



SDMS is a V-pack rod seal for heavy duty applications offering excellent performance and long life even under difficult conditions such as pressure surges, vibration and some misalignment. The seal consists of a male and female adaptor and three V-rings.

The male adaptor or **spreader ring** is usually manufactured in POM but some of the larger sizes are rubberised fabric. It has radial grooves to ensure equal pressure to both sealing edges of the V-ring.

All sizes have **V-rings** manufactured from rubberised fabric increasing strength and durability and allowing an oil film **to lubricate the other parts of the seal**. The smaller sizes are supplied with a rubber V-ring between the rubberised fabric V-rings.

The female adaptor or **base ring** uses a hard rubberised fabric and a **POM back-up ring** to support the base ring and protect him from extrusion damage. At high pressure the lips of the adaptor act as a secondary seal.

Operating conditions

Pressure	≤ 50 MPa
Temperature	-30°C to 120°C
Speed	≤ 0,5 m/s

Materials

Spreader ring ①	Acetal resin
V-ring ②	generally: 1 x NBR + 2 x NBR-fabric
Base ring ③	NBR-fabric
Anti-extrusion ring ④	Acetal resin

Assembly

In open housings with adjustable length

Advantages

- High operating temperature capability
- For difficult operating conditions: high pressure peaks, bad sliding surfaces, ...
- Not sensitive to contamination of the medium
- The integrated anti-extrusion ring prevents the seal material from extrusion at higher pressure

Please contact us for applications approaching maximum values.

d	D	L	h	Reference
30	45	22,2	3,8	SDMS-177118-131
36	51	24	4,14	SDMS-200141-131
40	55	22,62	4,14	SDMS-216157-131
45	60		22,22	SDMS-236177-131
50	65	24,6	4,34	SDMS-255196-131
	65	26	4,34	SDMS-255196-B-131
52	72	32,5	5,8	SDMS-284204-131
60	75	19	3	SDMS-295236-131
	80	32,15	5,66	SDMS-314236-131
63,5	82,55	26,59	4,76	SDMS-325250-131
65	80	26	4	SDMS-314255-131
70	83	25	4,25	SDMS-326275-131
	90	30	5,08	SDMS-354275-131
80	100	30	4,83	SDMS-393314-131
85	105	30	5,35	SDMS-413334-B-131
110	130	30	5	SDMS-511433-131
	135	41,5	7	SDMS-531433-131
115	130	25,49		SDMS-511452-131
120	145	39,5	7,25	SDMS-570472-131
175	190	25	5	SDMS-748688-131
250	280	40	7,5	SDMS-1102984-131

Calculation of housing length L



Control the length H. The housing length L must be calculated in accordance to the table below.

B	≤ 6,5	6,6 → 10	10,1 → 18	18,1 → 24,9	≥ 25
L	H+1	H+1,2	H+1,4	H+2	H+2,5