



TS 109

Operating Limits

Pressure: $\leq 1.7\text{MPa}$

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

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

Stationary Seats:

1. TS 109 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 unbalance; comply with API 610 standard.

Seal size d(inches)	d ₃	d ₄	d ₆	d ₇	l ₁	l ₃
0.500	26.7	29	13.4	25.40	20.6	7.95
0.625	30.7	34	16.6	31.75	19.0	10.3
0.750	34.0	37	19.7	34.93	22.2	10.3
0.875	37.2	40	22.9	38.10	23.8	10.3
1.000	40.3	43	26.1	41.28	25.4	11.1
1.125	43.5	46	29.4	44.45	27.0	11.1
1.250	48.3	51	32.4	47.63	27.0	11.1
1.375	51.5	54	35.6	50.80	28.6	11.1
1.500	54.6	58	38.8	53.98	28.6	11.1
1.625	61.0	64	42.4	60.33	35.0	12.7
1.750	64.2	67	45.5	63.50	35.0	12.7
1.875	67.3	70	48.7	66.68	35.0	12.7
2.000	70.5	73	51.9	69.85	35.0	12.7
2.125	76.9	80	55.0	76.20	43.0	14.3
2.250	80.0	83	58.2	79.38	43.0	14.3
2.375	83.2	86	61.4	82.55	43.0	14.3
2.500	86.4	89	64.6	85.73	43.0	14.6
2.625	89.6	92	67.7	85.73	43.0	15.9
2.750	92.7	96	70.9	88.90	43.0	15.9
2.875	95.9	99	74.1	85.25	43.0	15.9
3.000	97.5	100	77.3	98.43	43.0	15.9
3.125	100.7	104	80.5	101.60	43.0	19.8
3.250	105.4	108	83.6	104.78	43.0	19.8
3.375	108.6	111	86.8	107.95	43.0	19.8
3.500	111.8	115	90.0	111.13	43.0	19.8
3.625	115.0	118	93.1	114.30	43.0	19.8
3.750	118.1	121	96.3	117.48	43.0	19.8
3.875	121.3	124	99.5	120.65	43.0	19.8
4.000	124.5	127	102.7	123.83	43.0	19.8
4.125	127.7	131	106.3	130.18	43.0	19.8
4.250	130.8	134	109.5	133.35	43.0	19.8
4.375	134.0	137	112.7	136.53	43.0	19.8
4.500	137.2	140	115.9	139.70	43.0	19.8
4.625	149.9	153	119.0	142.88	51.0	19.8
4.750	153.1	156	122.2	146.05	51.0	19.8
4.875	156.2	159	125.4	149.23	51.0	19.8
5.000	159.4	165	128.6	152.40	51.0	19.8
5.125	162.6	168	131.7	155.58	51.0	19.8
5.250	165.8	172	134.9	158.75	51.0	19.8
5.375	168.9	175	138.1	161.93	51.0	19.8
5.500	172.1	178	141.3	165.10	51.0	19.8
5.625	175.3	181	\	\	51.0	\
5.750	178.5	184	\	\	51.0	\
5.875	181.6	187	\	\	51.0	\
6.000	184.8	191	\	\	51.0	\