

# ISO 10243 Light Load Die springs



www.simf-parts.com

Material	Colour	Code									
Special alloy	Green	SIL									
L	T										
25~89	±1mm										
102~305	±1%										
Order NO.	DH	Do	Lo	R (N/mm)	25%		30%		40%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIL10x25	10	5	25	10.0	6.3	63	7.5	75	10.0	100	13.5
SIL10x32			32	8.5	8.0	68	9.6	82	12.8	109	17.5
SIL10x38			38	6.8	9.5	65	11.4	78	15.2	103	20.8
SIL10x44			44	6.0	11.0	66	13.2	79	17.6	106	23.9
SIL10x51			51	5.0	12.8	64	15.3	77	20.4	102	28.9
SIL10x64			64	4.3	16.0	69	19.2	83	25.6	110	36.1
SIL10x76			76	3.2	19.0	61	22.8	73	30.4	97	43.2
SIL10x305			305	1.1	76.3	84	91.5	101	122.0	134	178.7
SIL12.5x25	12.5	6.3	25	17.9	6.3	113	7.5	134	10.0	179	13.2
SIL12.5x32			32	16.4	8.0	131	9.6	157	12.8	210	18.0
SIL12.5x38			38	13.6	9.5	129	11.4	155	15.2	207	21.0
SIL12.5x44			44	12.1	11.0	133	13.2	160	17.6	213	24.0
SIL12.5x51			51	11.4	12.8	146	15.3	174	20.4	233	28.7
SIL12.5x64			64	9.3	16.0	149	19.2	179	25.6	238	35.8
SIL12.5x76			76	7.1	19.0	135	22.8	162	30.4	216	42.7
SIL12.5x89			89	5.4	22.3	120	26.7	144	35.6	192	50.4
SIL12.5x305			305	1.4	76.3	107	91.5	128	122.0	171	172.0

Order NO.	DH	Do	Lo	R (N/mm)	25%		30%		40%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIL16x25	16	8	25	23.4	6.3	147	7.5	176	10.0	234	12.6
SIL16x32			32	22.9	8.0	183	9.6	220	12.8	293	16.4
SIL16x38			38	19.3	9.5	183	11.4	220	15.2	293	19.7
SIL16x44			44	17.1	11.0	188	13.2	226	17.6	301	22.5
SIL16x51			51	15.7	12.8	201	15.3	240	20.4	320	26.3
SIL16x64			64	10.7	16.0	171	19.2	205	25.6	274	33.3
SIL16x76			76	10.0	19.0	190	22.8	228	30.4	304	40.2
SIL16x89			89	8.6	22.3	192	26.7	230	35.6	306	47.6
SIL16x102			102	7.8	25.5	199	30.6	239	40.8	318	55.4
SIL16x305			305	2.5	76.3	191	91.5	229	122.0	305	165.3
SIL20x25	20	10	25	55.8	6.3	352	7.5	353	10.0	558	12.1
SIL20x32			32	45.0	8.0	360	9.6	419	12.8	576	15.3
SIL20x38			38	33.3	9.5	316	11.4	432	15.2	506	18.9
SIL20x44			44	30.0	11.0	330	13.2	380	17.6	528	21.5
SIL20x51			51	24.5	12.8	314	15.3	396	20.4	500	25.0
SIL20x64			64	20.0	16.0	320	19.2	375	25.6	512	31.1
SIL20x76			76	16.0	19.0	304	22.8	384	30.4	486	37.3
SIL20x89			89	14.0	22.3	312	26.7	365	35.6	498	44.5
SIL20x102			102	12.0	25.5	306	30.6	374	40.8	490	51.1
SIL20x115			115	10.9	28.8	314	34.5	367	46.0	501	58.2
SIL20x127			127	9.5	31.8	302	38.1	362	50.8	483	64.9
SIL20x139			139	8.4	35.0	294	42.0	353	56.0	470	71.5
SIL20x152			152	7.5	38.0	285	45.6	342	60.8	456	78.8
SIL20x305			305	4.0	76.3	305	91.5	366	122.0	488	157.4

Order NO.	DH	Do	Lo	R (N/mm)	25%		30%		40%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIL25x25	25	12.5	25	100.0	6.3	630	7.5	750	10.0	1000	12.1
SIL25x32			32	80.3	8.0	642	9.6	771	12.8	1028	15.2
SIL25x38			38	62.0	9.5	589	11.4	707	15.2	942	18.3
SIL25x44			44	52.9	11.0	582	13.2	698	17.6	931	21.4
SIL25x51			51	44.0	12.8	563	15.3	673	20.4	898	24.9
SIL25x64			64	35.2	16.0	563	19.2	676	25.6	901	31.4
SIL25x76			76	28.0	19.0	532	22.8	638	30.4	851	37.5
SIL25x89			89	24.0	22.3	535	26.7	641	35.6	854	43.5
SIL25x102			102	21.1	25.5	538	30.6	646	40.8	861	51.1
SIL25x115			115	18.7	28.8	539	34.5	645	46.0	860	58.1
SIL25x127			127	16.7	31.8	531	38.1	636	50.8	848	64.1
SIL25x139			139	15.3	35.0	536	42.0	643	56.0	857	70.4
SIL25x152			152	14.0	38.0	532	45.6	638	60.8	851	77.1
SIL25x178			178	12.5	44.5	556	53.4	668	71.2	890	93.1
SIL25x203			203	10.4	50.8	528	60.9	633	81.2	844	102.7
SIL25x305	305	7.0	76.3	534	91.5	641	122.0	854	155.9		
SIL32x38	32	16	38	94.0	9.5	893	11.4	1072	15.2	1429	18.3
SIL32x44			44	79.5	11.0	875	13.2	1049	17.6	1399	21.5
SIL32x51			51	67.0	12.8	858	15.3	1025	20.4	1367	25.5
SIL32x64			64	53.0	16.0	848	19.2	1018	25.6	1357	31.9
SIL32x76			76	44.0	19.0	836	22.8	1003	30.4	1338	38.6
SIL32x89			89	37.2	22.3	830	26.7	993	35.6	1324	46.5
SIL32x102			102	32.0	25.5	816	30.6	979	40.8	1306	53.2
SIL32x115			115	29.0	28.8	835	34.5	1001	46.0	1334	60.0
SIL32x127			127	25.0	31.8	795	38.1	953	50.8	1270	66.7
SIL32x139			139	23.0	35.0	805	42.0	966	56.0	1288	71.8
SIL32x152			152	21.5	38.0	817	45.6	980	60.8	1307	78.5
SIL32x178			178	18.2	44.5	810	53.4	972	71.2	1296	94.4
SIL32x203			203	15.8	50.8	803	60.9	962	81.2	1283	107.1
SIL32x254			254	12.5	63.5	794	76.2	953	101.6	1270	136.5
SIL32x305			305	10.3	76.3	786	91.5	942	122.0	1257	162.7

Order NO.	DH	Do	Lo	R (N/mm)	25%		30%		40%		Travel stroke		
					S1	F1	S2	F2	Sn	Fn			
SIL40x51	40	20	51	92.0	12.8	1178	15.3	1408	20.4	1877	25.5		
SIL40x64			64	73.0	16.0	1168	19.2	1402	25.6	1869	31.4		
SIL40x76			76	36.0	19.0	1197	22.8	1436	30.4	1915	37.8		
SIL40x89			89	51.0	22.3	1137	26.7	1362	35.6	1816	44.3		
SIL40x102			102	43.0	25.5	1097	30.6	1316	40.8	1754	50.7		
SIL40x115			115	39.6	28.8	1140	34.5	1366	46.0	1822	58.1		
SIL40x127			127	37.0	31.8	1177	38.1	1410	50.8	1880	64.6		
SIL40x139			139	32.0	35.0	1120	42.0	1344	56.0	1792	70.1		
SIL40x152			152	28.0	38.0	1064	45.6	1277	60.8	1702	76.6		
SIL40x178			178	25.2	44.5	1121	53.4	1346	71.2	1794	90.4		
SIL40x203			203	22.7	50.8	1153	60.9	1382	81.2	1843	102.4		
SIL40x254			254	17.0	63.5	1080	76.2	1295	101.6	1727	128.8		
SIL40x305			305	14.8	76.3	1129	91.5	1354	122.0	1086	156.1		
SIL50x64			50	25	64	156.0	16.0	2496	19.2	2995	25.6	3994	31.0
SIL50x76	76	125.0			19.0	2375	22.8	2850	30.4	3800	37.2		
SIL50x89	89	109.0			22.3	2431	26.7	2910	35.6	3880	43.6		
SIL50x102	102	94.0			25.5	2397	30.6	2876	40.8	3835	50.3		
SIL50x115	115	81.0			28.8	2333	34.5	2795	46.0	3726	58.1		
SIL50x127	127	71.0			31.8	2258	38.1	2705	50.8	3607	63.7		
SIL50x139	139	66.5			35.0	2328	42.0	2793	56.0	3724	69.5		
SIL50x152	152	60.0			38.0	2280	45.6	2736	60.8	3648	76.5		
SIL50x178	178	52.0			44.5	2314	53.4	2777	71.2	3702	91.9		
SIL50x203	203	44.0			50.8	2235	60.9	2680	81.2	3573	104.7		
SIL50x254	254	35.0			63.5	2223	76.2	2667	101.6	3556	130.6		
SIL50x305	305	28.5			76.3	2175	91.5	2608	122.0	3477	154.9		
SIL63x76	63	38			76	189.0	19.0	3591	22.8	4309	30.4	5746	36.5
SIL63x89					89	158.0	22.3	3523	26.7	4219	35.6	5625	43.4
SIL63x102			102	131.0	25.5	3341	30.6	4009	40.8	5345	49.7		
SIL63x115			115	116.0	28.8	3341	34.5	4002	46.0	5336	55.6		
SIL63x127			127	103.0	31.8	3275	38.1	3924	50.8	5232	62.7		
SIL63x152			152	84.3	38.0	3203	45.6	3844	60.8	5125	77.1		
SIL63x178			178	71.5	44.5	3182	53.4	3818	71.2	5091	92.2		
SIL63x203			203	61.7	50.8	3134	60.9	3725	81.2	5010	103.5		
SIL63x254			254	47.0	63.5	2985	76.2	3581	101.6	4775	130.4		
SIL63x305			305	38.2	76.3	2915	91.5	3495	122.0	4660	157.4		