

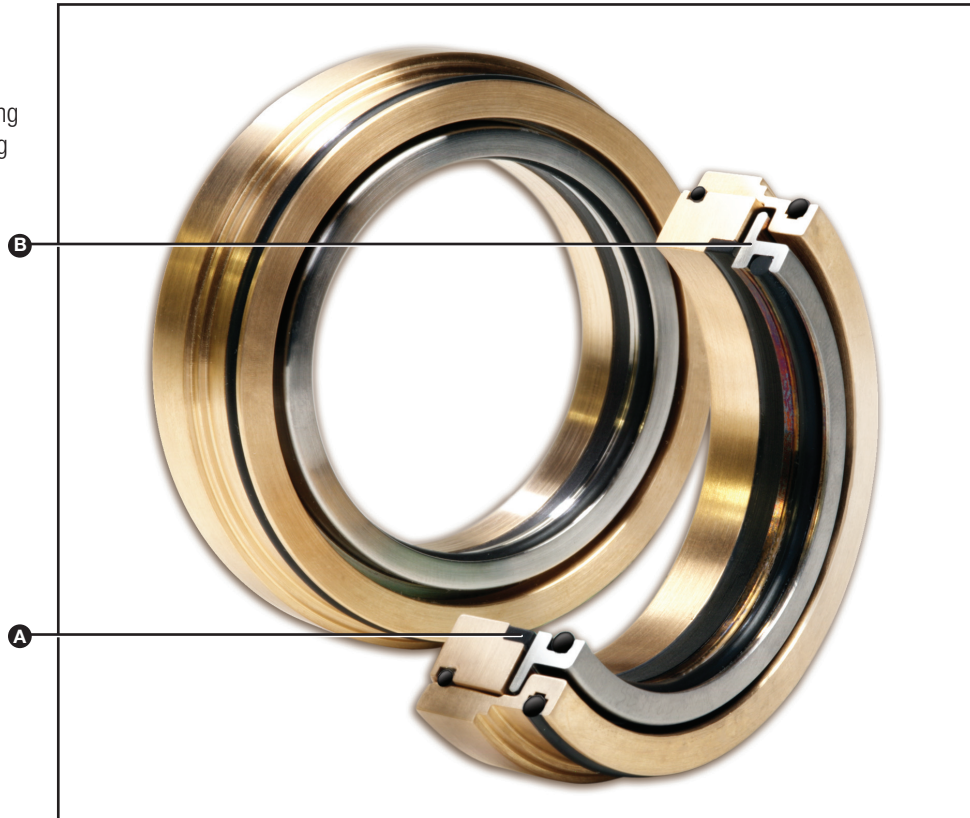


# ISOMAG MAGNUM-S

Cartridge Magnetic Bearing Seal - with Easy Flex

MAGNUM-S

- A – Face/Primary Ring
- B – Seat/Mating Ring

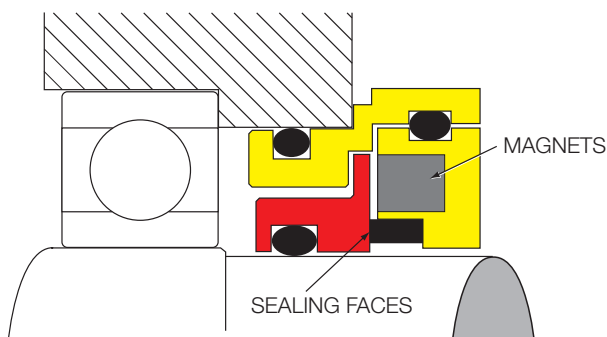


## Product Description

- The ISOMAG MAGNUM-S is a magnetically energized precision contacting mechanical seal designed to completely seal your power frame, gearbox, motor, turbine, blower and more. The “S” features precision lapped faces and O.D. hydraulic loading to assure sealing in flooded applications. All these features are in a compact unitized assembly that installs with ease.
- The MAGNUM-S resolves long-standing issues of leakage and installation with flooded bearing seals.

## Design Features

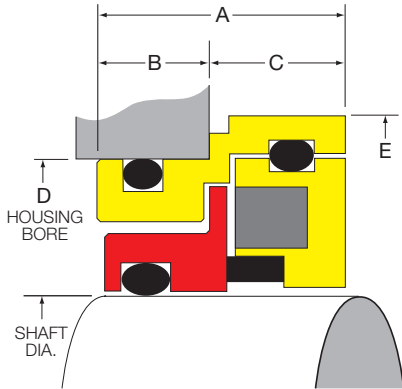
- MAGNUM-S with Easy Flex magnetically aligning faces, allow increased flexibility to handle more vibration, more misalignment and more applications.
- The MAGNUM-S cartridge seal fits narrow cross section and short axial length applications that previously prevented the use of precision flat face seals.
- The MAGNUM-S cartridge design correctly sets the seal and contains axial rotor movement within the cobalt magnetic field, for the life of the seal... Even if you move the shaft.
- Works best for oil flooded, oil mist, oil splash & grease applications and in any position: horizontal, vertical up, vertical down.
- Custom sizes built to fit.
- MAGNUM-S – U.S. Patent 6,805,358.



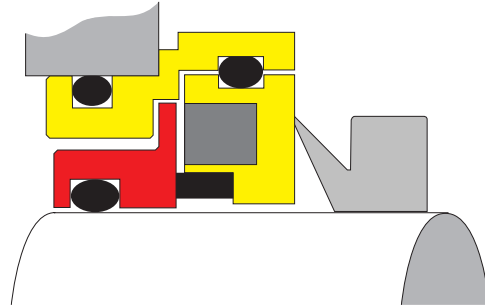


# ISOMAG MAGNUM-S

## Cartridge Magnetic Bearing Seal - with Easy Flex



**Standard Flanged Seal**



**With Optional V-Ring**

### Inch Size Seals

Shaft Diameter	A	B	C	D (min.)	E (min.)
.745" to 2.005"	.685	.310	.375	Shaft Dia. + .750	Bore Dia. + .250
2.006" to 2.880"	.740	.340	.400	Shaft Dia. + .750	Bore Dia. + .250
2.881" to 7.005"	.950	.500	.450	Shaft Dia. + 1.000	Bore Dia. + .320
7.006" to 13.000"	1.125	.500	.625	Shaft Dia. + 1.250	Bore Dia. + .500

### Metric Size Seals

Shaft Diameter	A	B	C	D (min.)	E (min.)
19 to 50 mm	17.4	7.9	9.5	Shaft Dia. + 19.00	Bore Dia. + 6.35
51 to 73 mm	18.8	8.6	10.2	Shaft Dia. + 19.00	Bore Dia. + 6.35
74 to 177 mm	24.2	12.7	11.5	Shaft Dia. + 25.00	Bore Dia. + 8.13
178 to 330 mm	28.6	12.7	15.9	Shaft Dia. + 31.75	Bore Dia. + 12.70

### Specifications

Rotary Face: HT 17-4 PH  
 Stationary Face: TFE Composite  
 Stator: Bronze  
 Adapter: Bronze  
 Elastomers: Fluoroelastomer  
 Magnets: Rare Earth

*Optional Materials Available*

**Max. Operating Conditions**  
 Operating Temperature: 300°F  
 Pressure: 20 PSIG  
 Speed (lubricated): 12,000 FPM  
 Speed (dry): 4,000 FPM



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**smthS**

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