



**sterling range**

[www.first4seals.com](http://www.first4seals.com)



**single spring**

mechanical seal range

Copyright © 2005 first4seals plc  
DOC / F4S 5018 12/2005

Reference Issue • L - UK - F4SSPRING - 01

first4seals™ is a Trademark of first4seals plc.

first4seals plc recognise all trademarks and trademark names as the property of the owner.

first4seals plc, mount street, bradford, west yorkshire. bd3 9sn united kingdom

Tel: +44 (0) 1274 720775 Fax: +44 (0) 1274 729022

email: [seals@first4seals.com](mailto:seals@first4seals.com) - web: [www.first4seals.com](http://www.first4seals.com)

## TYPE 524 MECHANICAL SEALS

Type 524 are robust rubber bellows single spring seals for use across a wide range of industrial duties. The bellows and spring are enclosed in a stainless steel housing. Boot mounted or 'O' ring short or long DIN stationary seats are used to provide L1K working lengths.



### Benefits

- High Performance – Robust construction
- Self Adjusting – Bellows adjustment for wear
- Non clogging spring – Design prevents product build-up
- Bi-directional – Positive drive from bellows

All metal parts in Stainless Steel as standard

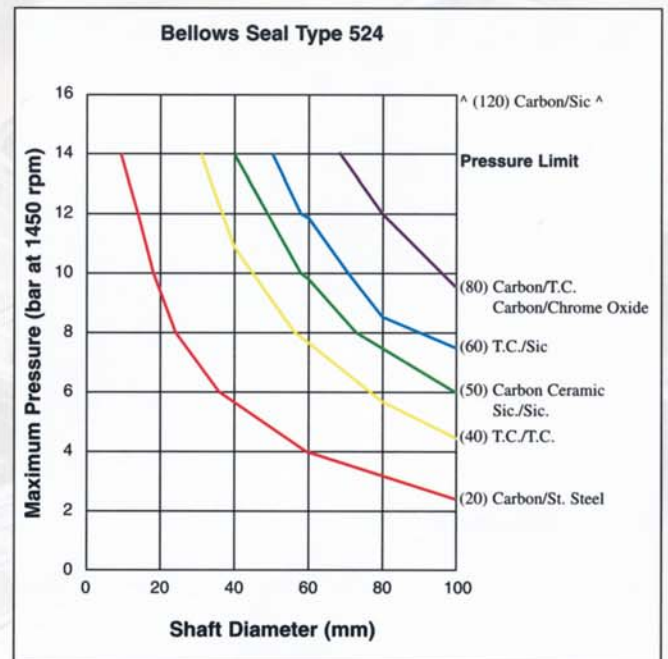
### Service Capability

- Maximum Speed – 18m/sec\*
- Maximum Pressure – 12 bar\*
- Temperature – -40°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

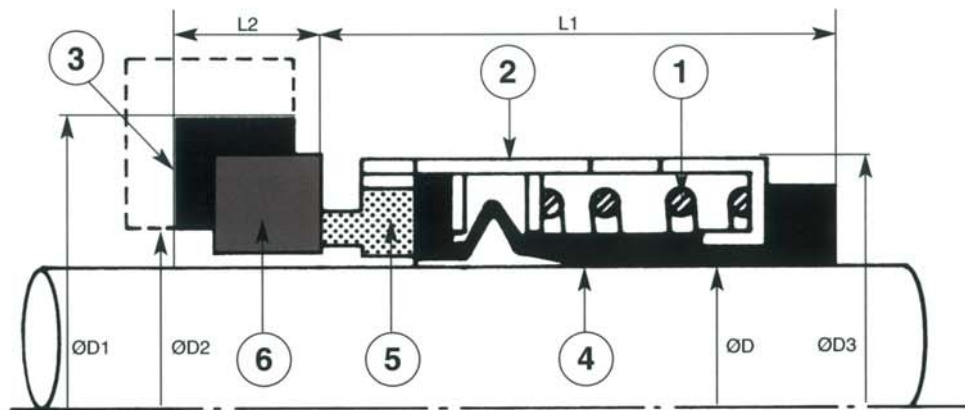


### Materials

- Rotary Face (5) – Carbon, Silicon Carbide, Tungsten Carbide
- Stationary Face (6) – Ceramic, Silicon Carbide, Tungsten Carbide
- Spring (1) – 304 Stainless Steel
- Metal Parts (2) – 304 Stainless Steel
- Elastomers (3, 4) – Nitrile, EP, Viton

**OTHER MATERIALS AVAILABLE TO SPECIAL ORDER**

## SEAL TYPE 524



Metric Shaft Size D	Size Code	D1 mm	D2 mm	D3 mm	L1 mm	L2 mm
14	0140	25.00	21.00	24.00	26.40	8.60
16	0160	27.00	23.00	26.00	26.40	8.60
18	0180	33.00	27.00	32.00	27.50	10.00
20	0200	35.00	29.00	34.00	27.50	10.00
22	0220	37.00	31.00	36.00	27.50	10.00
24	0240	39.00	33.00	38.00	30.00	10.00
25	0250	40.00	34.00	39.00	30.00	10.00
28	0280	43.00	37.00	42.00	32.50	10.00
30	0300	45.00	39.00	44.00	32.50	10.00
32	0320	48.00	42.00	46.00	32.50	10.00
33	0330	48.00	42.00	47.00	32.50	10.00
35	0350	50.00	44.00	49.00	32.50	10.00
38	0380	56.00	49.00	54.00	34.00	11.00
40	0400	58.00	51.00	56.00	34.00	11.00
43	0430	61.00	54.00	59.00	34.00	11.00
45	0450	63.00	56.00	61.00	34.00	11.00
48	0480	66.00	59.00	64.00	34.00	11.00
50	0500	70.00	62.00	66.00	34.50	13.00
53	0530	73.00	65.00	69.00	34.50	13.00
55	0550	75.00	67.00	71.00	34.50	13.00
58	0580	78.00	70.00	78.00	39.50	13.00
60	0600	80.00	72.00	80.00	39.50	13.00
63	0630	83.00	75.00	83.00	39.50	13.00
65	0650	85.00	77.00	85.00	39.50	13.00
68	0680	90.00	81.00	88.00	37.20	15.30
70	0700	92.00	83.00	89.00	44.70	15.30
75	0750	97.00	88.00	96.00	44.70	15.30
80	0800	105.00	95.00	104.00	44.30	15.70
85	0850	110.00	100.00	108.00	44.30	15.70
90	0900	115.00	105.00	114.00	49.30	15.70
95	0950	120.00	110.00	118.00	49.30	15.70
100	1000	125.00	115.00	124.00	49.30	15.70