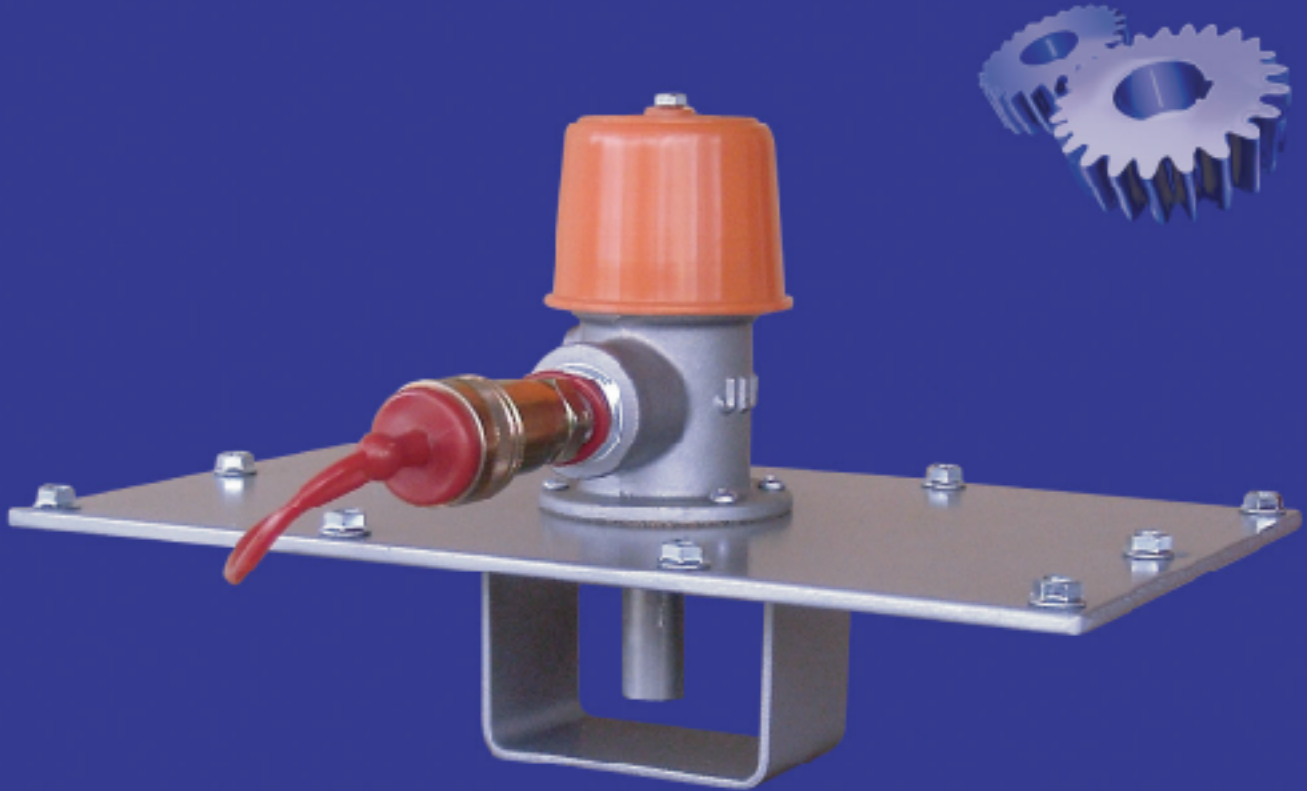


# OILMISER™

## Gearbox Tools & Accessories



## Reliability Centered Maintenance

**JLM**  
SYSTEMS LIMITED



# OILMISER™ Fluid Handling Products

JLM Systems offers a unique line of OILMISER™ Gearbox Breathers and Accessories



All OILMISER™ Gearbox Breathers have two separate internal passages; one passage at 90 degrees for lubricating oil, and one vertical airway for venting the enclosed air space.

For true Kidney-Loop Filtration to be effective on Gearboxes and Rotating Machinery there are three basic prerequisites:

- a return oil inlet on the top or side
- a breather to vent the enclosed air space
- an oil outlet from the bottom sump



OILMISER™ Gearbox Breathers and Accessories satisfy all three requirements.

OILMISER™ Gearbox Breathers replace the original breather supplied by the manufacturer. In most cases the OILMISER™ Gearbox Breather can be installed in minutes, without gearbox modifications, and without compromising the continuous operation of the machine.

OILMISER™ Gearbox (Side) Breathers also have a dedicated oil passage and a separate airway. They are available for side ports from 1" NPT to 2" NPT.



## OILMISER™ Gearbox Breathers for Top Inspection Cover

GTB-1000-ROD30	Top Breather assembly for gearbox inspection cover. Use 6 hole by 2.88" BC mounting pattern. Includes a 3 inch Return Oil Deflector and return oil tube for underside of cover, an OILMISER™ 5 micron air filter and molded cap, and a mounting kit. The 90 degree oil inlet is 1" NPT.
GTB-1000-ROD30-QC51	Includes all of the above plus a 1/2 inch Quick Disconnect Coupling and Dust Cover. Unless otherwise specified the OILMISER™ QC51 and High Visibility RED dust cover is supplied.
GTB-1000-ROD30-A100-QC51	Includes all of the above plus an OILMISER™ Top End Coupler for a slip-fit Desiccant Breather and a QC51 Quick Disconnect Coupling and Dust Cover.

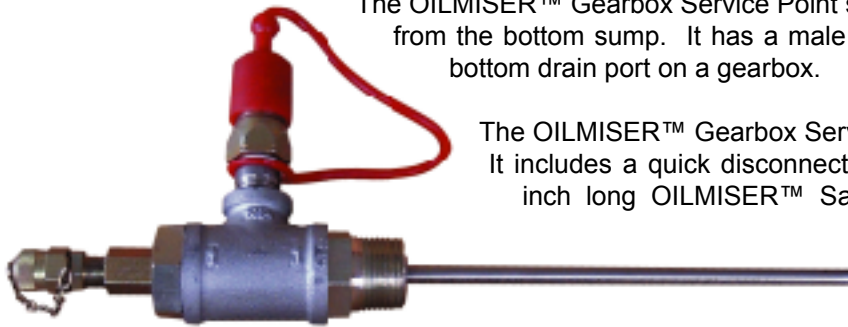
## OILMISER™ Gearbox Breathers for Top & Side Pipe Port

GTB-4075-075-QC51	Basic OILMISER™ Gearbox Breather assembly for 3/4" NPT pipe port, with a 3/4" NPT pipe port for a breather. Includes 3" long return tube and a QC51 Quick Disconnect Coupling and Dust Cover.
GTB-4075-FE05M-QC51	Includes all of the above plus an OILMISER™ 5 micron air filter and molded cap, and a QC51 Quick Disconnect Coupling and Dust Cover.
GTB-4075-3303M-QC51	Includes all of the above plus an OILMISER™ 3 micron Microglass Spin-on air filter (1-12 TPI by 3.7" Dia. by 5.3" long ) and a QC51 Quick Disconnect Coupling and Dust Cover.
GTB-4075-A100-QC51	Includes all of the above plus an OILMISER™ Top End Coupler for a slip-fit Desiccant Breather and a QC51 Quick Disconnect Coupling and Dust Cover.
GSB90-1100-BE100-QC51	OILMISER™ 90 Degree Gearbox (Side) Breather for 1" NPT side port. Includes an OILMISER™ 5 micron air filter and molded cap, and a QC51 Quick Disconnect Coupling and Dust Cover.

# OILMISER™ Fluid Handling Products

## The OILMISER™ Gearbox Service Point

The OILMISER™ Gearbox Service Point satisfies the third prerequisite: an oil outlet from the bottom sump. It has a male pipe thread, and mounts directly into the bottom drain port on a gearbox.



The OILMISER™ Gearbox Service Point is shipped ready for installation. It includes a quick disconnect and dust cover for a suction hose; a 12 inch long OILMISER™ Sampling Tube and a Minimes Series B Sampling Valve.

GSP-410012-MB25-QN51

Typical OILMISER™ Gearbox Service Point for 1"NPT female drain port. Includes OILMISER™ Sampling Tube, a QN51 Quick Disconnect and Dust Cover, and SV-MB25 sampling valve.

## The OILMISER™ Sampling Tubes



The 3 piece design is the defining feature for OILMISER™ Sampling Tubes. This gives unparalleled flexibility to the OEM, the Service Contractor, and the End User.

The 3 separate components include a gland-seal bushing, a stainless steel sampling tube and a gland-seal tube retainer.

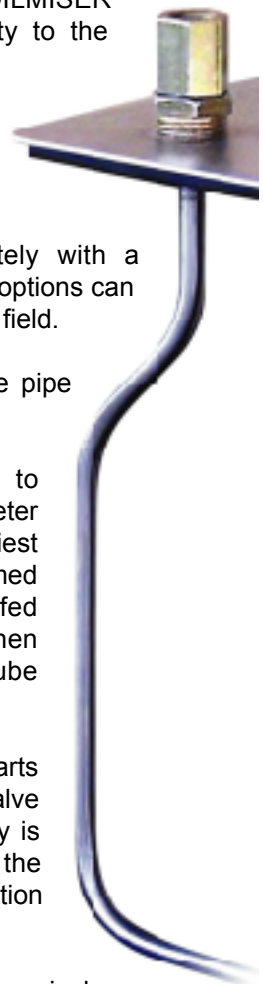
Gland-Seal Bushings can be purchased separately with a removable seal plug. Now, a number of oil sampling options can be pre-installed prior to installation and start-up in the field.

Gland-Seal Bushings are available in standard male pipe sizes from 1/2" NPT to 1-1/2" NPT.



A large bore stainless steel tube is exclusive to OILMISER™ Sampling Tubes. With an inside diameter that exceeds 1/4 inch, the OST handles the heaviest gear oils. The sampling tube can also be pre-formed prior to installation. The bent sampling tube is fed through the access port on the gearbox. It is then accurately positioned, using an OILMISER™ Tube Orientation Tool and locked in place.

A positive metal to metal contact between mating parts ensures the accurate orientation of the sampling valve on installation, or when disassembly and reassembly is necessary. Now the safety and effectiveness of the service technician can be reflected in both the location and final positioning of the sampling test point.



All OILMISER™ Sampling Tubes have a 1/4" NPT female end port. An optional 90 degree swivel is available giving a full 360 degrees of rotation. Standard tube lengths are 12 inches and 24 inches. However, with the OILMISER™ 3 piece design, any length of tube can be accommodated.

# OILMISER™ Fluid Handling Products

## OILMISER™ Sampling Tubes

On critical rotating equipment, oil sampling and oil analysis has long been recognized as a prime indicator of a machine's condition and reliability. Most manufacturers of gearboxes, specify oil cleanliness levels in their warranty, yet few make provisions or recommendations for oil sampling.



OILMISER™ Sampling Tubes, with the largest inside diameter available, numerous mounting configurations, and an ease of installation that is unequalled, raises the bar on reliability centered maintenance.

Whether you use a standard Minimes Series B sampling valve and a vacuum pump, or a High Flow High Viscosity sampling valve and a vacuum pump, drawing that oil sample will be easier, safer and more reliable using an OILMISER™ Sampling Tube.



### OILMISER™ Sampling Tools and Accessories

OST-05012	1/2" NPT male pipe with 12 inch sampling tube and 1/4" NPT female end port inline
OST-07512	3/4" NPT male pipe with 12 inch sampling tube and 1/4" NPT female end port inline
OST-10012	1" NPT male pipe with 12 inch sampling tube and 1/4" NPT female end port inline
OST-12512	1-1/4" NPT male pipe with 12 inch sampling tube and 1/4" NPT female end port inline
OST-15012	1-1/2" NPT male pipe with 12 inch sampling tube and 1/4" NPT female end port inline
OST-05024	1/2" male pipe with 24 inch sampling tube and 1/4" NPT female end port inline (Typical)
OST-05012-S90	1/2" NPT male pipe with 12 inch sampling tube and 1/4" NPT female 90° swivel end port (Typical)
SV-MB25	Sampling Valve - Minimes Series B with tethered cap and 1/4" NPT male pipe for lower viscosity oil
SP-MB25	Sampling Probe - Female connector for SV-MB25 with barbed spigot. Use 1/4" OD x .170 Poly sampling tube
SV-HF25	Sampling Valve - High Flow High Viscosity with tethered cap and 1/4" NPT male pipe connection
SP-HF25	Sampling Probe. Female connector for SV-HF25 with barbed spigot for 1/4" OD by .170" ID Poly sampling tube

JLM Systems is a leading manufacturer of innovative products for machine reliability. We design tools and equipment that are simple, reliable, cost effective and, most importantly, tools and equipment that go to work immediately.

**OILMISER™ 3 Piece Sampling Tubes**

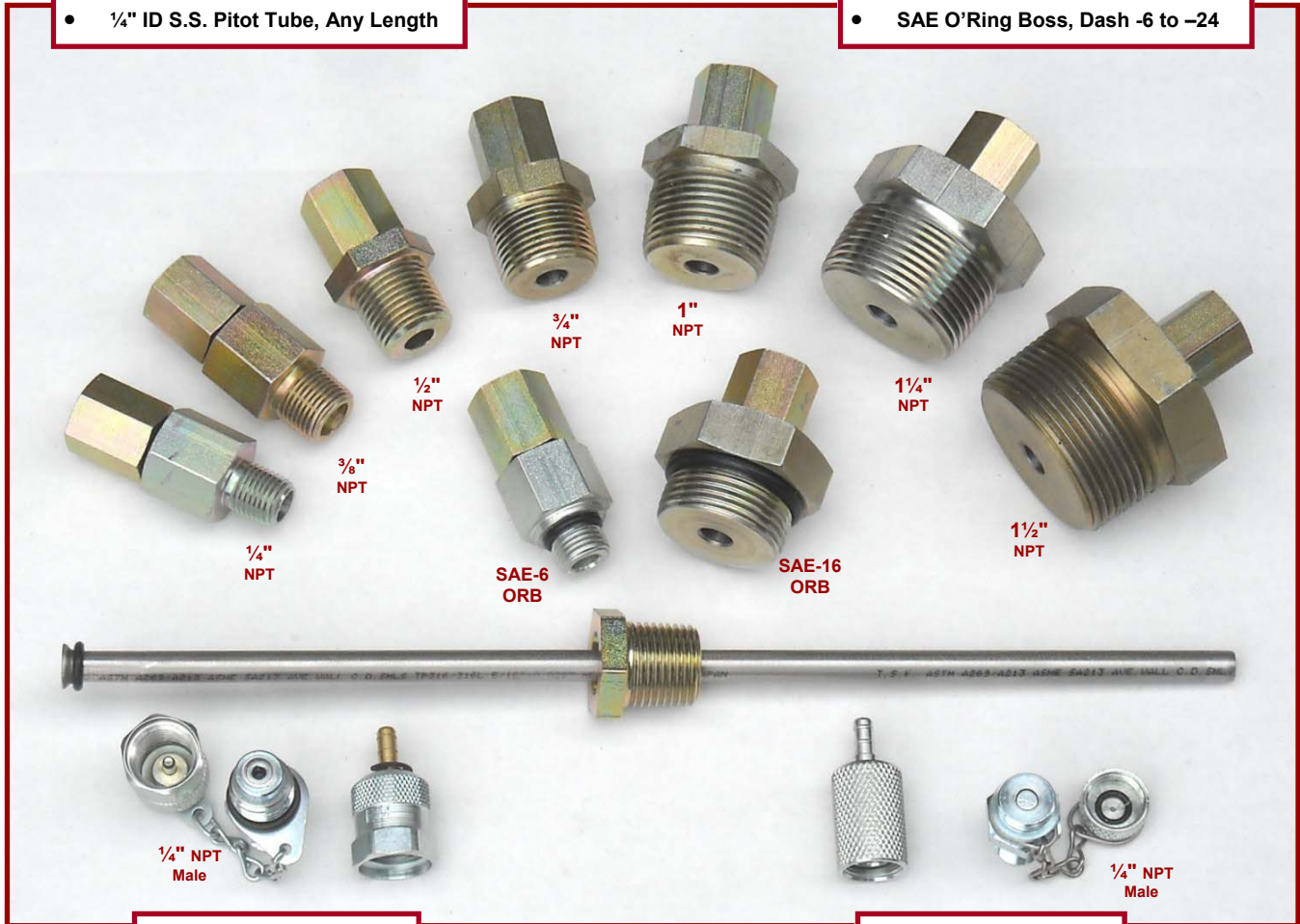
- More Choice
- More Flexibility
- More Standardization

**OILMISER™ 3 Piece Sampling Tubes**

- No bushings, fewer leak points
- ¼" ID S.S. Pitot Tube, Any Length

**OILMISER™ 3 Piece Sampling Tubes**

- Standard Pipe, ¼" NPT to 1½" NPT
- SAE O'Ring Boss, Dash -6 to -24



**Hi Pressure / Lo-Viscosity  
OIL Sampling  
SV-MB25 / SP-MB25**

**Hi-Flow / Hi Viscosity  
(Gearbox) OIL Sampling  
SP-HF25 / SV-HF25**

OILMISER™ Sampling Tube - OST-02512



**OILMISER™ Sampling Tubes**  
**What sets us Apart from the Others ?**  
**Unequaled Flexibility!**

The unique three piece design of OILMISER™ Sampling Tubes gives greater flexibility in the work place.

Unlike conventional brazed pitot tubes, this 3 piece design permits the pitot tube to be pre-bent before installation. Then, using our Tube Orientation Tool (TOT) it can be positioned inside the gearbox or reservoir with accuracy and confidence.

The three separate pieces include:

1. A gland-seal bushing (GSB)
2. A gland-seal tube retainer (GTR)
3. A stainless steel pitot tube (SST)

Gland-seal bushings (GSB) are available in male pipe sizes from 1/4" NPT to 1 1/4" NPT. Now, the most convenient access port on a gearbox or reservoir can be used for oil sampling. Installation is faster, and potential leak points avoided, whenever pipe bushings are not required.

A full 1/4" inside bore pitot tube, 4 times the industry standard, means that 1/4 the effort is required when drawing oil samples using a hand held vacuum pump.

Sampling valves are ordered separately, standard minimess Series B Test Points for hydraulic oil and lighter lube oils, or High Viscosity Test Points for heavier lube oils.

Slide the GSR onto the TOT



Insert Pitot Tube into GSB



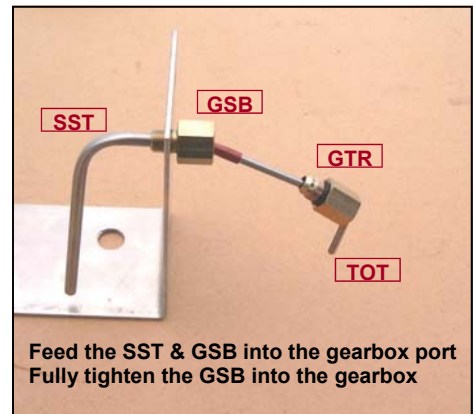
Press the TOT into the pitot tube



Fully Assemble the OST

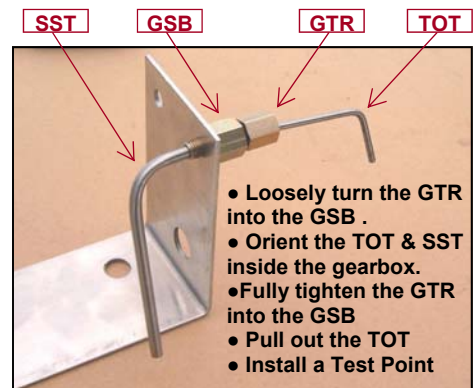


Align the TOT with the bent tube



Feed the SST & GSB into the gearbox port  
 Fully tighten the GSB into the gearbox

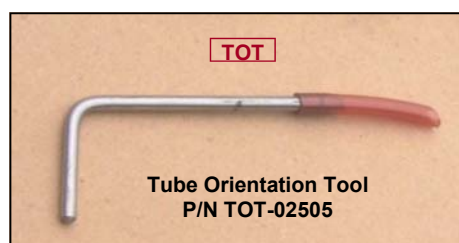
Position a Tube Bender on the Assembly



Bend the Pitot Tube & Disassemble



TOT



Tube Orientation Tool  
 P/N TOT-02505

## A Picture can Save a 1000 Words & Thousands of Kilometers

Send us a picture of your particular application, and we can send you the information you need



### What you should consider

- **What do you want to do?**
  - Filling and venting
  - Draining and disposal
  - Oil sampling and analysis
  - Contamination control
  - Kidney-loop filtration
  - Portable or dedicated system
  - Circulating and cooling
  - Oil room storage & dispensing
- **What do you have now?**
  - Hydraulic Reservoirs
  - Gearbox or bearings
  - Type & Size of vent
  - Top or side access
  - Pipe, metric or flange
  - Inspection cover layout
  - Type & size of drain port
  - Oil Sight - Level gauge
  - Type and grade of oil
- **What are the operating conditions?**
  - Indoors or outdoors
  - Cold, wet, dry, dusty
  - Accessibility - top to bottom
  - Front to back - side to side
  - Obstructions and elevations
  - High or low traffic area
  - Inspection frequency
  - Service intervals

