

## FRK 01

### Description

Product group	Guide elements
Design	Piston 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

FRK 01 guide rings made of PTFE compounds serve to guide pistons, 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. 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

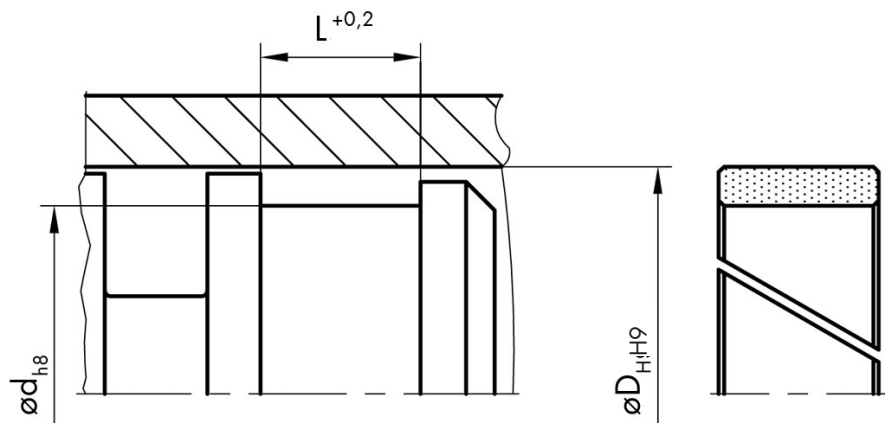
Standard PTFE guide rings are supplied as strips with a 30° diagonal cut and a PTFE-bronze compound. Should you require non-standard cutting types or materials, please include these in your order.

### 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).



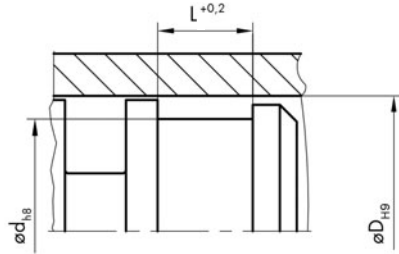
**FRK 01**

**Sizes**

Item No.	Code	D	d	L	Item No.	Code	D	d	L
172085	FRK 01	18	13	5.6	172143	FRK 01	60	55	9.7
172086	FRK 01	18	14	9.7	172144	FRK 01	60	55	15
172087	FRK 01	20	15	5.6	172145	FRK 01	60	56	8
172088	FRK 01	20	16	9.7	172146	FRK 01	62	56	12.8
172089	FRK 01	20	15	9.7	172147	FRK 01	63	57	12.8
172090	FRK 01	22	17	5.6	172148	FRK 01	63	58	5.6
172091	FRK 01	22	18	9.7	172149	FRK 01	63	58	9.7
172092	FRK 01	25	20	5.6	172150	FRK 01	63	58	15
172093	FRK 01	25	20	9.7	172151	FRK 01	63	58	20
172094	FRK 01	25	21	9.7	172152	FRK 01	63	58	25
172095	FRK 01	28	23	5.6	172153	FRK 01	65	59	12.8
172096	FRK 01	28	24	9.7	172154	FRK 01	65	60	5.6
172097	FRK 01	30	25	5.6	172155	FRK 01	65	60	9.7
172098	FRK 01	30	25	9.7	172156	FRK 01	65	60	15
172099	FRK 01	30	26	9.7	172157	FRK 01	68	63	5.6
172100	FRK 01	32	27	5.6	172158	FRK 01	68	63	9.7
172104	FRK 01	32	27	9.7	172159	FRK 01	68	62	12.8
172105	FRK 01	32	28	5.6	172160	FRK 01	70	64	12.8
172106	FRK 01	32	28	9.7	172161	FRK 01	70	65	5.6
172107	FRK 01	35	30	5.6	172162	FRK 01	70	65	9.7
172108	FRK 01	35	30	9.7	172163	FRK 01	70	65	15
172109	FRK 01	35	31	9.7	172164	FRK 01	75	69	12.8
172110	FRK 01	36	32	9.7	172165	FRK 01	75	70	5.6
172111	FRK 01	38	33	9.7	172166	FRK 01	75	70	9.7
172112	FRK 01	38	34	9.7	172167	FRK 01	75	70	15
172113	FRK 01	40	35	5.6	172168	FRK 01	80	74	12.8
172114	FRK 01	40	35	9.7	172169	FRK 01	80	75	5.6
172115	FRK 01	40	35	12	172170	FRK 01	80	75	9.7
172116	FRK 01	40	35	15	172171	FRK 01	80	75	15
172117	FRK 01	40	36	9.7	172172	FRK 01	80	75	20
172118	FRK 01	42	37	5.6	172173	FRK 01	80	75	25
172119	FRK 01	42	37	9.7	172174	FRK 01	85	80	5.6
172120	FRK 01	42	38	9.7	172175	FRK 01	85	80	9.7
172121	FRK 01	45	40	5.6	172176	FRK 01	85	80	15
172122	FRK 01	45	40	9.7	172177	FRK 01	85	80	20
172123	FRK 01	45	40	15	172178	FRK 01	90	85	5.6
172124	FRK 01	48	43	5.6	172179	FRK 01	90	85	9.7
172125	FRK 01	48	43	9.7	172180	FRK 01	90	85	15
172126	FRK 01	50	45	5.6	172181	FRK 01	90	85	20
172127	FRK 01	50	45	9.7	172182	FRK 01	90	85	25
172128	FRK 01	50	45	12	172183	FRK 01	95	90	5.6
172129	FRK 01	50	45	15	172184	FRK 01	95	90	9.7
172130	FRK 01	50	45	25	172185	FRK 01	95	90	15
172131	FRK 01	50	46	10	172186	FRK 01	100	95	5.6
172132	FRK 01	52	46	12.8	172187	FRK 01	100	95	9.7
172133	FRK 01	52	47	5.6	172188	FRK 01	100	95	15
172134	FRK 01	55	49	12.8	172189	FRK 01	100	95	20
172135	FRK 01	55	50	5.6	172190	FRK 01	100	95	25
172136	FRK 01	55	50	9.7	172191	FRK 01	105	100	5.6
172137	FRK 01	55	50	15	172192	FRK 01	105	100	9.7
172138	FRK 01	56	50	9.7	172193	FRK 01	105	100	15
172139	FRK 01	58	52	9.7	172194	FRK 01	110	104	12.8
172140	FRK 01	58	52	12.8	172195	FRK 01	110	105	9.7
172141	FRK 01	60	54	12.8	172196	FRK 01	110	105	15
172142	FRK 01	60	55	5.6	172197	FRK 01	110	105	20

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**Sizes**



Item No.	Code	D	d	L	Item No.	Code	D	d	L
172198	FRK 01	110	105	25	172253	FRK 01	180	175	30
172199	FRK 01	115	109	12.8	172254	FRK 01	185	180	15
172200	FRK 01	115	110	12.8	172255	FRK 01	185	180	25
172201	FRK 01	115	110	15	172256	FRK 01	190	185	15
172202	FRK 01	115	110	20	172257	FRK 01	190	185	20
172203	FRK 01	120	114	12.8	172258	FRK 01	190	185	25
172204	FRK 01	120	115	9.7	172259	FRK 01	195	190	9.7
172205	FRK 01	120	115	15	172260	FRK 01	195	190	15
172206	FRK 01	120	115	20	172261	FRK 01	200	195	5.6
172207	FRK 01	120	115	25	172262	FRK 01	200	195	9.7
172208	FRK 01	125	119	12.8	172263	FRK 01	200	195	15
172209	FRK 01	125	120	5.6	172264	FRK 01	200	195	20
172210	FRK 01	125	120	9.7	172265	FRK 01	200	195	25
172211	FRK 01	125	120	15	172266	FRK 01	200	195	30
172212	FRK 01	125	120	20	172267	FRK 01	200	195	40
172213	FRK 01	125	120	25	172268	FRK 01	210	205	15
172214	FRK 01	130	124	12.8	172269	FRK 01	210	205	25
172215	FRK 01	130	125	5.6	172270	FRK 01	210	206	25
172216	FRK 01	130	125	9.7	172271	FRK 01	220	215	15
172217	FRK 01	130	125	15	172272	FRK 01	220	215	20
172218	FRK 01	130	125	20	172273	FRK 01	220	215	25
172219	FRK 01	130	125	25	172274	FRK 01	220	215	30
172220	FRK 01	135	130	15	172275	FRK 01	220	215	40
172221	FRK 01	135	130	25	172276	FRK 01	225	220	25
172222	FRK 01	135	130	45	172277	FRK 01	225	220	30
172223	FRK 01	140	135	9.7	172278	FRK 01	230	225	15
172224	FRK 01	140	135	15	172279	FRK 01	230	225	25
172225	FRK 01	140	135	20	172280	FRK 01	230	225	30
172226	FRK 01	140	135	25	172281	FRK 01	230	225	40
172227	FRK 01	140	135	30	172282	FRK 01	235	230	25
172228	FRK 01	145	140	15	172283	FRK 01	235	230	30
172229	FRK 01	150	145	9.7	172284	FRK 01	240	235	15
172230	FRK 01	150	145	15	172285	FRK 01	240	235	20
172231	FRK 01	150	145	20	172286	FRK 01	240	235	25
172232	FRK 01	150	145	25	172287	FRK 01	240	235	30
172233	FRK 01	155	150	25	172288	FRK 01	240	235	40
172234	FRK 01	160	155	9.7	172289	FRK 01	245	240	9.7
172235	FRK 01	160	155	15	172290	FRK 01	245	240	15
172236	FRK 01	160	155	20	172291	FRK 01	245	240	20
172237	FRK 01	160	155	25	172292	FRK 01	245	240	25
172238	FRK 01	160	155	35	172293	FRK 01	245	240	30
172239	FRK 01	160	155	40	172294	FRK 01	250	245	15
172240	FRK 01	165	160	9.7	172295	FRK 01	250	245	20
172241	FRK 01	165	160	15	172296	FRK 01	250	245	25
172242	FRK 01	165	160	25	172297	FRK 01	250	245	30
172243	FRK 01	165	160	30	172298	FRK 01	260	255	15
172244	FRK 01	170	165	15	172299	FRK 01	260	255	25
172245	FRK 01	170	165	25	172300	FRK 01	260	255	30
172246	FRK 01	170	165	30	172301	FRK 01	270	265	15
172247	FRK 01	175	170	15	172302	FRK 01	270	265	20
172248	FRK 01	175	170	25	172303	FRK 01	270	265	25
172249	FRK 01	175	170	30	172304	FRK 01	270	265	30
172250	FRK 01	180	175	9.7	172305	FRK 01	275	270	30
172251	FRK 01	180	175	15	172306	FRK 01	280	275	9.7
172252	FRK 01	180	175	25	172307	FRK 01	280	275	15

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## Sizes

Item No.	Code	D	d	L	Item No.	Code	D	d	L
172308	FRK 01	280	275	20	172363	FRK 01	430	425	25
172309	FRK 01	280	275	25	172364	FRK 01	440	435	40
172310	FRK 01	280	275	30	172365	FRK 01	450	442	25
172311	FRK 01	285	280	30	172366	FRK 01	450	445	25
172312	FRK 01	290	285	9.7	172367	FRK 01	450	445	40
172313	FRK 01	290	285	15	172368	FRK 01	460	455	25
172314	FRK 01	290	285	25	172369	FRK 01	480	475	25
172315	FRK 01	300	295	9.7	172370	FRK 01	500	495	25
172316	FRK 01	300	295	15	172371	FRK 01	500	495	40
172317	FRK 01	300	295	20	172372	FRK 01	520	515	25
172318	FRK 01	300	295	25	172373	FRK 01	550	545	25
172319	FRK 01	300	295	30	172374	FRK 01	600	595	25
172320	FRK 01	300	295	40	172375	FRK 01	650	645	25
172321	FRK 01	305	300	25					
172322	FRK 01	310	305	9.7					
172323	FRK 01	315	310	25					
172324	FRK 01	320	315	9.7					
172325	FRK 01	320	315	15					
172326	FRK 01	320	315	25					
172327	FRK 01	320	315	30					
172328	FRK 01	320	315	40					
172329	FRK 01	325	320	9.7					
172330	FRK 01	330	325	9.7					
172331	FRK 01	330	325	25					
172332	FRK 01	330	325	40					
172333	FRK 01	335	330	9.7					
172334	FRK 01	340	335	25					
172335	FRK 01	345	340	30					
172336	FRK 01	350	340	25					
172337	FRK 01	350	345	9.7					
172338	FRK 01	350	345	15					
172339	FRK 01	350	345	20					
172340	FRK 01	350	345	25					
172341	FRK 01	350	345	50					
172342	FRK 01	360	355	9.7					
172343	FRK 01	360	355	15					
172344	FRK 01	360	355	20					
172345	FRK 01	360	355	25					
172346	FRK 01	360	355	30					
172347	FRK 01	370	365	25					
172348	FRK 01	370	365	30					
172349	FRK 01	380	375	15					
172350	FRK 01	380	375	25					
172351	FRK 01	380	375	30					
172352	FRK 01	390	385	15					
172353	FRK 01	400	300	15					
172354	FRK 01	400	392	40					
172355	FRK 01	400	395	15					
172356	FRK 01	400	395	25					
172357	FRK 01	400	395	30					
172358	FRK 01	400	395	40					
172359	FRK 01	410	405	15					
172360	FRK 01	410	405	25					
172361	FRK 01	415	410	25					
172362	FRK 01	420	415	25					