



ESCO PRODUCTS, INC.

Maintenance Lubrication



Visual Oil Analysis



Contamination Control



ESCO PRODUCTS

Solving Lubrication Problems

Esco Products provides services and solutions for maintenance and lubrication problems in any industry that uses reciprocating and rotating equipment with oil reservoirs. This full-concept approach provides maintenance and reliability managers with a one-stop source to handle any lubrication problem.

	WATER CONTAMINATION CONTROL	VIEW OIL CLARITY	MONITOR OIL LEVEL	HIGH TEMP APPLICATIONS	MINIMIZE DOWNTIME	PARTICULATE CONTAMINATION CONTROL	360° VIEW	ADDITIONAL BENEFITS
3-D BullsEye		●	●		●		●	See foaming in oil. Available in many threads to easily replace existing sight windows
Single-Piece Oil Sight Glass	●	●			●		●	Suitable for higher pressures and harsh environments, durable and stain resistant
Oil Sight Glass	●	●			●		●	Vertical and horizontal Installation for space limitations
Hi-Temp Oil Sight Glass	●	●		●	●		●	Suitable for higher temperature (up to 450° F)
Oil Level Indicator		●	●		●		●	Filtered or close-looped installations
Oil Sight Glass & Level Monitor	●	●	●		●		●	Dual Port option for sample oil. Filtered or closed-loop installation
Des-Case Breathers	●			●	●	●	●	Color changing desiccant material. Solutions for sanitary and mobile equipment
Des-Case Filter Carts	●			●	●	●		Filter oil while dispensing, storing or actively using equipment

HIGH PERFORMANCE, INNOVATIVE PRODUCTS THAT PROTECT COSTLY RECIPROCATING MACHINERY



Visual oil inspection products designed for easy installation on almost all lubricating machinery oil reservoirs.



Comprehensive water and particulate contamination control products that extend the life and decrease the downtime of lubricated machinery.



Long-lasting silicone sealants that are available in packaging to fit your operation, and Molykote machine lubrication products.



Heat transfer fluids that include three distinct chemistries –inhibited glycol, synthetic organic, and silicone and that are designed to help meet demanding system performance, protection, and safety requirements.

OIL SIGHT GLASS

The Original Solution to Oil Inspection and Contamination Problems

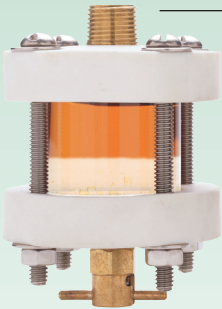


SINGLE-PIECE

SINGLE-PIECE	1 oz. Oil Sight Glass	3 oz. Oil Sight Glass
Outside Diameter	1.75"	2.25"
Length	3.50"	4.25"
Operating Range	-40° F to 200° F Maximum Pressure up to 200 PSI	
Specifications	<ul style="list-style-type: none">• Machined out of one solid piece of acrylic• No bonds or seams, exceptionally long life• Brass drain valve easily drains water• 1/4", 3/8", 1/2" or 3/4" NPT brass nipples• Designed for harsh environments and aggressive applications• Stainless Steel hardware available	



OPTIONS



HIGH TEMPERATURE
Heavy-walled Pyrex glass for temperatures up to 450° F.



MAGNET
Rare earth magnet attracts ferrous particles.



OIL SIGHT GLASS
For horizontal applications with space limitations.



LARGE VOLUME
Vertical 16 oz. and 32 oz. models are available.

3-D BullsEye™

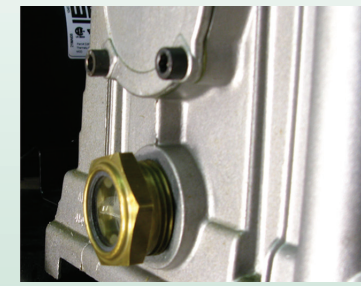
A Better Oil Level Viewport

3-D BULLSEYE	PART NO.	3-D BULLSEYE	PART NO.
1/4" NPT	3BD0250	METRIC 10X1.0	3DBM10X1.0
3/8" NPT	3BD0375	METRIC 10X1.5	3DBM10x1.5
1/2" NPT	3BD0500	METRIC 12X1.5	3DBM12X1.5
3/4" NPT	3BD0750	METRIC 16X1.5	3DBM16X1.5
1" NPT	3BD1000	METRIC 20X1.5	3DBM20X1.5
1 1/4" NPT	3BD1250	METRIC 24X1.5	3DBM22X1.5
1 1/2" NPT	3BD1500	METRIC 26X1.5	3DBM24X1.5
2" NPT	3BD2000	METRIC 27X1.5	3DBM26X1.5
		METRIC 27X1.5	3DBM27X1.5
		METRIC 30X1.5	3DBM30X1.5
		METRIC 30X2.0	3DBM30X2.0
		METRIC 33X1.5	3DBM33X1.5

Operating Range -40° F to 200° F
-Maximum Pressure up to 65 PSI

UV-resistant
BSPP threads are available

THE OLD WAY



Old-fashioned sight plug makes oil monitoring very difficult.

THE ESCO WAY



With Esco's 3-D BullsEye™, the reservoir oil can be inspected easily and accurately.



MAGNETIC OIL MONITORS

Real-Time Feedback About Oil Conditions



Esco Products, Inc has developed visual tools to assist operators in monitoring the ever-changing condition of the oil in their equipment. The Magnetic Oil Monitors kit contains three durable magnetic strips that adhere directly to equipment, and provide real-time feedback on oil temperature, color, and clarity. A pencil or dry-erase marker can be utilized to note the readings on a checklist or indicate the last measurement taken, allowing users to monitor changes over time.

OIL LEVEL INDICATOR

Monitors Oil Level with Heights up to 15"



NPT	1/2"
Outside Diameter	.875"
Length	3", 6", 9", 12", 15"
Operating Range	-40° F to 200° F Maximum Pressure up to 65 PSI
Specifications	<ul style="list-style-type: none">• ESCO WAY image shown with breather. Comes standard with NPT male threads for optional 2 micron breather or adapter for closed loop systems.• Decals included to mark running and idle oil levels• Combine any two or more OLI's to reach your height requirements, utilizing a simple 1/2" NPT coupling.

OIL SIGHT GLASS & LEVEL MONITOR

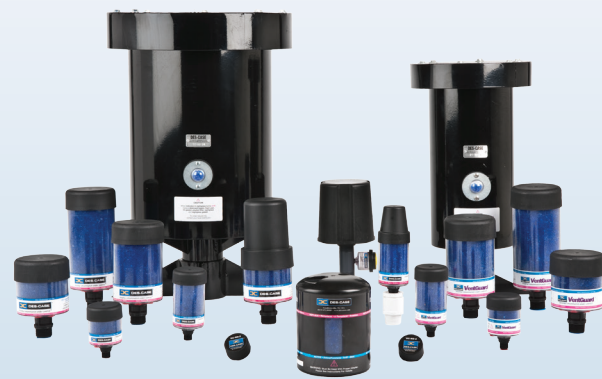
All in One – Inspect, Analyze, Remove Contaminants and Monitor Oil Levels



Outside Diameter	1.75"
Length	3", 6", 9", 12", 15", 18", 24"
Operating Range	-40° F to 200° F Maximum Pressure up to 65 PSI
Specifications	<ul style="list-style-type: none">• Commercial grade acrylic• Brass drain valve• Stainless steel hardware available• 2 micron breather included• Decals included to mark running and idle oil levels• Available in dual port version with a second 3/8" NPT side port to take oil samples

BREATHERS

The First Line of Defense against Contamination



Desiccant breathers are a vital step in contamination control. As most machines are designed to “breathe”, protecting the source of air flow from moisture and particulate contamination is extremely valuable for front-end protection and reliability optimization. Des-Case desiccant breathers help sustain desired cleanliness levels by removing even minute particulate matter.

BREATHER PRODUCTS

Keeping Moisture and Contaminants out of Oil

STANDARD DISPOSABLE BREATHERS



- Intermittent operations
- Transformers
- Storage
- Tanks
- Totes
- Hydraulics

EXTENDED STEEL BREATHERS



- Storage Tanks
- Wind Turbines
- Large Gearboxes/Hydraulics
- Oil Misting
- Remote Applications

HYBRID BREATHERS



- Gearboxes and other low-flow applications
- High-humidity applications
- Washdowns
- Intermittent operations

EXTREME DUTY BREATHERS



- Harsh environments
- Mobile equipment
- Nautical applications
- High vibration/impact

REBUILDABLE STEEL BREATHERS



- Hydraulic reservoir
- Bulk oil storage
- Diesel tank storage
- Chemical/harsh environments
- High-flow applications

NON-DESICCANT BREATHERS



- Low humidity applications
- Arid, high dust environments
- Applications that create “oil misting”

FLUID HANDLING

Proactive Approach to Contamination Control



Actively filtering lubricants can dramatically improve industrial equipment performance, preventing production downtime and emergency machinery repair costs. Des-Case fluid handling products will ensure the equipment performs to design specifications, with a wide array of customizable fluid handling solutions.

LUBRICATION SERVICES



ESTABLISHING BEST PRACTICE

Esco's STLE Certified Lubrication Specialists are available to assess, design and implement a lubrication program customized for your facility. Once established, these programs will greatly reduce equipment downtime and improve reliability.

SURVEYS

On-site surveys of your equipment to identify problem areas and available solutions.

TRAINING

STLE Certified instructors can train your staff on various lubrication and equipment reliability subjects, customized to meet your requirements.

AREAS OF EXPERTISE

- Proper Lubricant Selection
- Storing, Handling and Managing Lubricants
- Oil Sampling and Analysis
- Maintaining and Monitoring ideal oil levels
- Contamination Control
- Oil Filtration

ESCO - SERVICE & SOLUTIONS

We pride ourselves on our commitment to customer service. With decades of experience, knowledgeable staff and access to industry experts, Esco will work hand-in-hand with customers to find the right solutions for you.



SILCONE PRODUCTS



**Authorized Distributor of
Dow Corning Products**

SILICONE SEALANTS

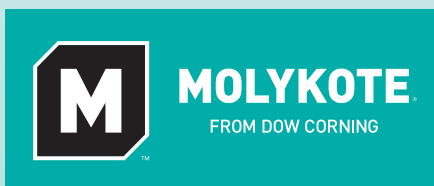
Silicone-based Dow Corning sealants last longer and are more versatile than most organic polymer sealants. They are durable, one-part RTV sealants; cure at room temperature to a tough, rubbery solid with exceptional performance characteristics; and meet a wide variety of your industrial bonding and sealing needs.

REPACKAGED SILICONE FLUID

Esco Products, Inc. supplies pure Silicone Fluid (Polydimethylsiloxane) in packaging to fit your operation. When standard packaging options are too large or inconvenient in some other way, we will supply the product in the quantity and containers you specify. Esco stocks a variety of containers sizes and a wide range of viscosities.

SPECIALTY LUBRICANTS

**Lubrication Solutions that Reduce Friction and Wear,
Protect Against Corrosion and Dissipate Heat**



**Industrial Assembly and
Maintenance Lubrication**



Heat Transfer Fluids

ANTI-SEIZE PASTES

High levels of lubricating solids in oil for high loads.

LUBRICATING OILS AND DISPERSIONS

Synthetic or mineral blends with special additives.

LUBRICATING SOLIDS AND POWDERS

Specialized additives for industrial friction control.

INDUSTRIAL GREASES

Semi-solid lubricants for severe-duty industrial use.

ANTI-FRICTION COATINGS

Long-lasting dry-film bonded lubrication.

SILICONE COMPOUNDS

Grease-like materials for sealing and lubricating.

DOWFROST™

Industrial inhibitor packages that are designed to prevent corrosion and are widely used for closed-loop, water-based HVAC, process heating and cooling, and food industry applications. The inhibitors are easily maintained, long lasting and can be replenished, which means intervals between fluid change-outs are extended and fluid expense is minimized.

DOWTHERM™

Thermal fluids that are either organic synthetic or inhibited glycol-based. There are various grades available, each formulated from a different base chemistry to provide the right heat transfer properties for your applications.

SYLTHERM™

Low-viscosity silicone fluids that offer excellent heat transfer performance and long service life. They are designed for high and low liquid phase heat transfer mediums and offer low odor and toxicity. The initial cost of silicone fluids may be more expensive than synthetic organic fluids, but silicone fluids often have a lower operating cost because they do not degrade like other fluids or require top-off fills.



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