

4.20 MECHANICAL SEALS - PRODUCT RANGE - BSAI™/DIN BSAI™



KEY FEATURES:

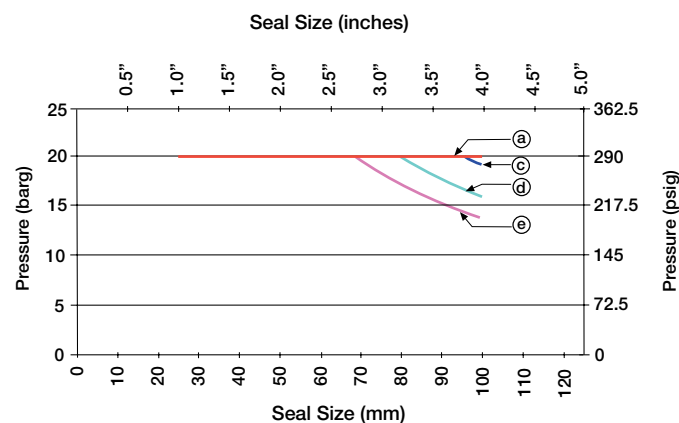
- Single rotary metal bellows component seal
- Hydraulically-balanced seal faces for the product
- Bi-directional rotation
- Short internal working length

SEAL ORIENTATION: Horizontal

OPERATING CONDITIONS:

- Temperature : -20°C to 210°C (-4°F to 410°F)
(Application and Seal Material Dependent)
- Pressure : Vacuum (-28"Hg) to 20 Bar g (290 psig) - OD pressurised only
- Speed : Up to 20 m/s (4000 ft/min)

PRESSURE DERATING CHART:



Graph No. 4-21

For final pressure rating, refer to Page No. 14 - key to graph

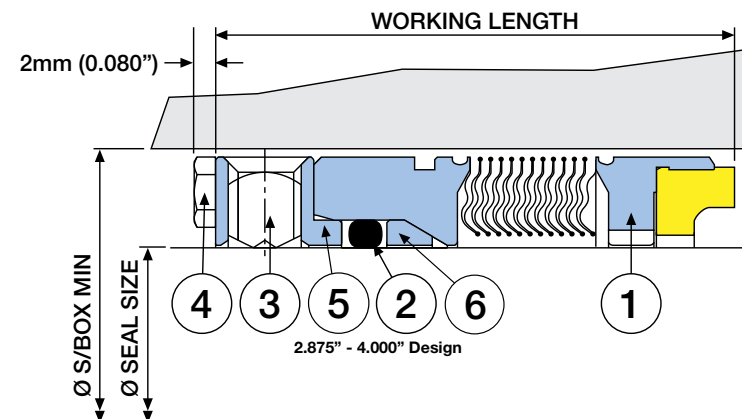


Figure No. 4-49

PART LIST:

Item	Description	Material
1	Rotary Bellows Assembly	316L SS - ALLOY 276 - 316L SS - Carbon/TC/SiC
2	Sealing Ring	Viton® / EPR / Kalrez® / Atlas®
3	Drive Screws	Stainless Steel
4	Rotary Drive Screws	Stainless Steel
5	Clamp Ring	316L Stainless Steel
6	Spacer Ring	316L Stainless Steel

Table No. 4-66

AVAILABLE BELLOWS METALLURGIES

SHS	316L / Alloy 276 / 316L
HHH	Alloy 276 / 276 / 276

APPLICATION AREAS:

- General purpose metal bellows component seal
- Fits 8mm (5/16") cross section seal chambers in smaller sizes

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DIMENSIONAL INFORMATION CHARTS:

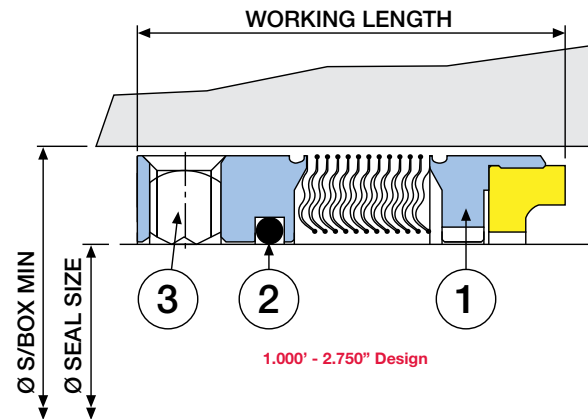


Figure No. 4-50

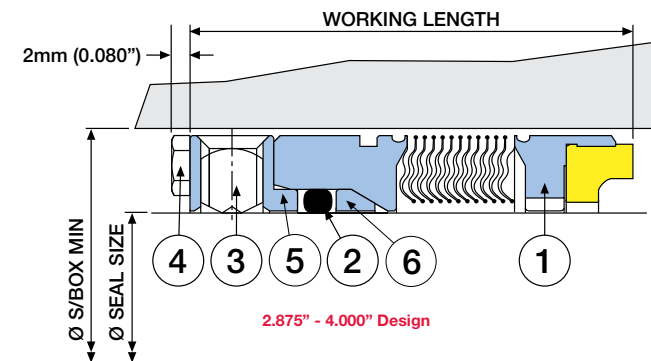


Figure No. 4-51

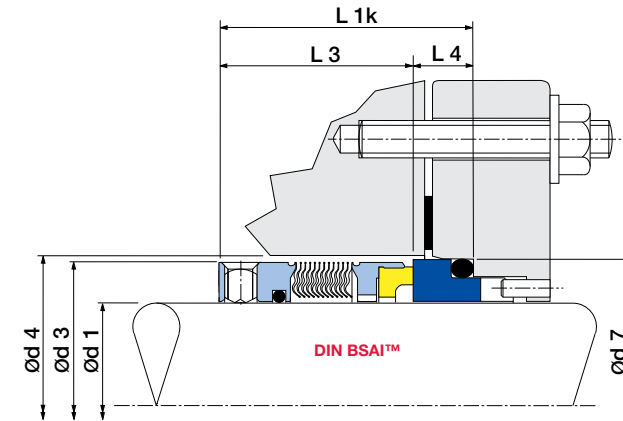


Figure No. 4-52

BSAI™ SIZE CHART (inches):

SEAL SIZE	WORKING LENGTH	S/BOX MIN
1.000	1.250	1.625
1.125	1.250	1.750
1.250	1.312	1.875
1.375	1.437	2.000
1.500	1.437	2.125
1.625	1.437	2.250
1.750	1.437	2.375
1.875	1.500	2.500
2.000	1.500	2.625
2.125	1.500	2.750
2.250	1.562	2.875
2.375	1.562	3.000
2.500	1.562	3.125
2.625	1.625	3.375
2.750	1.625	3.500
2.875	1.875	3.625
3.000	2.000	3.750
3.125	2.000	3.875
3.250	2.000	4.000
3.375	2.000	4.125
3.500	2.000	4.250
3.625	2.000	4.375
3.750	2.000	4.500
3.875	2.000	4.625
4.000	2.000	5.000

Table No. 4-67

DIN BSAI™ SIZE CHART (mm):

Ød1 h6	L3	L1k +/- 0.5	L4	Ød7 H8	Ød3 MAX	Ød4 MIN
24.0	29.9	40.0	10.1	39.0	38.0	40.0
25.0	29.9	40.0	10.1	40.0	39.0	41.0
28.0	32.4	42.5	10.1	43.0	42.0	44.0
30.0	32.4	42.5	10.1	45.0	44.0	46.0
32.0	32.4	42.5	10.1	48.0	46.0	48.0
33.0	32.4	42.5	10.1	48.0	47.0	49.0
35.0	32.4	42.5	10.1	50.0	49.0	51.0
38.0	33.9	45.0	11.1	56.0	54.0	58.0
40.0	33.9	45.0	11.1	58.0	56.0	60.0
43.0	33.9	45.0	11.1	61.0	59.0	63.0
45.0	33.9	45.0	11.1	63.0	61.0	65.0
48.0	33.9	45.0	11.1	66.0	64.0	68.0
50.0	34.4	47.5	13.1	70.0	66.0	70.0
53.0	34.4	47.5	13.1	73.0	69.0	73.0
55.0	34.4	47.5	13.1	75.0	71.0	75.0
58.0	38.9	52.5	13.6	78.0	78.0	83.0
60.0	38.9	52.5	13.6	80.0	80.0	85.0
63.0	38.9	52.5	13.6	83.0	83.0	88.0
65.0	38.9	52.5	13.6	85.0	85.0	90.0
68.0	37.4	52.5	15.1	90.0	88.0	93.0
70.0	44.9	60.0	15.1	92.0	90.0	95.0
75.0	44.9	60.0	15.1	97.0	99.0	104.0
80.0	44.2	60.0	15.8	105.0	104.0	109.0
85.0	44.2	60.0	15.8	110.0	109.0	114.0
90.0	49.2	65.0	15.8	115.0	114.0	119.0
95.0	49.2	65.0	15.8	120.0	119.0	124.0
100.0	49.2	65.0	15.8	125.0	124.0	129.0

Table No. 4-68