

JIS B 5012 SERIES

EXTRA LIGHT DUTY JIS COLOUR CODED **YELLOW**

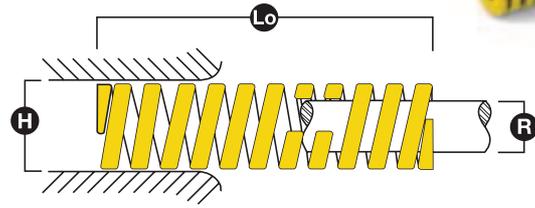
CHARGE SUPER LÉGÈRE JIS COULEUR **JAUNE**

CARGA EXTRA LIGERA **AMARILLO** CÓDIGO COLOR SEGÚN JIS

EXTRALEICHTER BELASTUNG JIS FARBUNTERLEGTES **GELB**

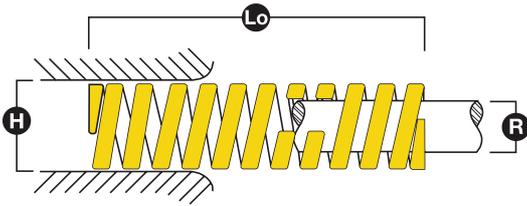
CARICO EXTRA PESANTE CODICE CROMATICO JIS **GIALLO**

CARGA EXTRA LEVE COR DA SÉRIE JIS **AMARELO**



H	R	Lo	Part No.	P/f	L ₁ 40%		L ₂ 45%		L ₃ 50%	
					N	D	N	D	N	D
8	4	10	ASF 8 X 10	15.30	59	4.0	69	4.5	79	5.0
		15	ASF 8 X 15	10.20		6.0		6.8		7.5
		20	ASF 8 X 20	7.65		8.0		9.0		10.0
		25	ASF 8 X 25	6.08		10.0		11.2		12.5
		30	ASF 8 X 30	5.10		12.0		13.5		15.0
		35	ASF 8 X 35	4.32		14.0		15.7		17.5
		40	ASF 8 X 40	3.83		16.0		18.0		20.0
		45	ASF 8 X 45	3.43		18.0		20.2		22.5
		50	ASF 8 X 50	3.04		20.0		22.5		25.0
		55	ASF 8 X 55	2.75		22.0		24.7		27.5
		60	ASF 8 X 60	2.55	24.0	27.0	30.0			
10	5	20	ASF 10 X 20	9.81	79	8.0	88	9.0	98	10.0
		25	ASF 10 X 25	7.85		10.0		11.2		12.5
		30	ASF 10 X 30	6.57		12.0		13.5		15.0
		35	ASF 10 X 35	5.59		14.0		15.7		17.5
		40	ASF 10 X 40	4.91		16.0		18.0		20.0
		45	ASF 10 X 45	4.32		18.0		20.2		22.5
		50	ASF 10 X 50	3.92		20.0		22.5		25.0
		55	ASF 10 X 55	3.53		22.0		24.7		27.5
		60	ASF 10 X 60	3.24		24.0		27.0		30.0
		65	ASF 10 X 65	3.04		26.0		29.2		32.5
		70	ASF 10 X 70	2.84	28.0	31.5	35.0			
		75	ASF 10 X 75	2.65	30.0	33.7	37.5			
		80	ASF 10 X 80	2.45	32.0	36.0	40.0			
12	6	20	ASF 12 X 20	13.73	108	8.0	123	9.0	137	10.0
		25	ASF 12 X 25	10.99		10.0		11.2		12.5
		30	ASF 12 X 30	9.12		12.0		13.5		15.0
		35	ASF 12 X 35	7.85		14.0		15.7		17.5
		40	ASF 12 X 40	6.87		16.0		18.0		20.0
		45	ASF 12 X 45	6.08		18.0		20.2		22.5
		50	ASF 12 X 50	5.49		20.0		22.5		25.0
		55	ASF 12 X 55	5.00		22.0		24.7		27.5
		60	ASF 12 X 60	4.61		24.0		27.0		30.0
		65	ASF 12 X 65	4.22		26.0		29.2		32.5
		70	ASF 12 X 70	3.92	28.0	31.5	35.0			
		75	ASF 12 X 75	3.63	30.0	33.7	37.5			
		80	ASF 12 X 80	3.43	32.0	36.0	40.0			
14	7	25	ASF 14 X 25	14.13	142	10.0	157	11.2	177	12.5
		30	ASF 14 X 30	11.77		12.0		13.5		15.0
		35	ASF 14 X 35	10.10		14.0		15.7		17.5
		40	ASF 14 X 40	8.83		16.0		18.0		20.0
		45	ASF 14 X 45	7.85		18.0		20.2		22.5
		50	ASF 14 X 50	7.06		20.0		22.5		25.0
		55	ASF 14 X 55	6.38		22.0		24.7		27.5
		60	ASF 14 X 60	5.89		24.0		27.0		30.0
		65	ASF 14 X 65	5.40		26.0		29.2		32.5
		70	ASF 14 X 70	5.00		28.0		31.5		35.0
		75	ASF 14 X 75	4.71	30.0	33.7	37.5			
		80	ASF 14 X 80	4.41	32.0	36.0	40.0			
		90	ASF 14 X 90	3.92	36.0	40.5	45.0			

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H	R	Lo	Part No.	P/f	L ₁ 40%		L ₂ 45%		L ₃ 50%	
					N	D	N	D	N	D
16	8	25	ASF 16 X 25	16.48	167	10.0	186	11.2	206	12.5
		30	ASF 16 X 30	13.73		12.0		13.5		15.0
		35	ASF 16 X 35	11.77		14.0		15.7		17.5
		40	ASF 16 X 40	10.30		16.0		18.0		20.0
		45	ASF 16 X 45	9.22		18.0		20.2		22.5
		50	ASF 16 X 50	8.24		20.0		22.5		25.0
		55	ASF 16 X 55	7.55		22.0		24.7		27.5
		60	ASF 16 X 60	6.87		24.0		27.0		30.0
		65	ASF 16 X 65	6.38		26.0		29.2		32.5
		70	ASF 16 X 70	5.89		28.0		31.5		35.0
		75	ASF 16 X 75	5.49		30.0		33.7		37.5
		80	ASF 16 X 80	5.20		32.0		36.0		40.0
		90	ASF 16 X 90	4.61	36.0	40.5	45.0			
		100	ASF 16 X 100	4.12	40.0	45.0	50.0			
18	9	25	ASF 18 X 25	20.40	206	10.0	256	11.2	255	12.5
		30	ASF 18 X 30	17.07		12.0		13.5		15.0
		35	ASF 18 X 35	14.62		14.0		15.7		17.5
		40	ASF 18 X 40	12.75		16.0		18.0		20.0
		45	ASF 18 X 45	11.38		18.0		20.2		22.5
		50	ASF 18 X 50	10.20		20.0		22.5		25.0
		55	ASF 18 X 55	9.32		22.0		24.7		27.5
		60	ASF 18 X 60	8.53		24.0		27.0		30.0
		65	ASF 18 X 65	7.85		26.0		29.2		32.5
		70	ASF 18 X 70	7.26		28.0		31.5		35.0
		75	ASF 18 X 75	6.87		30.0		33.7		37.5
		80	ASF 18 X 80	6.38		32.0		36.0		40.0
		90	ASF 18 X 90	5.69	36.0	40.5	45.0			
		100	ASF 18 X 100	5.10	40.0	45.0	50.0			
20	11	25	ASF 20 X 25	25.11	255	10.0	284	11.2	314	12.5
		30	ASF 20 X 30	20.90		12.0		13.5		15.0
		35	ASF 20 X 35	17.95		14.0		15.7		17.5
		40	ASF 20 X 40	15.70		16.0		18.0		20.0
		45	ASF 20 X 45	13.93		18.0		20.2		22.5
		50	ASF 20 X 50	12.56		20.0		22.5		25.0
		55	ASF 20 X 55	11.38		22.0		24.7		27.5
		60	ASF 20 X 60	10.50		24.0		27.0		30.0
		65	ASF 20 X 65	9.61		26.0		29.2		32.5
		70	ASF 20 X 70	8.93		28.0		31.5		35.0
		75	ASF 20 X 75	8.34		30.0		33.7		37.5
		80	ASF 20 X 80	7.85		32.0		36.0		40.0
		90	ASF 20 X 90	6.97		36.0		40.5		45.0
		100	ASF 20 X 100	6.28		40.0		45.0		50.0
				125		ASF 20 X 125		5.00		50.0
		150	ASF 20 X 150	4.22	60.0	67.5	75.0			

JIS



JIS B 5012 SERIES

EXTRA LIGHT DUTY JIS COLOUR CODED **YELLOW**

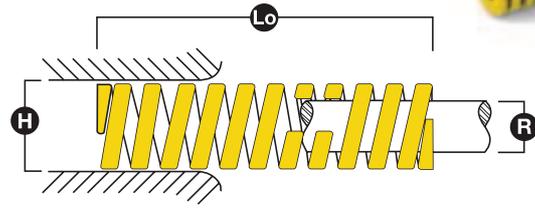
CHARGE SUPER LÉGÈRE JIS COULEUR **JAUNE**

CARGA EXTRA LIGERA **AMARILLO** CÓDIGO COLOR SEGÚN JIS

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CARICO EXTRA PESANTE CODICE CROMATICO JIS **GIALLO**

CARGA EXTRA LEVE COR DA SÉRIE JIS **AMARELO**

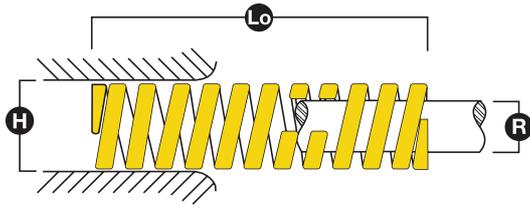


H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
22	11	25	ASF 22 X 25	31.39	314	10.0	353	11.2	392	12.5
		30	ASF 22 X 30	26.19		12.0		13.5		15.0
		35	ASF 22 X 35	22.46		14.0		15.7		17.5
		40	ASF 22 X 40	19.62		16.0		18.0		20.0
		45	ASF 22 X 45	17.46		18.0		20.2		22.5
		50	ASF 22 X 50	15.70		20.0		22.5		25.0
		55	ASF 22 X 55	14.32		22.0		24.7		27.5
		60	ASF 22 X 60	13.05		24.0		27.0		30.0
		65	ASF 22 X 65	12.07		26.0		29.2		32.5
		70	ASF 22 X 70	11.18		28.0		31.5		35.0
		75	ASF 22 X 75	10.50		30.0		33.7		37.5
		80	ASF 22 X 80	9.81		32.0		36.0		40.0
		90	ASF 22 X 90	8.73		36.0		40.5		45.0
		100	ASF 22 X 100	7.85		40.0		45.0		50.0
125	ASF 22 X 125	6.28	50.0	56.2	62.5					
150	ASF 22 X 150	5.20	60.0	67.5	75.0					
25	13.5	25	ASF 25 X 25	39.24	392	10.0	441	11.2	450	12.5
		30	ASF 25 X 30	32.67		12.0		13.5		15.0
		35	ASF 25 X 35	27.96		14.0		15.7		17.5
		40	ASF 25 X 40	24.53		16.0		18.0		20.0
		45	ASF 25 X 45	21.78		18.0		20.2		22.5
		50	ASF 25 X 50	19.62		20.0		22.5		25.0
		55	ASF 25 X 55	17.85		22.0		24.7		27.5
		60	ASF 25 X 60	16.38		24.0		27.0		30.0
		65	ASF 25 X 65	15.11		26.0		29.2		32.5
		70	ASF 25 X 70	14.03		28.0		31.5		35.0
		75	ASF 25 X 75	13.05		30.0		33.7		37.5
		80	ASF 25 X 80	12.26		32.0		36.0		40.0
		90	ASF 25 X 90	10.89		36.0		40.5		45.0
		100	ASF 25 X 100	9.81		40.0		45.0		50.0
125	ASF 25 X 125	7.85	50.0	56.2	62.5					
150	ASF 25 X 150	6.57	60.0	67.5	75.0					
175	ASF 25 X 175	5.59	70.0	78.7	87.5					
27	13.5	25	ASF 27 X 25	47.09	471	10.0	530	11.2	588	12.5
		30	ASF 27 X 30	39.24		12.0		13.5		15.0
		35	ASF 27 X 35	33.65		14.0		15.7		17.5
		40	ASF 27 X 40	29.43		16.0		18.0		20.0
		45	ASF 27 X 45	26.19		18.0		20.2		22.5
		50	ASF 27 X 50	23.54		20.0		22.5		25.0
		55	ASF 27 X 55	21.39		22.0		24.7		27.5
		60	ASF 27 X 60	19.62		24.0		27.0		30.0
		65	ASF 27 X 65	18.15		26.0		29.2		32.5
		70	ASF 27 X 70	16.78		28.0		31.5		35.0
		75	ASF 27 X 75	15.70		30.0		33.7		37.5
		80	ASF 27 X 80	14.72		32.0		36.0		40.0
		90	ASF 27 X 90	13.05		36.0		40.5		45.0
		100	ASF 27 X 100	11.77		40.0		45.0		50.0
125	ASF 27 X 125	9.42	50.0	56.2	62.5					
150	ASF 27 X 150	7.85	60.0	67.5	75.0					
175	ASF 27 X 175	6.77	70.0	78.7	87.5					

JIS



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H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
30	16	25	ASF 30 X 25	56.90	569	10.0	637	11.2	706	12.5
		30	ASF 30 X 30	47.09		12.0		13.5		15.0
		35	ASF 30 X 35	40.52		14.0		15.7		17.5
		40	ASF 30 X 40	35.32		16.0		18.0		20.0
		45	ASF 30 X 45	31.49		18.0		20.2		22.5
		50	ASF 30 X 50	28.25		20.0		22.5		25.0
		55	ASF 30 X 55	25.80		22.0		24.7		27.5
		60	ASF 30 X 60	23.54		24.0		27.0		30.0
		65	ASF 30 X 65	21.78		26.0		29.2		32.5
		70	ASF 30 X 70	20.11		28.0		31.5		35.0
		75	ASF 30 X 75	18.93		30.0		33.7		37.5
		80	ASF 30 X 80	17.66		32.0		36.0		40.0
		90	ASF 30 X 90	15.70		36.0		40.5		45.0
		100	ASF 30 X 100	14.13		40.0		45.0		50.0
		125	ASF 30 X 125	11.28		50.0		56.2		62.5
150	ASF 30 X 150	9.42	60.0	67.5	75.0					
175	ASF 30 X 175	8.04	70.0	78.7	87.5					
200	ASF 30 X 200	7.06	80.0	90.0	100.0					
35	19	40	ASF 35 X 40	48.07	765	16.0	963	18.0	961	20.0
		45	ASF 35 X 45	42.77		18.0		20.2		22.5
		50	ASF 35 X 50	38.46		20.0		22.5		25.0
		55	ASF 35 X 55	34.92		22.0		24.7		27.5
		60	ASF 35 X 60	31.98		24.0		27.0		30.0
		65	ASF 35 X 65	29.63		26.0		29.2		32.5
		70	ASF 35 X 70	27.47		28.0		31.5		35.0
		75	ASF 35 X 75	25.60		30.0		33.7		37.5
		80	ASF 35 X 80	24.03		32.0		36.0		40.0
		90	ASF 35 X 90	21.29		36.0		40.5		45.0
		100	ASF 35 X 100	19.23		40.0		45.0		50.0
		125	ASF 35 X 125	15.40		50.0		56.2		62.5
150	ASF 35 X 150	12.75	60.0	67.5	75.0					
175	ASF 35 X 175	10.99	70.0	78.7	87.5					
200	ASF 35 X 200	9.61	80.0	90.0	100.0					
40	22	40	ASF 40 X 40	62.59	1,000	16.0	1,128	18.0	1,255	20.0
		50	ASF 40 X 50	50.23		20.0		22.5		25.0
		60	ASF 40 X 60	41.79		24.0		27.0		30.0
		70	ASF 40 X 70	35.81		28.0		31.5		35.0
		80	ASF 40 X 80	31.39		32.0		36.0		40.0
		90	ASF 40 X 90	27.86		36.0		40.5		45.0
		100	ASF 40 X 100	25.11		40.0		45.0		50.0
		125	ASF 40 X 125	20.01		50.0		56.2		62.5
		150	ASF 40 X 150	16.68		60.0		67.5		75.0
		175	ASF 40 X 175	14.32		70.0		78.7		87.5
		200	ASF 40 X 200	12.56		80.0		90.0		100.0
		250	ASF 40 X 250	10.01		100.0		112.5		125.0

JIS B 5012 SERIES

EXTRA LIGHT DUTY JIS COLOUR CODED **YELLOW**

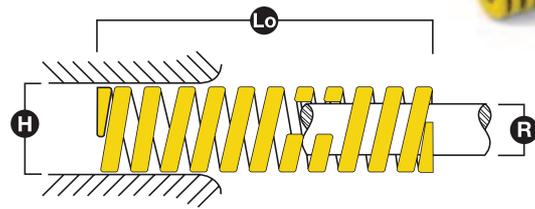
CHARGE SUPER LÉGÈRE JIS COULEUR **JAUNE**

CARGA EXTRA LIGERA **AMARILLO** CÓDIGO COLOR SEGÚN JIS

EXTRALEICHTER BELASTUNG JIS FARBUNTERLEGTES **GELB**

CARICO EXTRA PESANTE CODICE CROMATICO JIS **GIALLO**

CARGA EXTRA LEVE COR DA SÉRIE JIS **AMARELO**



H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
50	25	50	ASF 50 X 50	78.48	1,569	20.0	1,765	22.5	1,961	25.0
		60	ASF 50 X 60	65.33		24.0		27.0		30.0
		70	ASF 50 X 70	56.02		28.0		31.5		35.0
		80	ASF 50 X 80	49.05		32.0		36.0		40.0
		90	ASF 50 X 90	43.56		36.0		40.5		45.0
		100	ASF 50 X 100	39.24		40.0		45.0		50.0
		125	ASF 50 X 125	31.39		50.0		56.2		63.5
		150	ASF 50 X 150	26.09		60.0		67.5		75.0
		175	ASF 50 X 175	22.37		70.0		78.7		87.5
		200	ASF 50 X 200	19.62		80.0		90.0		100.0
		250	ASF 50 X 250	15.70		100.0		112.5		125.0
		300	ASF 50 X 300	13.05		120.0		135.0		150.0
		350	ASF 50 X 350	11.18		140.0		157.5		175.0
		400	ASF 50 X 400	9.81		160.0		180.0		200.0
450	ASF 50 X 450	8.73	180.0	202.5	225.0					
500	ASF 50 X 500	7.85	200.0	225.0	250.0					
60	33	60	ASF 60 X 60	94.08	2,260	24.0	2,540	27.0	2,820	30.0
		70	ASF 60 X 70	80.64		28.0		31.5		35.0
		80	ASF 60 X 80	70.53		32.0		36.0		40.0
		90	ASF 60 X 90	62.78		36.0		40.5		45.0
		100	ASF 60 X 100	56.51		40.0		45.0		50.0
		125	ASF 60 X 125	45.13		50.0		56.2		62.5
		150	ASF 60 X 150	37.67		60.0		67.5		75.0
		175	ASF 60 X 175	32.27		70.0		78.7		87.5
		200	ASF 60 X 200	28.25		80.0		90.0		100.0
		250	ASF 60 X 250	22.56		100.0		112.5		125.0
		300	ASF 60 X 300	18.84		120.0		135.0		150.0
		350	ASF 60 X 350	16.19		140.0		157.5		175.0
		400	ASF 60 X 400	14.13		160.0		180.0		200.0
		450	ASF 60 X 450	12.56		180.0		202.5		225.0
500	ASF 60 X 500	11.28	200.0	225.0	250.0					



NOTES

A series of horizontal grey lines providing a template for notes.

JIS B 5012 SERIES



LIGHT DUTY JIS COLOUR CODED **BLUE**

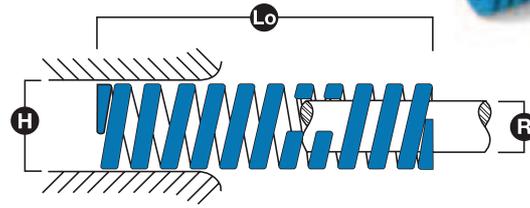
CHARGE LÉGÈRE JIS COULEUR **BLEUE**

CARGA LIGERA **AZUL** CÓDIGO COLOR SEGÚN JIS

LEICHTER BELASTUNG JIS FARBUNTERLEGTES **BLAU**

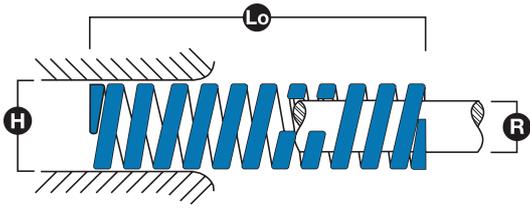
CARICO LEGGERO CODICE CROMATICO JIS **BLU**

CARGA LEVE COR DA SÉRIE JIS **AZUL**



H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
8	4	10	ASL 8 X 10	24.53	79	3.2	88	3.6	98	4.0
		15	ASL 8 X 15	16.38		4.8		5.4		6.0
		20	ASL 8 X 20	12.26		6.4		7.2		8.0
		25	ASL 8 X 25	9.81		8.0		9.0		10.0
		30	ASL 8 X 30	8.14		9.6		10.8		12.0
		35	ASL 8 X 35	6.97		11.2		12.6		14.0
		40	ASL 8 X 40	6.18		12.8		14.4		16.0
		45	ASL 8 X 45	5.49		14.4		16.2		18.0
		50	ASL 8 X 50	4.91		16.0		18.0		20.0
		55	ASL 8 X 55	4.51		17.6		19.8		22.0
		60	ASL 8 X 60	4.12	19.2	21.6	24.0			
10	5	20	ASL 10 X 20	17.76	113	6.4	128	7.2	142	8.0
		25	ASL 10 X 25	14.22		8.0		9.0		10.0
		30	ASL 10 X 30	11.87		9.6		10.8		12.0
		35	ASL 10 X 35	10.10		11.2		12.6		14.0
		40	ASL 10 X 40	8.83		12.8		14.4		16.0
		45	ASL 10 X 45	7.85		14.4		16.2		18.0
		50	ASL 10 X 50	7.16		16.0		18.0		20.0
		55	ASL 10 X 55	6.47		17.6		19.8		22.0
		60	ASL 10 X 60	5.89		19.2		21.6		24.0
		65	ASL 10 X 65	5.40		20.8		23.4		26.0
		70	ASL 10 X 70	5.00	22.4	25.2	28.0			
		75	ASL 10 X 75	4.71	24.0	27.0	30.0			
		80	ASL 10 X 80	4.41	25.6	28.8	32.0			
12	6	20	ASL 12 X 20	25.80	167	6.4	186	7.2	206	8.0
		25	ASL 12 X 25	20.60		8.0		9.0		10.0
		30	ASL 12 X 30	17.17		9.6		10.8		12.0
		35	ASL 12 X 35	14.72		11.2		12.6		14.0
		40	ASL 12 X 40	12.95		12.8		14.4		16.0
		45	ASL 12 X 45	11.48		14.4		16.2		18.0
		50	ASL 12 X 50	10.30		16.0		18.0		20.0
		55	ASL 12 X 55	9.42		17.6		19.8		22.0
		60	ASL 12 X 60	8.63		19.2		21.6		24.0
		65	ASL 12 X 65	7.95		20.8		23.4		26.0
		70	ASL 12 X 70	7.36	22.4	25.2	28.0			
		75	ASL 12 X 75	6.87	24.0	27.0	30.0			
		80	ASL 12 X 80	6.47	25.6	28.8	32.0			
14	7	25	ASL 14 X 25	27.47	216	8.0	245	9.0	275	10.0
		30	ASL 14 X 30	22.96		9.6		10.8		12.0
		35	ASL 14 X 35	19.62		11.2		12.6		14.0
		40	ASL 14 X 40	17.17		12.8		14.4		16.0
		45	ASL 14 X 45	15.30		14.4		16.2		18.0
		50	ASL 14 X 50	13.73		16.0		8.0		20.0
		55	ASL 14 X 55	12.46		17.6		19.8		22.0
		60	ASL 14 X 60	11.48		19.2		21.6		24.0
		65	ASF 14 X 65	10.59		20.8		23.4		26.0
		70	ASL 14 X 70	9.81		22.4		25.2		28.0
		75	ASL 14 X 75	9.12	24.0	27.0	30.0			
		80	ASL 14 X 80	8.53	25.6	28.8	32.0			
		90	ASL 14 X 90	7.55	28.8	32.4	36.0			

JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
16	8	25	ASL 16 X 25	34.34	275	8.0	314	9.0	343	10.0
		30	ASL 16 X 30	28.65		9.6		10.8		12.0
		35	ASL 16 X 35	24.53		11.2		12.6		14.0
		40	ASL 16 X 40	21.48		12.8		14.4		16.0
		45	ASL 16 X 45	19.13		14.4		16.2		18.0
		50	ASL 16 X 50	17.17		16.0		18.0		20.0
		55	ASL 16 X 55	15.70		17.6		19.8		22.0
		60	ASL 16 X 60	14.32		19.2		21.6		24.0
		65	ASL 16 X 65	13.24		20.8		23.4		26.0
		70	ASL 16 X 70	12.26		22.4		25.0		28.0
		75	ASL 16 X 75	11.48		24.0		27.0		30.0
		80	ASL 16 X 80	10.79		25.6		28.8		32.0
		90	ASL 16 X 90	9.61	28.8	32.4	36.0			
		100	ASL 16 X 100	8.63	32.0	36.0	40.0			
18	9	25	ASL 18 X 25	42.18	333	8.0	382	9.0	422	10.0
		30	ASL 18 X 30	35.12		9.6		10.8		12.0
		35	ASL 18 X 35	30.12		11.2		12.6		14.0
		40	ASL 18 X 40	26.39		12.8		14.4		16.0
		45	ASL 18 X 45	23.45		14.4		16.2		18.0
		50	ASL 18 X 50	21.09		16.0		18.0		20.0
		55	ASL 18 X 55	19.23		17.6		19.8		22.0
		60	ASL 18 X 60	17.56		19.2		21.6		24.0
		65	ASL 18 X 65	16.28		20.8		23.4		26.0
		70	ASL 18 X 70	15.11		22.4		25.2		28.0
		75	ASL 18 X 75	14.13		24.0		27.0		30.0
		80	ASL 18 X 80	13.24		25.6		28.8		32.0
		90	ASL 18 X 90	11.77	28.8	32.4	36.0			
		100	ASL 18 X 100	10.50	32.0	36.0	40.0			
20	10	25	ASL 20 X 25	52.97	422	8.0	481	9.0	530	10.0
		30	ASL 20 X 30	44.15		9.6		10.8		12.0
		35	ASL 20 X 35	37.87		11.2		12.6		14.0
		40	ASL 20 X 40	33.16		12.8		14.4		16.0
		45	ASL 20 X 45	29.43		14.4		16.2		18.0
		50	ASL 20 X 50	26.49		16.0		18.0		20.0
		55	ASL 20 X 55	24.03		17.6		19.8		22.0
		60	ASL 20 X 60	22.07		19.2		21.6		24.0
		65	ASL 20 X 65	20.40		20.8		23.4		26.0
		70	ASL 20 X 70	18.93		22.4		25.2		28.0
		75	ASL 20 X 75	17.66		24.0		27.0		30.0
		80	ASL 20 X 80	16.58		25.6		28.8		32.0
		90	ASL 20 X 90	14.72		28.8		32.4		36.0
		100	ASL 20 X 100	13.24		32.0		36.0		40.0
				125		ASL 20 X 125		10.59		40.0
		150	ASL 20 X 150	8.83	48.0	54.0	60.0			

JIS B 5012 SERIES



LIGHT DUTY JIS COLOUR CODED **BLUE**

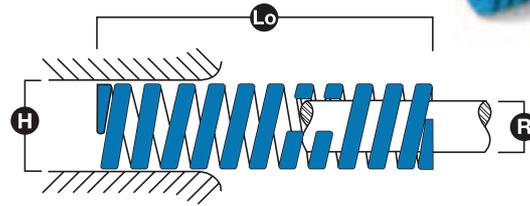
CHARGE LÉGÈRE JIS COULEUR **BLEUE**

CARGA LIGERA **AZUL** CÓDIGO COLOR SEGÚN JIS

LEICHTER BELASTUNG JIS FARBUNTERLEGTES **BLAU**

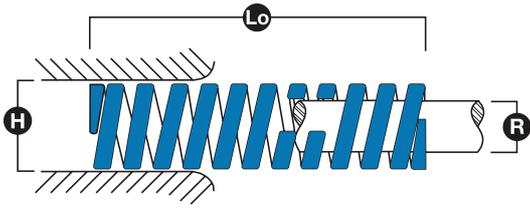
CARICO LEGGERO CODICE CROMATICO JIS **BLU**

CARGA LEVE COR DA SÉRIE JIS **AZUL**



H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
22	11	25	ASL 22 X 25	65.73	530	8.0	588	9.0	657	10.0
		30	ASL 22 X 30	54.94		9.6		10.8		12.0
		35	ASL 22 X 35	47.09		11.2		12.6		14.0
		40	ASL 22 X 40	41.20		12.8		14.4		16.0
		45	ASL 22 X 45	36.49		14.4		16.2		18.0
		50	ASL 22 X 50	32.86		16.0		18.0		20.0
		55	ASL 22 X 55	29.92		17.6		19.8		22.0
		60	ASL 22 X 60	27.47		19.2		21.6		24.0
		65	ASL 22 X 65	25.31		20.8		23.4		26.0
		70	ASL 22 X 70	23.54		22.4		25.2		28.0
		75	ASL 22 X 75	21.88		24.0		27.0		30.0
		80	ASL 22 X 80	20.60		25.6		28.8		32.0
		90	ASL 22 X 90	18.25		28.8		32.4		36.0
		100	ASL 22 X 100	16.48		32.0		36.0		40.0
		125	ASL 22 X 125	13.15		40.0		45.0		50.0
150	ASL 22 X 150	10.99	48.0	54.0	60.0					
25	12.5	25	ASL 25 X 25	82.40	657	8.0	745	9.0	824	10.0
		30	ASL 25 X 30	68.67		9.6		10.8		12.0
		35	ASL 25 X 35	58.86		11.2		12.6		14.0
		40	ASL 25 X 40	51.50		12.8		14.4		16.0
		45	ASL 25 X 45	45.81		14.4		16.2		18.0
		50	ASL 25 X 50	41.20		16.0		18.0		20.0
		55	ASL 25 X 55	37.47		17.6		19.8		22.0
		60	ASL 25 X 60	34.34		19.2		21.6		24.0
		65	ASL 25 X 65	31.69		20.8		23.4		26.0
		70	ASL 25 X 70	29.43		22.4		25.2		28.0
		75	ASL 25 X 75	27.47		24.0		27.0		30.0
		80	ASL 25 X 80	25.80		25.6		28.8		32.0
		90	ASL 25 X 90	22.86		28.8		32.4		36.0
		100	ASL 25 X 100	20.60		32.0		36.0		40.0
		125	ASL 25 X 125	16.48		40.0		45.0		50.0
150	ASL 25 X 150	13.73	48.0	54.0	60.0					
175	ASL 25 X 175	11.77	56.0	63.0	70.0					
27	13.5	25	ASL 27 X 25	98.10	795	8.0	883	9.0	981	10.0
		30	ASL 27 X 30	81.72		9.6		10.8		12.0
		35	ASL 27 X 35	70.04		11.2		12.6		14.0
		40	ASL 27 X 40	61.31		12.8		14.4		16.0
		45	ASL 27 X 45	54.54		14.4		16.2		18.0
		50	ASL 27 X 50	49.05		16.0		18.0		20.0
		55	ASL 27 X 55	44.64		17.6		19.8		22.0
		60	ASL 27 X 60	40.91		19.2		21.6		24.0
		65	ASL 27 X 65	37.77		20.8		23.4		26.0
		70	ASL 27 X 70	35.02		22.4		25.2		28.0
		75	ASL 27 X 75	32.67		24.0		27.0		30.0
		80	ASL 27 X 80	30.71		25.6		28.8		32.0
		90	ASL 27 X 90	27.27		28.8		32.4		36.0
		100	ASL 27 X 100	24.53		32.0		36.0		40.0
		125	ASL 27 X 125	19.62		40.0		45.0		50.0
150	ASL 27 X 150	16.38	48.0	54.0	60.0					
175	ASL 27 X 175	14.03	56.0	63.0	70.0					

JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
30	15	25	ASL 30 X 25	118.80	951	8.0	1,069	9.0	1,187	10.0
		30	ASL 30 X 30	98.88		9.6		10.8		12.0
		35	ASL 30 X 35	84.86		11.2		12.6		14.0
		40	ASL 30 X 40	74.16		12.8		14.4		16.0
		45	ASL 30 X 45	66.02		14.4		16.2		18.0
		50	ASL 30 X 50	59.35		16.0		18.0		20.0
		55	ASL 30 X 55	53.96		17.6		19.8		22.0
		60	ASL 30 X 60	49.44		19.2		21.6		24.0
		65	ASL 30 X 65	45.62		20.8		23.4		26.0
		70	ASL 30 X 70	42.38		22.4		25.2		28.0
		75	ASL 30 X 75	39.53		24.0		27.0		30.0
		80	ASL 30 X 80	37.08		25.6		28.8		32.0
		90	ASL 30 X 90	32.96		28.8		32.4		36.0
		100	ASL 30 X 100	29.63		32.0		36.0		40.0
		125	ASL 30 X 125	23.74		40.0		45.0		50.0
150	ASL 30 X 150	19.72	48.0	54.0	60.0					
175	ASL 30 X 175	16.87	56.0	63.0	70.0					
200	ASL 30 X 200	14.81	64.0	72.0	80.0					
35	17.5	40	ASL 35 X 40	101.14	1,295	12.8	1,461	14.4	1,618	16.0
		45	ASF 35 X 45	89.96		14.4		16.2		18.0
		50	ASL 35 X 50	80.93		16.0		18.0		20.0
		55	ASL 35 X 55	73.58		17.6		19.8		22.0
		60	ASL 35 X 60	67.39		19.2		21.6		24.0
		65	ASF 35 X 65	62.29		20.8		23.4		26.0
		70	ASL 35 X 70	57.78		22.4		25.2		28.0
		75	ASL 35 X 75	53.96		24.0		27.0		30.0
		80	ASL 35 X 80	50.52		25.6		28.8		32.0
		90	ASF 35 X 90	44.93		28.8		32.4		36.0
		100	ASL 35 X 100	40.42		32.0		36.0		40.0
		125	ASL 35 X 125	32.37		40.0		45.0		50.0
150	ASL 35 X 150	26.98	48.0	54.0	60.0					
175	ASL 35 X 175	23.05	56.0	63.0	70.0					
200	ASL 35 X 200	20.21	64.0	72.0	80.0					
40	20	40	ASL 40 X 40	132.44	1,697	12.8	1,903	14.4	2,120	16.0
		50	ASL 40 X 50	105.95		16.0		18.0		20.0
		60	ASL 40 X 60	88.29		19.2		21.6		24.0
		70	ASL 40 X 70	75.64		22.4		25.2		28.0
		80	ASL 40 X 80	66.22		25.6		28.8		32.0
		90	ASL 40 X 90	58.86		28.8		32.4		36.0
		100	ASL 40 X 100	52.97		32.0		36.0		40.0
		125	ASL 40 X 125	42.38		40.0		45.0		50.0
		150	ASL 40 X 150	35.32		48.0		54.0		60.0
		175	ASL 40 X 175	30.21		56.0		63.0		70.0
		200	ASL 40 X 200	26.49		64.0		72.0		80.0
250	ASL 40 X 250	21.19	80.0	90.0	100.0					

JIS B 5012 SERIES



LIGHT DUTY JIS COLOUR CODED **BLUE**

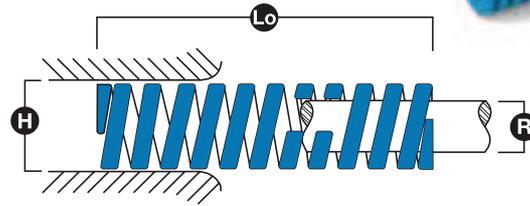
CHARGE LÉGÈRE JIS COULEUR **BLEUE**

CARGA LIGERA **AZUL** CÓDIGO COLOR SEGÚN JIS

LEICHTER BELASTUNG JIS FARBUNTERLEGTES **BLAU**

CARICO LEGGERO CODICE CROMATICO JIS **BLU**

CARGA LEVE COR DA SÉRIE JIS **AZUL**



H	R	Lo	Part No.	P/f	L ₁ 32%		L ₂ 36%		L ₃ 40%	
					N	D	N	D	N	D
50	25	50	ASL 50 X 50	165.69	2,650	16.0	2,980	18.0	3,310	20.0
		60	ASL 50 X 60	138.12		19.2		21.6		24.0
		70	ASL 50 X 70	118.41		22.4		25.2		28.0
		80	ASL 50 X 80	103.59		25.6		28.8		32.0
		90	ASL 50 X 90	92.02		28.8		32.4		36.0
		100	ASL 50 X 100	82.89		32.0		36.0		40.0
		125	ASL 50 X 125	66.32		40.0		45.0		50.0
		150	ASL 50 X 150	55.23		48.0		54.0		60.0
		175	ASL 50 X 175	47.28		56.0		63.0		70.0
		200	ASL 50 X 200	41.40		64.0		72.0		80.0
		250	ASL 50 X 250	33.16		80.0		90.0		100.0
		300	ASL 50 X 300	27.57		96.0		108.0		120.0
		350	ASL 50 X 350	23.64		112.0		126.0		140.0
		400	ASL 50 X 400	20.70		128.0		144.0		160.0
		450	ASL 50 X 450	18.44		144.0		162.0		180.0
500	ASL 50 X 500	16.58	160.0	180.0	200.0					
60	30	60	ASL 60 X 60	198.65	3,810	19.2	4,290	21.6	4,770	24.0
		70	ASL 60 X 70	170.20		22.4		25.2		28.0
		80	ASL 60 X 80	148.92		25.6		28.8		32.0
		90	ASL 60 X 90	132.44		28.8		32.4		36.0
		100	ASL 60 X 100	119.19		32.0		36.0		40.0
		125	ASL 60 X 125	95.35		40.0		45.0		50.0
		150	ASL 60 X 150	79.46		48.0		54.0		60.0
		175	ASL 60 X 175	68.08		56.0		63.0		70.0
		200	ASL 60 X 200	59.55		64.0		72.0		80.0
		250	ASL 60 X 250	47.68		80.0		90.0		100.0
		300	ASL 60 X 300	39.73		96.0		108.0		120.0
		350	ASL 60 X 350	34.04		112.0		126.0		140.0
		400	ASL 60 X 400	29.82		128.0		144.0		160.0
		450	ASL 60 X 450	26.49		144.0		162.0		180.0
		500	ASL 60 X 500	23.84		160.0		180.0		200.0



NOTES

A large area consisting of 28 horizontal grey lines, intended for providing technical notes or specifications.

JIS B 5012 SERIES

MEDIUM DUTY JIS COLOUR CODED **RED**

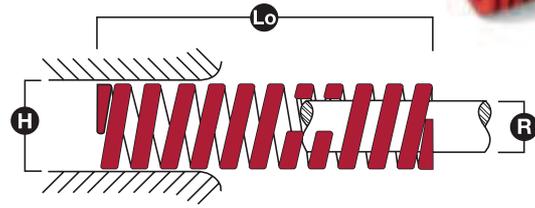
CHARGE MOYENNE JIS COULEUR **ROUGE**

CARGA MEDIA **ROJO** CÓDIGO COLOR SEGÚN JIS

MITTLERER BELASTUNG JIS FARBUNTERLEGTES **ROT**

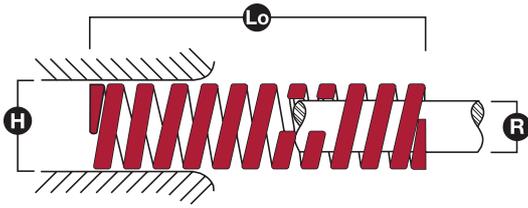
CARICO MEDIO CODICE CROMATICO JIS **ROSSO**

CARGA MEDIA COR DA SÉRIE JIS **VERMELHO**



H	R	Lo	Part No.	P/f	L ₁ 26%		L ₂ 29%		L ₃ 32%	
					N	D	N	D	N	D
8	4	10	ASM 8 X 10	42.58	108	2.6	123	2.9	137	4.0
		15	ASM 8 X 15	28.35		3.8		4.3		6.0
		20	ASM 8 X 20	21.29		5.1		5.8		8.0
		25	ASM 8 X 25	17.07		6.4		7.2		10.0
		30	ASM 8 X 30	14.22		7.7		8.6		12.0
		35	ASM 8 X 35	12.16		9.0		10.1		14.0
		40	ASM 8 X 40	10.69		10.2		11.5		16.0
		45	ASM 8 X 45	9.52		11.5		13.0		18.0
		50	ASM 8 X 50	8.53		12.8		14.4		20.0
		55	ASM 8 X 55	7.75		14.1		15.8		22.0
		60	ASM 8 X 60	7.06	15.4	17.3	24.0			
10	5	20	ASM 10 X 20	30.71	157	5.1	177	5.8	196	8.0
		25	ASM 10 X 25	24.53		6.4		7.2		10.0
		30	ASM 10 X 30	20.40		7.7		8.6		12.0
		35	ASM 10 X 35	17.46		9.0		10.1		14.0
		40	ASM 10 X 40	15.30		10.2		11.5		16.0
		45	ASM 10 X 45	13.54		11.5		13.0		18.0
		50	ASM 10 X 50	12.26		12.8		14.4		20.0
		55	ASM 10 X 55	11.09		14.1		15.8		22.0
		60	ASM 10 X 60	10.20		15.4		17.3		24.0
		65	ASM 10 X 65	9.42		16.6		18.7		26.0
		70	ASM 10 X 70	8.73	17.9	20.2	28.0			
		75	ASM 10 X 75	8.14	19.2	21.6	30.0			
		80	ASM 10 X 80	7.65	20.5	23.0	32.0			
12	6	20	ASM 12 X 20	44.44	226	5.1	255	5.8	284	8.0
		25	ASM 12 X 25	35.51		6.4		7.2		10.0
		30	ASM 12 X 30	29.63		7.7		8.6		12.0
		35	ASM 12 X 35	25.31		9.0		10.1		14.0
		40	ASM 12 X 40	22.27		10.2		11.5		16.0
		45	ASM 12 X 45	19.72		11.5		13.0		18.0
		50	ASM 12 X 50	17.76		12.8		14.4		20.0
		55	ASM 12 X 55	16.09		14.1		15.8		22.0
		60	ASM 12 X 60	14.81		15.4		17.3		24.0
		65	ASM 12 X 65	13.64		16.6		18.7		26.0
		70	ASM 12 X 70	12.65	17.9	20.2	28.0			
		75	ASM 12 X 75	11.77	19.2	21.6	30.0			
		80	ASM 12 X 80	11.09	20.5	23.0	32.0			
14	7	25	ASM 14 X 25	47.77	304	6.4	343	7.2	383	10.0
		30	ASM 14 X 30	39.83		7.7		8.6		12.0
		35	ASM 14 X 35	34.14		9.0		10.1		14.0
		40	ASM 14 X 40	29.82		10.2		11.5		16.0
		45	ASM 14 X 45	26.49		11.5		13.0		18.0
		50	ASM 14 X 50	23.84		12.8		14.4		20.0
		55	ASM 14 X 55	21.68		14.1		15.8		22.0
		60	ASM 14 X 60	19.91		15.4		17.3		24.0
		65	ASM 14 X 65	18.34		16.6		18.7		26.0
		70	ASM 14 X 70	17.07		17.9		20.2		28.0
		75	ASM 14 X 75	15.90	19.2	21.6	30.0			
		80	ASM 14 X 80	14.91	20.5	23.0	32.0			
		90	ASM 14 X 90	13.24	23.0	25.9	36.0			

JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 26%		L ₂ 29%		L ₃ 32%	
					N	D	N	D	N	D
16	8	25	ASM 16 X 25	62.69	402	6.4	451	7.2	500	8.0
		30	ASM 16 X 30	52.19		7.7		8.6		9.6
		35	ASM 16 X 35	45.62		9.0		10.1		11.2
		40	ASM 16 X 40	39.04		10.2		11.5		12.8
		45	ASM 16 X 45	34.73		11.5		13.0		14.4
		50	ASM 16 X 50	31.20		12.8		14.4		16.0
		55	ASM 16 X 55	28.35		14.1		15.8		17.6
		60	ASM 16 X 60	26.00		15.4		17.3		19.2
		65	ASM 16 X 65	24.03		16.6		18.7		20.8
		70	ASM 16 X 70	22.27		17.9		20.2		22.4
		75	ASM 16 X 75	20.70		19.2		21.6		24.0
		80	ASM 16 X 80	19.52		20.5		23.0		25.6
90	ASM 16 X 90	17.36	23.0	25.9	28.8					
100	ASM 16 X 100	15.60	25.6	28.8	32.0					
18	9	25	ASM 18 X 25	79.66	510	6.4	569	7.2	637	8.0
		30	ASM 18 X 30	66.41		7.7		8.6		9.6
		35	ASM 18 X 35	56.90		9.0		10.1		11.2
		40	ASM 18 X 40	49.74		10.2		11.5		12.8
		45	ASM 18 X 45	44.24		11.5		13.0		14.4
		50	ASM 18 X 50	39.83		12.8		14.4		16.0
		55	ASM 18 X 55	36.20		14.1		15.8		17.6
		60	ASM 18 X 60	33.16		15.4		17.3		19.2
		65	ASM 18 X 65	30.61		16.6		18.7		20.8
		70	ASM 18 X 70	28.45		17.9		20.2		22.4
		75	ASM 18 X 75	26.49		19.2		21.6		24.0
		80	ASM 18 X 80	24.82		20.5		23.0		25.6
90	ASM 18 X 90	22.07	23.0	25.9	28.8					
100	ASM 18 X 100	19.82	25.6	28.8	32.0					
20	10	25	ASM 20 X 25	98.10	628	6.4	706	7.2	785	8.0
		30	ASM 20 X 30	81.72		7.7		8.6		9.6
		35	ASM 20 X 35	70.04		9.0		10.1		11.2
		40	ASM 20 X 40	61.31		10.2		11.5		12.8
		45	ASM 20 X 45	54.45		11.5		13.0		14.4
		50	ASM 20 X 50	49.05		12.8		14.4		16.0
		55	ASM 20 X 55	44.54		14.1		15.8		17.6
		60	ASM 20 X 60	40.81		15.4		17.3		19.2
		65	ASM 20 X 65	37.67		16.6		18.7		20.8
		70	ASM 20 X 70	35.02		17.9		20.2		22.4
		75	ASM 20 X 75	32.67		19.2		21.6		24.0
		80	ASM 20 X 80	30.61		20.5		23.0		25.6
		90	ASM 20 X 90	27.17		23.0		25.9		28.8
		100	ASM 20 X 100	24.53		25.6		28.8		32.0
		125	ASM 20 X 125	19.62		32.0		36.0		40.0
150	ASM 20 X 150	16.38	38.4	43.2	48.0					

JIS B 5012 SERIES

MEDIUM DUTY JIS COLOUR CODED **RED**

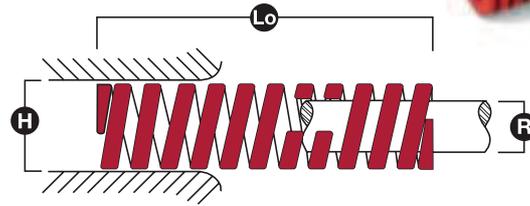
CHARGE MOYENNE JIS COULEUR **ROUGE**

CARGA MEDIA **ROJO** CÓDIGO COLOR SEGÚN JIS

MITTLERER BELASTUNG JIS FARBUNTERLEGTES **ROT**

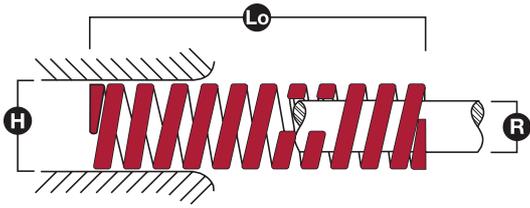
CARICO MEDIO CODICE CROMATICO JIS **ROSSO**

CARGA MEDIA COR DA SÉRIE JIS **VERMELHO**



H	R	Lo	Part No.	P/f	L ₁ 26%		L ₂ 29%		L ₃ 32%	
					N	D	N	D	N	D
22	11	25	ASM 22 X 25	119.00	765	6.4	853	7.2	951	8.0
		30	ASM 22 X 30	99.08		7.7		8.6		9.6
		35	ASM 22 X 35	84.86		9.0		10.1		11.2
		40	ASM 22 X 40	74.26		10.2		11.5		12.8
		45	ASM 22 X 45	66.12		11.5		13.0		14.4
		50	ASM 22 X 50	59.45		12.8		14.4		16.0
		55	ASM 22 X 55	53.96		14.1		15.8		17.6
		60	ASM 22 X 60	49.54		15.4		17.3		19.2
		65	ASM 22 X 65	45.71		16.6		18.7		20.8
		70	ASM 22 X 70	42.48		17.0		20.2		22.4
		75	ASM 22 X 75	39.63		19.2		21.6		24.0
		80	ASM 22 X 80	37.08		20.5		23.0		25.6
		90	ASM 22 X 90	32.96		23.0		25.9		28.8
		100	ASM 22 X 100	29.72		25.6		28.8		32.0
		125	ASM 22 X 125	23.74		32.0		36.0		40.0
150	ASM 22 X 150	19.72	38.4	43.2	48.0					
25	12.5	25	ASM 25 X 25	153.33	981	6.4	1,098	7.2	1,226	8.0
		30	ASM 25 X 30	127.73		7.7		8.6		9.6
		35	ASM 25 X 35	109.87		9.0		10.0		11.2
		40	ASM 25 X 40	95.75		10.2		11.5		12.8
		45	ASM 25 X 45	85.15		11.5		13.0		14.4
		50	ASM 25 X 50	76.62		12.8		14.4		16.0
		55	ASM 25 X 55	69.65		14.1		15.8		17.6
		60	ASM 25 X 60	63.86		15.4		17.3		19.2
		65	ASM 25 X 65	58.86		16.6		18.7		20.8
		70	ASM 25 X 70	54.74		17.9		20.2		22.4
		75	ASM 25 X 75	51.11		19.2		21.6		24.0
		80	ASM 25 X 80	47.87		20.5		23.0		25.6
		90	ASM 25 X 90	42.58		23.0		25.9		28.8
		100	ASM 25 X 100	38.26		25.6		28.8		32.0
		125	ASM 25 X 125	30.61		32.0		36.0		40.0
150	ASM 25 X 150	25.51	38.4	43.2	48.0					
175	ASM 25 X 175	21.88	44.8	50.4	56.0					
27	13.5	25	ASM 27 X 25	179.03	1,147	6.4	1,285	7.2	1,432	8.0
		30	ASM 27 X 30	149.11		7.7		8.6		9.6
		35	ASM 27 X 35	127.92		9.0		10.0		11.2
		40	ASM 27 X 40	111.83		10.2		11.5		12.8
		45	ASM 27 X 45	99.47		11.5		13.0		14.4
		50	ASM 27 X 50	89.47		12.8		14.4		16.0
		55	ASM 27 X 55	81.42		14.1		15.8		17.6
		60	ASM 27 X 60	74.56		15.4		17.3		19.2
		65	ASM 27 X 65	68.67		16.6		18.7		20.8
		70	ASM 27 X 70	63.86		17.9		20.2		22.4
		75	ASM 27 X 75	59.64		19.2		21.6		24.0
		80	ASM 27 X 80	55.92		20.5		23.0		25.6
		90	ASM 27 X 90	49.64		23.0		25.9		28.8
		100	ASM 27 X 100	44.73		25.7		28.8		32.0
		125	ASM 27 X 125	35.81		32.0		36.0		40.0
150	ASM 27 X 150	29.82	38.4	43.2	48.0					
175	ASM 27 X 175	25.60	44.8	50.4	56.0					

JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 26%		L ₂ 29%		L ₃ 32%	
					N	D	N	D	N	D
30	15	25	ASM 30 X 25	220.73	1,412	6.4	1,579	7.2	1,765	8.0
		30	ASM 30 X 30	183.94		7.7		8.6		9.6
		35	ASM 30 X 35	157.94		9.0		10.0		11.2
		40	ASM 30 X 40	137.93		10.2		11.5		12.8
		45	ASM 30 X 45	122.63		11.5		13.0		14.4
		50	ASM 30 X 50	110.36		12.8		14.4		16.0
		55	ASM 30 X 55	100.36		14.1		15.8		17.6
		60	ASM 30 X 60	91.92		15.4		17.3		19.2
		65	ASM 30 X 65	84.86		16.6		18.7		20.8
		70	ASM 30 X 70	78.77		17.9		20.2		22.4
		75	ASM 30 X 75	73.58		19.2		21.6		24.0
		80	ASM 30 X 80	68.96		20.5		23.0		25.6
		90	ASM 30 X 90	61.31		23.0		25.9		28.8
		100	ASM 30 X 100	55.23		25.6		28.8		32.0
125	ASM 30 X 125	44.15	32.0	36.0	40.0					
150	ASM 30 X 150	36.79	38.4	43.2	48.0					
175	ASM 30 X 175	31.49	44.8	50.4	56.0					
200	ASM 30 X 200	27.57	51.2	57.6	64.0					
35	17.5	40	ASM 35 X 40	187.76	1,912	10.2	2,160	11.5	2,400	12.8
		45	ASM 35 X 45	166.87		11.5		13.0		14.4
		50	ASM 35 X 50	150.19		12.8		14.4		16.0
		55	ASM 35 X 55	136.56		14.0		15.8		17.6
		60	ASM 35 X 60	125.18		15.4		17.3		19.2
		65	ASM 35 X 65	115.46		16.6		18.7		20.8
		70	ASM 35 X 70	107.22		17.9		20.2		22.4
		75	ASM 35 X 75	100.06		19.2		21.6		24.0
		80	ASM 35 X 80	93.88		20.5		23.0		25.6
		90	ASM 35 X 90	83.39		23.0		25.9		28.8
		100	ASM 35 X 100	75.05		25.6		28.8		32.0
		125	ASM 35 X 125	60.04		32.0		36.0		40.0
		150	ASM 35 X 150	50.03		38.4		43.2		48.0
		175	ASM 35 X 175	42.87		44.8		50.4		56.0
200	ASM 35 X 200	37.47	51.2	57.6	64.0					
40	20	40	ASM 40 X 40	245.45	2,510	10.2	2,820	11.5	3,140	12.8
		50	ASM 40 X 50	196.20		12.8		14.4		16.0
		60	ASM 40 X 60	162.85		15.4		17.3		19.2
		70	ASM 40 X 70	140.09		17.9		20.2		22.4
		80	ASM 40 X 80	122.63		20.5		23.0		25.6
		90	ASM 40 X 90	108.99		23.0		25.9		28.8
		100	ASM 40 X 100	98.10		25.6		28.8		32.0
		125	ASM 40 X 125	78.48		32.0		36.0		40.0
		150	ASM 40 X 150	65.33		38.4		43.2		48.0
		175	ASM 40 X 175	56.02		44.8		50.4		56.0
		200	ASM 40 X 200	49.05		51.2		57.6		64.0
		250	ASM 40 X 250	39.24		64.0		72.0		80.0

JIS B 5012 SERIES

MEDIUM DUTY JIS COLOUR CODED **RED**

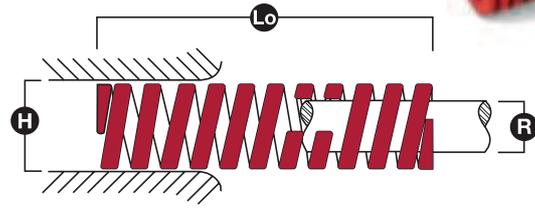
CHARGE MOYENNE JIS COULEUR **ROUGE**

CARGA MEDIA **ROJO** CÓDIGO COLOR SEGÚN JIS

MITTLERER BELASTUNG JIS FARBUNTERLEGTES **ROT**

CARICO MEDIO CODICE CROMATICO JIS **ROSSO**

CARGA MEDIA COR DA SÉRIE JIS **VERMELHO**



H	R	Lo	Part No.	P/f	L ₁ 26%		L ₂ 29%		L ₃ 32%	
					N	D	N	D	N	D
50	25	50	ASM 50 X 50	306.56	3,920	12.8	4,410	14.4	4,900	16.0
		60	ASM 50 X 60	255.45		15.4		17.3		19.2
		70	ASM 50 X 70	218.96		17.9		20.2		22.4
		80	ASM 50 X 80	191.59		20.5		23.0		25.6
		90	ASM 50 X 90	170.30		23.0		25.9		28.8
		100	ASM 50 X 100	153.23		25.6		28.8		32.0
		125	ASM 50 X 125	122.63		32.0		36.0		40.0
		150	ASM 50 X 150	102.12		38.4		43.2		48.0
		175	ASM 50 X 175	87.51		44.8		50.4		56.0
		200	ASM 50 X 200	76.62		51.2		57.6		64.0
		250	ASM 50 X 250	61.31		64.0		72.0		80.0
300	ASM 50 X 300	51.01	76.8	86.4	96.0					
60	30	60	ASM 60 X 60	366.89	5,640	15.4	6,350	17.3	7,060	19.2
		70	ASM 60 X 70	314.90		17.9		20.2		22.4
		80	ASM 60 X 80	275.86		20.5		23.0		25.6
		90	ASM 60 X 90	245.25		23.0		25.9		28.8
		100	ASM 60 X 100	220.73		25.6		28.8		32.0
		125	ASM 60 X 125	176.58		32.0		36.0		40.0
		150	ASM 60 X 150	147.15		38.4		43.2		48.0
		175	ASM 60 X 175	126.06		44.8		50.4		56.0
		200	ASM 60 X 200	110.36		51.2		57.6		64.0
		250	ASM 60 X 250	88.29		64.0		72.0		80.0
		300	ASM 60 X 300	73.58		76.8		86.4		96.0

JIS B 5012 SERIES



HEAVY DUTY JIS COLOUR CODED **GREEN**

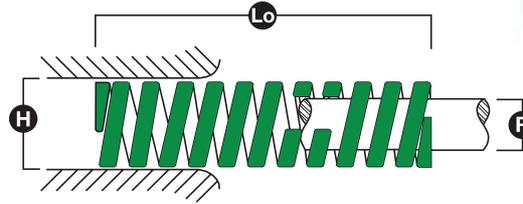
CHARGE FORTE JIS COULEUR **VERTE**

CARGA FUERTE **VERDE** CÓDIGO COLOR SEGÚN JIS

SCHWERER BELASTUNG JIS FARBUNTERLEGTES **GRÜN**

CARICO PESANTE CODICE CROMATICO JIS **VERDE**

CARGA PESADA COR DA SÉRIE JIS **VERDE**

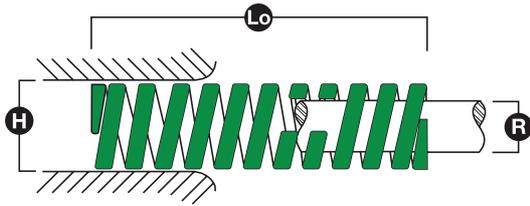


H	R	Lo	Part No.	P/f	L ₁ 19%		L ₂ 22%		L ₃ 24%	
					N	D	N	D	N	D
8	4	10	ASH 8 X 10	86.33	167	1.9	186	2.2	206	2.4
		15	ASH 8 X 15	57.49		2.9		3.2		3.6
		20	ASH 8 X 20	43.16		3.8		4.3		4.8
		25	ASH 8 X 25	34.53		4.8		5.4		6.0
		30	ASH 8 X 30	28.74		5.8		6.5		7.2
		35	ASH 8 X 35	24.62		6.7		7.5		8.4
		40	ASH 8 X 40	21.58		7.7		8.6		9.6
		45	ASH 8 X 45	19.13		8.6		9.7		10.8
		50	ASH 8 X 50	17.27		9.6		10.8		12.0
		55	ASH 8 X 55	15.70		10.6		11.8		13.2
		60	ASH 8 X 60	14.42	11.5	13.0	14.4			
10	5	20	ASH 10 X 20	61.31	235	3.8	265	4.3	294	4.8
		25	ASH 10 X 25	49.05		4.8		5.4		6.0
		30	ASH 10 X 30	40.81		5.8		6.5		7.2
		35	ASH 10 X 35	35.02		6.7		7.5		8.4
		40	ASH 10 X 40	30.90		7.7		8.6		9.6
		45	ASH 10 X 45	27.17		8.6		9.7		10.8
		50	ASH 10 X 50	24.53		9.6		10.8		12.0
		55	ASH 10 X 55	22.27		10.6		11.8		13.2
		60	ASH 10 X 60	20.40		11.5		13.0		14.4
		65	ASH 10 X 65	18.84		12.5		14.0		15.6
		70	ASH 10 X 70	17.56	13.4	15.1	16.8			
		75	ASH 10 X 75	16.38	14.4	16.2	18.0			
		80	ASH 10 X 80	15.30	15.4	17.3	19.2			
12	6	20	ASH 12 X 20	87.31	333	3.8	373	4.3	422	4.8
		25	ASH 12 X 25	69.65		4.8		5.4		6.0
		30	ASH 12 X 30	58.57		5.8		6.5		7.2
		35	ASH 12 X 35	50.13		6.7		7.5		8.4
		40	ASH 12 X 40	43.85		7.7		8.6		9.6
		45	ASH 12 X 45	39.04		8.6		9.7		10.8
		50	ASH 12 X 50	35.12		9.6		10.8		12.0
		55	ASH 12 X 55	31.88		10.6		11.8		13.2
		60	ASH 12 X 60	29.23		11.5		13.0		14.4
		65	ASH 12 X 65	26.88		12.5		14.0		15.6
		70	ASH 12 X 70	24.92	13.4	15.1	16.8			
		75	ASH 12 X 75	23.25	14.4	16.2	18.0			
		80	ASH 12 X 80	21.68	15.4	17.3	19.2			
14	7	25	ASH 14 X 25	96.43	461	4.8	520	5.4	579	6.0
		30	ASH 14 X 30	80.34		5.8		6.5		7.2
		35	ASH 14 X 35	68.87		6.7		7.5		8.4
		40	ASH 14 X 40	60.23		7.7		8.6		9.6
		45	ASH 14 X 45	53.56		8.6		9.7		10.8
		50	ASH 14 X 50	48.17		9.6		10.8		12.0
		55	ASH 14 X 55	43.75		10.6		11.8		13.2
		60	ASH 14 X 60	40.12		11.5		13.0		14.4
		65	ASH 14 X 65	37.08		12.5		14.0		15.6
		70	ASH 14 X 70	34.43		13.4		15.1		16.8
		75	ASH 14 X 75	32.08	14.4	16.2	18.0			
		80	ASH 14 X 80	30.12	15.4	17.3	19.2			
		90	ASH 14 X 90	26.68	17.3	19.4	21.6			

JIS



JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 19%		L ₂ 22%		L ₃ 24%			
					N	D	N	D	N	D		
16	8	25	ASH 16 X 25	125.86	608	4.8	677	5.4	755	6.0		
		30	ASH 16 X 30	104.87		5.8		6.5		7.2		
		35	ASH 16 X 35	89.86		6.7		7.5		8.4		
		40	ASH 16 X 40	78.68		7.7		8.6		9.6		
		45	ASH 16 X 45	69.85		8.6		9.7		10.8		
		50	ASH 16 X 50	62.88		9.6		10.8		12.0		
		55	ASH 16 X 55	57.19		10.6		11.8		13.2		
		60	ASH 16 X 60	52.39		11.5		13.0		14.4		
		65	ASH 16 X 65	48.36		12.5		14.0		15.6		
		70	ASH 16 X 70	44.93		13.4		15.1		16.8		
		75	ASH 16 X 75	41.99		14.4		16.2		18.0		
		80	ASH 16 X 80	39.34		15.4		17.3		19.2		
		90	ASH 16 X 90	35.02		17.3		19.4		21.6		
		100	ASH 16 X 100	31.49	19.2	21.6	24.0					
18	9	25	ASH 18 X 25	158.53	765	4.8	853	5.4	951	6.0		
		30	ASH 18 X 30	133.12		5.8		6.5		7.2		
		35	ASH 18 X 35	113.21		6.7		7.5		8.4		
		40	ASH 18 X 40	99.08		7.7		8.6		9.6		
		45	ASH 18 X 45	88.09		8.6		9.7		10.8		
		50	ASH 18 X 50	79.26		9.6		10.8		12.0		
		55	ASH 18 X 55	72.01		10.6		11.8		13.2		
		60	ASH 18 X 60	66.02		11.5		13.0		14.4		
		65	ASH 18 X 65	60.92		12.5		14.0		15.6		
		70	ASH 18 X 70	56.60		13.4		15.1		16.8		
		75	ASH 18 X 75	52.88		14.4		16.2		18.0		
		80	ASH 18 X 80	49.54		15.4		17.3		19.2		
		90	ASH 18 X 90	44.15		17.3		19.4		21.6		
		100	ASH 18 X 100	39.63	19.2	21.6	24.0					
20	10	25	ASH 20 X 25	196.20	941	4.8	1,059	5.4	1,177	6.0		
		30	ASH 20 X 30	163.43		5.8		6.5		7.2		
		35	ASH 20 X 35	140.09		6.7		7.5		8.4		
		40	ASH 20 X 40	122.63		7.7		8.6		9.6		
		45	ASH 20 X 45	108.99		8.6		9.7		10.8		
		50	ASH 20 X 50	98.10		9.6		10.8		12.0		
		55	ASH 20 X 55	89.17		10.6		11.8		13.2		
		60	ASH 20 X 60	81.72		11.5		13.0		14.4		
		65	ASH 20 X 65	75.44		12.5		14.0		15.6		
		70	ASH 20 X 70	70.04		13.4		15.1		16.8		
		75	ASH 20 X 75	65.43		14.4		16.2		18.0		
		80	ASH 20 X 80	61.31		15.4		17.3		19.2		
		90	ASH 20 X 90	54.45		17.3		19.4		21.6		
				100		ASH 20 X 100		49.05		19.2	21.6	24.0
				125		ASH 20 X 125		39.24		24.0	27.0	30.0
		150	ASH 20 X 150	32.67	28.8	32.4	36.0					

JIS



JIS B 5012 SERIES



HEAVY DUTY JIS COLOUR CODED GREEN

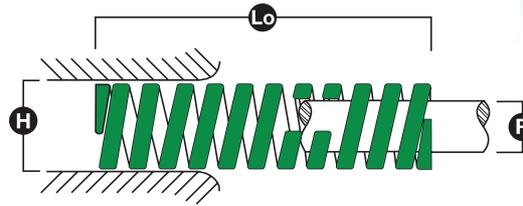
CHARGE FORTE JIS COULEUR VERTE

CARGA FUERTE VERDE CÓDIGO COLOR SEGÚN JIS

SCHWERER BELASTUNG JIS FARBUNTERLEGTES GRÜN

CARICO PESANTE CODICE CROMATICO JIS VERDE

CARGA PESADA COR DA SÉRIE JIS VERDE

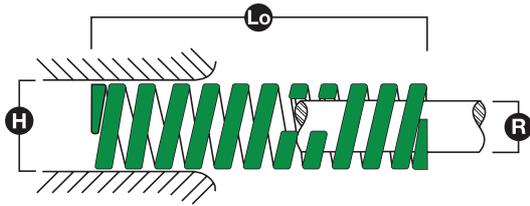


H	R	Lo	Part No.	P/f	L ₁ 19%		L ₂ 22%		L ₃ 24%	
					N	D	N	D	N	D
22	11	25	ASH 22 X 25	237.01	1,138	4.8	1,275	5.40	1,422	6.0
		30	ASH 22 X 30	197.48		5.8		6.50		7.2
		35	ASH 22 X 35	169.71		6.7		7.50		8.4
		40	ASH 22 X 40	148.13		7.7		8.60		9.6
		45	ASH 22 X 45	131.45		8.6		9.70		10.8
		50	ASH 22 X 50	118.50		9.6		10.80		12.0
		55	ASH 22 X 55	107.32		10.6		11.90		13.2
		60	ASH 22 X 60	98.69		11.5		13.00		14.4
		65	ASH 22 X 65	91.04		12.5		14.00		15.6
		70	ASH 22 X 70	84.66		13.4		15.10		16.8
		75	ASH 22 X 75	78.87		14.4		16.20		18.0
		80	ASH 22 X 80	74.07		15.4		17.30		19.2
		90	ASH 22 X 90	65.83		17.3		19.40		21.6
		100	ASH 22 X 100	59.25		19.2		21.60		24.0
125	ASH 22 X 125	47.38	24.0	27.00	30.0					
150	ASH 22 X 150	39.44	28.8	32.40	36.0					
25	12.5	25	ASH 25 X 25	306.07	1,471	4.8	1,657	5.40	1,834	6.0
		30	ASH 25 X 30	254.77		5.8		6.50		7.2
		35	ASH 25 X 35	219.55		6.7		7.50		8.4
		40	ASH 25 X 40	191.00		7.7		8.60		9.6
		45	ASH 25 X 45	170.69		8.6		9.70		10.8
		50	ASH 25 X 50	152.84		9.6		10.80		12.0
		55	ASH 25 X 55	139.30		10.6		11.90		13.2
		60	ASH 25 X 60	127.33		11.5		13.00		14.4
		65	ASH 25 X 65	117.72		12.5		14.00		15.6
		70	ASH 25 X 70	109.19		13.4		15.10		16.8
		75	ASH 25 X 75	102.02		14.4		16.20		18.0
		80	ASH 25 X 80	95.45		15.4		17.30		19.2
		90	ASH 25 X 90	84.86		17.3		19.40		21.6
		100	ASH 25 X 100	76.42		19.2		21.60		24.0
125	ASH 25 X 125	61.12	24.0	27.00	30.0					
150	ASH 25 X 150	51.01	28.8	32.40	36.0					
175	ASH 25 X 175	43.75	33.6	37.80	42.0					
27	13.5	25	ASH 27 X 25	357.08	1,716	4.8	1,932	5.40	2,150	6.0
		30	ASH 27 X 30	298.32		5.8		6.50		7.2
		35	ASH 27 X 35	257.02		6.7		7.50		8.4
		40	ASH 27 X 40	223.77		7.7		8.60		9.6
		45	ASH 27 X 45	199.14		8.6		9.70		10.8
		50	ASH 27 X 50	179.03		9.6		10.80		12.0
		55	ASH 27 X 55	161.87		10.6		11.90		13.2
		60	ASH 27 X 60	149.11		11.5		13.00		14.4
		65	ASH 27 X 65	137.34		12.5		14.00		15.6
		70	ASH 27 X 70	127.82		13.4		15.10		16.8
		75	ASH 27 X 75	118.70		14.4		16.20		18.0
		80	ASH 27 X 80	111.83		15.4		17.30		19.2
		90	ASH 27 X 90	99.38		17.3		19.40		21.6
		100	ASH 27 X 100	89.47		19.2		21.60		24.0
125	ASH 27 X 125	71.61	24.0	27.00	30.0					
150	ASH 27 X 150	59.64	28.8	32.40	36.0					
175	ASH 27 X 175	51.11	33.6	37.80	42.0					

JIS



JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 19%		L ₂ 22%		L ₃ 24%		
					N	D	N	D	N	D	
30	15	25	ASH 30 X 25	441.45	2,120	4.8	2,380	14.0	2,550	6.0	
		30	ASH 30 X 30	367.88		5.8					7.2
		35	ASH 30 X 35	316.47		6.7					8.4
		40	ASH 30 X 40	275.86		7.7					9.6
		45	ASH 30 X 45	245.25		8.6					10.6
		50	ASH 30 X 50	220.73		9.6					12.0
		55	ASH 30 X 55	200.12		10.6					13.2
		60	ASH 30 X 60	183.94		11.5					14.4
		65	ASH 30 X 65	169.71		12.5					15.6
		70	ASH 30 X 70	157.65		13.4					16.8
		75	ASH 30 X 75	147.15		14.4					18.0
		80	ASH 30 X 80	137.93		15.4					19.2
		90	ASH 30 X 90	122.63		17.3					21.6
		100	ASH 30 X 100	110.36		19.2					24.0
		125	ASH 30 X 125	88.29		24.0					30.0
150	ASH 30 X 150	73.58	28.8	36.0							
175	ASH 30 X 175	62.98	33.6	42.0							
200	ASH 30 X 200	55.13	38.4	48.0							
35	17.5	40	ASH 35 X 40	374.94	2,870	7.7	3,240	16.2	3,600	9.6	
		45	ASH 35 X 45	333.34		8.6					10.6
		50	ASH 35 X 50	299.99		9.6					12.0
		55	ASH 35 X 55	272.72		10.6					13.2
		60	ASH 35 X 60	249.96		11.5					14.4
		65	ASH 35 X 65	230.83		12.5					15.6
		70	ASH 35 X 70	214.25		13.4					16.8
		75	ASH 35 X 75	200.03		14.4					18.0
		80	ASH 35 X 80	187.47		15.4					19.2
		90	ASH 35 X 90	166.67		17.3					21.6
		100	ASH 35 X 100	149.99		19.2					24.0
		125	ASH 35 X 125	119.98		24.0					30.0
150	ASH 35 X 150	99.96	28.8	36.0							
175	ASH 35 X 175	85.64	33.6	42.0							
200	ASH 35 X 200	74.95	38.4	48.0							
40	20	40	ASH 40 X 40	490.50	3,770	7.7	4,240	21.6	4,710	9.6	
		50	ASH 40 X 50	392.40		9.6					12.0
		60	ASH 40 X 60	326.97		11.5					14.4
		70	ASH 40 X 70	280.27		13.4					16.8
		80	ASH 40 X 80	245.25		15.4					19.2
		90	ASH 40 X 90	217.98		17.3					21.6
		100	ASH 40 X 100	196.20		19.2					24.0
		125	ASH 40 X 125	156.96		24.0					30.0
		150	ASH 40 X 150	130.77		28.8					36.0
		175	ASH 40 X 175	112.03		33.6					42.0
		200	ASH 40 X 200	98.10		38.4					48.0
		250	ASH 40 X 250	78.48		48.0					60.0

JIS B 5012 SERIES



HEAVY DUTY JIS COLOUR CODED **GREEN**

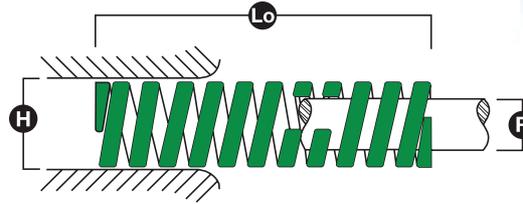
CHARGE FORTE JIS COULEUR **VERTE**

CARGA FUERTE **VERDE** CÓDIGO COLOR SEGÚN JIS

SCHWERER BELASTUNG JIS FARBUNTERLEGTES **GRÜN**

CARICO PESANTE CODICE CROMATICO JIS **VERDE**

CARGA PESADA COR DA SÉRIE JIS **VERDE**



H	R	Lo	Part No.	P/f	L ₁ 19%		L ₂ 22%		L ₃ 24%	
					N	D	N	D	N	D
50	25	50	ASH 50 X 50	613.13	5,880	9.6	6,620	10.8	7,360	12.0
		60	ASH 50 X 60	510.90		11.5		13.0		14.4
		70	ASH 50 X 70	437.92		13.4		15.1		16.8
		80	ASH 50 X 80	383.18		15.4		17.3		19.2
		90	ASH 50 X 90	340.60		17.3		19.4		21.6
		100	ASH 50 X 100	306.56		19.2		21.6		24.0
		125	ASH 50 X 125	245.25		24.0		27.0		30.0
		150	ASH 50 X 150	204.34		28.8		32.4		36.0
		175	ASH 50 X 175	175.11		33.6		37.8		42.0
		200	ASH 50 X 200	153.23		38.4		43.2		48.0
		250	ASH 50 X 250	122.63		48.0		54.0		60.0
		300	ASH 50 X 300	102.12	57.6	64.8	72.0			
60	30	60	ASH 60 X 60	735.75	8,470	11.5	9,540	13.0	10,590	14.4
		70	ASH 60 X 70	630.59		13.4		15.1		16.8
		80	ASH 60 X 80	551.81		15.4		17.3		19.2
		90	ASH 60 X 90	490.50		17.3		19.4		21.6
		100	ASH 60 X 100	441.45		19.2		21.6		24.0
		125	ASH 60 X 125	353.16		24.0		27.0		30.0
		150	ASH 60 X 150	294.30		28.8		32.4		36.0
		175	ASH 60 X 175	252.22		33.6		37.8		42.0
		200	ASH 60 X 200	220.73		38.4		43.2		48.0
		250	ASH 60 X 250	176.58		48.0		54.0		60.0
				300		ASH 60 X 300		147.15		57.6

JIS B 5012 SERIES

EXTRA HEAVY DUTY JIS COLOUR CODED **BROWN**

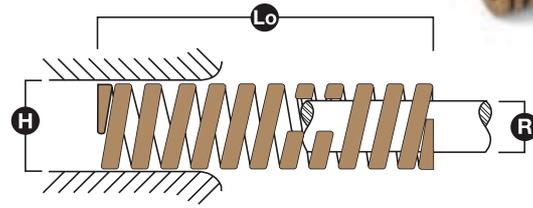
CHARGE EXTRA FORTE JIS COULEUR **MARRON**

CARGA EXTRA FUERTE **MARRON** CÓDIGO COLOR SEGÚN JIS

EXTRASCHWERER BELASTUNG JIS FARBUNTERLEGTES **BRAUN**

CARICO EXTRA PESANTE CODICE CROMATICO JIS **MARRONE**

CARGA EXTRA PESADA COR DA SÉRIE JIS **MARRON**



H	R	Lo	Part No.	P/f	L ₁ 16%		L ₂ 18%		L ₃ 20%	
					N	D	N	D	N	D
8	4	10	ASB 8 X 10	166.18	255	1.6	299	1.8	343	2.0
		15	ASB 8 X 15	110.85		2.4		2.7		3.0
		20	ASB 8 X 20	83.09		3.2		3.6		4.0
		25	ASB 8 X 25	66.51		4.0		4.5		5.0
		30	ASB 8 X 30	55.43		4.8		5.4		6.0
		35	ASB 8 X 35	47.48		5.6		6.3		7.0
		40	ASB 8 X 40	41.20		6.4		7.2		8.0
		45	ASB 8 X 45	36.98		7.2		8.1		9.0
		50	ASB 8 X 50	33.26		8.0		9.0		10.0
		55	ASB 8 X 55	30.21		8.8		9.9		11.0
		60	ASB 8 X 60	27.66	9.6	10.8	12.0	12.0		
10	5	20	ASB 10 X 20	110.36	353	3.2	402	3.6	441	4.0
		25	ASB 10 X 25	88.29		4.0		4.5		5.0
		30	ASB 10 X 30	73.58		4.8		5.4		6.0
		35	ASB 10 X 35	63.08		5.6		6.3		7.0
		40	ASB 10 X 40	55.23		6.4		7.2		8.0
		45	ASB 10 X 45	49.05		7.2		8.1		9.0
		50	ASB 10 X 50	44.15		8.0		9.0		10.0
		55	ASB 10 X 55	40.12		8.8		9.9		11.0
		60	ASB 10 X 60	36.79		9.6		10.8		12.0
		65	ASB 10 X 65	34.04		10.4		11.7		13.0
		70	ASB 10 X 70	31.49	11.2	12.6	14.0	14.0		
		75	ASB 10 X 75	29.43	12.0	13.5	15.0	15.0		
		80	ASB 10 X 80	27.66	12.8	14.4	16.0	16.0		
12	6	20	ASB 12 X 20	142.25	451	3.2	510	3.6	569	4.0
		25	ASB 12 X 25	113.80		4.0		4.5		5.0
		30	ASB 12 X 30	94.86		4.8		5.4		6.0
		35	ASB 12 X 35	81.32		5.6		6.3		7.0
		40	ASB 12 X 40	71.12		6.4		7.2		8.0
		45	ASB 12 X 45	63.18		7.2		8.1		9.0
		50	ASB 12 X 50	56.90		8.0		9.0		10.0
		55	ASB 12 X 55	51.70		8.8		9.9		11.0
		60	ASB 12 X 60	47.38		9.6		10.8		12.0
		65	ASB 12 X 65	43.56		10.4		11.7		13.0
		70	ASB 12 X 70	40.52	11.2	12.6	14.0	14.0		
		75	ASB 12 X 75	37.77	12.0	13.5	15.0	15.0		
		80	ASB 12 X 80	35.41	12.8	14.4	16.0	16.0		
14	7	25	ASB 14 X 25	147.15	588	4.0	667	4.5	736	5.0
		30	ASB 14 X 30	122.63		4.8		5.4		6.0
		35	ASB 14 X 35	105.16		5.6		6.3		7.0
		40	ASB 14 X 40	92.02		6.4		7.2		8.0
		45	ASB 14 X 45	81.82		7.2		8.1		9.0
		50	ASB 14 X 50	73.58		8.0		9.0		10.0
		55	ASB 14 X 55	66.90		8.8		9.9		11.0
		60	ASB 14 X 60	61.31		9.6		10.8		12.0
		65	ASB 14 X 65	56.60		10.4		11.7		13.0
		70	ASB 14 X 70	52.58		11.2		12.6		14.0
		75	ASB 14 X 75	49.05	12.0	13.5	15.0	15.0		
		80	ASB 14 X 80	46.01	12.8	14.4	16.0	16.0		
		90	ASB 14 X 90	40.91	14.4	16.2	18.0	18.0		

JIS B 5012 SERIES



EXTRA HEAVY DUTY JIS COLOUR CODED **BROWN**

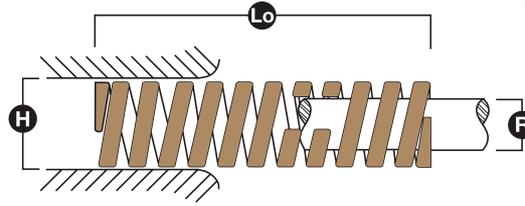
CHARGE EXTRA FORTE JIS COULEUR **MARRON**

CARGA EXTRA FUERTE **MARRON** CÓDIGO COLOR SEGÚN JIS

EXTRASCHWERER BELASTUNG JIS FARBUNTERLEGTES **BRAUN**

CARICO EXTRA PESANTE CODICE CROMATICO JIS **MARRONE**

CARGA EXTRA PESADA COR DA SÉRIE JIS **MARRON**

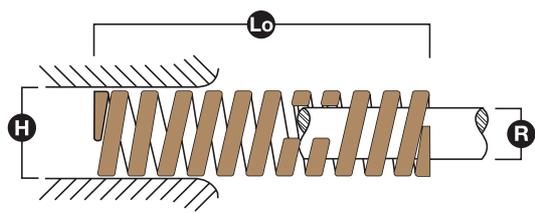


H	R	Lo	Part No.	P/f	L ₁ 16%		L ₂ 18%		L ₃ 20%	
					N	D	N	D	N	D
16	8	25	ASB 16 X 25	196.20	785	4.0	883	4.5	981	5.0
		30	ASB 16 X 30	163.53		4.8		5.4		6.0
		35	ASB 16 X 35	140.18		5.6		6.3		7.0
		40	ASB 16 X 40	122.63		6.4		7.2		8.0
		45	ASB 16 X 45	108.99		7.2		8.1		9.0
		50	ASB 16 X 50	98.10		8.0		9.0		10.0
		55	ASB 16 X 55	89.17		8.8		9.9		11.0
		60	ASB 16 X 60	81.82		9.6		10.8		12.0
		65	ASB 16 X 65	75.44		10.4		11.7		13.0
		70	ASB 16 X 70	70.04		11.2		12.6		14.0
		75	ASB 16 X 75	65.43		12.0		13.5		15.0
		80	ASB 16 X 80	61.31		12.8		14.4		16.0
85	ASB 16 X 85	57.80	13.6	15.3	17.0					
90	ASB 16 X 90	54.54	14.4	16.2	18.0					
95	ASB 16 X 95	51.43	15.2	17.1	19.0					
100	ASB 16 X 100	49.05	16.0	18.0	20.0					
18	9	25	ASB 18 X 25	245.25	981	4.0	1,108	4.5	1,226	5.0
		30	ASB 18 X 30	204.44		4.8		5.4		6.0
		35	ASB 18 X 35	175.21		5.6		6.3		7.0
		40	ASB 18 X 40	153.33		6.4		7.2		8.0
		45	ASB 18 X 45	136.26		7.2		8.1		9.0
		50	ASB 18 X 50	122.63		8.0		9.0		10.0
		55	ASB 18 X 55	111.54		8.8		9.9		11.0
		60	ASB 18 X 60	102.22		9.6		10.8		12.0
		65	ASB 18 X 65	94.37		10.4		11.7		13.0
		70	ASB 18 X 70	87.60		11.2		12.6		14.0
		75	ASB 18 X 75	81.82		12.0		13.5		15.0
		80	ASB 18 X 80	76.71		12.8		14.4		16.0
85	ASB 18 X 85	72.10	13.6	15.3	17.0					
90	ASB 18 X 90	68.18	14.4	16.2	18.0					
95	ASB 18 X 95	64.36	15.2	17.1	19.0					
100	ASB 18 X 100	61.41	16.0	18.0	20.0					
20	10	25	ASB 20 X 25	313.92	1,255	4.0	1,412	4.5	1,569	5.0
		30	ASB 20 X 30	261.63		4.8		5.4		6.0
		35	ASB 20 X 35	224.26		5.6		6.3		7.0
		40	ASB 20 X 40	196.20		6.4		7.2		8.0
		45	ASB 20 X 45	174.42		7.2		8.1		9.0
		50	ASB 20 X 50	156.96		8.0		9.0		10.0
		55	ASB 20 X 55	142.74		8.8		9.9		11.0
		60	ASB 20 X 60	130.77		9.6		10.8		12.0
		65	ASB 20 X 65	120.76		10.4		11.7		13.0
		70	ASB 20 X 70	112.13		11.2		12.6		14.0
		75	ASB 20 X 75	104.67		12.0		13.5		15.0
		80	ASB 20 X 80	98.10		12.8		14.4		16.0
		85	ASB 20 X 85	92.10		13.6		15.3		17.0
		90	ASB 20 X 90	87.21		14.4		16.2		18.0
		95	ASB 20 X 95	82.43		15.2		17.1		19.0
100	ASB 20 X 100	78.48	16.0	18.0	20.0					
105	ASB 20 X 105	74.43	16.8	18.9	21.0					
110	ASB 20 X 110	70.43	17.6	19.8	22.0					
115	ASB 20 X 115	66.43	18.4	20.7	23.0					
120	ASB 20 X 120	62.78	19.2	21.6	24.0					
125	ASB 20 X 125	62.78	20.0	22.5	25.0					
130	ASB 20 X 130	58.78	20.8	23.4	26.0					
135	ASB 20 X 135	54.78	21.6	24.3	27.0					
140	ASB 20 X 140	50.78	22.4	25.2	28.0					
145	ASB 20 X 145	46.78	23.2	26.1	29.0					
150	ASB 20 X 150	52.29	24.0	27.0	30.0					

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JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 16%		L ₂ 18%		L ₃ 20%	
					N	D	N	D	N	D
22	11	25	ASB 22 X 25	382.59	1,530	4.0	1,726	4.5	1,912	5.0
		30	ASB 22 X 30	318.83		4.8		5.4		6.0
		35	ASB 22 X 35	273.31		5.6		6.3		7.0
		40	ASB 22 X 40	239.17		6.4		7.2		8.0
		45	ASB 22 X 45	212.58		7.2		8.1		9.0
		50	ASB 22 X 50	191.30		8.0		9.0		10.0
		55	ASB 22 X 55	173.93		8.8		9.9		11.0
		60	ASB 22 X 60	159.41		9.6		10.8		12.0
		65	ASB 22 X 65	147.15		10.4		11.7		13.0
		70	ASB 22 X 70	136.65		11.2		12.6		14.0
		75	ASB 22 X 75	127.53		12.0		13.5		15.0
		80	ASB 22 X 80	119.58		12.8		14.4		16.0
		90	ASB 22 X 90	106.24		14.4		16.2		18.0
		100	ASB 22 X 100	95.65		16.0		18.0		20.0
		125	ASB 22 X 125	76.52		20.0		22.5		25.0
150	ASB 22 X 150	63.77	24.0	27.0	30.0					
25	12.5	25	ASB 25 X 25	480.69	1,922	4.0	2,170	4.5	2,400	5.0
		30	ASB 25 X 30	400.25		4.8		5.4		6.0
		35	ASB 25 X 35	343.35		5.6		6.3		7.0
		40	ASB 25 X 40	300.19		6.4		7.2		8.0
		45	ASB 25 X 45	266.83		7.2		8.1		9.0
		50	ASB 25 X 50	240.35		8.0		9.0		10.0
		55	ASB 25 X 55	218.76		8.8		9.9		11.0
		60	ASB 25 X 60	200.12		9.6		10.8		12.0
		65	ASB 25 X 65	184.43		10.4		11.7		13.0
		70	ASB 25 X 70	171.68		11.2		12.6		14.0
		75	ASB 25 X 75	159.90		12.0		13.5		15.0
		80	ASB 25 X 80	150.09		12.8		14.4		16.0
		90	ASB 25 X 90	133.42		14.4		16.2		18.0
		100	ASB 25 X 100	120.66		16.0		18.0		20.0
		125	ASB 25 X 125	96.14		20.0		22.5		25.0
150	ASB 25 X 150	80.15	24.0	27.0	30.0					
175	ASB 25 X 175	68.67	28.0	31.5	35.0					
27	13.5	25	ASB 27 X 25	568.98	2,280	4.0	2,560	4.5	2,840	5.0
		30	ASB 27 X 30	474.12		4.8		5.4		6.0
		35	ASB 27 X 35	406.43		5.6		6.3		7.0
		40	ASB 27 X 40	355.61		6.4		7.2		8.0
		45	ASB 27 X 45	316.08		7.2		8.1		9.0
		50	ASB 27 X 50	284.49		8.0		9.0		10.0
		55	ASB 27 X 55	258.59		8.8		9.9		11.0
		60	ASB 27 X 60	237.11		9.6		10.8		12.0
		65	ASB 27 X 65	218.86		10.4		11.7		13.0
		70	ASB 27 X 70	203.17		11.2		12.6		14.0
		75	ASB 27 X 75	189.63		12.0		13.5		15.0
		80	ASB 27 X 80	177.86		12.8		14.4		16.0
		90	ASB 27 X 90	158.04		14.4		16.2		18.0
		100	ASB 27 X 100	142.25		16.0		18.0		20.0
		125	ASB 27 X 125	113.80		20.0		22.5		25.0
150	ASB 27 X 150	94.86	24.0	27.0	30.0					
175	ASB 27 X 175	81.23	28.0	31.5	35.0					

JIS B 5012 SERIES

EXTRA HEAVY DUTY JIS COLOUR CODED **BROWN**

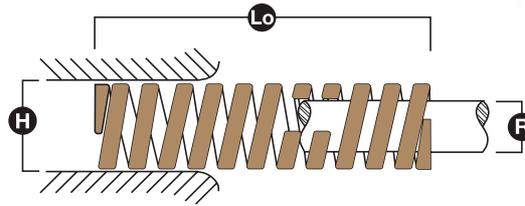
CHARGE EXTRA FORTE JIS COULEUR **MARRON**

CARGA EXTRA FUERTE **MARRON** CÓDIGO COLOR SEGÚN JIS

EXTRASCHWERER BELASTUNG JIS FARBUNTERLEGTES **BRAUN**

CARICO EXTRA PESANTE CODICE CROMATICO JIS **MARRONE**

CARGA EXTRA PESADA COR DA SÉRIE JIS **MARRON**

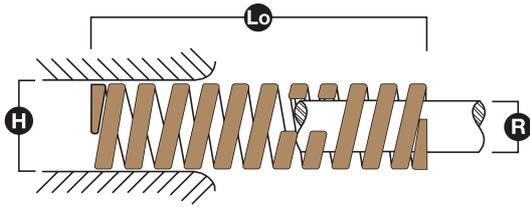


H	R	Lo	Part No.	P/f	L ₁ 16%		L ₂ 18%		L ₃ 20%	
					N	D	N	D	N	D
30	15	25	ASB 30 X 25	706.32	2,820	4.0	3,180	4.5	3,530	5.0
		30	ASB 30 X 30	588.60		4.8				6.0
		35	ASB 30 X 35	504.53		5.6				7.0
		40	ASB 30 X 40	441.45		6.4				8.0
		45	ASB 30 X 45	392.40		7.2				9.0
		50	ASB 30 X 50	353.16		8.0				10.0
		55	ASB 30 X 55	320.98		8.8				11.0
		60	ASB 30 X 60	294.30		9.6				12.0
		65	ASB 30 X 65	271.64		10.4				13.0
		70	ASB 30 X 70	252.22		11.2				14.0
		75	ASB 30 X 75	235.44		12.0				15.0
		80	ASB 30 X 80	220.73		12.8				16.0
		90	ASB 30 X 90	196.20		14.4				18.0
		100	ASB 30 X 100	176.58		16.0				20.0
		125	ASB 30 X 125	141.26		20.0				25.0
150	ASB 30 X 150	117.72	24.0	30.0						
175	ASB 30 X 175	100.85	28.0	35.0						
200	ASB 30 X 200	88.29	32.0	40.0						
35	17.5	40	ASB 35 X 40	600.37	3,840	6.4	4,320	7.2	4,810	8.0
		45	ASB 35 X 45	534.06		7.2				9.0
		50	ASB 35 X 50	480.69		8.0				10.0
		55	ASB 35 X 55	436.94		8.8				11.0
		60	ASB 35 X 60	400.54		9.6				12.0
		65	ASB 35 X 65	369.74		10.4				13.0
		70	ASB 35 X 70	343.35		11.2				14.0
		75	ASB 35 X 75	320.49		12.0				15.0
		80	ASB 35 X 80	300.38		12.8				16.0
		90	ASB 35 X 90	267.03		14.4				18.0
		100	ASB 35 X 100	240.35		16.0				20.0
		125	ASB 35 X 125	192.28		20.0				25.0
150	ASB 35 X 150	160.20	24.0	30.0						
175	ASB 35 X 175	137.34	28.0	35.0						
200	ASB 35 X 200	120.17	32.0	40.0						
40	20	40	ASB 40 X 40	784.80	5,020	6.4	5,650	7.2	6,280	8.0
		50	ASB 40 X 50	627.84		8.0				10.0
		60	ASB 40 X 60	523.17		9.6				12.0
		70	ASB 40 X 70	448.42		11.2				14.0
		80	ASB 40 X 80	392.40		12.8				16.0
		90	ASB 40 X 90	348.75		14.4				18.0
		100	ASB 40 X 100	313.92		16.0				20.0
		125	ASB 40 X 125	251.14		20.0				25.0
		150	ASB 40 X 150	209.25		24.0				30.0
		175	ASB 40 X 175	179.33		28.0				35.0
		200	ASB 40 X 200	147.15		32.0				40.0
		250	ASB 40 X 250	125.57		40.0				50.0

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JIS B 5012 SERIES



H	R	Lo	Part No.	P/f	L ₁ 16%		L ₂ 18%		L ₃ 20%			
					N	D	N	D	N	D		
50	25	50	ASB 50 X 50	981.00	7,850	8.0	8,830	9.0	9,810	10.0		
		60	ASB 50 X 60	817.47		9.6					10.8	12.0
		70	ASB 50 X 70	700.63		11.2					12.6	14.0
		80	ASB 50 X 80	613.13		12.8					14.4	16.0
		90	ASB 50 X 90	544.95		14.4					16.2	18.0
		100	ASB 50 X 100	490.50		16.0					18.0	20.0
		125	ASB 50 X 125	392.40		20.0					22.5	25.0
		150	ASB 50 X 150	326.97		24.0					27.0	30.0
		175	ASB 50 X 175	270.46		28.0					31.5	35.0
		200	ASB 50 X 200	245.25		32.0					36.0	40.0
		250	ASB 50 X 250	196.20		40.0					45.0	50.0
300	ASB 50 X 300	163.43	48.0	54.0	60.0							
60	30	60	ASB 60 X 60	1177.20	11,300	9.6	12,710	10.8	14,122	12.0		
		70	ASB 60 X 70	1000.62		11.2					12.6	14.0
		80	ASB 60 X 80	882.90		12.8					14.4	16.0
		90	ASB 60 X 90	784.80		14.4					16.2	18.0
		100	ASB 60 X 100	706.32		16.0					18.0	20.0
		125	ASB 60 X 125	565.06		20.0					22.5	25.0
		150	ASB 60 X 150	470.88		24.0					27.0	30.0
		175	ASB 60 X 175	403.58		28.0					31.5	35.0
		200	ASB 60 X 200	353.16		32.0					36.0	40.0
		250	ASB 60 X 250	282.53		40.0					45.0	50.0
		300	ASB 60 X 300	235.44		48.0					54.0	60.0