

## FRS 01

### Description

Product group	Guide elements
Design	Rod guide ring
Profile no.	01
Model	30
Material	PTFE 00 9853

### Operational application limits

Max. surface pressure (N/mm<sup>2</sup>): ≤15  
 Temperature (°C): -60 to +200  
 Running speed (m/s): ≤15

### Media

Hydraulic oils acc. to DIN 51524  
 Part 1 - 3, lubricating oils, mineral oil based lubricating greases, highly non-flammable hydraulic fluids HFA, HFB, HFC acc. to VDMA 24317

### Function

FRS 01 guide rings made of PTFE compounds serve to guide rods, prevent metallic contact of the machine parts and absorb the transverse force that occurs. Guide elements made of PTFE compounds are characterised by outstanding friction behaviour which minimises the stick-slip effect. In addition, they exhibit high thermal and chemical resistance. PTFE guide rings are suitable for medium surface pressures.

### Installation

Guide rings made of PTFE compounds are supplied as stretched, pre-cut PTFE guide strips which can easily be installed in closed installation grooves. There are three different cutting types: 30°, 90°, ST.  
 30° = for better press force distribution and to facilitate installation  
 90° = simple cut  
 ST = for swivel movements  
 The edge chamfers also facilitate installation. With one-sided surface structured material, care must be taken to ensure that the profiled surface is always installed as the contact surface.

### Remarks

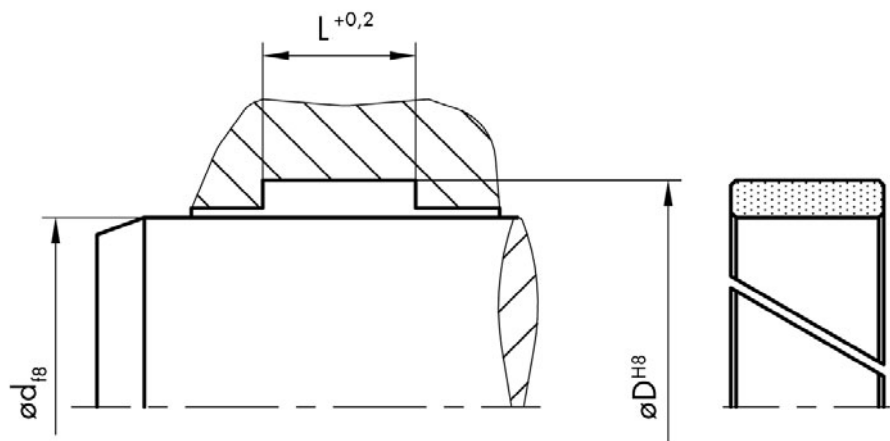
Standard PTFE guide rings are supplied with a 30° diagonal cut and in a PTFE bronze compound.

### Order code

Please include our item numbers in your order. Should you require non-standard dimensions, materials or material combinations, please use the order code on page 12.

### Any seal. Any time.

All the items in our standard programme (marked red) are standard stock items. For all other items, please check the availability at [www.dichtomatik.de](http://www.dichtomatik.de).

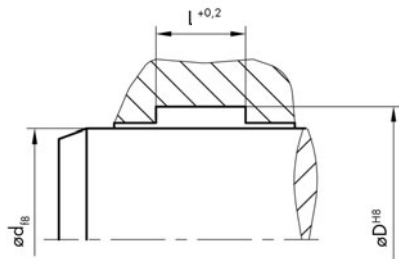


## FRS 01

## Sizes

Item No.	Code	d	D	L	Item No.	Code	d	D	L
171730	FRS 01	16	20	9.7	171785	FRS 01	45	50	20
171731	FRS 01	18	22	9.7	171786	FRS 01	45	51	9.7
171732	FRS 01	18	23	9.7	171787	FRS 01	50	55	5.6
171733	FRS 01	20	24	9.7	171788	FRS 01	50	55	9.7
171734	FRS 01	20	25	5.6	171789	FRS 01	50	55	15
171735	FRS 01	20	25	9.7	171790	FRS 01	50	55	20
171736	FRS 01	22	26	9.7	171791	FRS 01	50	55	25
171737	FRS 01	22	27	5.6	171792	FRS 01	50	56	9.7
171738	FRS 01	22	27	9.7	171793	FRS 01	52	57	9.7
171739	FRS 01	25	29	9.7	171794	FRS 01	52	58	9.7
171740	FRS 01	25	30	5.6	171795	FRS 01	52	58	12.8
171741	FRS 01	25	30	9.7	171796	FRS 01	55	60	5.6
171742	FRS 01	25	30	15	171797	FRS 01	55	60	9.7
171743	FRS 01	25	30	25	171798	FRS 01	55	60	15
171744	FRS 01	27	32	5.6	171799	FRS 01	55	60	20
171745	FRS 01	27	32	9.7	171800	FRS 01	55	60	25
171746	FRS 01	28	32	9.7	171801	FRS 01	55	61	9.7
171747	FRS 01	28	33	5.6	171802	FRS 01	56	61	5.6
171748	FRS 01	28	33	9.7	171803	FRS 01	56	61	9.7
171749	FRS 01	30	34	9.7	171804	FRS 01	56	61	15
171750	FRS 01	30	35	5.6	171805	FRS 01	56	61	20
171751	FRS 01	30	35	9.7	171806	FRS 01	56	61	25
171752	FRS 01	30	35	15	171807	FRS 01	56	62	12.8
171753	FRS 01	32	37	5.6	171808	FRS 01	58	63	5.6
171754	FRS 01	32	37	9.7	171809	FRS 01	58	63	9.7
171755	FRS 01	32	37	15	171810	FRS 01	60	65	5.6
171756	FRS 01	33	38	9.7	171811	FRS 01	60	65	9.7
171757	FRS 01	35	39	9.7	171812	FRS 01	60	65	15
171758	FRS 01	35	40	5.6	171813	FRS 01	60	65	20
171759	FRS 01	35	40	9.7	171814	FRS 01	60	65	25
171760	FRS 01	35	40	15	171815	FRS 01	60	66	12.8
171761	FRS 01	35	41	20	171816	FRS 01	61	67	12.8
171762	FRS 01	36	39	5.6	171817	FRS 01	62	68	12.8
171763	FRS 01	36	39	15	171818	FRS 01	63	68	5.6
171764	FRS 01	36	40	9.7	171819	FRS 01	63	68	9.7
171765	FRS 01	36	41	5.6	171820	FRS 01	63	68	15
171766	FRS 01	36	41	9.7	171821	FRS 01	63	68	20
171767	FRS 01	36	41	15	171822	FRS 01	63	69	12.8
171768	FRS 01	36	41	20	171823	FRS 01	65	70	9.7
171769	FRS 01	36	41	25	171824	FRS 01	65	70	15
171770	FRS 01	36	42	9.7	171825	FRS 01	65	70	20
171771	FRS 01	38	42	9.7	171826	FRS 01	65	70	25
171772	FRS 01	40	44	9.7	171827	FRS 01	65	71	12.8
171773	FRS 01	40	45	5.6	171828	FRS 01	66	72	12.8
171774	FRS 01	40	45	9.7	171829	FRS 01	70	75	5.6
171775	FRS 01	40	45	15	171830	FRS 01	70	75	9.7
171776	FRS 01	40	45	20	171831	FRS 01	70	75	15
171777	FRS 01	40	45	25	171832	FRS 01	70	75	20
171778	FRS 01	42	46	9.7	171833	FRS 01	70	75	25
171779	FRS 01	42	47	5.6	171834	FRS 01	70	75	30
171780	FRS 01	42	47	9.7	171835	FRS 01	70	76	12.8
171781	FRS 01	43	48	9.7	171836	FRS 01	75	79	9.7
171782	FRS 01	45	50	5.6	171837	FRS 01	75	80	5.6
171783	FRS 01	45	50	9.7	171838	FRS 01	75	80	9.7
171784	FRS 01	45	50	15	171839	FRS 01	75	80	15

Sizes



Item No.	Code	d	D	L	Item No.	Code	d	D	L
171840	FRS 01	75	80	20	171894	FRS 01	125	130	9.7
171841	FRS 01	75	80	25	171895	FRS 01	125	130	15
171842	FRS 01	75	81	12.8	171896	FRS 01	125	130	25
171843	FRS 01	75	83	9.7	171897	FRS 01	125	130	30
171844	FRS 01	80	85	5.6	171898	FRS 01	125	131	12.8
171845	FRS 01	80	85	9.7	171899	FRS 01	130	135	9.7
171846	FRS 01	80	85	15	171900	FRS 01	130	135	15
171847	FRS 01	80	85	20	171901	FRS 01	130	135	20
171848	FRS 01	80	85	25	171902	FRS 01	130	135	25
171849	FRS 01	80	85	30	171903	FRS 01	130	136	12.8
171850	FRS 01	85	90	5.6	171904	FRS 01	135	140	9.7
171851	FRS 01	85	90	9.7	171905	FRS 01	135	140	15
171852	FRS 01	85	90	15	171910	FRS 01	135	141	12.8
171853	FRS 01	85	90	20	171911	FRS 01	140	145	9.7
171854	FRS 01	85	90	25	171912	FRS 01	140	145	15
171855	FRS 01	90	95	5.6	171913	FRS 01	140	145	20
171856	FRS 01	90	95	9.7	171914	FRS 01	140	145	25
172082	FRS 01	90	95	12.8	171915	FRS 01	140	145	30
171857	FRS 01	90	95	15	171916	FRS 01	140	145	40
171858	FRS 01	90	95	20	171917	FRS 01	140	146	12.8
171859	FRS 01	90	95	25	171918	FRS 01	145	150	9.7
171860	FRS 01	90	96	12.8	171919	FRS 01	150	155	9.7
171861	FRS 01	95	100	5.6	171920	FRS 01	150	155	15
171862	FRS 01	95	100	9.7	171921	FRS 01	150	155	20
171863	FRS 01	95	101	12.8	171922	FRS 01	150	155	25
171864	FRS 01	100	105	5.6	171923	FRS 01	150	155	30
171865	FRS 01	100	105	9.7	171924	FRS 01	150	156	12.8
171866	FRS 01	100	105	15	171925	FRS 01	155	160	15
171867	FRS 01	100	105	20	171926	FRS 01	155	160	25
171868	FRS 01	100	105	25	171927	FRS 01	155	160	30
171869	FRS 01	100	106	12.8	171928	FRS 01	160	165	9.7
171870	FRS 01	105	110	5.6	171929	FRS 01	160	165	15
171871	FRS 01	105	110	9.7	171930	FRS 01	160	165	20
171872	FRS 01	105	110	15	171931	FRS 01	160	165	25
171873	FRS 01	105	110	20	171932	FRS 01	160	165	30
171874	FRS 01	105	110	25	171933	FRS 01	165	170	9.7
171875	FRS 01	110	115	5.6	171934	FRS 01	165	170	20
171876	FRS 01	110	115	9.7	171935	FRS 01	165	170	25
171877	FRS 01	110	115	12.8	171936	FRS 01	170	175	9.7
171878	FRS 01	110	115	15	171937	FRS 01	170	175	15
171879	FRS 01	110	115	20	171938	FRS 01	170	175	20
171880	FRS 01	110	115	25	171939	FRS 01	170	175	25
171881	FRS 01	115	120	9.7	171940	FRS 01	170	175	30
171882	FRS 01	115	120	15	171941	FRS 01	170	175	40
171883	FRS 01	115	120	20	171942	FRS 01	175	180	20
171884	FRS 01	115	120	30	171943	FRS 01	180	185	9.7
171885	FRS 01	115	120	35	171944	FRS 01	180	185	15
171886	FRS 01	115	121	12.8	171945	FRS 01	180	185	20
171887	FRS 01	120	125	5.6	171946	FRS 01	180	185	25
171888	FRS 01	120	125	9.7	171947	FRS 01	180	185	30
171889	FRS 01	120	125	15	171948	FRS 01	180	185	40
171890	FRS 01	120	125	25	171949	FRS 01	180	185	45
171891	FRS 01	120	125	30	171950	FRS 01	185	190	9.7
171892	FRS 01	120	125	35	171951	FRS 01	185	190	20
171893	FRS 01	120	126	12.8	171952	FRS 01	185	190	25

## FRS 01

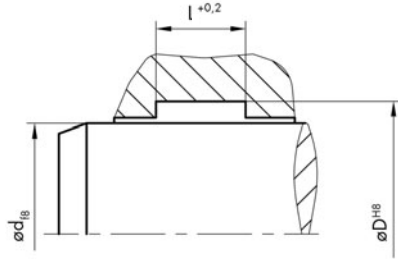
## Sizes

Item No.	Code	d	D	L	Item No.	Code	d	D	L
171953	FRS 01	190	195	15	172008	FRS 01	270	275	20
171954	FRS 01	190	195	20	172009	FRS 01	270	275	25
171955	FRS 01	190	195	25	172010	FRS 01	275	280	25
171956	FRS 01	195	200	30	172011	FRS 01	275	280	30
171957	FRS 01	200	205	9.7	172012	FRS 01	275	280	40
171958	FRS 01	200	205	15	172013	FRS 01	280	285	9.7
171959	FRS 01	200	205	20	172014	FRS 01	280	285	15
171960	FRS 01	200	205	25	172015	FRS 01	280	285	20
171961	FRS 01	200	205	30	172016	FRS 01	280	285	25
171962	FRS 01	200	205	40	172017	FRS 01	280	285	30
171963	FRS 01	205	210	9.7	172018	FRS 01	280	285	40
171964	FRS 01	210	215	15	172019	FRS 01	280	290	35
171965	FRS 01	210	215	20	172020	FRS 01	285	290	20
171966	FRS 01	210	215	25	172021	FRS 01	285	290	25
171967	FRS 01	210	215	30	172022	FRS 01	285	290	30
171968	FRS 01	215	220	25	172023	FRS 01	290	295	9.7
171969	FRS 01	220	225	15	172024	FRS 01	290	295	15
171970	FRS 01	220	225	20	172025	FRS 01	290	295	20
171971	FRS 01	220	225	25	172026	FRS 01	290	295	25
171972	FRS 01	220	225	30	172027	FRS 01	295	300	25
171973	FRS 01	225	230	20	172028	FRS 01	295	300	30
171974	FRS 01	225	230	25	172029	FRS 01	300	305	15
171975	FRS 01	225	230	30	172030	FRS 01	300	305	20
171976	FRS 01	225	230	35	172031	FRS 01	300	305	25
171977	FRS 01	230	235	9.7	172032	FRS 01	300	305	30
171978	FRS 01	230	235	15	172033	FRS 01	305	310	15
171979	FRS 01	230	235	20	172034	FRS 01	305	310	20
171980	FRS 01	230	235	25	172035	FRS 01	305	310	25
171981	FRS 01	230	235	30	172036	FRS 01	305	310	30
171982	FRS 01	235	240	9.7	172037	FRS 01	310	315	15
171983	FRS 01	235	240	15	172038	FRS 01	310	315	20
171984	FRS 01	235	240	25	172039	FRS 01	310	315	25
171985	FRS 01	235	240	30	172040	FRS 01	320	325	9.7
171986	FRS 01	240	245	15	172041	FRS 01	320	325	15
171987	FRS 01	240	245	25	172042	FRS 01	320	325	25
171988	FRS 01	240	245	30	172043	FRS 01	320	325	30
171989	FRS 01	250	255	15	172044	FRS 01	325	330	30
171990	FRS 01	250	255	20	172045	FRS 01	330	335	15
171991	FRS 01	250	255	25	172046	FRS 01	330	335	25
171992	FRS 01	250	255	30	172047	FRS 01	330	335	50
171993	FRS 01	255	260	9.7	172048	FRS 01	335	340	25
171994	FRS 01	255	260	20	172049	FRS 01	335	340	30
171995	FRS 01	255	260	30	172050	FRS 01	335	340	40
171996	FRS 01	255	260	40	172051	FRS 01	340	345	15
171997	FRS 01	260	265	9.7	172052	FRS 01	340	345	25
171998	FRS 01	260	265	15	172053	FRS 01	340	345	30
171999	FRS 01	260	265	20	172054	FRS 01	340	345	40
172000	FRS 01	260	265	25	172055	FRS 01	345	350	25
172001	FRS 01	260	265	30	172056	FRS 01	350	355	15
172002	FRS 01	260	265	40	172057	FRS 01	350	355	25
172003	FRS 01	265	270	15	172058	FRS 01	350	355	30
172004	FRS 01	265	270	20	172059	FRS 01	360	365	15
172005	FRS 01	265	270	25	172060	FRS 01	360	365	25
172006	FRS 01	265	270	30	172061	FRS 01	370	375	15
172007	FRS 01	270	275	15	172062	FRS 01	370	375	30

**FRS 01**

Item No. Code d D L

**Sizes**



172063	FRS 01	380	385	15
172064	FRS 01	380	385	25
172065	FRS 01	390	395	25
172066	FRS 01	400	405	15
172067	FRS 01	400	405	25
172068	FRS 01	400	405	40
172069	FRS 01	420	425	25
172070	FRS 01	430	435	25
172071	FRS 01	440	445	25
172072	FRS 01	450	455	25
172073	FRS 01	450	455	40
172074	FRS 01	480	485	20
172075	FRS 01	480	485	25
172076	FRS 01	480	485	40
172077	FRS 01	490	495	25
172078	FRS 01	500	505	25
172079	FRS 01	500	505	40