



sterling range

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 - web: www.first4seals.com

TYPES 211A & 212A MECHANICAL SEALS

Types 211A and 212A Seals are part of a family of Diaphragm Rubber Bellows Seals and are interchangeable with many other makes including John Crane Types 1, 2 and 21 and Sealol 043 CU Long and Short. The Bellows rotates with the shaft and can accommodate some end float, eccentricity and misalignment.



Benefits

- Positive drive – Reduces Bellows Stress
- Self adjusting – Bellows takes care of wear and shaft float
- Long life – Due to minimum face loading
- Non clogging – Due to open single spring design
- Non fretting – No moving O-rings
- Bi-directional – Due to positive drive

All metal parts in Stainless Steel as standard

Service Capability

- Maximum Speed – 15 m/sec*
- Maximum Pressure – 14 bar*
- Temperature – -40° 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

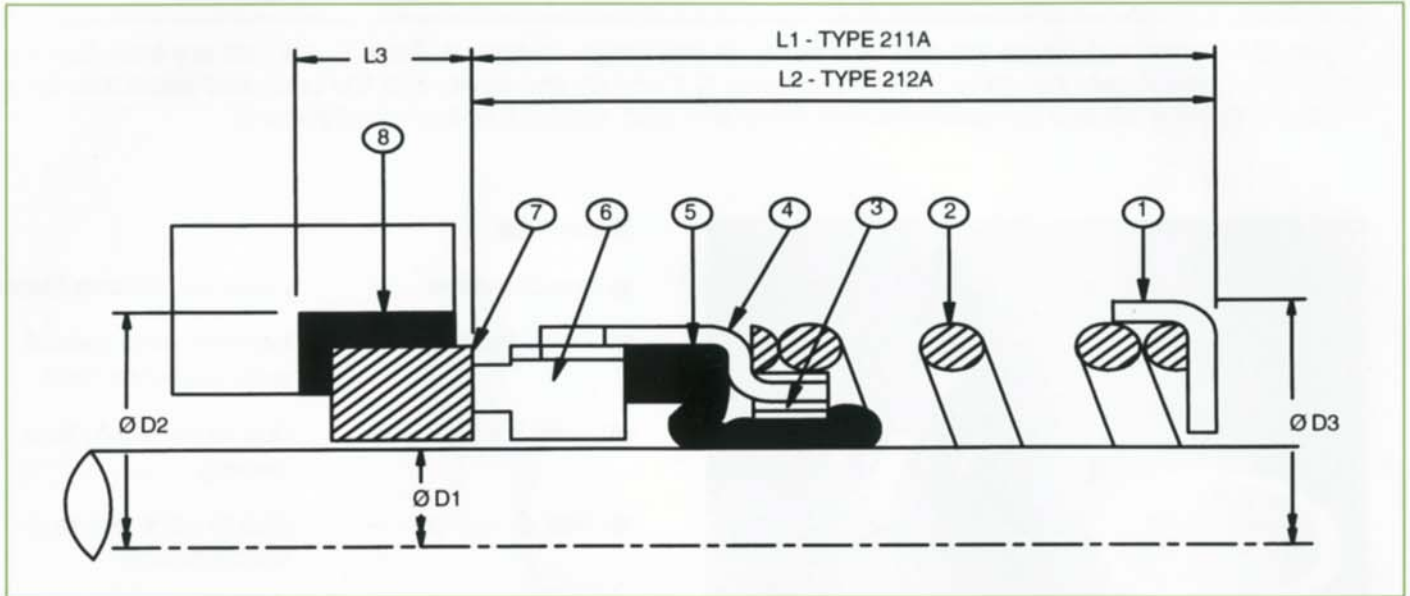


Materials

- Rotary Face (6) – Carbon, reaction bonded Silicon Carbide
- Stationary Face (7) – Ceramic, reaction bonded Silicon Carbide
- Spring (2) – 304 Stainless Steel
- Metal Parts (1, 3, 4) – 316 Stainless Steel
- Elastomers (5, 8) – Nitrile, Viton, E.P.

OTHER MATERIALS AVAILABLE TO SPECIAL ORDER

SEAL TYPE 211A and 212A



D1 INCH	ORDER CODE	D2 mm	D3 mm	L1 mm	L2 mm	L3 mm
0.500	0127	25.40	23.90	31.75	20.62	7.93
0.625	0158	31.75	26.70	34.93	22.22	10.28
0.750	0191	34.93	31.10	34.93	22.22	10.28
0.875	0222	38.10	33.40	36.50	23.80	10.28
1.000	0254	41.28	43.20	41.28	25.40	11.10
1.125	0286	44.44	46.30	42.85	26.97	11.10
1.250	0317	47.63	49.40	42.85	26.97	11.10
1.375	0349	50.80	52.60	42.85	28.58	11.10
1.500	0381	53.98	55.80	42.85	28.58	11.10
1.625	0412	60.33	62.20	50.80	34.93	12.70
1.750	0444	63.50	66.00	50.80	34.93	12.70
1.875	0476	66.68	66.60	53.98	38.10	12.70
2.000	0508	69.85	73.00	53.98	38.10	12.70
2.125	0539	76.20	73.30	60.32	42.88	14.28
2.250	0571	79.38	78.40	60.32	42.88	14.28
2.375	0603	82.55	82.00	63.50	46.02	14.28
2.500	0635	85.73	84.90	63.50	46.02	14.28
2.625	0666	85.73	88.40	69.85	49.20	15.90
2.750	0698	88.90	92.60	69.85	49.20	15.90
2.875	0730	95.25	94.85	73.03	52.37	15.90
3.000	0762	98.43	102.70	73.03	52.37	15.90