



SINCE 1973

Leak-Proof

MORE THAN
50 YEARS OF
ENGINEERING
INNOVATION

IsoPro™

BEARING ISOLATOR

IsoPro™

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GB-01

NONMAGNETIC



IsoPro™ BEARING ISOLATOR (GB-01 Series)

IsoPro™ Bearing Isolators for Superior Pumping Applications.

At Leak-Proof®, we take pride in delivering exceptional Bearing Isolators designed for a wide range of applications and operations.

Product Features

Our bearing isolators are meticulously designed to prioritize equipment longevity and efficiency. Featuring an innovative labyrinth design, they effectively seal out contaminants, creating a barrier between the external environment and internal lubrication. This engineered labyrinth generates a tortuous path, preventing ingress of contaminants and ensuring robust protection for the shaft, bearings, and overall equipment. Operating on a non-contacting principle, our isolators excel in vibration absorption, float control, minimizing friction and heat generation for smooth and silent operation. With Leak-Proof engineering, you receive superior protection and float control in one comprehensive package.

Versatile Materials

Our bearing isolator come with bronze materials, ensuring robust performance with effective heat control. We also offer options with other metals to meet specific needs of the customer.

In addition to FKM O-rings, we provide a diverse range of O-ring options including FFKM and others standard O-ring material.

Features and Benefits

- ◆ Superior sealing performance ◆ Extended bearing life
- ◆ Reduced maintenance costs ◆ Compatibility with various operating conditions

Application Examples

- ◆ Pumps and pumping systems ◆ Motors and generators
- ◆ Gearboxes and drivetrains ◆ Compressors and turbines
- ◆ Agitators and mixers
- ◆ Other rotating equipment in industries such as manufacturing, oil and gas, mining, and automotive.

Installation & Maintenance Guidelines

- Ensure a smooth installation by cleaning the shaft and housing, applying lubricant, and securing the isolator snugly.
- Regularly inspect for wear or damage, maintaining cleanliness to prevent contamination.
- Monitor lubrication levels and follow replacement recommendations for optimal performance and longevity

Technical Drawings and Diagrams

Technical specifications

Seal Type: Single

Operating Pressure Range: Up to 0.1 bar

Temperature Range: 20°C to 120°C

Shaft Diameter Compatibility: 25 mm to 150 mm

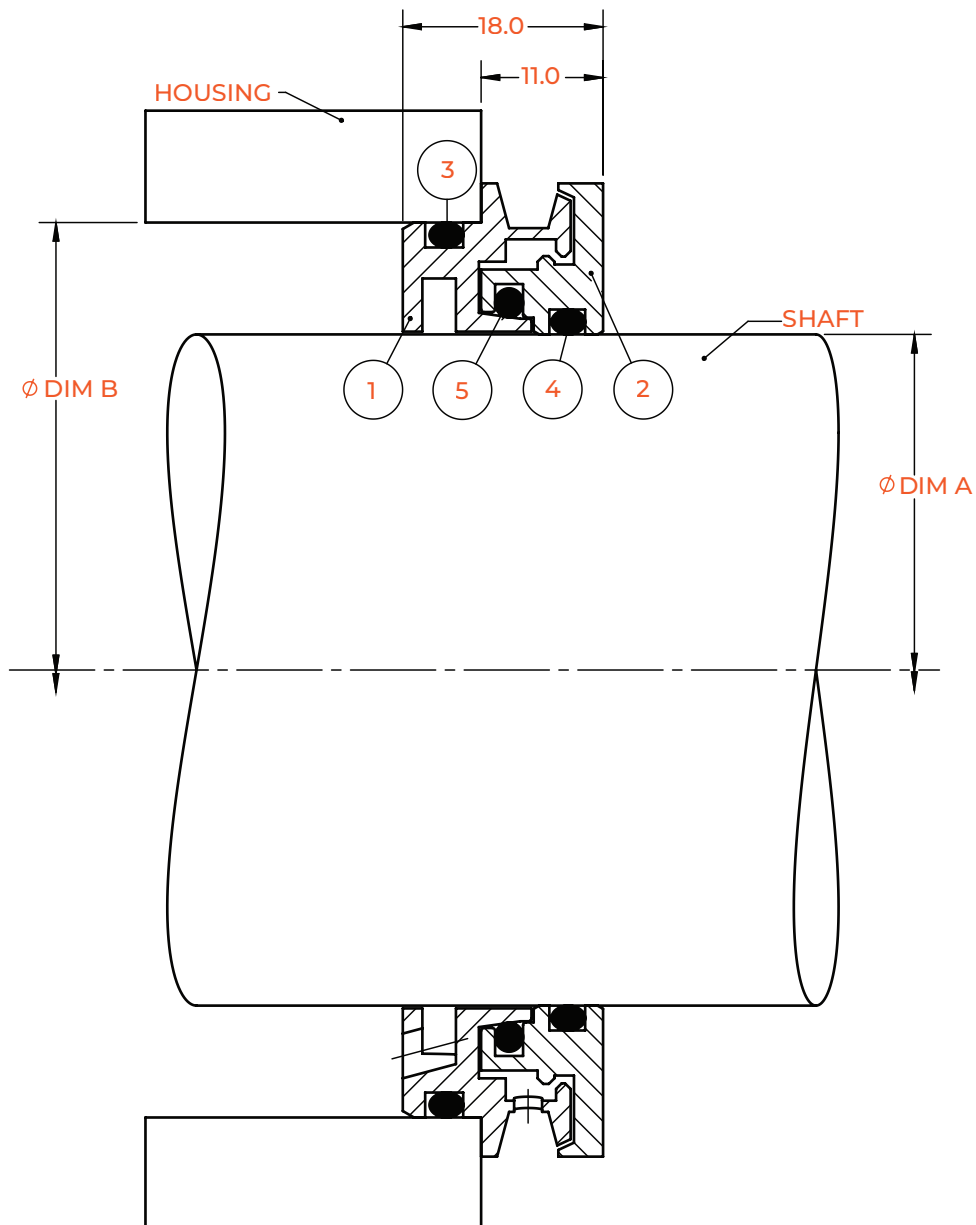
Elastomers: Viton / EPDM / Nitrile

Metal Components: Stainless Steel and other metals

Rotational Speed: Up to 3600 RPM

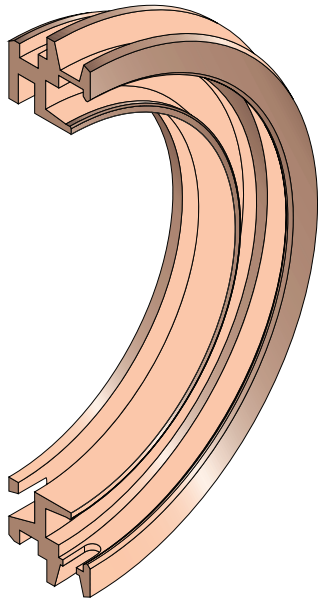
Fluid Compatibility: Bearing oil, others

	Description	Material
1	Stator	Bronze
2	Rotor	Bronze
3	Stator Elastomer	Viton
4	Rotor Elastomer	Viton
5	Inner Rotor Elastomer	Viton

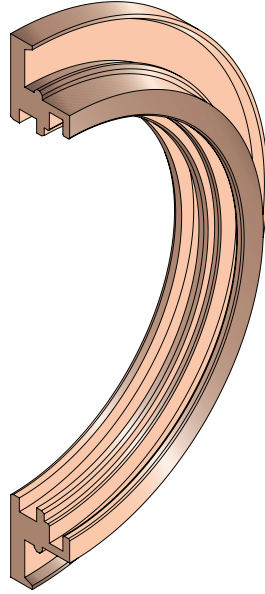


SHAFT SIZE (DIM A)	HOUSING BORE SIZE (DIM B)	SHAFT SIZE (DIM A)	HOUSING BORE SIZE (DIM B)	SHAFT SIZE (DIM A)	HOUSING BORE SIZE (DIM B)	SHAFT SIZE (DIM A)	HOUSING BORE SIZE (DIM B)
20	36	50	70	75	115	108	145
20	40	50	80	75	120	110	132
22	40	50	82	76	100	110	145
22	45	50	90	76	106	110	160
24	48	50	95	78	100	110	170
24	50	52	76	78	106	112	134
25	42	52	80	80	100	112	139
25	47	54	74	80	106	114	134
25	50	54	80	80	113	114	139
25	52	55	75	80	120	116	140
25	55	55	78	82	108	116	145
25	60	55	80	82	114	118	140
26	50	55	88	84	108	118	144
26	52	55	90	84	114	120	140
28	50	55	100	85	108	120	152
28	56	55	105	85	120	120	158
30	50	56	76	85	126	120	170
30	47	56	90	85	133	122	145
30	52	58	80	85	145	122	152
30	60	58	88	85	152	124	145
30	70	60	80	85	155	124	152
32	64	60	82	86	108	126	152
32	70	60	90	86	120	126	164
34	70	60	95	88	108	128	152
34	68	60	100	88	120	128	158
35	52	60	110	90	110	130	152
35	62	62	82	90	120	130	158
35	68	62	90	90	135	130	170
35	70	64	88	90	155	130	190
35	75	64	80	90	160	132	152
36	72	65	90	92	114	132	164
36	70	65	100	92	120	134	152
38	76	65	102	94	114	134	158
38	78	65	108	94	120	136	158
40	60	66	88	96	115	136	164
40	68	66	90	96	126	138	158
40	78	68	90	98	120	138	164
40	80	68	94	98	132	140	160
42	80	70	90	100	120	140	170
42	87	70	95	100	135	140	180
44	68	70	100	100	145	142	164
44	64	70	108	100	150	142	170
45	65	70	120	100	155	144	162
45	75	70	125	102	122	144	164
45	80	72	94	102	132	146	166
45	90	72	100	104	126	146	170
46	66	74	94	104	134	148	170
46	70	74	100	106	126	148	178
48	68	75	100	106	139	150	170
48	72	75	108	108	132	150	180

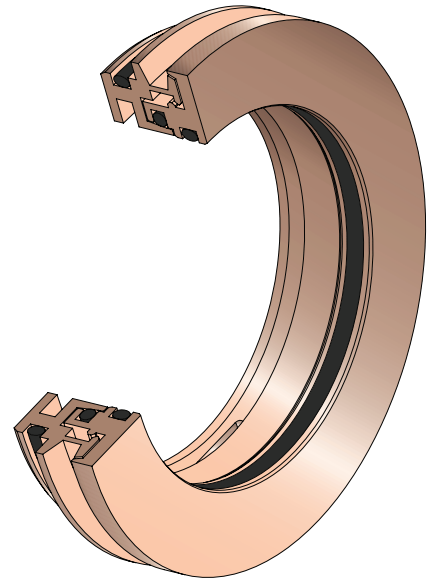
All dimensions are in millimetres. Kindly contact Leak-Proof®'s representatives for shaft sizes above 150 mm.



| STATOR UNIT



| ROTOR UNIT



| UNIT ASSEMBLY

| Precision Machining and Inspection

At Leak-Proof®, we recognize the criticality of precision in every aspect of our processes. That is why we employ precision machining techniques, crafting each isolator to exacting tolerances, guaranteeing a seamless fit for your specific application. Furthermore, before reaching your hands, every isolator undergoes meticulous inspection processes, ensuring it meets our stringent quality benchmarks.

| Bespoke Design Solutions at your site

We understand that every product is unique, that is why we offer bespoke design solutions for our Bearing isolators. Our team of experts is fully equipped to manufacture bearing isolator tailored to your precise specifications. Whether you require specific dimensions or have unique design requirements, we have the flexibility and expertise to craft the perfect solution for your needs. With Leak-Proof®, you can expect a truly customized approach to meet your engineering challenges.

Choose Leak-Proof® for top-tier Bearing protection and your equipment that guarantee reliability and efficiency in your operations. Our isolator can be easily retrofitted onto your machinery or integrated into new designs, providing flexibility and convenience for maintenance and upgrades.

“Contact us” today to discuss how our bearing isolator can meet your specific needs and elevate your product performance to new heights.

MB-01

MAGNETIC

BEARING

IMC

ISO 9001

ISO 14001



**Leak-Proof®
Patented Design.**

I IsoPro™ MAGNETIC BEARING ISOLATOR (MB - 01 Series)

IsoPro™ Magnetic Bearing Isolators for Superior Pumping Applications.

At Leak-Proof®, we take pride in delivering exceptional Bearing Isolators magnetic type designed for a wide range of applications and operations.

I Product Features

Our magnetic type bearing isolators are meticulously designed to prioritize equipment longevity and efficiency. Featuring an innovative face to face non - contact design, they effectively seal out contaminants, creating a barrier between the external environment and internal lubrication. This engineered magnetic face to face non - contact type seal develops a perfect seal, preventing ingress of contaminants and ensuring robust protection for the shaft, bearings, and overall equipment. Operating on a non-contacting principle, our isolators excel in vibration absorption, float control, minimizing friction and heat generation for smooth and silent operation. With Leak-Proof engineering, you receive superior protection and float control in one comprehensive package.

I Versatile Materials

Our bearing isolator come with bronze materials, ensuring robust performance with effective heat control. We also offer options with other metals to meet specific needs of the customer.

In addition to FKM O-rings, we provide a diverse range of O-ring options including FFKM and others standard O-ring material.

I Features and Benefits

- ◆ Non-Contact Magnetic Sealing ◆ Enhanced Contaminant Protection
- ◆ Superior sealing performance ◆ Extended bearing life
- ◆ Reduced maintenance costs ◆ Compatibility with various operating conditions

I Advantages

- **Low Maintenance:** The non-contact design significantly reduces the need for regular maintenance and inspections, saving time and costs.
- **Energy Efficiency:** The zero-friction design minimizes energy loss, contributing to lower operational costs.
- **High Reliability:** Proven to perform consistently in demanding industrial applications, ensuring optimal equipment uptime.

I Application Examples

- ◆ Pumps and pumping systems ◆ Motors and generators
- ◆ Gearboxes and drivetrains ◆ Compressors and turbines
- ◆ Agitators and mixers
- ◆ Other rotating equipment in industries such as manufacturing, oil and gas, mining, and automotive.

I Installation & Maintenance Guidelines

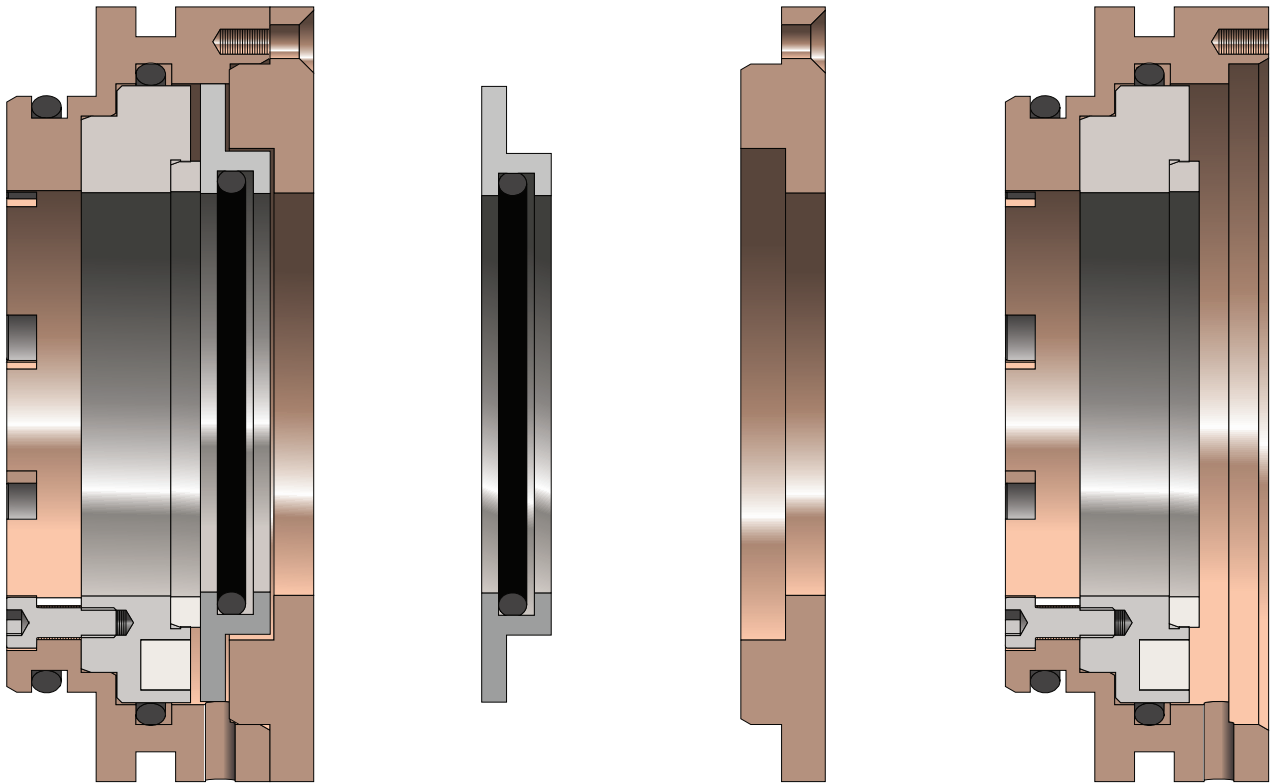
- Ensure a smooth installation by cleaning the shaft and housing, applying lubricant, and securing the isolator snugly.
- Regularly inspect for wear or damage, maintaining cleanliness to prevent contamination.
- Monitor lubrication levels and follow replacement recommendations for optimal performance and longevity.

SHAFT SIZE (DIM A)	HOUSING BORE SIZE (DIM B)
20	40
24	48
24	50
25	55
25	50
25	60
25	52
26	50
26	52
28	56
30	50
30	70
30	60
32	64
34	70
34	68
35	75
35	70
35	62
36	72
36	70
38	78
40	60
40	68
40	80
42	87
44	64
44	68
45	65
45	75
45	80
45	90
46	66
46	70
48	68
48	72
50	70
50	82
50	90
50	94
50	102
50	106
50	80
50	95
50	104
50	96
52	76
52	80
54	74
54	80

SHAFT SIZE (DIM A)	HOUSING BORE SIZE (DIM B)
55	75
55	105
55	80
55	90
55	100
56	76
56	90
58	88
60	80
60	100
60	110
60	90
60	95
62	82
62	90
64	88
65	90
65	100
66	90
68	94
70	90
70	120
70	100
70	95
70	125
72	100
74	94
74	100
75	115
75	100
75	120
76	100
76	106
78	106
80	100
80	120
80	106
82	114
82	108
84	108
84	114
85	133
85	145
85	120
86	120
88	108
88	120
90	110
90	120
90	135

SHAFT SIZE (DIM A)	HOUSING BORE SIZE (DIM B)
92	120
94	114
94	120
96	126
98	132
100	120
100	150
100	135
100	145
100	155
102	122
102	132
104	134
106	126
108	132
110	170
110	160
110	145
114	134
114	139
116	140
118	144
120	140
120	152
120	170
122	152
124	152
126	152
128	152
128	158
130	158
130	170
130	190
132	152
132	164
134	158
136	164
138	158
138	164
140	160
140	180
140	170
142	170
144	164
146	166
146	170
148	178
150	170
150	190
150	180

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| UNIT ASSEMBLY

| ROTOR UNIT

| COVER

| STATOR UNIT

| Precision Machining and Inspection

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| Bespoke Design Solutions at your site

We understand that every product is unique, that is why we offer bespoke design solutions for our Bearing isolators. Our team of experts is fully equipped to manufacture bearing isolator tailored to your precise specifications. Whether you require specific dimensions or have unique design requirements, we have the flexibility and expertise to craft the perfect solution for your needs. With Leak-Proof®, you can expect a truly customized approach to meet your engineering challenges.

Choose Leak-Proof® for top-tier Bearing protection and your equipment that guarantee reliability and efficiency in your operations. Our isolator can be easily retrofitted onto your machinery or integrated into new designs, providing flexibility and convenience for maintenance and upgrades.

"Contact us" today to discuss how our bearing isolator can meet your specific needs and elevate your



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