



sterling range

www.first4seals.com



single spring

mechanical seal range

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TYPE SMG1, SMG12 & SMG13 MECHANICAL SEALS

Type SMG1, SMG12 and SMG13 Seals are robust rubber bellows seals with a wide non-DIN cross section for optimum flexibility and durability.

Types 12 and 13 have an extended bellows tail to meet DIN L1K and DIN L1N working lengths when fitted with 'O' Ring mounted or Cup mounted DIN stationary seats.



Benefits

- Robust – Heavy duty bellows
- Self adjusting – Bellows take care of wear and shaft float
- Long life – Due to rugged construction
- Non clogging – Open single coil spring and bellows
- Non fretting – No moving 'O' Rings
- Bi-directional – Heavy duty bellows drive

All metal parts in Stainless Steel as standard.

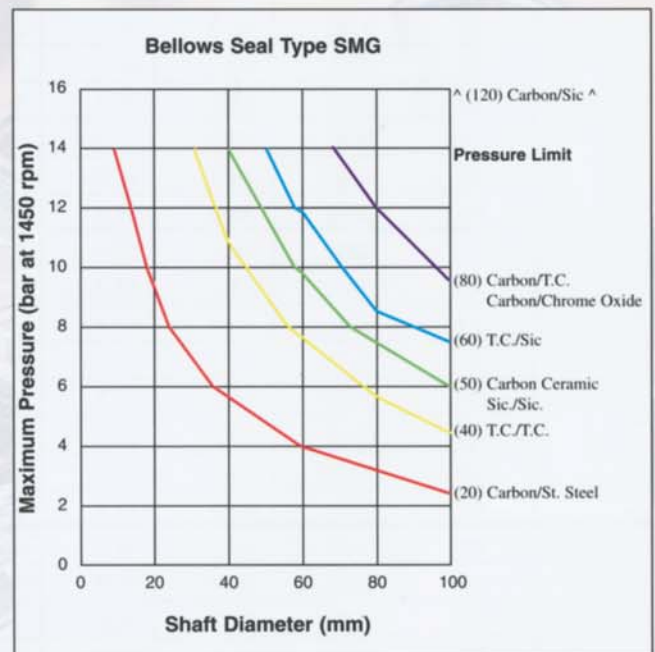
Service Capability

- Maximum Speed – 15m/sec*
- Maximum Pressure – 14 bar*
- Temperature – -40°C to +200°C
- Media – Dependant on materials

* See P.V. Curves for maximum speed/pressure combination

NOTE

P.V. Curves for water at 20°C

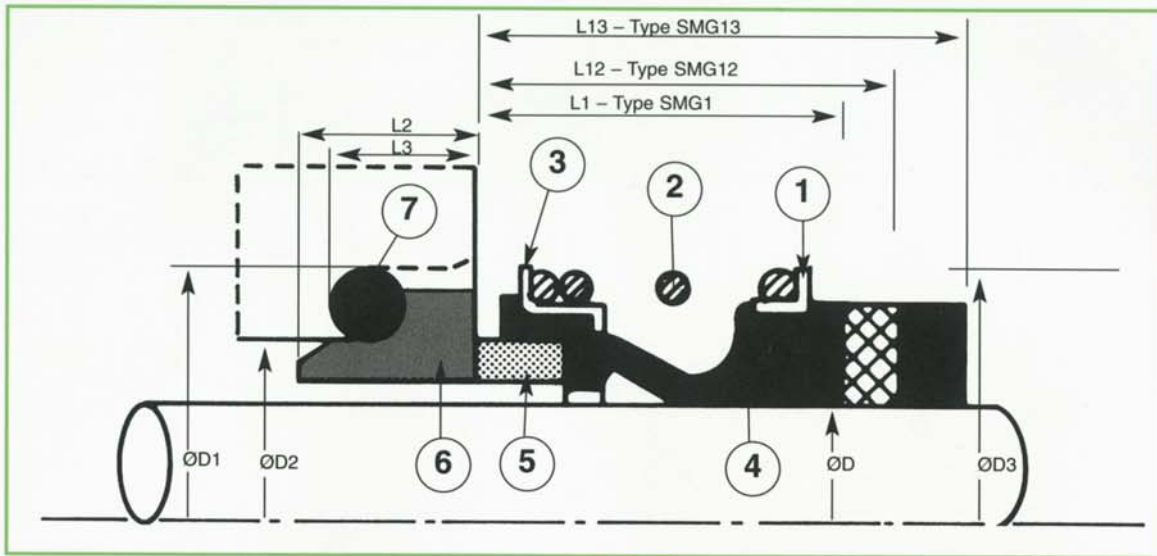


Materials

- Rotary Face (5) – Carbon, Reaction Bonded Silicon Carbide
- Stationary Face (6) – Ceramic, Reaction Bonded Silicon Carbide
- Spring (2) – 316 Stainless Steel
- Metal Parts (1,3) – 316 Stainless Steel
- Elastomers (4,7) – Nitrile, EP, Viton

OTHER MATERIALS AVAILABLE TO SPECIAL ORDER

SEAL TYPES SMG1, SMG12 & SMG13



Shaft Size D	Size Code	D1 mm	D2 mm	D3 mm	L1 mm	L12 mm	L13 mm	L2 mm	L3 mm
10	0100	19.2	15.5	24.0	14.5	25.9	33.4	9.0	6.6
12	0120	21.6	17.5	24.0	15.0	25.9	33.4	8.0	5.6
14	0140	24.6	20.5	28.0	17.0	28.4	33.4	8.0	5.6
15	0150	24.6	20.5	28.0	17.0	28.4	33.4	9.0	6.6
16	0160	28.0	22.0	28.0	17.0	28.4	33.4	10.0	7.5
18	0180	30.0	24.0	31.0	19.5	30.0	37.5	10.5	8.0
20	0200	35.0	29.5	36.0	21.5	30.0	37.5	10.0	7.5
22	0220	35.0	29.5	36.0	21.5	30.0	37.5	10.0	7.5
24	0240	38.0	32.0	40.5	22.5	32.5	42.5	10.0	7.5
25	0250	38.0	32.0	41.0	23.0	32.5	42.5	10.0	7.5
28	0280	42.0	36.0	47.0	26.5	35.0	42.5	11.5	9.0
30	0300	45.0	39.2	47.0	26.5	35.0	42.5	13.0	10.5
32	0320	48.0	42.2	51.0	27.5	35.0	47.5	13.0	10.5
33	0330	50.0	42.2	51.0	27.5	35.0	47.5	13.5	11.0
35	0350	52.0	46.2	55.0	28.5	35.0	47.5	13.5	11.0
38	0380	55.0	49.2	58.0	30.0	36.0	46.0	13.0	10.3
40	0400	58.0	52.2	60.0	30.0	36.0	46.0	13.5	10.8
43	0430	62.0	53.3	63.0	30.0	36.0	51.0	14.5	12.0
45	0450	64.0	53.3	65.0	30.0	36.0	51.0	14.5	11.6
48	0480	68.4	59.7	69.0	30.5	36.0	51.0	14.5	11.6
50	0500	69.3	60.8	71.0	30.5	38.0	50.5	14.5	11.6
53	0530	72.3	63.8	76.0	33.0	36.5	59.0	15.0	12.3
55	0550	75.4	66.5	78.0	35.0	36.5	59.0	16.0	13.3
58	0580	78.4	69.5	82.0	37.0	41.5	59.0	16.0	13.3
60	0600	80.4	71.5	85.0	38.0	41.5	59.0	16.0	13.3
65	0650	85.4	76.5	90.0	40.0	41.5	69.0	16.0	13.0
68	0680	91.5	82.7	94.0	40.0	48.7	68.7	16.0	13.7
70	0700	92.0	83.0	97.0	40.0	48.7	68.7	16.0	13.0
75	0750	99.0	90.2	102.0	40.0	48.0	68.7	17.0	14.0
80	0800	104.0	95.2	108.0	40.0	48.0	78.0	18.0	15.0
85	0850	109.0	100.2	117.0	41.0	46.0	76.0	18.0	14.8
90	0900	114.0	105.2	126.0	45.0	51.0	76.0	18.0	14.8
95	0950	120.3	111.6	131.0	46.0	51.0	76.0	19.0	15.8
100	1000	123.3	114.5	136.0	47.0	51.0	76.0	19.0	15.8