



TS 109B

Operating Limits

Pressure: $\leq 2.5\text{MPa}$

Speed: $\leq 25\text{m/s}$

Temperature: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

Stationary Seats:

- 1. TS 109B equip with "A" type stationary seats.
- 2. P and PP type stationary seats are available

- Rotary Ring (Carbon/SiC/TC)
- Stationary Ring (99%Ceramic/SiC/TC)
- Secondary Seal(PTFE)
- Spring & Other Parts (SUS304/SUS316)

Features of structure:

1. Adopt PTFE, resistant high and super-low temperature or erosion, applied in chemical industry.
2. Applied in various rotating equipments, such as: centrifugal agitators and agitator crushers.
3. Double directions mechanical driven, minimize the shaft and sleeve.
4. Multi-spring and balance; comply with API 610 standard.

Seal size (inches)	d	d ₀	d ₃	d ₄	d ₆	d ₇	l ₁	l ₃	l ₄
0.625	12.7	15.88	30.7	34	13.4	25.40	27	7.95	4.8
0.750	15.9	19.05	34.0	37	16.6	31.75	30	10.3	4.8
0.875	19.1	22.23	37.2	40	19.7	34.93	32	10.3	6.4
1.000	22.2	25.40	40.3	43	22.9	38.10	33	10.3	6.4
1.125	25.4	28.58	43.5	46	26.1	41.28	35	11.1	7.9
1.250	28.6	31.75	48.3	51	29.3	44.45	35	11.1	7.9
1.375	28.6	34.93	51.5	54	29.3	44.45	37	11.1	8.7
1.500	31.8	38.10	54.6	58	32.4	47.63	37	11.1	8.7
1.625	34.9	41.28	61.0	64	35.6	50.80	45	11.1	8.7
1.750	38.1	44.45	64.2	67	39.8	53.98	45	11.1	9.5
1.875	41.3	47.63	67.3	70	42.4	60.33	45	12.7	9.5
2.000	44.5	50.80	70.5	73	45.5	63.50	45	12.7	9.5
2.125	47.6	53.98	76.9	80	48.7	66.68	52	12.7	11.1
2.250	50.8	57.15	80.0	83	51.9	69.86	52	12.7	11.1
2.375	54.0	60.33	83.2	86	55.0	76.20	52	14.3	11.1
2.500	57.2	63.50	86.4	89	58.2	79.38	52	14.3	11.1
2.625	60.3	66.68	89.6	92	61.4	82.55	52	14.3	11.1
2.750	63.5	69.85	92.7	96	64.6	85.73	52	14.3	11.1
2.875	66.7	73.03	95.9	99	67.7	85.73	52	14.3	11.1
3.000	69.9	76.20	97.5	100	70.9	88.90	52	15.9	11.1
3.125	73.0	79.38	100.7	104	74.1	95.25	52	15.9	11.1
3.250	76.2	82.55	105.4	108	77.3	98.43	52	15.9	14.3
3.375	79.4	85.73	108.6	111	80.5	101.60	52	19.8	14.3
3.500	82.6	88.90	111.8	115	83.6	104.78	52	19.8	14.3
3.625	85.7	92.08	115.0	118	86.8	107.95	52	19.8	14.3
3.750	88.9	95.25	118.1	121	90.0	111.13	52	19.8	14.3
3.875	92.1	98.43	121.3	124	93.1	114.30	52	19.8	14.3
4.000	95.3	101.60	124.5	127	96.3	117.48	52	19.8	14.3
4.125	98.4	104.78	127.7	131	99.5	120.65	52	19.8	14.3
4.250	101.6	107.95	130.8	134	102.7	123.83	52	19.8	14.3
4.375	104.8	111.13	134.0	137	106.3	130.18	52	19.8	14.3
4.500	108.0	114.30	137.2	140	109.5	133.35	52	19.8	14.3
4.625	108.0	117.48	149.9	153	109.5	133.35	64	19.8	15.9
4.750	111.1	120.65	153.1	156	112.7	136.35	64	19.8	15.9
4.875	114.3	123.83	156.2	159	115.9	139.70	64	19.8	15.9
5.000	117.5	127.00	159.4	165	119.0	142.88	64	19.8	15.9
5.125	120.7	130.18	162.6	168	122.2	146.05	64	19.8	15.9
5.250	123.8	133.35	165.8	172	125.4	149.23	64	19.8	15.9
5.375	127.0	136.53	168.9	175	128.6	152.40	64	19.8	15.9
5.500	130.2	139.70	172.1	178	131.7	155.58	64	19.8	15.9
5.625	133.4	142.88	175.3	181	134.9	158.75	64	19.8	15.9
5.750	136.5	146.05	178.5	184	138.1	161.93	64	19.8	15.9
5.875	139.7	149.23	181.6	187	141.3	165.10	64	19.8	15.9
6.000	142.9	152.40	184.8	191	\	\	64	\	15.9