

B100 / B800 Single Seals

Standard Mechanical Seals - Pusher Seals

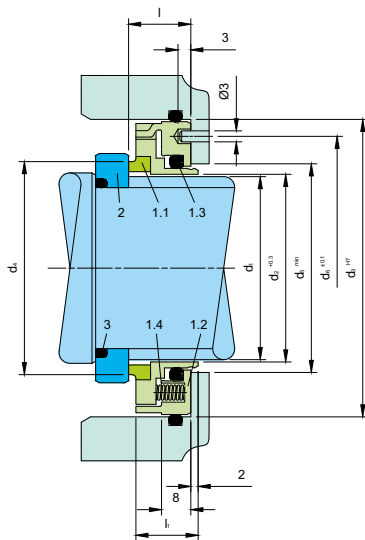


Product Description

1. Single seal configuration
2. Balanced design
3. Independent of direction of rotation
4. Stationary design with multiple springs

Technical Features

1. Compact design
2. Capable of withstanding high pressure
3. O-ring is dynamically loaded to prevent shaft damage.
4. Spring loaded stationary design accommodates shaft misalignments
5. Can handle media with solid content
6. Easy to assemble due to short axial installation length



Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Part no.	Description
1.1	472	Seal face
	473	Seal face housing
1.2	485	Drive collar
1.3		O-ring
1.4	477	Spring
2	475	Rotating seat ¹⁾
3	412.2	O-ring
DIN 24250		

¹⁾ The seat design is chosen according to the specific requirements and conditions of operation.

Typical Industrial Applications

Bearing seal
Lube oils
Process industry
Roller seal
Short axial length installation

Performance Capabilities

Sizes:	d ₁ = Upto 100 mm (Upto 4.000")
Pressure:	p ₁ = 25 bar (363 PSI)
Temperature:	t = -40 °C...+180 °C (-40 °F...+356 °F)
Speed:	= 50 m/s (164 ft/s)

Materials

Seal face:	Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B)
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Dimensional Data

Dimensions in millimeter

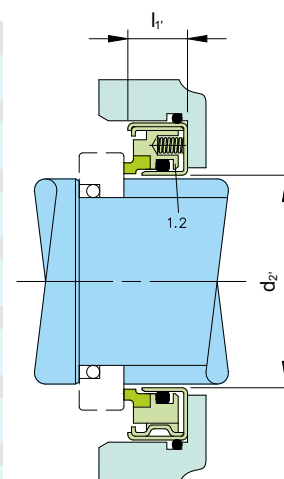
d ₁	d ₂	d ₂ '	d ₃	d ₄	d ₅	d ₆	l	l ₁	l ₁ '
15	16	17	42	22.6	21	34	17	15.0	16
18	19	-	45	25.6	24	37	17	15.0	-
20	21	22	48	27.6	26	40	17	15.0	16
22	23	24	50	29.6	28	42	17	15.0	16
25	26	27	52	32.8	31	44	17	15.0	16
28	29	-	55	35.8	34	47	17	15.0	-
30	31	32	58	37.8	36	50	17	15.0	16
32	33	34	60	39.8	38	52	17	15.0	16
35	36	37	62	42.8	41	54	17	15.0	16
38	39	40	65	45.9	44	57	17	15.0	16
40	41	42	68	47.9	46	60	17	15.0	16
42	43	44	72	49.9	48	64	17	15.0	16
45	46	47	75	52.9	51	67	17	15.0	16
48	49	-	80	55.9	54	72	17	15.0	-
50	51	52	80	58.2	56	72	17	15.0	16
52	53	-	82	60.2	58	74	17	15.0	-
55	56	57	85	63.2	61	77	17	15.0	16
58	59	-	90	66.7	64	82	17	15.0	-
60	61	62	90	68.7	66	82	17	15.0	16
65	66	67	95	73.7	71	87	19	16.5	18
68	69	70	100	76.7	74	92	19	16.5	18
70	71	72	100	78.7	76	92	19	16.5	18
75	76	77	108	83.7	81	100	19	16.5	18
80	81	82	112	88.7	86	104	19	16.5	18
85	86	87	118	93.7	91	110	19	16.5	18
90	91	92	122	99.5	96	114	19	16.5	18
95	96	97	128	104.5	101	120	19	16.5	18
100	101	102	132	109.5	106	124	19	16.5	18

inch size available from size 0.750 to 4.000

Note: Additional technical & dimensional information will be provided on request.

The specifications, drawings, images etc included in this catalogue are intended to be generic and must be interpreted as equivalent or functionally equivalent, more specifically the performance capabilities mentioned in this catalogue is based on optimum values, however the performance of the product is dependent on size, material of construction, media, pressure, temperature, sliding velocity etc and it shall vary from size to size or application to application. Customers are requested to consult with Sealmatic before employing the product from this catalogue for any application.

Design Variations



B800
Dimensions, items and description as B100. Drive collars and housings for item 1.2 are made of deepdrawn stainless steel sheet.

B100Z
Dimensions, Items & descriptions as per B100, but with Wave spring instead of multiple springs