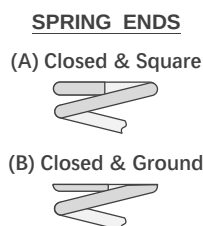
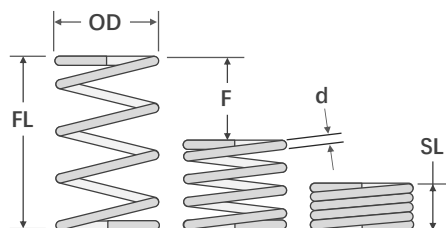


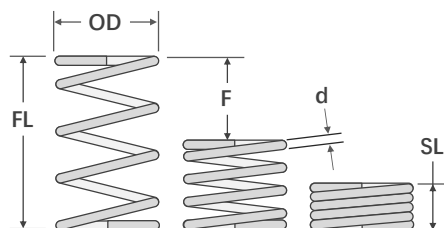
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSV 3-5	3	0.15	5	1.1	0.05	0.005	3.6	0.18	0.018	A
CSV 3-10		0.18	10	2.5			7.0	0.35	0.035	
CSV 3-15		0.18	15	2.5			11.0	0.55	0.055	
CSV 3-20		0.20	20	3.3			14.0	0.70	0.070	
CSV 3-25		0.23	25	6.2			18.0	0.90	0.090	
CSV 3-30		0.23	30	6.2			21.0	1.05	0.105	
CSV 4-5	4	0.18	5	1.2	0.05	0.005	3.6	0.18	0.018	A
CSV 4-10		0.20	10	1.7			7.0	0.35	0.035	
CSV 4-15		0.23	15	3.0			11.0	0.55	0.055	
CSV 4-20		0.23	20	3.0			14.0	0.70	0.070	
CSV 4-25		0.26	25	4.9			18.0	0.90	0.090	
CSV 4-30		0.26	30	4.9			21.0	1.05	0.105	
CSV 5-5	5	0.20	5	1.2	0.05	0.005	3.6	0.18	0.018	A
CSV 5-10		0.23	10	1.8			7.0	0.35	0.035	
CSV 5-15		0.26	15	2.9			11.0	0.55	0.055	
CSV 5-20		0.29	20	4.5			14.0	0.70	0.070	
CSV 5-25		0.29	25	4.5			18.0	0.90	0.090	
CSV 5-30		0.29	30	4.5			21.0	1.05	0.105	
CSV 6-10	6	0.26	10	2.0	0.05	0.005	7.0	0.35	0.035	A
CSV 6-15		0.30	15	3.3			11.0	0.55	0.055	
CSV 6-20		0.30	20	3.3			14.0	0.70	0.070	
CSV 6-25		0.35	25	6.5			18.0	0.90	0.090	
CSV 6-30		0.35	30	6.5			21.0	1.05	0.105	
CSV 6-35		0.35	35	6.5			25.0	1.25	0.125	
CSV 6-40		0.35	40	6.5			28.0	1.40	0.140	
CSV 8-10	8	0.30	10	1.9	0.05	0.005	7.0	0.35	0.035	A
CSV 8-15		0.35	15	3.2			11.0	0.55	0.055	
CSV 8-20		0.35	20	3.2			14.0	0.70	0.070	
CSV 8-25		0.40	25	5.6			18.0	0.90	0.090	
CSV 8-30		0.40	30	5.6			21.0	1.05	0.105	
CSV 8-35		0.40	35	5.6			25.0	1.25	0.125	
CSV 8-40		0.45	40	9.3			28.0	1.40	0.140	
CSV 8-45		0.45	45	9.3			32.0	1.60	0.160	
CSV 8-50		0.45	50	9.3			35.0	1.75	0.175	



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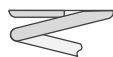
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSY 2-5	2	0.13	5	1.5	0.05	0.005	3.0	0.15	0.015	A
CSY 2-10		0.13	10	1.5			6.0	0.30	0.030	
CSY 2-15		0.15	15	2.7			9.0	0.45	0.045	
CSY 2-20		0.15	20	2.7			12.0	0.60	0.060	
CSY 2-25		0.18	25	6.3			15.0	0.75	0.075	
CSY 2-30		0.18	30	6.3			18.0	0.90	0.090	
CSY 3-5	3	0.16	5	0.9	0.098	0.01	3.8	0.37	0.038	A
CSY 3-10		0.20	10	2.0			7.5	0.74	0.075	
CSY 3-15		0.23	15	3.5			11.3	1.10	0.113	
CSY 3-20		0.23	20	3.5			15.0	1.47	0.150	
CSY 3-25		0.26	25	6.2			15.0	1.47	0.150	
CSY 3-30		0.26	30	6.2			18.0	1.76	0.180	
CSY 4-5	4	0.20	5	1.1	0.098	0.01	3.8	0.37	0.038	A
CSY 4-10		0.23	10	1.8			7.5	0.74	0.075	
CSY 4-15		0.26	15	2.9			11.3	1.10	0.113	
CSY 4-20		0.29	20	4.6			15.0	1.47	0.150	
CSY 4-25		0.30	25	5.4			18.8	1.84	0.188	
CSY 4-30		0.30	30	5.4			22.5	2.21	0.225	
CSY 5-5	5	0.23	5	1.2	0.098	0.01	3.8	0.37	0.038	A
CSY 5-10		0.26	10	1.8			7.5	0.74	0.075	
CSY 5-15		0.30	15	3.2			11.3	1.10	0.113	
CSY 5-20		0.30	20	3.2			15.0	1.47	0.150	
CSY 5-25		0.32	25	4.2			18.8	1.84	0.188	
CSY 5-30		0.32	30	4.2			22.5	2.21	0.225	
CSY 5-35		0.35	35	6.0			26.3	2.57	0.263	
CSY 5-40		0.35	40	6.0			30.0	2.94	0.300	
CSY 6-5	6	0.26	5	1.2	0.098	0.01	3.5	0.34	0.035	A
CSY 6-10		0.30	10	2.1			7.5	0.74	0.075	
CSY 6-15		0.32	15	2.6			11.3	1.10	0.113	
CSY 6-20		0.35	20	3.9			15.0	1.47	0.150	
CSY 6-25		0.38	25	5.3			18.8	1.84	0.188	
CSY 6-30		0.40	30	6.8			22.5	2.21	0.225	
CSY 6-35		0.40	35	6.8			26.3	2.57	0.263	
CSY 6-40		0.40	40	6.8			30.0	2.94	0.300	
CSY 8-10	8	0.35	10	2.2	0.098	0.01	7.5	0.74	0.075	A
CSY 8-15		0.40	15	3.4			11.3	1.10	0.113	
CSY 8-20		0.40	20	3.4			15.0	1.47	0.150	
CSY 8-25		0.45	25	5.4			18.8	1.84	0.188	
CSY 8-30		0.45	30	5.4			22.5	2.21	0.225	
CSY 8-35		0.50	35	8.3			26.3	2.57	0.263	
CSY 8-40		0.50	40	8.3			30.0	2.94	0.300	
CSY 8-45		0.50	45	8.3			33.8	3.31	0.338	
CSY 8-50		0.55	50	12.7			35.0	3.43	0.350	
CSY 10-10	10	0.50	10	3.3	0.2	0.02	6.0	1.20	0.120	A
CSY 10-15		0.50	15	3.3			11.3	2.25	0.225	
CSY 10-20		0.55	20	4.4			15.0	3.00	0.300	
CSY 10-25		0.55	25	4.4			18.8	3.75	0.375	
CSY 10-30		0.60	30	6.2			22.5	4.50	0.450	
CSY 10-35		0.60	35	6.3			26.3	5.25	0.525	
CSY 10-40		0.60	40	6.3			30.0	6.00	0.600	
CSY 10-45		0.65	45	8.5			33.8	6.75	0.675	


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground



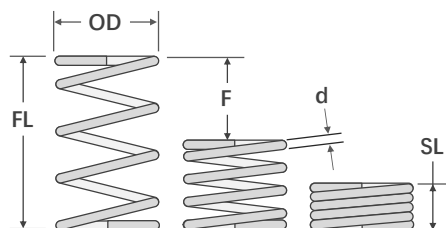
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSY 10-50	10	0.65	50	8.5	0.2	0.02	37.5	7.50	0.750	A
CSY 12-15	12	0.55	15	3.3	0.2	0.02	11.3	2.25	0.225	A
CSY 12-20		0.55	20	3.3			15.0	3.00	0.300	
CSY 12-25		0.60	25	4.2			18.8	3.75	0.375	
CSY 12-30		0.65	30	5.5			22.5	4.50	0.450	
CSY 12-35		0.65	35	5.5			26.3	5.25	0.525	
CSY 12-40		0.70	40	7.4			30.0	6.00	0.600	
CSY 12-45		0.70	45	7.4			33.8	6.75	0.675	
CSY 12-50		0.70	50	7.4			37.5	7.50	0.750	
CSY 12-60		0.80	60	13.6			45.0	9.00	0.900	
CSY 12-70		0.80	70	13.6			52.5	10.50	1.050	
CSY 12-80		0.80	80	13.6			60.0	12.00	1.200	
CSY 13-15	13	0.60	15	3.8	0.2	0.02	10.5	2.10	0.210	A
CSY 13-20		0.60	20	3.8			15.0	3.00	0.300	
CSY 13-25		0.65	25	4.9			18.8	3.75	0.375	
CSY 13-30		0.65	30	4.9			22.5	4.50	0.450	
CSY 13-35		0.70	35	6.3			26.3	5.25	0.525	
CSY 13-40		0.75	40	8.3			30.0	6.00	0.600	
CSY 13-45		0.75	45	8.3			33.8	6.75	0.675	
CSY 13-50		0.80	50	11.2			37.5	7.50	0.750	
CSY 13-60		0.80	60	11.2			45.0	9.00	0.900	
CSY 13-70		0.85	70	14.5			52.5	10.50	1.050	
CSY 13-80		0.85	80	14.5			60.0	12.00	1.200	
CSY 16-15	16	0.70	15	4.2	0.2	0.02	9.0	1.80	0.180	A
CSY 16-20		0.70	20	4.2			15.0	3.00	0.300	
CSY 16-25		0.70	25	4.2			18.8	3.75	0.375	
CSY 16-30		0.75	30	5.4			22.5	4.50	0.450	
CSY 16-35		0.80	35	6.8			26.3	5.25	0.525	
CSY 16-40		0.80	40	6.8			30.0	6.00	0.600	
CSY 16-45		0.85	45	8.5			33.8	6.75	0.675	
CSY 16-50		0.90	50	10.8			37.5	7.50	0.750	
CSY 16-60		0.90	60	10.8			45.0	9.00	0.900	
CSY 16-70		1.00	70	17.0			52.5	10.50	1.050	
CSY 16-80		1.00	80	17.0			60.0	12.00	1.200	
CSY 20-20	20	0.90	20	5.4	0.3	0.03	12.0	3.60	0.360	A
CSY 20-25		0.90	25	5.4			18.8	5.63	0.563	
CSY 20-30		0.90	30	5.4			22.5	6.75	0.675	
CSY 20-35		1.00	35	7.5			26.3	7.88	0.788	
CSY 20-40		1.00	40	7.5			30.0	9.00	0.900	
CSY 20-45		1.00	45	7.5			33.8	10.13	1.013	
CSY 20-50		1.10	50	11.0			37.5	11.25	1.125	
CSY 20-60		1.10	60	11.0			45.0	13.50	1.350	
CSY 20-70		1.20	70	15.6			52.5	15.75	1.575	
CSY 20-80		1.20	80	15.6			60.0	18.00	1.800	

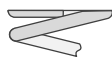
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SPRING ENDS

(A) Closed & Square



(B) Closed & Ground

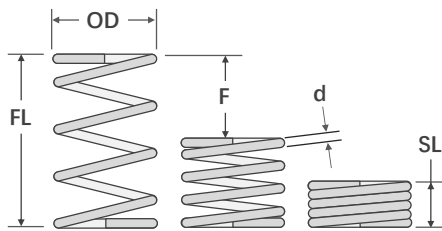


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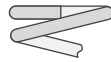
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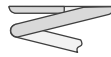
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSR 2-5	2	0.18	5	2.0	0.2	0.02	2.5	0.50	0.05	A
CSR 2-10		0.18	10	2.0			5.0	1.00	0.10	
CSR 2-15		0.23	15	6.0			7.5	1.50	0.15	
CSR 2-20		0.23	20	6.0			10.0	2.00	0.20	
CSR 2-25		0.26	25	11.2			12.5	2.50	0.25	
CSR 2-30		0.26	30	11.2			15.0	3.00	0.30	
CSR 3-5	3	0.23	5	1.6	0.29	0.03	3.0	0.87	0.09	A
CSR 3-10		0.25	10	2.1			6.0	1.74	0.18	
CSR 3-15		0.30	15	4.5			9.0	2.61	0.27	
CSR 3-20		0.30	20	4.5			12.0	3.48	0.36	
CSR 3-25		0.32	25	6.4			15.0	4.35	0.45	
CSR 3-30		0.32	30	6.4			18.0	5.22	0.54	
CSR 3-35		0.35	35	9.8			21.0	6.09	0.63	
CSR 3-40		0.35	40	9.8			24.0	6.96	0.72	
CSR 4-5	4	0.26	5	1.4	0.29	0.03	3.0	0.87	0.09	A
CSR 4-10		0.29	10	2.0			6.0	1.74	0.18	
CSR 4-15		0.32	15	3.0			9.0	2.61	0.27	
CSR 4-20		0.38	20	6.1			12.0	3.48	0.36	
CSR 4-25		0.38	25	6.1			15.0	4.35	0.45	
CSR 4-30		0.40	30	8.0			18.0	5.22	0.54	
CSR 4-35		0.40	35	8.0			21.0	6.09	0.63	
CSR 4-40		0.45	40	14.4			24.0	6.96	0.72	
CSR 4-45		0.45	45	14.4			27.0	7.83	0.81	
CSR 4-50		0.45	50	14.4			30.0	8.70	0.90	
CSR 4-60		0.50	60	23.0			36.0	10.44	1.08	
CSR 5-5	5	0.30	5	1.7	0.29	0.03	3.0	0.87	0.09	A
CSR 5-10		0.35	10	2.7			6.0	1.74	0.18	
CSR 5-15		0.38	15	3.6			9.0	2.61	0.27	
CSR 5-20		0.38	20	3.6			12.0	3.48	0.36	
CSR 5-25		0.45	25	7.4			15.0	4.35	0.45	
CSR 5-30		0.45	30	7.4			18.0	5.22	0.54	
CSR 5-35		0.50	35	12.3			21.0	6.09	0.63	
CSR 5-40		0.50	40	12.3			24.0	6.96	0.72	
CSR 5-45		0.50	45	12.3			27.0	7.83	0.81	
CSR 5-50		0.55	50	19.5			30.0	8.70	0.90	
CSR 5-60		0.55	60	19.5			36.0	10.44	1.08	
CSR 6-5	6	0.32	5	1.5	0.29	0.03	3.0	0.87	0.09	A
CSR 6-10		0.40	10	3.0			6.0	1.74	0.18	
CSR 6-15		0.40	15	3.0			9.0	2.61	0.27	
CSR 6-20		0.50	20	7.0			12.0	3.48	0.36	
CSR 6-25		0.50	25	7.0			15.0	4.35	0.45	
CSR 6-30		0.50	30	7.0			18.0	5.22	0.54	
CSR 6-35		0.55	35	11.0			21.0	6.09	0.63	
CSR 6-40		0.55	40	11.0			24.0	6.96	0.72	
CSR 6-45		0.60	45	17.4			27.0	7.83	0.81	
CSR 6-50		0.60	50	17.4			30.0	8.70	0.90	
CSR 6-60		0.65	60	23.4			36.0	10.44	1.08	
CSR 6-70		0.65	70	23.4			42.0	12.18	1.26	
CSR 8-10	8	0.45	10	2.6	0.29	0.03	6.0	1.74	0.18	A
CSR 8-15		0.50	15	3.6			9.0	2.61	0.27	
CSR 8-20		0.50	20	3.6			12.0	3.48	0.36	


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground

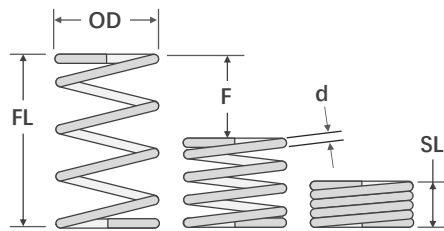


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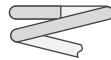
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSR 8-25	8	0.55	25	5.9	0.29	0.03	15	4.35	0.45	A
CSR 8-30		0.65	30	10.4			18	5.22	0.54	
CSR 8-35		0.65	35	10.4			21	6.09	0.63	
CSR 8-40		0.70	40	15.4			24	6.96	0.72	
CSR 10-10	10	0.55	10	3.3	0.29	0.03	6	1.74	0.18	A
CSR 10-15		0.60	15	4.2			9	2.61	0.27	
CSR 10-20		0.65	20	6.2			12	3.48	0.36	
CSR 10-25		0.65	25	6.2			15	4.35	0.45	
CSR 10-30		0.70	30	8.4			18	5.22	0.54	
CSR 10-35		0.70	35	8.4			21	6.09	0.63	
CSR 10-40		0.70	40	8.4			24	6.96	0.72	
CSR 10-45		0.80	45	15.2			27	7.83	0.81	
CSR 10-50		0.80	50	15.2			30	8.70	0.90	
CSR 10-60		0.85	60	20.4			36	10.44	1.08	
CSR 10-70		0.85	70	20.4			42	12.18	1.26	
CSR 10-80		0.85	80	20.4			48	13.92	1.44	
CSR 12-15	12	0.60	15	3.5	0.29	0.03	9	2.61	0.27	A
CSR 12-20		0.70	20	5.6			12	3.48	0.36	
CSR 12-25		0.70	25	5.6			15	4.35	0.45	
CSR 12-30		0.80	30	9.6			18	5.22	0.54	
CSR 12-35		0.80	35	9.6			21	6.09	0.63	
CSR 12-40		0.80	40	9.6			24	6.96	0.72	
CSR 12-45		0.90	45	16.2			27	7.83	0.81	
CSR 12-50		0.90	50	16.2			30	8.70	0.90	
CSR 12-60		0.90	60	16.2			36	10.44	1.08	
CSR 12-70		1.00	70	26.0			42	12.18	1.26	
CSR 12-80		1.00	80	26.0			48	13.92	1.44	
CSR 13-15	13	0.70	15	4.7	0.29	0.03	9	2.61	0.27	A
CSR 13-20		0.70	20	4.7			12	3.48	0.36	
CSR 13-25		0.80	25	8.0			15	4.35	0.45	
CSR 13-30		0.80	30	8.0			18	5.22	0.54	
CSR 13-35		0.80	35	8.0			21	6.09	0.63	
CSR 13-40		0.90	40	12.8			24	6.96	0.72	
CSR 13-45		0.90	45	12.8			27	7.83	0.81	
CSR 13-50		0.90	50	12.8			30	8.70	0.90	
CSR 13-60		1.00	60	21.0			36	10.44	1.08	
CSR 13-70		1.00	70	21.0			42	12.18	1.26	
CSR 13-80		1.00	80	21.0			48	13.92	1.44	
CSR 16-15	16	0.75	15	4.3	0.29	0.03	9	2.61	0.27	A
CSR 16-20		0.80	20	5.4			12	3.48	0.36	
CSR 16-25		0.90	25	7.7			15	4.35	0.45	
CSR 16-30		0.90	30	7.7			18	5.22	0.54	
CSR 16-35		1.00	35	12.0			21	6.09	0.63	
CSR 16-40		1.00	40	12.0			24	6.96	0.72	
CSR 16-45		1.00	45	12.0			27	7.83	0.81	
CSR 16-50		1.10	50	19.0			30	8.70	0.90	
CSR 16-60		1.1	60	19.0			36	10.44	1.08	
CSR 16-70		1.2	70	26.4			42	12.18	1.26	
CSR 16-80		1.2	80	26.4			48	13.92	1.44	
CSR 20-20	20	1.0	20	6.0	0.5	0.05	12	6.00	0.60	A
CSR 20-25		1.1	25	7.7			15	7.50	0.75	

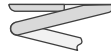


SPRING ENDS

(A) Closed & Square

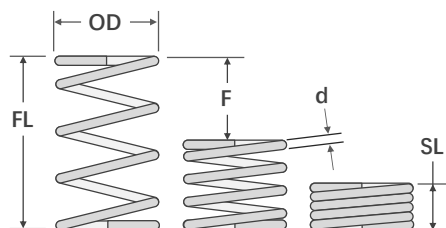


(B) Closed & Ground



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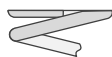
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSR 20-30	20	1.1	30	7.7	0.5	0.05	18	9.0	0.90	A
CSR 20-35		1.2	35	10.8			21	10.5	1.05	
CSR 20-40		1.2	40	10.8			24	12.0	1.20	
CSR 20-45		1.3	45	14.3			27	13.5	1.35	
CSR 20-50		1.3	50	14.3			30	15.0	1.50	
CSR 20-60		1.4	60	19.6			36	18.0	1.80	
CSR 20-70		1.4	70	19.6			42	21.0	2.10	
CSR 20-80		1.5	80	27.0			48	24.0	2.40	


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground



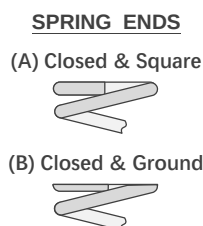
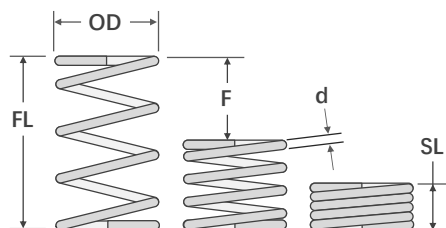
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSF 2-5	2	0.20	5	2.35	0.3	0.03	2.25	0.68	0.07	A
CSF 2-10		0.20	10	2.35			4.50	1.35	0.14	
CSF 2-15		0.26	15	7.80			6.70	2.01	0.20	
CSF 2-20		0.26	20	7.80			9.00	2.70	0.27	
CSF 2-25		0.29	25	13.60			11.20	3.36	0.34	
CSF 2-30		0.29	30	13.60			13.50	4.05	0.41	
CSF 3-5	3	0.26	5	1.80	0.49	0.05	2.25	1.10	0.11	A
CSF 3-10		0.32	10	4.50			4.50	2.21	0.23	
CSF 3-15		0.32	15	4.50			6.70	3.28	0.34	
CSF 3-20		0.35	20	6.30			9.00	4.41	0.45	
CSF 3-25		0.35	25	6.30			11.20	5.49	0.56	
CSF 3-30		0.40	30	12.40			13.50	6.62	0.68	
CSF 3-35		0.40	35	12.40			15.70	7.69	0.79	
CSF 3-40		0.40	40	12.40			18.00	8.82	0.90	
CSF 4-5	4	0.32	5	2.00	0.49	0.05	2.25	1.10	0.11	A
CSF 4-10		0.35	10	3.00			4.50	2.21	0.23	
CSF 4-15		0.40	15	5.20			6.70	3.28	0.34	
CSF 4-20		0.40	20	5.20			9.00	4.41	0.45	
CSF 4-25		0.45	25	9.50			11.20	5.49	0.56	
CSF 4-30		0.45	30	9.50			13.50	6.62	0.68	
CSF 4-35		0.50	35	15.50			15.70	7.69	0.79	
CSF 4-40		0.50	40	15.50			18.00	8.82	0.90	
CSF 4-45		0.50	45	15.50			20.00	9.80	1.00	
CSF 4-50		0.50	50	15.50			22.50	11.03	1.13	
CSF 4-60		0.55	60	22.60			27.00	13.23	1.35	
CSF 5-5	5	0.35	5	2.01	0.49	0.05	2.25	1.10	0.11	A
CSF 5-10		0.40	10	3.20			4.50	2.21	0.23	
CSF 5-15		0.40	15	3.20			6.75	3.31	0.34	
CSF 5-20		0.45	20	4.95			9.00	4.41	0.45	
CSF 5-25		0.45	25	4.95			11.25	5.51	0.56	
CSF 5-30		0.50	30	7.75			13.50	6.62	0.68	
CSF 5-35		0.50	35	7.75			15.75	7.72	0.79	
CSF 5-40	5	0.60	40	19.50	0.49	0.05	18.00	8.82	0.90	B
CSF 5-45		0.60	45	19.50			20.25	9.92	1.01	
CSF 5-50		0.60	50	19.50			22.50	11.03	1.13	
CSF 5-60		0.65	60	27.95			27.00	13.23	1.35	
CSF 6-5	6	0.40	5	2.20	0.49	0.05	2.25	1.10	0.11	A
CSF 6-10		0.50	10	5.00			4.50	2.21	0.23	
CSF 6-15		0.55	15	7.70			6.70	3.28	0.34	
CSF 6-20		0.55	20	7.70			9.00	4.41	0.45	
CSF 6-25		0.60	25	10.80			11.20	5.49	0.56	B
CSF 6-30		0.65	30	15.60			13.50	6.62	0.68	
CSF 6-35		0.65	35	15.60			15.70	7.69	0.79	
CSF 6-40		0.65	40	15.60			18.00	8.82	0.90	
CSF 6-45		0.65	45	15.60			20.00	9.80	1.00	
CSF 6-50		0.70	50	23.10			22.50	11.03	1.13	
CSF 6-60		0.70	60	23.10			27.00	13.23	1.35	
CSF 6-70		0.75	70	30.80			31.50	15.44	1.58	
CSF 8-10	8	0.60	10	5.40	0.49	0.05	4.50	2.21	0.23	B
CSF 8-15		0.65	15	7.20			6.70	3.28	0.34	
CSF 8-20		0.70	20	10.50			9.00	4.41	0.45	

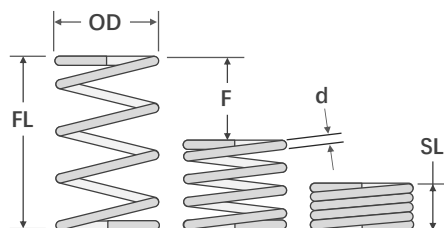
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSF 8-25	8	0.70	25	10.5	0.49	0.05	11.2	5.49	0.56	B
CSF 8-30		0.75	30	13.5			13.5	6.62	0.68	
CSF 8-35		0.75	35	13.5			15.7	7.69	0.79	
CSF 8-40		0.80	40	18.4			18.0	8.82	0.90	
CSF 8-45		0.80	45	18.4			20.0	9.80	1.00	
CSF 8-50		0.80	50	18.4			22.5	11.03	1.13	
CSF 8-60		0.85	60	26.4			27.0	13.23	1.35	
CSF 8-70		0.85	70	26.4			31.5	15.44	1.58	
CSF 8-80		0.85	80	26.4			36.0	17.64	1.80	
CSF 10-10	10	0.65	10	4.6	0.49	0.05	4.5	2.21	0.23	B
CSF 10-15		0.65	15	4.6			6.7	3.28	0.34	
CSF 10-20		0.80	20	9.6			9.0	4.41	0.45	
CSF 10-25		0.80	25	9.6			11.2	5.49	0.56	
CSF 10-30		0.85	30	12.8			13.5	6.62	0.68	
CSF 10-35		0.85	35	12.8			15.7	7.69	0.79	
CSF 10-40		0.90	40	17.0			18.0	8.82	0.90	
CSF 10-45		0.90	45	17.0			20.0	9.80	1.00	
CSF 10-50		0.90	50	17.0			22.5	11.03	1.13	
CSF 10-60		1.00	60	28.0			27.0	13.23	1.35	
CSF 10-70		1.00	70	28.0			31.5	15.44	1.58	
CSF 10-80		1.00	80	28.0			36.0	17.64	1.80	
CSF 12-15	12	0.80	15	6.8	0.49	0.05	6.7	3.28	0.34	B
CSF 12-20		0.80	20	6.8			9.0	4.41	0.45	
CSF 12-25		0.80	25	6.8			11.2	5.49	0.56	
CSF 12-30		0.90	30	10.8			13.5	6.62	0.68	
CSF 12-35		1.00	35	17.0			15.7	7.69	0.79	
CSF 12-40		1.00	40	17.0			18.0	8.82	0.90	
CSF 12-45		1.00	45	17.0			20.0	9.80	1.00	
CSF 12-50		1.10	50	26.4			22.5	11.03	1.13	
CSF 12-60		1.10	60	26.4			27.0	13.23	1.35	
CSF 12-70		1.10	70	26.4			31.5	15.44	1.58	
CSF 12-80		1.20	80	39.6			36.0	17.64	1.80	
CSF 13-15	13	0.80	15	5.6	0.49	0.05	6.7	3.28	0.34	B
CSF 13-20		0.80	20	5.6			9.0	4.41	0.45	
CSF 13-25		0.85	25	7.2			11.2	5.49	0.56	
CSF 13-30		1.00	30	14.0			13.5	6.62	0.68	
CSF 13-35		1.00	35	14.0			15.7	7.69	0.79	
CSF 13-40		1.00	40	14.0			18.0	8.82	0.90	
CSF 13-45		1.10	45	21.5			20.0	9.80	1.00	
CSF 13-50		1.10	50	21.5			22.5	11.03	1.13	
CSF 13-60		1.10	60	21.5			27.0	13.23	1.35	
CSF 13-70		1.20	70	30.0			31.5	15.44	1.58	
CSF 13-80		1.20	80	30.0			36.0	17.64	1.80	
CSF 16-15	16	0.90	15	5.6	0.49	0.05	6.7	3.28	0.34	B
CSF 16-20		1.00	20	7.7			9.0	4.41	0.45	
CSF 16-25		1.00	25	7.7			11.2	5.49	0.56	
CSF 16-30		1.10	30	12.1			13.5	6.62	0.68	
CSF 16-35		1.10	35	12.1			15.7	7.69	0.79	
CSF 16-40		1.20	40	18.0			18.0	8.82	0.90	
CSF 16-45		1.20	45	18.0			20.0	9.80	1.00	
CSF 16-50		1.20	50	18.0			22.5	11.03	1.13	

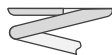


SPRING ENDS

(A) Closed & Square

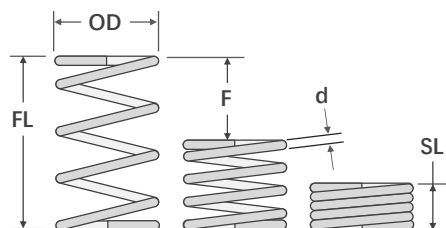


(B) Closed & Ground



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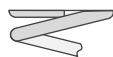
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSF 16-60	16	1.3	60	26.0	0.49	0.05	27.0	13.23	1.35	B
CSF 16-70		1.3	70	26.0			31.5	15.44	1.58	
CSF 16-80		1.4	80	35.0			36.0	17.64	1.80	
CSF 20-20	20	1.2	20	7.2	0.98	0.1	9.0	8.82	0.90	B
CSF 20-25		1.3	25	9.1			11.3	11.07	1.13	
CSF 20-30		1.4	30	11.9			13.5	13.23	1.35	
CSF 20-35		1.4	35	11.9			15.8	15.48	1.58	
CSF 20-40		1.5	40	15.8			18.0	17.64	1.80	
CSF 20-45		1.5	45	15.8			20.3	19.89	2.03	
CSF 20-50		1.6	50	20.8			22.5	22.05	2.25	
CSF 20-60		1.6	60	20.8			27.0	26.46	2.70	
CSF 20-70		1.7	70	26.4			31.5	30.87	3.15	
CSF 20-80		1.7	80	26.4			36.0	35.28	3.60	


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground



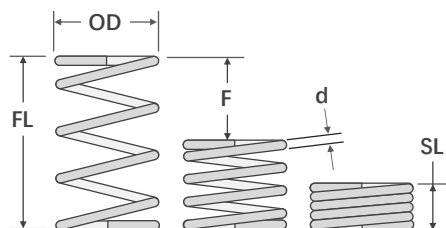
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSL 2-5	2	0.20	5	1.7	0.5	0.05	2	1.00	0.1	A
CSL 2-10		0.26	10	5.1			4	2.00	0.2	
CSL 2-15		0.26	15	5.1			6	3.00	0.3	
CSL 2-20		0.30	20	9.9			8	4.00	0.4	
CSL 2-25		0.32	25	14.1			10	5.00	0.5	
CSL 2-30		0.32	30	14.1			12	6.00	0.6	
CSL 3-5	3	0.30	5	2.0	0.98	0.1	2	1.96	0.2	A
CSL 3-10		0.35	10	3.7			4	3.92	0.4	
CSL 3-15		0.40	15	6.6			6	5.88	0.6	
CSL 3-20		0.40	20	6.6			8	7.84	0.8	
CSL 3-25		0.45	25	11.7			10	9.80	1.0	
CSL 3-30		0.45	30	11.7			12	11.76	1.2	
CSL 3-35		0.45	35	11.7			14	13.72	1.4	
CSL 3-40		0.50	40	20.0			16	15.68	1.6	
CSL 4-5	4	0.35	5	2.1	0.98	0.1	2	1.96	0.2	A
CSL 4-10		0.45	10	5.3			4	3.92	0.4	
CSL 4-15		0.45	15	5.3			6	5.88	0.6	
CSL 4-20		0.50	20	8.0			8	7.84	0.8	
CSL 4-25		0.50	25	8.0			10	9.80	1.0	
CSL 4-30		0.55	30	12.7			12	11.76	1.2	B
CSL 4-35		0.55	35	12.7			14	13.72	1.4	
CSL 4-40		0.60	40	19.8			16	15.68	1.6	
CSL 4-45		0.60	45	19.8			18	17.64	1.8	
CSL 4-50		0.60	50	19.8			20	19.60	2.0	
CSL 4-60		0.65	60	29.9			24	23.52	2.4	
CSL 5-5	5	0.40	5	2.2	0.98	0.1	2	1.96	0.2	A
CSL 5-10		0.50	10	4.8			4	3.92	0.4	
CSL 5-15		0.50	15	4.8			6	5.88	0.6	
CSL 5-20		0.55	20	6.9			8	7.84	0.8	
CSL 5-25		0.55	25	6.9			10	9.80	1.0	B
CSL 5-30		0.65	30	15.0			12	11.76	1.2	
CSL 5-35		0.65	35	15.0			14	13.72	1.4	
CSL 5-40		0.65	40	15.0			16	15.68	1.6	
CSL 5-45		0.70	45	21.7			18	17.64	1.8	
CSL 5-50		0.70	50	21.7			20	19.60	2.0	
CSL 5-60		0.75	60	30.8			24	23.52	2.4	
CSL 6-5	6	0.45	5	2.3	0.98	0.1	2	1.96	0.2	A
CSL 6-10		0.55	10	4.4			4	3.92	0.4	
CSL 6-15		0.55	15	4.4			6	5.88	0.6	
CSL 6-20		0.65	20	8.5			8	7.84	0.8	B
CSL 6-25		0.65	25	8.5			10	9.80	1.0	
CSL 6-30		0.70	30	12.6			12	11.76	1.2	
CSL 6-35		0.70	35	12.6			14	13.72	1.4	
CSL 6-40		0.70	40	12.6			16	15.68	1.6	
CSL 6-45		0.75	45	17.3			18	17.64	1.8	
CSL 6-50		0.75	50	17.3			20	19.60	2.0	
CSL 6-60		0.80	60	24.8			24	23.52	2.4	
CSL 6-70		0.80	70	24.8			28	27.44	2.8	
CSL 8-10	8	0.65	10	4.6	0.98	0.1	4	3.92	0.4	B
CSL 8-15		0.75	15	8.3			6	5.88	0.6	
CSL 8-20		0.75	20	8.3			8	7.84	0.8	

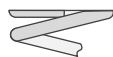
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SPRING ENDS

(A) Closed & Square



(B) Closed & Ground



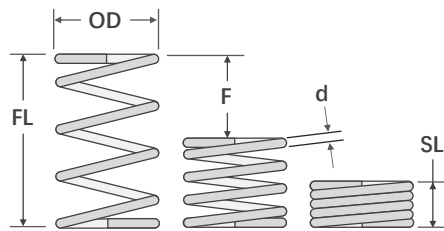
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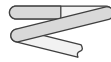
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSL 8-25	8	0.75	25	8.3	0.98	0.1	10	9.80	1.0	B
CSL 8-30		0.80	30	10.4			12	11.76	1.2	
CSL 8-35		0.80	35	10.4			14	13.72	1.4	
CSL 8-40		0.80	40	10.4			16	15.68	1.6	
CSL 8-45		0.85	45	14.5			18	17.64	1.8	
CSL 8-50		0.85	50	14.5			20	19.60	2.0	
CSL 8-60		0.90	60	18.0			24	23.52	2.4	
CSL 8-70		1.00	70	30.0			28	27.44	2.8	
CSL 8-80		1.00	80	30.0			32	31.36	3.2	
CSL 10-10	10	0.75	10	4.7	0.98	0.1	4	3.92	0.4	B
CSL 10-15		0.80	15	6.2			6	5.88	0.6	
CSL 10-20		0.80	20	6.2			8	7.84	0.8	
CSL 10-25		0.90	25	9.5			10	9.80	1.0	
CSL 10-30		0.90	30	9.5			12	11.76	1.2	
CSL 10-35		0.90	35	9.5			14	13.72	1.4	
CSL 10-40		1.00	40	15.5			16	15.68	1.6	
CSL 10-45		1.00	45	15.5			18	17.64	1.8	
CSL 10-50		1.00	50	15.5			20	19.60	2.0	
CSL 10-60		1.10	60	23.7			24	23.52	2.4	
CSL 10-70		1.10	70	23.7			28	27.44	2.8	
CSL 10-80		1.10	80	23.7			32	31.36	3.2	
CSL 12-15	12	0.90	15	6.8	0.98	0.1	6	5.88	0.6	B
CSL 12-20		1.00	20	10.0			8	7.84	0.8	
CSL 12-25		1.00	25	10.0			10	9.80	1.0	
CSL 12-30		1.10	30	14.9			12	11.76	1.2	
CSL 12-35		1.10	35	14.9			14	13.72	1.4	
CSL 12-40		1.20	40	21.6			16	15.68	1.6	
CSL 12-45		1.20	45	21.6			18	17.64	1.8	
CSL 12-50		1.20	50	21.6			20	19.60	2.0	
CSL 12-60		1.30	60	32.5			24	23.52	2.4	
CSL 12-70		1.30	70	32.5			28	27.44	2.8	
CSL 12-80		1.40	80	46.2			32	31.36	3.2	
CSL 13-15	13	0.90	15	5.4	0.98	0.1	6	5.88	0.6	B
CSL 13-20		1.00	20	8.3			8	7.84	0.8	
CSL 13-25		1.00	25	8.3			10	9.80	1.0	
CSL 13-30		1.10	30	12.1			12	11.76	1.2	
CSL 13-35		1.10	35	12.1			14	13.72	1.4	
CSL 13-40		1.10	40	12.1			16	15.68	1.6	
CSL 13-45		1.20	45	16.8			18	17.64	1.8	
CSL 13-50		1.20	50	16.8			20	19.60	2.0	
CSL 13-60		1.20	60	16.8			24	23.52	2.4	
CSL 13-70		1.40	70	35.0			28	27.44	2.8	
CSL 13-80		1.40	80	35.0			32	31.36	3.2	
CSL 16-15	16	1.10	15	7.7	0.98	0.1	6	5.88	0.6	B
CSL 16-20		1.10	20	7.7			8	7.84	0.8	
CSL 16-25		1.20	25	10.8			10	9.80	1.0	
CSL 16-30		1.20	30	10.8			12	11.76	1.2	
CSL 16-35		1.30	35	14.3			14	13.72	1.4	
CSL 16-40		1.30	40	14.3			16	15.68	1.6	
CSL 16-45		1.40	45	19.6			18	17.64	1.8	
CSL 16-50		1.40	50	19.6			20	19.60	2.0	

* * * * *

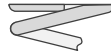


SPRING ENDS

(A) Closed & Square

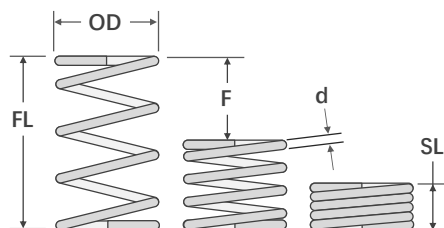


(B) Closed & Ground



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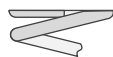
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSL 16-60	16	1.4	60	19.6	0.98	0.1	24	23.52	2.4	B
CSL 16-70		1.5	70	27.0			28	27.44	2.8	
CSL 16-80		1.5	80	27.0			32	31.36	3.2	
CSL 20-20	20	1.6	20	10.4	2.9	0.3	8	23.20	2.4	B
CSL 20-25		1.6	25	10.4			10	29.00	3.0	
CSL 20-30		1.7	30	12.8			12	34.80	3.6	
CSL 20-35		1.7	35	12.8			14	40.60	4.2	
CSL 20-40		1.8	40	15.3			16	46.40	4.8	
CSL 20-45		1.8	45	15.3			18	52.20	5.4	
CSL 20-50		2.0	50	23.0			20	58.00	6.0	
CSL 20-60		2.0	60	23.0			24	69.60	7.2	
CSL 20-70		2.2	70	35.2			28	81.20	8.4	
CSL 20-80		2.2	80	35.2			32	92.80	9.6	


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground



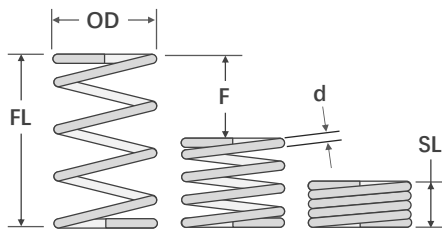
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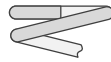
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CST 3-5	3	0.35	5	2.8	1.5	0.15	2	3	0.3	A
CST 3-10		0.40	10	4.8			4	6	0.6	
CST 3-15		0.45	15	8.3			6	9	0.9	
CST 3-20		0.45	20	8.3			6	9	0.9	
CST 3-25		0.50	25	14.0			8	12	1.2	
CST 3-30		0.50	30	14.0			8	12	1.2	
CST 4-5	4	0.40	5	2.6	1.5	0.15	2	3	0.3	A
CST 4-10		0.45	10	3.9			4	6	0.6	
CST 4-15		0.50	15	6.0			6	9	0.9	
CST 4-20		0.55	20	9.4			8	12	1.2	B
CST 4-25		0.60	25	14.4			10	15	1.5	
CST 4-30		0.60	30	14.4			10	15	1.5	
CST 5-5	5	0.45	5	2.6	1.5	0.15	2	3	0.3	A
CST 5-10		0.50	10	3.6			4	6	0.6	
CST 5-15		0.60	15	7.5			6	9	0.9	B
CST 5-20		0.60	20	7.5			8	12	1.2	
CST 5-25		0.65	25	10.7			10	15	1.5	
CST 5-30		0.70	30	15.4			12	18	1.8	B
CST 5-35		0.70	35	15.4			14	21	2.1	
CST 6-5	6	0.50	5	2.4	2	0.2	2	4	0.4	A
CST 6-10		0.60	10	4.2			4	8	0.8	B
CST 6-15		0.70	15	7.4			6	12	1.2	
CST 6-20		0.70	20	7.4			8	16	1.6	
CST 6-25		0.80	25	13.6			10	20	2.0	
CST 6-30		0.80	30	13.6			12	24	2.4	
CST 6-35		0.85	35	17.5			14	28	2.8	
CST 6-40		0.90	40	23.4			16	32	3.2	
CST 6-45		0.90	45	23.4			18	36	3.6	
CST 6-50		0.90	50	23.4			18	36	3.6	
CST 6-60		1.00	60	41.0			18	36	3.6	
CST 6-70		1.00	70	41.0			24	48	4.8	
CST 8-10	8	0.75	10	5.3	2	0.2	4	8	0.8	B
CST 8-15		0.75	15	5.3			6	12	1.2	
CST 8-20		0.90	20	10.4			8	16	1.6	
CST 8-25		0.90	25	10.4			10	20	2.0	
CST 8-30		1.00	30	17.0			12	24	2.4	
CST 8-35		1.00	35	17.0			14	28	2.8	
CST 8-40		1.00	40	17.0			16	32	3.2	
CST 8-45		1.10	45	25.3			18	36	3.6	
CST 8-50		1.10	50	25.3			20	40	4.0	
CST 8-60		1.10	60	25.3			24	48	4.8	
CST 8-70		1.20	70	39.6			28	56	5.6	
CST 10-10	10	0.85	10	5.1	2	0.2	4	8	0.8	B
CST 10-15		0.85	15	5.1			6	12	1.2	
CST 10-20		1.00	20	9.5			8	16	1.6	
CST 10-25		1.00	25	9.5			10	20	2.0	
CST 10-30		1.10	30	14.3			12	24	2.4	
CST 10-35		1.10	35	14.3			14	28	2.8	
CST 10-40		1.20	40	20.4			16	32	3.2	
CST 10-45		1.20	45	20.4			18	36	3.6	
CST 10-50		1.20	50	20.4			20	40	4.0	

* * * * *

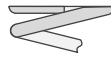


SPRING ENDS

(A) Closed & Square

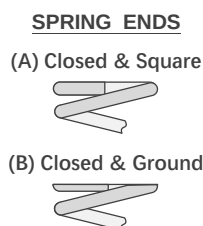
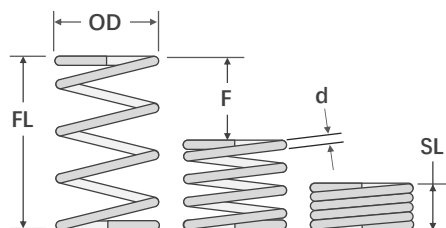


(B) Closed & Ground



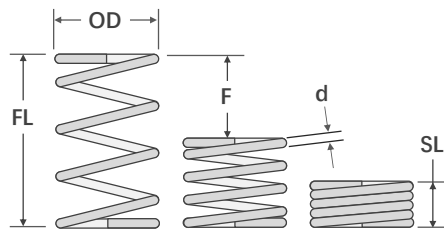
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CST 10-60	10	1.3	60	29.9	2	0.2	24	48.0	4.8	B
CST 10-70		1.4	70	43.4			24	48.0	4.8	
CST 13-15	13	1.0	15	5.8	2	0.2	6	12.0	1.2	B
CST 13-20		1.2	20	10.5			8	16.0	1.6	
CST 13-25		1.2	25	10.5			10	20.0	2.0	
CST 13-30		1.3	30	15.0			12	24.0	2.4	
CST 13-35		1.3	35	15.0			14	28.0	2.8	
CST 13-40		1.4	40	20.3			16	32.0	3.2	
CST 13-45		1.4	45	20.3			18	36.0	3.6	
CST 13-50		1.5	50	27.8			20	40.0	4.0	
CST 13-60		1.5	60	27.8			24	48.0	4.8	
CST 13-70		1.6	70	38.4			28	56.0	5.6	
CST 13-80		1.6	80	38.4			32	64.0	6.4	
CST 16-15	16	1.2	15	7.2	2	0.2	6	12.0	1.2	B
CST 16-20		1.3	20	9.1			8	16.0	1.6	
CST 16-25		1.3	25	9.1			10	20.0	2.0	
CST 16-30		1.4	30	12.3			12	24.0	2.4	
CST 16-35		1.5	35	16.5			14	28.0	2.8	
CST 16-40		1.6	40	21.6			16	32.0	3.2	
CST 16-45		1.6	45	21.6			18	36.0	3.6	
CST 16-50		1.7	50	28.0			20	40.0	4.0	
CST 16-60		1.7	60	28.0			24	48.0	4.8	
CST 16-70		1.8	70	36.0			28	56.0	5.6	
CST 16-80		1.8	80	36.0			32	64.0	6.4	
CST 20-20	20	1.7	20	10.6	3.9	0.4	8	31.2	3.2	B
CST 20-25		1.8	25	12.6			10	39.0	4.0	
CST 20-30		1.8	30	12.6			12	46.8	4.8	
CST 20-35		2.0	35	19.0			14	54.6	5.6	
CST 20-40		2.0	40	19.0			16	62.4	6.4	
CST 20-45		2.0	45	19.0			18	70.2	7.2	
CST 20-50		2.2	50	27.5			20	78.0	8.0	
CST 20-60		2.2	60	27.5			24	93.6	9.6	
CST 20-70		2.3	70	34.5			28	109.2	11.2	
CST 20-80		2.4	80	40.8			32	124.8	12.8	



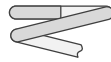
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSM 4-5	4	0.40	5	2.2	2	0.2	1.75	3.5	0.35	A
CSM 4-10		0.50	10	4.9			3.50	7.0	0.70	
CSM 4-15		0.55	15	7.5			5.25	10.5	1.05	B
CSM 4-20		0.60	20	11.1			7.00	14.0	1.40	
CSM 4-25		0.60	25	11.1			8.75	17.5	1.75	
CSM 4-30		0.65	30	16.3			10.50	21.0	2.10	
CSM 5-5	5	0.45	5	2.3	2	0.2	1.75	3.5	0.35	A
CSM 5-10		0.50	10	3.1			3.50	7.0	0.70	
CSM 5-15		0.65	15	8.5			5.25	10.5	1.05	B
CSM 5-20		0.65	20	8.5			7.00	14.0	1.40	
CSM 5-25		0.70	25	11.9			8.75	17.5	1.75	
CSM 5-30		0.70	30	11.9			10.50	21.0	2.10	
CSM 5-35		0.75	35	16.5			12.25	24.5	2.45	
CSM 5-40		0.80	40	23.2			14.00	28.0	2.80	
CSM 5-45		0.80	45	23.2			15.75	31.5	3.15	
CSM 5-50		0.85	50	31.5			17.50	35.0	3.50	
CSM 6-5	6	0.55	5	2.7	2.9	0.3	1.70	4.9	0.51	A
CSM 6-10		0.70	10	5.6			3.50	10.2	1.05	
CSM 6-15		0.75	15	7.4			5.20	15.1	1.56	B
CSM 6-20		0.75	20	7.4			7.00	20.3	2.10	
CSM 6-25		0.85	25	12.8			8.70	25.2	2.61	
CSM 6-30		0.85	30	12.8			10.50	30.5	3.15	
CSM 6-35		0.90	35	16.7			12.20	35.4	3.66	
CSM 6-40		0.90	40	16.8			14.00	40.6	4.20	
CSM 6-45		1.00	45	27.8			15.80	45.8	4.74	
CSM 6-50		1.00	50	28.0			17.50	50.8	5.25	
CSM 6-60		1.00	60	28.0			18.00	52.2	5.40	
CSM 6-70		1.10	70	46.2			20.00	58.0	6.00	
CSM 8-10	8	0.85	10	6.4	2.9	0.3	3.50	10.2	1.05	B
CSM 8-15		0.90	15	7.9			5.20	15.1	1.56	
CSM 8-20		0.90	20	7.9			7.00	20.3	2.10	
CSM 8-25		0.90	25	7.9			8.70	25.2	2.61	
CSM 8-30		1.00	30	12.0			10.50	30.5	3.15	
CSM 8-35		1.00	35	12.0			12.20	35.4	3.66	
CSM 8-40		1.10	40	18.7			14.00	40.6	4.20	
CSM 8-45		1.10	45	18.7			15.80	45.8	4.74	
CSM 8-50		1.10	50	18.7			17.50	50.8	5.25	
CSM 8-60		1.20	60	28.2			21.00	60.9	6.30	
CSM 8-70		1.30	70	42.0			24.50	71.1	7.35	
CSM 10-10	10	0.90	10	5.2	2.9	0.3	3.50	10.2	1.05	B
CSM 10-15		1.00	15	7.3			5.20	15.1	1.56	
CSM 10-20		1.00	20	7.3			7.00	20.3	2.10	
CSM 10-25		1.10	25	10.5			8.70	25.2	2.61	
CSM 10-30		1.10	30	10.5			10.50	30.5	3.15	
CSM 10-35		1.20	35	15.0			12.20	35.4	3.66	
CSM 10-40		1.20	40	15.0			14.00	40.6	4.20	
CSM 10-45		1.30	45	21.8			15.80	45.8	4.74	
CSM 10-50		1.30	50	21.8			17.50	50.8	5.25	
CSM 10-60		1.40	60	30.8			21.00	60.9	6.30	
CSM 10-70		1.40	70	30.8			24.50	71.1	7.35	
CSM 13-15	13	1.20	15	8.4	2.9	0.3	5.20	15.1	1.56	B

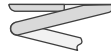


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground

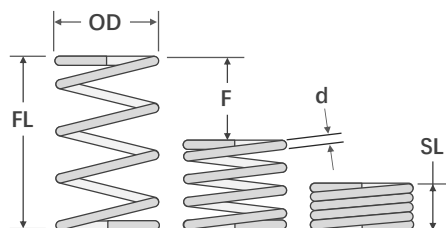


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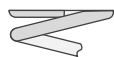
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSM 13-20	13	1.3	20	11.1	2.9	0.3	7.0	20.3	2.10	B
CSM 13-25		1.3	25	11.1			8.7	25.2	2.61	
CSM 13-30		1.4	30	15.1			10.5	30.5	3.15	
CSM 13-35		1.4	35	15.1			12.2	35.4	3.66	
CSM 13-40		1.4	40	15.1			14.0	40.6	4.20	
CSM 13-45		1.4	45	15.1			15.8	45.8	4.74	
CSM 13-50		1.4	50	15.1			17.5	50.8	5.25	
CSM 13-60		1.6	60	27.2			21.0	60.9	6.30	
CSM 13-70		1.6	70	27.2			24.5	71.1	7.35	
CSM 13-80		1.7	80	36.2			28.0	81.2	8.40	
CSM 16-15	16	1.4	15	9.6	2.9	0.3	5.2	15.1	1.56	B
CSM 16-20		1.5	20	12.4			7.0	20.3	2.10	
CSM 16-25		1.5	25	12.4			8.7	25.2	2.61	
CSM 16-30		1.5	30	12.4			10.5	30.5	3.15	
CSM 16-35		1.6	35	15.6			12.2	35.4	3.66	
CSM 16-40		1.6	40	15.6			14.0	40.6	4.20	
CSM 16-45		1.7	45	20.4			15.8	45.8	4.74	
CSM 16-50		1.7	50	20.4			17.5	50.8	5.25	
CSM 16-60		1.8	60	26.1			21.0	60.9	6.30	
CSM 16-70		1.8	70	26.1			24.5	71.1	7.35	
CSM 16-80		1.8	80	26.1			28.0	81.2	8.40	
CSM 20-20	20	1.8	20	11.3	4.9	0.5	7.0	34.3	3.50	B
CSM 20-25		1.9	25	13.3			8.8	43.1	4.40	
CSM 20-30		1.9	30	13.3			10.5	51.5	5.25	
CSM 20-35		2.0	35	16.0			12.3	60.3	6.15	
CSM 20-40		2.0	40	16.0			14.0	68.6	7.00	
CSM 20-45		2.2	45	23.7			15.8	77.4	7.90	
CSM 20-50		2.2	50	23.7			17.5	85.8	8.75	
CSM 20-60		2.2	60	23.7			21.0	102.9	10.50	
CSM 20-70		2.4	70	34.8			24.5	120.1	12.25	
CSM 20-80		2.4	80	34.8			28.0	137.2	14.00	


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground



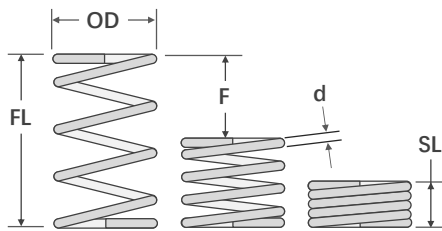
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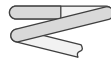
PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSH 4-5	4	0.45	5	2.7	2.9	0.3	1.5	4.4	0.45	A
CSH 4-10		0.50	10	3.8			3.0	8.7	0.90	
CSH 4-15		0.60	15	8.1			4.5	13.1	1.35	B
CSH 4-20		0.65	20	11.7			6.0	17.4	1.80	
CSH 4-25		0.70	25	16.8			7.5	21.8	2.25	
CSH 4-30		0.70	30	16.8			9.0	26.1	2.70	
CSH 5-5	5	0.55	5	3.3	2.9	0.3	1.5	4.4	0.45	A
CSH 5-10		0.60	10	4.7			3.0	8.7	0.90	B
CSH 5-15		0.60	15	4.7			4.5	13.1	1.35	
CSH 5-20		0.75	20	11.8			6.0	17.4	1.80	
CSH 5-25		0.75	25	11.8			7.5	21.8	2.25	
CSH 5-30		0.80	30	16.0			9.0	26.1	2.70	
CSH 5-35		0.85	35	21.7			10.5	30.5	3.15	
CSH 5-40		0.85	40	21.7			12.0	34.8	3.60	
CSH 5-45		0.90	45	28.8			13.5	39.2	4.05	
CSH 6-5	6	0.65	5	3.2	5.9	0.6	1.5	8.9	0.90	A
CSH 6-10		0.70	10	3.9			3.0	17.7	1.80	B
CSH 6-15		0.85	15	7.7			4.5	26.6	2.70	
CSH 6-20		0.90	20	9.7			6.0	35.4	3.60	
CSH 6-25		1.00	25	15.5			7.5	44.3	4.50	
CSH 6-30		1.00	30	15.5			9.0	53.1	5.40	
CSH 6-35		1.10	35	24.8			9.8	57.8	5.88	
CSH 6-40		1.10	40	24.8			10.0	59.0	6.00	
CSH 6-45		1.10	45	24.8			11.3	66.7	6.78	
CSH 6-50		1.20	50	39.0			10.0	59.0	6.00	
CSH 6-60		1.20	60	39.0			14.0	82.6	8.40	
CSH 6-70		1.20	70	39.0			15.0	88.5	9.00	
CSH 8-10	8	0.90	10	5.3	5.9	0.6	3.0	17.7	1.80	B
CSH 8-15		0.90	15	5.3			4.5	26.6	2.70	
CSH 8-20		1.10	20	11.0			6.0	35.4	3.60	
CSH 8-25		1.10	25	11.0			7.5	44.3	4.50	
CSH 8-30		1.20	30	15.9			9.0	53.1	5.40	
CSH 8-35		1.20	35	15.9			10.5	62.0	6.30	
CSH 8-40		1.30	40	23.1			12.0	70.8	7.20	
CSH 8-45		1.30	45	23.1			13.5	79.7	8.10	
CSH 8-50		1.40	50	33.3			15.0	88.5	9.00	
CSH 8-60		1.40	60	33.3			18.0	106.2	10.80	
CSH 8-70		1.50	70	48.0			19.0	112.1	11.40	
CSH 10-10	10	1.10	10	6.9	5.9	0.6	3.0	17.7	1.80	B
CSH 10-15		1.10	15	6.9			4.5	26.6	2.70	
CSH 10-20		1.20	20	9.3			6.0	35.4	3.60	
CSH 10-25		1.20	25	9.3			7.5	44.3	4.50	
CSH 10-30		1.30	30	12.7			9.0	53.1	5.40	
CSH 10-35		1.40	35	17.5			10.5	62.0	6.30	
CSH 10-40		1.40	40	17.5			12.0	70.8	7.20	
CSH 10-45		1.50	45	23.8			13.5	79.7	8.10	
CSH 10-50		1.50	50	23.8			15.0	88.5	9.00	
CSH 10-60		1.60	60	32.4			18.0	106.2	10.80	
CSH 10-70		1.70	70	44.2			21.0	123.9	12.60	
CSH 13-15	13	1.50	15	9.2	9.8	1	4.5	44.1	4.50	B
CSH 13-20		1.50	20	9.2			6.0	58.8	6.00	

* * * * *

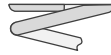


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground

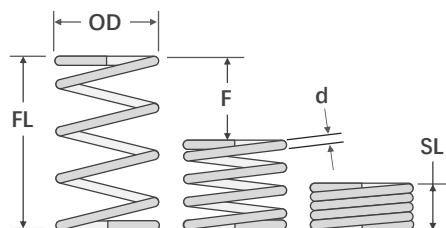


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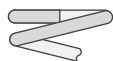
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSH 13-25	13	1.5	25	9.2	9.8	1	7.5	73.5	7.50	B
CSH 13-30		1.8	30	18.0			9.0	88.2	9.00	
CSH 13-35		1.8	35	18.0			10.5	102.9	10.50	
CSH 13-40		1.8	40	18.0			12.0	117.6	12.00	
CSH 13-45		1.8	45	18.0			13.5	132.3	13.50	
CSH 13-50		2.0	50	28.5			15.0	147.0	15.00	
CSH 13-60		2.1	60	36.0			18.0	176.4	18.00	
CSH 13-70		2.2	70	45.1			21.0	205.8	21.00	
CSH 13-80		2.2	80	45.1			20.0	196.0	20.00	
CSH 16-15	16	1.7	15	9.6	9.8	1	4.6	45.1	4.60	B
CSH 16-20		1.9	20	14.0			6.0	58.8	6.00	
CSH 16-25		1.9	25	14.0			7.5	73.5	7.50	
CSH 16-30		1.9	30	14.0			9.0	88.2	9.00	
CSH 16-35		1.9	35	14.0			10.5	102.9	10.50	
CSH 16-40		2.2	40	25.1			12.0	117.6	12.00	
CSH 16-45		2.2	45	25.1			13.5	132.3	13.50	
CSH 16-50		2.2	50	25.1			15.0	147.0	15.00	
CSH 16-60		2.3	60	30.5			18.0	176.4	18.00	
CSH 16-70		2.5	70	44.7			21.0	205.8	21.00	
CSH 16-80		2.5	80	44.7			24.0	235.2	24.00	
CSH 20-25	20	2.3	25	13.8	14.7	1.5	7.5	110.3	11.25	B
CSH 20-30		2.3	30	13.8			9.0	132.3	13.50	
CSH 20-35		2.5	35	18.8			10.5	154.4	15.75	
CSH 20-40		2.5	40	18.8			12.0	176.4	18.00	
CSH 20-45		2.8	45	29.4			13.5	198.5	20.25	
CSH 20-50		2.8	50	29.4			15.0	220.5	22.50	
CSH 20-60		3.0	60	40.5			18.0	264.6	27.00	
CSH 20-70		3.0	70	40.5			21.0	308.7	31.50	
CSH 20-80		3.2	80	54.4			24.0	352.8	36.00	


SPRING ENDS

(A) Closed & Square



(B) Closed & Ground



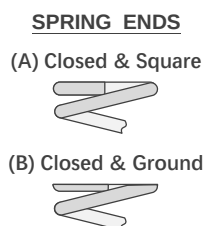
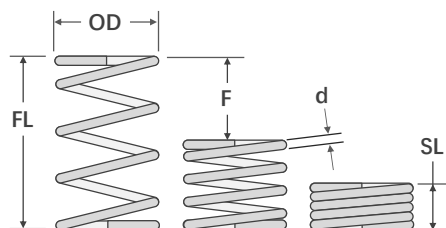
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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSB 4-5	4	0.55	5	3.3	4.9	0.5	1.25	6.1	0.63	A
CSB 4-10		0.65	10	7.0			2.50	12.3	1.25	B
CSB 4-15		0.70	15	10.3			3.75	18.4	1.88	
CSB 4-20		0.75	20	14.4			5.00	24.5	2.50	
CSB 4-25		0.80	25	19.4			5.00	24.5	2.50	
CSB 5-5	5	0.60	5	2.9	4.9	0.5	1.25	6.1	0.63	B
CSB 5-10		0.75	10	6.9			2.50	12.3	1.25	
CSB 5-15		0.80	15	9.8			3.75	18.4	1.88	
CSB 5-20		0.85	20	13.4			5.00	24.5	2.50	
CSB 5-25		0.90	25	17.8			6.25	30.6	3.13	
CSB 5-30		0.90	30	21.8			7.50	36.8	3.75	
CSB 6-5	6	0.80	5	3.6	9.8	1	1.25	12.3	1.25	B
CSB 6-10		0.90	10	6.8			2.50	24.5	2.50	
CSB 6-15		1.00	15	10.5			3.75	36.8	3.75	
CSB 6-20		1.10	20	14.6			5.00	49.0	5.00	
CSB 6-25		1.10	25	17.9			6.25	61.3	6.25	
CSB 6-30		1.20	30	23.1			6.00	58.8	6.00	
CSB 6-35		1.20	35	27.3			7.00	68.6	7.00	
CSB 6-40		1.20	40	31.2			8.00	78.4	8.00	
CSB 6-45		1.30	45	34.8			9.00	88.2	9.00	
CSB 6-50		1.30	50	38.4			10.00	98.0	10.00	
CSB 6-60		1.30	60	44.2			9.00	88.2	9.00	
CSB 6-70		1.40	70	58.5			10.50	102.9	10.50	
CSB 8-10	8	1.10	10	6.9	9.8	1	2.50	24.5	2.50	B
CSB 8-15		1.20	15	9.9			3.75	36.8	3.75	
CSB 8-20		1.30	20	14.0			5.00	49.0	5.00	
CSB 8-25		1.30	25	14.5			6.25	61.3	6.25	
CSB 8-30		1.40	30	21.4			7.50	73.5	7.50	
CSB 8-35		1.40	35	22.0			8.75	85.8	8.75	
CSB 8-40		1.50	40	28.9			10.00	98.0	10.00	
CSB 8-45		1.50	45	32.6			11.25	110.3	11.25	
CSB 10-10	10	1.30	10	7.2	9.8	1	2.50	24.5	2.50	B
CSB 10-15		1.40	15	10.2			3.75	36.8	3.75	
CSB 10-20		1.50	20	13.9			5.00	49.0	5.00	
CSB 10-25		1.50	25	16.1			6.25	61.3	6.25	
CSB 10-30		1.60	30	20.4			7.50	73.5	7.50	
CSB 10-35		1.60	35	22.8			8.75	85.8	8.75	
CSB 10-40		1.70	40	27.2			10.00	98.0	10.00	
CSB 10-45		1.70	45	30.6			11.25	110.3	11.25	
CSB 10-50		1.80	50	36.5			12.50	122.5	12.50	
CSB 10-60		1.80	60	41.4			15.00	147.0	15.00	
CSB 10-70		1.90	70	50.8			17.50	171.5	17.50	
CSB 12-15	12	1.50	15	9.4	9.8	1	3.75	36.8	3.75	B
CSB 12-20		1.60	20	12.4			5.00	49.0	5.00	
CSB 12-25		1.70	25	16.2			6.25	61.3	6.25	
CSB 12-30		1.80	30	20.3			7.50	73.5	7.50	
CSB 12-40		1.90	40	28.0			10.00	98.0	10.00	
CSB 12-50		2.00	50	35.5			12.50	122.5	12.50	
CSB 12-60		2.10	60	43.6			15.00	147.0	15.00	
CSB 12-70		2.10	70	48.8			17.50	171.5	17.50	
CSB 12-80		2.20	80	58.5			20.00	196.0	20.00	

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PART NO.	Outside Diameter (OD)mm	Wire Diameter (d)mm	Free Length (FL)mm	Solid Length (SL)mm	Spring Rate		Sugg. Max. Deflection (F)mm	Approx. Load at (F)		Spring Ends
					N/mm	kgf/mm		N	kgf	
CSB 13-15	13	1.8	15	9.5	19.6	2	3.75	73.5	7.50	B
CSB 13-20		1.9	20	12.9			5.00	98.0	10.00	
CSB 13-25		2.0	25	17.0			6.25	122.5	12.50	
CSB 13-30		2.1	30	20.5			7.50	147.0	15.00	
CSB 13-40		2.3	40	28.2			10.00	196.0	20.00	
CSB 13-45		2.3	45	32.2			11.25	220.5	22.50	
CSB 13-50		2.4	50	36.0			12.50	245.0	25.00	
CSB 13-60		2.5	60	44.4			12.00	235.2	24.00	
CSB 13-70		2.6	70	54.0			14.00	274.4	28.00	
CSB 14-15	14	1.9	15	10.0	19.6	2	3.75	73.5	7.50	B
CSB 14-20		2.0	20	13.5			5.00	98.0	10.00	
CSB 14-25		2.1	25	16.3			6.25	122.5	12.50	
CSB 14-30		2.3	30	21.3			7.50	147.0	15.00	
CSB 14-35		2.3	35	24.7			8.75	171.5	17.50	
CSB 14-40		2.4	40	28.2			10.00	196.0	20.00	
CSB 14-60		2.6	60	43.6			15.00	294.0	30.00	
CSB 14-80		2.7	80	61.4			16.00	313.6	32.00	
CSB 16-15	16	2.0	15	10.0	19.6	2	3.75	73.5	7.50	B
CSB 16-20		2.1	20	12.1			5.00	98.0	10.00	
CSB 16-25		2.3	25	17.3			6.25	122.5	12.50	
CSB 16-30		2.4	30	21.0			7.50	147.0	15.00	
CSB 16-35		2.5	35	24.4			8.75	171.5	17.50	
CSB 16-40		2.6	40	28.0			10.00	196.0	20.00	
CSB 16-45		2.7	45	31.7			11.25	220.5	22.50	
CSB 16-50		2.7	50	35.8			12.50	245.0	25.00	
CSB 16-60		2.9	60	43.5			15.00	294.0	30.00	
CSB 16-70		2.9	70	49.4			17.50	343.0	35.00	
CSB 16-80		3.0	80	59.3			16.00	313.6	32.00	
CSB 20-25	20	2.9	25	16.7	29.4	3	6.25	183.8	18.75	B
CSB 20-30		3.0	30	20.3			7.50	220.5	22.50	
CSB 20-35		3.0	35	22.7			8.75	257.3	26.25	
CSB 20-40		3.2	40	27.2			10.00	294.0	30.00	
CSB 20-45		3.2	45	29.6			9.00	264.6	27.00	
CSB 20-50		3.4	50	38.3			10.00	294.0	30.00	
CSB 20-60		3.5	60	44.6			12.00	352.8	36.00	

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