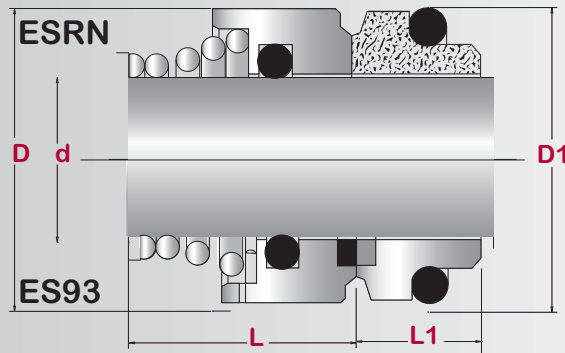


ESRN AND ES93

Tapered Spring Component Seal



Features and Benefits:

- Tapered spring transmits torque of shaft to seal
- Uni-directional – seal is dependent on rotation of shaft (please specify clockwise or counterclockwise rotation)
- Reliable Oring pusher secondary seal design
- Rugged machined heads
- Unbalanced

Standard Materials of Construction:

Faces:

- ESRN (mached and lapped rotary face) - Stainless vs Carbon Stationary
- ES93 (Inserted seal faces) - Carbon, Silicon Carbide, Tungsten Carbide

Elastomers:

- Buna, Viton®, Aflas®, Neoprene, EPDM

Metallurgy:

- 304

Operating Limits:

- Pressure: to 145 PSI (10 Bar).
- Temperature: -40°F to +392°F. (- 40 to 200°C)

d	D	D1	L	L1
8	16	17.1	15	5.5
10	20	21	15	7.0
12	22	23	18	7.0
14	24	25	22	7.0
15	24	26.9	22	7.0
16	26	27	23	7.0
17	26	26.9	23	7.0
18	32	33	24	10.0
19	32	30.9	25	8.0
20	34	35	25	10.0
22	36	37	25	10.0
24	38	39	27	10.0
25	39	40	27	10.0
26	39	38.2	27	8.5
28	42	43	29	10.0
30	44	45	30	10.0
32	46	48	30	10.0
33	47	48	39	10.0
35	49	50	39	10.0
38	54	56	39	13.0
40	56	58	39	13.0
42	57	60.5	39	11.5
43	57	61	39	13.0
45	61	63	41	13.0
48	64	66	41	13.0
50	66	70	45	14.0
53	69	73	45	14.0
55	71	75	47	14.0
58	76	78	47	14.0
60	80	80	49	14.0
63	81	83	49	14.0
65	85	85	51	14.0
68	87	90	51	16.0
70	90	92	51	16.0
75	99	97	57	16.0
80	104	105	59	18.0
85	109	110	59	18.0
90	114	115	62	18.0
95	119	120	62	18.0
100	124	125	75	18.0

Apex
sealing, inc.

Apex Sealing Inc.
164 B Yankee Park Rd.
Fairfax, VT 05454
888.730.2739
apexsealing.com