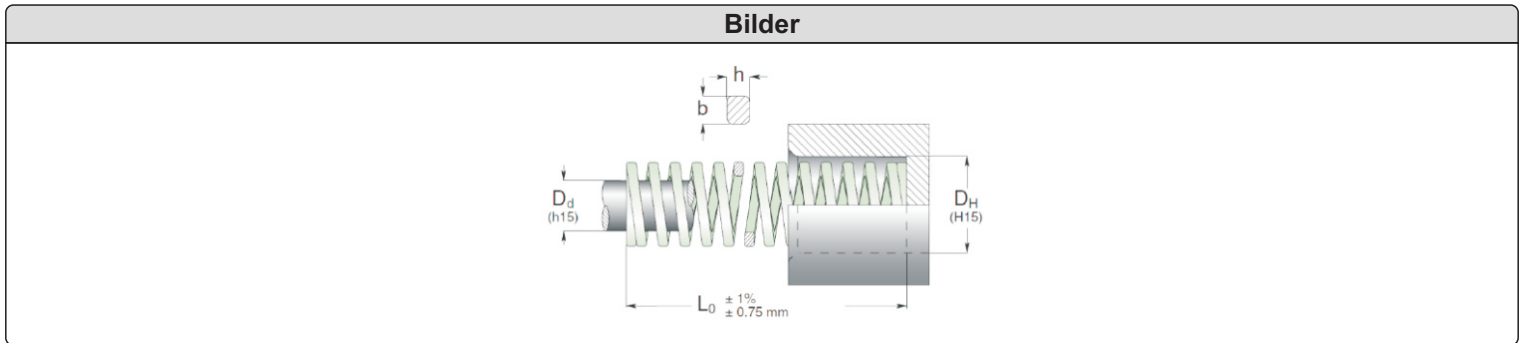


Artikelnummer	Beschreibung
F0	Feder für sehr leichte Belastung

Informationen
Farbe Hellgrün



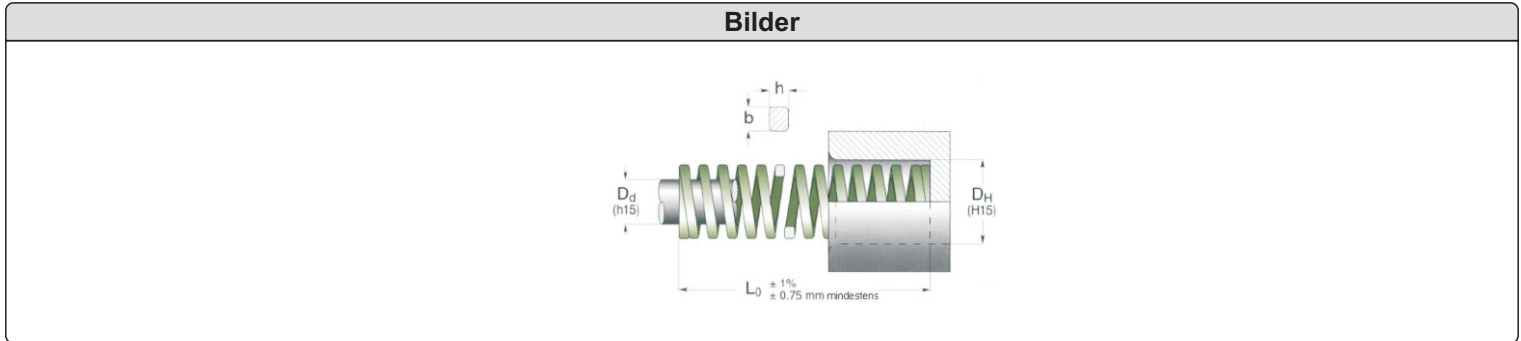
Bestellbeispiel
F-20102-0 = F- Durchmesser DH 20mm, Länge Lo 102mm, Hellgrün

Code	D _H	D _d	L ₀	R	A	B	C	D	E						
	Hole Diameter	Rod Diameter								Free Length	Spring Constant	30% L ₀	40% L ₀	45% L ₀	50% L ₀
	b x h			± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	nicht verwenden						
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm				
F-20025-0	20	10	25	29.4	7.5	221	10.0	294	11.3	331	12.5	368	13.9		
F-20032-0			32	22.6	9.6	217	12.8	289	14.4	325	16.0	362	18.2		
F-20038-0			38	18.6	11.4	212	15.2	283	17.1	318	19.0	353	22.0		
F-20044-0			44	15.7	13.2	207	17.6	276	19.8	311	22.0	345	25.8		
F-20051-0			51	13.7	15.3	210	20.4	279	23.0	314	25.5	349	30.3		
F-20064-0			64	11.3	19.2	217	25.6	289	28.8	325	32.0	362	38.9		
F-20076-0			76	9.8	22.8	223	30.4	298	34.2	335	38.0	372	47.0		
F-20089-0			89	8.3	26.7	222	35.6	295	40.1	332	44.5	369	55.7		
F-20102-0			102	7.4	30.6	226	40.8	302	45.9	340	51.0	377	64.2		
F-20115-0			115	6.4	34.5	221	46.0	294	51.8	331	57.5	368	72.9		
F-20127-0			127	5.9	38.1	225	50.8	300	57.2	337	63.5	375	80.7		
F-20139-0			139	5.4	41.7	225	55.6	300	62.6	338	69.5	375	88.4		
F-20152-0			152	4.9	45.6	223	60.8	298	68.4	335	76.0	372	96.7		
F-20305-0			3.9 x 1.7	305	2.5	229	91.5	229	122	305	137	343	153	381	196
F-25025-0	25	12.5	25	53.9	7.5	404	10.0	539	11.3	606	12.5	674	12.9		
F-25032-0			32	42.2	9.6	405	12.8	540	14.4	608	16.0	675	17.2		
F-25038-0			38	35.8	11.4	408	15.2	544	17.1	612	19.0	680	20.7		
F-25044-0			44	31.4	13.2	414	17.6	553	19.8	622	22.0	691	24.4		
F-25051-0			51	27.0	15.3	413	20.4	551	23.0	620	25.5	689	28.5		
F-25064-0			64	21.6	19.2	415	25.6	553	28.8	622	32.0	691	36.5		
F-25076-0			76	18.1	22.8	413	30.4	550	34.2	619	38.0	688	43.9		
F-25089-0			89	15.2	26.7	406	35.6	541	40.1	609	44.5	676	51.4		
F-25102-0			102	13.2	30.6	404	40.8	539	45.9	606	51.0	673	59.3		
F-25115-0			115	11.8	34.5	407	46.0	543	51.8	611	57.5	679	67.2		
F-25127-0			127	10.6	38.1	404	50.8	538	57.2	606	63.5	673	74.4		
F-25139-0			139	9.6	41.7	400	55.6	534	62.6	600	69.5	667	81.6		
F-25152-0			152	8.8	45.6	401	60.8	535	68.4	602	76.0	669	89.5		
F-25178-0			178	7.6	53.4	406	71.2	541	80.1	609	89.0	676	105		
F-25203-0			203	6.7	60.9	408	81.2	544	91.4	612	102	680	121		
F-25305-0			5.4 x 2.2	305	4.4	403	91.5	403	122	537	137	604	153	671	182

Code	D_H		L_0	R	A		B		C		D		E		
	Hole Diameter	Rod Diameter			30% L_0		40% L_0		45% L_0		50% L_0				
	b x h				Free Length	Spring Constant	+ 3.000.000		~ 1.500.000		300 - 500.000			100 - 200.000	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm		
F-32038-0	32	16	38	43.1	11.4	491	15.2	655	17.1	737	19.0	819	19.9		
F-32044-0			44	37.3	13.2	492	17.6	656	19.8	739	22.0	821	23.5		
F-32051-0			51	32.4	15.3	496	20.4	661	23.0	744	25.5	826	27.6		
F-32064-0			64	25.5	19.2	490	25.6	653	28.8	734	32.0	816	35.2		
F-32076-0			76	21.6	22.8	492	30.4	657	34.2	739	38.0	821	42.4		
F-32089-0			89	18.1	26.7	483	35.6	644	40.1	725	44.5	805	50.0		
F-32102-0			102	15.7	30.6	480	40.8	641	45.9	721	51.0	801	57.6		
F-32115-0			115	14.2	34.5	490	46.0	653	51.8	735	57.5	817	65.5		
F-32127-0			127	12.7	38.1	484	50.8	645	57.2	726	63.5	806	72.5		
F-32139-0			139	11.6	41.7	484	55.6	645	62.6	726	69.5	806	79.4		
F-32152-0			152	10.6	45.6	483	60.8	644	68.4	725	76.0	806	87.3		
F-32178-0			178	9.0	53.4	481	71.2	641	80.1	721	89.0	801	103		
F-32203-0			203	7.8	60.9	475	81.2	633	91.4	713	102	792	118		
F-32254-0			254	6.4	76.2	488	102	650	114	732	127	813	148		
			6.5 x 2.6	305	5.3	91.5	485	122	647	137	727	153	808	178	
F-40051-0			40	20	51	48.1	15.3	736	20.4	981	23.0	1104	25.5	1227	28.0
F-40064-0	64	39.2			19.2	753	25.6	1004	28.8	1129	32.0	1254	36.2		
F-40076-0	76	33.3			22.8	759	30.4	1012	34.2	1139	38.0	1265	43.7		
F-40089-0	89	28.4			26.7	758	35.6	1011	40.1	1137	44.5	1264	51.7		
F-40102-0	102	24.5			30.6	750	40.8	1000	45.9	1125	51.0	1250	59.8		
F-40115-0	115	22.1			34.5	762	46.0	1017	51.8	1144	57.5	1271	67.9		
F-40127-0	127	19.6			38.1	747	50.8	996	57.2	1120	63.5	1245	75.2		
F-40139-0	139	17.7			41.7	738	55.6	984	62.6	1107	69.5	1230	82.4		
F-40152-0	152	16.2			45.6	739	60.8	985	68.4	1108	76.0	1231	90.6		
F-40178-0	178	13.7			53.4	732	71.2	975	80.1	1097	89.0	1219	106		
F-40203-0	203	12.3			60.9	749	81.2	999	91.4	1124	101	1248	122		
F-40254-0	254	9.8			76.2	747	102	996	114	1120	127	1245	154		
F-40305-0	8.0 x 3.4	305			8.3	91.5	759	122	1013	137	1139	152	1266	185	
F-50064-0	50	25			64	86.3	19.2	1657	25.6	2209	28.8	2485	32.0	2762	35.1
F-50076-0					76	70.6	22.8	1610	30.4	2146	34.2	2415	38.0	2683	42.2
F-50089-0					89	59.8	26.7	1597	35.6	2129	40.1	2395	44.5	2661	50.3
F-50102-0			102	52.0	30.6	1591	40.8	2122	45.9	2387	51.0	2652	58.4		
F-50115-0			115	46.1	34.5	1590	46.0	2121	51.8	2386	57.5	2651	66.1		
F-50127-0			127	42.2	38.1	1608	50.8	2144	57.2	2412	63.5	2680	73.8		
F-50139-0			139	38.2	41.7	1593	55.6	2124	62.6	2389	69.5	2655	80.9		
F-50152-0			152	34.3	45.6	1564	60.8	2085	68.4	2346	76.0	2607	89.0		
F-50178-0			178	29.4	53.4	1570	71.2	2093	80.1	2355	89.0	2617	105		
F-50203-0			203	25.5	60.9	1553	81.2	2071	91.4	2329	101	2588	121		
F-50254-0			254	20.6	76.2	1570	102	2093	114	2355	127	2616	152		
F-50305-0			10.5 x 4.1	305	17.2	91.5	1574	122	2098	137	2361	152	2623	184	







Artikelnummer	Beschreibung
F1	Feder für leichte Belastung







Informationen
Baugleich Fibro: 241.14. Farbe Grün



Bestellbeispiel
F-20102-1 = F- Durchmesser DH 20mm, Länge Lo 102mm, Grün

Code	D _H	D _d	L ₀	R	A		B		C		D		E
					25% L ₀	N	30% L ₀	N	35% L ₀	N	40% L ₀	N	nicht verwenden
b x h		± 10%		+ 3.000.000	~ 1.500.000		300 - 500.000		100 - 200.000		max.		
mm mm		mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	
F-10025-1	10	5	25	10	6.3	63	7.5	75	8.8	88	10.0	100	13.5
F-10032-1			32	8.5	8.0	68	9.6	82	11.2	95	12.8	109	17.5
F-10038-1			38	6.8	9.5	65	11.4	78	13.3	90	15.2	103	20.8
F-10044-1			44	6.0	11.0	66	13.2	79	15.4	92	17.6	106	23.9
F-10051-1			51	5.0	12.8	64	15.3	77	17.9	89	20.4	102	28.9
F-10064-1			64	4.3	16.0	69	19.2	83	22.4	96	25.6	110	36.1
F-10076-1			76	3.2	19.0	61	22.8	73	26.6	85	30.4	97	43.2
F-10305-1			1.7 x 1.1	305	1.1	76.3	84	91.5	101	107	117	122	134
F-13025-1	12.5	6.3	25	17.9	6.3	113	7.5	134	8.8	157	10.0	179	13.2
F-13032-1			32	16.4	8.0	131	9.6	157	11.2	184	12.8	210	18.0
F-13038-1			38	13.6	9.5	129	11.4	155	13.3	181	15.2	207	21.0
F-13044-1			44	12.1	11.0	133	13.2	160	15.4	186	17.6	213	24.0
F-13051-1			51	11.4	12.8	146	15.3	174	17.9	203	20.4	233	28.7
F-13064-1			64	9.3	16.0	149	19.2	179	22.4	208	25.6	238	35.8
F-13076-1			76	7.1	19.0	135	22.8	162	26.6	189	30.4	216	42.7
F-13089-1			89	5.4	22.3	120	26.7	144	31.2	168	35.6	192	50.4
F-13102-1	102	4.1	25.5	105	30.6	125	35.7	146	40.8	167	58.4		
F-13305-1	2.4 x 1.4	305	1.4	76.3	107	91.5	128	107	149	122	171	172	
F-16025-1	16	8	25	23.4	6.3	147	7.5	176	8.8	205	10.0	234	12.6
F-16032-1			32	22.9	8.0	183	9.6	220	11.2	256	12.8	293	16.4
F-16038-1			38	19.3	9.5	183	11.4	220	13.3	257	15.2	293	19.7
F-16044-1			44	17.1	11.0	188	13.2	226	15.4	263	17.6	301	22.5
F-16051-1			51	15.7	12.8	201	15.3	240	17.9	280	20.4	320	26.3
F-16064-1			64	10.7	16.0	171	19.2	205	22.4	240	25.6	274	33.3
F-16076-1			76	10.0	19.0	190	22.8	228	26.6	266	30.4	304	40.2
F-16089-1			89	8.6	22.3	192	26.7	230	31.2	268	35.6	306	47.6
F-16102-1	102	7.8	25.5	199	30.6	239	35.7	278	40.8	318	55.4		
F-16115-1	115	6.6	28.8	190	34.5	228	40.3	266	46.0	304	60.8		
F-16305-1	3.2 x 1.5	305	2.5	76.3	191	91.5	229	107	267	122	305	165	

Code	D _H	D _d	L ₀	R		A		B		C		D		E	
					25% L ₀	30% L ₀	35% L ₀	40% L ₀		max.					
b x h				± 10%	+ 3.000.000	N	~ 1.500.000	N	300 - 500.000	N	100 - 200.000	N	nicht verwenden		
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm		
F-20025-1	20	10	25	55.8	6.3	352	7.5	419	8.8	488	10.0	558	12.1		
F-20032-1			32	45.0	8.0	360	9.6	432	11.2	504	12.8	576	15.3		
F-20038-1			38	33.3	9.5	316	11.4	380	13.3	443	15.2	506	18.9		
F-20044-1			44	30.0	11.0	330	13.2	396	15.4	462	17.6	528	21.5		
F-20051-1			51	24.5	12.8	314	15.3	375	17.9	437	20.4	500	25.0		
F-20064-1			64	20.0	16.0	320	19.2	384	22.4	448	25.6	512	31.1		
F-20076-1			76	16.0	19.0	304	22.8	365	26.6	426	30.4	486	37.3		
F-20089-1			89	14.0	22.3	312	26.7	374	31.2	436	35.6	498	44.5		
F-20102-1			102	12.0	25.5	306	30.6	367	35.7	428	40.8	490	51.1		
F-20115-1			115	10.9	28.8	314	34.5	376	40.3	439	46.0	501	58.2		
F-20127-1			127	9.5	31.8	302	38.1	362	44.5	422	50.8	483	64.9		
F-20139-1			139	8.4	35.0	294	42.0	353	48.7	409	56.0	470	71.5		
F-20152-1			152	7.5	38.0	285	45.6	342	53.2	399	60.8	456	78.8		
F-20305-1			4.0 x 2.1	305	4.0	76.3	305	91.5	366	107	427	122	488	157	
F-25025-1			25	12.5	25	100	6.3	630	7.5	750	8.8	875	10.0	1000	11.9
F-25032-1					32	80.3	8.0	642	9.6	771	11.2	899	12.8	1028	16.0
F-25038-1					38	62.0	9.5	589	11.4	707	13.3	825	15.2	942	18.3
F-25044-1	44	52.9			11.0	582	13.2	698	15.4	815	17.6	931	21.4		
F-25051-1	51	44.0			12.8	563	15.3	673	17.9	785	20.4	898	24.9		
F-25064-1	64	35.2			16.0	563	19.2	676	22.4	788	25.6	901	31.4		
F-25076-1	76	28.0			19.0	532	22.8	638	26.6	745	30.4	851	37.5		
F-25089-1	89	24.0			22.3	535	26.7	641	31.2	748	35.6	854	43.5		
F-25102-1	102	21.1			25.5	538	30.6	646	35.7	753	40.8	861	51.1		
F-25115-1	115	18.7			28.8	539	34.5	645	40.3	753	46.0	860	58.1		
F-25127-1	127	16.7			31.8	531	38.1	636	44.5	742	50.8	848	64.1		
F-25139-1	139	15.3			35.0	536	42.0	643	48.7	744	56.0	857	70.4		
F-25152-1	152	14.0			38.0	532	45.6	638	53.2	745	60.8	851	77.1		
F-25178-1	178	12.5			44.5	556	53.4	668	62.3	779	71.2	890	93.1		
F-25203-1	203	10.4			50.8	528	60.9	633	71.1	739	81.2	844	103		
F-25305-1	5.4 x 2.7	305			7.0	76.3	534	91.5	641	107	747	122	854	156	
F-32038-1	32	16			38	94.0	9.5	893	11.4	1072	13.3	1250	15.2	1429	18.3
F-32044-1			44	79.5	11.0	875	13.2	1049	15.4	1224	17.6	1399	21.5		
F-32051-1			51	67.0	12.8	858	15.3	1025	17.9	1196	20.4	1367	25.5		
F-32064-1			64	53.0	16.0	848	19.2	1018	22.4	1187	25.6	1357	31.9		
F-32076-1			76	44.0	19.0	836	22.8	1003	26.6	1170	30.4	1338	38.6		
F-32089-1			89	37.2	22.3	830	26.7	993	31.2	1159	35.6	1324	46.5		
F-32102-1			102	32.0	25.5	816	30.6	979	35.7	1142	40.8	1306	53.2		
F-32115-1			115	29.0	28.8	835	34.5	1001	40.3	1167	46.0	1334	60.0		
F-32127-1			127	25.0	31.8	795	38.1	953	44.5	1111	50.8	1270	66.7		
F-32139-1			139	23.0	35.0	805	42.0	966	48.7	1119	56.0	1288	71.8		
F-32152-1			152	21.5	38.0	817	45.6	980	53.2	1144	60.8	1307	78.5		
F-32178-1			178	18.2	44.5	810	53.4	972	62.3	1134	71.2	1296	94.4		
F-32203-1			203	15.8	50.8	803	60.9	962	71.1	1123	81.2	1283	107		
F-32254-1			254	12.5	63.5	794	76.2	953	88.9	1111	102	1270	136		
F-32305-1			6.8 x 3.3	305	10.3	76.3	786	91.5	942	107	1100	122	1257	163	
F-40051-1			40	20	51	92.0	12.8	1178	15.3	1408	17.9	1642	20.4	1877	25.5
F-40064-1					64	73.0	16.0	1168	19.2	1402	22.4	1635	25.6	1869	31.4
F-40076-1	76	63.0			19.0	1197	22.8	1436	26.6	1676	30.4	1915	37.8		
F-40089-1	89	51.0			22.3	1137	26.7	1362	31.2	1589	35.6	1816	44.3		
F-40102-1	102	43.0			25.5	1097	30.6	1316	35.7	1535	40.8	1754	50.7		
F-40115-1	115	39.6			28.8	1140	34.5	1366	40.3	1594	46.0	1822	58.1		
F-40127-1	127	37.0			31.8	1177	38.1	1410	44.5	1645	50.8	1880	64.6		
F-40139-1	139	32.0			35.0	1120	42.0	1344	48.7	1557	56.0	1792	70.1		
F-40152-1	152	28.0			38.0	1064	45.6	1277	53.2	1490	60.8	1702	76.6		
F-40178-1	178	25.2			44.5	1121	53.4	1346	62.3	1570	71.2	1794	90.4		
F-40203-1	203	22.7			50.8	1153	60.9	1382	71.1	1613	81.2	1843	102		
F-40254-1	254	17.0			63.5	1080	76.2	1295	88.9	1511	102	1727	129		
F-40305-1	8.1 x 4.0	305			14.8	76.3	1129	91.5	1354	107	1580	122	1806	156	

Code	D _H	D _d	L ₀	R	A		B		C		D		E	
					 25% L ₀	N	 30% L ₀	N	 35% L ₀	N	 40% L ₀	N	  max.	
b x h		± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	nicht verwenden							
mm	mm						mm	N/mm	mm	N	mm	N		
F-50064-1	50	25	64	156	16.0	2496	19.2	2995	22.4	3494	25.6	3994	31.0	
F-50076-1			76	125	19.0	2375	22.8	2850	26.6	3325	30.4	3800	37.2	
F-50089-1			89	109	22.3	2431	26.7	2910	31.2	3395	35.6	3880	43.6	
F-50102-1			102	94.0	25.5	2397	30.6	2876	35.7	3356	40.8	3835	50.3	
F-50115-1			115	81.0	28.8	2333	34.5	2795	40.3	3260	46.0	3726	58.1	
F-50127-1			127	71.0	31.8	2258	38.1	2705	44.5	3156	50.8	3607	63.7	
F-50139-1			139	66.5	35.0	2328	42.0	2793	48.7	3235	56.0	3724	69.5	
F-50152-1			152	60.0	38.0	2280	45.6	2736	53.2	3192	60.8	3648	76.5	
F-50178-1			178	52.0	44.5	2314	53.4	2777	62.3	3240	71.2	3702	91.9	
F-50203-1			203	44.0	50.8	2235	60.9	2680	71.1	3126	81.2	3573	105	
F-50254-1			254	35.0	63.5	2223	76.2	2667	88.9	3112	102	3556	131	
F-50305-1			10.9 x 5.3	305	28.5	76.3	2175	91.5	2608	107	3042	122	3477	155
F-63076-1			63	38	76	189	19.0	3591	22.8	4309	26.6	5027	30.4	5746
F-63089-1	89	158			22.3	3523	26.7	4219	31.2	4922	35.6	5625	43.4	
F-63102-1	102	131			25.5	3341	30.6	4009	35.7	4677	40.8	5345	49.7	
F-63115-1	115	116			28.8	3341	34.5	4002	40.3	4669	46.0	5336	55.6	
F-63127-1	127	103			31.8	3275	38.1	3924	44.5	4578	50.8	5232	62.7	
F-63152-1	152	84.3			38.0	3203	45.6	3844	53.2	4485	60.8	5125	77.1	
F-63178-1	178	71.5			44.5	3182	53.4	3818	62.3	4454	71.2	5091	92.2	
F-63203-1	203	61.7			50.8	3134	60.9	3758	71.1	4384	81.2	5010	103	
F-63254-1	254	47.0			63.5	2985	76.2	3581	88.9	4178	102	4775	130	
F-63305-1	11.0 x 7.8	305			38.2	76.3	2915	91.5	3495	107	4078	122	4660	157


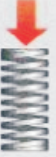




Artikelnummer	Beschreibung
F2	Feder für mittlere Belastung

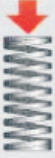
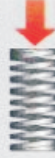
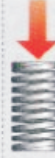



Informationen
Baugleich Fibro 241.15. Farbe Blau

Bilder

Bestellbeispiel
F-20102-2 = F- Durchmesser DH 20mm, Länge Lo 102mm, Blau

Code	D _H	D _d	L ₀	R	A		B		C		D		E
					25% L ₀	30% L ₀	33.75% L ₀	37.5% L ₀	nicht verwenden				
	b x h			± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000					
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
F-10025-2	10	5	25	16.0	6.3	101	7.5	120	8.4	135	9.4	150	10.2
F-10032-2			32	13.0	8.0	104	9.6	125	10.8	140	12.0	156	14.2
F-10038-2			38	11.9	9.5	113	11.4	136	12.8	153	14.3	170	16.8
F-10044-2			44	10.3	11.0	113	13.2	136	14.9	153	16.5	170	19.4
F-10051-2			51	8.9	12.8	114	15.3	136	17.2	153	19.1	170	23.4
F-10064-2			64	7.5	16.0	120	19.2	144	21.6	162	24.0	180	28.2
F-10076-2			76	5.3	19.0	101	22.8	121	25.7	136	28.5	151	34.2
F-10305-2			1.9 x 1.3	305	1.6	76.3	122	91.5	146	103	165	114	183
F-13025-2	12.5	6.3	25	30.0	6.3	189	7.5	225	8.4	253	9.4	282	11.9
F-13032-2			32	24.8	8.0	198	9.6	238	10.8	268	12.0	298	16.2
F-13038-2			38	21.4	9.5	203	11.4	244	12.8	274	14.3	306	18.7
F-13044-2			44	18.5	11.0	204	13.2	244	14.9	275	16.5	305	21.3
F-13051-2			51	15.5	12.8	198	15.3	237	17.2	267	19.1	296	25.6
F-13064-2			64	12.1	16.0	194	19.2	232	21.6	261	24.0	290	32.4
F-13076-2			76	10.2	19.0	194	22.8	233	25.7	262	28.5	291	39.0
F-13089-2			89	8.4	22.3	187	26.7	224	30.0	252	33.4	281	45.9
F-13102-2	102	6.3	25.5	161	30.6	193	34.4	217	38.3	241	52.3		
F-13305-2	2.5 x 1.5	305	2.1	76.3	160	91.5	192	103	216	114	240	153	
F-16025-2	16	8	25	49.4	6.3	311	7.5	371	8.4	417	9.4	464	10.5
F-16032-2			32	37.1	8.0	297	9.6	356	10.8	401	12.0	445	13.2
F-16038-2			38	33.9	9.5	322	11.4	386	12.8	435	14.3	485	17.2
F-16044-2			44	30.0	11.0	330	13.2	396	14.9	446	16.5	495	19.4
F-16051-2			51	26.4	12.8	338	15.3	404	17.2	454	19.1	504	24.2
F-16064-2			64	20.5	16.0	328	19.2	394	21.6	443	24.0	492	29.2
F-16076-2			76	17.8	19.0	338	22.8	406	25.7	457	28.5	507	36.3
F-16089-2			89	15.2	22.3	339	26.7	406	30.0	457	33.4	508	41.7
F-16102-2	102	13.5	25.5	344	30.6	413	34.4	465	38.3	517	48.9		
F-16115-2	115	11.8	28.8	340	34.5	407	38.8	458	43.1	509	53.1		
F-16305-2	3.2 x 2.0	305	4.8	76.3	366	91.5	439	103	494	114	549	142	

Code	D _H	D _d	L ₀	R	A  25% L ₀		B  30% L ₀		C  33.75% L ₀		D  37.5% L ₀		E  max. 		
					b x h mm mm		± 10% N/mm	+ 3.000.000 mm N	~ 1.500.000 mm N	300 - 500.000 mm N	100 - 200.000 mm N	nicht verwenden mm			
F-20025-2	20	10	25	98.0	6.3	617	7.5	735	8.4	827	9.4	921	10.5		
F-20032-2			32	72.6	8.0	581	9.6	697	10.8	784	12.0	871	13.9		
F-20038-2			38	56.0	9.5	532	11.4	638	12.8	718	14.3	801	16.6		
F-20044-2			44	47.5	11.0	523	13.2	627	14.9	705	16.5	784	18.8		
F-20051-2			51	41.7	12.8	534	15.3	638	17.2	718	19.1	796	23.1		
F-20064-2			64	32.3	16.0	517	19.2	620	21.6	698	24.0	775	27.5		
F-20076-2			76	25.1	19.0	477	22.8	572	25.7	644	28.5	715	33.8		
F-20089-2			89	22.0	22.3	491	26.7	587	30.0	661	33.4	735	39.7		
F-20102-2			102	19.8	25.5	505	30.6	606	34.4	682	38.3	758	47.3		
F-20115-2			115	18.1	28.8	521	34.5	624	38.8	703	43.1	780	52.5		
F-20127-2			127	16.6	31.8	528	38.1	632	42.9	712	47.6	790	56.9		
F-20139-2			139	15.1	35.0	529	42.0	634	46.9	708	52.5	793	62.1		
F-20152-2			152	13.2	38.0	500	45.6	600	51.3	677	57.0	750	67.6		
F-20305-2			4.1 x 2.4	12.5	305	6.1	76.3	465	91.5	558	103	628	114	698	143
F-25025-2	25	147			6.3	926	7.5	1103	8.4	1240	9.4	1382	10.2		
F-25032-2	32	118			8.0	944	9.6	1133	10.8	1274	12.0	1416	13.7		
F-25038-2	38	93.0			9.5	884	11.4	1060	12.8	1193	14.3	1330	15.7		
F-25044-2	44	80.8			11.0	889	13.2	1067	14.9	1200	16.5	1333	18.2		
F-25051-2	51	68.6			12.8	878	15.3	1050	17.2	1181	19.1	1310	21.7		
F-25064-2	64	53.0			16.0	848	19.2	1018	21.6	1145	24.0	1272	26.0		
F-25076-2	76	43.2			19.0	821	22.8	985	25.7	1108	28.5	1231	32.3		
F-25089-2	89	38.2			22.3	852	26.7	1020	30.0	1147	33.4	1276	38.0		
F-25102-2	102	33.0			25.5	842	30.6	1010	34.4	1136	38.3	1264	43.0		
F-25115-2	115	28.0			28.8	806	34.5	966	38.8	1087	43.1	1207	48.6		
F-25127-2	127	25.9			31.8	824	38.1	987	42.9	1110	47.6	1233	53.7		
F-25139-2	139	23.2			35.0	812	42.0	974	46.9	1088	52.5	1218	59.4		
F-25152-2	152	20.8			38.0	790	45.6	948	51.3	1067	57.0	1186	63.8		
F-25178-2	178	17.8	44.5	792	53.4	951	60.1	1069	66.8	1189	76.6				
F-25203-2	5.4 x 3.3	16	203	15.8	50.8	803	60.9	962	68.5	1082	76.1	1202	88.4		
F-25305-2			305	10.2	76.3	778	91.5	933	103	1050	114	1167	135		
F-32038-2			32	16	38	185	9.5	1758	11.4	2109	12.8	2373	14.3	2646	16.3
F-32044-2					44	158	11.0	1738	13.2	2086	14.9	2346	16.5	2607	18.9
F-32051-2					51	134	12.8	1715	15.3	2050	17.2	2306	19.1	2559	23.1
F-32064-2					64	99.0	16.0	1584	19.2	1901	21.6	2138	24.0	2376	28.5
F-32076-2					76	108	19.0	1530	22.8	1835	25.7	2065	28.5	2294	34.2
F-32089-2					89	69.1	22.3	1541	26.7	1845	30.0	2076	33.4	2308	40.4
F-32102-2					102	58.8	25.5	1499	30.6	1799	34.4	2024	38.3	2252	48.0
F-32115-2					115	51.5	28.8	1483	34.5	1777	38.8	1999	43.1	2220	54.3
F-32127-2					127	44.8	31.8	1425	38.1	1707	42.9	1920	47.6	2132	59.2
F-32139-2					139	42.3	35.0	1481	42.0	1777	46.9	1984	52.5	2221	65.3
F-32152-2					152	37.8	38.0	1436	45.6	1724	51.3	1939	57.0	2155	73.0
F-32178-2					178	32.5	44.5	1446	53.4	1736	60.1	1952	66.8	2171	84.5
F-32203-2	203	28.9			50.8	1468	60.9	1760	68.5	1980	76.1	2199	96.9		
F-32254-2	254	21.4			63.5	1359	76.2	1631	85.7	1835	95.3	2039	121		
F-32305-2	305	18.3	76.3	1396	91.5	1674	103	1884	114	2094	147				
F-40051-2	40	20	51	182	12.8	2330	15.3	2785	17.2	3130	19.1	3476	21.4		
F-40064-2			64	140	16.0	2240	19.2	2688	21.6	3024	24.0	3360	26.8		
F-40076-2			76	108	19.0	2052	22.8	2462	25.7	2770	28.5	3078	32.7		
F-40089-2			89	90.7	22.3	2023	26.7	2422	30.0	2724	33.4	3029	39.0		
F-40102-2			102	81.0	25.5	2066	30.6	2479	34.4	2788	38.3	3102	44.1		
F-40115-2			115	71.8	28.8	2068	34.5	2477	38.8	2787	43.1	3095	50.6		
F-40127-2			127	62.7	31.8	1994	38.1	2389	42.9	2687	47.6	2985	55.9		
F-40139-2			139	57.5	35.0	2013	42.0	2415	46.9	2697	52.5	3019	61.8		
F-40152-2			152	51.6	38.0	1961	45.6	2353	51.3	2647	57.0	2941	67.5		
F-40178-2			178	44.1	44.5	1962	53.4	2355	60.1	2649	66.8	2946	77.2		
F-40203-2			203	36.7	50.8	1864	60.9	2235	68.5	2514	76.1	2793	91.8		
F-40254-2			254	30.1	63.5	1911	76.2	2294	85.7	2580	95.3	2869	113		
F-40305-2			305	24.6	76.3	1877	91.5	2251	103	2532	114	2814	138		

Code	D _H	D _d	L ₀	R	A		B		C		D		E	
					 25% L ₀	N	 30% L ₀	N	 33.75% L ₀	N	 37.5% L ₀	N	  nicht verwenden	
b x h				± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000						
mm	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	
F-50064-2	50	25	64	209	16.0	3344	19.2	4013	21.6	4514	24.0	5016	28.2	
F-50076-2			76	168	19.0	3192	22.8	3830	25.7	4309	28.5	4788	34.9	
F-50089-2			89	140	22.3	3122	26.7	3738	30.0	4205	33.4	4676	39.2	
F-50102-2			102	119	25.5	3035	30.6	3641	34.4	4097	38.3	4558	47.3	
F-50115-2			115	106	28.8	3053	34.5	3657	38.8	4114	43.1	4569	52.6	
F-50127-2			127	97.0	31.8	3085	38.1	3696	42.9	4158	47.6	4617	59.8	
F-50139-2			139	87.0	35.0	3045	42.0	3654	46.9	4081	52.5	4568	65.1	
F-50152-2			152	80.0	38.0	3040	45.6	3648	51.3	4104	57.0	4560	70.8	
F-50178-2			178	69.5	44.5	3093	53.4	3711	60.1	4175	66.8	4643	84.2	
F-50203-2			203	59.8	50.8	3038	60.9	3642	68.5	4097	76.1	4551	96.5	
F-50229-2			229	50.9	57.3	2917	68.7	3497	77.3	3934	85.9	4372	108	
F-50254-2			254	43.9	63.5	2788	76.2	3345	85.7	3763	95.3	4184	122	
F-50305-2			11.1 x 5.8	305	38.6	76.3	2945	91.5	3532	103	3973	114	4416	147
F-63076-2			63	38	76	312	19.0	5928	22.8	7114	25.7	8003	28.5	8892
F-63089-2	89	260			22.3	5798	26.7	6942	30.0	7810	33.4	8684	36.5	
F-63102-2	102	221			25.5	5636	30.6	6763	34.4	7608	38.3	8464	43.6	
F-63115-2	115	187			28.8	5386	34.5	6452	38.8	7258	43.1	8060	48.9	
F-63127-2	127	168			31.8	5342	38.1	6401	42.9	7201	47.6	7997	54.2	
F-63152-2	152	136			38.0	5168	45.6	6202	51.3	6977	57.0	7752	65.7	
F-63178-2	178	114			44.5	5073	53.4	6088	60.1	6849	66.8	7615	76.5	
F-63203-2	203	100			50.8	5080	60.9	6090	68.5	6851	76.1	7610	88.0	
F-63229-2	229	89.2			57.3	5111	68.7	6128	77.3	6894	85.9	7662	104	
F-63254-2	254	78.4			63.5	4978	76.2	5974	85.7	6721	95.3	7472	112	
F-63305-2	11.5 x 9.1	305			64.7	76.3	4937	91.5	5920	103	6660	114	7402	134

Artikelnummer	Beschreibung
F3	Feder für starke Belastung






Informationen
Baugleich Fibro 241.16. Farbe Rot






Bilder

Abmessungen
Siehe nächste Seite

Bestellbeispiel
F-20102-3 = F- Durchmesser DH 20mm, Länge Lo 102mm, Rot

Code	D _H	D _d	L ₀	R	A	B	C	D	E				
	b x h			± 10%	20% L ₀	25% L ₀	27.5% L ₀	30% L ₀	max.				
	mm	mm	mm	N/mm	mm	mm	mm	mm	mm				
					N	N	N	N	nicht verwenden				
					+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000					
F-10025-3			25	22.1	5.0	111	6.3	139	6.9	152	7.5	166	9.2
F-10032-3			32	17.5	6.4	112	8.0	140	8.8	154	9.6	168	12.1
F-10038-3			38	17.1	7.6	130	9.5	162	10.5	179	11.4	195	13.2
F-10044-3	10	5	44	15.0	8.8	132	11.0	165	12.1	182	13.2	198	15.1
F-10051-3			51	12.8	10.2	131	12.8	164	14.0	180	15.3	196	19.5
F-10064-3			64	10.7	12.8	137	16.0	171	17.6	188	19.2	205	21.8
F-10076-3			76	7.5	15.2	114	19.0	143	20.9	157	22.8	171	27.9
F-10305-3	1.9 x 1.5		305	2.1	61.0	128	76.3	160	83.9	176	91.5	192	127
F-13025-3			25	42.1	5.0	211	6.3	265	6.9	289	7.5	316	9.8
F-13032-3			32	33.2	6.4	212	8.0	266	8.8	292	9.6	319	13.6
F-13038-3			38	29.3	7.6	223	9.5	278	10.5	306	11.4	334	14.6
F-13044-3			44	24.6	8.8	216	11.0	271	12.1	298	13.2	325	18.1
F-13051-3	12.5	6.3	51	19.6	10.2	200	12.8	251	14.0	275	15.3	300	22.3
F-13064-3			64	15.0	12.8	192	16.0	240	17.6	264	19.2	288	27.3
F-13076-3			76	13.2	15.2	201	19.0	251	20.9	276	22.8	301	33.1
F-13089-3			89	11.4	17.8	203	22.3	254	24.5	279	26.7	304	38.9
F-13102-3			102	8.4	20.4	171	25.5	214	28.1	236	30.6	257	43.8
F-13305-3	2.4 x 1.9		305	2.8	61.0	171	76.3	214	83.9	235	91.5	256	140

Code	D _H	D _d	L ₀	R	A		B		C		D		E
					 20% L ₀	N	 25% L ₀	N	 27.5% L ₀	N	 30% L ₀	N	 max.
b x h			± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	nicht verwenden					
mm mm		mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	
F-16025-3	16	8	25	75.7	5.0	379	6.3	477	6.9	520	7.5	568	8.4
F-16032-3			32	52.8	6.4	338	8.0	422	8.8	465	9.6	507	10.5
F-16038-3			38	48.5	7.6	369	9.5	461	10.5	507	11.4	553	13.6
F-16044-3			44	42.8	8.8	377	11.0	471	12.1	518	13.2	565	15.9
F-16051-3			51	37.1	10.2	378	12.8	475	14.0	520	15.3	568	18.9
F-16064-3			64	30.3	12.8	388	16.0	485	17.6	533	19.2	582	24.9
F-16076-3			76	25.7	15.2	391	19.0	488	20.9	537	22.8	586	29.2
F-16089-3			89	21.7	17.8	386	22.3	484	24.5	531	26.7	579	34.5
F-16102-3			102	19.3	20.4	394	25.5	492	28.1	541	30.6	591	39.1
F-16115-3			115	15.7	23.0	361	28.8	452	31.6	497	34.5	542	44.0
F-16305-3			3.1 x 2.5	305	7.1	61.0	433	76.3	542	83.9	596	91.5	650
F-20025-3	20	10	25	216	5.0	1080	6.3	1361	6.9	1485	7.5	1620	8.3
F-20032-3			32	168	6.4	1075	8.0	1344	8.8	1478	9.6	1613	10.9
F-20038-3			38	129	7.6	980	9.5	1226	10.5	1348	11.4	1471	12.5
F-20044-3			44	112	8.8	986	11.0	1232	12.1	1355	13.2	1478	15.0
F-20051-3			51	94.0	10.2	959	12.8	1203	14.0	1318	15.3	1438	17.6
F-20064-3			64	72.1	12.8	923	16.0	1154	17.6	1269	19.2	1384	22.6
F-20076-3			76	59.7	15.2	907	19.0	1134	20.9	1248	22.8	1361	27.5
F-20089-3			89	50.5	17.8	899	22.3	1126	24.5	1236	26.7	1348	31.7
F-20102-3			102	44.2	20.4	902	25.5	1127	28.1	1240	30.6	1353	37.5
F-20115-3			115	38.4	23.0	883	28.8	1106	31.6	1214	34.5	1325	42.6
F-20127-3			127	34.1	25.4	866	31.8	1084	34.9	1191	38.1	1299	45.5
F-20139-3			139	31.0	28.0	868	35.0	1085	38.2	1185	42.0	1302	50.1
F-20152-3			152	28.2	30.4	857	38.0	1072	41.8	1179	45.6	1286	55.8
F-20305-3			4.0 x 3.3	305	15.0	61.0	915	76.3	1145	83.9	1258	91.5	1373
F-25025-3	25	12.5	25	375	5.0	1875	6.3	2363	6.9	2578	7.5	2813	8.5
F-25032-3			32	297	6.4	1901	8.0	2376	8.8	2614	9.6	2851	11.0
F-25038-3			38	219	7.6	1664	9.5	2081	10.5	2289	11.4	2497	12.6
F-25044-3			44	187	8.8	1646	11.0	2057	12.1	2263	13.2	2468	14.8
F-25051-3			51	156	10.2	1591	12.8	1997	14.0	2188	15.3	2387	17.9
F-25064-3			64	123	12.8	1574	16.0	1968	17.6	2165	19.2	2362	23.1
F-25076-3			76	99.0	15.2	1505	19.0	1881	20.9	2069	22.8	2257	26.3
F-25089-3			89	84.0	17.8	1495	22.3	1873	24.5	2056	26.7	2243	30.5
F-25102-3			102	73.0	20.4	1489	25.5	1862	28.1	2048	30.6	2234	37.3
F-25115-3			115	65.0	23.0	1495	28.8	1872	31.6	2056	34.5	2243	41.9
F-25127-3			127	57.7	25.4	1466	31.8	1835	34.9	2015	38.1	2198	46.2
F-25139-3			139	52.7	28.0	1476	35.0	1845	38.2	2014	42.0	2213	49.3
F-25152-3			152	47.8	30.4	1453	38.0	1816	41.8	1998	45.6	2180	55.7
F-25178-3			178	41.0	35.6	1460	44.5	1825	49.0	2007	53.4	2189	65.1
F-25203-3			203	35.8	40.6	1453	50.8	1819	55.8	1999	60.9	2180	74.5
F-25305-3			5.5 x 4.2	305	22.9	61.0	1397	76.3	1747	83.9	1921	91.5	2095

Code	D _H	D _d	L ₀	R	A		B		C		D		E		
					 20% L ₀	N	 25% L ₀	N	 27.5% L ₀	N	 30% L ₀	N	 max.		
b x h				± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	nicht verwenden						
mm mm		mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm			
F-32038-3	32	16	38	388	7.6	2949	9.5	3686	10.5	4055	11.4	4423	12.5		
F-32044-3			44	324	8.8	2851	11.0	3564	12.1	3920	13.2	4277	14.9		
F-32051-3			51	272	10.2	2774	12.8	3482	14.0	3815	15.3	4162	17.8		
F-32064-3			64	212	12.8	2714	16.0	3392	17.6	3731	19.2	4070	22.4		
F-32076-3			76	172	15.2	2614	19.0	3268	20.9	3595	22.8	3922	26.1		
F-32089-3			89	141	17.8	2510	22.3	3144	24.5	3451	26.7	3765	30.8		
F-32102-3			102	122	20.4	2489	25.5	3111	28.1	3422	30.6	3733	36.8		
F-32115-3			115	107	23.0	2461	28.8	3082	31.6	3384	34.5	3692	41.4		
F-32127-3			127	93.0	25.4	2362	31.8	2957	34.9	3248	38.1	3543	44.4		
F-32139-3			139	86.0	28.0	2408	35.0	3010	38.2	3287	42.0	3612	48.5		
F-32152-3			152	78.0	30.4	2371	38.0	2964	41.8	3260	45.6	3557	54.8		
F-32178-3			178	67.2	35.6	2392	44.5	2990	49.0	3289	53.4	3588	63.6		
F-32203-3			203	59.1	40.6	2399	50.8	3002	55.8	3299	60.9	3599	72.5		
F-32254-3			254	46.4	50.8	2357	63.5	2946	69.9	3241	76.2	3536	92.8		
F-32305-3			7.1 x 5.4	305	38.0	61.0	2318	76.3	2899	83.9	3187	91.5	3477	112	
F-40051-3	40	20	51	350	10.2	3570	12.8	4480	14.0	4909	15.3	5355	17.0		
F-40064-3			64	269	12.8	3443	16.0	4304	17.6	4734	19.2	5165	21.9		
F-40076-3			76	219	15.2	3329	19.0	4161	20.9	4577	22.8	4993	26.7		
F-40089-3			89	190	17.8	3382	22.3	4237	24.5	4650	26.7	5073	31.3		
F-40102-3			102	163	20.4	3325	25.5	4157	28.1	4572	30.6	4988	37.1		
F-40115-3			115	142	23.0	3266	28.8	4090	31.6	4491	34.5	4899	41.0		
F-40127-3			127	128	25.4	3251	31.8	4070	34.9	4470	38.1	4877	46.5		
F-40139-3			139	115	28.0	3220	35.0	4025	38.2	4396	42.0	4830	53.1		
F-40152-3			152	105	30.4	3192	38.0	3990	41.8	4389	45.6	4788	56.1		
F-40178-3			178	89	35.6	3168	44.5	3961	49.0	4357	53.4	4753	67.4		
F-40203-3			203	77	40.6	3126	50.8	3912	55.8	4299	60.9	4689	76.2		
F-40254-3			254	61	50.8	3099	63.5	3874	69.9	4261	76.2	4648	96.2		
F-40305-3			8.4 x 6.2	305	51	61.0	3111	76.3	3891	83.9	4278	91.5	4667	115	
F-50064-3			50	25	64	413	12.8	5286	16.0	6608	17.6	7269	19.2	7930	22.4
F-50076-3					76	339	15.2	5153	19.0	6441	20.9	7085	22.8	7729	26.5
F-50089-3	89	288			17.8	5126	22.3	6422	24.5	7049	26.7	7690	31.5		
F-50102-3	102	245			20.4	4998	25.5	6248	28.1	6872	30.6	7497	37.6		
F-50115-3	115	215			23.0	4945	28.8	6192	31.6	6799	34.5	7418	42.7		
F-50127-3	127	192			25.4	4877	31.8	6106	34.9	6706	38.1	7315	47.5		
F-50139-3	139	168			28.0	4704	35.0	5880	38.2	6422	42.0	7056	51.8		
F-50152-3	152	154			30.4	4682	38.0	5852	41.8	6437	45.6	7022	57.8		
F-50178-3	178	134			35.6	4770	44.5	5963	49.0	6559	53.4	7156	68.5		
F-50203-3	203	117			40.6	4750	50.8	5944	55.8	6532	60.9	7125	77.6		
F-50254-3	254	89			50.8	4521	63.5	5652	69.9	6217	76.2	6782	97.9		
F-50305-3	11.1 x 7.6	305			73	61.0	4453	76.3	5570	83.9	6123	91.5	6680	121	
F-63076-3	63	38			76	618	15.2	9394	19.0	11742	20.9	12916	22.8	14090	24.7
F-63089-3					89	515	17.8	9167	22.3	11485	24.5	12605	26.7	13751	30.0
F-63102-3					102	438	20.4	8935	25.5	11169	28.1	12286	30.6	13403	35.1
F-63115-3			115	370	23.0	8510	28.8	10656	31.6	11701	34.5	12765	37.5		
F-63127-3			127	333	25.4	8458	31.8	10589	34.9	11630	38.1	12687	45.9		
F-63152-3			152	269	30.4	8178	38.0	10222	41.8	11244	45.6	12266	56.5		
F-63178-3			178	226	35.6	8046	44.5	10057	49.0	11063	53.4	12068	66.8		
F-63203-3			203	198	40.6	8039	50.8	10058	55.8	11053	60.9	12058	78.8		
F-63254-3			254	155	50.8	7874	63.5	9843	69.9	10827	76.2	11811	102		
F-63305-3			11.6 x 12.3	305	128	61.0	7808	76.3	9766	83.9	10736	91.5	11712	122	

Lebensdauer: ca. 100.000 Zyklen







Artikelnummer	Beschreibung
F4	Feder für sehr starke Belastung






Informationen
Baugleich Fibro 241.17. Farbe Gelb

Bilder

Bestellbeispiel
F-20102-4 = F- Durchmesser DH 20mm, Länge Lo 102mm, Gelb

Code	D _H	D _d	L ₀	R	A		B		C		D		E
					17% L ₀	20% L ₀	22.5% L ₀	25% L ₀	nicht verwenden				
b x h		mm	± 10%	N/mm	+ 3.000.000		~ 1.500.000		300 - 500.000		100 - 200.000		max.
mm	mm				mm	N	mm	N	mm	N	mm	N	
F-10025-4	10	5	25	36.8	4.3	158	5.0	184	5.6	207	6.3	232	7.7
F-10032-4			32	27.9	5.4	151	6.4	179	7.2	201	8.0	223	10.6
F-10038-4			38	23.7	6.5	154	7.6	180	8.6	203	9.5	225	12.6
F-10044-4			44	19.2	7.5	144	8.8	169	9.9	190	11.0	211	13.8
F-10051-4			51	16.5	8.7	144	10.2	168	11.5	189	12.8	211	16.2
F-10064-4			64	13.2	10.9	144	12.8	169	14.4	190	16.0	211	20.4
F-10076-4			76	10.9	12.9	141	15.2	166	17.1	186	19.0	207	25.2
F-10305-4	1.9 x 1.6	305	2.6	51.9	135	61.0	159	68.6	178	76.3	198	111	
F-13025-4	12.5	6.3	25	58.5	4.3	252	5.0	293	5.6	329	6.3	369	8.1
F-13032-4			32	43.9	5.4	237	6.4	281	7.2	316	8.0	351	9.9
F-13038-4			38	36.0	6.5	234	7.6	274	8.6	308	9.5	342	12.9
F-13044-4			44	30.3	7.5	227	8.8	267	9.9	300	11.0	333	14.1
F-13051-4			51	26.2	8.7	228	10.2	267	11.5	301	12.8	335	17.4
F-13064-4			64	21.2	10.9	231	12.8	271	14.4	305	16.0	339	21.0
F-13076-4			76	17.1	12.9	221	15.2	260	17.1	292	19.0	325	26.4
F-13089-4	89	14.5	15.1	219	17.8	258	20.0	290	22.3	323	31.5		
F-13102-4	102	12.7	17.3	220	20.4	259	23.0	291	25.5	324	36.0		
F-13305-4	2.6 x 2.0	305	4.3	51.9	223	61.0	262	68.6	295	76.3	328	111	
F-16025-4	16	8	25	118	4.3	507	5.0	590	5.6	664	6.3	743	8.5
F-16032-4			32	89.0	5.4	481	6.4	570	7.2	641	8.0	712	11.0
F-16038-4			38	72.1	6.5	469	7.6	548	8.6	616	9.5	685	13.2
F-16044-4			44	60.9	7.5	457	8.8	536	9.9	603	11.0	670	14.7
F-16051-4			51	52.3	8.7	455	10.2	533	11.5	600	12.8	669	17.7
F-16064-4			64	41.2	10.9	449	12.8	527	14.4	593	16.0	659	21.9
F-16076-4			76	34.1	12.9	440	15.2	518	17.1	583	19.0	648	27.8
F-16089-4	89	29.5	15.1	445	17.8	525	20.0	591	22.3	658	31.2		
F-16102-4	102	25.6	17.3	443	20.4	522	23.0	588	25.5	653	37.9		
F-16115-4	115	22.4	19.6	439	23.0	515	25.9	580	28.8	645	44.5		
F-16305-4	3.2 x 2.9	305	8.4	51.9	436	61.0	512	68.6	576	76.3	641	113	

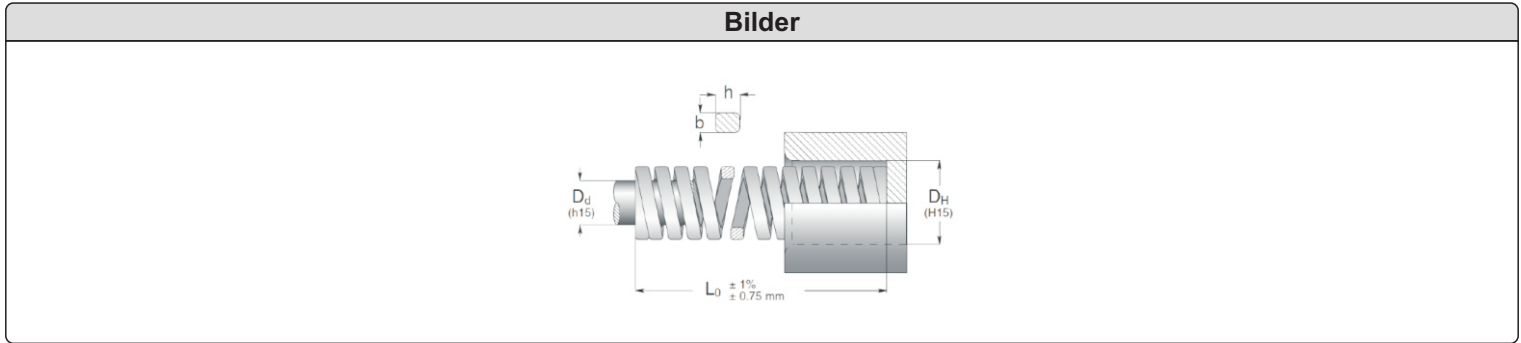
Code	D _H	D _d	L ₀	R		A		B		C		D		E
					17% L ₀	20% L ₀	22.5% L ₀	25% L ₀	 max.					
	b x h			± 10%	+ 3.000.000	N	~ 1.500.000	N	300 - 500.000	N	100 - 200.000	N	nicht verwenden	mm
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	mm
F-20025-4	20	10	25	293	4.3	1260	5.0	1465	5.6	1648	6.3	1846	6.9	
F-20032-4			32	224	5.4	1210	6.4	1434	7.2	1613	8.0	1792	9.4	
F-20038-4			38	177	6.5	1151	7.6	1345	8.6	1513	9.5	1682	12.0	
F-20044-4			44	149	7.5	1118	8.8	1311	9.9	1475	11.0	1639	13.5	
F-20051-4			51	128	8.7	1114	10.2	1306	11.5	1469	12.8	1638	16.2	
F-20064-4			64	99.0	10.9	1079	12.8	1267	14.4	1426	16.0	1584	21.2	
F-20076-4			76	81.7	12.9	1054	15.2	1242	17.1	1397	19.0	1552	24.7	
F-20089-4			89	69.5	15.1	1049	17.8	1237	20.0	1392	22.3	1550	28.8	
F-20102-4			102	60.6	17.3	1048	20.4	1236	23.0	1391	25.5	1545	34.8	
F-20115-4			115	53.0	19.6	1039	23.0	1219	25.9	1371	28.8	1526	39.0	
F-20127-4			127	47.5	21.6	1026	25.4	1207	28.6	1357	31.8	1511	43.0	
F-20139-4			139	43.0	23.8	1023	28.0	1204	31.3	1345	35.0	1505	45.3	
F-20152-4			152	39.0	25.8	1006	30.4	1186	34.2	1334	38.0	1482	50.4	
F-20305-4			4.1 x 3.8	305	21.2	51.9	1100	61.0	1293	68.6	1455	76.3	1618	103
F-25025-4	25	12.5	25	459	4.3	1974	5.0	2295	5.6	2582	6.3	2892	7.3	
F-25032-4			32	374	5.4	2020	6.4	2394	7.2	2693	8.0	2992	10.7	
F-25038-4			38	300	6.5	1950	7.6	2280	8.6	2580	9.5	2850	12.0	
F-25044-4			44	244	7.5	1830	8.8	2147	9.9	2416	11.0	2684	14.4	
F-25051-4			51	208	8.7	1810	10.2	2122	11.5	2392	12.8	2662	17.4	
F-25064-4			64	161	10.9	1755	12.8	2061	14.4	2318	16.0	2576	21.4	
F-25076-4			76	131	12.9	1690	15.2	1991	17.1	2240	19.0	2489	26.9	
F-25089-4			89	111	15.1	1676	17.8	1976	20.0	2220	22.3	2475	30.9	
F-25102-4			102	96.3	17.3	1666	20.4	1965	23.0	2210	25.5	2456	36.7	
F-25115-4			115	85.7	19.6	1680	23.0	1971	25.9	2217	28.8	2468	40.3	
F-25127-4			127	76.3	21.6	1648	25.4	1938	28.6	2180	31.8	2426	45.1	
F-25139-4			139	66.0	23.8	1571	28.0	1848	31.3	2066	35.0	2310	47.6	
F-25152-4			152	63.5	25.8	1638	30.4	1930	34.2	2172	38.0	2413	53.5	
F-25178-4			178	53.9	30.3	1633	35.6	1919	40.1	2159	44.5	2399	63.9	
F-25203-4	203	47.0	34.5	1622	40.6	1908	45.7	2147	50.8	2388	70.2			
F-25305-4	5.4 x 4.6	305	30.9	51.9	1604	61.0	1885	68.6	2121	76.3	2358	110		
F-32038-4	32	16	38	480	6.5	3120	7.6	3648	8.6	4128	9.5	4560	11.4	
F-32044-4			44	390	7.5	2925	8.8	3432	9.9	3861	11.0	4290	13.7	
F-32051-4			51	320	8.7	2784	10.2	3264	11.5	3680	12.8	4096	15.6	
F-32064-4			64	269	10.9	2934	12.8	3446	14.4	3876	16.0	4307	20.0	
F-32076-4			76	219	12.9	2825	15.2	3329	17.1	3745	19.0	4161	24.4	
F-32089-4			89	180	15.1	2723	17.8	3209	20.0	3611	22.3	4021	29.7	
F-32102-4			102	155	17.3	2682	20.4	3162	23.0	3557	25.5	3953	35.1	
F-32115-4			115	140	19.6	2744	23.0	3220	25.9	3623	28.8	4032	39.0	
F-32127-4			127	124	21.6	2678	25.4	3150	28.6	3543	31.8	3943	42.8	
F-32139-4			139	112	23.8	2673	28.0	3144	31.3	3512	35.0	3931	48.6	
F-32152-4			152	102	25.8	2632	30.4	3101	34.2	3488	38.0	3876	52.4	
F-32178-4			178	88.2	30.3	2672	35.6	3140	40.1	3532	44.5	3925	60.9	
F-32203-4			203	76.0	34.5	2622	40.6	3086	45.7	3471	50.8	3861	69.2	
F-32254-4			254	60.8	43.2	2627	50.8	3089	57.2	3475	63.5	3861	88.1	
F-32305-4	7.3 x 5.9	305	49.0	51.9	2543	61.0	2989	68.6	3363	76.3	3739	104		

Code	D _H	D _d	L ₀	R	A		B		C		D		E	
					 17% L ₀	N	 20% L ₀	N	 22.5% L ₀	N	 25% L ₀	N	 max.	
b x h		± 10%		+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	nicht verwenden						
mm		mm		N/mm	mm	N	mm	N	mm	N	mm	N	mm	
F-40051-4	40	20	51	628	8.7	5464	10.2	6406	11.5	7206	12.8	8038	15.0	
F-40064-4			64	487	10.9	5308	12.8	6234	14.4	7013	16.0	7792	19.5	
F-40076-4			76	379	12.9	4889	15.2	5761	17.1	6481	19.0	7201	23.3	
F-40089-4			89	321	15.1	4847	17.8	5714	20.0	6428	22.3	7158	26.7	
F-40102-4			102	281	17.3	4861	20.4	5732	23.0	6449	25.5	7166	33.8	
F-40115-4			115	245	19.6	4802	23.0	5635	25.9	6339	28.8	7056	36.2	
F-40127-4			127	221	21.6	4774	25.4	5613	28.6	6315	31.8	7028	40.7	
F-40139-4			139	190	23.8	4522	28.0	5320	31.3	5942	35.0	6650	44.5	
F-40152-4			152	168	25.8	4334	30.4	5107	34.2	5746	38.0	6384	49.6	
F-40178-4			178	146	30.3	4424	35.6	5198	40.1	5847	44.5	6497	59.9	
F-40203-4			203	132	34.5	4554	40.6	5359	45.7	6029	50.8	6706	67.1	
F-40254-4			254	107	43.2	4622	50.8	5436	57.2	6115	63.5	6795	86.3	
F-40305-4	8.4 x 7.5	305	87.8	51.9	4557	61.0	5356	68.6	6025	76.3	6699	104		
F-50064-4	50	25	64	709	10.9	7728	12.8	9075	14.4	10210	16.0	11344	19.3	
F-50076-4			76	572	12.9	7379	15.2	8694	17.1	9781	19.0	10868	24.2	
F-50089-4			89	475	15.1	7173	17.8	8455	20.0	9512	22.3	10593	28.0	
F-50102-4			102	405	17.3	7007	20.4	8262	23.0	9295	25.5	10328	33.5	
F-50115-4			115	352	19.6	6899	23.0	8096	25.9	9108	28.8	10138	38.6	
F-50127-4			127	316	21.6	6826	25.4	8026	28.6	9030	31.8	10049	41.4	
F-50139-4			139	289	23.8	6878	28.0	8092	31.3	9046	35.0	10115	47.3	
F-50152-4			152	239	25.8	6166	30.4	7266	34.2	8174	38.0	9082	50.2	
F-50178-4			178	215	30.3	6515	35.6	7654	40.1	8611	44.5	9568	61.1	
F-50203-4			203	187	34.5	6452	40.6	7592	45.7	8541	50.8	9500	67.7	
F-50254-4			254	153	43.2	6610	50.8	7772	57.2	8744	63.5	9716	87.0	
F-50305-4			11.5 x 9.0	305	127	51.9	6591	61.0	7747	68.6	8715	76.3	9690	104
F-63076-4	63	38	76	952	12.9	12280	15.2	14470	-	-	-	-	15.5	
F-63089-4			89	819	15.1	12360	17.8	14580	-	-	-	-	-	20.0
F-63102-4			102	700	17.3	12110	20.4	14280	23.0	16065	25.5	17850	30.7	
F-63115-4			115	620	19.6	12152	23.0	14260	25.9	16043	28.8	17860	34.9	
F-63127-4			127	565	21.6	12204	25.4	14351	28.6	16145	31.8	17967	38.0	
F-63152-4			152	458	25.8	11816	30.4	13923	34.2	15664	38.0	17404	47.2	
F-63178-4			178	384	30.3	11635	35.6	13670	40.1	15379	44.5	17088	55.8	
F-63203-4			203	337	34.5	11627	40.6	13682	45.7	15392	50.8	17120	64.8	
F-63254-4	254	263	43.2	11362	50.8	13360	57.2	15030	63.5	16701	86.7			
F-63305-4	11.6 x 14.9	305	218	51.9	11314	61.0	13298	68.6	14960	76.3	16633	106		

Lebensdauer: ca. 100.000 Zyklen

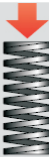





Artikelnummer	Beschreibung
F5	Feder für ultra starke Belastung

Informationen
Farbe Silber



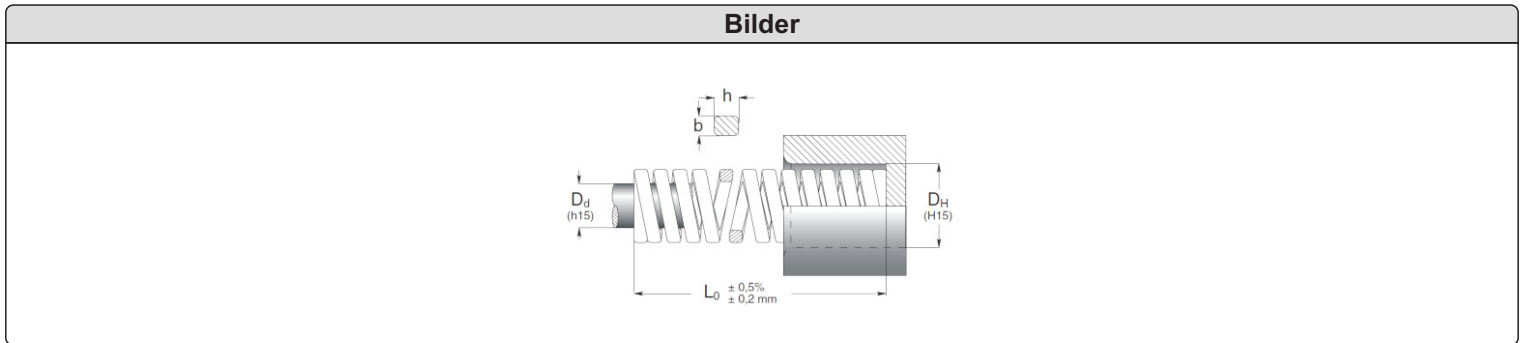
Bestellbeispiel
F-25115-5 = F- Durchmesser DH 25mm, Länge Lo 115mm, Silber

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A		B		C		D		E	
					10% L ₀	N	12% L ₀	N	13.5% L ₀	N	15% L ₀	N	nicht verwenden	
b x h				± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000						
mm		mm		N/mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
F-25064-5	25	12.5	64	644	6.4	4122	7.7	4959	8.6	5564	9.6	6182	13	
F-25076-5			76	556	7.6	4226	9.1	5060	10.3	5705	11.4	6338	16	
F-25089-5			89	462	8.9	4112	10.7	4943	12.0	5551	13.4	6168	20	
F-25102-5			102	390	10.2	3978	12.2	4758	13.8	5370	15.3	5967	23	
F-25115-5			115	360	11.5	4140	13.8	4968	15.5	5589	17.3	6210	26	
F-25127-5			127	326	12.7	4140	15.2	4955	17.1	5589	19.1	6210	28	
F-25152-5			152	255	15.2	3876	18.2	4641	20.5	5233	22.8	5814	34	
F-25178-5			178	230	17.8	4094	21.4	4922	24.0	5527	26.7	6141	39	
F-25203-5			203	202	20.3	4101	24.4	4929	27.4	5536	30.5	6151	45	
F-25305-5			5.6 x 7.5	305	136	30.5	4148	36.6	4978	41.2	5600	45.8	6222	63
F-32064-5	32	16	64	1077	6.4	6892	7.7	8270	8.6	9305	9.6	10337	13	
F-32076-5			76	874	7.6	6642	9.1	7971	10.3	8967	11.4	9964	16	
F-32089-5			89	721	8.9	6419	11	7702	12.0	8663	13.3	9628	20	
F-32102-5			102	620	10	6324	12	7589	13.8	8537	15.3	9486	23	
F-32115-5			115	560	12	6440	14	7728	15.5	8694	17.2	9660	26	
F-32127-5			127	496	13	6299	15	7559	17.1	8504	19.0	9449	28	
F-32152-5			152	408	15	6202	18	7442	20.5	8372	22.8	9302	34	
F-32178-5			178	353	18	6280	21	7536	24.0	8483	26.7	9420	39	
F-32203-5			203	304	20	6171	24	7405	27.4	8331	30.4	9257	45	
F-32254-5			254	243	25	6177	30	7413	34.3	8332	38.1	9266	62	
F-32305-5	7.5 x 9.2	305	196	31	5978	37	7174	41.2	8070	45.7	8967	75		
F-40089-5	40	20	89	880	8.9	7832	10.7	9416	12.0	10573	13.4	11748	20	
F-40102-5			102	762	10.2	7772	12.2	9296	13.8	10493	15.3	11659	23	
F-40115-5			115	679	11.5	7809	13.8	9370	15.5	10541	17.3	11713	26	
F-40127-5			127	622	12.7	7899	15.2	9454	17.1	10664	19.1	11849	28	
F-40152-5			152	509	22.8	7737	18.2	9264	20.5	10445	22.8	11605	36	
F-40178-5			178	429	17.8	7636	21.4	9181	24.0	10309	26.7	11454	43	
F-40203-5			203	374	20.3	7592	24.4	9126	27.4	10249	30.5	11388	49	
F-40254-5			254	296	25.4	7518	30.5	9028	34.3	10150	38.1	11278	62	
F-40305-5			8.5 x 11.0	305	246	30.5	7530	36.6	9004	41.2	10129	45.8	11255	75

Code	D_H	D_d	L_0	R		A		B		C		D		E
	Hole Diameter	Rod Diameter	Free Length	Spring Constant	$10\% L_0$	$12\% L_0$	$13.5\% L_0$	$15\% L_0$						
	b x h			$\pm 10\%$	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	nicht verwenden					
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	mm
F-50089-5	50	25	89	1410	8.9	12549	10.7	15087	12.0	16941	13.4	18824	19	
F-50102-5			102	1215	10.2	12393	12.2	14823	13.8	16731	15.3	18590	22	
F-50115-5			115	1076	11.5	12374	13.8	14849	15.5	16705	17.3	18561	25	
F-50127-5			127	968	12.7	12294	15.2	14714	17.1	16596	19.1	18440	28	
F-50152-5			152	806	15.2	12251	18.2	14669	20.5	16539	22.8	18377	34	
F-50178-5			178	698	17.8	12424	21.4	14937	24.0	16773	26.7	18637	40	
F-50203-5			203	612	20.3	12424	24.4	14933	27.4	16772	30.5	18635	45	
F-50254-5			254	472	25.4	11989	30.5	14396	34.3	16185	38.1	17983	58	
F-50305-5			11.8 x 13.5	305	388	30.5	11834	36.6	14201	41.2	15976	45.8	17751	70

Artikelnummer	Beschreibung
F6	Feder für ultra starke Belastung

Informationen
Farbe Weiß



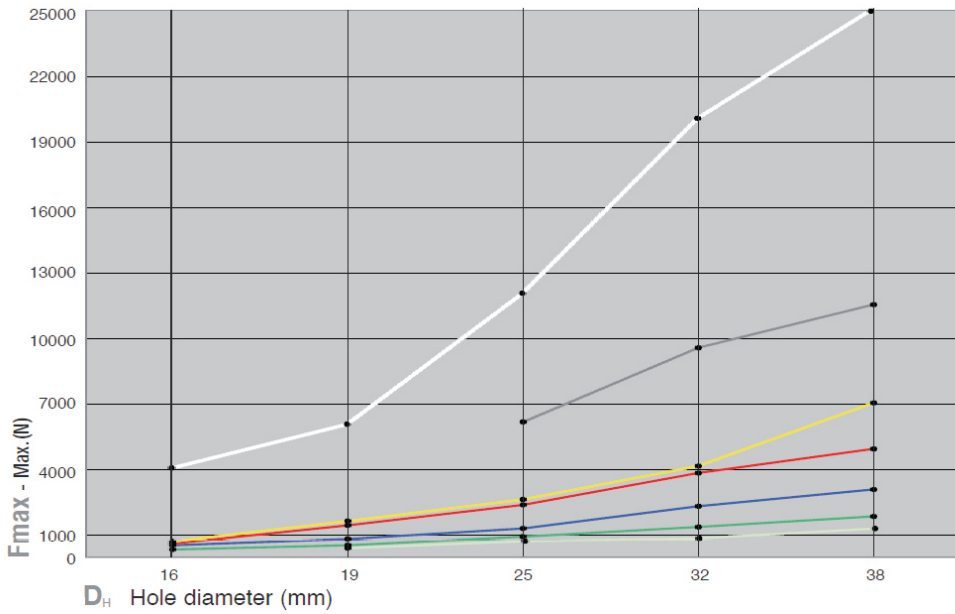
Bestellbeispiel
F-19050-6 = F- Durchmesser DH 19mm, Länge Lo 50mm, Silber

Code	D _H	D _d	L ₀	R	F _{max}	↓ max.
	Hole Diameter	Rod Diameter		Spring Constant		
b x h				± 10%		nicht verwenden
	mm	mm	mm	N/mm	mm	N
F-16020-6	16	6,3	20	1.818	2,2	4.000
F-16035-6			35	1.000	4,0	
F-16050-6			50	615	6,5	
F-16075-6			75	400	10,0	
F-16100-6			100	286	14,0	
4,6 x 5,0						
F-19025-6	19	8	25	2.400	2,5	6.000
F-19040-6			40	1.333	4,5	
F-19050-6			50	1.000	6,0	
F-19075-6			75	600	10,0	
F-19100-6			100	429	14,0	
5,1 x 6,5						
F-25030-6	25	10	30	4.800	2,5	12.000
F-25050-6			50	2.400	5,0	
F-25075-6			75	1.500	8,0	
F-25100-6			100	1.000	12,0	
F-25125-6			125	857	14,0	
6,9 x 9,1						
F-32035-6	32	12,5	35	6.667	3,0	20.000
F-32050-6			50	3.636	5,5	
F-32075-6			75	2.222	9,0	
F-32100-6			100	1.538	13,0	
F-32125-6			125	1.250	16,0	
F-32150-6	150	1.053	19,0			
9,25 x 10,8						
F-38040-6	38	16	40	7.143	3,5	25.000
F-38050-6			50	5.000	5,0	
F-38075-6			75	2.778	9,0	
F-38100-6			100	1.923	13,0	
F-38150-6			150	1.316	19,0	
F-38200-6	200	926	27,0			
10,5 x 12,6						

Einzigartige Eigenschaften auf dem Markt dank der hochentwickelten Produktionstechnik von Special Springs:

- **MAXIMALE DRUCKKRÄFTE BIS ZU 6 MAL HÖHER ALS DIE EXTRA SCHWER BELASTBARE FEDER (ISO Farbe Gelb)**
- **MAXIMALE DRUCKKRÄFTE BIS ZU 2 MAL HÖHER ALS DIE ULTRA SCHWER BELASTBARE FEDER (Special Springs Farbe Silber)**

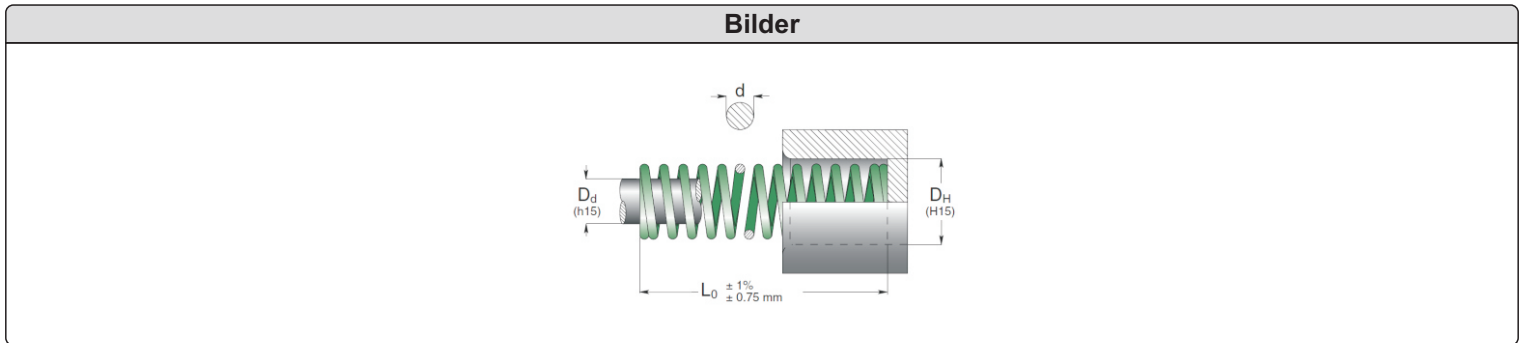
Ideal für Anwendungen, bei denen extrem hohe Druckkräfte bei kurzen Hüben und eine maximale wartungsfreie Lebensdauer unter schwierigen Bedingungen bei Vorhandensein von kontaminierenden Stoffen und hohen Temperaturen benötigt werden.



	SERIE	STANDARD	STÄRKE
	0	Special Springs	sehr leicht
	1	ISO	leicht
	2	ISO	mittel
	3	ISO	stark
	4	ISO	sehr stark
	5	Special Springs	ultra stark
	6	Special Springs	hyper stark

Artikelnummer	Beschreibung
FR1	Feder für leichte Belastung

Informationen
Runder Drahtquerschnitt

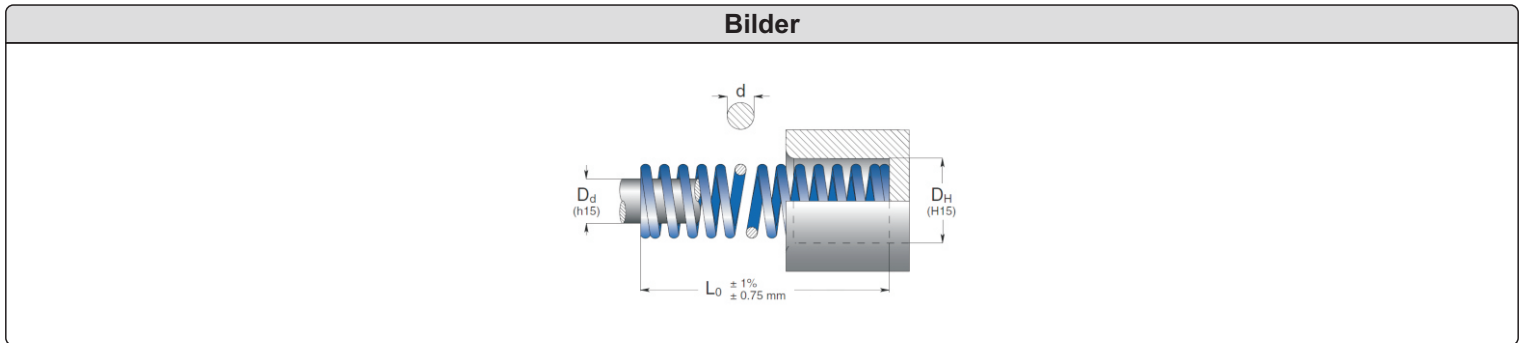


Bestellbeispiel
FR-20102-1 = FR, Durchmesser DH 20mm, Länge Lo 102mm, Grün

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A		B		C		D		E
					25% L ₀	30% L ₀	35% L ₀	40% L ₀	nicht verwenden				
	d			± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000				max.	
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
FR-10025-1	10	5	25	4.4	6.3	28	7.5	33	8.8	39	10.0	44	13.2
FR-10032-1			32	3.4	8.0	27	9.6	33	11.2	38	12.8	44	16.5
FR-10038-1			38	2.8	9.5	26	11.4	32	13.3	37	15.2	42	19.8
FR-10044-1			44	2.4	11.0	26	13.2	31	15.4	37	17.6	42	23.1
FR-10051-1			51	2.1	12.8	27	15.3	32	17.9	37	20.4	43	26.9
FR-10064-1			64	1.6	16.0	26	19.2	31	22.4	36	25.6	42	33.3
FR-10076-1			76	1.3	19.0	25	22.8	30	26.6	35	30.4	40	39.6
FR-10305-1			1.1	305	0.3	76.3	24	91.5	29	107	32	122	38
FR-13025-1	12.5	6.3	25	8.5	6.3	53	7.5	64	8.8	74	10.0	85	13.5
FR-13032-1			32	6.5	8.0	52	9.6	62	11.2	73	12.8	83	16.8
FR-13038-1			38	5.3	9.5	51	11.4	61	13.3	70	15.2	81	20.3
FR-13044-1			44	4.4	11.0	49	13.2	59	15.4	68	17.6	78	23.9
FR-13051-1			51	3.8	12.8	48	15.3	58	17.9	68	20.4	78	26.9
FR-13064-1			64	2.9	16.0	47	19.2	56	22.4	65	25.6	75	33.3
FR-13076-1			76	2.5	19.0	48	22.8	57	26.6	67	30.4	76	41.1
FR-13089-1			89	2.1	22.3	48	26.7	57	31.2	65	35.6	76	48.3
FR-13305-1	1.5	305	0.6	76.3	45	91.5	54	107	64	122	73	163	
FR-16025-1	16	8	25	17.9	6.3	112	7.5	134	8.8	157	10.0	179	14.7
FR-16032-1			32	13.5	8.0	108	9.6	129	11.2	151	12.8	173	18.5
FR-16038-1			38	10.5	9.5	100	11.4	120	13.3	140	15.2	160	22.4
FR-16044-1			44	8.8	11.0	96	13.2	116	15.4	136	17.6	154	25.9
FR-16051-1			51	7.6	12.8	97	15.3	116	17.9	136	20.4	155	30.0
FR-16064-1			64	5.9	16.0	95	19.2	114	22.4	132	25.6	152	37.8
FR-16076-1			76	4.8	19.0	91	22.8	109	26.6	128	30.4	145	45.2
FR-16089-1			89	4.0	22.3	90	26.7	108	31.2	125	35.6	144	52.8
FR-16102-1	2	102	3.5	25.5	90	30.6	108	35.7	125	40.8	144	60.7	
FR-16305-1		305	1.1	76.3	85	91.5	103	107	117	122	137	184	

Artikelnummer	Beschreibung
FR2	Feder für mittlere Belastung

Informationen
Runder Drahtquerschnitt

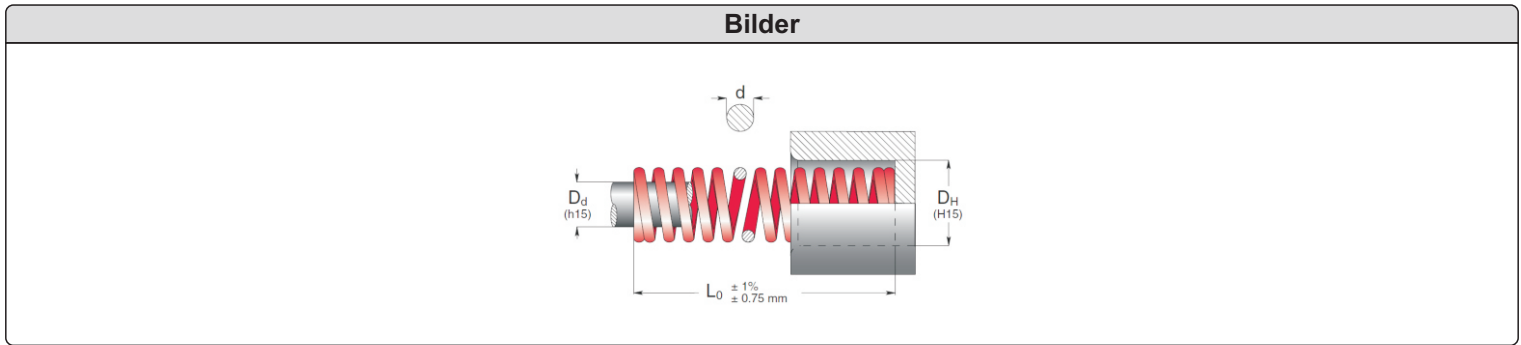


Bestellbeispiel
FR-20102-2 = F R, Durchmesser DH 20mm, Länge Lo 102mm, Blau

Code	D _H Hole Diameter	D _d Rod Diameter	L ₀ Free Length	R Spring Constant	A		B		C		D		E
					25% L ₀	30% L ₀	33.75% L ₀	37.5% L ₀	nicht verwenden				
	d			± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000					max.
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm
FR-10025-2	10	5	25	12.3	6.3	77	7.5	92	8.4	104	9.4	115	10.4
FR-10032-2			32	9.5	8.0	76	9.6	91	10.8	103	12.0	113	13.2
FR-10038-2			38	7.8	9.5	74	11.4	88	12.8	100	14.3	111	16.0
FR-10044-2			44	6.5	11.0	72	13.2	86	14.9	97	16.5	108	18.5
FR-10051-2			51	5.6	12.8	72	15.3	86	17.2	96	19.1	108	21.1
FR-10064-2			64	4.5	16.0	71	19.2	86	21.6	97	24.0	107	26.4
FR-10076-2			76	3.7	19.0	70	22.8	84	25.7	95	28.5	105	31.8
FR-10305-2			1.5	305	0.9	76.3	68	91.5	82	103	93	114	102
FR-13025-2	12.5	6.3	25	21.7	6.3	136	7.5	163	8.4	183	9.4	204	11.2
FR-13032-2			32	16.8	8.0	134	9.6	161	10.8	181	12.0	202	14.0
FR-13038-2			38	13.8	9.5	131	11.4	158	12.8	177	14.3	197	17.3
FR-13044-2			44	11.6	11.0	127	13.2	153	14.9	172	16.5	191	19.8
FR-13051-2			51	10.0	12.8	127	15.3	153	17.2	172	19.1	191	22.9
FR-13064-2			64	7.8	16.0	125	19.2	150	21.6	168	24.0	187	28.4
FR-13076-2			76	6.4	19.0	122	22.8	146	25.7	164	28.5	183	34.3
FR-13089-2			89	5.6	22.3	125	26.7	150	30.0	168	33.4	188	41.4
FR-13305-2	1.8	305	1.5	76.3	118	91.5	141	103	154	114	176	139	
FR-16025-2	16	8	25	31.9	6.3	199	7.5	239	8.4	269	9.4	299	10.9
FR-16032-2			32	24.0	8.0	192	9.6	230	10.8	259	12.0	288	13.7
FR-16038-2			38	19.4	9.5	185	11.4	222	12.8	249	14.3	277	16.5
FR-16044-2			44	16.1	11.0	177	13.2	213	14.9	239	16.5	266	19.3
FR-16051-2			51	13.8	12.8	176	15.3	212	17.2	238	19.1	265	22.1
FR-16064-2			64	10.7	16.0	171	19.2	205	21.6	231	24.0	256	27.4
FR-16076-2			76	8.8	19.0	166	22.8	200	25.7	226	28.5	250	33.0
FR-16089-2			89	7.5	22.3	167	26.7	200	30.0	225	33.4	250	38.6
FR-16102-2	102	6.5	25.5	167	30.6	200	34.4	224	38.3	250	44.5		
FR-16305-2	2.2	305	2.1	76.3	159	91.5	191	103	216	114	238	134	

Artikelnummer	Beschreibung
FR3	Feder für starke Belastung

Informationen
Farbe Rot

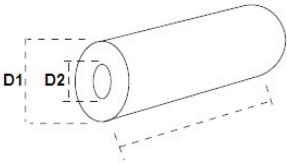


Bestellbeispiel
FR-20102-3 = FR- Durchmesser DH 20mm, Länge Lo 102mm, Rot

Code	D _H	D _d	L ₀	R	A	B	C	D	E				
	Hole Diameter	Rod Diameter								Free Length	Spring Constant	20% L ₀	25% L ₀
	d			± 10%	+ 3.000.000	~ 1.500.000	300 - 500.000	100 - 200.000	nicht verwenden				
	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm		
FR-10025-3	10	5	25	20.7	5.0	103	6.3	129	6.9	142	7.5	155	8.6
FR-10032-3			32	16.1	6.4	103	8.0	129	8.8	142	9.6	155	10.9
FR-10038-3			38	13.0	7.6	98	9.5	123	10.5	136	11.4	148	13.2
FR-10044-3			44	10.9	8.8	96	11.0	119	12.1	132	13.2	143	14.7
FR-10051-3			51	9.6	10.2	98	12.8	123	14.0	135	15.3	147	17.8
FR-10064-3			64	7.7	12.8	98	16.0	123	17.6	136	19.2	147	22.9
FR-10076-3			76	6.3	15.2	96	19.0	119	20.9	132	22.8	143	26.9
FR-10305-3			1.6	305	1.5	61.0	93	76.3	116	83.9	126	91.5	139
FR-13025-3	12.5	6.3	25	37.5	5.0	187	6.3	234	6.9	258	7.5	281	8.9
FR-13032-3			32	28.9	6.4	185	8.0	231	8.8	254	9.6	277	11.2
FR-13038-3			38	23.5	7.6	178	9.5	223	10.5	246	11.4	268	13.7
FR-13044-3			44	19.6	8.8	173	11.0	216	12.1	237	13.2	259	15.7
FR-13051-3			51	17.3	10.2	177	12.8	221	14.0	243	15.3	265	18.8
FR-13064-3			64	13.5	12.8	173	16.0	216	17.6	238	19.2	259	23.6
FR-13076-3			76	11.2	15.2	170	19.0	213	20.9	234	22.8	256	28.4
FR-13089-3			89	9.5	17.8	168	22.3	210	24.5	233	26.7	252	33.0
FR-13305-3	2.2	305	2.7	61.0	162	76.3	203	83.9	226	91.5	244	114	
FR-16025-3	16	8	25	81.6	5.0	408	6.3	510	6.9	561	7.5	612	9.1
FR-16032-3			32	61.3	6.4	392	8.0	490	8.8	539	9.6	588	11.4
FR-16038-3			38	49.9	7.6	379	9.5	474	10.5	521	11.4	569	14.2
FR-16044-3			44	40.8	8.8	359	11.0	449	12.1	494	13.2	539	16.3
FR-16051-3			51	35.6	10.2	363	12.8	453	14.0	499	15.3	544	18.8
FR-16064-3			64	27.8	12.8	356	16.0	446	17.6	489	19.2	535	23.9
FR-16076-3			76	22.8	15.2	346	19.0	433	20.9	477	22.8	519	29.0
FR-16089-3			89	19.6	17.8	349	22.3	436	24.5	480	26.7	524	34.3
FR-16102-3	102	17.0	20.4	347	25.5	433	28.1	477	30.6	520	39.4		
FR-16305-3	2.8	305	5.4	61.0	330	76.3	413	83.9	453	91.5	495	119	

Artikelnummer	Beschreibung
N300	Elastomer-Hohlrundstab

Informationen
<p>Maße und Härte identisch mit Fibro 254. Material: Ultraflex Härte: 80 Shore Gelb 90 Shore Rot 95 Shore Grün</p> <p>Wir können Ihnen den Hohlrundstab auch auf Wunschmaß kürzen!</p>

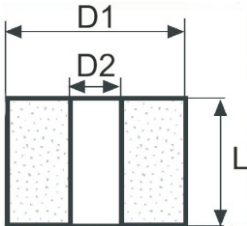
Bilder


Abmessungen			
Bezeichnung	D1	D2	L
N300.16	16	6,5	250
N300.20	20	8,5	250
N300.25	25	10,5	250
N300.32	32	13,5	500
N300.40	40	13,5	500
N300.50	50	17	500
N300.63	63	17	500
N300.80	80	21	500
N300.100	100	21	500
N300.125	125	27	500

Bestellbeispiel
N300.40.90 Shore = N300 Durchmesser D1 40mm, Länge 250mm, Härte 90 Shore

Artikelnummer	Beschreibung
N301	Elastomer Rundfeder

Informationen
Maße un Härte identisch Fibro 246.

Bilder


Abmessungen										
D1	16	20	25	32	40	50	63	80	100	125
D2	6,5	8,5	10,5	13,5	13,5	17	17	21	21	27
L										
16	•	•	•	•	•					
20	•	•	•	•	•					
25	•	•	•	•	•	•				
32	•	•	•	•	•	•	•	•	•	•
40		•	•	•	•	•	•	•	•	•
50			•	•	•	•	•	•	•	•
63				•	•	•	•	•	•	•
80					•	•	•	•	•	•
100						•	•	•	•	•
125							•	•	•	•
160							•	•	•	•

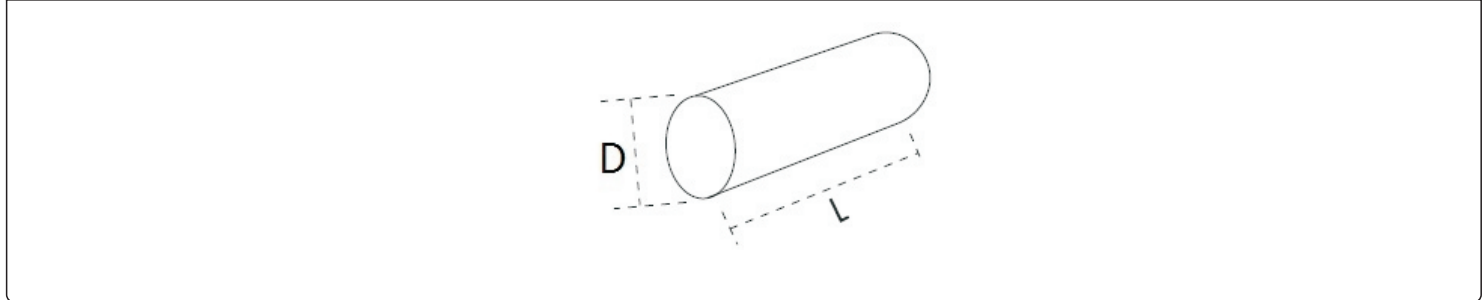
Bestellbeispiel
N301.40.50. 90 Shore = N301 Durchmesser D1 40mm, Länge L 50mm, Härte 90 Shore

Artikelnummer	Beschreibung
N302	Elastomer-Rundstab

Informationen

Vollmaterial
 Maße und Härte identisch mit Fibro 253

Bilder



Abmessungen

D1	L	D1	L	D1	L
8	250	32	500	90	500
10	250	35	500	100	500
12	250	40	500	110	500
13	250	45	500	120	500
15	250	50	500	125	500
16	250	55	500	130	500
20	250	60	500	140	500
25	250	63	500	150	500
28	500	70	500	160	500
30	500	80	500	200	500

Bestellbeispiel

N302 Durchmesser D1 40mm, Härte 90 Shore

Artikelnummer	Beschreibung
N310	Elastomerleiste

Informationen

Material: Adipol

Härte: 70 Shore Schwarz

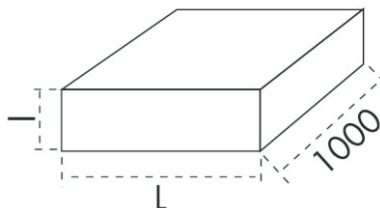
80 Shore Blau

90 Shore Orange

95 Shore Honig Typ A

98 Shore Honig Typ B

Bilder



Abmessungen

H	10	15	20	25	30	40	50	60	80	100
B										
10	•									
15		•								
20	•	•	•							
25			•	•						
30	•	•	•	•	•					
40	•		•			•				
50	•	•	•	•	•	•	•			
60								•		
80									•	
100	•	•	•	•	•	•	•			•

Bestellbeispiel

N310.25.25 98 Shore = N310 Höhe 25mm, Breite 25mm, Länge 1000mm, Härte 98 Shore

Artikelnummer	Beschreibung
N320	Konisches Druckstück

Informationen
Maße und Härte identisch mit Fibro 2471.6. Härte: 80 Shore Gelb 90 Shore Rot 95 Shore Grün

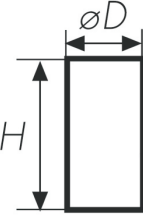
Bilder

Abmessungen						
D	6	10	16	24	40	
H	10	15	25	25	40	

Bestellbeispiel
N320.10.15 90 Shore = N320 Durchmesser 10mm, Höhe 15 mm, Härte 90 Shore

Artikelnummer	Beschreibung
N321	Zylindrisches Druckstück

Informationen
Härte: 80 Shore Gelb 90 Shore Rot 95 Shore Grün

Bilder
 <p>The drawing shows a vertical cylinder. A horizontal dimension line at the top indicates the diameter, labeled with the symbol $\varnothing D$. A vertical dimension line on the left indicates the height, labeled with the letter H.</p>

Abmessungen				
D	2	3	4,5	6
H	15	15	15	20

Bestellbeispiel
N321.3.15 90 Shore = N321 Durchmesser D 3mm, Höhe 15mm, Härte 90 Shore

N3 Federelemente



Artikelnummer	Beschreibung
N330	Dämpfungsscheibe

Informationen
Maße und Härte identisch mit Fibro 2450 Härte: 80 Shore Gelb 90 Shore Rot 95 Shore Grün

Bilder

Abmessungen												
D1	17	18	22	21	13,5	25	18	23,5	21	26	17	
D2	26	27	28	30	32	32	32	34	35	35	38	
H	4	4	6	5	4	6	7	4	7	6	5	
D1	21	13,5	32	27	31	37	32	17	26	37	32	
D2	38	40	40	41	42	46	49	50	50	53	60	
H	6	5	6	7	6	6	8	6	6	8	10	
D1	17	37	42	21	21	27						
D2	63	65	70	80	100	125						
H	6	10	10	10	10	10						

Bestellbeispiel
N330.17.26 90 Shore = N330 Durchmesser D1 17mm, D2 26 mm, Härte 90 Shore