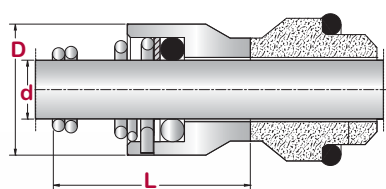
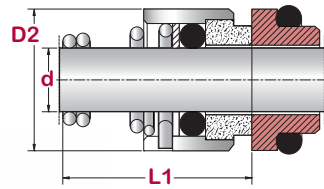


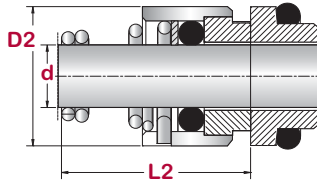
ES390/320/370/378 Single Coil Tapered Spring Seals



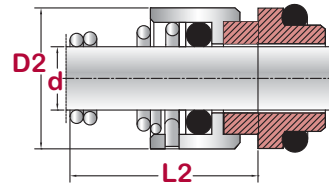
ES390



ES320



ES370



ES378



d	D	D2	L	L1	L2
10	19	20	15.5	16.9	16.5
12	21	22	16.0	17.4	16.5
14	23	24	16.5	17.4	16.5
15	24	25	18.0	17.4	16.5
16	26	26	18.0	19.5	16.5
18	29	31	19.5	20.5	18.0
20	31	34	22.0	22.0	19.0
22	33	36	21.5	23.5	20.5
24	35	38	23.5	25.0	22.0
25	36	39	26.5	26.5	23.5
28	40	42	26.5	26.5	24.5
30	43	44	26.5	25.0	24.5
32	46	46	28.5	28.5	28.0
33	47	47	28.5	28.5	28.0
35	49	49	28.5	28.5	28.0
38	53	54	33.5	32.2	31.0
40	56	56	36.0	34.7	34.0
42	59	58	37.5	37.3	35.0
43	59	59	38.5	37.3	36.0
45	61	61	39.5	39.5	36.5
48	64	64	46.0	44.7	42.0
50	66	66	45.0	45.7	43.0
53	69	69	47.0	49.0	43.0
55	71	71	49.0	49.0	47.0
58	76	78	55.0	52.0	50.0
60	78	79	55.0	53.0	51.0
65	84	85	55.0	54.3	52.0
68	88	88	55.0	55.3	52.7
70	90	90	57.0	56.3	54.0
75	98	98	62.0	56.3	54.0
80	100	103	61.8	59.3	58.0



Features and Benefits:

- Rugged simplicity
- Tapered spring "grabs" shaft and drives seal
- Uni-directional – Seal is dependent on rotation of shaft (please specify clockwise or counterclockwise rotation)
- Common European OEM pump seal
- Metal shrouded and protected seal faces
- Spring tabbed into rotary head
- Multiple face and elastomer choices
- Various seats available
- Very cost effective metric alternative



Standard Materials of Construction:

• Faces:

- ES320 Carbon Graphite (Resin Impregnated)
- ES370 Tungsten Carbide
- ES378 Silicon Carbide
- ES390 Hardened Stainless

• Elastomers:

Buna, Viton®, Aflas®, Neoprene, EPDM,

• Metallurgy:

- 304, 316



Operating Limits:

- Pressure: 145 psi / 10 Bar
- Temperature: - 20 to 180°C - 4°F to 350°F

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