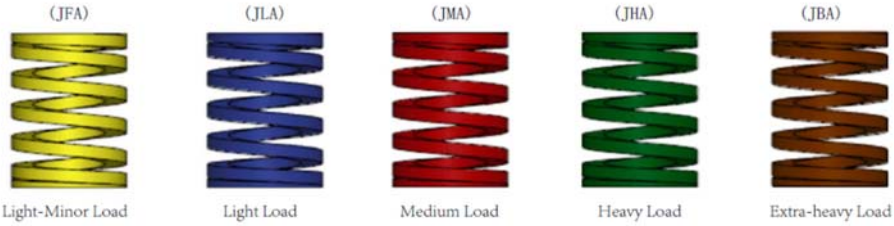
IJSPRING



E-mail:tech@ijspring.com

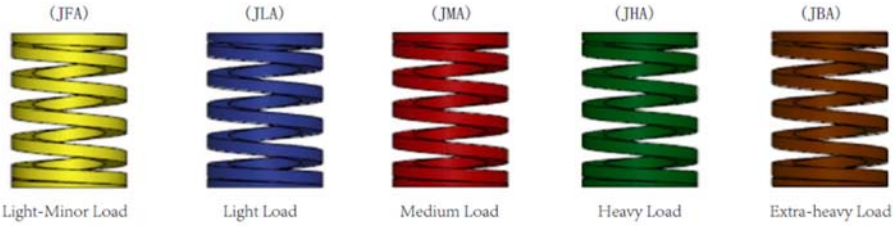
- Compression spring
- Tension spring
- Torsion spring
- Die spring
- Disc spring
- Wave spring
- High-temperature Alloy

Standard Component Selection
Custom Non-Standard Fabrication



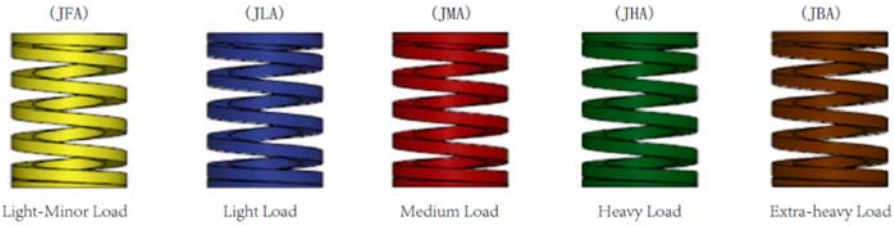
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 8×4×10×15.3	8	4	10	15.3	5	78.4	4.5	68.6	4	58.8	Yellow
JFA 8×4×15×10.2	8	4	15	10.19	7.5	78.4	6.8	68.6	6	58.8	Yellow
JFA 8×4×20×7.6	8	4	20	7.64	10	78.4	9	68.6	8	58.8	Yellow
JFA 8×4×25×6.1	8	4	25	6.08	12.5	78.4	11.2	68.6	10	58.8	Yellow
JFA 8×4×30×5.1	8	4	30	5.1	15	78.4	13.5	68.6	12	58.8	Yellow
JFA 8×4×35×4.3	8	4	35	4.31	17.5	78.4	15.7	68.6	14	58.8	Yellow
JFA 8×4×40×3.8	8	4	40	3.82	20	78.4	18	68.6	16	58.8	Yellow
JFA 8×4×45×3.4	8	4	45	3.43	22.5	78.4	20.2	68.6	18	58.8	Yellow
JFA 8×4×50×3	8	4	50	3.04	25	78.4	22.5	68.6	20	58.8	Yellow
JFA 8×4×55×2.7	8	4	55	2.74	27.5	78.4	24.7	68.6	22	58.8	Yellow
JFA 8×4×60×2.6	8	4	60	2.55	30	78.4	27	68.6	24	58.8	Yellow
JFA 8×4×65×2.4	8	4	65	2.35	32.5	78.4	29.2	68.6	26	58.8	Yellow
JFA 8×4×70×2.2	8	4	70	2.16	35	78.4	31.5	68.6	28	58.8	Yellow
JFA 8×4×75×2.1	8	4	75	2.06	37.5	78.4	33.7	68.6	30	58.8	Yellow
JFA 8×4×80×2	8	4	80	1.96	40	78.4	36	68.6	32	58.8	Yellow
JFA 8×4×90×1.7	8	4	90	1.67	45	78.4	40.5	68.6	36	58.8	Yellow
JFA 10×5×10×19.6	10	5	10	19.6	5	98	4.5	88.2	4	78.4	Yellow
JFA 10×5×15×12.9	10	5	15	12.94	7.5	98	6.8	88.2	6	78.4	Yellow
JFA 10×5×20×9.8	10	5	20	9.8	10	98	9	88.2	8	78.4	Yellow
JFA 10×5×25×7.8	10	5	25	7.84	12.5	98	11.2	88.2	10	78.4	Yellow
JFA 10×5×30×6.6	10	5	30	6.57	15	98	13.5	88.2	12	78.4	Yellow
JFA 10×5×35×5.6	10	5	35	5.57	17.5	98	15.7	88.2	14	78.4	Yellow
JFA 10×5×40×4.9	10	5	40	4.9	20	98	18	88.2	16	78.4	Yellow
JFA 10×5×45×4.3	10	5	45	4.31	22.5	98	20.2	88.2	18	78.4	Yellow
JFA 10×5×50×3.9	10	5	50	3.92	25	98	22.5	88.2	20	78.4	Yellow
JFA 10×5×55×3.5	10	5	55	3.53	27.5	98	24.7	88.2	22	78.4	Yellow
JFA 10×5×60×3.2	10	5	60	3.23	30	98	27	88.2	24	78.4	Yellow
JFA 10×5×65×3	10	5	65	3.04	32.5	98	29.2	88.2	26	78.4	Yellow
JFA 10×5×70×2.8	10	5	70	2.84	35	98	31.5	88.2	28	78.4	Yellow
JFA 10×5×75×2.7	10	5	75	2.65	37.5	98	33.7	88.2	30	78.4	Yellow
JFA 10×5×80×2.5	10	5	80	2.45	40	98	36	88.2	32	78.4	Yellow
JFA 10×5×90×2.2	10	5	90	2.16	45	98	40.5	88.2	36	78.4	Yellow
JFA 10×5×100×2	10	5	100	1.96	50	98	45	88.2	40	78.4	Yellow
JFA 12×6×20×13.7	12	6	20	13.72	10	137.2	9	122.5	8	107.8	Yellow
JFA 12×6×25×11	12	6	25	10.98	12.5	137.2	11.2	122.5	10	107.8	Yellow
JFA 12×6×30×9.1	12	6	30	9.11	15	137.2	13.5	122.5	12	107.8	Yellow
JFA 12×6×35×7.8	12	6	35	7.84	17.5	137.2	15.7	122.5	14	107.8	Yellow
JFA 12×6×40×6.9	12	6	40	6.86	20	137.2	18	122.5	16	107.8	Yellow

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 12×6×45×6.1	12	6	45	6.08	22.5	137.2	20.2	122.5	18	107.8	Yellow
JFA 12×6×50×5.5	12	6	50	5.49	25	137.2	22.5	122.5	20	107.8	Yellow
JFA 12×6×55×5	12	6	55	5	27.5	137.2	24.7	122.5	22	107.8	Yellow
JFA 12×6×60×4.6	12	6	60	4.61	30	137.2	27	122.5	24	107.8	Yellow
JFA 12×6×65×4.2	12	6	65	4.21	32.5	137.2	29.2	122.5	26	107.8	Yellow
JFA 12×6×70×3.9	12	6	70	3.92	35	137.2	31.5	122.5	28	107.8	Yellow
JFA 12×6×75×3.6	12	6	75	3.63	37.5	137.2	33.7	122.5	30	107.8	Yellow
JFA 12×6×80×3.4	12	6	80	3.43	40	137.2	36	122.5	32	107.8	Yellow
JFA 12×6×90×3	12	6	90	3.04	45	137.2	40.5	122.5	36	107.8	Yellow
JFA 12×6×100×2.7	12	6	100	2.74	50	137.2	45	122.5	40	107.8	Yellow
JFA 14×7×20×17.5	14	7	20	17.45	10	176.4	9	156.8	8	142.1	Yellow
JFA 14×7×25×14.1	14	7	25	14.11	12.5	176.4	11.2	156.8	10	142.1	Yellow
JFA 14×7×30×11.8	14	7	30	11.76	15	176.4	13.5	156.8	12	142.1	Yellow
JFA 14×7×35×10.1	14	7	35	10.09	17.5	176.4	15.7	156.8	14	142.1	Yellow
JFA 14×7×40×8.8	14	7	40	8.82	20	176.4	18	156.8	16	142.1	Yellow
JFA 14×7×45×7.8	14	7	45	7.84	22.5	176.4	20.2	156.8	18	142.1	Yellow
JFA 14×7×50×7.1	14	7	50	7.06	25	176.4	22.5	156.8	20	142.1	Yellow
JFA 14×7×55×6.4	14	7	55	6.37	27.5	176.4	24.7	156.8	22	142.1	Yellow
JFA 14×7×60×5.9	14	7	60	5.88	30	176.4	27	156.8	24	142.1	Yellow
JFA 14×7×65×5.4	14	7	65	5.39	32.5	176.4	29.2	156.8	26	142.1	Yellow
JFA 14×7×70×5	14	7	70	5	35	176.4	31.5	156.8	28	142.1	Yellow
JFA 14×7×75×4.7	14	7	75	4.7	37.5	176.4	33.7	156.8	30	142.1	Yellow
JFA 14×7×80×4.4	14	7	80	4.41	40	176.4	36	156.8	32	142.1	Yellow
JFA 14×7×90×3.9	14	7	90	3.92	45	176.4	40.5	156.8	36	142.1	Yellow
JFA 14×7×100×3.5	14	7	100	3.53	50	176.4	45	156.8	40	142.1	Yellow
JFA 14×7×125×2.8	14	7	125	2.84	62.5	176.4	56.2	156.8	50	142.1	Yellow
JFA 16×8×20×20.7	16	8	20	20.68	10	205.8	9	186.2	8	166.6	Yellow
JFA 16×8×25×16.5	16	8	25	16.46	12.5	205.8	11.2	186.2	10	166.6	Yellow
JFA 16×8×30×13.7	16	8	30	13.72	15	205.8	13.5	186.2	12	166.6	Yellow
JFA 16×8×35×11.8	16	8	35	11.76	17.5	205.8	15.7	186.2	14	166.6	Yellow
JFA 16×8×40×10.3	16	8	40	10.29	20	205.8	18	186.2	16	166.6	Yellow
JFA 16×8×45×9.2	16	8	45	9.21	22.5	205.8	20.2	186.2	18	166.6	Yellow
JFA 16×8×50×8.2	16	8	50	8.23	25	205.8	22.5	186.2	20	166.6	Yellow
JFA 16×8×55×7.6	16	8	55	7.55	27.5	205.8	24.7	186.2	22	166.6	Yellow
JFA 16×8×60×6.9	16	8	60	6.86	30	205.8	27	186.2	24	166.6	Yellow
JFA 16×8×65×6.4	16	8	65	6.37	32.5	205.8	29.2	186.2	26	166.6	Yellow
JFA 16×8×70×5.9	16	8	70	5.88	35	205.8	31.5	186.2	28	166.6	Yellow
JFA 16×8×75×5.5	16	8	75	5.49	37.5	205.8	33.7	186.2	30	166.6	Yellow

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 16×8×80×5.2	16	8	80	5.19	40	205.8	36	186.2	32	166.6	Yellow
JFA 16×8×90×4.6	16	8	90	4.61	45	205.8	40.5	186.2	36	166.6	Yellow
JFA 16×8×100×4.1	16	8	100	4.12	50	205.8	45	186.2	40	166.6	Yellow
JFA 16×8×125×3.3	16	8	125	3.33	62.5	205.8	56.2	186.2	50	166.6	Yellow
JFA 18×9×20×25.1	18	9	20	25.09	10	254.8	9	225.4	8	205.8	Yellow
JFA 18×9×25×20.4	18	9	25	20.38	12.5	254.8	11.2	225.4	10	205.8	Yellow
JFA 18×9×30×17.1	18	9	30	17.05	15	254.8	13.5	225.4	12	205.8	Yellow
JFA 18×9×35×14.6	18	9	35	14.6	17.5	254.8	15.7	225.4	14	205.8	Yellow
JFA 18×9×40×12.7	18	9	40	12.74	20	254.8	18	225.4	16	205.8	Yellow
JFA 18×9×45×11.4	18	9	45	11.37	22.5	254.8	20.2	225.4	18	205.8	Yellow
JFA 18×9×50×10.2	18	9	50	10.19	25	254.8	22.5	225.4	20	205.8	Yellow
JFA 18×9×55×9.3	18	9	55	9.31	27.5	254.8	24.7	225.4	22	205.8	Yellow
JFA 18×9×60×8.5	18	9	60	8.53	30	254.8	27	225.4	24	205.8	Yellow
JFA 18×9×65×7.8	18	9	65	7.84	32.5	254.8	29.2	225.4	26	205.8	Yellow
JFA 18×9×70×7.3	18	9	70	7.25	35	254.8	31.5	225.4	28	205.8	Yellow
JFA 18×9×75×6.9	18	9	75	6.86	37.5	254.8	33.7	225.4	30	205.8	Yellow
JFA 18×9×80×6.4	18	9	80	6.37	40	254.8	36	225.4	32	205.8	Yellow
JFA 18×9×90×5.7	18	9	90	5.68	45	254.8	40.5	225.4	36	205.8	Yellow
JFA 18×9×100×5.1	18	9	100	5.1	50	254.8	45	225.4	40	205.8	Yellow
JFA 18×9×125×4.1	18	9	125	4.12	62.5	254.8	56.2	225.4	50	205.8	Yellow
JFA 20×11×20×31.6	20	11	20	31.56	10	313.6	9	284.2	8	254.8	Yellow
JFA 20×11×25×25.1	20	11	25	25.09	12.5	313.6	11.2	284.2	10	254.8	Yellow
JFA 20×11×30×20.9	20	11	30	20.87	15	313.6	13.5	284.2	12	254.8	Yellow
JFA 20×11×35×17.9	20	11	35	17.93	17.5	313.6	15.7	284.2	14	254.8	Yellow
JFA 20×11×40×15.7	20	11	40	15.68	20	313.6	18	284.2	16	254.8	Yellow
JFA 20×11×45×13.9	20	11	45	13.92	22.5	313.6	20.2	284.2	18	254.8	Yellow
JFA 20×11×50×12.5	20	11	50	12.54	25	313.6	22.5	284.2	20	254.8	Yellow
JFA 20×11×55×11.4	20	11	55	11.37	27.5	313.6	24.7	284.2	22	254.8	Yellow
JFA 20×11×60×10.5	20	11	60	10.49	30	313.6	27	284.2	24	254.8	Yellow
JFA 20×11×65×9.6	20	11	65	9.6	32.5	313.6	29.2	284.2	26	254.8	Yellow
JFA 20×11×70×8.9	20	11	70	8.92	35	313.6	31.5	284.2	28	254.8	Yellow
JFA 20×11×75×8.3	20	11	75	8.33	37.5	313.6	33.7	284.2	30	254.8	Yellow
JFA 20×11×80×7.8	20	11	80	7.84	40	313.6	36	284.2	32	254.8	Yellow
JFA 20×11×90×7	20	11	90	6.96	45	313.6	40.5	284.2	36	254.8	Yellow
JFA 20×11×100×6.3	20	11	100	6.27	50	313.6	45	284.2	40	254.8	Yellow
JFA 20×11×125×5	20	11	125	5	62.5	313.6	56.2	284.2	50	254.8	Yellow
JFA 20×11×150×4.2	20	11	150	4.21	75	313.6	67.5	284.2	60	254.8	Yellow
JFA 20×11×175×3.6	20	11	175	3.63	87.5	313.6	78.7	284.2	70	254.8	Yellow

Outer Diameter < Hole
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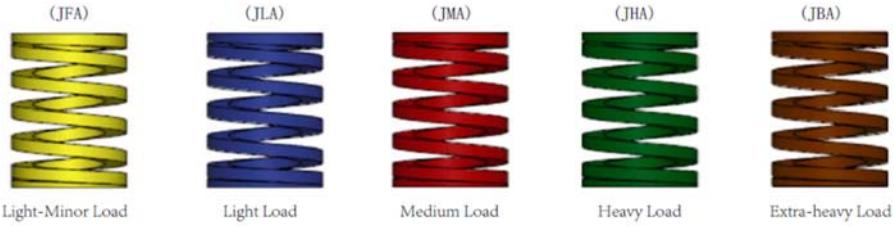
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 22×11×25×31.4	22	11	25	31.36	12.5	392	11.2	352.8	10	313.6	Yellow
JFA 22×11×30×26.2	22	11	30	26.17	15	392	13.5	352.8	12	313.6	Yellow
JFA 22×11×35×22.4	22	11	35	22.44	17.5	392	15.7	352.8	14	313.6	Yellow
JFA 22×11×40×19.6	22	11	40	19.6	20	392	18	352.8	16	313.6	Yellow
JFA 22×11×45×17.4	22	11	45	17.44	22.5	392	20.2	352.8	18	313.6	Yellow
JFA 22×11×50×15.7	22	11	50	15.68	25	392	22.5	352.8	20	313.6	Yellow
JFA 22×11×55×14.3	22	11	55	14.31	27.5	392	24.7	352.8	22	313.6	Yellow
JFA 22×11×60×13	22	11	60	13.03	30	392	27	352.8	24	313.6	Yellow
JFA 22×11×65×12.1	22	11	65	12.05	32.5	392	29.2	352.8	26	313.6	Yellow
JFA 22×11×70×11.2	22	11	70	11.17	35	392	31.5	352.8	28	313.6	Yellow
JFA 22×11×75×10.5	22	11	75	10.49	37.5	392	33.7	352.8	30	313.6	Yellow
JFA 22×11×80×9.8	22	11	80	9.8	40	392	36	352.8	32	313.6	Yellow
JFA 22×11×90×8.7	22	11	90	8.72	45	392	40.5	352.8	36	313.6	Yellow
JFA 22×11×100×7.8	22	11	100	7.84	50	392	45	352.8	40	313.6	Yellow
JFA 22×11×125×6.3	22	11	125	6.27	62.5	392	56.2	352.8	50	313.6	Yellow
JFA 22×11×150×5.2	22	11	150	5.19	75	392	67.5	352.8	60	313.6	Yellow
JFA 22×11×175×4.5	22	11	175	4.51	87.5	392	78.7	352.8	70	313.6	Yellow
JFA 25×13.5×25×39.2	25	13.5	25	39.2	12.5	490	11.2	441	10	392	Yellow
JFA 25×13.5×30×32.6	25	13.5	30	32.63	15	490	13.5	441	12	392	Yellow
JFA 25×13.5×35×27.9	25	13.5	35	27.93	17.5	490	15.7	441	14	392	Yellow
JFA 25×13.5×40×24.5	25	13.5	40	24.5	20	490	18	441	16	392	Yellow
JFA 25×13.5×45×21.8	25	13.5	45	21.76	22.5	490	20.2	441	18	392	Yellow
JFA 25×13.5×50×21.6	25	13.5	50	21.56	25	490	22.5	441	20	392	Yellow
JFA 25×13.5×55×17.8	25	13.5	55	17.84	27.5	490	24.7	441	22	392	Yellow
JFA 25×13.5×60×16.4	25	13.5	60	16.37	30	490	27	441	24	392	Yellow
JFA 25×13.5×65×15.1	25	13.5	65	15.09	32.5	490	29.2	441	26	392	Yellow
JFA 25×13.5×70×14	25	13.5	70	14.01	35	490	31.5	441	28	392	Yellow
JFA 25×13.5×75×13	25	13.5	75	13.03	37.5	490	33.7	441	30	392	Yellow
JFA 25×13.5×80×12.3	25	13.5	80	12.25	40	490	36	441	32	392	Yellow
JFA 25×13.5×90×10.9	25	13.5	90	10.88	45	490	40.5	441	36	392	Yellow
JFA 25×13.5×100×9.8	25	13.5	100	9.8	50	490	45	441	40	392	Yellow
JFA 25×13.5×125×7.8	25	13.5	125	7.84	62.5	490	56.2	441	50	392	Yellow
JFA 25×13.5×150×6.6	25	13.5	150	6.57	75	490	67.5	441	60	392	Yellow
JFA 25×13.5×175×5.6	25	13.5	175	5.59	87.5	490	78.7	441	70	392	Yellow
JFA 25×13.5×200×4.9	25	13.5	200	4.9	100	490	90	441	80	392	Yellow
JFA 27×13.5×25×47	27	13.5	25	47.04	12.5	588	11.2	529.2	10	470.4	Yellow
JFA 27×13.5×30×39.2	27	13.5	30	39.2	15	588	13.5	529.2	12	470.4	Yellow
JFA 27×13.5×35×33.6	27	13.5	35	33.61	17.5	588	15.7	529.2	14	470.4	Yellow

Outer Diameter < Hole
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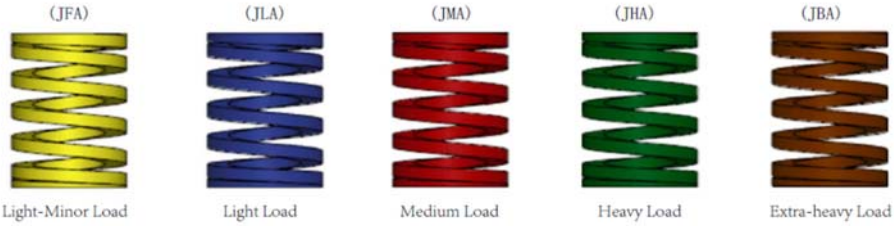

SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 27×13.5×40×29.4	27	13.5	40	29.4	20	588	18	529.2	16	470.4	Yellow
JFA 27×13.5×45×26.2	27	13.5	45	26.17	22.5	588	20.2	529.2	18	470.4	Yellow
JFA 27×13.5×50×23.5	27	13.5	50	23.52	25	588	22.5	529.2	20	470.4	Yellow
JFA 27×13.5×55×21.4	27	13.5	55	21.36	27.5	588	24.7	529.2	22	470.4	Yellow
JFA 27×13.5×60×19.6	27	13.5	60	19.6	30	588	27	529.2	24	470.4	Yellow
JFA 27×13.5×65×18.1	27	13.5	65	18.13	32.5	588	29.2	529.2	26	470.4	Yellow
JFA 27×13.5×70×16.8	27	13.5	70	16.76	35	588	31.5	529.2	28	470.4	Yellow
JFA 27×13.5×75×15.7	27	13.5	75	15.68	37.5	588	33.7	529.2	30	470.4	Yellow
JFA 27×13.5×80×14.7	27	13.5	80	14.7	40	588	36	529.2	32	470.4	Yellow
JFA 27×13.5×90×13	27	13.5	90	13.03	45	588	40.5	529.2	36	470.4	Yellow
JFA 27×13.5×100×11.	27	13.5	100	11.76	50	588	45	529.2	40	470.4	Yellow
JFA 27×13.5×125×9.4	27	13.5	125	9.41	62.5	588	56.2	529.2	50	470.4	Yellow
JFA 27×13.5×150×7.8	27	13.5	150	7.84	75	588	67.5	529.2	60	470.4	Yellow
JFA 27×13.5×175×6.8	27	13.5	175	6.76	87.5	588	78.7	529.2	70	470.4	Yellow
JFA 27×13.5×200×5.9	27	13.5	200	5.88	100	588	90	529.2	80	470.4	Yellow
JFA 30×16×25×56.8	30	16	25	56.84	12.5	705.6	11.2	637	10	568.4	Yellow
JFA 30×16×30×47.3	30	16	30	47.33	15	705.6	13.5	637	12	568.4	Yellow
JFA 30×16×35×40.5	30	16	35	40.47	17.5	705.6	15.7	637	14	568.4	Yellow
JFA 30×16×40×35.3	30	16	40	35.28	20	705.6	18	637	16	568.4	Yellow
JFA 30×16×45×31.5	30	16	45	31.46	22.5	705.6	20.2	637	18	568.4	Yellow
JFA 30×16×50×28.2	30	16	50	28.22	25	705.6	22.5	637	20	568.4	Yellow
JFA 30×16×55×25.8	30	16	55	25.77	27.5	705.6	24.7	637	22	568.4	Yellow
JFA 30×16×60×23.5	30	16	60	23.52	30	705.6	27	637	24	568.4	Yellow
JFA 30×16×65×21.8	30	16	65	21.76	32.5	705.6	29.2	637	26	568.4	Yellow
JFA 30×16×70×20.1	30	16	70	20.09	35	705.6	31.5	637	28	568.4	Yellow
JFA 30×16×75×18.9	30	16	75	18.91	37.5	705.6	33.7	637	30	568.4	Yellow
JFA 30×16×80×17.6	30	16	80	17.64	40	705.6	36	637	32	568.4	Yellow
JFA 30×16×90×15.7	30	16	90	15.68	45	705.6	40.5	637	36	568.4	Yellow
JFA 30×16×100×14.1	30	16	100	14.11	50	705.6	45	637	40	568.4	Yellow
JFA 30×16×125×11.3	30	16	125	11.27	62.5	705.6	56.2	637	50	568.4	Yellow
JFA 30×16×150×9.4	30	16	150	9.41	75	705.6	67.5	637	60	568.4	Yellow
JFA 30×16×175×8	30	16	175	8.04	87.5	705.6	78.7	637	70	568.4	Yellow
JFA 30×16×200×7.1	30	16	200	7.06	100	705.6	90	637	80	568.4	Yellow
JFA 35×19×35×54.9	35	19	35	54.88	17.5	960.4	15.7	862.4	14	764.4	Yellow
JFA 35×19×40×48	35	19	40	48.02	20	960.4	18	862.4	16	764.4	Yellow
JFA 35×19×45×42.7	35	19	45	42.73	22.5	960.4	20.2	862.4	18	764.4	Yellow
JFA 35×19×50×38.4	35	19	50	38.42	25	960.4	22.5	862.4	20	764.4	Yellow
JFA 35×19×55×34.9	35	19	55	34.89	27.5	960.4	24.7	862.4	22	764.4	Yellow

Outer Diameter < Hole
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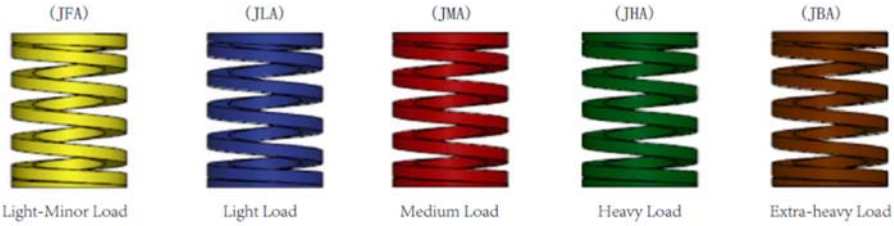
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 35×19×60×32	35	19	60	31.95	30	960.4	27	862.4	24	764.4	Yellow
JFA 35×19×65×29.6	35	19	65	29.6	32.5	960.4	29.2	862.4	26	764.4	Yellow
JFA 35×19×70×27.4	35	19	70	27.44	35	960.4	31.5	862.4	28	764.4	Yellow
JFA 35×19×75×25.6	35	19	75	25.58	37.5	960.4	33.7	862.4	30	764.4	Yellow
JFA 35×19×80×24	35	19	80	24.01	40	960.4	36	862.4	32	764.4	Yellow
JFA 35×19×90×21.3	35	19	90	21.27	45	960.4	40.5	862.4	36	764.4	Yellow
JFA 35×19×100×19.2	35	19	100	19.21	50	960.4	45	862.4	40	764.4	Yellow
JFA 35×19×125×15.4	35	19	125	15.39	62.5	960.4	56.2	862.4	50	764.4	Yellow
JFA 35×19×150×12.7	35	19	150	12.74	75	960.4	67.5	862.4	60	764.4	Yellow
JFA 35×19×175×11	35	19	175	10.98	87.5	960.4	78.7	862.4	70	764.4	Yellow
JFA 35×19×200×9.6	35	19	200	9.6	100	960.4	90	862.4	80	764.4	Yellow
JFA 40×22×40×62.5	40	22	40	62.52	20	1254.4	18	1127	16	999.6	Yellow
JFA 40×22×45×55.6	40	22	45	55.57	22.5	1254.4	20.2	1127	18	999.6	Yellow
JFA 40×22×50×50.2	40	22	50	50.18	25	1254.4	22.5	1127	20	999.6	Yellow
JFA 40×22×55×45.5	40	22	55	45.47	27.5	1254.4	24.7	1127	22	999.6	Yellow
JFA 40×22×60×41.8	40	22	60	41.75	30	1254.4	27	1127	24	999.6	Yellow
JFA 40×22×65×38.5	40	22	65	38.51	32.5	1254.4	29.2	1127	26	999.6	Yellow
JFA 40×22×70×35.8	40	22	70	35.77	35	1254.4	31.5	1127	28	999.6	Yellow
JFA 40×22×75×33.3	40	22	75	33.32	37.5	1254.4	33.7	1127	30	999.6	Yellow
JFA 40×22×80×31.4	40	22	80	31.36	40	1254.4	36	1127	32	999.6	Yellow
JFA 40×22×90×27.8	40	22	90	27.83	45	1254.4	40.5	1127	36	999.6	Yellow
JFA 40×22×100×25.1	40	22	100	25.09	50	1254.4	45	1127	40	999.6	Yellow
JFA 40×22×125×20	40	22	125	19.99	62.5	1254.4	56.2	1127	50	999.6	Yellow
JFA 40×22×150×16.7	40	22	150	16.66	75	1254.4	67.5	1127	60	999.6	Yellow
JFA 40×22×175×14.3	40	22	175	14.31	87.5	1254.4	78.7	1127	70	999.6	Yellow
JFA 40×22×200×12.5	40	22	200	12.54	100	1254.4	90	1127	80	999.6	Yellow
JFA 40×22×225×11.1	40	22	225	11.07	112.5	1254.4	101.2	1127	90	999.6	Yellow
JFA 40×22×250×10	40	22	250	10	125	1254.4	112.5	1127	100	999.6	Yellow
JFA 40×22×275×9.1	40	22	275	9.11	137.5	1254.4	123.7	1127	110	999.6	Yellow
JFA 40×22×300×8.3	40	22	300	8.33	150	1254.4	135	1127	120	999.6	Yellow
JFA 50×27.5×50×78.4	50	27.5	50	78.4	25	1960	22.5	1764	20	1568	Yellow
JFA 50×27.5×55×71.3	50	27.5	55	71.25	27.5	1960	24.7	1764	22	1568	Yellow
JFA 50×27.5×60×65.3	50	27.5	60	65.27	30	1960	27	1764	24	1568	Yellow
JFA 50×27.5×65×60.3	50	27.5	65	60.27	32.5	1960	29.2	1764	26	1568	Yellow
JFA 50×27.5×70×56	50	27.5	70	55.96	35	1960	31.5	1764	28	1568	Yellow
JFA 50×27.5×75×52.2	50	27.5	75	52.23	37.5	1960	33.7	1764	30	1568	Yellow
JFA 50×27.5×80×49	50	27.5	80	49	40	1960	36	1764	32	1568	Yellow
JFA 50×27.5×90×43.5	50	27.5	90	43.51	45	1960	40.5	1764	36	1568	Yellow

Outer Diameter < Hole
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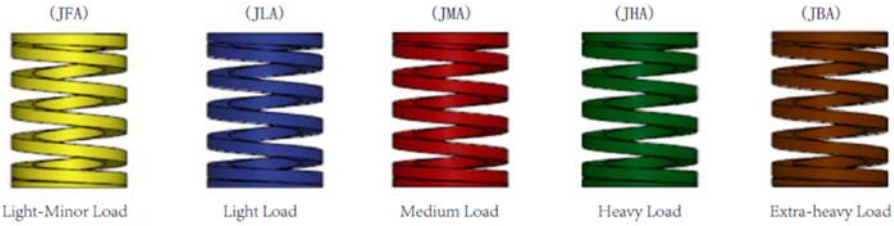
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 50×27.5×100×39.	50	27.5	100	39.2	50	1960	45	1764	40	1568	Yellow
JFA 50×27.5×125×31.	50	27.5	125	31.36	62.5	1960	56.2	1764	50	1568	Yellow
JFA 50×27.5×150×26.	50	27.5	150	26.07	75	1960	67.5	1764	60	1568	Yellow
JFA 50×27.5×175×22.	50	27.5	175	22.34	87.5	1960	78.7	1764	70	1568	Yellow
JFA 50×27.5×200×19.	50	27.5	200	19.6	100	1960	90	1764	80	1568	Yellow
JFA 50×27.5×225×17.	50	27.5	225	17.44	112.5	1960	101.2	1764	90	1568	Yellow
JFA 50×27.5×250×15.	50	27.5	250	15.68	125	1960	112.5	1764	100	1568	Yellow
JFA 50×27.5×275×14.	50	27.5	275	14.21	137.5	1960	123.7	1764	110	1568	Yellow
JFA 50×27.5×300×13	50	27.5	300	13.03	150	1960	135	1764	120	1568	Yellow
JFA 50×27.5×350×11.	50	27.5	350	11.17	175	1960	157.5	1764	140	1568	Yellow
JFA 50×27.5×400×9.8	50	27.5	400	9.8	200	1960	180	1764	160	1568	Yellow
JFA 50×27.5×450×8.7	50	27.5	450	8.72	225	1960	202.5	1764	180	1568	Yellow
JFA 50×27.5×500×7.8	50	27.5	500	7.84	250	1960	225	1764	200	1568	Yellow
JFA 60×33×60×94	60	33	60	93.98	30	2822.4	27	2538.2	24	2254	Yellow
JFA 60×33×70×80.6	60	33	70	80.56	35	2822.4	31.5	2538.2	28	2254	Yellow
JFA 60×33×80×70.5	60	33	80	70.46	40	2822.4	36	2538.2	32	2254	Yellow
JFA 60×33×90×62.7	60	33	90	62.72	45	2822.4	40.5	2538.2	36	2254	Yellow
JFA 60×33×100×56.5	60	33	100	56.45	50	2822.4	45	2538.2	40	2254	Yellow
JFA 60×33×125×45.1	60	33	125	45.08	62.5	2822.4	56.2	2538.2	50	2254	Yellow
JFA 60×33×150×37.6	60	33	150	37.63	75	2822.4	67.5	2538.2	60	2254	Yellow
JFA 60×33×175×32.2	60	33	175	32.24	87.5	2822.4	78.7	2538.2	70	2254	Yellow
JFA 60×33×200×28.2	60	33	200	28.22	100	2822.4	90	2538.2	80	2254	Yellow
JFA 60×33×225×25.1	60	33	225	25.09	112.5	2822.4	101.3	2538.2	90	2254	Yellow
JFA 60×33×250×22.5	60	33	250	22.54	125	2822.4	112.5	2538.2	100	2254	Yellow
JFA 60×33×275×20.5	60	33	275	20.48	137.5	2822.4	123.8	2538.2	110	2254	Yellow
JFA 60×33×300×18.8	60	33	300	18.82	150	2822.4	135	2538.2	120	2254	Yellow
JFA 60×33×350×16.2	60	33	350	16.17	175	2822.4	157.5	2538.2	140	2254	Yellow
JFA 60×33×400×14.1	60	33	400	14.11	200	2822.4	180	2538.2	160	2254	Yellow
JFA 60×33×450×12.5	60	33	450	12.54	225	2822.4	202.5	2538.2	180	2254	Yellow
JFA 60×33×500×11.3	60	33	500	11.27	250	2822.4	225	2538.2	200	2254	Yellow
JFA 70×38.5×70×112	70	38.5	70	112.01	35	3920	31.5	3528	28	3136	Yellow
JFA 70×38.5×80×98	70	38.5	80	98	40	3920	36	3528	32	3136	Yellow
JFA 70×38.5×90×87.1	70	38.5	90	87.12	45	3920	40.5	3528	36	3136	Yellow
JFA 70×38.5×100×78.	70	38.5	100	78.4	50	3920	45	3528	40	3136	Yellow
JFA 70×38.5×125×62.	70	38.5	125	62.72	62.5	3920	56.2	3528	50	3136	Yellow
JFA 70×38.5×150×52.	70	38.5	150	52.23	75	3920	67.5	3528	60	3136	Yellow
JFA 70×38.5×175×44.	70	38.5	175	44.79	87.5	3920	78.7	3528	70	3136	Yellow
JFA 70×38.5×200×39.	70	38.5	200	39.2	100	3920	90	3528	80	3136	Yellow

Outer Diameter < Hole
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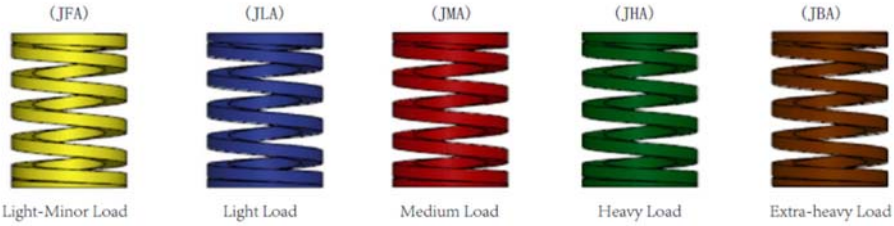
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JFA 70×38.5×225×34.	70	38.5	225	34.89	112.5	3920	101.3	3528	90	3136	Yellow
JFA 70×38.5×250×31.	70	38.5	250	31.36	125	3920	112.5	3528	100	3136	Yellow
JFA 70×38.5×275×28.	70	38.5	275	28.52	137.5	3920	123.8	3528	110	3136	Yellow
JFA 70×38.5×300×26.	70	38.5	300	26.17	150	3920	135	3528	120	3136	Yellow
JFA 70×38.5×350×22.	70	38.5	350	22.44	175	3920	157.5	3528	140	3136	Yellow
JLA 8×4×10×24.5	8	4	10	24.5	4	98	3.6	88.2	3.2	78.4	Blue
JLA 8×4×15×16.4	8	4	15	16.37	6	98	5.4	88.2	4.8	78.4	Blue
JLA 8×4×20×12.3	8	4	20	12.25	8	98	7.2	88.2	6.4	78.4	Blue
JLA 8×4×25×9.8	8	4	25	9.8	10	98	9	88.2	8	78.4	Blue
JLA 8×4×30×8.1	8	4	30	8.13	12	98	10.8	88.2	9.6	78.4	Blue
JLA 8×4×35×7	8	4	35	6.96	14	98	12.6	88.2	11.2	78.4	Blue
JLA 8×4×40×6.2	8	4	40	6.17	16	98	14.4	88.2	12.8	78.4	Blue
JLA 8×4×45×5.5	8	4	45	5.49	18	98	16.2	88.2	14.4	78.4	Blue
JLA 8×4×50×4.9	8	4	50	4.9	20	98	18	88.2	16	78.4	Blue
JLA 8×4×55×4.5	8	4	55	4.51	22	98	19.8	88.2	17.6	78.4	Blue
JLA 8×4×60×4.1	8	4	60	4.12	24	98	21.6	88.2	19.2	78.4	Blue
JLA 8×4×65×3.7	8	4	65	3.72	26	98	23.4	88.2	20.8	78.4	Blue
JLA 8×4×70×3.5	8	4	70	3.53	28	98	25.2	88.2	22.4	78.4	Blue
JLA 8×4×75×3.2	8	4	75	3.23	30	98	27	88.2	24	78.4	Blue
JLA 8×4×80×3	8	4	80	3.04	32	98	28.8	88.2	25.6	78.4	Blue
JLA 8×4×90×2.7	8	4	90	2.74	36	98	32.4	88.2	28.8	78.4	Blue
JLA 10×5×10×35.4	10	5	10	35.38	4	142.1	3.6	127.4	3.2	112.7	Blue
JLA 10×5×15×23.6	10	5	15	23.62	6	142.1	5.4	127.4	4.8	112.7	Blue
JLA 10×5×20×17.7	10	5	20	17.74	8	142.1	7.2	127.4	6.4	112.7	Blue
JLA 10×5×25×14.2	10	5	25	14.21	10	142.1	9	127.4	8	112.7	Blue
JLA 10×5×30×11.9	10	5	30	11.86	12	142.1	10.8	127.4	9.6	112.7	Blue
JLA 10×5×35×10.1	10	5	35	10.09	14	142.1	12.6	127.4	11.2	112.7	Blue
JLA 10×5×40×8.8	10	5	40	8.82	16	142.1	14.4	127.4	12.8	112.7	Blue
JLA 10×5×45×7.8	10	5	45	7.84	18	142.1	16.2	127.4	14.4	112.7	Blue
JLA 10×5×50×7.2	10	5	50	7.15	20	142.1	18	127.4	16	112.7	Blue
JLA 10×5×55×6.5	10	5	55	6.47	22	142.1	19.8	127.4	17.6	112.7	Blue
JLA 10×5×60×5.9	10	5	60	5.88	24	142.1	21.6	127.4	19.2	112.7	Blue
JLA 10×5×65×5.4	10	5	65	5.39	26	142.1	23.4	127.4	20.8	112.7	Blue
JLA 10×5×70×5	10	5	70	5	28	142.1	25.2	127.4	22.4	112.7	Blue
JLA 10×5×75×4.7	10	5	75	4.7	30	142.1	27	127.4	24	112.7	Blue
JLA 10×5×80×4.4	10	5	80	4.41	32	142.1	28.8	127.4	25.6	112.7	Blue
JLA 10×5×90×3.9	10	5	90	3.92	36	142.1	32.4	127.4	28.8	112.7	Blue
JLA 10×5×100×3.5	10	5	100	3.53	40	142.1	36	127.4	32	112.7	Blue

Outer Diameter < Hole
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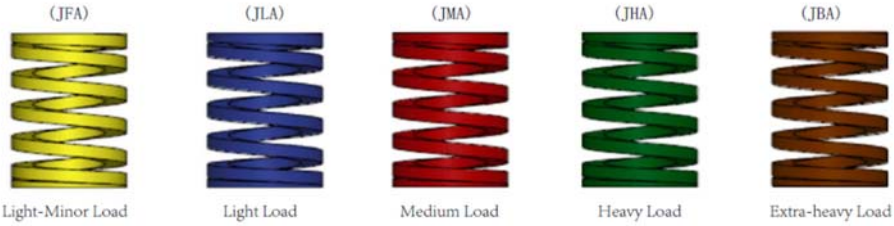
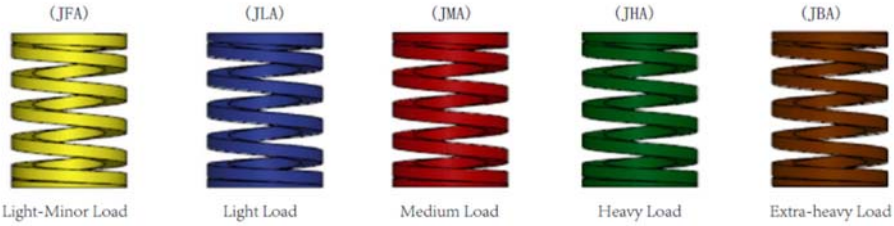


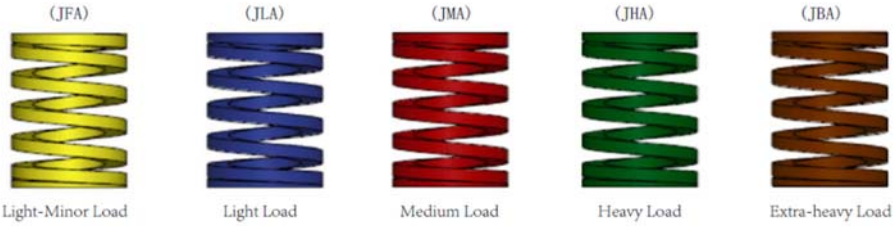
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JLA 12×6×20×25.8	12	6	20	25.77	8	205.8	7.2	186.2	6.4	166.6	Blue
JLA 12×6×25×20.6	12	6	25	20.58	10	205.8	9	186.2	8	166.6	Blue
JLA 12×6×30×17.2	12	6	30	17.15	12	205.8	10.8	186.2	9.6	166.6	Blue
JLA 12×6×35×14.7	12	6	35	14.7	14	205.8	12.6	186.2	11.2	166.6	Blue
JLA 12×6×40×12.9	12	6	40	12.94	16	205.8	14.4	186.2	12.8	166.6	Blue
JLA 12×6×45×11.5	12	6	45	11.47	18	205.8	16.2	186.2	14.4	166.6	Blue
JLA 12×6×50×10.3	12	6	50	10.29	20	205.8	18	186.2	16	166.6	Blue
JLA 12×6×55×9.4	12	6	55	9.41	22	205.8	19.8	186.2	17.6	166.6	Blue
JLA 12×6×60×8.6	12	6	60	8.62	24	205.8	21.6	186.2	19.2	166.6	Blue
JLA 12×6×65×7.9	12	6	65	7.94	26	205.8	23.4	186.2	20.8	166.6	Blue
JLA 12×6×70×7.4	12	6	70	7.35	28	205.8	25.2	186.2	22.4	166.6	Blue
JLA 12×6×75×6.9	12	6	75	6.86	30	205.8	27	186.2	24	166.6	Blue
JLA 12×6×80×6.5	12	6	80	6.47	32	205.8	28.8	186.2	25.6	166.6	Blue
JLA 12×6×90×5.7	12	6	90	5.68	36	205.8	32.4	186.2	28.8	166.6	Blue
JLA 12×6×100×5.2	12	6	100	5.19	40	205.8	36	186.2	32	166.6	Blue
JLA 14×7×20×34	14	7	20	34.01	8	274.4	7.2	245	6.4	215.6	Blue
JLA 14×7×25×27.4	14	7	25	27.44	10	274.4	9	245	8	215.6	Blue
JLA 14×7×30×22.9	14	7	30	22.93	12	274.4	10.8	245	9.6	215.6	Blue
JLA 14×7×35×19.6	14	7	35	19.6	14	274.4	12.6	245	11.2	215.6	Blue
JLA 14×7×40×17.2	14	7	40	17.15	16	274.4	14.4	245	12.8	215.6	Blue
JLA 14×7×45×15.3	14	7	45	15.29	18	274.4	16.2	245	14.4	215.6	Blue
JLA 14×7×50×13.7	14	7	50	13.72	20	274.4	18	245	16	215.6	Blue
JLA 14×7×55×12.5	14	7	55	12.45	22	274.4	19.8	245	17.6	215.6	Blue
JLA 14×7×60×11.5	14	7	60	11.47	24	274.4	21.6	245	19.2	215.6	Blue
JLA 14×7×65×10.6	14	7	65	10.58	26	274.4	23.4	245	20.8	215.6	Blue
JLA 14×7×70×9.8	14	7	70	9.8	28	274.4	25.2	245	22.4	215.6	Blue
JLA 14×7×75×9.1	14	7	75	9.11	30	274.4	27	245	24	215.6	Blue
JLA 14×7×80×8.5	14	7	80	8.53	32	274.4	28.8	245	25.6	215.6	Blue
JLA 14×7×90×7.6	14	7	90	7.55	36	274.4	32.4	245	28.8	215.6	Blue
JLA 14×7×100×6.9	14	7	100	6.86	40	274.4	36	245	32	215.6	Blue
JLA 14×7×125×5.5	14	7	125	5.49	50	274.4	45	245	40	215.6	Blue
JLA 16×8×20×43.5	16	8	20	43.51	8	343	7.2	313.6	6.4	274.4	Blue
JLA 16×8×25×34.3	16	8	25	34.3	10	343	9	313.6	8	274.4	Blue
JLA 16×8×30×28.6	16	8	30	28.62	12	343	10.8	313.6	9.6	274.4	Blue
JLA 16×8×35×24.5	16	8	35	24.5	14	343	12.6	313.6	11.2	274.4	Blue
JLA 16×8×40×21.5	16	8	40	21.46	16	343	14.4	313.6	12.8	274.4	Blue
JLA 16×8×45×19.1	16	8	45	19.11	18	343	16.2	313.6	14.4	274.4	Blue
JLA 16×8×50×17.2	16	8	50	17.15	20	343	18	313.6	16	274.4	Blue

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



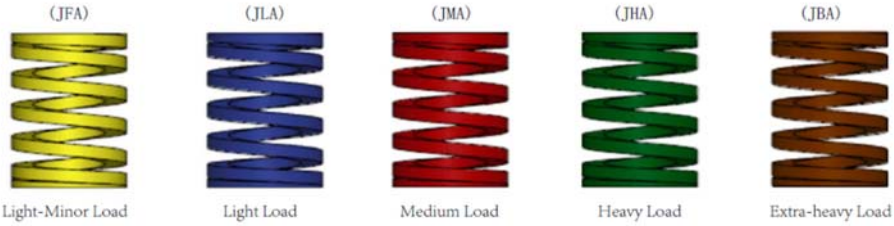
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JLA 16×8×55×15.7	16	8	55	15.68	22	343	19.8	313.6	17.6	274.4	Blue
JLA 16×8×60×14.3	16	8	60	14.31	24	343	21.6	313.6	19.2	274.4	Blue
JLA 16×8×65×13.2	16	8	65	13.23	26	343	23.4	313.6	20.8	274.4	Blue
JLA 16×8×70×12.3	16	8	70	12.25	28	343	25.2	313.6	22.4	274.4	Blue
JLA 16×8×75×11.5	16	8	75	11.47	30	343	27	313.6	24	274.4	Blue
JLA 16×8×80×10.8	16	8	80	10.78	32	343	28.8	313.6	25.6	274.4	Blue
JLA 16×8×90×9.6	16	8	90	9.6	36	343	32.4	313.6	28.8	274.4	Blue
JLA 16×8×100×8.6	16	8	100	8.62	40	343	36	313.6	32	274.4	Blue
JLA 16×8×125×6.9	16	8	125	6.86	50	343	45	313.6	40	274.4	Blue
JLA 18×9×20×53.1	18	9	20	53.12	8	421.4	7.2	382.2	6.4	333.2	Blue
JLA 18×9×25×42.1	18	9	25	42.14	10	421.4	9	382.2	8	333.2	Blue
JLA 18×9×30×35.1	18	9	30	35.08	12	421.4	10.8	382.2	9.6	333.2	Blue
JLA 18×9×35×30.1	18	9	35	30.09	14	421.4	12.6	382.2	11.2	333.2	Blue
JLA 18×9×40×26.4	18	9	40	26.36	16	421.4	14.4	382.2	12.8	333.2	Blue
JLA 18×9×45×23.4	18	9	45	23.42	18	421.4	16.2	382.2	14.4	333.2	Blue
JLA 18×9×50×21.1	18	9	50	21.07	20	421.4	18	382.2	16	333.2	Blue
JLA 18×9×55×19.2	18	9	55	19.21	22	421.4	19.8	382.2	17.6	333.2	Blue
JLA 18×9×60×17.5	18	9	60	17.54	24	421.4	21.6	382.2	19.2	333.2	Blue
JLA 18×9×65×16.3	18	9	65	16.27	26	421.4	23.4	382.2	20.8	333.2	Blue
JLA 18×9×70×15.1	18	9	70	15.09	28	421.4	25.2	382.2	22.4	333.2	Blue
JLA 18×9×75×14.1	18	9	75	14.11	30	421.4	27	382.2	24	333.2	Blue
JLA 18×9×80×13.2	18	9	80	13.23	32	421.4	28.8	382.2	25.6	333.2	Blue
JLA 18×9×90×11.8	18	9	90	11.76	36	421.4	32.4	382.2	28.8	333.2	Blue
JLA 18×9×100×10.5	18	9	100	10.49	40	421.4	36	382.2	32	333.2	Blue
JLA 18×9×125×8.4	18	9	125	8.43	50	421.4	45	382.2	40	333.2	Blue
JLA 20×10×20×66.7	20	10	20	66.74	8	529.2	7.2	480.2	6.4	421.4	Blue
JLA 20×10×25×52.9	20	10	25	52.92	10	529.2	9	480.2	8	421.4	Blue
JLA 20×10×30×44.1	20	10	30	44.1	12	529.2	10.8	480.2	9.6	421.4	Blue
JLA 20×10×35×37.8	20	10	35	37.83	14	529.2	12.6	480.2	11.2	421.4	Blue
JLA 20×10×40×33.1	20	10	40	33.12	16	529.2	14.4	480.2	12.8	421.4	Blue
JLA 20×10×45×29.4	20	10	45	29.4	18	529.2	16.2	480.2	14.4	421.4	Blue
JLA 20×10×50×26.5	20	10	50	26.46	20	529.2	18	480.2	16	421.4	Blue
JLA 20×10×55×24	20	10	55	24.01	22	529.2	19.8	480.2	17.6	421.4	Blue
JLA 20×10×60×22.1	20	10	60	22.05	24	529.2	21.6	480.2	19.2	421.4	Blue
JLA 20×10×65×20.4	20	10	65	20.38	26	529.2	23.4	480.2	20.8	421.4	Blue
JLA 20×10×70×18.9	20	10	70	18.91	28	529.2	25.2	480.2	22.4	421.4	Blue
JLA 20×10×75×17.6	20	10	75	17.64	30	529.2	27	480.2	24	421.4	Blue
JLA 20×10×80×16.6	20	10	80	16.56	32	529.2	28.8	480.2	25.6	421.4	Blue

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JLA 20×10×90×14.7	20	10	90	14.7	36	529.2	32.4	480.2	28.8	421.4	Blue
JLA 20×10×100×13.2	20	10	100	13.23	40	529.2	36	480.2	32	421.4	Blue
JLA 20×10×125×10.6	20	10	125	10.58	50	529.2	45	480.2	40	421.4	Blue
JLA 20×10×150×8.8	20	10	150	8.82	60	529.2	54	480.2	48	421.4	Blue
JLA 20×10×175×7.6	20	10	175	7.55	70	529.2	63	480.2	56	421.4	Blue
JLA 22×11×25×65.7	22	11	25	65.66	10	656.6	9	588	8	529.2	Blue
JLA 22×11×30×54.9	22	11	30	54.88	12	656.6	10.8	588	9.6	529.2	Blue
JLA 22×11×35×47	22	11	35	47.04	14	656.6	12.6	588	11.2	529.2	Blue
JLA 22×11×40×41.2	22	11	40	41.16	16	656.6	14.4	588	12.8	529.2	Blue
JLA 22×11×45×36.5	22	11	45	36.46	18	656.6	16.2	588	14.4	529.2	Blue
JLA 22×11×50×32.8	22	11	50	32.83	20	656.6	18	588	16	529.2	Blue
JLA 22×11×55×29.9	22	11	55	29.89	22	656.6	19.8	588	17.6	529.2	Blue
JLA 22×11×60×27.4	22	11	60	27.44	24	656.6	21.6	588	19.2	529.2	Blue
JLA 22×11×65×25.3	22	11	65	25.28	26	656.6	23.4	588	20.8	529.2	Blue
JLA 22×11×70×23.5	22	11	70	23.52	28	656.6	25.2	588	22.4	529.2	Blue
JLA 22×11×75×21.9	22	11	75	21.85	30	656.6	27	588	24	529.2	Blue
JLA 22×11×80×20.6	22	11	80	20.58	32	656.6	28.8	588	25.6	529.2	Blue
JLA 22×11×90×18.2	22	11	90	18.23	36	656.6	32.4	588	28.8	529.2	Blue
JLA 22×11×100×16.5	22	11	100	16.46	40	656.6	36	588	32	529.2	Blue
JLA 22×11×125×13.1	22	11	125	13.13	50	656.6	45	588	40	529.2	Blue
JLA 22×11×150×11	22	11	150	10.98	60	656.6	54	588	48	529.2	Blue
JLA 22×11×175×9.4	22	11	175	9.41	70	656.6	63	588	56	529.2	Blue
JLA 25×12.5×25×82.3	25	12.5	25	82.32	10	823.2	9	744.8	8	656.6	Blue
JLA 25×12.5×30×68.6	25	12.5	30	68.6	12	823.2	10.8	744.8	9.6	656.6	Blue
JLA 25×12.5×35×58.8	25	12.5	35	58.8	14	823.2	12.6	744.8	11.2	656.6	Blue
JLA 25×12.5×40×51.5	25	12.5	40	51.45	16	823.2	14.4	744.8	12.8	656.6	Blue
JLA 25×12.5×45×45.8	25	12.5	45	45.77	18	823.2	16.2	744.8	14.4	656.6	Blue
JLA 25×12.5×50×41.2	25	12.5	50	41.16	20	823.2	18	744.8	16	656.6	Blue
JLA 25×12.5×55×37.4	25	12.5	55	37.44	22	823.2	19.8	744.8	17.6	656.6	Blue
JLA 25×12.5×60×34.3	25	12.5	60	34.3	24	823.2	21.6	744.8	19.2	656.6	Blue
JLA 25×12.5×65×31.7	25	12.5	65	31.65	26	823.2	23.4	744.8	20.8	656.6	Blue
JLA 25×12.5×70×29.4	25	12.5	70	29.4	28	823.2	25.2	744.8	22.4	656.6	Blue
JLA 25×12.5×75×27.4	25	12.5	75	27.44	30	823.2	27	744.8	24	656.6	Blue
JLA 25×12.5×80×25.8	25	12.5	80	25.77	32	823.2	28.8	744.8	25.8	656.6	Blue
JLA 25×12.5×90×22.8	25	12.5	90	22.83	36	823.2	32.4	744.8	28.8	656.6	Blue
JLA 25×12.5×100×20.	25	12.5	100	20.58	40	823.2	36	744.8	32	656.6	Blue
JLA 25×12.5×125×16.	25	12.5	125	16.46	50	823.2	45	744.8	40	656.6	Blue
JLA 25×12.5×150×13.	25	12.5	150	13.72	60	823.2	54	744.8	48	656.6	Blue

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JLA 25×12.5×175×11.	25	12.5	175	11.76	70	823.2	63	744.8	56	656.6	Blue
JLA 25×12.5×200×10.	25	12.5	200	10.29	80	823.2	72	744.8	64	656.6	Blue
JLA 27×13.5×25×98	27	13.5	25	98	10	980	9	882	8	784	Blue
JLA 27×13.5×30×81.6	27	13.5	30	81.63	12	980	10.8	882	9.6	784	Blue
JLA 27×13.5×35×70	27	13.5	35	69.97	14	980	12.6	882	11.2	784	Blue
JLA 27×13.5×40×61.3	27	13.5	40	61.25	16	980	14.4	882	12.8	784	Blue
JLA 27×13.5×45×54.5	27	13.5	45	54.49	18	980	16.2	882	14.4	784	Blue
JLA 27×13.5×50×49	27	13.5	50	49	20	980	18	882	16	784	Blue
JLA 27×13.5×55×44.6	27	13.5	55	44.59	22	980	19.8	882	17.6	784	Blue
JLA 27×13.5×60×40.9	27	13.5	60	40.87	24	980	21.6	882	19.2	784	Blue
JLA 27×13.5×65×37.7	27	13.5	65	37.73	26	980	23.4	882	20.8	784	Blue
JLA 27×13.5×70×35	27	13.5	70	34.99	28	980	25.2	882	22.4	784	Blue
JLA 27×13.5×75×32.6	27	13.5	75	32.63	30	980	27	882	24	784	Blue
JLA 27×13.5×80×30.7	27	13.5	80	30.67	32	980	28.8	882	25.8	784	Blue
JLA 27×13.5×90×27.2	27	13.5	90	27.24	36	980	32.4	882	28.8	784	Blue
JLA 27×13.5×100×24.	27	13.5	100	24.5	40	980	36	882	32	784	Blue
JLA 27×13.5×125×19.	27	13.5	125	19.6	50	980	45	882	40	784	Blue
JLA 27×13.5×150×16.	27	13.5	150	16.37	60	980	54	882	48	784	Blue
JLA 27×13.5×175×14	27	13.5	175	14.01	70	980	63	882	56	784	Blue
JLA 27×13.5×200×12.	27	13.5	200	12.25	80	980	72	882	64	784	Blue
JLA 30×15×25×118.7	30	15	25	118.68	10	1185.8	9	1068.2	8	784	Blue
JLA 30×15×30×98.8	30	15	30	98.78	12	1185.8	10.8	1068.2	9.6	784	Blue
JLA 30×15×35×84.8	30	15	35	84.77	14	1185.8	12.6	1068.2	11.2	784	Blue
JLA 30×15×40×74.1	30	15	40	74.09	16	1185.8	14.4	1068.2	12.8	784	Blue
JLA 30×15×45×66	30	15	45	65.95	18	1185.8	16.2	1068.2	14.4	784	Blue
JLA 30×15×50×59.3	30	15	50	59.29	20	1185.8	18	1068.2	16	784	Blue
JLA 30×15×55×53.9	30	15	55	53.9	22	1185.8	19.8	1068.2	17.6	784	Blue
JLA 30×15×60×49.4	30	15	60	49.39	24	1185.8	21.6	1068.2	19.2	784	Blue
JLA 30×15×65×45.6	30	15	65	45.57	26	1185.8	23.4	1068.2	20.8	784	Blue
JLA 30×15×70×42.3	30	15	70	42.34	28	1185.8	25.2	1068.2	22.4	784	Blue
JLA 30×15×75×39.5	30	15	75	39.49	30	1185.8	27	1068.2	24	784	Blue
JLA 30×15×80×37	30	15	80	37.04	32	1185.8	28.8	1068.2	25.8	784	Blue
JLA 30×15×90×32.9	30	15	90	32.93	36	1185.8	32.4	1068.2	28.8	784	Blue
JLA 30×15×100×29.6	30	15	100	29.6	40	1185.8	36	1068.2	32	784	Blue
JLA 30×15×125×23.7	30	15	125	23.72	50	1185.8	45	1068.2	40	784	Blue
JLA 30×15×150×19.7	30	15	150	19.7	60	1185.8	54	1068.2	48	784	Blue
JLA 30×15×175×16.9	30	15	175	16.86	70	1185.8	63	1068.2	56	784	Blue
JLA 30×15×200×14.8	30	15	200	14.8	80	1185.8	72	1068.2	64	784	Blue

Outer Diameter < Hole
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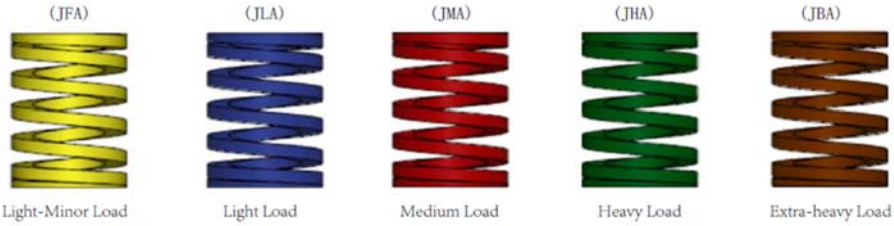
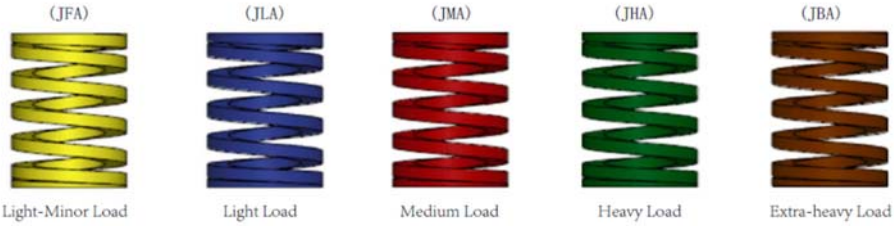
300K, 500K, 1000K mean times



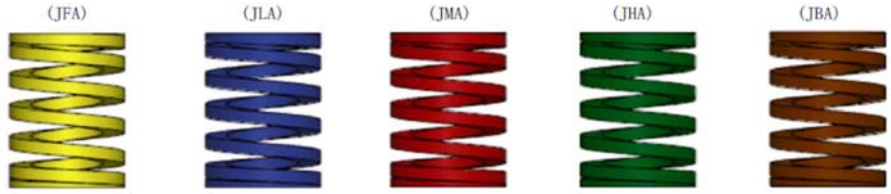
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JLA 35×17.5×35×115.	35	17.5	35	115.44	14	1617	12.6	1460.2	11.2	1293.6	Blue
JLA 35×17.5×40×101	35	17.5	40	101.04	16	1617	14.4	1460.2	12.8	1293.6	Blue
JLA 35×17.5×45×89.9	35	17.5	45	89.87	18	1617	16.2	1460.2	14.4	1293.6	Blue
JLA 35×17.5×50×80.9	35	17.5	50	80.85	20	1617	18	1460.2	16	1293.6	Blue
JLA 35×17.5×55×73.5	35	17.5	55	73.5	22	1617	19.8	1460.2	17.6	1293.6	Blue
JLA 35×17.5×60×67.3	35	17.5	60	67.33	24	1617	21.6	1460.2	19.2	1293.6	Blue
JLA 35×17.5×65×62.2	35	17.5	65	62.23	26	1617	23.4	1460.2	20.8	1293.6	Blue
JLA 35×17.5×70×57.7	35	17.5	70	57.72	28	1617	25.2	1460.2	22.4	1293.6	Blue
JLA 35×17.5×75×53.9	35	17.5	75	53.9	30	1617	27	1460.2	24	1293.6	Blue
JLA 35×17.5×80×50.5	35	17.5	80	50.47	32	1617	28.8	1460.2	25.8	1293.6	Blue
JLA 35×17.5×90×44.9	35	17.5	90	44.88	36	1617	32.4	1460.2	28.8	1293.6	Blue
JLA 35×17.5×100×40.	35	17.5	100	40.38	40	1617	36	1460.2	32	1293.6	Blue
JLA 35×17.5×125×32.	35	17.5	125	32.34	50	1617	45	1460.2	40	1293.6	Blue
JLA 35×17.5×150×27	35	17.5	150	26.95	60	1617	54	1460.2	48	1293.6	Blue
JLA 35×17.5×175×23	35	17.5	175	23.03	70	1617	63	1460.2	56	1293.6	Blue
JLA 35×17.5×200×20.	35	17.5	200	20.19	80	1617	72	1460.2	64	1293.6	Blue
JLA 40×20×40×132.3	40	20	40	132.3	16	2116.8	14.4	1901.2	12.8	1695.4	Blue
JLA 40×20×45×117.6	40	20	45	117.6	18	2116.8	16.2	1901.2	14.4	1695.4	Blue
JLA 40×20×50×105.8	40	20	50	105.84	20	2116.8	18	1901.2	16	1695.4	Blue
JLA 40×20×55×91.3	40	20	55	91.34	22	2116.8	19.8	1901.2	17.6	1695.4	Blue
JLA 40×20×60×88.2	40	20	60	88.2	24	2116.8	21.6	1901.2	19.2	1695.4	Blue
JLA 40×20×65×81.4	40	20	65	81.44	26	2116.8	23.4	1901.2	20.8	1695.4	Blue
JLA 40×20×70×75.6	40	20	70	75.56	28	2116.8	25.2	1901.2	22.4	1695.4	Blue
JLA 40×20×75×70.6	40	20	75	70.56	30	2116.8	27	1901.2	24	1695.4	Blue
JLA 40×20×80×66.2	40	20	80	66.15	32	2116.8	28.8	1901.2	25.8	1695.4	Blue
JLA 40×20×90×58.8	40	20	90	58.8	36	2116.8	32.4	1901.2	28.8	1695.4	Blue
JLA 40×20×100×52.9	40	20	100	52.92	40	2116.8	36	1901.2	32	1695.4	Blue
JLA 40×20×125×42.3	40	20	125	42.34	50	2116.8	45	1901.2	40	1695.4	Blue
JLA 40×20×150×35.3	40	20	150	35.28	60	2116.8	54	1901.2	48	1695.4	Blue
JLA 40×20×175×30.2	40	20	175	30.18	70	2116.8	63	1901.2	56	1695.4	Blue
JLA 40×20×200×26.5	40	20	200	26.46	80	2116.8	72	1901.2	64	1695.4	Blue
JLA 40×20×225×23.5	40	20	225	23.52	90	2116.8	81	1901.2	72	1695.4	Blue
JLA 40×20×250×21.2	40	20	250	21.17	100	2116.8	90	1901.2	80	1695.4	Blue
JLA 40×20×275×19.2	40	20	275	19.21	110	2116.8	99	1901.2	88	1695.4	Blue
JLA 40×20×300×17.6	40	20	300	17.64	120	2116.8	108	1901.2	96	1695.4	Blue
JLA 50×25×50×165.5	50	25	50	165.52	20	3214.4	18	2979.2	16	2646	Blue
JLA 50×25×55×150.4	50	25	55	150.43	22	3214.4	19.8	2979.2	17.6	2646	Blue
JLA 50×25×60×138	50	25	60	137.98	24	3214.4	21.6	2979.2	19.2	2646	Blue

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



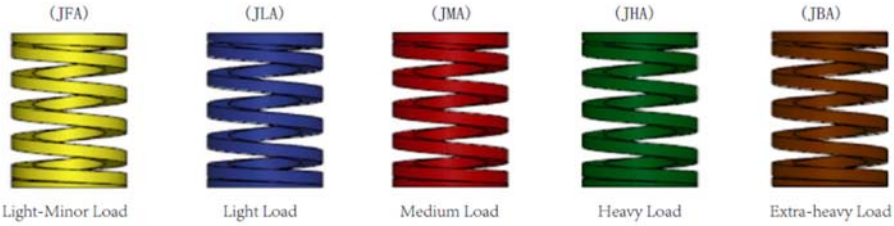
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JLA 50×25×65×127.3	50	25	65	127.3	26	3214.4	23.4	2979.2	20.8	2646	Blue
JLA 50×25×70×118.3	50	25	70	118.29	28	3214.4	25.2	2979.2	22.4	2646	Blue
JLA 50×25×75×110.4	50	25	75	110.35	30	3214.4	27	2979.2	24	2646	Blue
JLA 50×25×80×103.5	50	25	80	103.49	32	3214.4	28.8	2979.2	25.8	2646	Blue
JLA 50×25×90×91.9	50	25	90	91.92	36	3214.4	32.4	2979.2	28.8	2646	Blue
JLA 50×25×100×82.8	50	25	100	82.81	40	3214.4	36	2979.2	32	2646	Blue
JLA 50×25×125×66.3	50	25	125	66.25	50	3214.4	45	2979.2	40	2646	Blue
JLA 50×25×150×55.2	50	25	150	55.17	60	3214.4	54	2979.2	48	2646	Blue
JLA 50×25×175×47.2	50	25	175	47.24	70	3214.4	63	2979.2	56	2646	Blue
JLA 50×25×200×41.4	50	25	200	41.36	80	3214.4	72	2979.2	64	2646	Blue
JLA 50×25×225×36.8	50	25	225	36.75	90	3214.4	81	2979.2	72	2646	Blue
JLA 50×25×250×33.1	50	25	250	33.12	100	3214.4	90	2979.2	80	2646	Blue
JLA 50×25×275×30.1	50	25	275	30.09	110	3214.4	99	2979.2	88	2646	Blue
JLA 50×25×300×27.5	50	25	300	27.54	120	3214.4	108	2979.2	96	2646	Blue
JLA 50×25×350×23.6	50	25	350	23.62	140	3214.4	126	2979.2	112	2646	Blue
JLA 50×25×400×20.7	50	25	400	20.68	160	3214.4	144	2979.2	128	2646	Blue
JLA 50×25×450×18.4	50	25	450	18.42	180	3214.4	162	2979.2	144	2646	Blue
JLA 50×25×500×16.6	50	25	500	16.56	200	3214.4	180	2979.2	160	2646	Blue
JLA 60×30×60×198.5	60	30	60	198.45	24	4762.8	21.6	4282.6	19.2	3812.2	Blue
JLA 60×30×70×170	60	30	70	170.03	28	4762.8	25.2	4282.6	22.4	3812.2	Blue
JLA 60×30×80×148.8	60	30	80	148.76	32	4762.8	28.8	4282.6	25.6	3812.2	Blue
JLA 60×30×90×132.3	60	30	90	132.3	36	4762.8	32.4	4282.6	28.8	3812.2	Blue
JLA 60×30×100×119.1	60	30	100	119.07	40	4762.8	36	4282.6	32	3812.2	Blue
JLA 60×30×125×95.3	60	30	125	95.26	50	4762.8	45	4282.6	40	3812.2	Blue
JLA 60×30×150×79.4	60	30	150	79.38	60	4762.8	54	4282.6	48	3812.2	Blue
JLA 60×30×175×68	60	30	175	68.01	70	4762.8	63	4282.6	56	3812.2	Blue
JLA 60×30×200×59.5	60	30	200	59.49	80	4762.8	72	4282.6	64	3812.2	Blue
JLA 60×30×225×52.9	60	30	225	52.92	90	4762.8	81	4282.6	72	3812.2	Blue
JLA 60×30×250×47.6	60	30	250	47.63	100	4762.8	90	4282.6	80	3812.2	Blue
JLA 60×30×275×43.3	60	30	275	43.32	110	4762.8	99	4282.6	88	3812.2	Blue
JLA 60×30×300×39.7	60	30	300	39.69	120	4762.8	108	4282.6	96	3812.2	Blue
JLA 60×30×350×34	60	30	350	34.01	140	4762.8	126	4282.6	112	3812.2	Blue
JLA 60×30×400×29.8	60	30	400	29.79	160	4762.8	144	4282.6	128	3812.2	Blue
JLA 60×30×450×26.5	60	30	450	26.46	180	4762.8	162	4282.6	144	3812.2	Blue
JLA 60×30×500×23.8	60	30	500	23.81	200	4762.8	180	4282.6	160	3812.2	Blue
JLA 70×38.5×70×213.	70	38.5	70	213.54	28	5978	25.2	5380.2	22.4	4782.4	Blue
JLA 70×38.5×80×186.	70	38.5	80	186.79	32	5978	28.8	5380.2	25.6	4782.4	Blue
JLA 70×38.5×90×166	70	38.5	90	166.01	36	5978	32.4	5380.2	28.8	4782.4	Blue

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



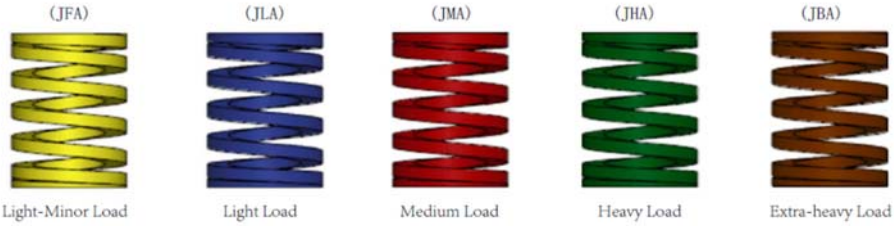
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JLA 70×38.5×100×149	70	38.5	100	149.45	40	5978	36	5380.2	32	4782.4	Blue
JLA 70×38.5×125×119	70	38.5	125	119.56	50	5978	45	5380.2	40	4782.4	Blue
JLA 70×38.5×150×99.	70	38.5	150	99.67	60	5978	54	5380.2	48	4782.4	Blue
JLA 70×38.5×175×85.	70	38.5	175	85.36	70	5978	63	5380.2	56	4782.4	Blue
JLA 70×38.5×200×74.	70	38.5	200	74.68	80	5978	72	5380.2	64	4782.4	Blue
JLA 70×38.5×225×66.	70	38.5	225	66.44	90	5978	81	5380.2	72	4782.4	Blue
JLA 70×38.5×250×59.	70	38.5	250	59.78	100	5978	90	5380.2	80	4782.4	Blue
JLA 70×38.5×275×54.	70	38.5	275	54.39	110	5978	99	5380.2	88	4782.4	Blue
JLA 70×38.5×300×49.	70	38.5	300	49.78	120	5978	108	5380.2	96	4782.4	Blue
JLA 70×38.5×350×42.	70	38.5	350	42.73	140	5978	126	5380.2	112	4782.4	Blue
JMA 8×4×10×42.5	8	4	10	42.53	3.2	137.2	2.9	122.5	2.6	107.8	Red
JMA 8×4×15×28.3	8	4	15	28.32	4.8	137.2	4.3	122.5	3.8	107.8	Red
JMA 8×4×20×21.3	8	4	20	21.27	6.4	137.2	5.8	122.5	5.1	107.8	Red
JMA 8×4×25×17.1	8	4	25	17.05	8	137.2	7.2	122.5	6.4	107.8	Red
JMA 8×4×30×14.2	8	4	30	14.21	9.6	137.2	8.6	122.5	7.7	107.8	Red
JMA 8×4×35×12.2	8	4	35	12.15	11.2	137.2	10.1	122.5	9	107.8	Red
JMA 8×4×40×10.7	8	4	40	10.68	12.8	137.2	11.5	122.5	10.2	107.8	Red
JMA 8×4×45×7.7	8	4	45	7.74	14.4	137.2	13	122.5	11.5	107.8	Red
JMA 8×4×50×8.5	8	4	50	8.53	16	137.2	14.4	122.5	12.8	107.8	Red
JMA 8×4×55×7.7	8	4	55	7.74	17.6	137.2	15.8	122.5	14.1	107.8	Red
JMA 8×4×60×7.1	8	4	60	7.06	19.2	137.2	17.3	122.5	15.4	107.8	Red
JMA 8×4×65×6.6	8	4	65	6.57	20.8	137.2	18.7	122.5	16.6	107.8	Red
JMA 8×4×70×6.1	8	4	70	6.08	22.4	137.2	20.2	122.5	17.9	107.8	Red
JMA 8×4×75×5.7	8	4	75	5.68	24	137.2	21.6	122.5	19.2	107.8	Red
JMA 8×4×80×5.3	8	4	80	5.29	25.6	137.2	23	122.5	20.5	107.8	Red
JMA 8×4×90×4.7	8	4	90	4.7	28.8	137.2	25.9	122.5	23	107.8	Red
JMA 10×5×10×60.9	10	5	10	60.86	3.2	196	2.9	176.4	2.6	156.8	Red
JMA 10×5×15×40.1	10	5	15	40.08	4.8	196	4.3	176.4	3.8	156.8	Red
JMA 10×5×20×30.7	10	5	20	30.67	6.4	196	5.8	176.4	5.1	156.8	Red
JMA 10×5×25×24.5	10	5	25	24.5	8	196	7.2	176.4	6.4	156.8	Red
JMA 10×5×30×20.4	10	5	30	20.38	9.6	196	8.6	176.4	7.7	156.8	Red
JMA 10×5×35×17.4	10	5	35	17.44	11.2	196	10.1	176.4	9	156.8	Red
JMA 10×5×40×15.3	10	5	40	15.29	12.8	196	11.5	176.4	10.2	156.8	Red
JMA 10×5×45×13.5	10	5	45	13.52	14.4	196	13	176.4	11.5	156.8	Red
JMA 10×5×50×12.3	10	5	50	12.25	16	196	14.4	176.4	12.8	156.8	Red
JMA 10×5×55×11.1	10	5	55	11.07	17.6	196	15.8	176.4	14.1	156.8	Red
JMA 10×5×60×10.2	10	5	60	10.19	19.2	196	17.3	176.4	15.4	156.8	Red
JMA 10×5×65×9.4	10	5	65	9.41	20.8	196	18.7	176.4	16.6	156.8	Red

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



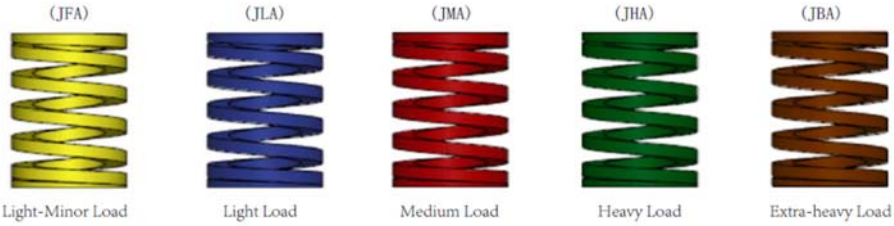
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JMA 10×5×70×8.7	10	5	70	8.72	22.4	196	20.2	176.4	17.9	156.8	Red
JMA 10×5×75×8.1	10	5	75	8.13	24	196	21.6	176.4	19.2	156.8	Red
JMA 10×5×80×7.6	10	5	80	7.64	25.6	196	23	176.4	20.5	156.8	Red
JMA 10×5×90×6.9	10	5	90	6.86	28.8	196	25.9	176.4	23	156.8	Red
JMA 10×5×100×6.2	10	5	100	6.17	32	196	28.8	176.4	25.6	156.8	Red
JMA 12×6×20×44.4	12	6	20	44.39	6.4	284.2	5.8	254.8	5.1	225.4	Red
JMA 12×6×25×35.5	12	6	25	35.48	8	284.2	7.2	254.8	6.4	225.4	Red
JMA 12×6×30×29.6	12	6	30	29.6	9.6	284.2	8.6	254.8	7.7	225.4	Red
JMA 12×6×35×25.3	12	6	35	25.28	11.2	284.2	10.1	254.8	9	225.4	Red
JMA 12×6×40×22.3	12	6	40	22.25	12.8	284.2	11.5	254.8	10.2	225.4	Red
JMA 12×6×45×19.7	12	6	45	19.7	14.4	284.2	13	254.8	11.5	225.4	Red
JMA 12×6×50×17.7	12	6	50	17.74	16	284.2	14.4	254.8	12.8	225.4	Red
JMA 12×6×55×16.1	12	6	55	16.07	17.6	284.2	15.8	254.8	14.1	225.4	Red
JMA 12×6×60×14.8	12	6	60	14.8	19.2	284.2	17.3	254.8	15.4	225.4	Red
JMA 12×6×65×13.6	12	6	65	13.62	20.8	284.2	18.7	254.8	16.6	225.4	Red
JMA 12×6×70×12.6	12	6	70	12.64	22.4	284.2	20.2	254.8	17.9	225.4	Red
JMA 12×6×75×11.8	12	6	75	11.76	24	284.2	21.6	254.8	19.2	225.4	Red
JMA 12×6×80×11.1	12	6	80	11.07	25.6	284.2	23	254.8	20.5	225.4	Red
JMA 12×6×90×9.9	12	6	90	9.9	28.8	284.2	25.9	254.8	23	225.4	Red
JMA 12×6×100×8.9	12	6	100	8.92	32	284.2	28.8	254.8	25.6	225.4	Red
JMA 14×7×20×59.1	14	7	20	59.09	6.4	382.2	5.8	343	5.1	303.8	Red
JMA 14×7×25×47.7	14	7	25	47.73	8	382.2	7.2	343	6.4	303.8	Red
JMA 14×7×30×39.8	14	7	30	39.79	9.6	382.2	8.6	343	7.7	303.8	Red
JMA 14×7×35×34.1	14	7	35	34.1	11.2	382.2	10.1	343	9	303.8	Red
JMA 14×7×40×29.8	14	7	40	29.79	12.8	382.2	11.5	343	10.2	303.8	Red
JMA 14×7×45×26.5	14	7	45	26.46	14.4	382.2	13	343	11.5	303.8	Red
JMA 14×7×50×23.8	14	7	50	23.81	16	382.2	14.4	343	12.8	303.8	Red
JMA 14×7×55×21.7	14	7	55	21.66	17.6	382.2	15.8	343	14.1	303.8	Red
JMA 14×7×60×19.9	14	7	60	19.89	19.2	382.2	17.3	343	15.4	303.8	Red
JMA 14×7×65×18.3	14	7	65	18.33	20.8	382.2	18.7	343	16.6	303.8	Red
JMA 14×7×70×17.1	14	7	70	17.05	22.4	382.2	20.2	343	17.9	303.8	Red
JMA 14×7×75×15.9	14	7	75	15.88	24	382.2	21.6	343	19.2	303.8	Red
JMA 14×7×80×14.9	14	7	80	14.9	25.6	382.2	23	343	20.5	303.8	Red
JMA 14×7×90×13.2	14	7	90	13.23	28.8	382.2	25.9	343	23	303.8	Red
JMA 14×7×100×12	14	7	100	11.96	32	382.2	28.8	343	25.6	303.8	Red
JMA 14×7×125×9.5	14	7	125	9.51	40	382.2	36	343	32	303.8	Red
JMA 16×8×20×77.7	16	8	20	77.71	6.4	499.8	5.8	450.8	5.1	401.8	Red
JMA 16×8×25×62.6	16	8	25	62.62	8	499.8	7.2	450.8	6.4	401.8	Red

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JMA 16×8×30×52.1	16	8	30	52.14	9.6	499.8	8.6	450.8	7.7	401.8	Red
JMA 16×8×35×44.6	16	8	35	44.59	11.2	499.8	10.1	450.8	9	401.8	Red
JMA 16×8×40×39	16	8	40	39	12.8	499.8	11.5	450.8	10.2	401.8	Red
JMA 16×8×45×34.7	16	8	45	34.69	14.4	499.8	13	450.8	11.5	401.8	Red
JMA 16×8×50×31.2	16	8	50	31.16	16	499.8	14.4	450.8	12.8	401.8	Red
JMA 16×8×55×28.3	16	8	55	28.32	17.6	499.8	15.8	450.8	14.1	401.8	Red
JMA 16×8×60×26	16	8	60	25.97	19.2	499.8	17.3	450.8	15.4	401.8	Red
JMA 16×8×65×24	16	8	65	24.01	20.8	499.8	18.7	450.8	16.6	401.8	Red
JMA 16×8×70×22.3	16	8	70	22.25	22.4	499.8	20.2	450.8	17.9	401.8	Red
JMA 16×8×75×20.7	16	8	75	20.68	24	499.8	21.6	450.8	19.2	401.8	Red
JMA 16×8×80×19.5	16	8	80	19.5	25.6	499.8	23	450.8	20.5	401.8	Red
JMA 16×8×90×17.4	16	8	90	17.35	28.8	499.8	25.9	450.8	23	401.8	Red
JMA 16×8×100×15.6	16	8	100	15.58	32	499.8	28.8	450.8	25.6	401.8	Red
JMA 16×8×125×12.5	16	8	125	12.54	40	499.8	36	450.8	32	401.8	Red
JMA 18×9×20×98	18	9	20	98	6.4	637	5.8	568.4	5.1	509.6	Red
JMA 18×9×25×79.6	18	9	25	79.58	8	637	7.2	568.4	6.4	509.6	Red
JMA 18×9×30×66.4	18	9	30	66.35	9.6	637	8.6	568.4	7.7	509.6	Red
JMA 18×9×35×56.8	18	9	35	56.84	11.2	637	10.1	568.4	9	509.6	Red
JMA 18×9×40×49.7	18	9	40	49.69	12.8	637	11.5	568.4	10.2	509.6	Red
JMA 18×9×45×44.2	18	9	45	44.2	14.4	637	13	568.4	11.5	509.6	Red
JMA 18×9×50×39.8	18	9	50	39.79	16	637	14.4	568.4	12.8	509.6	Red
JMA 18×9×55×36.2	18	9	55	36.16	17.6	637	15.8	568.4	14.1	509.6	Red
JMA 18×9×60×33.1	18	9	60	33.12	19.2	637	17.3	568.4	15.4	509.6	Red
JMA 18×9×65×30.6	18	9	65	30.58	20.8	637	18.7	568.4	16.6	509.6	Red
JMA 18×9×70×28.4	18	9	70	28.42	22.4	637	20.2	568.4	17.9	509.6	Red
JMA 18×9×75×26.5	18	9	75	26.46	24	637	21.6	568.4	19.2	509.6	Red
JMA 18×9×80×24.8	18	9	80	24.79	25.6	637	23	568.4	20.5	509.6	Red
JMA 18×9×90×22.1	18	9	90	22.05	28.8	637	25.9	568.4	23	509.6	Red
JMA 18×9×100×19.8	18	9	100	19.8	32	637	28.8	568.4	25.6	509.6	Red
JMA 18×9×125×15.9	18	9	125	15.88	40	637	36	568.4	32	509.6	Red
JMA 20×10×20×121.6	20	10	20	121.62	6.4	784	5.8	705.6	5.1	823.2	Red
JMA 20×10×25×98	20	10	25	98	8	784	7.2	705.6	6.4	823.2	Red
JMA 20×10×30×81.6	20	10	30	81.63	9.6	784	8.6	705.6	7.7	823.2	Red
JMA 20×10×35×70	20	10	35	69.97	11.2	784	10.1	705.6	9	823.2	Red
JMA 20×10×40×61.3	20	10	40	61.25	12.8	784	11.5	705.6	10.2	823.2	Red
JMA 20×10×45×54.4	20	10	45	54.39	14.4	784	13	705.6	11.5	823.2	Red
JMA 20×10×50×49	20	10	50	49	16	784	14.4	705.6	12.8	823.2	Red
JMA 20×10×55×44.5	20	10	55	44.49	17.6	784	15.8	705.6	14.1	823.2	Red

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JMA 20×10×60×40.8	20	10	60	40.77	19.2	784	17.3	705.6	15.4	823.2	Red
JMA 20×10×65×37.6	20	10	65	37.63	20.8	784	18.7	705.6	16.6	823.2	Red
JMA 20×10×70×35	20	10	70	34.99	22.4	784	20.2	705.6	17.9	823.2	Red
JMA 20×10×75×32.6	20	10	75	32.63	24	784	21.6	705.6	19.2	823.2	Red
JMA 20×10×80×30.6	20	10	80	30.58	25.6	784	23	705.6	20.5	823.2	Red
JMA 20×10×90×27.2	20	10	90	27.15	28.8	784	25.9	705.6	23	823.2	Red
JMA 20×10×100×24.5	20	10	100	24.5	32	784	28.8	705.6	25.6	823.2	Red
JMA 20×10×125×19.6	20	10	125	19.6	40	784	36	705.6	32	823.2	Red
JMA 20×10×150×16.4	20	10	150	16.37	48	784	43.2	705.6	38.4	823.2	Red
JMA 20×10×175×14	20	10	175	14.01	56	784	50.4	705.6	44.8	823.2	Red
JMA 22×11×25×118.9	22	11	25	118.87	8	950.6	7.2	852.6	6.4	764.4	Red
JMA 22×11×30×99	22	11	30	98.98	9.6	950.6	8.6	852.6	7.7	764.4	Red
JMA 22×11×35×84.8	22	11	35	84.77	11.2	950.6	10.1	852.6	9	764.4	Red
JMA 22×11×40×74.2	22	11	40	74.19	12.8	950.6	11.5	852.6	10.2	764.4	Red
JMA 22×11×45×66.1	22	11	45	66.05	14.4	950.6	13	852.6	11.5	764.4	Red
JMA 22×11×50×59.4	22	11	50	59.39	16	950.6	14.4	852.6	12.8	764.4	Red
JMA 22×11×55×53.9	22	11	55	53.9	17.6	950.6	15.8	852.6	14.1	764.4	Red
JMA 22×11×60×49.5	22	11	60	49.49	19.2	950.6	17.3	852.6	15.4	764.4	Red
JMA 22×11×65×45.7	22	11	65	45.67	20.8	950.6	18.7	852.6	16.6	764.4	Red
JMA 22×11×70×42.4	22	11	70	42.43	22.4	950.6	20.2	852.6	17.9	764.4	Red
JMA 22×11×75×39.6	22	11	75	39.59	24	950.6	21.6	852.6	19.2	764.4	Red
JMA 22×11×80×37	22	11	80	37.04	25.6	950.6	23	852.6	20.5	764.4	Red
JMA 22×11×90×32.9	22	11	90	32.93	28.8	950.6	25.9	852.6	23	764.4	Red
JMA 22×11×100×29.7	22	11	100	29.69	32	950.6	28.8	852.6	25.6	764.4	Red
JMA 22×11×125×23.7	22	11	125	23.72	40	950.6	36	852.6	32	764.4	Red
JMA 22×11×150×19.7	22	11	150	19.7	48	950.6	43.2	852.6	38.4	764.4	Red
JMA 22×11×175×17	22	11	175	16.95	56	950.6	50.4	852.6	44.8	764.4	Red
JMA 25×12.5×25×153.	25	12.5	25	153.17	8	1225	7.2	1097.6	6.4	980	Red
JMA 25×12.5×30×127.	25	12.5	30	127.6	9.6	1225	8.6	1097.6	7.7	980	Red
JMA 25×12.5×35×109.	25	12.5	35	109.76	11.2	1225	10.1	1097.6	9	980	Red
JMA 25×12.5×40×95.7	25	12.5	40	95.65	12.8	1225	11.5	1097.6	10.2	980	Red
JMA 25×12.5×45×85.1	25	12.5	45	85.06	14.4	1225	13	1097.6	11.5	980	Red
JMA 25×12.5×50×76.5	25	12.5	50	76.54	16	1225	14.4	1097.6	12.8	980	Red
JMA 25×12.5×55×69.6	25	12.5	55	69.58	17.6	1225	15.8	1097.6	14.1	980	Red
JMA 25×12.5×60×63.8	25	12.5	60	63.8	19.2	1225	17.3	1097.6	15.4	980	Red
JMA 25×12.5×65×58.8	25	12.5	65	58.8	20.8	1225	18.7	1097.6	16.6	980	Red
JMA 25×12.5×70×54.7	25	12.5	70	54.68	22.4	1225	20.2	1097.6	17.9	980	Red
JMA 25×12.5×75×51.1	25	12.5	75	51.06	24	1225	21.6	1097.6	19.2	980	Red

Outer Diameter < Hole
Inner Diameter > Road
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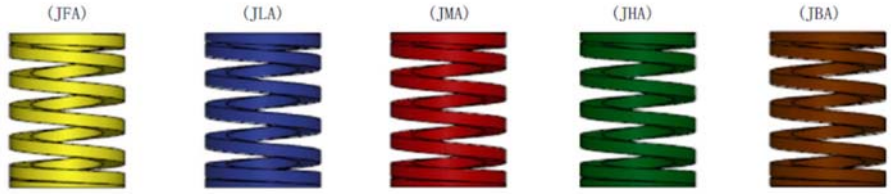
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JMA 25×12.5×80×47.8	25	12.5	80	47.82	25.6	1225	23	1097.6	20.5	980	Red
JMA 25×12.5×90×42.5	25	12.5	90	42.53	28.8	1225	25.9	1097.6	23	980	Red
JMA 25×12.5×100×38.	25	12.5	100	38.22	32	1225	28.8	1097.6	25.6	980	Red
JMA 25×12.5×125×30.	25	12.5	125	30.58	40	1225	36	1097.6	32	980	Red
JMA 25×12.5×150×25.	25	12.5	150	25.48	48	1225	43.2	1097.6	38.4	980	Red
JMA 25×12.5×175×21.	25	12.5	175	21.85	56	1225	50.4	1097.6	44.8	980	Red
JMA 25×12.5×200×19.	25	12.5	200	19.11	64	1225	57.6	1097.6	51.2	980	Red
JMA 27×13.5×25×178.	27	13.5	25	178.85	8	1430.8	7.2	1283.8	6.4	1146.6	Red
JMA 27×13.5×30×149	27	13.5	30	148.96	9.6	1430.8	8.6	1283.8	7.7	1146.6	Red
JMA 27×13.5×35×127.	27	13.5	35	127.79	11.2	1430.8	10.1	1283.8	9	1146.6	Red
JMA 27×13.5×40×111.	27	13.5	40	111.72	12.8	1430.8	11.5	1283.8	10.2	1146.6	Red
JMA 27×13.5×45×99.4	27	13.5	45	99.37	14.4	1430.8	13	1283.8	11.5	1146.6	Red
JMA 27×13.5×50×89.4	27	13.5	50	89.38	16	1430.8	14.4	1283.8	12.8	1146.6	Red
JMA 27×13.5×55×81.3	27	13.5	55	81.34	17.6	1430.8	15.8	1283.8	14.1	1146.6	Red
JMA 27×13.5×60×74.5	27	13.5	60	74.48	19.2	1430.8	17.3	1283.8	15.4	1146.6	Red
JMA 27×13.5×65×68.6	27	13.5	65	68.6	20.8	1430.8	18.7	1283.8	16.6	1146.6	Red
JMA 27×13.5×70×63.8	27	13.5	70	63.8	22.4	1430.8	20.2	1283.8	17.9	1146.6	Red
JMA 27×13.5×75×59.6	27	13.5	75	59.58	24	1430.8	21.6	1283.8	19.2	1146.6	Red
JMA 27×13.5×80×55.9	27	13.5	80	55.86	25.6	1430.8	23	1283.8	20.5	1146.6	Red
JMA 27×13.5×90×49.6	27	13.5	90	49.59	28.8	1430.8	25.9	1283.8	23	1146.6	Red
JMA 27×13.5×100×44.	27	13.5	100	44.69	32	1430.8	28.8	1283.8	25.6	1146.6	Red
JMA 27×13.5×125×35.	27	13.5	125	35.77	40	1430.8	36	1283.8	32	1146.6	Red
JMA 27×13.5×150×29.	27	13.5	150	29.79	48	1430.8	43.2	1283.8	38.4	1146.6	Red
JMA 27×13.5×175×25.	27	13.5	175	25.58	56	1430.8	50.4	1283.8	44.8	1146.6	Red
JMA 27×13.5×200×22.	27	13.5	200	22.34	64	1430.8	57.6	1283.8	51.2	1146.6	Red
JMA 30×15×25×220.5	30	15	25	220.5	8	1764	7.2	1577.8	6.4	1411.2	Red
JMA 30×15×30×183.8	30	15	30	183.75	9.6	1764	8.6	1577.8	7.7	1411.2	Red
JMA 30×15×35×157.8	30	15	35	157.78	11.2	1764	10.1	1577.8	9	1411.2	Red
JMA 30×15×40×137.8	30	15	40	137.79	12.8	1764	11.5	1577.8	10.2	1411.2	Red
JMA 30×15×45×122.5	30	15	45	122.5	14.4	1764	13	1577.8	11.5	1411.2	Red
JMA 30×15×50×110.3	30	15	50	110.25	16	1764	14.4	1577.8	12.8	1411.2	Red
JMA 30×15×55×100.3	30	15	55	100.25	17.6	1764	15.8	1577.8	14.1	1411.2	Red
JMA 30×15×60×91.8	30	15	60	91.83	19.2	1764	17.3	1577.8	15.4	1411.2	Red
JMA 30×15×65×84.8	30	15	65	84.77	20.8	1764	18.7	1577.8	16.6	1411.2	Red
JMA 30×15×70×78.7	30	15	70	78.69	22.4	1764	20.2	1577.8	17.9	1411.2	Red
JMA 30×15×75×73.5	30	15	75	73.5	24	1764	21.6	1577.8	19.2	1411.2	Red
JMA 30×15×80×68.9	30	15	80	68.89	25.6	1764	23	1577.8	20.5	1411.2	Red
JMA 30×15×90×61.3	30	15	90	61.25	28.8	1764	25.9	1577.8	23	1411.2	Red

Outer Diameter < Hole
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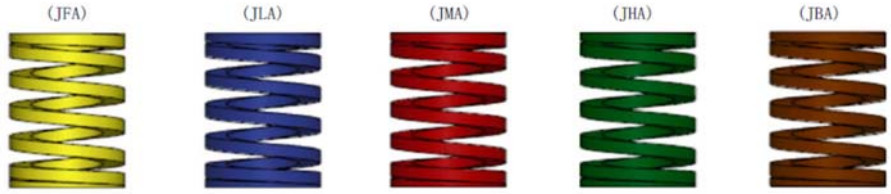
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JMA 30×15×100×55.1	30	15	100	55.08	32	1764	28.8	1577.8	25.6	1411.2	Red
JMA 30×15×125×44.1	30	15	125	44.1	40	1764	36	1577.8	32	1411.2	Red
JMA 30×15×150×36.8	30	15	150	36.75	48	1764	43.2	1577.8	38.4	1411.2	Red
JMA 30×15×175×31.5	30	15	175	31.46	56	1764	50.4	1577.8	44.8	1411.2	Red
JMA 30×15×200×27.5	30	15	200	27.54	64	1764	57.6	1577.8	51.2	1411.2	Red
JMA 35×17.5×35×214.	35	17.5	35	214.33	11.2	2401	10.1	2156	9	1911	Red
JMA 35×17.5×40×187.	35	17.5	40	187.57	12.8	2401	11.5	2156	10.2	1911	Red
JMA 35×17.5×45×166.	35	17.5	45	166.7	14.4	2401	13	2156	11.5	1911	Red
JMA 35×17.5×50×150	35	17.5	50	150.04	16	2401	14.4	2156	12.8	1911	Red
JMA 35×17.5×55×136.	35	17.5	55	136.42	17.6	2401	15.8	2156	14.1	1911	Red
JMA 35×17.5×60×125.	35	17.5	60	125.05	19.2	2401	17.3	2156	15.4	1911	Red
JMA 35×17.5×65×115.	35	17.5	65	115.35	20.8	2401	18.7	2156	16.6	1911	Red
JMA 35×17.5×70×107.	35	17.5	70	107.11	22.4	2401	20.2	2156	17.9	1911	Red
JMA 35×17.5×75×100	35	17.5	75	99.96	24	2401	21.6	2156	19.2	1911	Red
JMA 35×17.5×80×93.8	35	17.5	80	93.79	25.6	2401	23	2156	20.5	1911	Red
JMA 35×17.5×90×83.3	35	17.5	90	83.3	28.8	2401	25.9	2156	23	1911	Red
JMA 35×17.5×100×75	35	17.5	100	74.97	32	2401	28.8	2156	25.6	1911	Red
JMA 35×17.5×125×60	35	17.5	125	59.98	40	2401	36	2156	32	1911	Red
JMA 35×17.5×150×50	35	17.5	150	49.98	48	2401	43.2	2156	38.4	1911	Red
JMA 35×17.5×175×42.	35	17.5	175	42.83	56	2401	50.4	2156	44.8	1911	Red
JMA 35×17.5×200×37.	35	17.5	200	37.44	64	2401	57.6	2156	51.2	1911	Red
JMA 40×20×40×245.2	40	20	40	245.2	12.8	3136	11.5	2920.4	10.2	2508.8	Red
JMA 40×20×45×218.2	40	20	45	218.15	14.4	3136	13	2920.4	11.5	2508.8	Red
JMA 40×20×50×196	40	20	50	196	16	3136	14.4	2920.4	12.8	2508.8	Red
JMA 40×20×55×177.9	40	20	55	177.87	17.6	3136	15.8	2920.4	14.1	2508.8	Red
JMA 40×20×60×162.7	40	20	60	162.68	19.2	3136	17.3	2920.4	15.4	2508.8	Red
JMA 40×20×65×150.9	40	20	65	150.92	20.8	3136	18.7	2920.4	16.6	2508.8	Red
JMA 40×20×70×139.9	40	20	70	139.94	22.4	3136	20.2	2920.4	17.9	2508.8	Red
JMA 40×20×75×130.7	40	20	75	130.73	24	3136	21.6	2920.4	19.2	2508.8	Red
JMA 40×20×80×122.5	40	20	80	122.5	25.6	3136	23	2920.4	20.5	2508.8	Red
JMA 40×20×90×108.9	40	20	90	108.88	28.8	3136	25.9	2920.4	23	2508.8	Red
JMA 40×20×100×98	40	20	100	98	32	3136	28.8	2920.4	25.6	2508.8	Red
JMA 40×20×125×78.4	40	20	125	78.4	40	3136	36	2920.4	32	2508.8	Red
JMA 40×20×150×65.3	40	20	150	65.27	48	3136	43.2	2920.4	38.4	2508.8	Red
JMA 40×20×175×56	40	20	175	55.96	56	3136	50.4	2920.4	44.8	2508.8	Red
JMA 40×20×200×49	40	20	200	49	64	3136	57.6	2920.4	51.2	2508.8	Red
JMA 40×20×225×43.5	40	20	225	43.51	72	3136	64.8	2920.4	57.6	2508.8	Red
JMA 40×20×250×39.2	40	20	250	39.2	80	3136	72	2920.4	64	2508.8	Red

Outer Diameter < Hole
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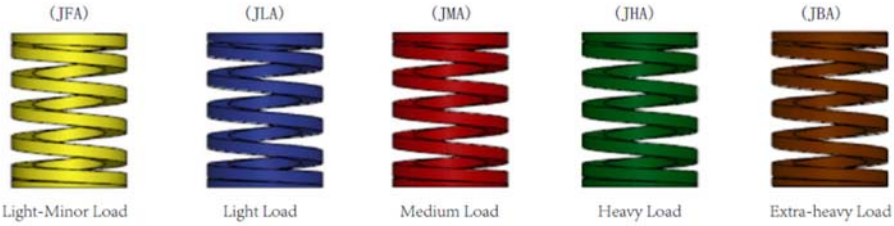
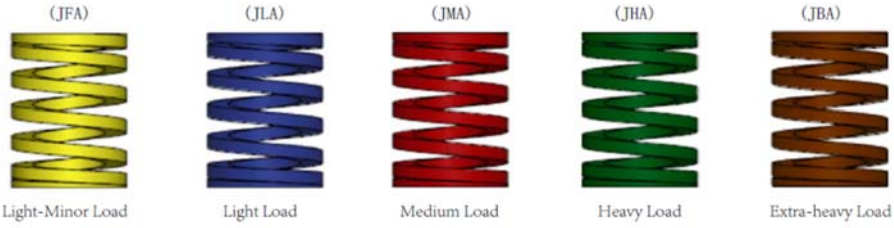
300K, 500K, 1000K mean times



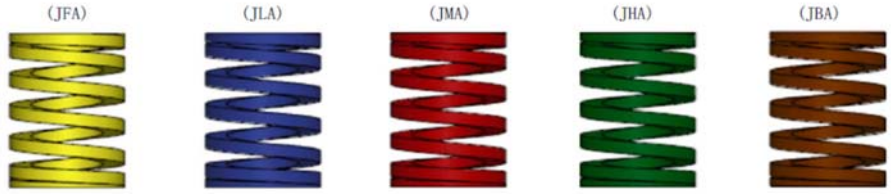
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JMA 40×20×275×35.7	40	20	275	35.67	88	3136	79.2	2920.4	70.4	2508.8	Red
JMA 40×20×300×32.6	40	20	300	32.63	96	3136	86.4	2920.4	76.8	2508.8	Red
JMA 50×25×50×306.3	50	25	50	306.25	16	4900	14.4	4410	12.8	3920	Red
JMA 50×25×55×278.4	50	25	55	278.42	17.6	4900	15.8	4410	14.1	3920	Red
JMA 50×25×60×255.2	50	25	60	255.19	19.2	4900	17.3	4410	15.4	3920	Red
JMA 50×25×65×235.6	50	25	65	235.59	20.8	4900	18.7	4410	16.6	3920	Red
JMA 50×25×70×218.7	50	25	70	218.74	22.4	4900	20.2	4410	17.9	3920	Red
JMA 50×25×75×204.1	50	25	75	204.13	24	4900	21.6	4410	19.2	3920	Red
JMA 50×25×80×191.4	50	25	80	191.39	25.6	4900	23	4410	20.5	3920	Red
JMA 50×25×90×170.1	50	25	90	170.13	28.8	4900	25.9	4410	23	3920	Red
JMA 50×25×100×153.1	50	25	100	153.08	32	4900	28.8	4410	25.6	3920	Red
JMA 50×25×125×122.5	50	25	125	122.5	40	4900	36	4410	32	3920	Red
JMA 50×25×150×102	50	25	150	102.02	48	4900	43.2	4410	38.4	3920	Red
JMA 50×25×175×87.4	50	25	175	87.42	56	4900	50.4	4410	44.8	3920	Red
JMA 50×25×200×76.5	50	25	200	76.54	64	4900	57.6	4410	51.2	3920	Red
JMA 50×25×225×68	50	25	225	68.01	72	4900	64.8	4410	57.6	3920	Red
JMA 50×25×250×61.3	50	25	250	61.25	80	4900	72	4410	64	3920	Red
JMA 50×25×275×55.7	50	25	275	55.66	88	4900	79.2	4410	70.4	3920	Red
JMA 50×25×300×51	50	25	300	50.96	96	4900	86.4	4410	76.8	3920	Red
JMA 50×25×350×43.7	50	25	350	43.71	112	4900	100.8	4410	89.6	3920	Red
JMA 60×30×60×366.5	60	30	60	366.52	19.2	7056	17.3	6350.4	15.4	5635	Red
JMA 60×30×70×314.6	60	30	70	314.58	22.4	7056	20.2	6350.4	17.9	5635	Red
JMA 60×30×80×275.6	60	30	80	275.58	25.6	7056	23	6350.4	20.5	5635	Red
JMA 60×30×90×245	60	30	90	245	28.8	7056	25.9	6350.4	23	5635	Red
JMA 60×30×100×220.5	60	30	100	220.5	32	7056	28.8	6350.4	25.6	5635	Red
JMA 60×30×125×176.4	60	30	125	176.4	40	7056	36	6350.4	32	5635	Red
JMA 60×30×150×147	60	30	150	147	48	7056	43.2	6350.4	38.4	5635	Red
JMA 60×30×175×125.9	60	30	175	125.93	56	7056	50.4	6350.4	44.8	5635	Red
JMA 60×30×200×110.3	60	30	200	110.25	64	7056	57.6	6350.4	51.2	5635	Red
JMA 60×30×225×98	60	30	225	98	72	7056	64.8	6350.4	57.6	5635	Red
JMA 60×30×250×88.2	60	30	250	88.2	80	7056	72	6350.4	64	5635	Red
JMA 60×30×275×80.2	60	30	275	80.16	88	7056	79.2	6350.4	70.4	5635	Red
JMA 60×30×300×73.5	60	30	300	73.5	96	7056	86.4	6350.4	76.8	5635	Red
JMA 60×30×350×63	60	30	350	63.01	112	7056	100.8	6350.4	89.6	5635	Red
JMA 70×38.5×70×437.	70	38.5	70	437.47	22.4	9800	20.1	8820	17.9	7840	Red
JMA 70×38.5×80×382.	70	38.5	80	382.79	25.6	9800	23	8820	20.5	7840	Red
JMA 70×38.5×90×340.	70	38.5	90	340.26	28.8	9800	25.9	8820	23	7840	Red
JMA 70×38.5×100×306	70	38.5	100	306.25	32	9800	28.8	8820	25.6	7840	Red

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JMA 70×38.5×125×245	70	38.5	125	245	40	9800	36	8820	32	7840	Red
JMA 70×38.5×150×204	70	38.5	150	204.13	48	9800	43.2	8820	38.4	7840	Red
JMA 70×38.5×175×175	70	38.5	175	175.03	56	9800	50.4	8820	44.8	7840	Red
JMA 70×38.5×200×153	70	38.5	200	153.17	64	9800	57.6	8820	51.2	7840	Red
JMA 70×38.5×225×136	70	38.5	225	136.12	72	9800	64.8	8820	57.6	7840	Red
JMA 70×38.5×250×122	70	38.5	250	122.5	80	9800	72	8820	64	7840	Red
JMA 70×38.5×275×111	70	38.5	275	111.33	88	9800	79.2	8820	70.4	7840	Red
JMA 70×38.5×300×102	70	38.5	300	102.12	96	9800	86.4	8820	76.8	7840	Red
JMA 70×38.5×350×87.	70	38.5	350	87.51	112	9800	100.8	8820	89.6	7840	Red
JHA 8×4×10×86.2	8	4	10	86.24	2.4	205.8	2.2	186.2	1.9	166.6	Green
JHA 8×4×15×57.4	8	4	15	57.43	3.6	205.8	3.2	186.2	2.9	166.6	Green
JHA 8×4×20×43.1	8	4	20	43.12	4.8	205.8	4.3	186.2	3.8	166.6	Green
JHA 8×4×25×34.5	8	4	25	34.5	6	205.8	5.4	186.2	4.8	166.6	Green
JHA 8×4×30×28.7	8	4	30	28.71	7.2	205.8	6.5	186.2	5.8	166.6	Green
JHA 8×4×35×24.6	8	4	35	24.6	8.4	205.8	7.6	186.2	6.7	166.6	Green
JHA 8×4×40×21.6	8	4	40	21.56	9.6	205.8	8.6	186.2	7.7	166.6	Green
JHA 8×4×45×19.1	8	4	45	19.11	10.8	205.8	9.7	186.2	8.6	166.6	Green
JHA 8×4×50×17.3	8	4	50	17.25	12	205.8	10.8	186.2	9.6	166.6	Green
JHA 8×4×55×15.7	8	4	55	15.68	13.2	205.8	11.9	186.2	10.6	166.6	Green
JHA 8×4×60×14.4	8	4	60	14.41	14.4	205.8	13	186.2	11.5	166.6	Green
JHA 8×4×65×13.2	8	4	65	13.23	15.6	205.8	14	186.2	12.5	166.6	Green
JHA 8×4×70×12.4	8	4	70	12.35	16.8	205.8	15.1	186.2	13.4	166.6	Green
JHA 8×4×75×11.5	8	4	75	11.47	18	205.8	16.2	186.2	14.4	166.6	Green
JHA 8×4×80×10.8	8	4	80	10.78	19.2	205.8	17.3	186.2	15.4	166.6	Green
JHA 8×4×90×9.6	8	4	90	9.6	21.6	205.8	19.4	186.2	17.3	166.6	Green
JHA 10×5×10×120.3	10	5	10	120.25	2.4	294	2.2	264.6	1.9	235.2	Green
JHA 10×5×15×80.2	10	5	15	80.16	3.6	294	3.2	264.6	2.9	235.2	Green
JHA 10×5×20×61.3	10	5	20	61.25	4.8	294	4.3	264.6	3.8	235.2	Green
JHA 10×5×25×49	10	5	25	49	6	294	5.4	264.6	4.8	235.2	Green
JHA 10×5×30×40.8	10	5	30	40.77	7.2	294	6.5	264.6	5.8	235.2	Green
JHA 10×5×35×35	10	5	35	34.99	8.4	294	7.6	264.6	6.7	235.2	Green
JHA 10×5×40×30.9	10	5	40	30.87	9.6	294	8.6	264.6	7.7	235.2	Green
JHA 10×5×45×27.2	10	5	45	27.15	10.8	294	9.7	264.6	8.6	235.2	Green
JHA 10×5×50×24.5	10	5	50	24.5	12	294	10.8	264.6	9.6	235.2	Green
JHA 10×5×55×22.3	10	5	55	22.25	13.2	294	11.9	264.6	10.6	235.2	Green
JHA 10×5×60×20.4	10	5	60	20.38	14.4	294	13	264.6	11.5	235.2	Green
JHA 10×5×65×18.8	10	5	65	18.82	15.6	294	14	264.6	12.5	235.2	Green
JHA 10×5×70×17.5	10	5	70	17.54	16.8	294	15.1	264.6	13.4	235.2	Green

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JHA 10×5×75×16.4	10	5	75	16.37	18	294	16.2	264.6	14.4	235.2	Green
JHA 10×5×80×15.3	10	5	80	15.29	19.2	294	17.3	264.6	15.4	235.2	Green
JHA 10×5×90×13.6	10	5	90	13.62	21.6	294	19.4	264.6	17.3	235.2	Green
JHA 10×5×100×12.3	10	5	100	12.25	24	294	21.6	264.6	19.2	235.2	Green
JHA 12×6×20×87.2	12	6	20	87.22	4.8	421.4	4.3	372.4	3.8	333.2	Green
JHA 12×6×25×69.6	12	6	25	69.58	6	421.4	5.4	372.4	4.8	333.2	Green
JHA 12×6×30×58.5	12	6	30	58.51	7.2	421.4	6.5	372.4	5.8	333.2	Green
JHA 12×6×35×50.1	12	6	35	50.08	8.4	421.4	7.6	372.4	6.7	333.2	Green
JHA 12×6×40×43.8	12	6	40	43.81	9.6	421.4	8.6	372.4	7.7	333.2	Green
JHA 12×6×45×39	12	6	45	39	10.8	421.4	9.7	372.4	8.6	333.2	Green
JHA 12×6×50×35.1	12	6	50	35.08	12	421.4	10.8	372.4	9.6	333.2	Green
JHA 12×6×55×31.9	12	6	55	31.85	13.2	421.4	11.9	372.4	10.6	333.2	Green
JHA 12×6×60×29.2	12	6	60	29.2	14.4	421.4	13	372.4	11.5	333.2	Green
JHA 12×6×65×26.9	12	6	65	26.85	15.6	421.4	14	372.4	12.5	333.2	Green
JHA 12×6×70×24.9	12	6	70	24.89	16.8	421.4	15.1	372.4	13.4	333.2	Green
JHA 12×6×75×23.2	12	6	75	23.23	18	421.4	16.2	372.4	14.4	333.2	Green
JHA 12×6×80×21.7	12	6	80	21.66	19.2	421.4	17.3	372.4	15.4	333.2	Green
JHA 12×6×90×19.4	12	6	90	19.4	21.6	421.4	19.4	372.4	17.3	333.2	Green
JHA 12×6×100×17.4	12	6	100	17.44	24	421.4	21.6	372.4	19.2	333.2	Green
JHA 14×7×20×118.1	14	7	20	118.09	4.8	578.2	4.3	519.4	3.8	460.6	Green
JHA 14×7×25×96.3	14	7	25	96.33	6	578.2	5.4	519.4	4.8	460.6	Green
JHA 14×7×30×80.3	14	7	30	80.26	7.2	578.2	6.5	519.4	5.8	460.6	Green
JHA 14×7×35×68.8	14	7	35	68.8	8.4	578.2	7.6	519.4	6.7	460.6	Green
JHA 14×7×40×60.2	14	7	40	60.17	9.6	578.2	8.6	519.4	7.7	460.6	Green
JHA 14×7×45×53.5	14	7	45	53.51	10.8	578.2	9.7	519.4	8.6	460.6	Green
JHA 14×7×50×48.1	14	7	50	48.12	12	578.2	10.8	519.4	9.6	460.6	Green
JHA 14×7×55×43.7	14	7	55	43.71	13.2	578.2	11.9	519.4	10.6	460.6	Green
JHA 14×7×60×40.1	14	7	60	40.08	14.4	578.2	13	519.4	11.5	460.6	Green
JHA 14×7×65×37	14	7	65	37.04	15.6	578.2	14	519.4	12.5	460.6	Green
JHA 14×7×70×34.4	14	7	70	34.4	16.8	578.2	15.1	519.4	13.4	460.6	Green
JHA 14×7×75×32.1	14	7	75	32.05	18	578.2	16.2	519.4	14.4	460.6	Green
JHA 14×7×80×30.1	14	7	80	30.09	19.2	578.2	17.3	519.4	15.4	460.6	Green
JHA 14×7×90×26.7	14	7	90	26.66	21.6	578.2	19.4	519.4	17.3	460.6	Green
JHA 14×7×100×24.1	14	7	100	24.11	24	578.2	21.6	519.4	19.2	460.6	Green
JHA 14×7×125×19.3	14	7	125	19.31	30	578.2	27	519.4	24	460.6	Green
JHA 16×8×20×153.7	16	8	20	153.66	4.8	754.6	4.4	676.2	3.8	607.6	Green
JHA 16×8×25×125.7	16	8	25	125.73	6	754.6	5.4	676.2	4.8	607.6	Green
JHA 16×8×30×104.8	16	8	30	104.76	7.2	754.6	6.5	676.2	5.8	607.6	Green

Outer Diameter < Hole
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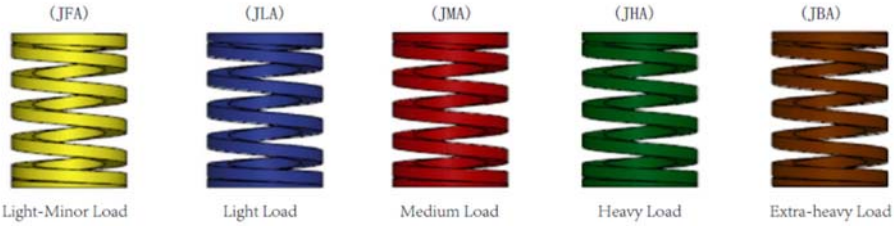
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JHA 16×8×35×89.8	16	8	35	89.77	8.4	754.6	7.6	676.2	6.7	607.6	Green
JHA 16×8×40×78.6	16	8	40	78.6	9.6	754.6	8.6	676.2	7.7	607.6	Green
JHA 16×8×45×69.8	16	8	45	69.78	10.8	754.6	9.7	676.2	8.6	607.6	Green
JHA 16×8×50×62.8	16	8	50	62.82	12	754.6	10.8	676.2	9.6	607.6	Green
JHA 16×8×55×57.1	16	8	55	57.13	13.2	754.6	11.9	676.2	10.6	607.6	Green
JHA 16×8×60×52.3	16	8	60	52.33	14.4	754.6	13	676.2	11.5	607.6	Green
JHA 16×8×65×48.3	16	8	65	48.31	15.6	754.6	14	676.2	12.5	607.6	Green
JHA 16×8×70×44.9	16	8	70	44.88	16.8	754.6	15.1	676.2	13.4	607.6	Green
JHA 16×8×75×41.9	16	8	75	41.94	18	754.6	16.2	676.2	14.4	607.6	Green
JHA 16×8×80×39.3	16	8	80	39.3	19.2	754.6	17.3	676.2	15.4	607.6	Green
JHA 16×8×90×35	16	8	90	34.99	21.6	754.6	19.4	676.2	17.3	607.6	Green
JHA 16×8×100×31.5	16	8	100	31.46	24	754.6	21.6	676.2	19.2	607.6	Green
JHA 16×8×125×25.2	16	8	125	25.19	30	754.6	27	676.2	24	607.6	Green
JHA 18×9×20×193.8	18	9	20	193.75	4.8	950.6	4.4	852.6	3.8	764.4	Green
JHA 18×9×25×158.4	18	9	25	158.37	6	950.6	5.4	852.6	4.8	764.4	Green
JHA 18×9×30×132	18	9	30	132.01	7.2	950.6	6.5	852.6	5.8	764.4	Green
JHA 18×9×35×113.1	18	9	35	113.09	8.4	950.6	7.6	852.6	6.7	764.4	Green
JHA 18×9×40×99	18	9	40	98.98	9.6	950.6	8.6	852.6	7.7	764.4	Green
JHA 18×9×45×88	18	9	45	88	10.8	950.6	9.7	852.6	8.6	764.4	Green
JHA 18×9×50×79.2	18	9	50	79.18	12	950.6	10.8	852.6	9.6	764.4	Green
JHA 18×9×55×71.9	18	9	55	71.93	13.2	950.6	11.9	852.6	10.6	764.4	Green
JHA 18×9×60×66	18	9	60	65.95	14.4	950.6	13	852.6	11.5	764.4	Green
JHA 18×9×65×60.9	18	9	65	60.86	15.6	950.6	14	852.6	12.5	764.4	Green
JHA 18×9×70×56.6	18	9	70	56.55	16.8	950.6	15.1	852.6	13.4	764.4	Green
JHA 18×9×75×52.8	18	9	75	52.82	18	950.6	16.2	852.6	14.4	764.4	Green
JHA 18×9×80×49.5	18	9	80	49.49	19.2	950.6	17.3	852.6	15.4	764.4	Green
JHA 18×9×90×44.1	18	9	90	44.1	21.6	950.6	19.4	852.6	17.3	764.4	Green
JHA 18×9×100×39.6	18	9	100	39.59	24	950.6	21.6	852.6	19.2	764.4	Green
JHA 18×9×125×31.7	18	9	125	31.65	30	950.6	27	852.6	24	764.4	Green
JHA 20×10×20×240.6	20	10	20	240.59	4.8	1176	4.4	1058.4	3.7	940.8	Green
JHA 20×10×25×196	20	10	25	196	6	1176	5.4	1058.4	4.8	940.8	Green
JHA 20×10×30×163.3	20	10	30	163.27	7.2	1176	6.5	1058.4	5.8	940.8	Green
JHA 20×10×35×139.9	20	10	35	139.94	8.4	1176	7.6	1058.4	6.7	940.8	Green
JHA 20×10×40×122.5	20	10	40	122.5	9.6	1176	8.6	1058.4	7.7	940.8	Green
JHA 20×10×45×108.9	20	10	45	108.88	10.8	1176	9.7	1058.4	8.6	940.8	Green
JHA 20×10×50×98	20	10	50	98	12	1176	10.8	1058.4	9.6	940.8	Green
JHA 20×10×55×89.1	20	10	55	89.08	13.2	1176	11.9	1058.4	10.6	940.8	Green
JHA 20×10×60×81.6	20	10	60	81.63	14.4	1176	13	1058.4	11.5	940.8	Green

Outer Diameter < Hole
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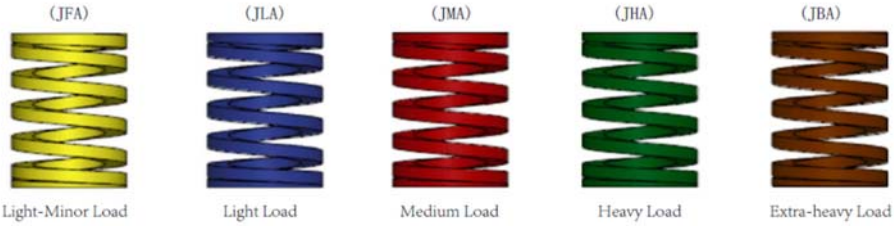
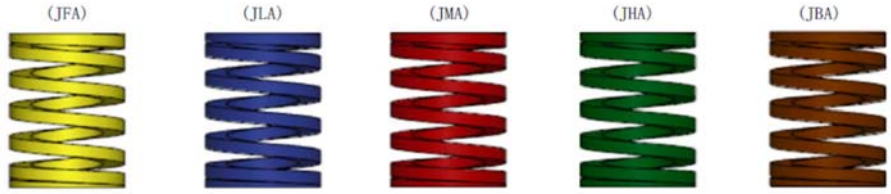
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JHA 20×10×65×75.4	20	10	65	75.36	15.6	1176	14	1058.4	12.5	940.8	Green
JHA 20×10×70×70	20	10	70	69.97	16.8	1176	15.1	1058.4	13.4	940.8	Green
JHA 20×10×75×65.4	20	10	75	65.37	18	1176	16.2	1058.4	14.4	940.8	Green
JHA 20×10×80×61.3	20	10	80	61.25	19.2	1176	17.3	1058.4	15.4	940.8	Green
JHA 20×10×90×54.4	20	10	90	54.39	21.6	1176	19.4	1058.4	17.3	940.8	Green
JHA 20×10×100×49	20	10	100	49	24	1176	21.6	1058.4	19.2	940.8	Green
JHA 20×10×125×39.2	20	10	125	39.2	30	1176	27	1058.4	24	940.8	Green
JHA 20×10×150×32.6	20	10	150	32.63	36	1176	32.4	1058.4	28.8	940.8	Green
JHA 20×10×175×28	20	10	175	28.03	42	1176	37.8	1058.4	33.6	940.8	Green
JHA 22×11×25×236.8	22	11	25	236.77	6	1421	5.4	1274	4.8	1136.8	Green
JHA 22×11×30×197.3	22	11	30	197.27	7.2	1421	6.5	1274	5.8	1136.8	Green
JHA 22×11×35×169.5	22	11	35	169.54	8.4	1421	7.6	1274	6.7	1136.8	Green
JHA 22×11×40×148	22	11	40	147.98	9.6	1421	8.6	1274	7.7	1136.8	Green
JHA 22×11×45×131.3	22	11	45	131.32	10.8	1421	9.7	1274	8.6	1136.8	Green
JHA 22×11×50×118.4	22	11	50	118.38	12	1421	10.8	1274	9.6	1136.8	Green
JHA 22×11×55×107.2	22	11	55	107.21	13.2	1421	11.9	1274	10.6	1136.8	Green
JHA 22×11×60×98.6	22	11	60	98.59	14.4	1421	13	1274	11.5	1136.8	Green
JHA 22×11×65×90.9	22	11	65	90.94	15.6	1421	14	1274	12.5	1136.8	Green
JHA 22×11×70×84.6	22	11	70	84.57	16.8	1421	15.1	1274	13.4	1136.8	Green
JHA 22×11×75×78.8	22	11	75	78.79	18	1421	16.2	1274	14.4	1136.8	Green
JHA 22×11×80×74	22	11	80	73.99	19.2	1421	17.3	1274	15.4	1136.8	Green
JHA 22×11×90×65.8	22	11	90	65.76	21.6	1421	19.4	1274	17.3	1136.8	Green
JHA 22×11×100×59.2	22	11	100	59.19	24	1421	21.6	1274	19.2	1136.8	Green
JHA 22×11×125×47.3	22	11	125	47.33	30	1421	27	1274	24	1136.8	Green
JHA 22×11×150×39.4	22	11	150	39.4	36	1421	32.4	1274	28.8	1136.8	Green
JHA 22×11×175×33.8	22	11	175	33.83	42	1421	37.8	1274	33.6	1136.8	Green
JHA 25×12.5×25×305.	25	12.5	25	305.76	6	1832.6	5.4	1656.2	4.8	1470	Green
JHA 25×12.5×30×254.	25	12.5	30	254.51	7.2	1832.6	6.5	1656.2	5.8	1470	Green
JHA 25×12.5×35×219.	25	12.5	35	219.32	8.4	1832.6	7.6	1656.2	6.7	1470	Green
JHA 25×12.5×40×190.	25	12.5	40	190.81	9.6	1832.6	8.6	1656.2	7.7	1470	Green
JHA 25×12.5×45×170.	25	12.5	45	170.52	10.8	1832.6	9.7	1656.2	8.6	1470	Green
JHA 25×12.5×50×152.	25	12.5	50	152.68	12	1832.6	10.8	1656.2	9.6	1470	Green
JHA 25×12.5×55×139.	25	12.5	55	139.16	13.2	1832.6	11.9	1656.2	10.6	1470	Green
JHA 25×12.5×60×127.	25	12.5	60	127.2	14.4	1832.6	13	1656.2	11.5	1470	Green
JHA 25×12.5×65×117.	25	12.5	65	117.6	15.6	1832.6	14	1656.2	12.5	1470	Green
JHA 25×12.5×70×109.	25	12.5	70	109.07	16.8	1832.6	15.1	1656.2	13.4	1470	Green
JHA 25×12.5×75×101.	25	12.5	75	101.92	18	1832.6	16.2	1656.2	14.4	1470	Green
JHA 25×12.5×80×95.4	25	12.5	80	95.35	19.2	1832.6	17.3	1656.2	15.4	1470	Green

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JHA 25×12.5×90×84.8	25	12.5	90	84.77	21.6	1832.6	19.4	1656.2	17.3	1470	Green
JHA 25×12.5×100×76.	25	12.5	100	76.34	24	1832.6	21.6	1656.2	19.2	1470	Green
JHA 25×12.5×125×61.	25	12.5	125	61.05	30	1832.6	27	1656.2	24	1470	Green
JHA 25×12.5×150×51	25	12.5	150	50.96	36	1832.6	32.4	1656.2	28.8	1470	Green
JHA 25×12.5×175×43.	25	12.5	175	43.71	42	1832.6	37.8	1656.2	33.6	1470	Green
JHA 25×12.5×200×38.	25	12.5	200	38.22	48	1832.6	43.2	1656.2	38.4	1470	Green
JHA 27×13.5×25×356.	27	13.5	25	356.72	6	2146.2	5.4	1930.6	4.8	1715	Green
JHA 27×13.5×30×298	27	13.5	30	298.02	7.2	2146.2	6.5	1930.6	5.8	1715	Green
JHA 27×13.5×35×256.	27	13.5	35	256.76	8.4	2146.2	7.6	1930.6	6.7	1715	Green
JHA 27×13.5×40×223.	27	13.5	40	223.54	9.6	2146.2	8.6	1930.6	7.7	1715	Green
JHA 27×13.5×45×198.	27	13.5	45	198.94	10.8	2146.2	9.7	1930.6	8.6	1715	Green
JHA 27×13.5×50×178.	27	13.5	50	178.85	12	2146.2	10.8	1930.6	9.6	1715	Green
JHA 27×13.5×55×161.	27	13.5	55	161.7	13.2	2146.2	11.9	1930.6	10.6	1715	Green
JHA 27×13.5×60×149	27	13.5	60	148.96	14.4	2146.2	13	1930.6	11.5	1715	Green
JHA 27×13.5×65×137.	27	13.5	65	137.2	15.6	2146.2	14	1930.6	12.5	1715	Green
JHA 27×13.5×70×127.	27	13.5	70	127.69	16.8	2146.2	15.1	1930.6	13.4	1715	Green
JHA 27×13.5×75×118.	27	13.5	75	118.58	18	2146.2	16.2	1930.6	14.4	1715	Green
JHA 27×13.5×80×111.	27	13.5	80	111.72	19.2	2146.2	17.3	1930.6	15.4	1715	Green
JHA 27×13.5×90×99.3	27	13.5	90	99.27	21.6	2146.2	19.4	1930.6	17.3	1715	Green
JHA 27×13.5×100×89.	27	13.5	100	89.38	24	2146.2	21.6	1930.6	19.2	1715	Green
JHA 27×13.5×125×71.	27	13.5	125	71.54	30	2146.2	27	1930.6	24	1715	Green
JHA 27×13.5×150×59.	27	13.5	150	59.58	36	2146.2	32.4	1930.6	28.8	1715	Green
JHA 27×13.5×175×51.	27	13.5	175	51.06	42	2146.2	37.8	1930.6	33.6	1715	Green
JHA 27×13.5×200×44.	27	13.5	200	44.69	48	2146.2	43.2	1930.6	38.4	1715	Green
JHA 30×15×25×441	30	15	25	441	6	2646	5.4	2381.4	4.8	2116.8	Green
JHA 30×15×30×367.5	30	15	30	367.5	7.2	2646	6.5	2381.4	5.8	2116.8	Green
JHA 30×15×35×316.2	30	15	35	316.15	8.4	2646	7.6	2381.4	6.7	2116.8	Green
JHA 30×15×40×275.6	30	15	40	275.58	9.6	2646	8.6	2381.4	7.7	2116.8	Green
JHA 30×15×45×245	30	15	45	245	10.8	2646	9.7	2381.4	8.6	2116.8	Green
JHA 30×15×50×220.5	30	15	50	220.5	12	2646	10.8	2381.4	9.6	2116.8	Green
JHA 30×15×55×199.9	30	15	55	199.92	13.2	2646	11.9	2381.4	10.6	2116.8	Green
JHA 30×15×60×183.8	30	15	60	183.75	14.4	2646	13	2381.4	11.5	2116.8	Green
JHA 30×15×65×169.5	30	15	65	169.54	15.6	2646	14	2381.4	12.5	2116.8	Green
JHA 30×15×70×157.5	30	15	70	157.49	16.8	2646	15.1	2381.4	13.4	2116.8	Green
JHA 30×15×75×147	30	15	75	147	18	2646	16.2	2381.4	14.4	2116.8	Green
JHA 30×15×80×137.8	30	15	80	137.79	19.2	2646	17.3	2381.4	15.4	2116.8	Green
JHA 30×15×90×122.5	30	15	90	122.5	21.6	2646	19.4	2381.4	17.3	2116.8	Green
JHA 30×15×100×110.3	30	15	100	110.25	24	2646	21.6	2381.4	19.2	2116.8	Green

Outer Diameter < Hole
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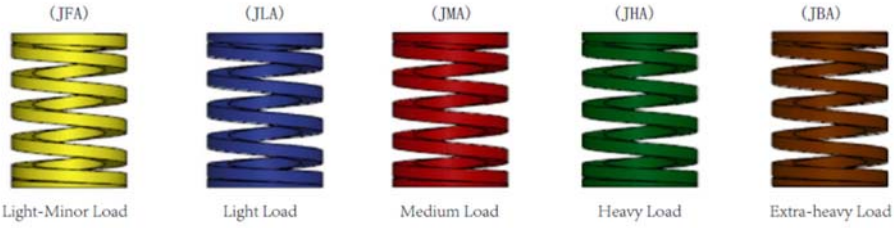
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JHA 30×15×125×88.2	30	15	125	88.2	30	2646	27	2381.4	24	2116.8	Green
JHA 30×15×150×73.5	30	15	150	73.5	36	2646	32.4	2381.4	28.8	2116.8	Green
JHA 30×15×175×62.9	30	15	175	62.92	42	2646	37.8	2381.4	33.6	2116.8	Green
JHA 30×15×200×55.1	30	15	200	55.08	48	2646	43.2	2381.4	38.4	2116.8	Green
JHA 35×17.5×35×428.	35	17.5	35	428.06	8.4	3596.6	7.6	3234	6.7	2871.4	Green
JHA 35×17.5×40×374.	35	17.5	40	374.56	9.6	3596.6	8.6	3234	7.7	2871.4	Green
JHA 35×17.5×45×333	35	17.5	45	333	10.8	3596.6	9.7	3234	8.6	2871.4	Green
JHA 35×17.5×50×299.	35	17.5	50	299.68	12	3596.6	10.8	3234	9.6	2871.4	Green
JHA 35×17.5×55×272.	35	17.5	55	272.44	13.2	3596.6	11.9	3234	10.6	2871.4	Green
JHA 35×17.5×60×249.	35	17.5	60	249.7	14.4	3596.6	13	3234	11.5	2871.4	Green
JHA 35×17.5×65×230.	35	17.5	65	230.59	15.6	3596.6	14	3234	12.5	2871.4	Green
JHA 35×17.5×70×214	35	17.5	70	214.03	16.8	3596.6	15.1	3234	13.4	2871.4	Green
JHA 35×17.5×75×199.	35	17.5	75	199.82	18	3596.6	16.2	3234	14.4	2871.4	Green
JHA 35×17.5×80×187.	35	17.5	80	187.28	19.2	3596.6	17.3	3234	15.4	2871.4	Green
JHA 35×17.5×90×166.	35	17.5	90	166.5	21.6	3596.6	19.4	3234	17.3	2871.4	Green
JHA 35×17.5×100×149	35	17.5	100	149.84	24	3596.6	21.6	3234	19.2	2871.4	Green
JHA 35×17.5×125×119	35	17.5	125	119.85	30	3596.6	27	3234	24	2871.4	Green
JHA 35×17.5×150×99.	35	17.5	150	99.86	36	3596.6	32.4	3234	28.8	2871.4	Green
JHA 35×17.5×175×85.	35	17.5	175	85.55	42	3596.6	37.8	3234	33.6	2871.4	Green
JHA 35×17.5×200×74.	35	17.5	200	74.87	48	3596.6	43.2	3234	38.4	2871.4	Green
JHA 40×20×40×490	40	20	40	490	9.6	4704	8.6	4233.6	7.7	3763.2	Green
JHA 40×20×45×435.5	40	20	45	435.51	10.8	4704	9.7	4233.6	8.6	3763.2	Green
JHA 40×20×50×392	40	20	50	392	12	4704	10.8	4233.6	9.6	3763.2	Green
JHA 40×20×55×356.3	40	20	55	356.33	13.2	4704	11.9	4233.6	10.6	3763.2	Green
JHA 40×20×60×326.6	40	20	60	326.63	14.4	4704	13	4233.6	11.5	3763.2	Green
JHA 40×20×65×301.6	40	20	65	301.55	15.6	4704	14	4233.6	12.5	3763.2	Green
JHA 40×20×70×280	40	20	70	279.99	16.8	4704	15.1	4233.6	13.4	3763.2	Green
JHA 40×20×75×281	40	20	75	280.97	18	4704	16.2	4233.6	14.4	3763.2	Green
JHA 40×20×80×245	40	20	80	245	19.2	4704	17.3	4233.6	15.4	3763.2	Green
JHA 40×20×90×217.8	40	20	90	217.76	21.6	4704	19.4	4233.6	17.3	3763.2	Green
JHA 40×20×100×196	40	20	100	196	24	4704	21.6	4233.6	19.2	3763.2	Green
JHA 40×20×125×156.8	40	20	125	156.8	30	4704	27	4233.6	24	3763.2	Green
JHA 40×20×150×130.6	40	20	150	130.63	36	4704	32.4	4233.6	28.8	3763.2	Green
JHA 40×20×175×111.9	40	20	175	111.92	42	4704	37.8	4233.6	33.6	3763.2	Green
JHA 40×20×200×98	40	20	200	98	48	4704	43.2	4233.6	38.4	3763.2	Green
JHA 40×20×225×87.1	40	20	225	87.12	54	4704	48.6	4233.6	43.2	3763.2	Green
JHA 40×20×250×78.4	40	20	250	78.4	60	4704	54	4233.6	48	3763.2	Green
JHA 40×20×275×71.3	40	20	275	71.25	66	4704	59.4	4233.6	52.8	3763.2	Green

Outer Diameter < Hole
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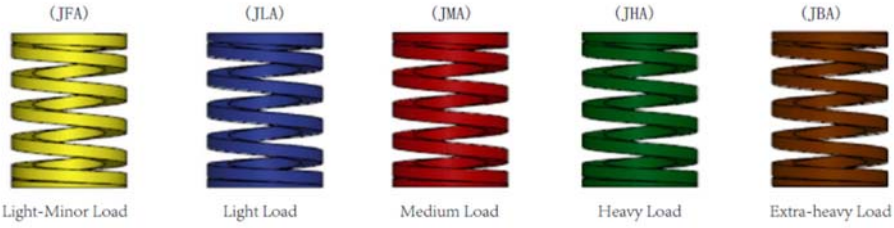

SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JHA 40×20×300×65.4	40	20	300	65.37	72	4704	64.8	4233.6	57.6	3763.2	Green
JHA 50×25×50×612.5	50	25	50	612.5	12	7350	10.8	6615	9.6	5880	Green
JHA 50×25×55×556.8	50	25	55	556.84	13.2	7350	11.9	6615	10.6	5880	Green
JHA 50×25×60×510.4	50	25	60	510.38	14.4	7350	13	6615	11.5	5880	Green
JHA 50×25×65×471.2	50	25	65	471.18	15.6	7350	14	6615	12.5	5880	Green
JHA 50×25×70×437.5	50	25	70	437.47	16.8	7350	15.1	6615	13.4	5880	Green
JHA 50×25×75×408.4	50	25	75	408.37	18	7350	16.2	6615	14.4	5880	Green
JHA 50×25×80×382.8	50	25	80	382.79	19.2	7350	17.3	6615	15.4	5880	Green
JHA 50×25×90×340.3	50	25	90	340.26	21.6	7350	19.4	6615	17.3	5880	Green
JHA 50×25×100×306.3	50	25	100	306.25	24	7350	21.6	6615	19.2	5880	Green
JHA 50×25×125×245	50	25	125	245	30	7350	27	6615	24	5880	Green
JHA 50×25×150×204.1	50	25	150	204.13	36	7350	32.4	6615	28.8	5880	Green
JHA 50×25×175×174.9	50	25	175	174.93	42	7350	37.8	6615	33.6	5880	Green
JHA 50×25×200×153.1	50	25	200	153.08	48	7350	43.2	6615	38.4	5880	Green
JHA 50×25×225×136.1	50	25	225	136.12	54	7350	48.6	6615	43.2	5880	Green
JHA 50×25×250×122.5	50	25	250	122.5	60	7350	54	6615	48	5880	Green
JHA 50×25×275×111.3	50	25	275	111.33	66	7350	59.4	6615	52.8	5880	Green
JHA 50×25×300×102	50	25	300	102.02	72	7350	64.8	6615	57.6	5880	Green
JHA 50×25×350×87.5	50	25	350	87.51	84	7350	75.6	6615	67.2	5880	Green
JHA 60×30×60×735	60	30	60	735	14.4	10584	13	9535.4	11.5	8467.2	Green
JHA 60×30×65×682.5	60	30	65	682.47	15.6	10584	14	9535.4	12.5	8467.2	Green
JHA 60×30×70×629.9	60	30	70	629.94	16.8	10584	15.1	9535.4	13.4	8467.2	Green
JHA 60×30×80×551.3	60	30	80	551.25	19.2	10584	17.3	9535.4	15.4	8467.2	Green
JHA 60×30×90×490	60	30	90	490	21.6	10584	19.4	9535.4	17.3	8467.2	Green
JHA 60×30×100×441	60	30	100	441	24	10584	21.6	9535.4	19.2	8467.2	Green
JHA 60×30×125×352.8	60	30	125	352.8	30	10584	27	9535.4	24	8467.2	Green
JHA 60×30×150×294	60	30	150	294	36	10584	32.4	9535.4	28.8	8467.2	Green
JHA 60×30×175×252	60	30	175	251.96	42	10584	37.8	9535.4	33.6	8467.2	Green
JHA 60×30×200×220.5	60	30	200	220.5	48	10584	43.2	9535.4	38.4	8467.2	Green
JHA 60×30×225×196	60	30	225	196	54	10584	48.6	9535.4	43.2	8467.2	Green
JHA 60×30×250×176.4	60	30	250	176.4	60	10584	54	9535.4	48	8467.2	Green
JHA 60×30×275×160.3	60	30	275	160.33	66	10584	59.4	9535.4	52.8	8467.2	Green
JHA 60×30×300×147	60	30	300	147	72	10584	64.8	9535.4	57.6	8467.2	Green
JHA 60×30×350×126	60	30	350	126.03	72	10584	75.6	9535.4	67.2	8467.2	Green
JHA 70×38.5×70×816.	70	38.5	70	816.63	16.8	13720	15.1	12348	13.4	10976	Green
JHA 70×38.5×80×714.	70	38.5	80	714.62	19.2	13720	17.2	12348	15.3	10976	Green
JHA 70×38.5×90×635.	70	38.5	90	635.14	21.6	13720	19.4	12348	17.3	10976	Green
JHA 70×38.5×100×571	70	38.5	100	571.63	24	13720	21.6	12348	19.2	10976	Green

Outer Diameter < Hole
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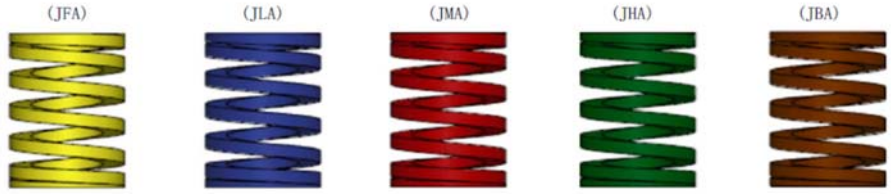
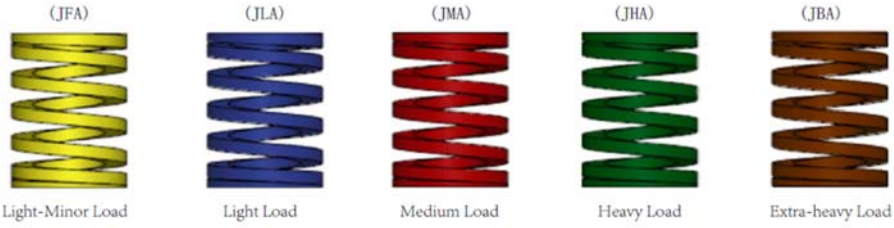


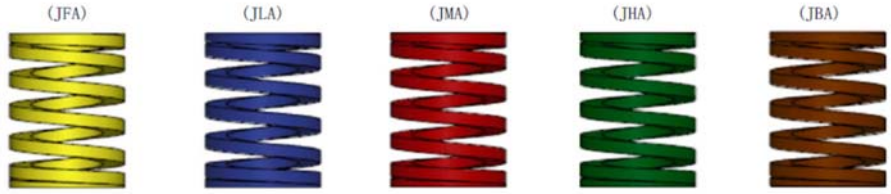
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JHA 70×38.5×125×457	70	38.5	125	457.37	30	13720	27	12348	24	10976	Green
JHA 70×38.5×150×381	70	38.5	150	381.12	36	13720	32.4	12348	28.8	10976	Green
JHA 70×38.5×175×326	70	38.5	175	326.63	42	13720	37.8	12348	33.6	10976	Green
JHA 70×38.5×200×285	70	38.5	200	285.87	48	13720	43.2	12348	38.4	10976	Green
JHA 70×38.5×225×254	70	38.5	225	254.11	54	13720	48.6	12348	43.2	10976	Green
JHA 70×38.5×250×228	70	38.5	250	228.63	60	13720	54	12348	48	10976	Green
JHA 70×38.5×275×207	70	38.5	275	207.86	66	13720	59.4	12348	52.8	10976	Green
JHA 70×38.5×300×190	70	38.5	300	190.51	72	13720	64.8	12348	57.6	10976	Green
JHA 70×38.5×350×163	70	38.5	350	163.37	84	13720	75.6	12348	67.2	10976	Green
JBA 8×4×10×166	8	4	10	166.01	2	343	1.8	303.8	1.6	254.8	Brown
JBA 8×4×15×110.7	8	4	15	110.74	3	343	2.7	303.8	2.4	254.8	Brown
JBA 8×4×20×83	8	4	20	83.01	4	343	3.6	303.8	3.2	254.8	Brown
JBA 8×4×25×66.4	8	4	25	66.44	5	343	4.5	303.8	4	254.8	Brown
JBA 8×4×30×55.4	8	4	30	55.37	6	343	5.4	303.8	4.8	254.8	Brown
JBA 8×4×35×47.4	8	4	35	47.43	7	343	6.3	303.8	5.6	254.8	Brown
JBA 8×4×40×41.6	8	4	40	41.55	8	343	7.2	303.8	6.4	254.8	Brown
JBA 8×4×45×37	8	4	45	36.95	9	343	8.1	303.8	7.2	254.8	Brown
JBA 8×4×50×33.2	8	4	50	33.22	10	343	9	303.8	8	254.8	Brown
JBA 8×4×55×30.2	8	4	55	30.18	11	343	9.9	303.8	8.8	254.8	Brown
JBA 8×4×60×27.6	8	4	60	27.64	12	343	10.8	303.8	9.6	254.8	Brown
JBA 8×4×65×25.6	8	4	65	25.58	13	343	11.7	303.8	10.4	254.8	Brown
JBA 8×4×70×23.7	8	4	70	23.72	14	343	12.6	303.8	11.2	254.8	Brown
JBA 8×4×75×22.2	8	4	75	22.15	15	343	13.5	303.8	12	254.8	Brown
JBA 8×4×80×20.8	8	4	80	20.78	16	343	14.4	303.8	12.8	254.8	Brown
JBA 8×4×90×18.4	8	4	90	18.42	18	343	16.2	303.8	14.4	254.8	Brown
JBA 10×5×10×223.2	10	5	10	223.24	2	441	1.8	401.8	1.6	352.8	Brown
JBA 10×5×15×148.9	10	5	15	148.86	3	441	2.7	401.8	2.4	352.8	Brown
JBA 10×5×20×110.3	10	5	20	110.25	4	441	3.6	401.8	3.2	352.8	Brown
JBA 10×5×25×88.2	10	5	25	88.2	5	441	4.5	401.8	4	352.8	Brown
JBA 10×5×30×73.5	10	5	30	73.5	6	441	5.4	401.8	4.8	352.8	Brown
JBA 10×5×35×63	10	5	35	63.01	7	441	6.3	401.8	5.6	352.8	Brown
JBA 10×5×40×55.2	10	5	40	55.17	8	441	7.2	401.8	6.4	352.8	Brown
JBA 10×5×45×49	10	5	45	49	9	441	8.1	401.8	7.2	352.8	Brown
JBA 10×5×50×44.1	10	5	50	44.1	10	441	9	401.8	8	352.8	Brown
JBA 10×5×55×40.1	10	5	55	40.08	11	441	9.9	401.8	8.8	352.8	Brown
JBA 10×5×60×36.8	10	5	60	36.75	12	441	10.8	401.8	9.6	352.8	Brown
JBA 10×5×65×34	10	5	65	34.01	13	441	11.7	401.8	10.4	352.8	Brown
JBA 10×5×70×31.5	10	5	70	31.46	14	441	12.6	401.8	11.2	352.8	Brown

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JBA 10×5×75×29.4	10	5	75	29.4	15	441	13.5	401.8	12	352.8	Brown
JBA 10×5×80×27.6	10	5	80	27.64	16	441	14.4	401.8	12.8	352.8	Brown
JBA 10×5×90×24.5	10	5	90	24.5	18	441	16.2	401.8	14.4	352.8	Brown
JBA 10×5×100×22.1	10	5	100	22.05	20	441	18	401.8	16	352.8	Brown
JBA 12×6×20×142.1	12	6	20	142.1	4	568.4	3.6	509.6	3.2	450.8	Brown
JBA 12×6×25×113.7	12	6	25	113.68	5	568.4	4.5	509.6	4	450.8	Brown
JBA 12×6×30×94.8	12	6	30	94.77	6	568.4	5.4	509.6	4.8	450.8	Brown
JBA 12×6×35×81.2	12	6	35	81.24	7	568.4	6.3	509.6	5.6	450.8	Brown
JBA 12×6×40×71.1	12	6	40	71.05	8	568.4	7.2	509.6	6.4	450.8	Brown
JBA 12×6×45×63.1	12	6	45	63.11	9	568.4	8.1	509.6	7.2	450.8	Brown
JBA 12×6×50×56.8	12	6	50	56.84	10	568.4	9	509.6	8	450.8	Brown
JBA 12×6×55×51.7	12	6	55	51.65	11	568.4	9.9	509.6	8.8	450.8	Brown
JBA 12×6×60×47.3	12	6	60	47.33	12	568.4	10.8	509.6	9.6	450.8	Brown
JBA 12×6×65×43.5	12	6	65	43.51	13	568.4	11.7	509.6	10.4	450.8	Brown
JBA 12×6×70×40.5	12	6	70	40.47	14	568.4	12.6	509.6	11.2	450.8	Brown
JBA 12×6×75×37.7	12	6	75	37.73	15	568.4	13.5	509.6	12	450.8	Brown
JBA 12×6×80×35.4	12	6	80	35.38	16	568.4	14.4	509.6	12.8	450.8	Brown
JBA 12×6×90×31.6	12	6	90	31.56	18	568.4	16.2	509.6	14.4	450.8	Brown
JBA 12×6×100×28.4	12	6	100	28.42	20	568.4	18	509.6	16	450.8	Brown
JBA 14×7×20×185.1	14	7	20	185.12	4	735	3.6	666.4	3.2	588	Brown
JBA 14×7×25×147	14	7	25	147	5	735	4.5	666.4	4	588	Brown
JBA 14×7×30×122.5	14	7	30	122.5	6	735	5.4	666.4	4.8	588	Brown
JBA 14×7×35×105.1	14	7	35	105.06	7	735	6.3	666.4	5.6	588	Brown
JBA 14×7×40×91.9	14	7	40	91.92	8	735	7.2	666.4	6.4	588	Brown
JBA 14×7×45×81.7	14	7	45	81.73	9	735	8.1	666.4	7.2	588	Brown
JBA 14×7×50×73.5	14	7	50	73.5	10	735	9	666.4	8	588	Brown
JBA 14×7×55×66.8	14	7	55	66.84	11	735	9.9	666.4	8.8	588	Brown
JBA 14×7×60×61.3	14	7	60	61.25	12	735	10.8	666.4	9.6	588	Brown
JBA 14×7×65×56.6	14	7	65	56.55	13	735	11.7	666.4	10.4	588	Brown
JBA 14×7×70×52.5	14	7	70	52.53	14	735	12.6	666.4	11.2	588	Brown
JBA 14×7×75×49	14	7	75	49	15	735	13.5	666.4	12	588	Brown
JBA 14×7×80×46	14	7	80	45.96	16	735	14.4	666.4	12.8	588	Brown
JBA 14×7×90×40.9	14	7	90	40.87	18	735	16.2	666.4	14.4	588	Brown
JBA 14×7×100×36.8	14	7	100	36.75	20	735	18	666.4	16	588	Brown
JBA 14×7×125×29.4	14	7	125	29.4	25	735	22.5	666.4	20	588	Brown
JBA 16×8×20×245	16	8	20	245	4	980	3.6	882	3.2	784	Brown
JBA 16×8×25×196	16	8	25	196	5	980	4.5	882	4	784	Brown
JBA 16×8×30×163.4	16	8	30	163.37	6	980	5.4	882	4.8	784	Brown

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JBA 16×8×35×140	16	8	35	140.04	7	980	6.3	882	5.6	784	Brown
JBA 16×8×40×122.5	16	8	40	122.5	8	980	7.2	882	6.4	784	Brown
JBA 16×8×45×108.9	16	8	45	108.88	9	980	8.1	882	7.2	784	Brown
JBA 16×8×50×98	16	8	50	98	10	980	9	882	8	784	Brown
JBA 16×8×55×89.1	16	8	55	89.08	11	980	9.9	882	8.8	784	Brown
JBA 16×8×60×81.7	16	8	60	81.73	12	980	10.8	882	9.6	784	Brown
JBA 16×8×65×75.4	16	8	65	75.36	13	980	11.7	882	10.4	784	Brown
JBA 16×8×70×70	16	8	70	69.97	14	980	12.6	882	11.2	784	Brown
JBA 16×8×75×65.4	16	8	75	65.37	15	980	13.5	882	12	784	Brown
JBA 16×8×80×61.3	16	8	80	61.25	16	980	14.4	882	12.8	784	Brown
JBA 16×8×90×54.5	16	8	90	54.49	18	980	16.2	882	14.4	784	Brown
JBA 16×8×100×49	16	8	100	49	20	980	18	882	16	784	Brown
JBA 16×8×125×39.2	16	8	125	39.2	25	980	22.5	882	20	784	Brown
JBA 18×9×20×307.6	18	9	20	307.62	4	1225	3.6	1107.4	3.2	980	Brown
JBA 18×9×25×245	18	9	25	245	5	1225	4.5	1107.4	4	980	Brown
JBA 18×9×30×204.2	18	9	30	204.23	6	1225	5.4	1107.4	4.8	980	Brown
JBA 18×9×35×175	18	9	35	175.03	7	1225	6.3	1107.4	5.6	980	Brown
JBA 18×9×40×153.2	18	9	40	153.17	8	1225	7.2	1107.4	6.4	980	Brown
JBA 18×9×45×136.1	18	9	45	136.12	9	1225	8.1	1107.4	7.2	980	Brown
JBA 18×9×50×122.5	18	9	50	122.5	10	1225	9	1107.4	8	980	Brown
JBA 18×9×55×111.4	18	9	55	111.43	11	1225	9.9	1107.4	8.8	980	Brown
JBA 18×9×60×102.1	18	9	60	102.12	12	1225	10.8	1107.4	9.6	980	Brown
JBA 18×9×65×94.3	18	9	65	94.28	13	1225	11.7	1107.4	10.4	980	Brown
JBA 18×9×70×87.5	18	9	70	87.51	14	1225	12.6	1107.4	11.2	980	Brown
JBA 18×9×75×81.7	18	9	75	81.73	15	1225	13.5	1107.4	12	980	Brown
JBA 18×9×80×76.6	18	9	80	76.64	16	1225	14.4	1107.4	12.8	980	Brown
JBA 18×9×90×68.1	18	9	90	68.11	18	1225	16.2	1107.4	14.4	980	Brown
JBA 18×9×100×61.4	18	9	100	61.35	20	1225	18	1107.4	16	980	Brown
JBA 18×9×125×49	18	9	125	49	25	1225	22.5	1107.4	20	980	Brown
JBA 20×10×20×392	20	10	20	392	4	1568	3.6	1411.2	3.2	1254.4	Brown
JBA 20×10×25×313.6	20	10	25	313.6	5	1568	4.5	1411.2	4	1254.4	Brown
JBA 20×10×30×261.4	20	10	30	261.37	6	1568	5.4	1411.2	4.8	1254.4	Brown
JBA 20×10×35×224	20	10	35	224.03	7	1568	6.3	1411.2	5.6	1254.4	Brown
JBA 20×10×40×196	20	10	40	196	8	1568	7.2	1411.2	6.4	1254.4	Brown
JBA 20×10×45×174.2	20	10	45	174.24	9	1568	8.1	1411.2	7.2	1254.4	Brown
JBA 20×10×50×156.8	20	10	50	156.8	10	1568	9	1411.2	8	1254.4	Brown
JBA 20×10×55×142.6	20	10	55	142.59	11	1568	9.9	1411.2	8.8	1254.4	Brown
JBA 20×10×60×130.6	20	10	60	130.63	12	1568	10.8	1411.2	9.6	1254.4	Brown

Outer Diameter < Hole
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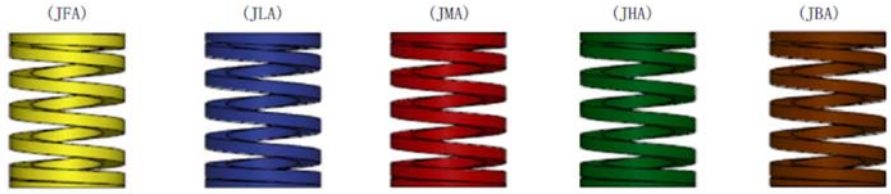
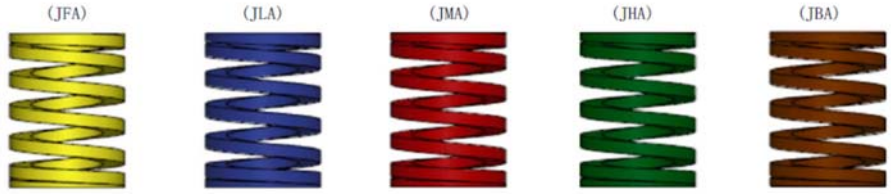
300K, 500K, 1000K mean times



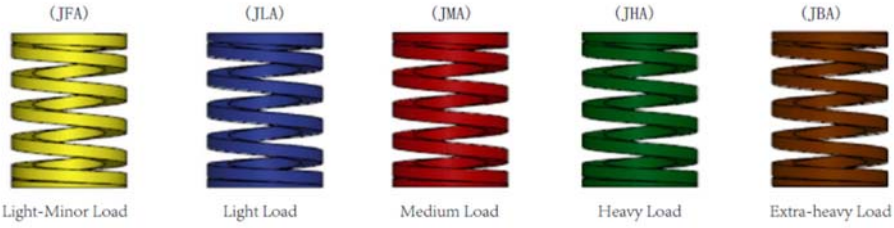
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JBA 20×10×65×120.6	20	10	65	120.64	13	1568	11.7	1411.2	10.4	1254.4	Brown
JBA 20×10×70×112	20	10	70	112.01	14	1568	12.6	1411.2	11.2	1254.4	Brown
JBA 20×10×75×104.6	20	10	75	104.57	15	1568	13.5	1411.2	12	1254.4	Brown
JBA 20×10×80×98	20	10	80	98	16	1568	14.4	1411.2	12.8	1254.4	Brown
JBA 20×10×90×87.1	20	10	90	87.12	18	1568	16.2	1411.2	14.4	1254.4	Brown
JBA 20×10×100×78.4	20	10	100	78.4	20	1568	18	1411.2	16	1254.4	Brown
JBA 20×10×125×62.7	20	10	125	62.72	25	1568	22.5	1411.2	20	1254.4	Brown
JBA 20×10×150×52.2	20	10	150	52.23	30	1568	27	1411.2	24	1254.4	Brown
JBA 20×10×175×44.8	20	10	175	44.79	35	1568	31.5	1411.2	28	1254.4	Brown
JBA 22×11×25×382.2	22	11	25	382.2	5	1911	4.5	1724.8	4	1528.8	Brown
JBA 22×11×30×318.5	22	11	30	318.5	6	1911	5.4	1724.8	4.8	1528.8	Brown
JBA 22×11×35×273	22	11	35	273.03	7	1911	6.3	1724.8	5.6	1528.8	Brown
JBA 22×11×40×238.9	22	11	40	238.92	8	1911	7.2	1724.8	6.4	1528.8	Brown
JBA 22×11×45×212.4	22	11	45	212.37	9	1911	8.1	1724.8	7.2	1528.8	Brown
JBA 22×11×50×191.1	22	11	50	191.1	10	1911	9	1724.8	8	1528.8	Brown
JBA 22×11×55×173.8	22	11	55	173.75	11	1911	9.9	1724.8	8.8	1528.8	Brown
JBA 22×11×60×159.3	22	11	60	159.25	12	1911	10.8	1724.8	9.6	1528.8	Brown
JBA 22×11×65×147	22	11	65	147	13	1911	11.7	1724.8	10.4	1528.8	Brown
JBA 22×11×70×136.5	22	11	70	136.51	14	1911	12.6	1724.8	11.2	1528.8	Brown
JBA 22×11×75×127.4	22	11	75	127.4	15	1911	13.5	1724.8	12	1528.8	Brown
JBA 22×11×80×119.5	22	11	80	119.46	16	1911	14.4	1724.8	12.8	1528.8	Brown
JBA 22×11×90×106.1	22	11	90	106.13	18	1911	16.2	1724.8	14.4	1528.8	Brown
JBA 22×11×100×95.6	22	11	100	95.55	20	1911	18	1724.8	16	1528.8	Brown
JBA 22×11×125×76.4	22	11	125	76.44	25	1911	22.5	1724.8	20	1528.8	Brown
JBA 22×11×150×63.7	22	11	150	63.7	30	1911	27	1724.8	24	1528.8	Brown
JBA 25×12.5×25×480.	25	12.5	25	480.2	5	2401	4.5	2165.8	4	1920.8	Brown
JBA 25×12.5×30×399.	25	12.5	30	399.84	6	2401	5.4	2165.8	4.8	1920.8	Brown
JBA 25×12.5×35×343	25	12.5	35	343	7	2401	6.3	2165.8	5.6	1920.8	Brown
JBA 25×12.5×40×299.	25	12.5	40	299.88	8	2401	7.2	2165.8	6.4	1920.8	Brown
JBA 25×12.5×45×266.	25	12.5	45	266.56	9	2401	8.1	2165.8	7.2	1920.8	Brown
JBA 25×12.5×50×240.	25	12.5	50	240.1	10	2401	9	2165.8	8	1920.8	Brown
JBA 25×12.5×55×218.	25	12.5	55	218.54	11	2401	9.9	2165.8	8.8	1920.8	Brown
JBA 25×12.5×60×199.	25	12.5	60	199.92	12	2401	10.8	2165.8	9.6	1920.8	Brown
JBA 25×12.5×65×184.	25	12.5	65	184.24	13	2401	11.7	2165.8	10.4	1920.8	Brown
JBA 25×12.5×70×171.	25	12.5	70	171.5	14	2401	12.6	2165.8	11.2	1920.8	Brown
JBA 25×12.5×75×159.	25	12.5	75	159.74	15	2401	13.5	2165.8	12	1920.8	Brown
JBA 25×12.5×80×149.	25	12.5	80	149.94	16	2401	14.4	2165.8	12.8	1920.8	Brown
JBA 25×12.5×90×133.	25	12.5	90	133.28	18	2401	16.2	2165.8	14.4	1920.8	Brown

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



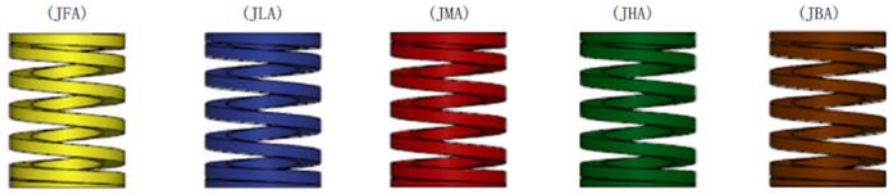
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JBA 25×12.5×100×12(	25	12.5	100	120.54	20	2401	18	2165.8	16	1920.8	Brown
JBA 25×12.5×125×96	25	12.5	125	96.04	25	2401	22.5	2165.8	20	1920.8	Brown
JBA 25×12.5×150×80.	25	12.5	150	80.07	30	2401	27	2165.8	24	1920.8	Brown
JBA 25×12.5×175×68.	25	12.5	175	68.6	35	2401	31.5	2165.8	28	1920.8	Brown
JBA 25×12.5×200×60.	25	12.5	200	60.07	40	2401	36	2165.8	32	1920.8	Brown
JBA 27×13.5×25×568.	27	13.5	25	568.4	5	2842	4.5	2557.8	4	2273.6	Brown
JBA 27×13.5×30×473.	27	13.5	30	473.63	6	2842	5.4	2557.8	4.8	2273.6	Brown
JBA 27×13.5×35×406	27	13.5	35	406.01	7	2842	6.3	2557.8	5.6	2273.6	Brown
JBA 27×13.5×40×355.	27	13.5	40	355.25	8	2842	7.2	2557.8	6.4	2273.6	Brown
JBA 27×13.5×45×315.	27	13.5	45	315.76	9	2842	8.1	2557.8	7.2	2273.6	Brown
JBA 27×13.5×50×284.	27	13.5	50	284.2	10	2842	9	2557.8	8	2273.6	Brown
JBA 27×13.5×55×258.	27	13.5	55	258.33	11	2842	9.9	2557.8	8.8	2273.6	Brown
JBA 27×13.5×60×236.	27	13.5	60	236.87	12	2842	10.8	2557.8	9.6	2273.6	Brown
JBA 27×13.5×65×218.	27	13.5	65	218.64	13	2842	11.7	2557.8	10.4	2273.6	Brown
JBA 27×13.5×70×203	27	13.5	70	202.96	14	2842	12.6	2557.8	11.2	2273.6	Brown
JBA 27×13.5×75×189.	27	13.5	75	189.43	15	2842	13.5	2557.8	12	2273.6	Brown
JBA 27×13.5×80×177.	27	13.5	80	177.67	16	2842	14.4	2557.8	12.8	2273.6	Brown
JBA 27×13.5×90×157.	27	13.5	90	157.88	18	2842	16.2	2557.8	14.4	2273.6	Brown
JBA 27×13.5×100×142	27	13.5	100	142.1	20	2842	18	2557.8	16	2273.6	Brown
JBA 27×13.5×125×113	27	13.5	125	113.68	25	2842	22.5	2557.8	20	2273.6	Brown
JBA 27×13.5×150×94.	27	13.5	150	94.77	30	2842	27	2557.8	24	2273.6	Brown
JBA 27×13.5×175×81.	27	13.5	175	81.14	35	2842	31.5	2557.8	28	2273.6	Brown
JBA 27×13.5×200×71.	27	13.5	200	71.05	40	2842	36	2557.8	32	2273.6	Brown
JBA 30×15×25×705.6	30	15	25	705.6	5	3528	4.5	3175.2	4	2822.4	Brown
JBA 30×15×30×588	30	15	30	588	6	3528	5.4	3175.2	4.8	2822.4	Brown
JBA 30×15×35×504	30	15	35	504.01	7	3528	6.3	3175.2	5.6	2822.4	Brown
JBA 30×15×40×441	30	15	40	441	8	3528	7.2	3175.2	6.4	2822.4	Brown
JBA 30×15×45×392	30	15	45	392	9	3528	8.1	3175.2	7.2	2822.4	Brown
JBA 30×15×50×352.8	30	15	50	352.8	10	3528	9	3175.2	8	2822.4	Brown
JBA 30×15×55×320.7	30	15	55	320.66	11	3528	9.9	3175.2	8.8	2822.4	Brown
JBA 30×15×60×294	30	15	60	294	12	3528	10.8	3175.2	9.6	2822.4	Brown
JBA 30×15×65×271.4	30	15	65	271.36	13	3528	11.7	3175.2	10.4	2822.4	Brown
JBA 30×15×70×252	30	15	70	251.96	14	3528	12.6	3175.2	11.2	2822.4	Brown
JBA 30×15×75×235.2	30	15	75	235.2	15	3528	13.5	3175.2	12	2822.4	Brown
JBA 30×15×80×220.5	30	15	80	220.5	16	3528	14.4	3175.2	12.8	2822.4	Brown
JBA 30×15×90×196	30	15	90	196	18	3528	16.2	3175.2	14.4	2822.4	Brown
JBA 30×15×100×176.4	30	15	100	176.4	20	3528	18	3175.2	16	2822.4	Brown
JBA 30×15×125×141.1	30	15	125	141.12	25	3528	22.5	3175.2	20	2822.4	Brown

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



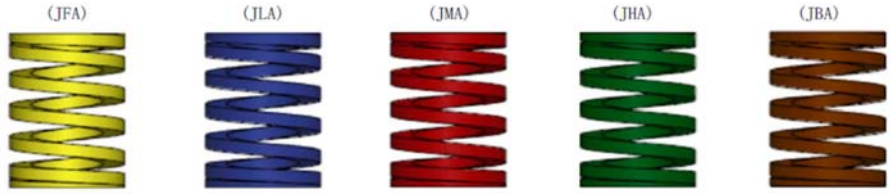
SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JBA 30×15×150×117.6	30	15	150	117.6	30	3528	27	3175.2	24	2822.4	Brown
JBA 30×15×175×100.7	30	15	175	100.74	35	3528	31.5	3175.2	28	2822.4	Brown
JBA 30×15×200×88.2	30	15	200	88.2	40	3528	36	3175.2	32	2822.4	Brown
JBA 35×17.5×35×685.	35	17.5	35	685.41	7	4802	6.3	4321.8	5.6	3841.6	Brown
JBA 35×17.5×40×600.	35	17.5	40	600.25	8	4802	7.2	4321.8	6.4	3841.6	Brown
JBA 35×17.5×45×533.	35	17.5	45	533.51	9	4802	8.1	4321.8	7.2	3841.6	Brown
JBA 35×17.5×50×480.	35	17.5	50	480.2	10	4802	9	4321.8	8	3841.6	Brown
JBA 35×17.5×55×436.	35	17.5	55	436.49	11	4802	9.9	4321.8	8.8	3841.6	Brown
JBA 35×17.5×60×400.	35	17.5	60	400.13	12	4802	10.8	4321.8	9.6	3841.6	Brown
JBA 35×17.5×65×369.	35	17.5	65	369.36	13	4802	11.7	4321.8	10.4	3841.6	Brown
JBA 35×17.5×70×343	35	17.5	70	343	14	4802	12.6	4321.8	11.2	3841.6	Brown
JBA 35×17.5×75×320.	35	17.5	75	320.17	15	4802	13.5	4321.8	12	3841.6	Brown
JBA 35×17.5×80×300.	35	17.5	80	300.08	16	4802	14.4	4321.8	12.8	3841.6	Brown
JBA 35×17.5×90×266.	35	17.5	90	266.76	18	4802	16.2	4321.8	14.4	3841.6	Brown
JBA 35×17.5×100×240	35	17.5	100	240.1	20	4802	18	4321.8	16	3841.6	Brown
JBA 35×17.5×125×192	35	17.5	125	192.08	25	4802	22.5	4321.8	20	3841.6	Brown
JBA 35×17.5×150×160	35	17.5	150	160.03	30	4802	27	4321.8	24	3841.6	Brown
JBA 35×17.5×175×137	35	17.5	175	137.2	35	4802	31.5	4321.8	28	3841.6	Brown
JBA 35×17.5×200×120	35	17.5	200	120.05	40	4802	36	4321.8	32	3841.6	Brown
JBA 40×20×40×784	40	20	40	784	8	6272	7.2	5644.8	6.4	5017.6	Brown
JBA 40×20×45×696.9	40	20	45	696.88	9	6272	8.1	5644.8	7.2	5017.6	Brown
JBA 40×20×50×627.2	40	20	50	627.2	10	6272	9	5644.8	8	5017.6	Brown
JBA 40×20×55×570.2	40	20	55	570.16	11	6272	9.9	5644.8	8.8	5017.6	Brown
JBA 40×20×60×522.6	40	20	60	522.63	12	6272	10.8	5644.8	9.6	5017.6	Brown
JBA 40×20×65×482.5	40	20	65	482.45	13	6272	11.7	5644.8	10.4	5017.6	Brown
JBA 40×20×70×448	40	20	70	447.96	14	6272	12.6	5644.8	11.2	5017.6	Brown
JBA 40×20×75×418.2	40	20	75	418.17	15	6272	13.5	5644.8	12	5017.6	Brown
JBA 40×20×80×392	40	20	80	392	16	6272	14.4	5644.8	12.8	5017.6	Brown
JBA 40×20×90×348.4	40	20	90	348.39	18	6272	16.2	5644.8	14.4	5017.6	Brown
JBA 40×20×100×313.6	40	20	100	313.6	20	6272	18	5644.8	16	5017.6	Brown
JBA 40×20×125×250.9	40	20	125	250.88	25	6272	22.5	5644.8	20	5017.6	Brown
JBA 40×20×150×209	40	20	150	209.03	30	6272	27	5644.8	24	5017.6	Brown
JBA 40×20×175×179.1	40	20	175	179.14	35	6272	31.5	5644.8	28	5017.6	Brown
JBA 40×20×200×156.8	40	20	200	156.8	40	6272	36	5644.8	32	5017.6	Brown
JBA 40×20×225×139.4	40	20	225	139.36	45	6272	40.5	5644.8	36	5017.6	Brown
JBA 40×20×250×125.4	40	20	250	125.44	50	6272	45	5644.8	40	5017.6	Brown
JBA 40×20×275×114.1	40	20	275	114.07	55	6272	49.5	5644.8	44	5017.6	Brown
JBA 40×20×300×104.6	40	20	300	104.57	60	6272	54	5644.8	48	5017.6	Brown

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JBA 50×25×50×980	50	25	50	980	10	9800	9	8820	8	7840	Brown
JBA 50×25×55×890.9	50	25	55	890.92	11	9800	9.9	8820	8.8	7840	Brown
JBA 50×25×60×816.6	50	25	60	816.63	12	9800	10.8	8820	9.6	7840	Brown
JBA 50×25×65×753.8	50	25	65	753.82	13	9800	11.7	8820	10.4	7840	Brown
JBA 50×25×70×699.9	50	25	70	699.92	14	9800	12.6	8820	11.2	7840	Brown
JBA 50×25×75×653.4	50	25	75	653.37	15	9800	13.5	8820	12	7840	Brown
JBA 50×25×80×612.5	50	25	80	612.5	16	9800	14.4	8820	12.8	7840	Brown
JBA 50×25×90×544.4	50	25	90	544.39	18	9800	16.2	8820	14.4	7840	Brown
JBA 50×25×100×490	50	25	100	490	20	9800	18	8820	16	7840	Brown
JBA 50×25×125×392	50	25	125	392	25	9800	22.5	8820	20	7840	Brown
JBA 50×25×150×326.6	50	25	150	326.63	30	9800	27	8820	24	7840	Brown
JBA 50×25×175×280	50	25	175	279.99	35	9800	31.5	8820	28	7840	Brown
JBA 50×25×200×245	50	25	200	245	40	9800	36	8820	32	7840	Brown
JBA 50×25×225×217.8	50	25	225	217.76	45	9800	40.5	8820	36	7840	Brown
JBA 50×25×250×196	50	25	250	196	50	9800	45	8820	40	7840	Brown
JBA 50×25×275×178.2	50	25	275	178.16	55	9800	49.5	8820	44	7840	Brown
JBA 50×25×300×163.3	50	25	300	163.27	60	9800	54	8820	48	7840	Brown
JBA 50×25×350×140	50	25	350	140.04	70	9800	63	8820	56	7840	Brown
JBA 60×30×60×1176	60	30	60	1176	12	14112	10.8	12700.8	9.6	11289.6	Brown
JBA 60×30×70×1008	60	30	70	1008.03	14	14112	12.6	12700.8	11.2	11289.6	Brown
JBA 60×30×80×882	60	30	80	882	16	14112	14.4	12700.8	12.8	11289.6	Brown
JBA 60×30×90×784	60	30	90	784	18	14112	16.2	12700.8	14.4	11289.6	Brown
JBA 60×30×100×705.6	60	30	100	705.6	20	14112	18	12700.8	16	11289.6	Brown
JBA 60×30×125×564.5	60	30	125	564.48	25	14112	22.5	12700.8	20	11289.6	Brown
JBA 60×30×150×470.4	60	30	150	470.4	30	14112	27	12700.8	24	11289.6	Brown
JBA 60×30×175×403.2	60	30	175	403.17	35	14112	31.5	12700.8	28	11289.6	Brown
JBA 60×30×200×352.8	60	30	200	352.8	40	14112	36	12700.8	32	11289.6	Brown
JBA 60×30×225×313.6	60	30	225	313.6	45	14112	40.5	12700.8	36	11289.6	Brown
JBA 60×30×250×282.2	60	30	250	282.24	50	14112	45	12700.8	40	11289.6	Brown
JBA 60×30×275×256.6	60	30	275	256.56	55	14112	49.5	12700.8	44	11289.6	Brown
JBA 60×30×300×235.2	60	30	300	235.2	60	14112	54	12700.8	48	11289.6	Brown
JBA 60×30×350×201.6	60	30	350	201.59	70	14112	63	12700.8	56	11289.6	Brown
JBA 70×38.5×70×1400	70	38.5	70	1400.03	14	19600	12.6	17640	11.2	15680	Brown
JBA 70×38.5×80×1225	70	38.5	80	1225	16	19600	14.4	17640	12.8	15680	Brown
JBA 70×38.5×90×1088	70	38.5	90	1088.88	18	19600	16.2	17640	14.4	15680	Brown
JBA 70×38.5×100×980	70	38.5	100	980	20	19600	18	17640	16	15680	Brown
JBA 70×38.5×125×784	70	38.5	125	784	25	19600	22.5	17640	20	15680	Brown
JBA 70×38.5×150×653	70	38.5	150	653.37	30	19600	27	17640	24	15680	Brown

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times



SPECS	Hole (mm)	Road (mm)	Free Length (mm)	Rate (N/mm)	300K Def (mm)	Load (N)	500K Def (mm)	Load (N)	1000K Def (mm)	Load (N)	color
JBA 70×38.5×175×560	70	38.5	175	559.97	35	19600	31.5	17640	28	15680	Brown
JBA 70×38.5×200×490	70	38.5	200	490	40	19600	36	17640	32	15680	Brown
JBA 70×38.5×225×435	70	38.5	225	435.51	45	19600	40.5	17640	36	15680	Brown
JBA 70×38.5×250×392	70	38.5	250	392	50	19600	45	17640	40	15680	Brown
JBA 70×38.5×275×356	70	38.5	275	356.33	55	19600	49.5	17640	44	15680	Brown
JBA 70×38.5×300×326	70	38.5	300	326.63	60	19600	54	17640	48	15680	Brown
JBA 70×38.5×350×280	70	38.5	350	279.99	70	19600	63	17640	56	15680	Brown

Outer Diameter < Hole
Inner Diameter > Road
Load= Rate X Def
300K, 500K, 1000K mean times