

# ISO 10243 Medium Load Die springs



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Material	Colour	Code									
Special alloy	Blue	SIM	DD: Comply with H15 standards DH: Comply with H15 standard The tolerance standard is similar to DIN2095 S1: Long service life compression S2: Average life compression SN: Maximum working stroke Smax: Compaction stroke								
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	
SIM10x25	10	5	25	16.0	6.3	101	7.5	120	9.4	150	10.2
SIM10x32			32	13.0	8.0	104	9.6	125	12.0	156	14.2
SIM10x38			38	11.9	9.5	113	11.4	136	14.3	170	16.8
SIM10x44			44	10.3	11.0	113	13.2	136	16.5	170	19.4
SIM10x51			51	8.9	12.8	114	15.3	136	19.1	170	23.4
SIM10x64			64	7.5	16.0	120	19.2	144	24.0	180	28.2
SIM10x76			76	5.3	19.0	101	22.8	121	28.5	151	34.2
SIM10x305			305	1.6	76.3	122	91.5	146	114.4	183	133.8
SIM12.5x25	12.5	6.3	25	30.0	6.3	189	7.5	225	9.4	282	11.9
SIM12.5x32			32	24.8	8.0	198	9.6	238	12.0	298	16.2
SIM12.5x38			38	21.4	9.5	203	11.4	244	14.3	306	18.7
SIM12.5x44			44	18.5	11.0	204	13.2	244	16.5	305	21.3
SIM12.5x51			51	15.5	12.8	198	15.3	237	19.1	296	25.6
SIM12.5x64			64	12.1	16.0	194	19.2	232	24.0	290	32.4
SIM12.5x76			76	10.2	19.0	194	22.8	233	28.5	291	39.0
SIM12.5x89			89	8.4	22.3	187	26.7	224	33.4	281	45.9
SIM12.5x305			305	2.1	76.3	160	91.5	192	114.4	240	152.5

Order NO.	DH	Do	Lo	R (N/mm)	25%		30%		40%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIM16x25	16	8	25	49.4	6.3	311	7.5	371	9.4	464	10.5
SIM16x32			32	37.1	8.0	297	9.6	356	12.0	445	13.2
SIM16x38			38	33.9	9.5	322	11.4	386	14.3	485	17.2
SIM16x44			44	30.0	11.0	330	13.2	396	16.5	495	19.4
SIM16x51			51	26.4	12.8	338	15.3	404	19.1	504	24.2
SIM16x64			64	20.5	16.0	328	19.2	394	24.0	492	29.2
SIM16x76			76	17.8	19.0	338	22.8	406	28.5	507	36.3
SIM16x89			89	15.2	22.3	339	26.7	406	33.4	508	41.7
SIM16x102			102	13.5	25.5	344	30.6	413	38.3	517	48.9
SIM16x305			305	4.8	76.3	366	91.5	439	114.4	549	141.6
SIM20x25			20	10	25	98.0	6.3	617	7.5	735	9.4
SIM20x32	32	72.6			8.0	581	9.6	697	12.0	871	13.9
SIM20x38	38	56.0			9.5	532	11.4	638	14.3	801	16.6
SIM20x44	44	47.5			11.0	523	13.2	627	16.5	784	18.8
SIM20x51	51	41.7			12.8	534	15.3	638	19.1	796	23.1
SIM20x64	64	32.3			16.0	517	19.2	620	24.0	775	27.5
SIM20x76	76	25.1			19.0	477	22.8	572	28.5	715	33.8
SIM20x89	89	22.0			22.3	491	26.7	587	33.4	735	39.7
SIM20x102	102	19.8			25.5	505	30.6	606	38.3	758	47.3
SIM20x115	115	18.1			28.8	521	34.5	624	43.1	780	52.5
SIM20x127	127	16.6			31.8	528	38.1	632	47.6	790	56.9
SIM20x139	139	15.1			35.0	529	42.0	634	52.5	793	62.1
SIM20x152	152	13.2			38.0	500	45.6	600	57.0	750	67.6
SIM20x305	305	6.1			76.3	465	91.5	558	114.4	698	143.4

Order NO.	DH	Do	Lo	R (N/mm)	25%		30%		40%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIM25x25	25	12.5	25	147.0	6.3	926	7.5	1103	9.4	1382	10.2
SIM25x32			32	118.0	8.0	944	9.6	1133	12.0	1416	13.7
SIM25x38			38	93.0	9.5	884	11.4	1060	14.3	1330	15.7
SIM25x44			44	80.8	11.0	889	13.2	1067	16.5	1333	18.2
SIM25x51			51	68.6	12.8	878	15.3	1050	19.1	1310	21.7
SIM25x64			64	53.0	16.0	848	19.2	1018	24.0	1272	26.0
SIM25x76			76	43.2	19.0	821	22.8	985	28.5	1231	31.3
SIM25x89			89	38.2	22.3	852	26.7	1020	33.4	1276	38.0
SIM25x102			102	33.0	25.5	842	30.6	1010	38.3	1264	43.0
SIM25x115			115	28.0	28.8	806	34.5	966	43.1	1207	48.6
SIM25x127			127	25.9	31.8	824	38.1	987	47.6	1233	53.7
SIM25x139			139	23.2	35.0	812	42.0	974	52.5	1218	59.4
SIM25x152			152	20.8	38.0	790	45.6	948	57.0	1186	63.8
SIM25x178			178	17.8	44.5	792	53.4	951	66.8	1189	76.6
SIM25x203			203	15.8	50.8	803	60.9	962	76.1	1202	88.4
SIM25x305	305	10.2	76.3	778	91.5	933	114.4	1167	135.1		
SIM32x38	32	16	38	185.0	9.5	1758	11.4	2109	14.3	2646	16.3
SIM32x44			44	158.0	9.5	1738	13.2	2086	16.5	2607	19.8
SIM32x51			51	134.0	11.0	1715	15.3	2050	19.1	2559	23.1
SIM32x64			64	99.0	12.8	1584	19.2	1901	24.0	2376	28.5
SIM32x76			76	80.5	16.0	1530	22.8	1835	28.5	2294	34.2
SIM32x89			89	69.1	19.0	1541	26.7	1845	33.4	2308	40.4
SIM32x102			102	58.8	22.3	1499	30.6	1799	38.3	2252	48.0
SIM32x115			115	51.5	25.5	1483	34.5	1777	43.1	2220	54.3
SIM32x127			127	44.8	28.8	1425	38.1	1707	47.6	2132	59.2
SIM32x139			139	42.3	31.8	1481	42.0	1777	52.5	2221	65.3
SIM32x152			152	37.8	35.0	1436	45.6	1724	57.0	2155	73.0
SIM32x178			178	32.5	38.0	1446	53.4	1736	66.8	2171	84.5
SIM32x203			203	28.9	44.5	1468	60.9	1760	76.1	2199	96.9
SIM32x254			254	21.4	50.8	1359	76.2	1631	95.3	2039	120.9
SIM32x305			305	18.3	76.3	1396	91.5	1674	114.4	2094	146.9

Order NO.	DH	Do	Lo	R (N/mm)	25%		30%		40%		Travel stroke
					S1	F1	S2	F2	Sn	Fn	
SIM40x51	40	20	51	181.6	12.8	2324	15.3	2778	19.1	3469	21.4
SIM40x64			64	140.0	16.0	2240	19.2	2688	24.0	3360	26.8
SIM40x76			76	108.0	19.0	2052	22.8	2462	28.5	3078	32.7
SIM40x89			89	90.7	22.3	2023	26.7	2422	33.4	3029	39.0
SIM40x102			102	81.0	25.5	2066	30.6	2479	38.3	3102	44.1
SIM40x115			115	71.8	28.8	2068	34.5	2477	43.1	3095	50.6
SIM40x127			127	62.7	31.8	1994	38.1	2389	47.6	2985	55.9
SIM40x139			139	57.5	35.0	2013	42.0	2415	52.5	3019	61.8
SIM40x152			152	51.6	38.0	1961	45.6	2353	57.0	2941	67.5
SIM40x178			178	44.1	44.5	1962	53.4	2355	66.8	2946	77.2
SIM40x203			203	36.7	50.8	1864	60.9	2235	76.1	2793	91.8
SIM40x254			254	30.1	63.5	1911	76.2	2294	95.3	2869	112.7
SIM40x305			305	24.6	76.3	1877	91.5	2251	114.4	2814	138.1
SIM50x64			50	25	64	209.0	16.0	3344	19.2	4013	24.0
SIM50x76	76	168.0			19.0	3192	22.8	3830	28.5	4788	34.9
SIM50x89	89	140.0			22.3	3122	26.7	3738	33.4	4676	39.2
SIM50x102	102	119.0			25.5	3035	30.6	3641	38.3	4558	47.3
SIM50x115	115	106.0			28.8	3053	34.5	3657	43.1	4569	52.6
SIM50x127	127	97.0			31.8	3085	38.1	3696	47.6	4617	59.8
SIM50x139	139	87.0			35.0	3045	42.0	3654	52.5	4568	65.1
SIM50x152	152	80.0			38.0	3040	45.6	3648	57.0	4560	70.8
SIM50x178	178	69.5			44.5	3093	53.4	3711	66.8	4643	84.2
SIM50x203	203	59.8			50.8	3038	60.9	3642	76.1	4551	96.6
SIM50x229	229	50.9			57.3	2917	68.7	3497	85.9	4372	108.5
SIM50x254	254	43.9			63.5	2788	76.2	3345	95.3	4184	121.8
SIM50x305	305	38.6			76.3	2945	91.5	3532	114.4	4416	146.8
SIM63x76	63	38			76	312.0	19.0	5928	22.8	7114	28.5
SIM63x89			89	260.0	22.3	5798	26.7	6942	33.4	8684	36.5
SIM63x102			102	221.0	25.5	5636	30.6	6763	38.3	8464	43.6
SIM63x115			115	187.0	28.8	5386	34.5	6452	43.1	8060	48.9
SIM63x127			127	168.0	31.8	5342	38.1	6401	47.6	7997	54.2
SIM63x152			152	136.0	38.0	5168	45.6	6202	57.0	7752	65.7
SIM63x178			178	114.0	44.5	5073	53.4	6088	66.8	7615	76.5
SIM63x203			203	100.0	50.8	5080	60.9	6090	76.1	7610	88.0
SIM63x229			229	89.2	57.3	5111	68.7	6128	85.9	7662	103.9
SIM63x254			254	78.4	63.5	4978	76.2	5974	95.3	7472	112.4
SIM63x305			305	64.7	76.3	4937	91.5	5920	114.4	7402	133.8