

MAGNETIC FILTER PLUGS

DESCRIPTION

OEI Magnetic Filter Plugs are the high quality replacement for OEM ceramic magnet drain plugs. Designed with the highest quality rare-earth magnets fastened to the plug body, the magnetic filter plug captures abrasive wear particles and prevents them from circulating throughout the system. OEI Magnetic Filter Plugs have a high holding capacity and they resist vibration and high-temperatures that typically reduce conventional strength over time.

OEI Magnetic Filter Plugs are effective predictive maintenance tools when integrated into maintenance programs.

BENEFITS

- » Extend the life of critical systems such as differentials, wheel motors, and final drives by indicating component wear and preventing system failures.
- » Do not degrade from heat and vibration.
- » Capture ferrous and non-ferrous contamination.

APPLICATIONS

DRAIN PLUGS

DIFFERENTIALS

TRANSFER CASE

WHEEL HUBS

WHEEL MOTORS

TRANSMISSIONS



EXPECTED WEAR



CAUTION



IMMINENT FAILURE

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EFFICIENCY

| | | |
|----------------------|---------------------------|---|
| Magnetic Filter Plug | Ferrous Contamination | Captures ferrous wear particles down to 4 μ and below with up to 95+% efficiency. |
| | Non-ferrous Contamination | Non-ferrous particles are magnetically captured because of cross-contamination from embedded ferrous particles. |

OPERATING PARAMETERS

| | | |
|--------------------|---------------|------------------------|
| Pressure Rating | Standard | < 20.7 bar (300 psi) |
| | High Pressure | < 413.7 bar (6000 psi) |
| Temperature Rating | Standard | < 150° C (300° F) |
| | High Heat | < 300° C (600° C) |

CLEANING

Remove the contamination with a lab cloth/non-fiber cloth that absorbs the contamination. Save the cloth in a sample bag to send for analysis.

Best Practice: Place the entire magnetic filter plug into a sample bag and send it for analysis. Replace it with a new magnetic filter plug and recycle the old one after analysis.

MATERIAL CONSTRUCTION

| | | |
|----------------------|-----------|--------------------|
| Magnetic Filter Plug | Standard | Rare-earth magnets |
| Body | Standard | Carbon Steel |
| | | Stainless Steel |
| Seals | Standard | Buna |
| | High Heat | Viton |
| | Sub-zero | EDPM |

INSTALLATION

| Seals | | Standard O-ring | | | | Recessed O-ring | | | | Bonded Seal | | | |
|----------------|---------------|-----------------|-----|------|-----------------|-----------------|----|--------------|-------|--------------|-------|-----|--|
| Thread Sizes | NPT, BSP (in) | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3+ | |
| | Metric (mm) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 26 | 27 | 30 | 33+ | |
| | ORB | 04 | 05 | 06 | 08 | 10 | 12 | 14 | 16 | 20 | 24 | 32+ | |
| Fasteners | | NPT | | BSPT | | BSPP | | ORB | | Metric | | SAE | |
| Fastener Types | | Internal Square | | | External Square | | | Internal Hex | | External Hex | | | |

LIMITED WARRANTY

| | |
|----------------------|--------|
| Magnetic Filter Plug | 1 year |
|----------------------|--------|

SERVICE LIFE

| | |
|----------------------|-----------|
| Magnetic Filter Plug | 18+ years |
|----------------------|-----------|

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