

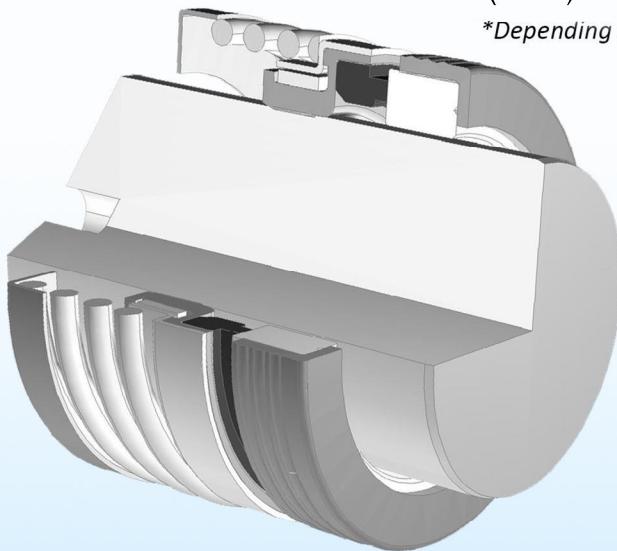
Advantage Seal Type 21



The versatile, self-aligning choice for services:

- Up to 5,000 sf/m *
- Up to 250 psig (17 Bar) *
- From - 40°F (-40°C) to 400°F (204°C) *

*Depending on seal size and material selection



Why choose the Advantage Seal Type 21?



Solid Hex Drive



Crimped Head



Rotary Seal



Stationary Seal

The Solid Hex Drive Advantage

- Standard in every Advantage Seal Type 21
- Locking, Positive Engagement
- Drive Band cannot be installed improperly
- Eliminates damage to bellows
- Eliminates drive failure
- Competitor's stamped designs:
 - Offer less engagement
 - Sharp stampings can damage the seal bellows
 - Can be installed upside down at the seal manufacturer
- Competitor's tang and notch designs:
 - Offer loose engagement
 - Fewer points of contact with the seal outer shell
 - May lead to broken tangs and seal bellows damage

Crimped Head

- Greatly simplifies installation
- No adhesive on seal face
- Prevents penetration of solids into the seal head
- Cushions rotary seal face
- No metal to seal face contact

Single Coil Spring

- Helps prevent clogging

For use with a variety of mating rings

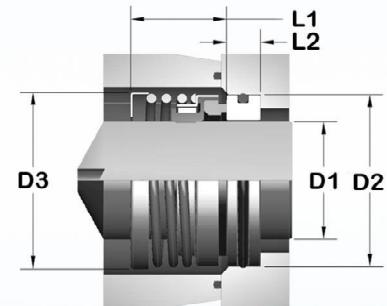
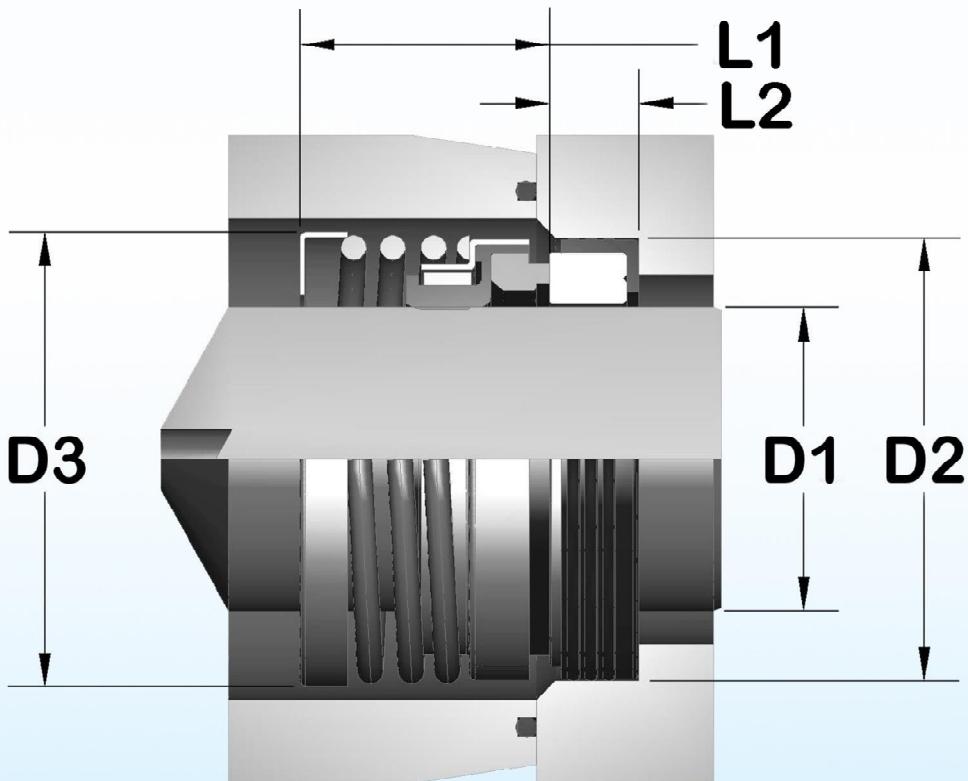
- O-Ring Mount
- Cup Mount
- DIN

Non-Fretting design

Advantage Seal Type 21 replaces:

- John Crane Type 21, Type 2100
- Sealol Type 43 CU Short
- Pac-Seal Type 21
- Pac-Seal Type 21

Typical Type 21 Dimensions



Alternative Stationary Mounting

US Standard				
D1	D2	D3	L1	L2
Inches				
0.500	1.000	0.915	0.812	0.312
0.625	1.250	1.177	0.875	0.406
0.750	1.375	1.304	0.875	0.406
0.875	1.500	1.463	0.937	0.406
1.000	1.625	1.588	1.000	0.437
1.125	1.750	1.838	1.062	0.437
1.250	1.875	1.838	1.062	0.437
1.375	2.000	1.963	1.125	0.437
1.500	2.125	2.154	1.125	0.437
1.625	2.375	2.435	1.375	0.500
1.750	2.500	2.435	1.375	0.500
1.875	2.625	2.560	1.500	0.500
2.000	2.750	2.810	1.500	0.500
2.125	3.000	2.935	1.687	0.562
2.250	3.125	2.935	1.687	0.562
2.375	3.250	3.034	1.812	0.562
2.500	3.375	3.437	1.812	0.562
2.625	3.375	3.559	1.937	0.625
2.750	3.500	3.559	1.937	0.625
2.875	3.750	3.684	2.062	0.625
3.000	3.875	3.934	2.062	0.625

Tolerances and Finishes

- Equipment Shaft ± 0.002 (0.05mm)
- Seat Bore ± 0.002 (0.05mm)
- Maximum End-Play 0.005 (0.13mm)
- Shaft / Sleeve surface finish 35 Ra to 105 Ra

Metric DIN Standard				
D1	D2	D3	L1	L2
Millimeters				
18.00	32.99	33.12	26.59	10.49
20.00	34.98	33.12	26.59	10.49
22.00	37.01	33.12	26.59	10.49
24.00	38.99	40.34	28.98	10.49
25.00	40.01	40.34	28.98	10.49
28.00	42.98	46.69	31.75	10.49
30.00	45.01	46.69	31.75	10.49
32.00	48.01	46.69	31.75	10.49
33.00	48.01	46.69	31.75	10.49
35.00	50.01	49.86	31.75	10.49
38.00	56.01	54.71	33.32	11.51
40.00	57.99	61.85	33.32	11.51
43.00	61.01	61.85	33.32	11.51
45.00	62.99	61.85	33.32	11.51
48.00	65.99	65.02	33.32	11.51
50.00	70.00	71.37	35.71	13.49
53.00	73.00	74.55	35.71	13.49
55.00	74.98	74.55	35.71	13.49
58.00	78.00	74.55	38.48	13.49
60.00	80.01	77.06	38.48	13.49
63.00	83.01	87.30	38.48	13.49
65.00	84.99	90.40	38.48	13.49
68.00	89.99	90.40	38.48	15.49
70.00	92.00	90.40	45.49	15.49
75.00	96.82	93.57	45.49	15.49
80.00	105.13	99.92	45.49	15.49