



sterling range

www.first4seals.com



single spring

mechanical seal range

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TYPE 294, 294S, 294B & 294BS MECHANICAL SEALS

Types 294 & 294S are multi-spring wedge or 'O' ring unbalanced seals, dimensionally suitable for USA installations and commonly used in arduous applications such as chemical process. Types 294B & 294BS are balanced versions, predominantly used for higher duty.

All seals are grub screwed to the shaft and generally coupled with a standard V style stationary seat.



Benefits

- Stable – Robust design with multi-spring face loading
- High performance – Balanced versions for higher duties
- Corrosive media capability – PTFE Wedge face suitable for chemicals
- Bi-directional – Grub screwed drive on shaft

All metal parts in Stainless Steel as standard

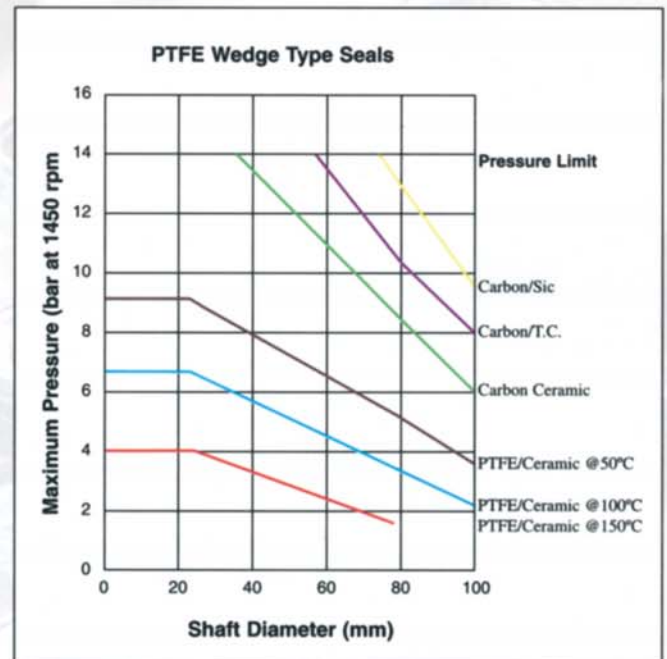
Service Capability

- Maximum Speed – 25m/sec*
- Maximum Pressure – Types 294/294S – 13 bar*
Types 294B/294BS – 20 bar*
- Temperature – -100°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



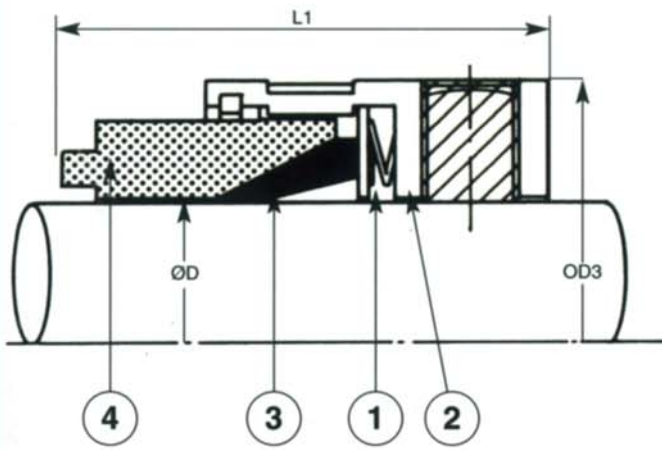
For balanced versions multiply by factor 1.4

Materials

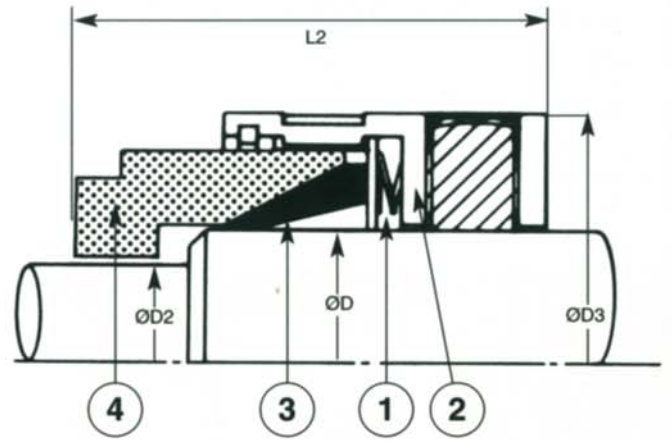
- Rotary Face (4) – Carbon
- Stationary Face – Dependant on application
- Spring (1) – 316 Stainless Steel
- Metal Parts (2) – 316 Stainless Steel
- Elastomers (3) – PTFE, Nitrile, EP, Viton

OTHER MATERIALS AVAILABLE TO SPECIAL ORDER

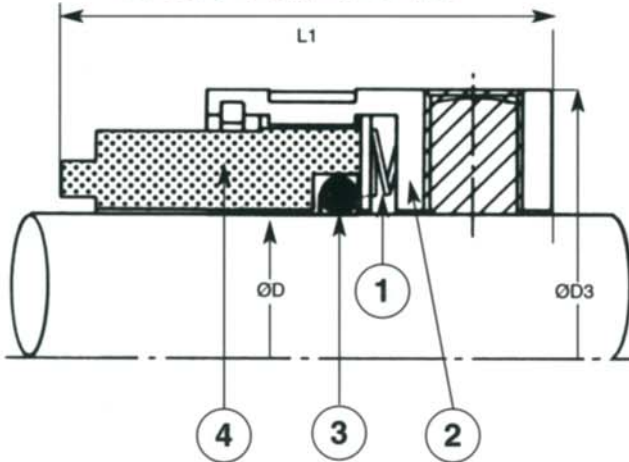
SEAL TYPE 294



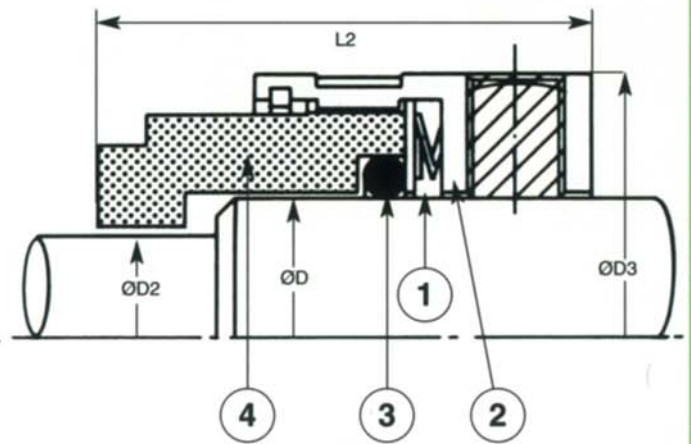
SEAL TYPE 294B



SEAL TYPE 294S



SEAL TYPE 294BS



Imperial Shaft Size D	Size Code	D2 mm	D3 mm	L1 mm	L2 mm
0.750	0191	15.80	30.20	23.80	31.70
0.875	0222	19.10	33.40	23.80	31.70
1.000	0254	22.20	37.50	25.40	33.30
1.125	0286	25.40	40.70	25.40	34.90
1.250	0317	28.60	43.90	25.40	34.90
1.375	0349	28.60	49.30	34.90	42.80
1.500	0381	31.70	49.30	28.60	36.40
1.625	0412	34.90	57.20	29.40	44.40
1.750	0444	38.10	58.80	34.90	44.40
1.875	0476	41.20	63.50	34.90	44.40
2.000	0508	44.40	66.70	34.90	44.40
2.125	0539	47.60	71.50	42.80	52.30
2.250	0571	50.80	72.30	34.90	44.40
2.375	0603	53.90	76.20	42.80	52.30
2.500	0635	57.10	79.40	34.90	44.40
2.625	0666	60.30	82.60	42.80	52.30
2.750	0698	63.50	85.70	42.80	52.30
2.875	0730	66.60	88.90	42.80	52.30
3.000	0762	69.80	92.10	42.80	52.30
3.125	0794	73.00	95.30	42.80	52.30
3.250	0826	76.20	98.40	42.80	52.30
3.375	0857	79.30	101.60	42.80	52.30
3.500	0889	82.50	104.80	42.80	52.30
3.625	0921	85.70	108.00	42.80	52.30
3.750	0953	88.90	111.10	42.80	52.30
3.875	0984	92.00	114.30	42.80	52.30
4.000	1016	95.20	117.50	42.80	52.30