



## SDR 01

### Description

Product group	Rod seal
Design	DR V-pack ring
Profile no.	01
Specification	E suitable for one-sided pressure load
Seal material	NBR 90 3006/ NBR fabric NBR F 90 3005

### Operational application limits

Pressure (MPa): You will find pressure details in chapter SDS 01 1/0  
Temperature (°C): -30 to +100  
Running speed (m/s):  $\leq 0.5$

### 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

Single V-packings are supplied individually so they may be used in the desired combination required for the V-packing set.

### Installation

V-packing sets are always installed in axially accessible installation housings. The rings are installed individually. The V-packing set must not be compressed, i.e. the L dimension and the H dimension must always be the same.

### Remarks

The replacement of single damaged or worm V-pack rings is generally not recommended as the service life of the repaired cylinder will be compromised. Complete sets should always be replaced for optimal service life. With the aid of single V-packings, you have the possibility of putting together your own individual set. In the "Combination Table" on page 186, you will find the stacked heights of all reasonable combinations. Please note that elastomer V-packings must always be installed between two fabric V-packings, as an elastomer V-packing should never touch a support ring or a pressure ring. Depending on the installation width available, the SDS 01 1/0 (page 178) V-packing set can be supplemented by any number of individual V-pack rings (SDR 01).

### 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).

**SDR 01****Sizes**

Item No.	Code	d	D	Mat.
173789	SDR 01 E	8	18	NBR
173858	SDR 01 E	8	18	NBR F
173790	SDR 01 E	10	20	NBR
173859	SDR 01 E	10	20	NBR F
173791	SDR 01 E	12	22	NBR
173860	SDR 01 E	12	22	NBR F
173792	SDR 01 E	14	24	NBR
173861	SDR 01 E	14	24	NBR F
173793	SDR 01 E	15	25	NBR
173862	SDR 01 E	15	25	NBR F
173794	SDR 01 E	16	26	NBR
173863	SDR 01 E	16	26	NBR F
173795	SDR 01 E	18	28	NBR
173864	SDR 01 E	18	28	NBR F
173796	SDR 01 E	20	30	NBR
173865	SDR 01 E	20	30	NBR F
173797	SDR 01 E	20	32	NBR
173866	SDR 01 E	20	32	NBR F
173798	SDR 01 E	22	32	NBR
173867	SDR 01 E	22	32	NBR F
173799	SDR 01 E	22	34	NBR
173868	SDR 01 E	22	34	NBR F
173800	SDR 01 E	25	37	NBR
173869	SDR 01 E	25	37	NBR F
173801	SDR 01 E	25	40	NBR
173870	SDR 01 E	25	40	NBR F
173802	SDR 01 E	28	40	NBR
173871	SDR 01 E	28	40	NBR F
173803	SDR 01 E	28	43	NBR
173872	SDR 01 E	28	43	NBR F
173804	SDR 01 E	30	42	NBR
173873	SDR 01 E	30	42	NBR F
173805	SDR 01 E	30	45	NBR
173874	SDR 01 E	30	45	NBR F
173806	SDR 01 E	32	44	NBR
173875	SDR 01 E	32	44	NBR F
173807	SDR 01 E	32	47	NBR
173876	SDR 01 E	32	47	NBR F
173808	SDR 01 E	35	47	NBR
173877	SDR 01 E	35	47	NBR F
173809	SDR 01 E	35	50	NBR
173878	SDR 01 E	35	50	NBR F
173810	SDR 01 E	36	48	NBR
173879	SDR 01 E	36	48	NBR F
173811	SDR 01 E	36	51	NBR
173880	SDR 01 E	36	51	NBR F
173812	SDR 01 E	40	52	NBR
173881	SDR 01 E	40	52	NBR F
173813	SDR 01 E	40	55	NBR
173882	SDR 01 E	40	55	NBR F
173814	SDR 01 E	42	54	NBR
173883	SDR 01 E	42	54	NBR F
173815	SDR 01 E	42	57	NBR
173884	SDR 01 E	42	57	NBR F
173816	SDR 01 E	45	60	NBR

**SDR 01****Sizes**

Item No.	Code	d	D	Mat.
173885	SDR 01 E	45	60	NBR F
173817	SDR 01 E	45	65	NBR
173886	SDR 01 E	45	65	NBR F
173818	SDR 01 E	50	65	NBR
173887	SDR 01 E	50	65	NBR F
173819	SDR 01 E	50	70	NBR
173888	SDR 01 E	50	70	NBR F
173820	SDR 01 E	55	70	NBR
173889	SDR 01 E	55	70	NBR F
173821	SDR 01 E	55	75	NBR
173890	SDR 01 E	55	75	NBR F
173822	SDR 01 E	56	71	NBR
173891	SDR 01 E	56	71	NBR F
173823	SDR 01 E	56	76	NBR
173892	SDR 01 E	56	76	NBR F
173824	SDR 01 E	60	75	NBR
173893	SDR 01 E	60	75	NBR F
173825	SDR 01 E	60	80	NBR
173894	SDR 01 E	60	80	NBR F
173826	SDR 01 E	63	78	NBR
173895	SDR 01 E	63	78	NBR F
173827	SDR 01 E	63	83	NBR
173896	SDR 01 E	63	83	NBR F
173828	SDR 01 E	65	80	NBR
173897	SDR 01 E	65	80	NBR F
173829	SDR 01 E	65	85	NBR
173898	SDR 01 E	65	85	NBR F
173830	SDR 01 E	70	85	NBR
173899	SDR 01 E	70	85	NBR F
173831	SDR 01 E	70	90	NBR
173900	SDR 01 E	70	90	NBR F
173832	SDR 01 E	75	90	NBR
173901	SDR 01 E	75	90	NBR F
173833	SDR 01 E	75	95	NBR
173902	SDR 01 E	75	95	NBR F
173834	SDR 01 E	80	95	NBR
173903	SDR 01 E	80	95	NBR F
173835	SDR 01 E	80	100	NBR
173904	SDR 01 E	80	100	NBR F
173836	SDR 01 E	85	100	NBR
173905	SDR 01 E	85	100	NBR F
173837	SDR 01 E	85	105	NBR
173906	SDR 01 E	85	105	NBR F
173838	SDR 01 E	90	105	NBR
173907	SDR 01 E	90	105	NBR F
173839	SDR 01 E	90	110	NBR
173908	SDR 01 E	90	110	NBR F
173840	SDR 01 E	100	115	NBR
173909	SDR 01 E	100	115	NBR F
173841	SDR 01 E	100	120	NBR
173910	SDR 01 E	100	120	NBR F
173842	SDR 01 E	110	125	NBR
173911	SDR 01 E	110	125	NBR F
173843	SDR 01 E	110	130	NBR
173912	SDR 01 E	110	130	NBR F

**SDR 01****Sizes**

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Item No.	Code	d	D	Mat.
173844	SDR 01 E	115	130	NBR
173913	SDR 01 E	115	130	NBR F
173845	SDR 01 E	115	140	NBR
173914	SDR 01 E	115	140	NBR F
173846	SDR 01 E	125	140	NBR
173915	SDR 01 E	125	140	NBR F
173847	SDR 01 E	125	150	NBR
173916	SDR 01 E	125	150	NBR F
173848	SDR 01 E	140	155	NBR
173917	SDR 01 E	140	155	NBR F
173849	SDR 01 E	140	165	NBR
173918	SDR 01 E	140	165	NBR F
173850	SDR 01 E	150	170	NBR
173919	SDR 01 E	150	170	NBR F
173851	SDR 01 E	150	180	NBR
173920	SDR 01 E	150	180	NBR F
173852	SDR 01 E	160	180	NBR
173921	SDR 01 E	160	180	NBR F
173853	SDR 01 E	160	190	NBR
173922	SDR 01 E	160	190	NBR F
173854	SDR 01 E	180	200	NBR
173923	SDR 01 E	180	200	NBR F
173855	SDR 01 E	180	210	NBR
173924	SDR 01 E	180	210	NBR F
173856	SDR 01 E	200	220	NBR
173925	SDR 01 E	200	220	NBR F
173857	SDR 01 E	200	230	NBR
173926	SDR 01 E	200	230	NBR F

**Combination table for  
V-packing sets**

With the V-packing set SDS 01 1/0 further single V-packings can be added to reach the prescribed installation height L. In the tables to the right, you will find the installation heights for the most common combinations:

d	D	Installation housing height (L) for V-packing set combinations:							
		1/0	2/0	3/0	4/0	5/0	2/1	3/2	
8	18	9.1	11.6	14.1	16.6	19.1	13.8	18.5	
10	20	9.1	11.6	14.1	16.6	19.1	13.8	18.5	
12	22	9.1	11.6	14.1	16.6	19.1	13.8	18.5	
14	24	9.5	11.8	14.1	16.4	18.7	14	18.5	
15	25	9.1	11.6	14.1	16.6	19.1	13.8	18.5	
16	26	9.1	11.6	14.1	16.6	19.1	13.8	18.5	
18	28	9.3	11.8	14.3	16.8	19.3	13.9	18.5	
20	30	9.5	11.8	14.1	16.4	18.7	14	18.5	
20	32	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
22	32	9.5	11.8	14.1	16.4	18.7	14	18.5	
22	34	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
25	37	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
25	40	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
28	40	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
28	43	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
30	42	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
30	45	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
32	44	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
32	47	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
35	47	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
35	50	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
36	48	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
36	51	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
40	52	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
40	55	11.3	14.2	17.1	20	22.9	16.9	22.5	
42	54	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
42	57	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
45	60	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
45	65	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
50	65	11.9	14.7	17.5	20.3	23.1	17.2	22.5	
50	70	15	19	23	27	31	22.5	30	
55	70	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
55	75	15	19	23	27	31	22.5	30	
56	71	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
56	76	18.4	23.2	28	32.8	37.6	27.7	37	
60	75	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
60	80	18.4	23.2	28	32.8	37.6	27.7	37	
63	78	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
63	83	18.4	23.2	28	32.8	37.6	27.7	37	
65	80	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
65	85	19.4	24.6	29.8	35	40.2	29.7	40	
70	85	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
70	90	18.8	24.3	29.8	35.3	40.8	29.4	40	
75	90	12.3	14.9	17.5	20.1	22.7	17.4	22.5	
75	95	19.6	25	30.4	35.8	41.2	29.8	40	
80	95	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
80	100	20	25.3	30.6	35.9	41.2	30	40	
85	100	11.7	14.6	17.5	20.4	23.3	17.1	22.5	
85	105	20	25	30	35	40	30	40	
90	105	11.9	14.7	17.5	20.3	23.1	17.2	22.5	
90	110	20.3	25.5	30.7	35.9	41.1	30.15	40	
100	115	15	18.8	22.6	26.4	30.2	22.5	30	
100	120	18.8	24.3	29.8	35.3	40.8	29.4	40	
110	125	15.4	19.5	23.6	27.7	31.8	22.7	30	
110	130	18.4	23.9	29.4	34.9	40.4	29.2	40	

**Combination table for  
V-packing sets**

	d	D	Installation housing height (L) for V-packing set combinations:						
			1/0	2/0	3/0	4/0	5/0	2/1	3/2
With the V-packing set SDS 01 1/0 further single V-packings can be added to reach the prescribed installation height L. In the tables to the right, you will find the installation heights for the most common combinations:	115	130	15.4	19.2	23	26.8	30.6	22.7	30
	115	140	23.5	29.4	35.3	41.2	47.1	34.75	46
	125	140	16.4	20.8	25.2	29.6	34	25.2	34
	125	150	23.6	29.6	35.6	41.6	47.6	34.8	46
	140	155	17.6	21.8	26	30.2	34.4	25.8	34
	140	165	23	29	35	41	47	34.5	46
	150	170	19.6	24.8	30	35.2	40.4	29.8	40
	150	180	29.4	37.9	46.4	54.9	63.4	44.7	60
	160	180	19.4	24.7	30	35.3	40.6	29.7	40
	160	190	28.5	36.5	44.5	52.5	60.5	44.25	60
	180	200	19.4	24.7	30	35.3	40.6	29.7	40
	180	210	28.5	36.5	44.5	52.5	60.5	44.25	60
	200	220	19.6	24.8	30	35.2	40.4	29.8	40
	200	230	28.5	36.5	44.5	52.5	60.5	44.25	60