.0	57.0	PBL 50 X 152
63	38	178	7.1	316.0	44.5	474.0	66.8	PBL 50 X 178
		203	6.1	310.0	50.8	464.0	76.1	PBL 50 X 203
		229	5.2	298.0	57.3	447.0	85.9	PBL 50 X 229
		254	4.5	286.0	63.5	429.0	95.3	PBL 50 X 254
		305	3.9	298.0	76.3	446.0	114.4	PBL 50 X 305
		76	31.8	604.0	19.0	906.0	28.5	PBL 63 X 076
		89	26.5	591.0	22.3	885.0	33.4	PBL 63 X 089
		102	22.5	574.0	25.5	862.0	38.3	PBL 63 X 102
		115	19.1	550.0	28.8	823.0	43.1	PBL 63 X 115
		127	17.1	544.0	31.8	814.0	47.6	PBL 63 X 127
		152	13.9	528.0	38.0	792.0	57.0	PBL 63 X 152
		178	11.6	516.0	44.5	775.0	66.8	PBL 63 X 178
		203	10.2	518.0	50.8	776.0	76.1	PBL 63 X 203
		229	9.1	521.0	57.3	782.0	85.9	PBL 63 X 229
		254	8.0	508.0	63.5	762.0	95.3	PBL 63 X 254
		305	6.6	504.0	76.3	755.0	114.4	PBL 63 X 305

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



Heavy Load Springs

Equivalent to ISO 10243

Colour - Red

PRE



Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
10	5	25	2.3	11.3	5.0	16.9	7.5	PRE 10 X 025
		32	1.8	11.4	6.4	17.1	9.6	PRE 10 X 032
		38	1.7	13.2	7.6	19.9	11.4	PRE 10 X 038
		44	1.5	13.5	8.8	20.2	13.2	PRE 10 X 044
		51	1.3	13.3	10.2	20.0	15.3	PRE 10 X 051
		64	1.1	14.0	12.8	20.9	19.2	PRE 10 X 064
		76	0.8	11.6	15.2	17.4	22.8	PRE 10 X 076
		305	0.2	12.8	61.0	19.6	91.5	PRE 10 X 305
13	6.3	25	4.3	21.5	5.0	32.2	7.5	PRE 13 X 025
		32	3.4	21.6	6.4	32.5	9.6	PRE 13 X 032
		38	3.0	22.6	7.6	34.1	11.4	PRE 13 X 038
		44	2.5	22.0	8.8	33.2	13.2	PRE 13 X 044
		51	2.0	20.3	10.2	30.1	15.3	PRE 13 X 051
		64	1.5	19.6	12.8	29.4	19.2	PRE 13 X 064
		76	1.3	20.4	15.2	30.7	22.8	PRE 13 X 076
		89	1.2	20.6	17.8	31.0	26.7	PRE 13 X 089
		102	0.9	17.3	20.4	26.2	30.6	PRE 13 X 102
		305	0.3	17.1	61.0	26.1	91.5	PRE 13 X 305
16	8	25	7.7	38.6	5.0	57.9	7.5	PRE 16 X 025
		32	5.4	34.4	6.4	51.7	9.6	PRE 16 X 032
		38	4.9	37.5	7.6	56.4	11.4	PRE 16 X 038
		44	4.4	38.4	8.8	57.6	13.2	PRE 16 X 044
		51	3.8	38.6	10.2	57.9	15.3	PRE 16 X 051
		64	3.1	39.6	12.8	59.4	19.2	PRE 16 X 064
		76	2.6	39.8	15.2	59.8	22.8	PRE 16 X 076
		89	2.2	39.3	17.8	59.1	26.7	PRE 16 X 089
		102	2.0	40.0	20.4	60.3	30.6	PRE 16 X 102
		115	1.6	36.8	23.0	55.3	34.5	PRE 16 X 115
		305	0.7	43.9	61.0	66.3	91.5	PRE 16 X 305
20	10	25	22.0	110.2	5.0	165.2	7.5	PRE 20 X 025
		32	17.1	109.6	6.4	164.5	9.6	PRE 20 X 032
		38	13.2	100.5	7.6	150.0	11.4	PRE 20 X 038
		44	11.4	100.5	8.8	150.8	13.2	PRE 20 X 044
		51	9.6	97.7	10.2	146.7	15.3	PRE 20 X 051
		64	7.4	94.1	12.8	141.2	19.2	PRE 20 X 064
		76	6.1	92.4	15.2	138.8	22.8	PRE 20 X 076
		89	5.2	91.7	17.8	137.5	26.7	PRE 20 X 089
		102	4.5	91.8	20.4	138.0	30.6	PRE 20 X 102
		115	3.9	89.9	23.0	135.2	34.5	PRE 20 X 115
		127	3.5	88.1	25.4	132.5	38.1	PRE 20 X 127
		139	3.2	87.8	27.8	132.8	42.0	PRE 20 X 139
		152	2.9	87.2	30.4	131.2	45.6	PRE 20 X 152
		305	1.5	92.7	61.0	140.0	91.5	PRE 20 X 305
25	12.5	25	38.3	191.3	5.0	286.9	7.5	PRE 25 X 025
		32	30.3	193.9	6.4	290.8	9.6	PRE 25 X 032
		38	22.3	169.7	7.6	254.7	11.4	PRE 25 X 038
		44	19.1	167.8	8.8	251.7	13.2	PRE 25 X 044
		51	15.9	162.3	10.2	243.5	15.3	PRE 25 X 051
		64	12.5	160.5	12.8	240.9	19.2	PRE 25 X 064
		76	10.1	153.4	15.2	230.2	22.8	PRE 25 X 076
		89	8.6	152.4	17.8	228.8	26.7	PRE 25 X 089
		102	7.4	151.8	20.4	227.9	30.6	PRE 25 X 102
		115	6.6	152.5	23.0	228.8	34.5	PRE 25 X 115
		127	5.9	149.4	25.4	224.2	38.1	PRE 25 X 127
		139	5.4	149.3	27.8	225.7	42.0	PRE 25 X 139

Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
25	12.5	152	4.9	148.0	30.4	222.4	45.6	PRE 25 X 152
		178	4.2	148.8	35.6	223.3	53.4	PRE 25 X 178
		203	3.7	148.2	40.6	222.4	60.9	PRE 25 X 203
		305	2.3	142.1	61.0	213.7	91.5	PRE 25 X 305
32	16	38	39.6	300.7	7.6	451.1	11.4	PRE 32 X 038
		44	33.0	290.8	8.8	436.3	13.2	PRE 32 X 044
		51	27.7	282.9	10.2	424.5	15.3	PRE 32 X 051
		64	21.6	276.7	12.8	415.1	19.2	PRE 32 X 064
		76	17.5	266.6	15.2	400.0	22.8	PRE 32 X 076
		89	14.4	256.0	17.8	384.0	26.7	PRE 32 X 089
		102	12.4	253.8	20.4	380.8	30.6	PRE 32 X 102
		115	10.9	250.9	23.0	376.6	34.5	PRE 32 X 115
		127	9.5	240.8	25.4	361.4	38.1	PRE 32 X 127
		139	8.8	243.8	27.8	368.4	42.0	PRE 32 X 139
		152	8.0	241.7	30.4	362.8	45.6	PRE 32 X 152
		178	6.9	243.9	35.6	366.0	53.4	PRE 32 X 178
		203	6.0	244.4	40.6	367.1	60.9	PRE 32 X 203
		254	4.7	240.3	50.8	360.7	76.2	PRE 32 X 254
		305	3.9	236.1	61.0	354.7	91.5	PRE 32 X 305
40	20	51	35.7	364.1	10.2	546.2	15.3	PRE 40 X 051
		64	27.4	351.1	12.8	526.8	19.2	PRE 40 X 064
		76	22.3	339.4	15.2	509.3	22.8	PRE 40 X 076
		89	19.4	345.0	17.8	517.4	26.7	PRE 40 X 089
		102	16.6	339.0	20.4	508.8	30.6	PRE 40 X 102
		115	14.5	333.0	23.0	499.7	34.5	PRE 40 X 115
		127	13.1	331.5	25.4	497.5	38.1	PRE 40 X 127
		139	11.7	326.1	27.8	492.7	42.0	PRE 40 X 139
		152	10.7	325.6	30.4	488.4	45.6	PRE 40 X 152
		178	9.1	322.9	35.6	484.8	53.4	PRE 40 X 178
		203	7.9	318.7	40.6	478.3	60.9	PRE 40 X 203
		254	6.2	316.0	50.8	474.0	76.2	PRE 40 X 254
		305	5.2	317.2	61.0	476.0	91.5	PRE 40 X 305
50	25	64	42.1	539.0	12.8	808.0	19.2	PRE 50 X 064
		76	34.6	526.0	15.2	789.0	22.8	PRE 50 X 076
		89	29.4	523.0	17.8	785.0	26.7	PRE 50 X 089
		102	25.0	510.0	20.4	765.0	30.6	PRE 50 X 102
		115	21.9	504.0	23.0	756.0	34.5	PRE 50 X 115
		127	19.6	498.0	25.4	747.0	38.1	PRE 50 X 127
		139	17.1	475.0	27.8	718.0	42.0	PRE 50 X 139
		152	15.7	477.0	30.4	716.0	45.6	PRE 50 X 152
		178	13.7	488.0	35.6	732.0	53.4	PRE 50 X 178
		203	11.9	483.0	40.6	725.0	60.9	PRE 50 X 203
		254	9.1	462.0	50.8	693.0	76.2	PRE 50 X 254
		305	7.4	451.0	61.0	677.0	91.5	PRE 50 X 305
63	38	76	63.0	958.0	15.2	1436.0	22.8	PRE 63 X 076
		89	52.5	935.0	17.8	1402.0	26.7	PRE 63 X 089
		102	44.7	912.0	20.4	1368.0	30.6	PRE 63 X 102
		115	37.7	867.0	23.0	1301.0	34.5	PRE 63 X 115
		127	34.0	864.0	25.4	1295.0	38.1	PRE 63 X 127
		152	27.4	833.0	30.4	1249.0	45.6	PRE 63 X 152
		178	23.1	822.0	35.6	1234.0	53.4	PRE 63 X 178
		203	20.2	820.0	40.6	1230.0	60.9	PRE 63 X 203
		254	15.8	803.0	50.8	1204.0	76.2	PRE 63 X 254
		305	13.1	799.0	61.0	1199.0	91.5	PRE 63 X 305

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



PYE

Extra Heavy Load Springs Equivalent to ISO 10243 Colour - Yellow



WIRE

Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
10	5	25	3.8	16.1	4.3	23.7	6.3	PYE 10 X 025
		32	2.8	15.3	5.4	22.7	8.0	PYE 10 X 032
		38	2.4	15.7	6.5	23.0	9.5	PYE 10 X 038
		44	2.0	14.6	7.5	23.0	11.0	PYE 10 X 044
		51	1.7	14.6	8.7	21.5	12.8	PYE 10 X 051
		64	1.3	14.6	10.9	21.5	16.0	PYE 10 X 064
		76	1.1	14.3	12.9	21.1	19.0	PYE 10 X 076
		305	0.3	13.5	51.9	20.2	76.3	PYE 10 X 305
13	6.3	25	6.0	25.6	4.3	37.6	6.3	PYE 13 X 025
		32	4.5	24.1	5.4	35.8	8.0	PYE 13 X 032
		38	3.8	24.4	6.5	34.9	9.5	PYE 13 X 038
		44	3.0	22.5	7.5	34.0	11.0	PYE 13 X 044
		51	2.7	23.2	8.7	34.2	12.8	PYE 13 X 051
		64	2.2	23.5	10.9	34.6	16.0	PYE 13 X 064
		76	1.7	22.4	12.9	33.2	19.0	PYE 13 X 076
		89	1.5	22.2	15.1	32.9	22.3	PYE 13 X 089
		102	1.3	22.3	17.3	33.0	25.5	PYE 13 X 102
		305	0.4	22.3	51.9	33.5	76.3	PYE 13 X 305
16	8	25	12.0	51.7	4.3	75.8	6.3	PYE 16 X 025
		32	9.1	49.0	5.4	72.6	8.0	PYE 16X 032
		38	7.4	47.8	6.5	69.9	9.5	PYE 16 X 038
		44	6.2	46.6	7.5	68.3	11.0	PYE 16 X 044
		51	5.3	46.4	8.7	68.2	12.8	PYE 16 X 051
		64	4.2	45.8	10.9	67.2	16.0	PYE 16 X 064
		76	3.5	44.8	12.9	66.1	19.0	PYE 16 X 076
		89	3.0	45.3	15.1	67.1	22.3	PYE 16 X 089
		102	2.6	45.2	17.3	66.6	25.5	PYE 16 X 102
		115	2.3	44.7	19.6	65.8	28.8	PYE 16 X 115
		305	0.9	44.1	51.9	65.4	76.3	PYE 16 X 305
20	10	25	29.9	128.5	4.3	188.3	6.3	PYE 20 X 025
		32	22.8	123.3	5.4	182.8	8.0	PYE 20 X 032
		38	18.1	117.3	6.5	171.6	9.5	PYE 20 X 038
		44	15.2	113.9	7.5	167.2	11.0	PYE 20 X 044
		51	13.1	113.5	8.7	167.1	12.8	PYE 20 X 051
		64	10.1	110.0	10.9	161.6	16.0	PYE 20 X 064
		76	8.3	107.5	12.9	158.3	19.0	PYE 20 X 076
		89	7.1	106.9	15.1	158.1	22.3	PYE 20 X 089
		102	6.2	106.9	17.3	157.6	25.5	PYE 20 X 102
		115	5.4	105.8	19.6	155.7	28.8	PYE 20 X 115
		127	4.8	104.5	21.6	154.1	31.8	PYE 20 X 127
		139	4.4	104.2	23.8	153.5	35.0	PYE 20 X 139
		152	4.0	102.4	25.8	151.2	38.0	PYE 20 X 152
		305	2.2	112.1	51.9	165.0	76.3	PYE 20 X 305
25	12.5	25	46.8	201.3	4.3	295.0	6.3	PYE 25 X 025
		32	38.2	206.2	5.4	305.5	8.0	PYE 25 X 032
		38	35.3	229.4	6.5	335.3	9.5	PYE 25 X 038
		44	24.9	186.6	7.5	273.8	11.0	PYE 25 X 044
		51	21.2	184.1	8.7	270.9	12.8	PYE 25 X 051
		64	16.4	179.0	10.9	262.8	16.0	PYE 25 X 064
		76	13.3	172.1	12.9	253.5	19.0	PYE 25 X 076
		89	11.3	170.2	15.1	251.3	22.3	PYE 25 X 089
		102	9.8	169.9	17.3	250.5	25.5	PYE 25 X 102
		115	8.7	171.3	19.6	251.7	28.8	PYE 25 X 115
		127	7.8	168.0	21.6	247.5	31.8	PYE 25 X 127
		139	7.0	167.1	23.8	246.0	35.0	PYE 25 X 139
		152	6.5	166.9	25.8	246.1	38.0	PYE 25 X 152
		178	5.5	166.3	30.3	244.7	44.5	PYE 25 X 178
		203	4.8	165.3	34.5	243.6	50.8	PYE 25 X 203
		305	3.2	163.5	51.9	240.5	76.3	PYE 25 X 305
32	16	38	53.9	350.2	6.5	511.8	9.5	PYE 32 X 038

Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
32	16	44	43.3	324.6	7.5	476.1	11.0	PYE 32 X 044
		51	36.0	313.2	8.7	460.8	12.8	PYE 32 X 051
		64	27.5	299.2	10.9	439.3	16.0	PYE 32 X 064
		76	22.3	287.4	12.9	423.5	19.0	PYE 32 X 076
		89	18.4	277.7	15.1	410.1	22.3	PYE 32 X 089
		102	15.8	273.5	17.3	403.2	25.5	PYE 32 X 102
		115	14.3	279.9	19.6	411.3	28.8	PYE 32 X 115
		127	12.6	273.0	21.6	402.2	31.8	PYE 32 X 127
		139	11.5	272.5	23.8	401.0	35.0	PYE 32 X 139
		152	10.4	268.3	25.8	395.4	38.0	PYE 32 X 152
		178	9.0	272.4	30.3	400.4	44.5	PYE 32 X 178
		203	7.8	267.4	34.5	393.8	50.8	PYE 32 X 203
		254	6.2	267.8	43.2	393.8	63.5	PYE 32 X 254
		305	5.0	259.0	51.9	381.4	76.3	PYE 32 X 305
40	20	51	64.1	557.2	8.7	819.9	12.8	PYE 40 X 051
		64	49.7	541.4	10.9	794.8	16.0	PYE 40 X 064
		76	38.7	498.6	12.9	734.5	19.0	PYE 40 X 076
		89	32.7	494.4	15.1	730.1	22.3	PYE 40 X 089
		102	28.7	495.8	17.3	730.9	25.5	PYE 40 X 102
		115	25.0	489.8	19.6	719.7	28.8	PYE 40 X 115
		127	22.5	486.9	21.6	716.9	31.8	PYE 40 X 127
		139	19.4	461.2	23.8	678.0	35.0	PYE 40 X 139
		152	17.1	442.0	25.8	651.2	38.0	PYE 40 X 152
		178	14.9	451.2	30.3	662.7	44.5	PYE 40 X 178
		203	13.5	464.4	34.5	684.0	50.8	PYE 40 X 203
		254	10.9	471.3	43.2	693.1	63.5	PYE 40 X 254
		305	9.0	464.5	51.9	683.3	76.3	PYE 40 X 305
50	25	64	72.3	788.1	10.9	1157.0	16.0	PYE 50 X 064
		76	58.3	752.1	12.9	1108.0	19.0	PYE 50 X 076
		89	48.5	732.4	15.1	1083.0	22.3	PYE 50 X 089
		102	41.3	714.5	17.3	1053.0	25.5	PYE 50 X 102
		115	35.9	703.6	19.6	1034.0	28.8	PYE 50 X 115
		127	32.2	695.5	21.6	1024.0	31.8	PYE 50 X 127
		139	27.9	664.0	23.8	977.0	35.0	PYE 50 X 139
		152	24.4	629.5	25.8	927.0	38.0	PYE 50 X 152
		178	21.9	663.6	30.3	975.0	44.5	PYE 50 X 178
		203	19.1	659.0	34.5	970.0	50.8	PYE 50 X 203
		254	15.6	673.9	43.2	991.0	63.5	PYE 50 X 254
		305	13.0	674.7	51.9	992.0	76.3	PYE 50 X 305
63	38	76	97.1	1252.6	12.9	1554.0	19.0	PYE 63 X 076
		89	83.5	1260.9	15.1	1587.0	22.3	PYE 63 X 089
		102	71.4	1235.2	17.3	1821.0	25.5	PYE 63 X 102
		115	63.2	1238.7	19.6	1820.0	28.8	PYE 63 X 115
		127	57.6	1244.2	21.6	1832.0	31.8	PYE 63 X 127
		152	46.7	1204.9	25.8	1775.0	38.0	PYE 63 X 152
		178	39.2	1187.8	30.3	1744.0	44.5	PYE 63 X 178
		203	34.4	1186.8	34.5	1748.0	50.8	PYE 63 X 203
		254	26.8	1157.8	43.2	1702.0	63.5	PYE 63 X 254
		305	22.2	1152.2	51.9	1694.0	76.3	PYE 63 X 305

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



PSF

Lightest Load Springs
Equivalent to JIS B 5012
Colour - Yellow



Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
6	3	15	0.8	4.8	6	6	7.5	PSF 06 x 15
		20	0.6	4.8	8	6	10.0	PSF 06 x 20
		25	0.5	4.8	10	6	12.5	PSF 06 x 25
		30	0.4	4.8	12	6	15.0	PSF 06 x 30
		35	0.3	4.8	14	6	17.5	PSF 06 x 35
		40	0.3	4.8	16	6	20.0	PSF 06 x 40
8	4	10	1.6	6.4	4	8	5.0	PSF 08 x 10
		15	1.1	6.4	6	8	7.5	PSF 08 x 15
		20	0.8	6.4	8	8	10.0	PSF 08 x 20
		25	0.6	6.4	10	8	12.5	PSF 08 x 25
		30	0.5	6.4	12	8	15.0	PSF 08 x 30
		35	0.5	6.4	14	8	17.5	PSF 08 x 35
		40	0.4	6.4	16	8	20.0	PSF 08 x 40
		45	0.4	6.4	18	8	22.5	PSF 08 x 45
		50	0.3	6.4	20	8	25.0	PSF 08 x 50
		55	0.3	6.4	22	8	27.5	PSF 08 x 55
		60	0.3	6.4	24	8	30.0	PSF 08 x 60
		65	0.3	6.4	26	8	32.5	PSF 08 x 65
		70	0.2	6.4	28	8	35.0	PSF 08 x 70
		75	0.2	6.4	30	8	37.5	PSF 08 x 75
10	5	80	0.2	6.4	32	8	40.0	PSF 08 x 80
		10	2.0	8	4	10	5.0	PSF 10 x 010
		15	1.3	8	6	10	7.5	PSF 10 x 015
		20	1.0	8	8	10	10.0	PSF 10 x 020
		25	0.8	8	10	10	12.5	PSF 10 x 025
		30	0.7	8	12	10	15.0	PSF 10 x 030
		35	0.6	8	14	10	17.5	PSF 10 x 035
		40	0.5	8	16	10	20.0	PSF 10 x 040
		45	0.4	8	18	10	22.5	PSF 10 x 045
		50	0.4	8	20	10	25.0	PSF 10 x 050
		55	0.4	8	22	10	27.5	PSF 10 x 055
		60	0.3	8	24	10	30.0	PSF 10 x 060
		65	0.3	8	26	10	32.5	PSF 10 x 065
		70	0.3	8	28	10	35.0	PSF 10 x 070
12	6	75	0.3	8	30	10	37.5	PSF 10 x 075
		80	0.3	8	32	10	40.0	PSF 10 x 080
		90	0.2	8	36	10	45.0	PSF 10 x 090
		15	1.9	11	6	14	7.5	PSF 12 x 015
		20	1.4	11	8	14	10.0	PSF 12 x 020
		25	1.1	11	10	14	12.5	PSF 12 x 025
		30	0.9	11	12	14	15.0	PSF 12 x 030
		35	0.8	11	14	14	17.5	PSF 12 x 035
		40	0.7	11	16	14	20.0	PSF 12 x 040
		45	0.6	11	18	14	22.5	PSF 12 x 045
		50	0.6	11	20	14	25.0	PSF 12 x 050
		55	0.5	11	22	14	27.5	PSF 12 x 055
		60	0.5	11	24	14	30.0	PSF 12 x 060
		65	0.4	11	26	14	32.5	PSF 12 x 065
14	7	70	0.4	11	28	14	35.0	PSF 12 x 070
		75	0.4	11	30	14	37.5	PSF 12 x 075
		80	0.4	11	32	14	40.0	PSF 12 x 080
		90	0.3	11	36	14	45.0	PSF 12 x 090
		20	1.8	14.5	8	18	10.0	PSF 14 x 020
		25	1.4	14.5	10	18	12.5	PSF 14 x 025
		30	1.2	14.5	12	18	15.0	PSF 14 x 030
		35	1.0	14.5	14	18	17.5	PSF 14 x 035
		40	0.9	14.5	16	18	20.0	PSF 14 x 040
		45	0.8	14.5	18	18	22.5	PSF 14 x 045
		50	0.7	14.5	20	18	25.0	PSF 14 x 050
		55	0.7	14.5	22	18	27.5	PSF 14 x 055
		60	0.6	14.5	24	18	30.0	PSF 14 x 060
		65	0.6	14.5	26	18	32.5	PSF 14 x 065
		70	0.5	14.5	28	18	35.0	PSF 14 x 070
		75	0.5	14.5	30	18	37.5	PSF 14 x 075
		80	0.5	14.5	32	18	40.0	PSF 14 x 080
		90	0.4	14.5	36	18	45.0	PSF 14 x 090
		100	0.4	14.5	40	18	50.0	PSF 14 x 100

Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
16	8	20	2.1	17	8	21	10.0	PSF 16 x 020
		25	1.7	17	10	21	12.5	PSF 16 x 025
		30	1.4	17	12	21	15.0	PSF 16 x 030
		35	1.2	17	14	21	17.5	PSF 16 x 035
		40	1.1	17	16	21	20.0	PSF 16 x 040
		45	0.9	17	18	21	22.5	PSF 16 x 045
		50	0.8	17	20	21	25.0	PSF 16 x 050
		55	0.8	17	22	21	27.5	PSF 16 x 055
		60	0.7	17	24	21	30.0	PSF 16 x 060
		65	0.7	17	26	21	32.5	PSF 16 x 065
		70	0.6	17	28	21	35.0	PSF 16 x 070
		75	0.6	17	30	21	37.5	PSF 16 x 075
		80	0.5	17	32	21	40.0	PSF 16 x 080
		90	0.5	17	36	21	45.0	PSF 16 x 090
18	9	100	0.4	17	40	21	50.0	PSF 16 x 100
		125	0.3	17	50	21	62.5	PSF 16 x 125
		20	2.6	21	8	26	10.0	PSF 18 x 020
		25	2.1	21	10	26	12.5	PSF 18 x 025
		30	1.7	21	12	26	15.0	PSF 18 x 030
		35	1.5	21	14	26	17.5	PSF 18 x 035
		40	1.3	21	16	26	20.0	PSF 18 x 040
		45	1.2	21	18	26	22.5	PSF 18 x 045
		50	1.0	21	20	26	25.0	PSF 18 x 050
		55	1.0	21	22	26	27.5	PSF 18 x 055
		60	0.9	21	24	26	30.0	PSF 18 x 060
		65	0.8	21	26	26	32.5	PSF 18 x 065
		70	0.7	21	28	26	35.0	PSF 18 x 070
		75	0.7	21	30	26	37.5	PSF 18 x 075
20	11	80	0.7	21	32	26	40.0	PSF 18 x 080
		90	0.6	21	36	26	45.0	PSF 18 x 090
		100	0.5	21	40	26	50.0	PSF 18 x 100
		125	0.4	21	50	26	62.5	PSF 18 x 125
		20	3.2	26	8	32	10.0	PSF 20 x 020
		25	2.6	26	10	32	12.5	PSF 20 x 025
		30	2.1	26	12	32	15.0	PSF 20 x 030
		35	1.8	26	14	32	17.5	PSF 20 x 035
		40	1.6	26	16	32	20.0	PSF 20 x 040
		45	1.4	26	18	32	22.5	PSF 20 x 045
		50	1.3	26	20	32	25.0	PSF 20 x 050
		55	1.2	26	22	32	27.5	PSF 20 x 055
		60	1.1	26	24	32	30.0	PSF 20 x 060
		65	1.0	26	26	32	32.5	PSF 20 x 065
22	11	70	0.9	26	28	32	35.0	PSF 20 x 070
		75	0.9	26	30	32	37.5	PSF 20 x 075
		80	0.8	26	32	32	40.0	PSF 20 x 080
		90	0.7	26	36	32	45.0	PSF 20 x 090
		100	0.6	26	40	32	50.0	PSF 20 x 100
		125	0.5	26	50	32	62.5	PSF 20 x 125
		150	0.4	26	60	32	75.0	PSF 20 x 150
		25	3.2	32	10	40	12.5	PSF 22 x 025
		30	2.7	32	12	40	15.0	PSF 22 x 030
		35	2.3	32	14	40	17.5	PSF 22 x 035
		40	2.0	32	16	40	20.0	PSF 22 x 040
		45	1.8	32	18	40	22.5	PSF 22 x 045
		50	1.6	32	20	40	25.0	PSF 22 x 050
		55	1.5	32	22	40	27.5	PSF 22 x 055
25	12.5	60	1.3	32	24	40	30.0	PSF 22 x 060
		65	1.2	32	26	40	32.5	PSF 22 x 065
		70	1.1	32	28	40	35.0	PSF 22 x 070
		75	1.0	32	30	40	37.5	PSF 22 x 075
		80	1.0	32	32	40	40.0	PSF 22 x 080
		90	0.9	32	36	40	45.0	PSF 22 x 090
		100	0.8	32	40	40	50.0	PSF 22 x 100
		125	0.6	32	50	40	62.5	PSF 22 x 125
		150	0.5	32	60	40	75.0	PSF 22 x 150
		25	4.0	40	10	50	12.5	PSF 25 x 025
		30	3.3	40	12	50	15.0	PSF 25 x 030

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



Lightest Load Springs

Equivalent to JIS B 5012

Colour - Yellow

PSF



Do (mm)	Di (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
25	12.5	35	2.9	40	14	50	17.5	PSF 25 x 035
		40	2.5	40	16	50	20.0	PSF 25 x 040
		45	2.2	40	18	50	22.5	PSF 25 x 045
		50	2.0	40	20	50	25.0	PSF 25 x 050
		55	1.8	40	22	50	27.5	PSF 25 x 055
		60	1.7	40	24	50	30.0	PSF 25 x 060
		65	1.5	40	26	50	32.5	PSF 25 x 065
		70	1.4	40	28	50	35.0	PSF 25 x 070
		75	1.3	40	30	50	37.5	PSF 25 x 075
		80	1.3	40	32	50	40.0	PSF 25 x 080
		90	1.1	40	36	50	45.0	PSF 25 x 090
		100	1.0	40	40	50	50.0	PSF 25 x 100
		125	0.8	40	50	50	62.5	PSF 25 x 125
		150	0.7	40	60	50	75.0	PSF 25 x 150
		175	0.6	40	70	50	87.5	PSF 25 x 175
		200	0.5	40	80	50	100.0	PSF 25 x 200
27	13.5	25	4.8	48	10	60	12.5	PSF 27 x 025
		30	4.0	48	12	60	15.0	PSF 27 x 030
		35	3.4	48	14	60	17.5	PSF 27 x 035
		40	3.0	48	16	60	20.0	PSF 27 x 040
		45	2.7	48	18	60	22.5	PSF 27 x 045
		50	2.4	48	20	60	25.0	PSF 27 x 050
		55	2.2	48	22	60	27.5	PSF 27 x 055
		60	2.0	48	24	60	30.0	PSF 27 x 060
		65	1.9	48	26	60	32.5	PSF 27 x 065
		70	1.7	48	28	60	35.0	PSF 27 x 070
		75	1.6	48	30	60	37.5	PSF 27 x 075
		80	1.5	48	32	60	40.0	PSF 27 x 080
		90	1.3	48	36	60	45.0	PSF 27 x 090
		100	1.2	48	40	60	50.0	PSF 27 x 100
		125	1.0	48	50	60	62.5	PSF 27 x 125
		150	0.8	48	60	60	75.0	PSF 27 x 150
		175	0.7	48	70	60	87.5	PSF 27 x 175
		200	0.6	48	80	60	100.0	PSF 27 x 200
30	16	25	5.8	58	10	72	12.5	PSF 30 x 025
		30	4.8	58	12	72	15.0	PSF 30 x 030
		35	4.1	58	14	72	17.5	PSF 30 x 035
		40	3.6	58	16	72	20.0	PSF 30 x 040
		45	3.2	58	18	72	22.5	PSF 30 x 045
		50	2.9	58	20	72	25.0	PSF 30 x 050
		55	2.6	58	22	72	27.5	PSF 30 x 055
		60	2.4	58	24	72	30.0	PSF 30 x 060
		65	2.2	58	26	72	32.5	PSF 30 x 065
		70	2.1	58	28	72	35.0	PSF 30 x 070
		75	1.9	58	30	72	37.5	PSF 30 x 075
		80	1.8	58	32	72	40.0	PSF 30 x 080
		90	1.6	58	36	72	45.0	PSF 30 x 090
		100	1.4	58	40	72	50.0	PSF 30 x 100
		125	1.6	58	50	72	62.5	PSF 30 x 125
		150	1.0	58	60	72	75.0	PSF 30 x 150
		175	0.8	58	70	72	87.5	PSF 30 x 175
		200	0.7	58	80	72	100.0	PSF 30 x 200
35	19	40	4.9	78.4	16	98	20.0	PSF 35 x 040
		45	4.4	78.4	18	98	22.5	PSF 35 x 045
		50	3.9	78.4	20	98	25.0	PSF 35 x 050
		55	3.6	78.4	22	98	27.5	PSF 35 x 055
		60	3.3	78.4	24	98	30.0	PSF 35 x 060
		65	3.0	78.4	26	98	32.5	PSF 35 x 065
		70	2.8	78.4	28	98	35.0	PSF 35 x 070
		75	2.6	78.4	30	98	37.5	PSF 35 x 075
		80	2.5	78.4	32	98	40.0	PSF 35 x 080
		90	2.2	78.4	36	98	45.0	PSF 35 x 090
		100	2.0	78.4	40	98	50.0	PSF 35 x 100
		125	1.6	78.4	50	98	62.5	PSF 35 x 125
		150	1.3	78.4	60	98	75.0	PSF 35 x 150
		175	1.1	78.4	70	98	87.5	PSF 35 x 175
		200	0.9	78.4	80	98	100.0	PSF 35 x 200
		40	6.4	102	16	128	20.0	PSF 40 x 040

Do	Di	Lo	C	Maximum Life		Average Life		Code		
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)			
40	22	50	5.1	102	20	128	25.0	PSF 40 x 050		
		60	4.3	102	24	128	30.0	PSF 40 x 060		
		70	3.7	102	28	128	35.0	PSF 40 x 070		
		80	3.2	102	32	128	40.0	PSF 40 x 080		
		90	2.8	102	36	128	45.0	PSF 40 x 090		
		100	2.6	102	40	128	50.0	PSF 40 x 100		
		125	2.0	102	50	128	62.5	PSF 40 x 125		
		150	1.7	102	60	128	75.0	PSF 40 x 150		
		175	1.5	102	70	128	87.5	PSF 40 x 175		
		200	1.3	102	80	128	100.0	PSF 40 x 200		
		250	1.0	102	100	128	125.0	PSF 40 x 250		
		275	1.0	102	110	128	137.5	PSF 40 x 275		
		300	0.9	102	120	128	150	PSF 40 x 300		
		40	26	40	4.0	52	16	65	20.0	PSFR 40 x 040
				50	3.2	52	20	65	25.0	PSFR 40 x 050
				60	2.6	52	24	65	30.0	PSFR 40 x 060
70	2.4			52	28	65	35.0	PSFR 40 x 070		
80	2.1			52	32	65	40.0	PSFR 40 x 080		
90	1.8			52	36	65	45.0	PSFR 40 x 090		
100	1.5			52	40	65	50.0	PSFR 40 x 100		
125	1.6			52	50	65	62.5	PSFR 40 x 125		
150	0.9			52	60	65	75.0	PSFR 40 x 150		
175	0.8			52	70	65	87.5	PSFR 40 x 175		
200	0.6			52	80	65	100.0	PSFR 40 x 200		
250	0.4			52	100	65	125.0	PSFR 40 x 250		
50	27.5			50	8.0	160	20	200	25.0	PSF 50 x 050
				60	6.7	160	24	200	30.0	PSF 50 x 060
				70	5.7	160	28	200	35.0	PSF 50 x 070
				80	5.0	160	32	200	40.0	PSF 50 x 080
		90	4.4	160	36	200	45.0	PSF 50 x 090		
		100	4.0	160	40	200	50.0	PSF 50 x 100		
		125	3.2	160	50	200	62.5	PSF 50 x 125		
		150	2.7	160	60	200	75.0	PSF 50 x 150		
		175	2.3	160	70	200	87.5	PSF 50 x 175		
		200	2.0	160	80	200	100.0	PSF 50 x 200		
		250	1.6	160	100	200	125.0	PSF 50 x 250		
		300	1.3	160	120	200	150.0	PSF 50 x 300		
		350	1.1	160	140	200	175.0	PSF 50 x 350		
		400	1.0	160	160	200	200.0	PSF 50 x 400		
		450	0.9	160	180	200	225.0	PSF 50 x 450		
		500	0.8	160	200	200	250.0	PSF 50 x 500		
50	31	50	5.4	99	20	123.3	25.0	PSFR 50 x 050		
		60	4.5	99	24	123.3	30.0	PSFR 50 x 060		
		70	3.6	99	28	123.3	35.0	PSFR 50 x 070		
		80	3.0	99	32	123.3	40.0	PSFR 50 x 080		
		90	2.7	99	36	123.3	45.0	PSFR 50 x 090		
		100	2.4	99	40	123.3	50.0	PSFR 50 x 100		
		125	1.9	99	50	123.3	62.5	PSFR 50 x 125		
		150	1.6	99	60	123.3	75.0	PSFR 50 x 150		
		175	1.3	99	70	123.3	87.5	PSFR 50 x 175		
		200	1.1	99	80	123.3	100.0	PSFR 50 x 200		
		250	0.9	99	100	123.3	125.0	PSFR 50 x 250		
		300	0.8	99	120	123.3	150.0	PSFR 50 x 300		
60	33	60	10.0	230	24	288	30.0	PSF 60 x 060		
		70	8.2	230	28	288	35.0	PSF 60 x 070		
		80	7.2	230	32	288	40.0	PSF 60 x 080		
		90	6.4	230	36	288	45.0	PSF 60 x 090		
		100	5.8	230	40	288	50.0	PSF 60 x 100		
		125	4.6	230	50	288	62.5	PSF 60 x 125		
		150	3.8	230	60	288	75.0	PSF 60 x 150		
		175	3.3	230	70	288	87.5	PSF 60 x 175		
		200	2.9	230	80	288	100.0	PSF 60 x 200		
		250	2.3	230	100	288	125.0	PSF 60 x 250		
		300	1.9	230	120	288	150.0	PSF 60 x 300		
		350	1.6	230	140	288	175.0	PSF 60 x 350		
		400	1.4	230	160	288	200.0	PSF 60 x 400		
		450	1.3	230	180	288	225.0	PSF 60 x 450		
		500	1.2	230	200	288	250.0	PSF 60 x 500		
		60	36	60	7.4	148.8	24	186	30.0	PSFR 60 x 060
70	6.3			148.8	28	186	35.0	PSFR 60 x 070		
80	5.3			148.8	32	186	40.0	PSFR 60 x 080		
90	4.2			148.8	36	186	45.0	PSFR 60 x 090		
100	3.1			148.8	40	186	50.0	PSFR 60 x 100		
125	2.4			148.8	50	186	62.5	PSFR 60 x 125		
150	2.1			148.8	60	186	75.0	PSFR 60 x 150		
175	1.9			148.8	70	186	87.5	PSFR 60 x 175		
200	1.6			148.8	80	186	100.0	PSFR 60 x 200		
250	1.3			148.8	100	186	125.0	PSFR 60 x 250		
300	1.0			148.8	120	186	150.0	PSFR 60 x 300		
70	11.4			320	28	400	35.0	PSF 70 x 070		
80	10.0			320	32	400	40.0	PSF 70 x 080		
90	8.9			320	36	400	45.0	PSF 70 x 090		
100	8.0			320	40	400	50.0	PSF 70 x 100		
125	6.4			320	50	400	62.5	PSF 70 x 125		
150	5.3	320	60	400	75.0	PSF 70 x 150				
175	4.6	320	70	400	87.5	PSF 70 x 175				
200	4.0	320	80	400	100.0	PSF 70 x 200				
250	3.2	320	100	400	125.0	PSF 70 x 250				
300	2.7	320	120	400	150.0	PSF 70 x 300				
350	2.3	320	140	400	175.0	PSF 70 x 350				



PSL

Light Load Springs

Equivalent to JIS B 5012
Colour - Sky Blue



Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
6	3	15	1.3	6.4	4.8	8	6.0	PSL 06 x 015
		20	1.0	6.4	6.4	8	8.0	PSL 06 x 020
		25	0.8	6.4	8.0	8	10.0	PSL 06 x 025
		30	0.7	6.4	9.6	8	12.0	PSL 06 x 030
		35	0.6	6.4	11.2	8	14.0	PSL 06 x 035
		40	0.5	6.4	12.8	8	16.0	PSL 06 x 040
8	4	10	2.5	8.0	3.2	10	4.0	PSL 08 x 010
		15	1.7	8.0	4.8	10	6.0	PSL 08 x 015
		20	1.3	8.0	6.4	10	8.0	PSL 08 x 020
		25	1.0	8.0	8.0	10	10.0	PSL 08 x 025
		30	0.8	8.0	9.6	10	12.0	PSL 08 x 030
		35	0.7	8.0	11.2	10	14.0	PSL 08 x 035
		40	0.6	8.0	12.8	10	16.0	PSL 08 x 040
		45	0.6	8.0	14.4	10	18.0	PSL 08 x 045
		50	0.5	8.0	16.0	10	20.0	PSL 08 x 050
		55	0.5	8.0	17.6	10	22.0	PSL 08 x 055
		60	0.4	8.0	19.2	10	24.0	PSL 08 x 060
		65	0.4	8.0	20.8	10	26.0	PSL 08 x 065
		70	0.4	8.0	22.4	10	28.0	PSL 08 x 070
		75	0.3	8.0	24.0	10	30.0	PSL 08 x 075
		80	0.3	8.0	25.6	10	32.0	PSL 08 x 080
10	5	10	3.6	11.5	3.2	14.5	4.0	PSL 10 x 010
		15	2.4	11.5	4.8	14.5	6.0	PSL 10 x 015
		20	1.8	11.5	6.4	14.5	8.0	PSL 10 x 020
		25	1.5	11.5	8.0	14.5	10.0	PSL 10 x 025
		30	1.2	11.5	9.6	14.5	12.0	PSL 10 x 030
		35	1.0	11.5	11.2	14.5	14.0	PSL 10 x 035
		40	0.9	11.5	12.8	14.5	16.0	PSL 10 x 040
		45	0.8	11.5	14.4	14.5	18.0	PSL 10 x 045
		50	0.7	11.5	16.0	14.5	20.0	PSL 10 x 050
		55	0.7	11.5	17.6	14.5	22.0	PSL 10 x 055
		60	0.6	11.5	19.2	14.5	24.0	PSL 10 x 060
		65	0.6	11.5	20.8	14.5	26.0	PSL 10 x 065
		70	0.5	11.5	22.4	14.5	28.0	PSL 10 x 070
		75	0.5	11.5	24.0	14.5	30.0	PSL 10 x 075
		80	0.5	11.5	25.6	14.5	32.0	PSL 10 x 080
		90	0.4	11.5	28.8	14.5	36.0	PSL 10 x 090
12	6	15	3.5	17.0	4.8	21	6.0	PSL 12 x 015
		20	2.6	17.0	6.4	21	8.0	PSL 12 x 020
		25	2.1	17.0	8.0	21	10.0	PSL 12 x 025
		30	1.8	17.0	9.6	21	12.0	PSL 12 x 030
		35	1.5	17.0	11.2	21	14.0	PSL 12 x 035
		40	1.3	17.0	12.8	21	16.0	PSL 12 x 040
		45	1.2	17.0	14.4	21	18.0	PSL 12 x 045
		50	1.1	17.0	16.0	21	20.0	PSL 12 x 050
		55	1.0	17.0	17.6	21	22.0	PSL 12 x 055
		60	0.9	17.0	19.2	21	24.0	PSL 12 x 060
		65	0.8	17.0	20.8	21	26.0	PSL 12 x 065
		70	0.8	17.0	22.4	21	28.0	PSL 12 x 070
		75	0.7	17.0	24.0	21	30.0	PSL 12 x 075
		80	0.7	17.0	25.6	21	32.0	PSL 12 x 080
		90	0.6	17.0	28.8	21	36.0	PSL 12 x 090
14	7	20	3.5	22.0	6.4	28	8.0	PSL 14 x 020
		25	2.8	22.0	8.0	28	10.0	PSL 14 x 025
		30	2.3	22.0	9.6	28	12.0	PSL 14 x 030
		35	2.0	22.0	11.2	28	14.0	PSL 14 x 035
		40	1.8	22.0	12.8	28	16.0	PSL 14 x 040
		45	1.6	22.0	14.4	28	18.0	PSL 14 x 045
		50	1.4	22.0	16.0	28	20.0	PSL 14 x 050
		55	1.3	22.0	17.6	28	22.0	PSL 14 x 055
		60	1.2	22.0	19.2	28	24.0	PSL 14 x 060
		65	1.1	22.0	20.8	28	26.0	PSL 14 x 065
		70	1.0	22.0	22.4	28	28.0	PSL 14 x 070
		75	0.9	22.0	24.0	28	30.0	PSL 14 x 075
		80	0.9	22.0	25.6	28	32.0	PSL 14 x 080
		90	0.8	22.0	28.8	28	36.0	PSL 14 x 090
		100	0.7	22.0	32.0	28	40.0	PSL 14 x 100
16	8	20	4.4	28.0	6.4	35	8.0	PSL 16 x 020
		25	3.5	28.0	8.0	35	10.0	PSL 16 x 025
		30	2.9	28.0	9.6	35	12.0	PSL 16 x 030
		35	2.5	28.0	11.2	35	14.0	PSL 16 x 035
		40	2.2	28.0	12.8	35	16.0	PSL 16 x 040
		45	2.0	28.0	14.4	35	18.0	PSL 16 x 045
		50	1.8	28.0	16.0	35	20.0	PSL 16 x 050
		55	1.6	28.0	17.6	35	22.0	PSL 16 x 055

Do	Di	Lo	C	Maximum Life		Average Life		Code		
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)			
16	8	60	1.5	28.0	19.2	35	24.0	PSL 16 x 060		
		65	1.4	28	20.8	35	26.0	PSL 16 x 065		
		70	1.3	28	22.4	35	28.0	PSL 16 x 070		
		75	1.2	28	24.0	35	30.0	PSL 16 x 075		
		80	1.1	28	25.6	35	32.0	PSL 16 x 080		
		90	1.0	28	28.8	35	36.0	PSL 16 x 090		
		100	0.9	28	32.0	35	40.0	PSL 16 x 100		
		125	0.7	28	40.0	35	50.0	PSL 16 x 125		
18	9	20	5.4	34	6.4	43	8.0	PSL 18 x 020		
		25	4.3	34	8.0	43	10.0	PSL 18 x 025		
		30	3.6	34	9.6	43	12.0	PSL 18 x 030		
		35	3.1	34	11.2	43	14.0	PSL 18 x 035		
		40	2.7	34	12.8	43	16.0	PSL 18 x 040		
		45	2.4	34	14.4	43	18.0	PSL 18 x 045		
		50	2.2	34	16.0	43	20.0	PSL 18 x 050		
		55	2.0	34	17.6	43	22.0	PSL 18 x 055		
		60	1.8	34	19.2	43	24.0	PSL 18 x 060		
		65	1.7	34	20.8	43	26.0	PSL 18 x 065		
		70	1.5	34	22.4	43	28.0	PSL 18 x 070		
		75	1.4	34	24.0	43	30.0	PSL 18 x 075		
		80	1.4	34	25.6	43	32.0	PSL 18 x 080		
		90	1.2	34	28.8	43	36.0	PSL 18 x 090		
		100	1.1	34	32.0	43	40.0	PSL 18 x 100		
		125	0.9	34	40.0	43	50.0	PSL 18 x 125		
		20	10	20	6.4	43	6.4	54	8.0	PSL 20 x 020
				25	5.4	43	8.0	54	10.0	PSL 20 x 025
30	4.5			43	9.6	54	12.0	PSL 20 x 030		
35	3.9			43	11.2	54	14.0	PSL 20 x 035		
40	3.4			43	12.8	54	16.0	PSL 20 x 040		
45	3.0			43	14.4	54	18.0	PSL 20 x 045		
50	2.7			43	16.0	54	20.0	PSL 20 x 050		
55	2.5			43	17.6	54	22.0	PSL 20 x 055		
60	2.3			43	19.2	54	24.0	PSL 20 x 060		
65	2.1			43	20.8	54	26.0	PSL 20 x 065		
70	1.9			43	22.4	54	28.0	PSL 20 x 070		
75	1.8			43	24.0	54	30.0	PSL 20 x 075		
80	1.7			43	25.6	54	32.0	PSL 20 x 080		
90	1.5			43	28.8	54	36.0	PSL 20 x 090		
100	1.4			43	32.0	54	40.0	PSL 20 x 100		
125	1.1			43	40.0	54	50.0	PSL 20 x 125		
150	0.9			43	48.0	54	60.0	PSL 20 x 150		
22	11			25	6.7	54	8.0	67	10.0	PSL 22 x 025
		30	5.6	54	9.6	67	12.0	PSL 22 x 030		
		35	4.8	54	11.2	67	14.0	PSL 22 x 035		
		40	4.2	54	12.8	67	16.0	PSL 22 x 040		
		45	3.7	54	14.4	67	18.0	PSL 22 x 045		
		50	3.4	54	16.0	67	20.0	PSL 22 x 050		
		55	3.1	54	17.6	67	22.0	PSL 22 x 055		
		60	2.8	54	19.2	67	24.0	PSL 22 x 060		
		65	2.6	54	20.8	67	26.0	PSL 22 x 065		
		70	2.4	54	22.4	67	28.0	PSL 22 x 070		
		75	2.2	54	24.0	67	30.0	PSL 22 x 075		
		80	2.1	54	25.6	67	32.0	PSL 22 x 080		
		90	1.9	54	28.8	67	36.0	PSL 22 x 090		
		100	1.7	54	32.0	67	40.0	PSL 22 x 100		
		125	1.3	54	40.0	67	50.0	PSL 22 x 125		
		150	1.1	54	48.0	67	60.0	PSL 22 x 150		
		25	12.5	25	8.4	67	8.0	84	10.0	PSL 25 x 025
				30	7.0	67	9.6	84	12.0	PSL 25 x 030
35	6.0			67	11.2	84	14.0	PSL 25 x 035		
40	5.3			67	12.8	84	16.0	PSL 25 x 040		
45	4.7			67	14.4	84	18.0	PSL 25 x 045		
50	4.2			67	16.0	84	20.0	PSL 25 x 050		
55	3.8			67	17.6	84	22.0	PSL 25 x 055		
60	3.5			67	19.2	84	24.0	PSL 25 x 060		
65	3.2			67	20.8	84	26.0	PSL 25 x 065		
70	3.0			67	22.4	84	28.0	PSL 25 x 070		
75	2.8			67	24.0	84	30.0	PSL 25 x 075		
80	2.6			67	25.6	84	32.0	PSL 25 x 080		
90	2.3			67	28.8	84	36.0	PSL 25 x 090		
100	2.1			67	32.0	84	40.0	PSL 25 x 100		
125	1.7			67	40.0	84	50.0	PSL 25 x 125		
150	1.4			67	48.0	84	60.0	PSL 25 x 150		
175	1.2			67	56.0	84	70.0	PSL 25 x 175		
200	1.1			67	64.0	84	80.0	PSL 25 x 200		



Light Load Springs

Equivalent to JIS B 5012
Colour - Sky Blue

PSL

Do	DI	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
27	13.5	25	10.0	80	8.0	100	10.0	PSL 27 x 025
		30	8.3	80	9.6	100	12.0	PSL 27 x 030
		35	7.1	80	11.2	100	14.0	PSL 27 x 035
		40	6.3	80	12.8	100	16.0	PSL 27 x 040
		45	5.6	80	14.4	100	18.0	PSL 27 x 045
		50	5.0	80	16.0	100	20.0	PSL 27 x 050
		55	4.6	80	17.6	100	22.0	PSL 27 x 055
		60	4.2	80	19.2	100	24.0	PSL 27 x 060
		65	3.9	80	20.8	100	26.0	PSL 27 x 065
		70	3.6	80	22.4	100	28.0	PSL 27 x 070
		75	3.3	80	24.0	100	30.0	PSL 27 x 075
		80	3.1	80	25.6	100	32.0	PSL 27 x 080
		90	2.8	80	28.8	100	36.0	PSL 27 x 090
		100	2.5	80	32.0	100	40.0	PSL 27 x 100
		125	2.0	80	40.0	100	50.0	PSL 27 x 125
		150	1.7	80	48.0	100	60.0	PSL 27 x 150
		175	1.4	80	56.0	100	70.0	PSL 27 x 175
		200	1.3	80	64.0	100	80.0	PSL 27 x 200
30	15	25	12.1	91.2	8.0	114	10.0	PSL 30 x 025
		30	10.1	91.2	9.6	114	12.0	PSL 30 x 030
		35	8.7	91.2	11.2	114	14.0	PSL 30 x 035
		40	7.6	91.2	12.8	114	16.0	PSL 30 x 040
		45	6.7	91.2	14.4	114	18.0	PSL 30 x 045
		50	6.1	91.2	16.0	114	20.0	PSL 30 x 050
		55	5.5	91.2	17.6	114	22.0	PSL 30 x 055
		60	5.0	91.2	19.2	114	24.0	PSL 30 x 060
		65	4.7	91.2	20.8	114	26.0	PSL 30 x 065
		70	4.3	91.2	22.4	114	28.0	PSL 30 x 070
		75	4.0	91.2	24.0	114	30.0	PSL 30 x 075
		80	3.8	91.2	25.6	114	32.0	PSL 30 x 080
		90	3.4	91.2	28.8	114	36.0	PSL 30 x 090
		100	3.0	91.2	32.0	114	40.0	PSL 30 x 100
		125	2.4	91.2	40.0	114	50.0	PSL 30 x 125
		150	2.0	91.2	48.0	114	60.0	PSL 30 x 150
		175	1.7	91.2	56.0	114	70.0	PSL 30 x 175
		200	1.5	91.2	64.0	114	80.0	PSL 30 x 200
35	17.5	40	10.3	132	12.8	165	16.0	PSL 35 x 040
		45	9.2	132	14.4	165	18.0	PSL 35 x 045
		50	8.3	132	16.0	165	20.0	PSL 35 x 050
		55	7.5	132	17.6	165	22.0	PSL 35 x 055
		60	6.9	132	19.2	165	24.0	PSL 35 x 060
		65	6.4	132	20.8	165	26.0	PSL 35 x 065
		70	5.9	132	22.4	165	28.0	PSL 35 x 070
		75	5.5	132	24.0	165	30.0	PSL 35 x 075
		80	5.2	132	25.6	165	32.0	PSL 35 x 080
		90	4.6	132	28.8	165	36.0	PSL 35 x 090
		100	4.1	132	32.0	165	40.0	PSL 35 x 100
		125	3.3	132	40.0	165	50.0	PSL 35 x 125
		150	2.8	132	48.0	165	60.0	PSL 35 x 150
		175	2.4	132	56.0	165	70.0	PSL 35 x 175
		200	2.1	132	64.0	165	80.0	PSL 35 x 200
35	20.5	40	9.2	114.6	12.8	143.2	16.0	PSLR 35 x 040
		45	8.4	114.6	14.4	143.2	18.0	PSLR 35 x 045
		50	7.9	114.6	16.0	143.2	20.0	PSLR 35 x 050
		55	7.4	114.6	17.6	143.2	22.0	PSLR 35 x 055
		60	6.7	114.6	19.2	143.2	24.0	PSLR 35 x 060
		65	6.3	114.6	20.8	143.2	26.0	PSLR 35 x 065
		70	5.5	114.6	22.4	143.2	28.0	PSLR 35 x 070
		75	5.3	114.6	24.0	143.2	30.0	PSLR 35 x 075
		80	4.9	114.6	25.6	143.2	32.0	PSLR 35 x 080
		90	4.2	114.6	28.8	143.2	36.0	PSLR 35 x 090
		100	3.8	114.6	32.0	143.2	40.0	PSLR 35 x 100
		125	3.0	114.6	40.0	143.2	50.0	PSLR 35 x 125
		150	2.4	114.6	48.0	143.2	60.0	PSLR 35 x 150
		175	2.2	114.6	56.0	143.2	70.0	PSLR 35 x 175
		200	1.8	114.6	64.0	143.2	80.0	PSLR 35 x 200
40	20	40	13.5	173	12.8	216	16.0	PSL 40 x 040
		50	10.8	173	16.0	216	20.0	PSL 40 x 050
		60	9.0	173	19.2	216	24.0	PSL 40 x 060
		70	7.7	173	22.4	216	28.0	PSL 40 x 070
		80	6.8	173	25.6	216	32.0	PSL 40 x 080
		90	6.0	173	28.8	216	36.0	PSL 40 x 090
		100	5.4	173	32.0	216	40.0	PSL 40 x 100
		125	4.3	173	40.0	216	50.0	PSL 40 x 125
		150	3.6	173	48.0	216	60.0	PSL 40 x 150

Do	Di	Lo	C	Maximum Life		Average Life		Code		
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)			
40	20	175	3.1	173	56.0	216	70.0	PSL 40 x 175		
		200	2.7	173	64.0	216	80.0	PSL 40 x 200		
		250	2.2	173	80.0	216	100.0	PSL 40 x 250		
		275	2.00	173	88	216	110	PSL 40 x 275		
		300	1.8	173	96	216	120	PSL 40 x 300		
40	25.5	40	9.3	111.5	12.8	139.4	16.0	PSLR 40 x 040		
		50	7.7	111.5	16.0	139.4	20.0	PSLR 40 x 050		
		60	6.2	111.5	19.2	139.4	24.0	PSLR 40 x 060		
		70	5.0	111.5	22.4	139.4	28.0	PSLR 40 x 070		
		80	4.4	111.5	25.6	139.4	32.0	PSLR 40 x 080		
		90	3.9	111.5	28.8	139.4	36.0	PSLR 40 x 090		
		100	3.5	111.5	32.0	139.4	40.0	PSLR 40 x 100		
		125	2.8	111.5	40.0	139.4	50.0	PSLR 40 x 125		
		150	2.3	111.5	48.0	139.4	60.0	PSLR 40 x 150		
		175	2.0	111.5	56.0	139.4	70.0	PSLR 40 x 175		
		200	1.7	111.5	64.0	139.4	80.0	PSLR 40 x 200		
		250	1.5	111.5	80.0	139.4	100.0	PSLR 40 x 250		
		50	25	50	16.9	270	16.0	338	20.0	PSL 50 x 050
				60	14.1	270	19.2	338	24.0	PSL 50 x 060
				70	12.1	270	22.4	338	28.0	PSL 50 x 070
80	10.6			270	25.6	338	32.0	PSL 50 x 080		
90	9.4			270	28.8	338	36.0	PSL 50 x 090		
100	8.5			270	32.0	338	40.0	PSL 50 x 100		
125	6.8			270	40.0	338	50.0	PSL 50 x 125		
150	5.6			270	48.0	338	60.0	PSL 50 x 150		
175	4.8			270	56.0	338	70.0	PSL 50 x 175		
200	4.2			270	64.0	338	80.0	PSL 50 x 200		
250	3.4			270	80.0	338	100.0	PSL 50 x 250		
300	2.8			270	96.0	338	120.0	PSL 50 x 300		
350	2.4			270	112.0	338	140.0	PSL 50 x 350		
400	2.1			270	128.0	338	160.0	PSL 50 x 400		
450	1.9			270	144.0	338	180.0	PSL 50 x 450		
500	1.7	270	160.0	338	200.0	PSL 50 x 500				
50	30.5	50	11.9	200.8	16.0	251	20.0	PSLR 50 x 050		
		60	10.6	200.8	19.2	251	24.0	PSLR 50 x 060		
		70	9.0	200.8	22.4	251	28.0	PSLR 50 x 070		
		80	7.7	200.8	25.6	251	32.0	PSLR 50 x 080		
		90	6.8	200.8	28.8	251	36.0	PSLR 50 x 090		
		100	5.9	200.8	32.0	251	40.0	PSLR 50 x 100		
		125	4.9	200.8	40.0	251	50.0	PSLR 50 x 125		
		150	3.6	200.8	48.0	251	60.0	PSLR 50 x 150		
		175	3.0	200.8	56.0	251	70.0	PSLR 50 x 175		
		200	2.7	200.8	64.0	251	80.0	PSLR 50 x 200		
		250	2.4	200.8	80.0	251	100.0	PSLR 50 x 250		
		300	2.2	200.8	96.0	251	120.0	PSLR 50 x 300		
		60	30	60	20.3	389	19.2	486	24.0	PSL 60 x 060
				70	17.4	389	22.4	486	28.0	PSL 60 x 070
				80	15.2	389	25.6	486	32.0	PSL 60 x 080
90	13.5			389	28.8	486	36.0	PSL 60 x 090		
100	12.2			389	32.0	486	40.0	PSL 60 x 100		
125	9.7			389	40.0	486	50.0	PSL 60 x 125		
150	8.1			389	48.0	486	60.0	PSL 60 x 150		
175	6.9			389	56.0	486	70.0	PSL 60 x 175		
200	6.1			389	64.0	486	80.0	PSL 60 x 200		
250	4.9			389	80.0	486	100.0	PSL 60 x 250		
300	4.1			389	96.0	486	120.0	PSL 60 x 300		
350	3.5			389	112.0	486	140.0	PSL 60 x 350		
400	3.0			389	128.0	486	160.0	PSL 60 x 400		
450	2.7			389	144.0	486	180.0	PSL 60 x 450		
500	2.4			389	160.0	486	200.0	PSL 60 x 500		
60	35.5	60	16.8	310	19.2	388	24.0	PSLR 60 x 060		
		70	14.4	310	22.4	388	28.0	PSLR 60 x 070		
		80	12.1	310	25.6	388	32.0	PSLR 60 x 080		
		90	10.7	310	28.8	388	36.0	PSLR 60 x 090		
		100	9.8	310	32.0	388	40.0	PSLR 60 x 100		
		125	8.5	310	40.0	388	50.0	PSLR 60 x 125		
		150	6.8	310	48.0	388	60.0	PSLR 60 x 150		
		175	6.0	310	56.0	388	70.0	PSLR 60 x 175		
		200	5.2	310	64.0	388	80.0	PSLR 60 x 200		
		250	3.9	310	80.0	388	100.0	PSLR 60 x 250		
300	3.1	310	96.0	388	120.0	PSLR 60 x 300				
70	38.5	70	21.8	488	22.4	610	28.0	PSL 70 x 070		
		80	19.0	488	25.6	610	32.0	PSL 70 x 080		
		90	16.9	488	28.8	610	36.0	PSL 70 x 090		
		100	15.2	488	32.0	610	40.0	PSL 70 x 100		
		125	12.2	488	40.0	610	50.0	PSL 70 x 125		
		150	10.2	488	48.0	610	60.0	PSL 70 x 150		
		175	8.71	488	56.0	610	70.0	PSL 70 x 175		
		200	7.62	488	64.0	610	80.0	PSL 70 x 200		
		250	6.1	488	80.0	610	100.0	PSL 70 x 250		
		300	5.08	488	96.0	610	120.0	PSL 70 x 300		
350	4.35	488	112	610	140.0	PSL 70 x 350				



PSM

Medium Load Springs

Equivalent to JIS B 5012

Colour - Red



Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
6	3	15	2.1	8	3.8	10	4.8	PSM 06 x 015
		20	1.6	8	5.1	10	6.4	PSM 06 x 020
		25	1.3	8	6.4	10	8.0	PSM 06 x 025
		30	1.0	8	7.7	10	9.6	PSM 06 x 030
		35	0.9	8	9.0	10	11.2	PSM 06 x 035
		40	0.8	8	10.2	10	12.8	PSM 06 x 040
		45	0.7	8	11.5	10	14.4	PSM 06 x 045
		50	0.6	8	12.8	10	16.0	PSM 06 x 050
		55	0.6	8	14.1	10	17.6	PSM 06 x 055
		60	0.5	8	15.4	10	19.2	PSM 06 x 060
8	4	10	4.4	11	2.6	14	3.2	PSM 08 x 010
		15	2.9	11	3.8	14	4.8	PSM 08 x 015
		20	2.2	11	5.1	14	6.4	PSM 08 x 020
		25	1.8	11	6.4	14	8.0	PSM 08 x 025
		30	1.5	11	7.7	14	9.6	PSM 08 x 030
		35	1.3	11	9.0	14	11.2	PSM 08 x 035
		40	1.1	11	10.2	14	12.8	PSM 08 x 040
		45	1.0	11	11.5	14	14.4	PSM 08 x 045
		50	0.9	11	12.8	14	16.0	PSM 08 x 050
		55	0.8	11	14.1	14	17.6	PSM 08 x 055
		60	0.7	11	15.4	14	19.2	PSM 08 x 060
		65	0.7	11	16.6	14	20.8	PSM 08 x 065
		70	0.6	11	17.9	14	22.4	PSM 08 x 070
		75	0.6	11	19.2	14	24.0	PSM 08 x 075
		80	0.6	11	20.5	14	25.6	PSM 08 x 080
10	5	10	6.3	16	2.6	20	3.2	PSM 10 x 010
		15	4.2	16	3.8	20	4.8	PSM 10 x 015
		20	3.1	16	5.1	20	6.4	PSM 10 x 020
		25	2.5	16	6.4	20	8.0	PSM 10 x 025
		30	2.1	16	7.7	20	9.6	PSM 10 x 030
		35	1.8	16	9.0	20	11.2	PSM 10 x 035
		40	1.6	16	10.2	20	12.8	PSM 10 x 040
		45	1.4	16	11.5	20	14.4	PSM 10 x 045
		50	1.3	16	12.8	20	16.0	PSM 10 x 050
		55	1.1	16	14.1	20	17.6	PSM 10 x 055
		60	1.0	16	15.4	20	19.2	PSM 10 x 060
		65	1.0	16	16.6	20	20.8	PSM 10 x 065
		70	0.9	16	17.9	20	22.4	PSM 10 x 070
		75	0.8	16	19.2	20	24.0	PSM 10 x 075
		80	0.8	16	20.5	20	25.6	PSM 10 x 080
		90	0.7	16	23	20	28.8	PSM 10 x 090
12	6	15	6.0	23	3.8	29	4.8	PSM 12 x 015
		20	4.5	23	5.1	29	6.4	PSM 12 x 020
		25	3.6	23	6.4	29	8.0	PSM 12 x 025
		30	3.0	23	7.7	29	9.6	PSM 12 x 030
		35	2.6	23	9.0	29	11.2	PSM 12 x 035
		40	2.3	23	10.2	29	12.8	PSM 12 x 040
		45	2.0	23	11.5	29	14.4	PSM 12 x 045
		50	1.8	23	12.8	29	16.0	PSM 12 x 050
		55	1.6	23	14.1	29	17.6	PSM 12 x 055
		60	1.5	23	15.4	29	19.2	PSM 12 x 060
		65	1.4	23	16.6	29	20.8	PSM 12 x 065
		70	1.3	23	17.9	29	22.4	PSM 12 x 070
		75	1.2	23	19.2	29	24.0	PSM 12 x 075
		80	1.1	23	20.5	29	25.6	PSM 12 x 080
		90	1.0	23	23	29	28.8	PSM 12 x 090
14	7	20	6.1	31	5.1	39	6.4	PSM 14 x 020
		25	4.9	31	6.4	39	8.0	PSM 14 x 025
		30	4.1	31	7.7	39	9.6	PSM 14 x 030
		35	3.5	31	9.0	39	11.2	PSM 14 x 035
		40	3.0	31	10.2	39	12.8	PSM 14 x 040
		45	2.7	31	11.5	39	14.4	PSM 14 x 045
		50	2.4	31	12.8	39	16.0	PSM 14 x 050

Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
14	7	55	2.2	31	14.1	39	17.6	PSM 14 x 055
		60	2.0	31	15.4	39	19.2	PSM 14 x 060
		65	1.9	31	16.6	39	20.8	PSM 14 x 065
		70	1.7	31	17.9	39	22.4	PSM 14 x 070
		75	1.6	31	19.2	39	24.0	PSM 14 x 075
		80	1.5	31	20.5	39	25.6	PSM 14 x 080
		90	1.4	31	23.0	39	28.8	PSM 14 x 090
		100	1.2	31	25.6	39	32.0	PSM 14 x 100
16	8	20	8.0	41	5.1	51	6.4	PSM 16 x 020
		25	6.4	41	6.4	51	8.0	PSM 16 x 025
		30	5.3	41	7.7	51	9.6	PSM 16 x 030
		35	4.6	41	9.0	51	11.2	PSM 16 x 035
		40	4.0	41	10.2	51	12.8	PSM 16 x 040
		45	3.5	41	11.5	51	14.4	PSM 16 x 045
		50	3.2	41	12.8	51	16.0	PSM 16 x 050
		55	2.9	41	14.1	51	17.6	PSM 16 x 055
		60	2.7	41	15.4	51	19.2	PSM 16 x 060
		65	2.5	41	16.6	51	20.8	PSM 16 x 065
		70	2.3	41	17.9	51	22.4	PSM 16 x 070
		75	2.1	41	19.2	51	24.0	PSM 16 x 075
		80	2.0	41	20.5	51	25.6	PSM 16 x 080
		90	1.8	41	23.0	51	28.8	PSM 16 x 090
		100	1.6	41	25.6	51	32.0	PSM 16 x 100
18	9	20	10.2	52	5.1	65	6.4	PSM 18 x 020
		25	8.1	52	6.4	65	8.0	PSM 18 x 025
		30	6.8	52	7.7	65	9.6	PSM 18 x 030
		35	5.8	52	9.0	65	11.2	PSM 18 x 035
		40	5.1	52	10.2	65	12.8	PSM 18 x 040
		45	4.5	52	11.5	65	14.4	PSM 18 x 045
		50	4.1	52	12.8	65	16.0	PSM 18 x 050
		55	3.7	52	14.1	65	17.6	PSM 18 x 055
		60	3.4	52	15.4	65	19.2	PSM 18 x 060
		65	3.1	52	16.6	65	20.8	PSM 18 x 065
		70	2.9	52	17.9	65	22.4	PSM 18 x 070
		75	2.7	52	19.2	65	24.0	PSM 18 x 075
		80	2.5	52	20.5	65	25.6	PSM 18 x 080
		90	2.3	52	23.0	65	28.8	PSM 18 x 090
		100	2.0	52	25.6	65	32.0	PSM 18 x 100
20	10	20	12.5	64	5.1	80	6.4	PSM 20 x 020
		25	10.0	64	6.4	80	8.0	PSM 20 x 025
		30	8.3	64	7.7	80	9.6	PSM 20 x 030
		35	7.1	64	9.0	80	11.2	PSM 20 x 035
		40	6.3	64	10.2	80	12.8	PSM 20 x 040
		45	5.6	64	11.5	80	14.4	PSM 20 x 045
		50	5.0	64	12.8	80	16.0	PSM 20 x 050
		55	4.5	64	14.1	80	17.6	PSM 20 x 055
		60	4.2	64	15.4	80	19.2	PSM 20 x 060
		65	3.8	64	16.6	80	20.8	PSM 20 x 065
		70	3.6	64	17.9	80	22.4	PSM 20 x 070
		75	3.3	64	19.2	80	24.0	PSM 20 x 075
		80	3.1	64	20.5	80	25.6	PSM 20 x 080
		90	2.8	64	23.0	80	28.8	PSM 20 x 090
		100	2.5	64	25.6	80	32.0	PSM 20 x 100
		125	2.0	64	32.0	80	40.0	PSM 20 x 125
22	11	150	1.7	64	38.4	80	48.0	PSM 20 x 150
		25	12.1	78	6.4	97	8.0	PSM 22 x 025
		30	10.1	78	7.7	97	9.6	PSM 22 x 030
		35	8.7	78	9.0	97	11.2	PSM 22 x 035
		40	7.6	78	10.2	97	12.8	PSM 22 x 040
		45	6.7	78	11.5	97	14.4	PSM 22 x 045
		50	6.1	78	12.8	97	16.0	PSM 22 x 050
		55	5.5	78	14.1	97	17.6	PSM 22 x 055
		60	5.1	78	15.4	97	19.2	PSM 22 x 060

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



Medium Load Springs

Equivalent to JIS B 5012

Colour - Red

PSM



Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
22	11	65	4.7	78	16.6	97	20.8	PSM 22 x 065
		70	4.3	78	17.9	97	22.4	PSM 22 x 070
		75	4.0	78	19.2	97	24.0	PSM 22 x 075
		80	3.8	78	20.5	97	25.6	PSM 22 x 080
		90	3.4	78	23.0	97	28.8	PSM 22 x 090
		100	3.0	78	25.6	97	32.0	PSM 22 x 100
		125	2.4	78	32.0	97	40.0	PSM 22 x 125
25	12.5	150	2.0	78	38.4	97	48.0	PSM 22 x 150
		25	15.6	100	6.4	125	8.0	PSM 25 x 025
		30	13.0	100	7.7	125	9.6	PSM 25 x 030
		35	11.2	100	9.0	125	11.2	PSM 25 x 035
		40	9.8	100	10.2	125	12.8	PSM 25 x 040
		45	8.7	100	11.5	125	14.4	PSM 25 x 045
		50	7.8	100	12.8	125	16.0	PSM 25 x 050
		55	7.1	100	14.1	125	17.6	PSM 25 x 055
		60	6.5	100	15.4	125	19.2	PSM 25 x 060
		65	6.0	100	16.6	125	20.8	PSM 25 x 065
		70	5.6	100	17.9	125	22.4	PSM 25 x 070
		75	5.2	100	19.2	125	24.0	PSM 25 x 075
		80	4.9	100	20.5	125	25.6	PSM 25 x 080
		90	4.3	100	23.0	125	28.8	PSM 25 x 090
		100	3.9	100	25.6	125	32.0	PSM 25 x 100
		125	3.1	100	32.0	125	40.0	PSM 25 x 125
		150	2.6	100	38.4	125	48.0	PSM 25 x 150
27	13.5	175	2.2	100	44.8	125	56.0	PSM 25 x 175
		25	18.3	117	6.4	146	8.0	PSM 27 x 025
		30	15.2	117	7.7	146	9.6	PSM 27 x 030
		35	13.0	117	9.0	146	11.2	PSM 27 x 035
		40	11.4	117	10.2	146	12.8	PSM 27 x 040
		45	10.1	117	11.5	146	14.4	PSM 27 x 045
		50	9.1	117	12.8	146	16.0	PSM 27 x 050
		55	8.3	117	14.1	146	17.6	PSM 27 x 055
		60	7.6	117	15.4	146	19.2	PSM 27 x 060
		65	7.0	117	16.6	146	20.8	PSM 27 x 065
		70	6.5	117	17.9	146	22.4	PSM 27 x 070
		75	6.1	117	19.2	146	24.0	PSM 27 x 075
		80	5.7	117	20.5	146	25.6	PSM 27 x 080
		90	5.1	117	23.0	146	28.8	PSM 27 x 090
		100	4.6	117	25.6	146	32.0	PSM 27 x 100
		125	3.6	117	32.0	146	40.0	PSM 27 x 125
		150	3.0	117	38.4	146	48.0	PSM 27 x 150
30	15	175	2.6	117	44.8	146	56.0	PSM 27 x 175
		25	22.5	144	6.4	180	8.0	PSM 30 x 025
		30	18.8	144	7.7	180	9.6	PSM 30 x 030
		35	16.1	144	9.0	180	11.2	PSM 30 x 035
		40	14.1	144	10.2	180	12.8	PSM 30 x 040
		45	12.5	144	11.5	180	14.4	PSM 30 x 045
		50	11.3	144	12.8	180	16.0	PSM 30 x 050
		55	10.2	144	14.1	180	17.6	PSM 30 x 055
		60	9.4	144	15.4	180	19.2	PSM 30 x 060
		65	8.7	144	16.6	180	20.8	PSM 30 x 065
		70	8.0	144	17.9	180	22.4	PSM 30 x 070
		75	7.5	144	19.2	180	24.0	PSM 30 x 075
		80	7.0	144	20.5	180	25.6	PSM 30 x 080
		90	6.3	144	23.0	180	28.8	PSM 30 x 090
		100	5.6	144	25.6	180	32.0	PSM 30 x 100
		125	4.5	144	32.0	180	40.0	PSM 30 x 125
		150	3.8	144	38.4	180	48.0	PSM 30 x 150
35	17.5	175	3.2	144	44.8	180	56.0	PSM 30 x 175
		200	2.8	144	51.2	180	64.0	PSM 30 x 200
		40	19.1	195	10.2	245	12.8	PSM 35 x 040
		45	17.0	195	11.5	245	14.4	PSM 35 x 045
		50	15.3	195	12.8	245	16.0	PSM 35 x 050

Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
35	17.5	55	13.9	195	14	245	17.6	PSM 35 x 055
		60	12.8	195	15.4	245	19.2	PSM 35 x 060
		65	11.8	195	16.6	245	20.8	PSM 35 x 065
		70	10.9	195	17.9	245	22.4	PSM 35 x 070
		75	10.2	195	19.2	245	24.0	PSM 35 x 075
		80	9.6	195	20.5	245	25.6	PSM 35 x 080
		90	8.5	195	23.0	245	28.8	PSM 35 x 090
		100	7.7	195	25.6	245	32.0	PSM 35 x 100
		125	6.1	195	32.0	245	40.0	PSM 35 x 125
		150	5.1	195	38.4	245	48.0	PSM 35 x 150
		175	4.4	195	44.8	245	56.0	PSM 35 x 175
		200	3.8	195	51.2	245	64.0	PSM 35 x 200
40	20	40	25.0	256	10.2	320	12.8	PSM 40 x 040
		50	20.0	256	12.8	320	16.0	PSM 40 x 050
		60	16.6	256	15.4	320	19.2	PSM 40 x 060
		70	14.3	256	17.9	320	22.4	PSM 40 x 070
		80	12.5	256	20.5	320	25.6	PSM 40 x 080
		90	11.1	256	23.0	320	28.8	PSM 40 x 090
		100	10.0	256	25.6	320	32.0	PSM 40 x 100
		125	8.0	256	32.0	320	40.0	PSM 40 x 125
		150	6.7	256	38.4	320	48.0	PSM 40 x 150
		175	5.7	256	44.8	320	56.0	PSM 40 x 175
		200	5.0	256	51.2	320	64.0	PSM 40 x 200
		250	4.0	256	64.0	320	80.0	PSM 40 x 250
50	25	275	3.6	256	70.4	320	88.0	PSM 40 x 275
		300	3.3	256	76.8	320	96.0	PSM 40 x 300
		50	31.3	400	12.8	500	16.0	PSM 50 x 050
		60	26.0	400	15.4	500	19.2	PSM 50 x 060
		70	22.3	400	17.9	500	22.4	PSM 50 x 070
		80	19.5	400	20.5	500	25.6	PSM 50 x 080
		90	17.4	400	23.0	500	28.8	PSM 50 x 090
		100	15.6	400	25.6	500	32.0	PSM 50 x 100
		125	12.5	400	32.0	500	40.0	PSM 50 x 125
		150	10.4	400	38.4	500	48.0	PSM 50 x 150
		175	8.9	400	44.8	500	56.0	PSM 50 x 175
		200	7.8	400	51.2	500	64.0	PSM 50 x 200
60	30	250	6.3	400	64.0	500	80.0	PSM 50 x 250
		300	5.2	400	76.8	500	96.0	PSM 50 x 300
		350	4.5	400	89.6	500	112.0	PSM 50 x 350
		60	37.4	575	15.4	720	19.2	PSM 60 x 060
		70	32.1	575	17.9	720	22.4	PSM 60 x 070
		80	28.1	575	20.5	720	25.6	PSM 60 x 080
		90	25.0	575	23.0	720	28.8	PSM 60 x 090
		100	22.5	575	25.6	720	32.0	PSM 60 x 100
		125	18.0	575	32.0	720	40.0	PSM 60 x 125
		150	15.0	575	38.4	720	48.0	PSM 60 x 150
		175	12.9	575	44.8	720	56.0	PSM 60 x 175
		200	11.3	575	51.2	720	64.0	PSM 60 x 200
70	38.5	250	9.0	575	64.0	720	80.0	PSM 60 x 250
		300	7.5	575	76.8	720	96.0	PSM 60 x 300
		350	6.4	575	89.6	720	112.0	PSM 60 x 350
		70	37.9	680	17.9	850	22.4	PSM 70 x 070
		80	33.2	680	20.5	850	25.6	PSM 70 x 080
		90	29.5	680	23.0	850	28.8	PSM 70 x 090
		100	26.5	680	25.6	850	32.0	PSM 70 x 100
		125	21.2	680	32.0	850	40.0	PSM 70 x 125
		150	17.7	680	38.4	850	48.0	PSM 70 x 150
		175	15.2	680	44.8	850	56.0	PSM 70 x 175
		200	13.3	680	51.2	850	64.0	PSM 70 x 200
		250	10.6	680	64.0	850	80.0	PSM 70 x 250
		300	8.8	680	76.8	850	96.0	PSM 70 x 300
		350	7.9	680	89.6	850	112.0	PSM 70 x 350

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



PSH

Heavy Load Springs

Equivalent to JIS B 5012

Colour - Dark Green



Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
6	3	15	3.9	11	2.9	14	3.6	PSH 06 x 015
		20	2.9	11	3.8	14	4.8	PSH 06 x 020
		25	2.3	11	4.8	14	6.0	PSH 06 x 025
		30	1.9	11	5.8	14	7.2	PSH 06 x 030
		35	1.7	11	6.7	14	8.4	PSH 06 x 035
		40	1.5	11	7.7	14	9.6	PSH 06 x 040
		45	1.3	11	8.6	14	10.8	PSH 06 x 045
		50	1.2	11	9.6	14	12.0	PSH 06 x 050
		55	1.1	11	10.6	14	13.2	PSH 06 x 055
		60	1.0	11	11.5	14	14.4	PSH 06 x 060
8	4	10	8.8	17	1.9	21	2.4	PSH 08 x 010
		15	5.8	17	2.9	21	3.6	PSH 08 x 015
		20	4.4	17	3.8	21	4.8	PSH 08 x 020
		25	3.5	17	4.8	21	6.0	PSH 08 x 025
		30	2.9	17	5.8	21	7.2	PSH 08 x 030
		35	2.5	17	6.7	21	8.4	PSH 08 x 035
		40	2.2	17	7.7	21	9.6	PSH 08 x 040
		45	1.9	17	8.6	21	10.8	PSH 08 x 045
		50	1.8	17	9.6	21	12.0	PSH 08 x 050
		55	1.6	17	10.6	21	13.2	PSH 08 x 055
		60	1.5	17	11.5	21	14.4	PSH 08 x 060
		65	1.3	17	12.5	21	15.6	PSH 08 x 065
		70	1.3	17	13.4	21	16.8	PSH 08 x 070
		75	1.2	17	14.4	21	18.0	PSH 08 x 075
		80	1.1	17	15.4	21	19.2	PSH 08 x 080
10	5	10	12.5	24	1.9	30	2.4	PSH 10 x 010
		15	8.3	24	2.9	30	3.6	PSH 10 x 015
		20	6.3	24	3.8	30	4.8	PSH 10 x 020
		25	5.0	24	4.8	30	6.0	PSH 10 x 025
		30	4.2	24	5.8	30	7.2	PSH 10 x 030
		35	3.6	24	6.7	30	8.4	PSH 10 x 035
		40	3.1	24	7.7	30	9.6	PSH 10 x 040
		45	2.8	24	8.6	30	10.8	PSH 10 x 045
		50	2.5	24	9.6	30	12.0	PSH 10 x 050
		55	2.3	24	10.6	30	13.2	PSH 10 x 055
		60	2.1	24	11.5	30	14.4	PSH 10 x 060
		65	2.0	24	12.5	30	15.6	PSH 10 x 065
		70	1.8	24	13.4	30	16.8	PSH 10 x 070
		75	1.7	24	14.4	30	18.0	PSH 10 x 075
		80	1.6	24	15.4	30	19.2	PSH 10 x 080
		90	1.4	24	17.3	30	21.6	PSH 10 x 090
12	6	15	11.9	34	2.9	43	3.6	PSH 12 x 015
		20	8.9	34	3.8	43	4.8	PSH 12 x 020
		25	7.1	34	4.8	43	6.0	PSH 12 x 025
		30	6.0	34	5.8	43	7.2	PSH 12 x 030
		35	5.1	34	6.7	43	8.4	PSH 12 x 035
		40	4.5	34	7.7	43	9.6	PSH 12 x 040
		45	4.0	34	8.6	43	10.8	PSH 12 x 045
		50	3.6	34	9.6	43	12.0	PSH 12 x 050
		55	3.3	34	10.6	43	13.2	PSH 12 x 055
		60	3.0	34	11.5	43	14.4	PSH 12 x 060
		65	2.7	34	12.5	43	15.6	PSH 12 x 065
		70	2.5	34	13.4	43	16.8	PSH 12 x 070
		75	2.4	34	14.4	43	18.0	PSH 12 x 075
		80	2.2	34	15.4	43	19.2	PSH 12 x 080
		90	2.0	34	17.3	43	21.6	PSH 12 x 090
14	7	20	12.3	47	3.8	59	4.8	PSH 14 x 020
		25	9.8	47	4.8	59	6.0	PSH 14 x 025
		30	8.2	47	5.8	59	7.2	PSH 14 x 030
		35	7.0	47	6.7	59	8.4	PSH 14 x 035
		40	6.1	47	7.7	59	9.6	PSH 14 x 040
		45	5.5	47	8.6	59	10.8	PSH 14 x 045
		50	4.9	47	9.6	59	12.0	PSH 14 x 050
		55	4.5	47	10.6	59	13.2	PSH 14 x 055
		60	4.1	47	11.5	59	14.4	PSH 14 x 060

Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
14	7	65	3.8	47	12.5	59	15.6	PSH 14 x 65
		70	3.5	47	13.4	59	16.8	PSH 14 x 070
		75	3.3	47	14.4	59	18.0	PSH 14 x 075
		80	3.1	47	15.4	59	19.2	PSH 14 x 080
		90	2.7	47	17.3	59	21.6	PSH 14 x 090
		100	2.5	47	19.2	59	24	PSH 14 x 100
16	8	20	16.0	62	3.8	77	4.8	PSH 16 x 020
		25	12.8	62	4.8	77	6.0	PSH 16 x 025
		30	10.7	62	5.8	77	7.2	PSH 16 x 030
		35	9.2	62	6.7	77	8.4	PSH 16 x 035
		40	8.0	62	7.7	77	9.6	PSH 16 x 040
		45	7.1	62	8.6	77	10.8	PSH 16 x 045
		50	6.4	62	9.6	77	12.0	PSH 16 x 050
		55	5.8	62	10.6	77	13.2	PSH 16 x 055
		60	5.3	62	11.5	77	14.4	PSH 16 x 060
		65	4.9	62	12.5	77	15.6	PSH 16 x 065
		70	4.6	62	13.4	77	16.8	PSH 16 x 070
		75	4.3	62	14.4	77	18.0	PSH 16 x 075
		80	4.0	62	15.4	77	19.2	PSH 16 x 080
		90	3.6	62	17.3	77	21.6	PSH 16 x 090
		100	3.2	62	19.2	77	24.0	PSH 16 x 100
18	9	20	20.2	78	3.8	97	4.8	PSH 18 x 020
		25	16.2	78	4.8	97	6.0	PSH 18 x 025
		30	13.5	78	5.8	97	7.2	PSH 18 x 030
		35	11.5	78	6.7	97	8.4	PSH 18 x 035
		40	10.1	78	7.7	97	9.6	PSH 18 x 040
		45	9.0	78	8.6	97	10.8	PSH 18 x 045
		50	8.1	78	9.6	97	12.0	PSH 18 x 050
		55	7.3	78	10.6	97	13.2	PSH 18 x 055
		60	6.7	78	11.5	97	14.4	PSH 18 x 060
		65	6.2	78	12.5	97	15.6	PSH 18 x 065
		70	5.8	78	13.4	97	16.8	PSH 18 x 070
		75	5.4	78	14.4	97	18.0	PSH 18 x 075
		80	5.0	78	15.4	97	19.2	PSH 18 x 080
		90	4.5	78	17.3	97	21.6	PSH 18 x 090
		100	4.0	78	19.2	97	24.0	PSH 18 x 100
20	10	20	25.0	96	3.8	120	4.8	PSH 20 x 020
		25	20.0	96	4.8	120	6.0	PSH 20 x 025
		30	16.7	96	5.8	120	7.2	PSH 20 x 030
		35	14.3	96	6.7	120	8.4	PSH 20 x 035
		40	12.5	96	7.7	120	9.6	PSH 20 x 040
		45	11.1	96	8.6	120	10.8	PSH 20 x 045
		50	10.0	96	9.6	120	12.0	PSH 20 x 050
		55	9.1	96	10.6	120	13.2	PSH 20 x 055
		60	8.3	96	11.5	120	14.4	PSH 20 x 060
		65	7.7	96	12.5	120	15.6	PSH 20 x 065
		70	7.1	96	13.4	120	16.8	PSH 20 x 070
		75	6.7	96	14.4	120	18.0	PSH 20 x 075
		80	6.3	96	15.4	120	19.2	PSH 20 x 080
		90	5.6	96	17.3	120	21.6	PSH 20 x 090
		100	5.0	96	19.2	120	24.0	PSH 20 x 100
125	4.0	96	24.0	120	30.0	PSH 20 x 125		
150	3.3	96	28.8	120	36.0	PSH 20 x 150		
22	11	25	24.2	116	4.8	145	6.0	PSH 22 x 025
		30	20.1	116	5.8	145	7.2	PSH 22 x 030
		35	17.3	116	6.7	145	8.4	PSH 22 x 035
		40	15.1	116	7.7	145	9.6	PSH 22 x 040
		45	13.4	116	8.6	145	10.8	PSH 22 x 045
		50	12.1	116	9.6	145	12.0	PSH 22 x 050
		55	10.9	116	10.6	145	13.2	PSH 22 x 055
		60	10.1	116	11.5	145	14.4	PSH 22 x 060
		65	9.3	116	12.5	145	15.6	PSH 22 x 065
		70	8.6	116	13.4	145	16.8	PSH 22 x 070
		75	8.0	116	14.4	145	18.0	PSH 22 x 075
		80	7.6	116	15.4	145	19.2	PSH 22 x 080

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



Heavy Load Springs

Equivalent to JIS B 5012

Colour - Dark Green

PSH



Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
22	11	90	6.7	116	17.3	145	21.6	PSH 22 x 090
		100	6.0	116	19.2	145	24.0	PSH 22 x 100
		125	4.8	116	24.0	145	30.0	PSH 22 x 125
		150	4.0	116	28.8	145	36.0	PSH 22 x 150
25	12.5	25	31.2	150	4.8	187	6.0	PSH 25 x 025
		30	26.0	150	5.8	187	7.2	PSH 25 x 030
		35	22.3	150	6.7	187	8.4	PSH 25 x 035
		40	19.5	150	7.7	187	9.6	PSH 25 x 040
		45	17.3	150	8.6	187	10.8	PSH 25 x 045
		50	15.6	150	9.6	187	12.0	PSH 25 x 050
		55	14.2	150	10.6	187	13.2	PSH 25 x 055
		60	13.0	150	11.5	187	14.4	PSH 25 x 060
		65	12.0	150	12.5	187	15.6	PSH 25 x 065
		70	11.1	150	13.4	187	16.8	PSH 25 x 070
		75	10.4	150	14.4	187	18.0	PSH 25 x 075
		80	9.7	150	15.4	187	19.2	PSH 25 x 080
		90	8.7	150	17.3	187	21.6	PSH 25 x 090
		100	7.8	150	19.2	187	24.0	PSH 25 x 100
		125	6.2	150	24.0	187	30.0	PSH 25 x 125
		150	5.2	150	28.8	187	36.0	PSH 25 x 150
		175	4.5	150	33.6	187	42.0	PSH 25 x 175
27	13.5	25	36.4	175	4.8	219	6.0	PSH 27 x 025
		30	30.4	175	5.8	219	7.2	PSH 27 x 030
		35	26.2	175	6.7	219	8.4	PSH 27 x 035
		40	22.8	175	7.7	219	9.6	PSH 27 x 040
		45	20.3	175	8.6	219	10.8	PSH 27 x 045
		50	18.3	175	9.6	219	12.0	PSH 27 x 050
		55	16.5	175	10.6	219	13.2	PSH 27 x 055
		60	15.2	175	11.5	219	14.4	PSH 27 x 060
		65	14.0	175	12.5	219	15.6	PSH 27 x 065
		70	13.0	175	13.4	219	16.8	PSH 27 x 070
		75	12.1	175	14.4	219	18.0	PSH 27 x 075
		80	11.4	175	15.4	219	19.2	PSH 27 x 080
		90	10.1	175	17.3	219	21.6	PSH 27 x 090
		100	9.1	175	19.2	219	24.0	PSH 27 x 100
		125	7.3	175	24.0	219	30.0	PSH 27 x 125
		150	6.1	175	28.8	219	36.0	PSH 27 x 150
		175	5.2	175	33.6	219	42.0	PSH 27 x 175
30	15	25	45.0	216	4.8	270	6.0	PSH 30 x 025
		30	37.5	216	5.8	270	7.2	PSH 30 x 030
		35	32.3	216	6.7	270	8.4	PSH 30 x 035
		40	28.1	216	7.7	270	9.6	PSH 30 x 040
		45	25.0	216	8.6	270	10.8	PSH 30 x 045
		50	22.5	216	9.6	270	12.0	PSH 30 x 050
		55	20.4	216	10.6	270	13.2	PSH 30 x 055
		60	18.8	216	11.5	270	14.4	PSH 30 x 060
		65	17.3	216	12.5	270	15.6	PSH 30 x 065
		70	16.1	216	13.4	270	16.8	PSH 30 x 070
		75	15.0	216	14.4	270	18.0	PSH 30 x 075
		80	14.1	216	15.4	270	19.2	PSH 30 x 080
		90	12.5	216	17.3	270	21.6	PSH 30 x 090
		100	11.3	216	19.2	270	24.0	PSH 30 x 100
		125	9.0	216	24.0	270	30.0	PSH 30 x 125
		150	7.5	216	28.8	270	36.0	PSH 30 x 150
		175	6.4	216	33.6	270	42.0	PSH 30 x 175
		200	5.6	216	38.4	270	48.0	PSH 30 x 200
35	17.5	40	38.2	293	7.7	367	9.6	PSH 35 x 040
		45	34.0	293	8.6	367	10.8	PSH 35 x 045
		50	30.6	293	9.6	367	12.0	PSH 35 x 050
		55	27.8	293	10.6	367	13.2	PSH 35 x 055
		60	25.5	293	11.5	367	14.4	PSH 35 x 060
		65	23.5	293	12.5	367	15.6	PSH 35 x 065
		70	21.8	293	13.4	367	16.8	PSH 35 x 070
		75	20.4	293	14.4	367	18.0	PSH 35 x 075
		80	19.1	293	15.4	367	19.2	PSH 35 x 080

Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
35	17.5	90	17.0	293	17.3	367	21.6	PSH 35 x 090
		100	15.3	293	19.2	367	24.0	PSH 35 x 100
		125	12.2	293	24.0	367	30.0	PSH 35 x 125
		150	10.2	293	28.8	367	36.0	PSH 35 x 150
		175	8.7	293	33.6	367	42.0	PSH 35 x 175
		200	7.6	293	38.4	367	48.0	PSH 35 x 200
		40	50.0	384	7.7	480	9.6	PSH 40 x 040
		45	44.4	384	8.6	480	10.8	PSH 40 x 045
40	20	50	40.0	384	9.6	480	12.0	PSH 40 x 050
		55	36.3	384	10.6	480	13.2	PSH 40 x 055
		60	33.3	384	11.5	480	14.4	PSH 40 x 060
		65	30.7	384	12.5	480	15.6	PSH 40 x 065
		70	28.6	384	13.4	480	16.8	PSH 40 x 070
		75	26.6	384	14.4	480	18.0	PSH 40 x 075
		80	25.0	384	15.4	480	19.2	PSH 40 x 080
		90	22.2	384	17.3	480	21.6	PSH 40 x 090
		100	20.0	384	19.2	480	24.0	PSH 40 x 100
		125	16.0	384	24.0	480	30.0	PSH 40 x 125
		150	13.3	384	28.8	480	36.0	PSH 40 x 150
		175	11.4	384	33.6	480	42.0	PSH 40 x 175
		200	10.0	384	38.4	480	48.0	PSH 40 x 200
		225	8.9	384	43.2	480	54.0	PSH 40 x 225
		250	8.0	384	48.0	480	60.0	PSH 40 x 250
		275	7.3	384	52.8	480	66.0	PSH 40 x 275
		300	6.7	384	57.6	480	72.0	PSH 40 x 300
50	25	50	62.5	600	9.6	750	12.0	PSH 50 x 050
		55	56.8	600	10.6	750	13.2	PSH 50 x 055
		60	52.1	600	11.5	750	14.4	PSH 50 x 060
		65	48.0	600	12.5	750	15.6	PSH 50 x 065
		70	44.6	600	13.4	750	16.8	PSH 50 x 070
		75	41.6	600	14.4	750	18.0	PSH 50 x 075
		80	39.1	600	15.4	750	19.2	PSH 50 x 080
		90	34.7	600	17.3	750	21.6	PSH 50 x 090
		100	31.2	600	19.2	750	24.0	PSH 50 x 100
		125	25.0	600	24.0	750	30.0	PSH 50 x 125
		150	20.8	600	28.8	750	36.0	PSH 50 x 150
		175	17.8	600	33.6	750	42.0	PSH 50 x 175
		200	15.6	600	38.4	750	48.0	PSH 50 x 200
		225	13.9	600	43.2	750	54.0	PSH 50 x 225
		250	12.5	600	48.0	750	60.0	PSH 50 x 250
		275	11.4	600	52.8	750	66.0	PSH 50 x 275
		300	10.4	600	57.6	750	72.0	PSH 50 x 300
		350	8.9	600	67.2	750	84.0	PSH 50 x 350
60	30	60	75.0	864	11.5	1080	14.4	PSH 60 x 060
		70	64.3	864	13.4	1080	16.8	PSH 60 x 070
		80	56.3	864	15.4	1080	19.2	PSH 60 x 080
		90	50.0	864	17.3	1080	21.6	PSH 60 x 090
		100	45.0	864	19.2	1080	24.0	PSH 60 x 100
		125	36.0	864	24.0	1080	30.0	PSH 60 x 125
		150	30.0	864	28.8	1080	36.0	PSH 60 x 150
		175	25.7	864	33.6	1080	42.0	PSH 60 x 175
		200	22.5	864	38.4	1080	48.0	PSH 60 x 200
		225	20.0	864	43.2	1080	54.0	PSH 60 x 225
		250	18.0	864	48.0	1080	60.0	PSH 60 x 250
		275	16.4	864	52.8	1080	66.0	PSH 60 x 275
		300	15.0	864	57.6	1080	72.0	PSH 60 x 300
		350	12.8	864	67.2	1080	84.0	PSH 60 x 350
70	38.5	70	76.2	1024	13.4	1280	16.8	PSH 70 x 070
		80	66.7	1024	15.4	1280	19.2	PSH 70 x 080
		90	59.3	1024	17.3	1280	21.6	PSH 70 x 090
		100	53.4	1024	19.2	1280	24.0	PSH 70 x 100
		125	42.7	1024	24.0	1280	30.0	PSH 70 x 125
		150	35.6	1024	28.8	1280	36.0	PSH 70 x 150
		175	30.5	1024	33.6	1280	42.0	PSH 70 x 175
		200	26.7	1024	38.4	1280	48.0	PSH 70 x 200
		250	21.3	1024	48.0	1280	60.0	PSH 70 x 250
		300	17.8	1024	57.6	1280	72.0	PSH 70 x 300</



PSB

Extra Heavy Load Springs
Equivalent to JIS B 5012
Colour - Brown



Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
6	3	15	6.0	14	2.4	18	3	PSB 06 x 015
		20	4.5	14	3.2	18	4	PSB 06 x 020
		25	3.6	14	4.0	18	5	PSB 06 x 025
		30	3.0	14	4.8	18	6	PSB 06 x 030
		35	2.6	14	5.6	18	7	PSB 06 x 035
		40	2.3	14	6.4	18	8	PSB 06 x 040
		45	2.0	14	7.2	18	9	PSB 06 x 045
		50	1.8	14	8.0	18	10	PSB 06 x 050
		55	1.6	14	8.8	18	11	PSB 06 x 055
		60	1.5	14	9.6	18	12	PSB 06 x 060
8	4	10	16.5	26	1.6	33	2	PSB 08 x 010
		15	11.0	26	2.4	33	3	PSB 08 x 015
		20	8.2	26	3.2	33	4	PSB 08 x 020
		25	6.6	26	4.0	33	5	PSB 08 x 025
		30	5.5	26	4.8	33	6	PSB 08 x 030
		35	4.7	26	5.6	33	7	PSB 08 x 035
		40	4.1	26	6.4	33	8	PSB 08 x 040
		45	3.7	26	7.2	33	9	PSB 08 x 045
		50	3.3	26	8.0	33	10	PSB 08 x 050
		55	3.0	26	8.8	33	11	PSB 08 x 055
		60	2.7	26	9.6	33	12	PSB 08 x 060
		65	2.5	26	10.4	33	13	PSB 08 x 065
		70	2.4	26	11.2	33	14	PSB 08 x 070
		75	2.2	26	12.0	33	15	PSB 08 x 075
		80	2.1	26	12.8	33	16	PSB 08 x 080
10	5	10	22.5	36	1.6	45	2	PSB 10 x 010
		15	15.0	36	2.4	45	3	PSB 10 x 015
		20	11.2	36	3.2	45	4	PSB 10 x 020
		25	9.0	36	4.0	45	5	PSB 10 x 025
		30	7.5	36	4.8	45	6	PSB 10 x 030
		35	6.4	36	5.6	45	7	PSB 10 x 035
		40	5.6	36	6.4	45	8	PSB 10 x 040
		45	5.0	36	7.2	45	9	PSB 10 x 045
		50	4.5	36	8.0	45	10	PSB 10 x 050
		55	4.1	36	8.8	45	11	PSB 10 x 055
		60	3.8	36	9.6	45	12	PSB 10 x 060
		65	3.5	36	10.4	45	13	PSB 10 x 065
		70	3.2	36	11.2	45	14	PSB 10 x 070
		75	3.0	36	12.0	45	15	PSB 10 x 075
		80	2.8	36	12.8	45	16	PSB 10 x 080
		90	2.5	36	14.4	45	18	PSB 10 x 090
12	6	15	19.3	46	2.4	58	3	PSB 12 x 015
		20	14.5	46	3.2	58	4	PSB 12 x 020
		25	11.6	46	4.0	58	5	PSB 12 x 025
		30	9.7	46	4.8	58	6	PSB 12 x 030
		35	8.3	46	5.6	58	7	PSB 12 x 035
		40	7.3	46	6.4	58	8	PSB 12 x 040
		45	6.4	46	7.2	58	9	PSB 12 x 045
		50	5.8	46	8.0	58	10	PSB 12 x 050
		55	5.3	46	8.8	58	11	PSB 12 x 055
		60	4.8	46	9.6	58	12	PSB 12 x 060
		65	4.4	46	10.4	58	13	PSB 12 x 065
		70	4.1	46	11.2	58	14	PSB 12 x 070
		75	3.9	46	12.0	58	15	PSB 12 x 075
		80	3.6	46	12.8	58	16	PSB 12 x 080
		90	3.2	46	14.4	58	18	PSB 12 x 090
14	7	20	18.8	60	3.2	75	4	PSB 14 x 020
		25	15.0	60	4.0	75	5	PSB 14 x 025
		30	12.5	60	4.8	75	6	PSB 14 x 030
		35	10.7	60	5.6	75	7	PSB 14 x 035
		40	9.4	60	6.4	75	8	PSB 14 x 040
		45	8.3	60	7.2	75	9	PSB 14 x 045
		50	7.5	60	8.0	75	10	PSB 14 x 050
		55	6.8	60	8.8	75	11	PSB 14 x 055
		60	6.3	60	9.6	75	12	PSB 14 x 060

Do	Di	Lo	C	Maximum Life		Average Life		Code
(mm)	(mm)	(mm)	(Kg/mm)	Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
14	7	65	5.8	60	10.4	75	13	PSB 14 x 065
		70	5.4	60	11.2	75	14	PSB 14 x 070
		75	5.0	60	12.0	75	15	PSB 14 x 075
		80	4.7	60	12.8	75	16	PSB 14 x 080
		90	4.2	60	14.4	75	18	PSB 14 x 090
		100	3.8	60	16.0	75	20	PSB 14 x 100
16	8	20	25.0	80	3.2	100	4	PSB 16 x 020
		25	20.0	80	4.0	100	5	PSB 16 x 025
		30	16.7	80	4.8	100	6	PSB 16 x 030
		35	14.3	80	5.6	100	7	PSB 16 x 035
		40	12.5	80	6.4	100	8	PSB 16 x 040
		45	11.1	80	7.2	100	9	PSB 16 x 045
		50	10.0	80	8.0	100	10	PSB 16 x 050
		55	9.1	80	8.8	100	11	PSB 16 x 055
		60	8.3	80	9.6	100	12	PSB 16 x 060
		65	7.7	80	10.4	100	13	PSB 16 x 065
		70	7.1	80	11.2	100	14	PSB 16 x 070
		75	6.7	80	12.0	100	15	PSB 16 x 075
		80	6.3	80	12.8	100	16	PSB 16 x 080
		90	5.6	80	14.4	100	18	PSB 16 x 090
		100	5.0	80	16.0	100	20	PSB 16 x 100
18	9	20	31.2	100	3.2	125	4	PSB 18 x 020
		25	25.0	100	4.0	125	5	PSB 18 x 025
		30	20.8	100	4.8	125	6	PSB 18 x 030
		35	17.9	100	5.6	125	7	PSB 18 x 035
		40	15.6	100	6.4	125	8	PSB 18 x 040
		45	13.9	100	7.2	125	9	PSB 18 x 045
		50	12.5	100	8.0	125	10	PSB 18 x 050
		55	11.4	100	8.8	125	11	PSB 18 x 055
		60	10.4	100	9.6	125	12	PSB 18 x 060
		65	9.6	100	10.4	125	13	PSB 18 x 065
		70	8.9	100	11.2	125	14	PSB 18 x 070
		75	8.3	100	12.0	125	15	PSB 18 x 075
		80	7.8	100	12.8	125	16	PSB 18 x 080
		90	7.0	100	14.4	125	18	PSB 18 x 090
		100	6.3	100	16.0	125	20	PSB 18 x 100
20	10	20	40.0	128	3.2	160	4	PSB 20 x 020
		25	32.0	128	4.0	160	5	PSB 20 x 025
		30	26.7	128	4.8	160	6	PSB 20 x 030
		35	22.9	128	5.6	160	7	PSB 20 x 035
		40	20.0	128	6.4	160	8	PSB 20 x 040
		45	17.8	128	7.2	160	9	PSB 20 x 045
		50	16.0	128	8.0	160	10	PSB 20 x 050
		55	14.6	128	8.8	160	11	PSB 20 x 055
		60	13.3	128	9.6	160	12	PSB 20 x 060
		65	12.3	128	10.4	160	13	PSB 20 x 065
		70	11.4	128	11.2	160	14	PSB 20 x 070
		75	10.7	128	12.0	160	15	PSB 20 x 075
		80	10.0	128	12.8	160	16	PSB 20 x 080
		90	8.9	128	14.4	160	18	PSB 20 x 090
		100	8.0	128	16.0	160	20	PSB 20 x 100
		125	6.4	128	20.0	160	25	PSB 20 x 125
		150	5.3	128	24.0	160	30	PSB 20 x 150
22	11	25	39.0	156	4.0	195	5	PSB 22 x 025
		30	32.5	156	4.8	195	6	PSB 22 x 030
		35	27.9	156	5.6	195	7	PSB 22 x 035
		40	24.4	156	6.4	195	8	PSB 22 x 040
		45	21.7	156	7.2	195	9	PSB 22 x 045
		50	19.5	156	8.0	195	10	PSB 22 x 050
		55	17.7	156	8.8	195	11	PSB 22 x 055
		60	16.2	156	9.6	195	12	PSB 22 x 060
		65	15.0	156	10.4	195	13	PSB 22 x 065
		70	13.9	156	11.2	195	14	PSB 22 x 070
		75	13.0	156	12.0	195	15	PSB 22 x 075
		80	12.2	156	12.8	195	16	PSB 22 x 080

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



High Compression Springs

Colour - Pista

PGL



Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
20	10	25	3.0	22.5	7.5	37.5	12.5	PGL 20 X 025
		32	2.3	22.2	9.6	37.0	16.0	PGL 20 X 032
		38	1.9	21.7	11.4	36.1	19.0	PGL 20 X 038
		44	1.6	21.1	13.2	35.2	22.0	PGL 20 X 044
		51	1.4	21.4	15.3	35.7	25.5	PGL 20 X 051
		64	1.2	22.1	19.2	36.8	32.0	PGL 20 X 064
		76	1.0	22.8	22.8	38.0	38.0	PGL 20 X 076
		89	0.9	22.7	26.7	37.8	44.5	PGL 20 X 089
		102	0.8	23.0	30.6	38.3	51.0	PGL 20 X 102
		115	0.7	22.4	34.5	37.4	57.5	PGL 20 X 115
		127	0.6	22.9	38.1	38.1	63.5	PGL 20 X 127
		139	0.6	22.9	41.7	38.2	69.5	PGL 20 X 139
		152	0.5	22.8	45.6	38.0	76.0	PGL 20 X 152
		305	0.3	23.8	91.5	39.7	152.5	PGL 20 X 305
25	12.5	25	5.5	41.3	7.5	68.8	12.5	PGL 25 X 025
		32	4.3	41.3	9.6	68.8	16.0	PGL 25 X 032
		38	3.7	41.6	11.4	69.4	19.0	PGL 25 X 038
		44	3.2	42.2	13.2	70.4	22.0	PGL 25 X 044
		51	2.8	42.1	15.3	70.1	25.5	PGL 25 X 051
		64	2.2	42.2	19.2	70.4	32.0	PGL 25 X 064
		76	1.9	42.2	22.8	70.3	38.0	PGL 25 X 076
		89	1.6	41.4	26.7	69.0	44.5	PGL 25 X 089
		102	1.4	41.3	30.6	68.9	51.0	PGL 25 X 102
		115	1.2	41.4	34.5	69.0	57.5	PGL 25 X 115
		127	1.1	41.1	38.1	68.6	63.5	PGL 25 X 127
		139	1.0	40.9	41.7	68.1	69.5	PGL 25 X 139
		152	0.9	41.0	45.6	68.4	76.0	PGL 25 X 152
		178	0.8	41.7	53.4	69.4	89.0	PGL 25 X 178
		203	0.7	41.4	60.9	69.0	101.5	PGL 25 X 203
		305	0.5	41.2	91.5	68.6	152.5	PGL 25 X 305
32	16	38	4.4	50.2	11.4	83.6	19.0	PGL 32 X 038
		44	3.8	50.2	13.2	83.6	22.0	PGL 32 X 044
		51	3.3	50.5	15.3	84.2	25.5	PGL 32 X 051
		64	2.6	49.9	19.2	83.2	32.0	PGL 32 X 064
		76	2.2	50.2	22.8	83.6	38.0	PGL 32 X 076
		89	1.9	49.4	26.7	82.3	44.5	PGL 32 X 089
		102	1.6	49.0	30.6	81.6	51.0	PGL 32 X 102
		115	1.5	50.0	34.5	83.4	57.5	PGL 32 X 115
		127	1.3	49.5	38.1	82.6	63.5	PGL 32 X 127
		139	1.2	49.2	41.7	82.0	69.5	PGL 32 X 139
		152	1.1	49.2	45.6	82.1	76.0	PGL 32 X 152
		178	0.9	49.1	53.4	81.9	89.0	PGL 32 X 178
		203	0.8	48.7	60.9	81.2	101.5	PGL 32 X 203
		254	0.7	49.5	76.2	82.6	127.0	PGL 32 X 254
		305	0.5	49.4	91.5	82.4	152.5	PGL 32 X 305
40	20	51	4.9	75.1	15.3	125.2	25.5	PGL 40 X 051
		64	4.0	76.8	19.2	128.0	32.0	PGL 40 X 064
		76	3.4	77.5	22.8	129.2	38.0	PGL 40 X 076
		89	2.9	77.4	26.7	129.1	44.5	PGL 40 X 089
		102	2.5	76.5	30.6	127.5	51.0	PGL 40 X 102
		115	2.3	77.6	34.5	129.4	57.5	PGL 40 X 115
		127	2.0	76.2	38.1	127.0	63.5	PGL 40 X 127

Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
40	20	139	1.8	75.5	41.7	125.8	69.5	PGL 40 X 139
		152	1.7	75.2	45.6	125.4	76.0	PGL 40 X 152
		178	1.4	74.8	53.4	124.6	89.0	PGL 40 X 178
		203	1.3	76.1	60.9	126.9	101.5	PGL 40 X 203
		254	1.0	76.2	76.2	127.0	127.0	PGL 40 X 254
		305	0.9	77.8	91.5	129.6	152.5	PGL 40 X 305
50	25	64	8.8	169.0	19.2	281.6	32.0	PGL 50 X 064
		76	7.2	164.2	22.8	273.6	38.0	PGL 50 X 076
		89	6.1	162.9	26.7	271.5	44.5	PGL 50 X 089
		102	5.3	162.2	30.6	270.0	51.0	PGL 50 X 102
		115	4.7	162.2	34.5	270.0	57.5	PGL 50 X 115
		127	4.3	163.8	38.1	273.1	63.5	PGL 50 X 127
		139	3.9	162.6	41.7	271.1	69.5	PGL 50 X 139
		152	3.5	159.6	45.6	266.0	76.0	PGL 50 X 152
		178	3.0	160.2	53.4	267.0	89.0	PGL 50 X 178
		203	2.6	158.3	60.9	263.9	101.5	PGL 50 X 203
		254	2.1	160.0	76.2	266.7	127.0	PGL 50 X 254
		305	1.8	160.1	91.5	266.9	152.5	PGL 50 X 305

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



High Compression Springs

Colour - Ivory

PSR

Do (mm)	Di (mm)	Lo (mm)	C (Kg/mm)	40% x Length Maximum Life		50 % x Length Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
14.5	9	20	1.1	9	8	11	10.0	PSR 14.5 X 020
		25	0.9	9	10	11	12.5	PSR 14.5 X 025
		30	0.7	9	12	11	15.0	PSR 14.5 X 030
		35	0.6	9	14	11	17.5	PSR 14.5 X 035
		40	0.6	9	16	11	20.0	PSR 14.5 X 040
		45	0.5	9	18	11	22.5	PSR 14.5 X 045
		50	0.4	9	20	11	25.0	PSR 14.5 X 050
		55	0.4	9	22	11	27.5	PSR 14.5 X 055
		60	0.4	9	24	11	30.0	PSR 14.5 X 060
		65	0.3	9	26	11	32.5	PSR 14.5 X 065
		70	0.3	9	28	11	35.0	PSR 14.5 X 070
		75	0.3	9	30	11	37.5	PSR 14.5 X 075
		80	0.3	9	32	11	40.0	PSR 14.5 X 080
		90	0.3	9	36	11	45.0	PSR 14.5 X 090
		100	0.2	9	40	11	50.0	PSR 14.5 X 100
		125	0.2	9	50	11	62.5	PSR 14.5 X 125
17	11	25	1.5	15	10	19	12.5	PSR 17 X 025
		30	1.3	15	12	19	15.0	PSR 17 X 030
		35	1.1	15	14	19	17.5	PSR 17 X 035
		40	0.9	15	16	19	20.0	PSR 17 X 040
		45	0.8	15	18	19	22.5	PSR 17 X 045
		50	0.8	15	20	19	25.0	PSR 17 X 050
		55	0.7	15	22	19	27.5	PSR 17 X 055
		60	0.6	15	24	19	30.0	PSR 17 X 060
		65	0.6	15	26	19	32.5	PSR 17 X 065
		70	0.5	15	28	19	35.0	PSR 17 X 070
		75	0.5	15	30	19	37.5	PSR 17 X 075
		80	0.5	15	32	19	40.0	PSR 17 X 080
		90	0.4	15	36	19	45.0	PSR 17 X 090
		100	0.4	15	40	19	50.0	PSR 17 X 100
		125	0.3	15	50	19	62.5	PSR 17 X 125
		150	0.3	15	60	19	75.0	PSR 17 X 150
21	13	30	1.4	17	12	21	15.0	PSR 21 X 030
		35	1.2	17	14	21	17.5	PSR 21 X 035
		40	1.1	17	16	21	20.0	PSR 21 X 040
		45	0.9	17	18	21	22.5	PSR 21 X 045
		50	0.8	17	20	21	25.0	PSR 21 X 050
		55	0.8	17	22	21	27.5	PSR 21 X 055
		60	0.7	17	24	21	30.0	PSR 21 X 060
		65	0.7	17	26	21	32.5	PSR 21 X 065
		70	0.6	17	28	21	35.0	PSR 21 X 070
		75	0.6	17	30	21	37.5	PSR 21 X 075
		80	0.5	17	32	21	40.0	PSR 21 X 080
		90	0.5	17	36	21	45.0	PSR 21 X 090
		100	0.4	17	40	21	50.0	PSR 21 X 100
		125	0.3	17	50	21	62.5	PSR 21 X 125
		150	0.3	17	60	21	75.0	PSR 21 X 150
26	16.5	30	2.7	33	12	41	15.0	PSR 26 X 030
		35	2.4	33	14	41	17.5	PSR 26 X 035
		40	2.1	33	16	41	20.0	PSR 26 X 040
		45	1.8	33	18	41	22.5	PSR 26 X 045
		50	1.6	33	20	41	25.0	PSR 26 X 050
		55	1.5	33	22	41	27.5	PSR 26 X 055
		60	1.4	33	24	41	30.0	PSR 26 X 060

Do (mm)	Di (mm)	Lo (mm)	C (Kg/mm)	40% x Length Maximum Life		50 % x Length Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
26	16.5	65	1.3	33	26	41	32.5	PSR 26 X 065
		70	1.2	33	28	41	35.0	PSR 26 X 070
		75	1.1	33	30	41	37.5	PSR 26 X 075
		80	1.0	33	32	41	40.0	PSR 26 X 080
		90	0.9	33	36	41	45.0	PSR 26 X 090
		100	0.8	33	40	41	50.0	PSR 26 X 100
		110	0.8	33	44	41	55.0	PSR 26 X 110
		125	0.7	33	50	41	62.5	PSR 26 X 125
		150	0.6	33	60	41	75.0	PSR 26 X 150
		175	0.5	33	70	41	87.5	PSR 26 X 175
		200	0.4	33	80	41	100.0	PSR 26 X 200
32	21	40	2.6	41	16	51	20.0	PSR 32 X 040
		45	2.3	41	18	51	22.5	PSR 32 X 045
		50	2.0	41	20	51	25.0	PSR 32 X 050
		60	1.7	41	24	51	30.0	PSR 32 X 060
		70	1.5	41	28	51	35.0	PSR 32 X 070
		80	1.3	41	32	51	40.0	PSR 32 X 080
		90	1.1	41	36	51	45.0	PSR 32 X 090
		100	1.0	41	40	51	50.0	PSR 32 X 100
		110	0.9	41	44	51	55.0	PSR 32 X 110
		125	0.8	41	50	51	62.5	PSR 32 X 125
		150	0.7	41	60	51	75.0	PSR 32 X 150
		175	0.6	41	70	51	87.5	PSR 32 X 175
39	26	200	0.5	41	80	51	100.0	PSR 32 X 200
		250	0.4	41	100	51	125.0	PSR 32 X 250
		300	0.3	41	120	51	150.0	PSR 32 X 300
46	32	40	2.8	44	16	55	20.0	PSR 39 X 040
		45	2.5	44	18	55	22.5	PSR 39 X 045
		50	2.2	44	20	55	25.0	PSR 39 X 050
		60	1.9	44	24	55	30.0	PSR 39 X 060
		70	1.6	44	28	55	35.0	PSR 39 X 070
		80	1.4	44	32	55	40.0	PSR 39 X 080
		90	1.2	44	36	55	45.0	PSR 39 X 090
		100	1.1	44	40	55	50.0	PSR 39 X 100
		110	1.0	44	44	55	55.0	PSR 39 X 110
		125	0.9	44	50	55	62.5	PSR 39 X 125
		150	0.7	44	60	55	75.0	PSR 39 X 150
		175	0.6	44	70	55	87.5	PSR 39 X 175
46	32	200	0.6	44	80	55	100.0	PSR 39 X 200
		250	0.4	44	100	55	125.0	PSR 39 X 250
		300	0.4	44	120	55	150.0	PSR 39 X 300
46	32	50	2.5	50	20	62	25.0	PSR 46 X 050
		60	2.1	50	24	62	30.0	PSR 46 X 060
		70	1.8	50	28	62	35.0	PSR 46 X 070
		80	1.6	50	32	62	40.0	PSR 46 X 080
		90	1.4	50	36	62	45.0	PSR 46 X 090
		100	1.2	50	40	62	50.0	PSR 46 X 100
		110	1.1	50	44	62	55.0	PSR 46 X 110
		125	1.0	50	50	62	62.5	PSR 46 X 125
		150	0.8	50	60	62	75.0	PSR 46 X 150
		175	0.7	50	70	62	87.5	PSR 46 X 175
		200	0.6	50	80	62	100.0	PSR 46 X 200
		250	0.5	50	100	62	125.0	PSR 46 X 250
		300	0.4	50	120	62	150.0	PSR 46 X 300

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



High Compression Springs

Colour - Violet

PTY

Do (mm)	Di (mm)	Lo (mm)	C (Kg/mm)	40% x Length Maximum Life		50 % x Length Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
14.5	8.5	20	1.9	15	8	19	10.0	PTY 14.5 X 020
		25	1.5	15	10	19	12.5	PTY 14.5 X 025
		30	1.3	15	12	19	15.0	PTY 14.5 X 030
		35	1.1	15	14	19	17.5	PTY 14.5 X 035
		40	0.9	15	16	19	20.0	PTY 14.5 X 040
		45	0.8	15	18	19	22.5	PTY 14.5 X 045
		50	0.8	15	20	19	25.0	PTY 14.5 X 050
		55	0.7	15	22	19	27.5	PTY 14.5 X 055
		60	0.6	15	24	19	30.0	PTY 14.5 X 060
		65	0.6	15	26	19	32.5	PTY 14.5 X 065
		70	0.5	15	28	19	35.0	PTY 14.5 X 070
		75	0.5	15	30	19	37.5	PTY 14.5 X 075
		80	0.5	15	32	19	40.0	PTY 14.5 X 080
		90	0.4	15	36	19	45.0	PTY 14.5 X 090
		100	0.4	15	40	19	50.0	PTY 14.5 X 100
		125	0.3	15	50	19	62.5	PTY 14.5 X 125
17	10.5	25	2.2	22	10	28	12.5	PTY 17 X 025
		30	1.9	22	12	28	15.0	PTY 17 X 030
		35	1.6	22	14	28	17.5	PTY 17 X 035
		40	1.4	22	16	28	20.0	PTY 17 X 040
		45	1.2	22	18	28	22.5	PTY 17 X 045
		50	1.1	22	20	28	25.0	PTY 17 X 050
		55	1.0	22	22	28	27.5	PTY 17 X 055
		60	0.9	22	24	28	30.0	PTY 17 X 060
		65	0.9	22	26	28	32.5	PTY 17 X 065
		70	0.8	22	28	28	35.0	PTY 17 X 070
		75	0.7	22	30	28	37.5	PTY 17 X 075
		80	0.7	22	32	28	40.0	PTY 17 X 080
		90	0.6	22	36	28	45.0	PTY 17 X 090
		100	0.6	22	40	28	50.0	PTY 17 X 100
		125	0.4	22	50	28	62.5	PTY 17 X 125
		150	0.4	22	60	28	75.0	PTY 17 X 150
21	13	30	2.4	29	12	36	15.0	PTY 21 X 030
		35	2.0	29	14	36	17.5	PTY 21 X 035
		40	1.8	29	16	36	20.0	PTY 21 X 040
		45	1.6	29	18	36	22.5	PTY 21 X 045
		50	1.4	29	20	36	25.0	PTY 21 X 050
		55	1.3	29	22	36	27.5	PTY 21 X 055
		60	1.2	29	24	36	30.0	PTY 21 X 060
		65	1.1	29	26	36	32.5	PTY 21 X 065
		70	1.0	29	28	36	35.0	PTY 21 X 070
		75	1.0	29	30	36	37.5	PTY 21 X 075
		80	0.9	29	32	36	40.0	PTY 21 X 080
		90	0.8	29	36	36	45.0	PTY 21 X 090
		100	0.7	29	40	36	50.0	PTY 21 X 100
		125	0.6	29	50	36	62.5	PTY 21 X 125
		150	0.5	29	60	36	75.0	PTY 21 X 150
26	16.5	30	3.6	42	12	53	15.0	PTY 26 X 030
		35	3.1	42	14	53	17.5	PTY 26 X 035
		40	2.7	42	16	53	20.0	PTY 26 X 040
		45	2.4	42	18	53	22.5	PTY 26 X 045
		50	2.1	42	20	53	25.0	PTY 26 X 050
		55	1.9	42	22	53	27.5	PTY 26 X 055

Do (mm)	Di (mm)	Lo (mm)	C (Kg/mm)	40% x Length Maximum Life		50 % x Length Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
26	16.5	60	1.8	42	24	53	30.0	PTY 26 X 060
		65	1.6	42	26	53	32.5	PTY 26 X 065
		70	1.5	42	28	53	35.0	PTY 26 X 070
		75	1.4	42	30	53	37.5	PTY 26 X 075
		80	1.3	42	32	53	40.0	PTY 26 X 080
		90	1.2	42	36	53	45.0	PTY 26 X 090
		100	1.1	42	40	53	50.0	PTY 26 X 100
		110	1.0	42	44	53	55.0	PTY 26 X 110
		125	0.9	42	50	53	62.5	PTY 26 X 125
		150	0.7	42	60	53	75.0	PTY 26 X 150
		175	0.6	42	70	53	87.5	PTY 26 X 175
		200	0.5	42	80	53	100.0	PTY 26 X 200
32	21	40	3.6	57	16	71	20.0	PTY 32 X 040
		45	3.2	57	18	71	22.5	PTY 32 X 045
		50	2.8	57	20	71	25.0	PTY 32 X 050
		60	2.4	57	24	71	30.0	PTY 32 X 060
		70	2.0	57	28	71	35.0	PTY 32 X 070
		80	1.8	57	32	71	40.0	PTY 32 X 080
		90	1.6	57	36	71	45.0	PTY 32 X 090
		100	1.4	57	40	71	50.0	PTY 32 X 100
		110	1.3	57	44	71	55.0	PTY 32 X 110
		125	1.1	57	50	71	62.5	PTY 32 X 125
39	26	150	1.0	57	60	71	75.0	PTY 32 X 150
		175	0.8	57	70	71	87.5	PTY 32 X 175
		200	0.7	57	80	71	100.0	PTY 32 X 200
		250	0.6	57	100	71	125.0	PTY 32 X 250
		300	0.5	57	120	71	150.0	PTY 32 X 300
46	32	40	4.7	74	16	93	20.0	PTY 39 X 040
		45	4.2	74	18	93	22.5	PTY 39 X 045
		50	3.7	74	20	93	25.0	PTY 39 X 050
		60	3.1	74	24	93	30.0	PTY 39 X 060
		70	2.7	74	28	93	35.0	PTY 39 X 070
		80	2.3	74	32	93	40.0	PTY 39 X 080
		90	2.1	74	36	93	45.0	PTY 39 X 090
		100	1.9	74	40	93	50.0	PTY 39 X 100
		110	1.7	74	44	93	55.0	PTY 39 X 110
		125	1.5	74	50	93	62.5	PTY 39 X 125
		150	1.2	74	60	93	75.0	PTY 39 X 150
		175	1.1	74	70	93	87.5	PTY 39 X 175
		200	0.9	74	80	93	100.0	PTY 39 X 200
		250	0.8	74	100	93	125.0	PTY 39 X 250
		300	0.6	74	120	93	150.0	PTY 39 X 300
46	32	50	5.0	99	20	124	25.0	PTY 46 X 050
		60	4.2	99	24	124	30.0	PTY 46 X 060
		70	3.6	99	28	124	35.0	PTY 46 X 070
		80	3.1	99	32	124	40.0	PTY 46 X 080
		90	2.8	99	36	124	45.0	PTY 46 X 090
		100	2.5	99	40	124	50.0	PTY 46 X 100
		110	2.3	99	44	124	55.0	PTY 46 X 110
		125	2.0	99	50	124	62.5	PTY 46 X 125
		150	1.7	99	60	124	75.0	PTY 46 X 150
		175	1.4	99	70	124	87.5	PTY 46 X 175
		200	1.2	99	80	124	100.0	PTY 46 X 200
		250	1.0	99	100	124	125.0	PTY 46 X 250
		300	0.8	99	120	124	150.0	PTY 46 X 300

Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)



Ultra Load Springs

Colour - Silver

PUL

Dh (mm)	Dd (mm)	Lo (mm)	C (Kg/mm)	Maximum Life		Average Life		Code
				Pm (Kg)	Lm (mm)	Pa (Kg)	La (mm)	
25	12.5	64	65.7	420	6.4	630	9.6	PUL 25 X 064
		76	56.7	431	7.6	646	11.4	PUL 25 X 076
		89	47.1	419	8.9	629	13.4	PUL 25 X 089
		102	39.8	406	10.2	608	15.3	PUL 25 X 102
		115	36.7	422	11.5	633	17.3	PUL 25 X 115
		127	33.3	423	12.7	633	19.1	PUL 25 X 127
		152	26.0	395	15.2	693	22.8	PUL 25 X 152
		178	23.5	418	17.8	626	26.7	PUL 25 X 178
		203	20.6	418	20.3	627	30.5	PUL 25 X 203
		305	13.9	424	30.5	634	45.8	PUL 25 X 305
32	16	64	109.9	703	6.4	1054	9.6	PUL 32 X 064
		76	89.1	677	7.6	1016	11.4	PUL 32 X 076
		89	73.5	654	8.9	982	13.4	PUL 32 X 089
		102	63.2	644	10.2	968	15.3	PUL 32 X 102
		115	57.1	656	11.5	985	17.3	PUL 32 X 115
		127	50.6	642	12.7	964	19.1	PUL 32 X 127
		152	41.6	632	15.2	949	22.8	PUL 32 X 152
		178	36.0	640	17.8	961	26.7	PUL 32 X 178
		203	31.0	629	20.3	944	30.5	PUL 32 X 203
		254	24.8	629	25.4	944	38.1	PUL 32 X 254
40	20	89	89.8	799	8.9	1198	13.4	PUL 40 X 089
		102	77.7	793	10.2	1189	15.3	PUL 40 X 102
		115	69.3	797	11.5	1194	17.3	PUL 40 X 115
		127	63.4	805	12.7	1208	19.1	PUL 40 X 127
		152	51.9	788	15.2	1183	22.8	PUL 40 X 152
		178	43.8	780	17.8	1168	26.7	PUL 40 X 178
		203	38.1	773	20.3	1161	30.5	PUL 40 X 203
		254	30.2	767	25.4	1150	38.1	PUL 40 X 254
		305	25.1	766	30.5	1148	45.8	PUL 40 X 305
50	25	89	143.8	1280	8.9	1920	13.4	PUL 50 X 089
		102	123.9	1264	10.2	1896	15.3	PUL 50 X 102
		115	109.8	1263	11.5	1893	17.3	PUL 50 X 115
		127	98.7	1253	12.7	1880	19.1	PUL 50 X 127
		152	82.2	1249	15.2	1874	22.8	PUL 50 X 152
		178	71.2	1267	17.8	1900	26.7	PUL 50 X 178
		203	62.4	1267	20.3	1900	30.5	PUL 50 X 203
		254	48.1	1222	25.4	1834	38.1	PUL 50 X 254
		305	39.6	1208	30.5	1810	45.8	PUL 50 X 305



Note : Spring beyond standard OD, ID & Length can also be manufactured (Refer Page No. 28-29)