



FILTRATION PRODUCTS

SOLUTIONS FOR TOMORROW'S CHALLENGES





Applications:

- Conditioning lubricants already in use
- Filtering new oil to meet a target cleanliness standard
- Flushing reservoirs to clean out any unwanted contaminants
- Transferring new oils from bulk drums to storage tanks or system reservoirs

Benefits:

- Reduce maintenance, operating, and downtime costs
- High efficiency, high capacity, fine filtration
- Extending the life expectancy of your assets
- Reduction in energy costs
- Going green by extending the life of your lubricants
- Reduced consumption and disposal costs

One of the six tenants of Lubrication Management Best Practices is ensuring new and in-service lubricants are applied in the right condition. We know the lubricant is part of the design criteria of the equipment and Original Equipment Manufacturer's (OEM's) outline specific target cleanliness levels of lubricants to maximize the equipment life expectancy. Unfortunately, new lubricants may not meet the required target cleanliness code and should be filtered prior to being put into service.

Whether you are filtering new oils or reducing contamination levels in service, Trico can assist you with our comprehensive line of filtration solutions. Not only will you increase your equipments' reliability by employing Trico's filtration solutions, you will see a reduction in overall maintenance costs.

Heavy-duty. High-efficiency. Portable.

DRUM PUMP FILTRATION SYSTEM

Motor Adapter

Allows for easy transfer of motor to other Drum Pump Filtration Systems

Differential Pressure Gauges

Indicates when elements need to be changed

Rubber Dust Cap

Prevents contaminants from entering the nozzle when not in use

Spin-On Filter

Standard with 10 micron absolute Beta >200 spin-on filter

Ground Lead

Prevents potential sparking and static build up between conductive equipment by hose grounding structures

Dispensing Nozzle

Provides continuous flow and safe lubricant transfer

Hose

Heavy-duty reinforced clear PVC

Pump Tube

Capable of fitting containers up to 39"

Bung Adapter

Includes sealing bung adapter (not shown in photo)



Patent Pending



P/N 30018



P/N 30019



P/N - 30017

Ideal for filtering 55-gallon drums

P/N - 30018 (Electric Motor)

P/N - 30019 (Pneumatic Motor)

Specifications:

P/N - 30017 (Tube Assembly)

Type	Seal-less/Centrifugal
Material	Stainless Steel 316
Tube Length	39"
Maximum Temperature	180°F (82°C)
Discharge Nozzle	3/4"
Discharge Line	1" Non-Collapsible PVC
Hose Line Length	6'
Filter Media	10 Micron Absolute Beta >200
Replace Filter Media	20 PSI Differential

NOTE: The Drum Pump Filtration System requires spin-on filters in chart Hand-Held & Drum Pump Filtration Filter Media on Page 8.

Specifications:

P/N - 30018 (Electric)

Motor	1.10 HP @ 10,000 RPM
Maximum Viscosity	1540 cSt @ 40°C
Flow Rate (Max)	6.8 GPM
Electric Motor Rating	110V 50-60 Hz, 8.5 A

Specifications:

P/N - 30019 (Pneumatic)

Motor	3/4 HP @ 8,000 RPM
Maximum Viscosity	70 cSt @ 40°C
Flow Rate (Max)	4.5 GPM
Inlet Pressure	100 PSI max @ 28 CFM
Stall Pressure	50 PSI
Air Inlet Connection	1/4" NPT Female

HIGH-VISCOSITY HAND-HELD SYSTEM



Oil Sampling Ports

Two sampling ports available to monitor condition of oil

Differential Pressure Gauges

Indicates when elements need to be changed

FRL Filter

Removes moisture and debris from air line to prevent premature wear and failure (pneumatic motor version only - not shown in photo)

Gear Pump or Pneumatic Motor

Industrial quality for long life

Compact Frame

Lightweight design provides flexibility to service equipment located in hard to reach areas

Dual Filters

Two-stage filtration for long element life and pump protection

Hoses

Heavy-duty reinforced clear PVC

P/N - 36971 (Electric)

P/N - 36934 (Pneumatic)

Hand-held, portable unit ideal for hard to reach places and applications with 3-50 gallon reservoirs.

NOTE: The High-Viscosity Hand-Held System requires spin-on filters in chart Hand-Held & Drum Pump Filtration Filter Media on Page 8.

Specifications:

P/N - 36971 (Electric)

P/N - 36934 (Pneumatic)

	Industrial Grade Gear Pump	Pneumatic Driven Industrial Gear Pump
Pump Type	Industrial Grade Gear Pump	Pneumatic Driven Industrial Gear Pump
Flow Capacity	1 GPM	1 GPM
Gear Pump Speed	1725 RPM	Variable up to 3000 RPM
Maximum Inlet Vacuum	15" of Mercury	15" of Mercury
Hose Sizing	.75" Inlet @ 6' Long/1.0" Outlet @ 6' Long	.75" Inlet @ 6' Long/1.0" Outlet @ 6' Long
Max. Operating Temperature	110°F Continuous ~ 150°F Limited Use	110°F Continuous ~ 150°F Limited Use
Pump By-Pass	85 PSI	85 PSI
Filter By-Pass	43 PSI	43 PSI
Maximum Viscosity	1600 cSt @ 40°C	1600 cSt @ 40°C
Seal and Gasket Material	Viton®	Viton®
Electrical Service Required	115 Volts, 10 Amps, Single Phase, 60 Hz	N/A
Air Inlet Connection	N/A	1/4" NPT Female
Max. Operating Pressure	N/A	100 PSI
Weight	50 lbs.	49 lbs.
Dimensions	27"W x 13"D x 17"H	27"W x 13"D x 17"H

HIGH-VISCOSITY PORTABLE CART SYSTEM

P/N - 36970 *(Electric)*

P/N - 36933 *(Pneumatic)*

Portable filtration cart that can service multiple pieces of equipment

By-Pass Valve

Allows transfer of oil without filtering

Oil Sampling Ports

Two sampling ports available to monitor condition of oil (not shown in photo)

Quad Filters

Four filter elements for increased holding capacity

FRL Filter

Removes moisture and debris from air line to prevent premature wear and failure (pneumatic motor version only - not shown in photo)



Heavy Duty Cart

Rugged and built to last

Differential Pressure Gauges

Indicates when elements need to be changed

Hose & Wand Assembly

Heavy steel wire reinforced clear PVC hoses with 3' long metal wands

Industrial Strength Tires

Wide tires capable of getting over large grate gaps

Drip Pan

Keeps work area safe and clean

Specifications:

P/N - 36970 *(Electric)*

P/N - 36933 *(Pneumatic)*

	P/N - 36970 <i>(Electric)</i>	P/N - 36933 <i>(Pneumatic)</i>
Pump Type	Industrial Grade Gear Pump	Pneumatic Driven Industrial Gear Pump
Flow Capacity	4 GPM	3 GPM
Gear Pump Speed	1725 RPM	Variable up to 3000 RPM
Maximum Inlet Vacuum	8" of Mercury	8" of Mercury
Hose Sizing	1" Inlet and Outlet @ 6' Long	1" Inlet and Outlet @ 6' Long
Max. Operating Temperature	110°F Continuous ~ 150°F Limited Use	110°F Continuous ~ 150°F Limited Use
Pump By-Pass	105 PSI	105 PSI
Filter By-Pass	43 PSI	43 PSI
Maximum Viscosity	1600 cSt @ 40°C	1600 cSt @ 40°C
Seal and Gasket Material	Viton®	Viton®
Electrical Service Required	120 Volts, 20 Amps, Single Phase, 60 Hz	N/A
Air Inlet Connection	N/A	1/4" NPT Female
Max. Operating Pressure	N/A	100 PSI
Weight	140 lbs.	156 lbs.
Dimensions	28"W x 21"D x 48"H	28"W x 21"D x 48"H

LOW-VISCOSITY HAND-HELD SYSTEM

Oil Sampling Ports

Two sampling ports available to monitor condition of oil

Differential Pressure Gauges

Indicates when elements need to be changed

Dual Filters

Two-stage filtration for long element life and pump protection



Bronze Internal Helical Gear Pump

Industrial quality for long life

Compact Frame

Lightweight design provides flexibility to service equipment located in hard to reach areas

Hoses

Heavy-duty reinforced clear PVC (not shown in photo)

P/N - 36994

Hand-held, portable unit ideal for hard to reach places and applications with 3-50 gallon reservoirs.

NOTE: The Low-Viscosity Hand-Held System requires spin-on filters in chart Hand-Held & Drum Pump Filtration Filter Media on Page 8.

Specifications:

Pump Type	Bronze Internal Helical Gear Pump
Flow Capacity	5.5 GPM
Electric Motor Rating	1/2 HP @ 1750 RPM
Maximum Inlet Vacuum	15" of Mercury
Hose Sizing	.75" Inlet @ 6' Long/1.0" Outlet @ 6' Long
Max. Operating Temperature	150°F (65°C)
Pump Pressure Relief	50 PSI
Filter By-Pass	43 PSI
Maximum Viscosity	430 cSt @ 40°C
Seal and Gasket Material	Mechanical - static
Electrical Service Required	115 Volts, 8.8 Amps, Single Phase, 60 Hz
Suction/Lift	20 ft
Weight	47 lbs.
Dimensions	11"W x 20"D x 12"H

LOW-VISCOSITY PORTABLE CART SYSTEM

By-Pass Valve

Allows transfer of oil without filtering

Oil Sampling Ports

Two sampling ports available to monitor condition of oil

Manifold System

Encompasses valves and plumbing in one location

Dual Filters

Two-stage filtration for long element life and pump protection

Industrial Strength Tires

Wide tires capable of getting over large grate gaps



Heavy Duty Cart

Rugged and built to last

Pressure Relief Valve

Prevents over pressurizing and damage to pump, hoses, and filter

Check Valve

Prevents fluid back flow when pumping vertically

Differential Pressure Gauges

Indicates when elements need to be changed

Hose & Wand Assembly

Heavy steel wire reinforced clear PVC hoses with 3' long metal wands (not shown in photo)

Drip Pan

Keeps work area safe and clean

Specifications:

Pump Type	Steel Internal Gear Pump
Flow Capacity	14 GPM
Electric Motor Rating	1-1/2 HP @ 1750 RPM
Maximum Inlet Vacuum	8" of Mercury
Hose Sizing	1" Inlet and Outlet @ 6' Long
Max. Operating Temperature	150°F (65°C)
Pressure Relief	100 PSI
Filter By-Pass	43 PSI
Maximum Viscosity	430 cSt @ 40°C
Seal and Gasket Material	Mechanical - static
Electrical Service Required	115 Volts, 15.2 Amps, Single Phase, 60 Hz
Max. Filter Oper. Pressure	120 PSI
Weight	130 lbs.
Dimensions	28"W x 18"D x 48"H

P/N - 36989

Portable filtration cart that can service multiple pieces of equipment

NOTE: The Low-Viscosity Portable Cart System requires spin-on filters in chart Portable Cart Filter Media on Page 8.

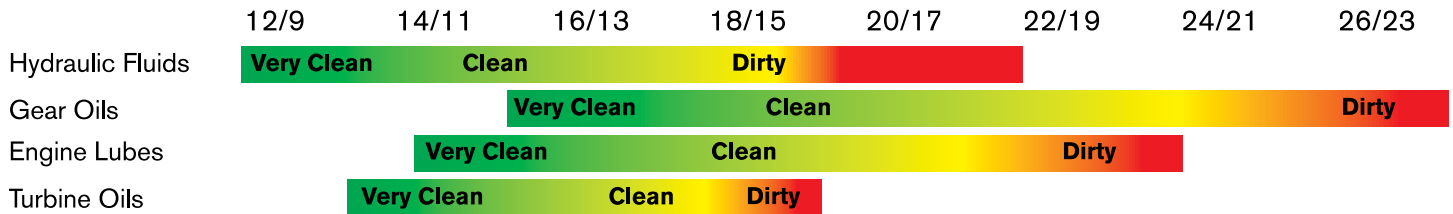
DO NOT use water filter element 36975 with the Low-Viscosity Portable Cart System as it is not compatible with the system, use water filter element 36995.

FILTER MEDIA

Selecting the Proper Filter Media

Filter selection is determined by what cleanliness level is recommended for your oil. The selection of the appropriate cleanliness level should be based on the operational and environmental conditions as well as recommended manufacturer specifications. Subjecting components to fluids with higher contamination levels may result in shorter component life. Consult your equipment manufacturer whenever possible.

Recommended Fluid Cleanliness ISO Levels



Hand-Held & Drum Pump Filtration Filter Media

	36976	36977	36978
Micron Rating	3	10	10
Filter Type	Particulate	Particulate	Water
Media Type	Synthetic Micro-Glass	Synthetic Micro-Glass	-
Diameter	3.7"	3.7"	3.7"
Length	8"	8"	8"
Thread	3/4-16 UN-2B	3/4-16 UN-2B	3/4-16 UN-2B
Beta Ratio	Beta 3 ≥ 200 Absolute	Beta 10 ≥ 200 Absolute	10 micron nominal
Dirt Holding Capacity	41 grams	48 grams	N/A
Water Holding Capacity	N/A	N/A	8 oz*

*Based on flow rate and viscosity

**Low-Viscosity Portable Cart system must use water filter element 36995. Water filter element 36975 is not compatible with this system.

***Particulate filter element 36972 is not compatible with the Low-Viscosity Portable Cart System. The Low-Viscosity Portable Cart must use 10 micron or above.

Portable Cart Filter Media

	36972***	36973	36974	36975**	36995
Micron Rating	3	10	20	10	25
Filter Type	Particulate	Particulate	Particulate	Water	Water
Media Type	Synthetic Micro-Glass	Synthetic Micro-Glass	Synthetic Micro-Glass	-	Synthetic Micro-Glass
Diameter	5"	5"	5"	5"	5"
Length	11"	11"	11"	11"	11"
Thread	1 1/2-16 UN-2B	1 1/2-16 UN-2B	1 1/2-16 UN-2B	1 1/2-16 UN-2B	1 1/2-16 UN-2B
Beta Ratio	Beta 3 ≥ 200 Absolute	Beta 10 ≥ 200 Absolute	Beta 20 ≥ 200 Absolute	10 micron nominal	Beta 25 ≥ 200 Absolute
Dirt Holding Capacity	102 grams	120 grams	125 grams	N/A	N/A
Water Holding Capacity	N/A	N/A	N/A	16 oz*	23 oz*

VISCOSITY

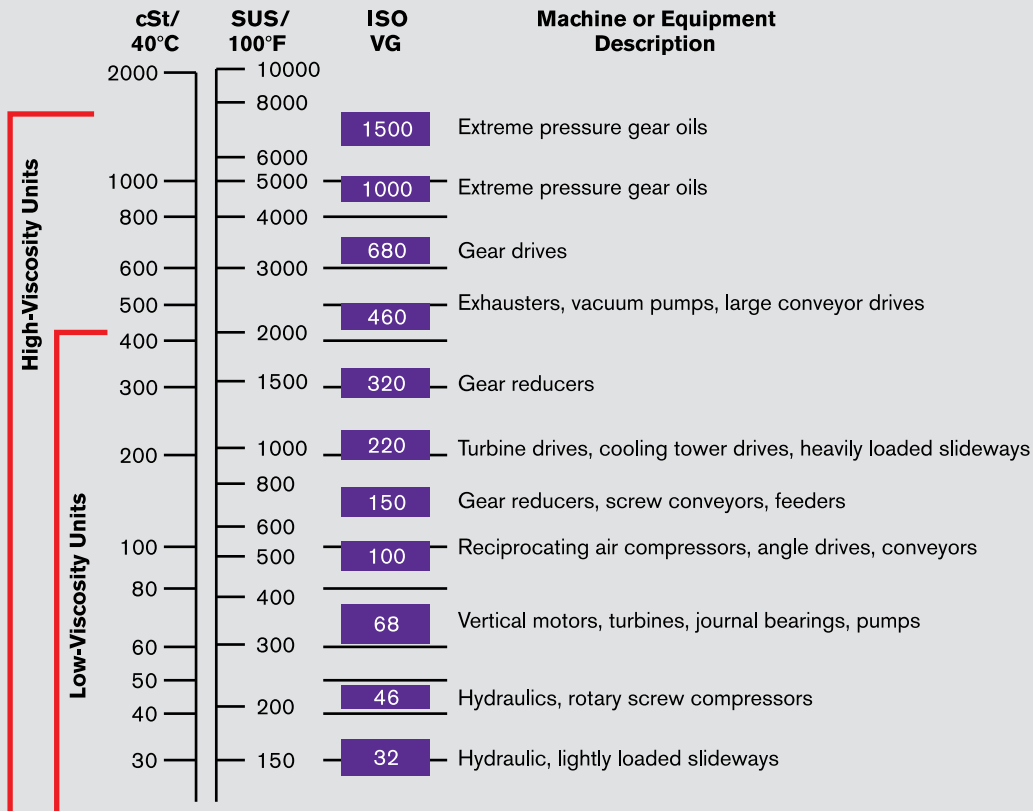
Viscosity Range

Trico's High-Viscosity Filtration Systems are specifically designed for high viscosity fluids, such as gear oils, and can filter up to 1600 cSt @ 40°C.

Fluid Compatibility

Trico's Filtration Products are compatible with most petroleum based oils.

- Hydraulic Oils
- Gear Oils
- Turbine Oils
- Transformer Oils
- Motor Oils



The chart above reflects operating range for filtration systems with oil temperatures at 40°C for cSt and 100°F for SUS.

Need help with fluid compatibility questions? Give us a call at 262.691.9336.