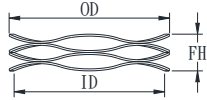




TECH SPRING MANUFACTURING CORP.



TSMS41.9 series Wave spring (Mechanical seals)

Raw Material: SUS316L

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Part No.	OD Outer diameter		ID Inner diameter		FH Free Height*		WH Work Height		Load		Spring rate*		Unit weight	
	mm	in	mm	in	mm	in	mm	in	Kg	N	Kg/mm	N/mm	g/pcs	N/Kpcs
TSMS41.9-16	21.3	0.839	18.0	0.709	6.7	0.2638	2.5	0.0984	3.78	37	0.90	8.8	0.94	9.2
TSMS41.9-18	23.4	0.921	18.6	0.733	5.6	0.2205	2.5	0.0984	5.09	50	1.64	16.1	1.64	16.1
TSMS41.9-19	25.1	0.988	20.3	0.800	6.9	0.2717	2.5	0.0984	5.62	55	1.28	12.5	1.78	17.5
TSMS41.9-20	27.2	1.071	22.9	0.901	6.6	0.2598	2.7	0.1063	5.39	53	1.38	13.6	2.10	20.6
TSMS41.9-24	29.2	1.150	24.8	0.977	7.9	0.311	3	0.1181	6.08	60	1.24	12.2	2.39	23.4
TSMS41.9-25	30.3	1.193	25.4	1.001	8.6	0.3386	3	0.1181	7.14	70	1.28	12.5	2.75	27.0
TSMS41.9-28	33.3	1.311	28.82	1.135	8.7	0.3425	3	0.1181	7.12	70	1.25	12.3	3.23	31.7
TSMS41.9-30	35	1.378	31.2	1.228	8.45	0.3327	3	0.1181	7.63	75	1.40	13.7	2.22	21.7
TSMS41.9-32	38.1	1.5	33.78	1.330	7.8	0.3071	3	0.1181	8.18	80	1.70	16.7	3.02	29.6
TSMS41.9-33	38.1	1.5	33.78	1.330	7.8	0.3071	3	0.1181	8.18	80	1.70	16.7	3.02	29.6
TSMS41.9-35	40	1.575	35.68	1.405	9	0.3543	3	0.1181	8.71	85	1.45	14.2	3.19	31.3
TSMS41.9-38	44.3	1.744	39.06	1.538	8.8	0.3465	3	0.1181	10.23	100	1.76	17.3	4.66	45.7
TSMS41.9-40	46.2	1.819	40.96	1.613	9.85	0.3878	3	0.1181	10.51	103	1.53	15.1	4.88	47.9
TSMS41.9-43	49	1.929	44.22	1.741	9.05	0.3563	3	0.1181	11.26	110	1.86	18.2	3.67	36.0
TSMS41.9-45	51	2.008	46.22	1.820	8.85	0.3484	3	0.1181	11.70	115	2.00	19.6	4.09	40.1
TSMS41.9-48	54	2.126	49.68	1.956	9.1	0.3583	3	0.1181	12.20	120	2.00	19.6	4.36	42.8
TSMS41.9-50	56.1	2.209	51.22	2.017	8.75	0.3445	3	0.1181	13.25	130	2.30	22.6	5.29	51.9
TSMS41.9-53	59.1	2.327	53.86	2.120	8.5	0.3346	3	0.1181	13.79	135	2.51	24.6	6.30	61.8
TSMS41.9-55	61.1	2.406	55.86	2.199	9.35	0.3681	3	0.1181	14.30	140	2.25	22.1	6.54	64.1
TSMS41.9-58	65.5	2.579	59.5	2.343	10.18	0.4008	3.5	0.1378	18.36	180	2.75	26.9	8.72	85.5
TSMS41.9-60	67.4	2.654	61.4	2.417	11.04	0.4346	3.5	0.1378	18.88	185	2.50	24.6	9.00	88.2
TSMS41.9-63	70.3	2.768	65.06	2.561	9.7	0.3819	3.5	0.1378	19.857	195	3.20	31.4	7.58	74.4
TSMS41.9-65	72.2	2.843	66.96	2.636	10.45	0.4114	3.5	0.1378	20.441	200	2.94	28.8	7.81	76.6
TSMS41.9-68	75.4	2.969	69.92	2.753	9.5	0.374	3.5	0.1378	20.949	205	3.49	34.2	9.25	90.7
TSMS41.9-70	77.6	3.055	71.6	2.819	9.52	0.3748	3.5	0.1378	21.371	210	3.55	34.8	10.39	101.9
TSMS41.9-75	82.6	3.252	76.1	2.996	11.46	0.4512	3.5	0.1378	25.476	250	3.20	31.4	12.02	117.9
TSMS41.9-80	87.7	3.453	82.22	3.237	9.92	0.3906	3.5	0.1378	27.055	265	4.21	41.3	10.83	106.2
TSMS41.9-85	92.6	3.646	86.6	3.409	10.75	0.4232	3.5	0.1378	28.59	280	3.94	38.7	12.52	122.8
TSMS41.9-90	97.3	3.831	90.8	3.575	11.77	0.4634	3.5	0.1378	30.614	300	3.70	36.3	14.26	139.8
TSMS41.9-95	102.7	4.043	97.22	3.828	9.2	0.3622	3.5	0.1378	32.644	320	5.73	56.2	12.71	124.7
TSMS41.9-100	107.5	4.232	101.5	3.996	10.12	0.3984	4	0.1575	33.675	330	5.50	54.0	14.57	142.9
TSMS40.9-110	118	4.646	111	4.370	10.48	0.4126	5.5	0.2165	36.931	362	7.42	72.7	16.39	160.7

Free height* & spring rate* are theoretical dimensions.

MADE IN TAIWAN