



sterling range

www.first4seals.com



single spring

mechanical seal range

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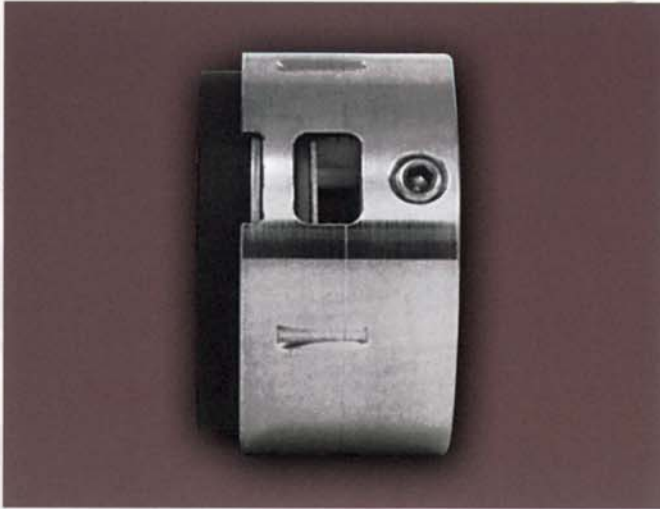
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TYPE 259, 259S, 259B & 259BS MECHANICAL SEALS

Types 259 & 259BS are multi-spring wedge or 'O' ring unbalanced seals, available only in metric sizes and commonly used in arduous applications such as chemical process. Types 259B & 259BS are balanced versions, predominantly used for higher duty.

All seals are grub screwed to the shaft and generally coupled with DIN long or DIN short stationary seats.



Benefits

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

All metal parts in Stainless Steel as standard

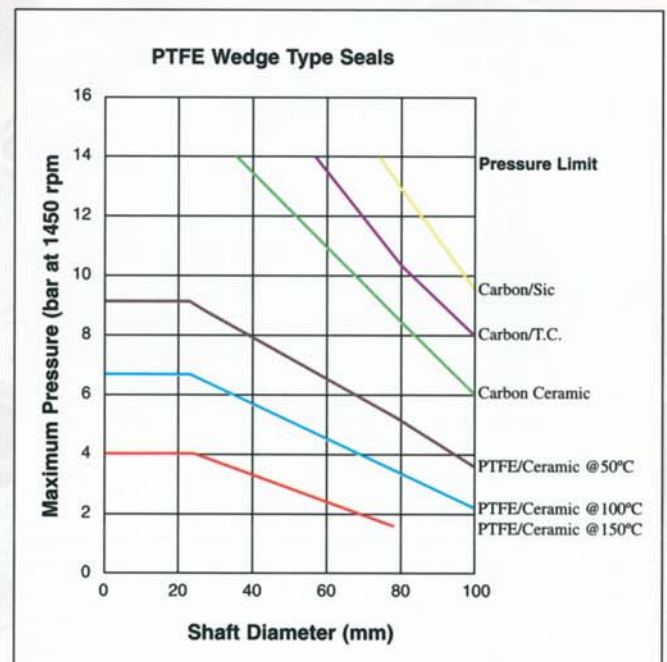
Service Capability

- Maximum Speed – 25m/sec*
- Maximum Pressure – Types 259/259S – 13 bar*
Types 259B/259BS – 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



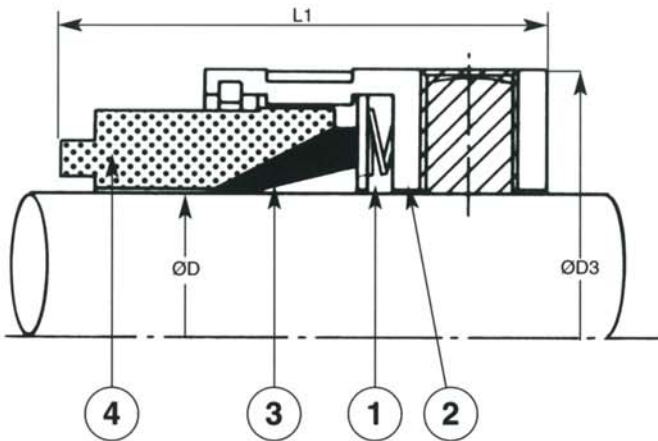
For balanced versions multiply by factor 1.4

Materials

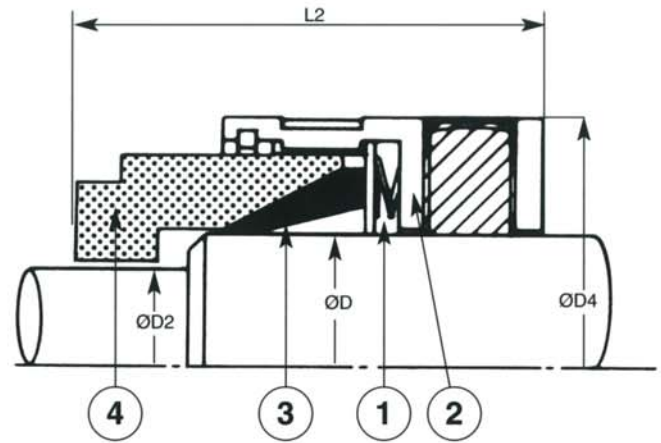
- Rotary Face (4) – Carbon
- Stationary Face – Dependant on application
- Spring (1) – 316 Stainless Steel
- Metal Parts (2) – 316 Stainless Steel
- Elastomers (3) – PTFE, Nitrile, EP, Viton

OTHER MATERIALS AVAILABLE TO SPECIAL ORDER

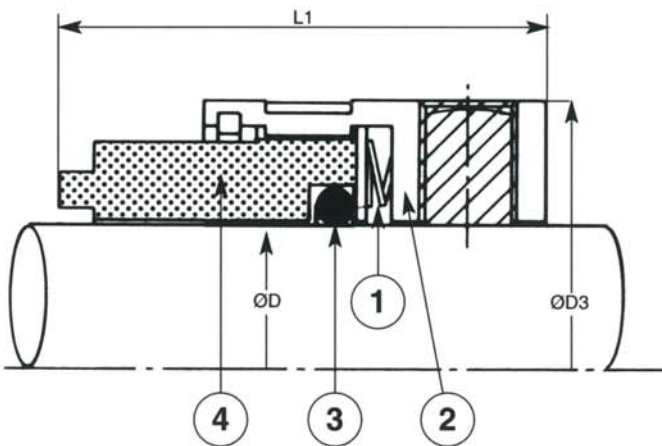
SEAL TYPE 259



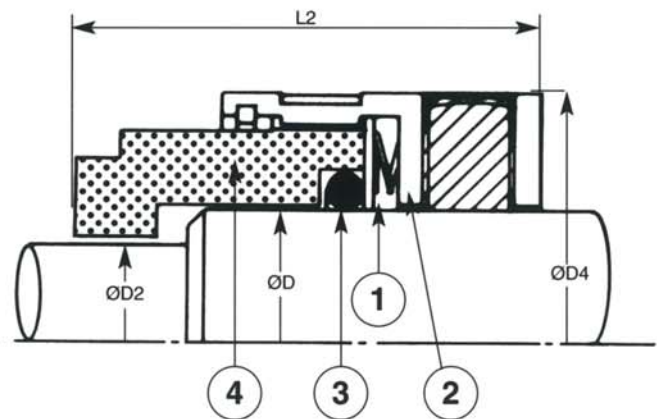
SEAL TYPE 259B



SEAL TYPE 259S



SEAL TYPE 259BS



TYPE 259/259S

Metric Shaft Size D	Size Code	D3	L1
16	0160	26.00	23.00
18	0180	32.20	24.00
20	0200	34.20	24.00
22	0220	36.50	24.00
24	0240	38.60	26.70
25	0250	40.00	27.00
28	0280	43.00	30.00
30	0300	45.00	30.50
32	0320	47.10	30.50
33	0330	48.20	30.50
35	0350	50.00	30.50
38	0380	54.00	32.00
40	0400	56.00	32.00
43	0430	59.00	32.00
45	0450	61.00	32.00
48	0480	64.00	32.00
50	0500	66.30	34.00
53	0530	68.70	34.00
55	0550	70.80	34.00
58	0580	78.00	39.00
60	0600	79.80	39.00
63	0630	82.80	39.00
65	0650	85.50	39.00
68	0680	87.80	39.00
70	0700	90.00	45.50
75	0750	95.00	45.50
80	0800	103.80	45.00
85	0850	109.10	45.00
90	0900	113.80	50.00
95	0950	118.50	50.00
100	1000	123.50	50.00

TYPE 259B/259BS

Metric Shaft Size D	Size Code	D2	D4	L2
18	0180	14.00	32.20	30.50
20	0200	16.00	34.20	30.50
22	0220	18.00	36.50	31.50
24	0240	20.00	38.60	31.50
28	0280	24.00	43.00	34.20
30	0300	25.00	45.00	34.50
33	0330	28.00	48.20	37.50
35	0350	30.00	50.00	38.00
38	0380	33.00	54.00	38.00
40	0400	35.00	56.00	38.00
43	0430	38.00	59.00	39.50
45	0450	40.00	61.00	39.50
48	0480	43.00	64.00	39.50
50	0500	45.00	66.30	39.50
53	0530	48.00	68.70	39.50
55	0550	50.00	70.80	44.00
58	0580	53.00	78.00	44.00
60	0600	55.00	79.80	44.00
63	0630	58.00	82.80	49.00
65	0650	60.00	85.50	49.00
68	0680	63.00	87.80	49.00
70	0700	65.00	90.00	49.00
75	0750	70.00	95.00	55.50
80	0800	75.00	103.80	55.50
85	0850	80.00	109.10	55.00
90	0900	85.00	113.80	60.00
95	0950	90.00	118.50	60.00
100	1000	95.00	123.50	60.00