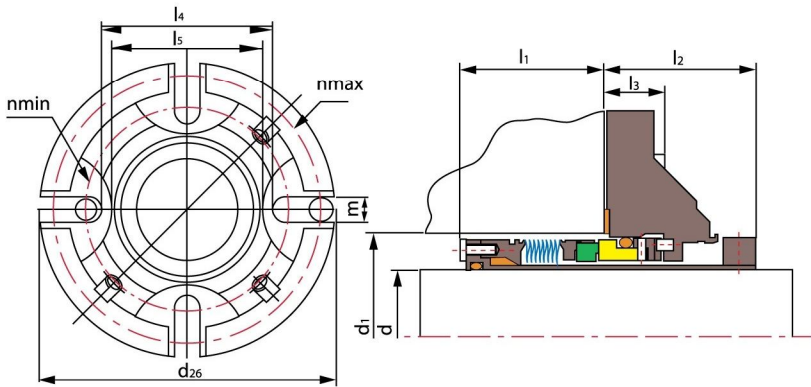




TSMB-A04

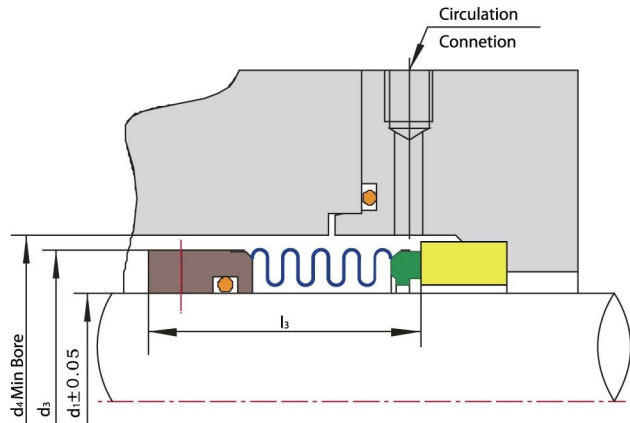
Operating Limits

Pressure: ≤2MPa
Speed: ≤20m/s
Temperature: -30°C ~+204°C

- Rotary Ring(SiC/Carbon/TC)
- Stationary Ring(SiC/TC)
- Secondary Seal(MTON/Encapsulated Ring/PTFE/Flexible Carbon)
- Metal Bellows(SUS316L/AM350/Inconel718/Titanium/Hastelloy-C/Alloy-20)
- Other Parts(SUS304/SUS316/Titanium/Hastelloy-C)

d (inches)	d ₂₆	l ₄	l ₅	l ₃	d ₁		n		m	l ₁	l ₂
					min	max	min	max			
1.000	4.125	2.125	1.937	0.519	1.625	1.937	2.687	3.562	1/2	1.531	1.590
1.125	4.250	2.250	2.063	0.519	1.750	2.062	2.812	3.687	1/2	1.531	1.590
1.250	4.375	2.375	2.187	0.519	1.875	2.187	2.937	3.812	1/2	1.531	1.590
1.375	4.375	2.500	2.312	0.519	2.000	2.250	3.062	3.812	1/2	1.531	1.590
1.500	5.000	2.812	2.562	0.644	2.250	2.375	3.375	4.437	1/2	1.687	1.752
1.625	5.000	2.812	2.562	0.644	2.375	2.500	3.375	4.437	1/2	1.687	1.752
1.750	5.500	3.187	2.812	0.644	2.500	2.750	3.750	4.937	1/2	1.687	1.752
1.875	5.500	3.187	2.812	0.644	2.625	2.875	3.750	4.937	1/2	1.687	1.752
2.000	6.000	3.562	3.063	0.644	2.750	3.000	4.125	5.437	1/2	1.750	1.752
2.000-AC	5.250	3.450	3.035	0.644	2.750	3.000	4.000	4.750	1/2	1.750	1.752
2.125	6.000	3.562	3.063	0.644	2.875	3.125	4.125	5.437	1/2	1.750	1.752
2.250	6.500	3.812	3.312	0.644	3.000	3.250	4.500	5.812	5/8	1.750	1.752
2.375	6.500	3.812	3.312	0.644	3.125	3.375	4.500	5.812	5/8	1.750	1.752
2.500	7.000	4.312	3.812	0.769	3.375	3.625	5.000	6.312	5/8	2.031	1.877
2.625	7.000	4.312	3.812	0.769	3.500	3.750	5.000	6.312	5/8	2.031	1.877
2.750	7.000	4.312	3.812	0.769	3.625	3.875	5.000	6.312	5/8	2.031	1.877
2.875	7.500	4.937	4.250	0.769	3.750	4.125	5.625	6.812	5/8	2.031	1.877
3.000	7.500	4.937	4.250	0.769	3.875	4.250	5.625	6.812	5/8	2.150	1.877
3.125	7.500	4.937	4.250	0.769	4.000	4.375	5.625	6.812	5/8	2.150	1.877
3.250	8.000	5.312	4.625	0.769	4.125	4.500	6.125	7.187	3/4	2.150	1.877
3.375	8.000	5.312	4.625	0.769	4.250	4.625	6.125	7.187	3/4	2.150	1.877
3.500	8.000	5.312	4.625	0.769	4.375	4.750	6.125	7.187	3/4	2.150	1.877
3.625	8.500	5.937	5.000	0.769	4.500	5.000	6.750	7.687	3/4	2.150	1.877
3.750	8.500	5.937	5.000	0.769	4.625	5.125	6.750	7.687	3/4	2.150	1.877
3.875	9.000	6.625	5.375	0.769	4.875	5.500	7.437	8.187	3/4	2.150	1.877
4.000	9.000	6.625	5.375	0.769	4.875	5.500	7.437	8.187	3/4	2.150	1.877

d (mm)	d ₂₆	l ₄	l ₅	l ₃	d ₁		n		m	l ₁	l ₂
					min	max	min	max			
24	104.8	54.0	49.2	13.2	41.0	49.0	67.0	90.5	12	38.9	40.5
25	104.8	54.0	49.2	13.2	41.0	49.0	67.0	90.5	12	38.9	40.5
28	108.0	57.2	52.4	13.2	44.0	52.3	70.3	93.6	12	38.9	40.5
30	111.0	60.4	55.6	13.2	46.0	55.5	73.5	96.8	12	38.9	40.5
32	111.0	60.4	55.6	13.2	48.0	55.5	73.5	96.8	12	38.9	40.5
33	111.0	60.4	55.6	13.2	49.0	55.5	73.5	96.8	12	38.9	40.5
35	111.0	63.5	58.8	13.2	51.0	57.5	76.6	96.8	12	38.9	40.5
38	127.0	71.5	65.0	16.4	57.2	60.4	85.7	114.3	12	42.9	44.5
40	127.0	71.5	65.0	16.4	58.0	60.4	85.7	114.3	12	42.9	44.5
43	139.7	81.0	71.4	16.4	61.0	69.9	95.3	127.0	12	42.9	44.5
45	139.7	81.0	71.4	16.4	63.5	69.9	95.3	127.0	12	42.9	44.5
48	139.7	81.0	71.4	16.4	66.7	73.0	95.3	127.0	12	42.9	44.5
50	152.4	90.5	77.8	16.4	68.0	76.2	104.8	139.7	12	44.5	44.5
3	152.4	90.5	77.8	16.4	71.0	76.2	104.8	139.7	12	44.5	44.5
55	165.1	96.8	84.1	16.4	74.0	82.5	114.3	149.2	16	44.5	44.5
58	165.1	96.8	84.1	16.4	76.2	82.6	114.3	149.2	16	44.5	44.5
60	165.1	96.8	84.1	16.4	79.4	85.7	114.3	149.2	16	44.5	44.5
63	177.8	109.5	96.8	19.6	85.8	92.1	127.0	160.3	16	51.6	47.7
65	177.8	109.5	96.8	19.6	88.9	95.3	127.0	160.3	16	51.6	47.7
68	177.8	109.5	96.8	19.6	92.1	98.4	127.0	160.3	16	51.6	47.7
70	177.8	109.5	96.8	19.6	92.1	98.4	127.0	160.3	16	51.6	47.7
75	190.5	125.4	108.0	19.6	98.5	108.0	142.9	173.0	16	54.6	47.7
80	190.5	125.4	108.0	19.6	101.6	111.1	142.9	173.0	16	54.6	47.7
85	203.2	135.0	117.5	19.6	108.0	117.5	155.6	182.5	20	54.6	47.7
90	215.9	150.8	127.0	19.6	114.3	127.0	171.5	195.2	20	54.6	47.7
95	215.9	150.8	127.0	19.6	117.5	130.2	171.5	195.2	20	54.6	47.7
100	228.6	168.3	136.5	19.6	123.9	139.7	188.9	207.9	20	54.6	47.7



TSMB-PZ02

Operating Limits

Pressure: ≤2MPa
Speed: ≤25m/s
Temperature: -40°C ~+200°C

- Rotary Ring(Carbon/SiC/SSiC/TC)
- Stationary Ring(Carbon/SiC/SSiC)
- Expand Metal Bellows(SUS304/SUS316/AM350/ Inconel718/Titanium/ Hastelloy-C/Alloy-20)
- Other Parts(SUS304/SUS316/Titanium/Hastelloy-C)



seal size (mm)	d ₁	d ₃	d ₄	l ₃
0.750	19.05	31.00	34.90	31.50
0.875	22.23	36.00	38.10	37.00
1.000	25.40	39.00	41.30	37.50
1.125	28.58	42.00	44.50	38.00
1.250	31.75	46.00	47.60	43.00
1.375	34.93	48.50	50.80	43.00
1.500	38.10	51.50	57.20	42.00
1.625	41.28	58.40	60.30	47.00
1.750	44.45	58.40	63.50	47.00
1.875	47.63	63.70	66.70	46.50
2.000	50.80	63.70	69.90	46.50
2.125	53.98	69.00	73.00	56.50
2.250	57.15	73.30	76.20	56.50
2.375	60.33	76.70	79.40	56.50
2.500	63.50	79.40	82.60	56.50
2.625	66.68	83.00	85.70	66.50
2.750	69.85	87.80	96.00	65.50
2.875	73.02	94.00	99.00	65.50
3.000	76.20	94.00	100.00	65.50
3.125	79.37	100.60	104.00	75.00
3.250	82.55	100.60	108.00	75.00
3.375	85.72	106.00	111.00	75.00
3.500	88.90	110.30	115.00	75.00
3.625	92.07	114.90	118.00	75.00
3.750	95.25	114.90	121.00	75.00
3.875	98.42	121.30	124.00	75.00
4.000	101.60	121.30	127.00	75.00

seal size (mm)	d ₁	d ₃	d ₄	l ₃
18	18	31.0	34	31.5
20	20	31.0	36	31.5
22	22	31.0	38	31.5
4	4	36.0	40	36.7
25	25	36.0	41	37.0
28	28	39.0	44	37.5
30	30	42.0	46	38.0
32	32	46.0	48	43.0
33	33	46.0	49	43.0
35	35	48.5	51	43.0
38	38	51.5	58	42.0
40	40	54.0	60	42.0
43	43	58.4	63	47.0
45	45	58.4	65	47.0
48	48	63.7	68	47.0
50	50	63.7	70	46.5
53	53	69.0	73	56.5
55	55	71.0	75	56.5
58	58	73.3	83	56.5
60	60	76.7	85	56.5
63	63	79.4	88	56.5
65	65	83.0	90	66.5
68	68	87.8	93	66.5
70	70	87.8	95	65.5
75	75	94.0	104	65.5
80	80	100.6	109	75.0
85	85	106.0	114	75.0
90	90	110.3	119	75.0
95	95	114.9	124	75.0
100	100	121.3	129	75.0