Lumax Pumps - Chemical Compatibility Chart

LX-1382-20 - Diaphragm Pump Kit, 12VDC, for DEF/Urea/AdBlue, 20 ft. Hose

Caution: The Materials List below is to be referred for Guidance only in selecting Equipment for Appropriate Chemical Compatibility.

ALWAYS Test your Equipment under the Specific Conditions of your Application before Permanent Installation. Ratings of Chemical

Behavior listed in this Manual apply at a 48 Hour Exposure Period. Lumax has No Knowledge of Possible Effects beyond this Period. All

Recommendations are Based on Room Temperature (72°F/22°C) Exposure. Compatibility Results may deviate from these

Recommendations at Elevated Temperatures. Recommendations are based on Presence of Listed Chemical Only. Mixtures containing more
than one Chemical can greatly affect Chemical Compatibility. Polypropylene Products and Components should not be used with Low Flash
Point Chemicals, regardless of Chemical Compatibility Results. Failure, Improper Selection, or Improper Use of the Products referred to and
described herein or related items can cause Severe Personal Injury or Property Damage. This Document provides Product Options for
further Investigation by Users having Technical expertise. It is Important that you Analyze all Aspects of your Application and Review the
information concerning the Product or System.

Ratings: Chemical Effect Good Not Recommended

Chemical	
Acetaldehyde	
Acetic Acid 20-50%	
Acetic Anhydride	
Acetone	
Alcohol: Amyl	
Alcohol: Benzyl	
Alcohol: Butyl	
Alcohol: Diacetone	
Alcohol: Ethyl (Ethanol)	
Alcohol: Hexyl (1-Hexanol)	
Alcohol: Isobutyl	
Alcohol: Isopropyl	
Alcohol: Methyl (Methanol)	
Alcohol: Propyl	
Aluminum Sulfate	
Ammonia, Anhydrous	
Ammonia Liquids	
Ammonium Hydroxide	
Anti-Freeze (Alcohol Base)	
Anti-Freeze (Glycol Base)	
Benzene	
Benzoic Acid	
Bleach Solutions	
Boric Acid - 30%	
Brake Fluid (Hexylene Glycol)	
Calcium Carbonate	
Calcium Chloride	
Calcium Hypochlorite - 20%	
Calcium Sulfate	
Chlorine, Wet	
Chlorox	
Citric Acid	
Copper Chloride	
Copper Sulfate	
Detergent Solutions	
Diesel Oil (Fuel ASTM #2)	
Ethyl Acetate	
Ethylene Glycol	
Formaldehyde	
Formic Acid	

Fruit Juices Fuel Oils (ASTM #1 thru #9) Gasoline (Unleaded) Gasoline (Petrol) Glycerol (Glycerine) Grease Heptane (Brake Cleaner) Hexane Hexyl Alcohol (Hexanol) Hydraulic Oil Hydrochloric Acid - 20% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Wineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol	Chemical	
Gasoline (Unleaded) Gasoline (Petrol) Glycerol (Glycerine) Grease Heptane (Brake Cleaner) Hexane Hexyl Alcohol (Hexanol) Hexylene Glycol (Brake Fluid) Hydraulic Oil Hydrochloric Acid - 20% Hydrogen Peroxide - 30% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Fruit Juices	
Gasoline (Petrol) Glycerol (Glycerine) Grease Heptane (Brake Cleaner) Hexane Hexyl Alcohol (Hexanol) Hydraulic Oil Hydrochloric Acid - 20% Hydrogen Peroxide - 30% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Fuel Oils (ASTM #1 thru #9)	
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Hexyl Alcohol (Hexanol) Hexylene Glycol (Brake Fluid) Hydraulic Oil Hydrochloric Acid - 20% Hydrochloric Acid - 30% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquers Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Wegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Heptane (Brake Cleaner)	
Hexylene Glycol (Brake Fluid) Hydraulic Oil Hydrochloric Acid - 20% Hydrochloric Acid - 30% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Hexane	
Hydraulic Oil Hydrochloric Acid - 20% Hydrochloric Acid - 30% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Hexyl Alcohol (Hexanol)	
Hydrochloric Acid - 20% Hydrochloric Acid - 30% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Hexylene Glycol (Brake Fluid)	
Hydrochloric Acid - 30% Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Hydraulic Oil	
Hydrogen Peroxide - 30% Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Hydrochloric Acid - 20%	
Isobutyl Alcohol Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Hydrochloric Acid - 30%	
Isopropyl Alcohol Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Hydrogen Peroxide - 30%	
Jet Fuels (JP1 to JP6) Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Isobutyl Alcohol	
Kerosene Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Isopropyl Alcohol	
Lacquers Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Jet Fuels (JP1 to JP6)	
Lacquer Solvents Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Kerosene	
Lactic Acid Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Lacquers	
Lubricating Oils (Petroleum) Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Lacquer Solvents	
Methyl Ethyl Ketone Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine)	Lactic Acid	
Mineral Oil (Petroleum) Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Lubricating Oils (Petroleum)	
Motor Oil Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Methyl Ethyl Ketone	
Naphtha Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Mineral Oil (Petroleum)	
Nitric Acid - 50% Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Motor Oil	
Oils, Animal Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Naphtha	
Oils, Mineral Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Nitric Acid - 50%	
Oils, Vegetable Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Oils, Animal	
Oxalic Acid Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Oils, Mineral	
Petroleum (Crude Oil) Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Oils, Vegetable	
Phosphoric Acid - 50% Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Oxalic Acid	
Photographic Developer Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Petroleum (Crude Oil)	
Potassium Chloride Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Phosphoric Acid - 50%	
Potassium Hydroxide (Caustic Potash) Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Photographic Developer	
Propylene Glycol Salt Water (Brine) Sea Water (Brine)	Potassium Chloride	
Salt Water (Brine) Sea Water (Brine)	Potassium Hydroxide (Caustic Potash)	
Sea Water (Brine)	Propylene Glycol	
, ,	Salt Water (Brine)	
Silicone Oils	Sea Water (Brine)	
OHIOOTIO OHIO	Silicone Oils	

Chemical	
Soap Solutions	
Soda Ash (Sodium Carbonate)	
Sodium Bicarbonate	
Sodium Chlorate	
Sodium Chloride	
Sodium Chromate	
Sodium Hydroxide - 50%	
Sodium Hypochlorite (Bleach)	
Sodium Nitrate	
Sodium Nitrite	
Sodium Peroxide	
Sodium Phosphate	
Sodium Silicates	
Sodium Sulfate	
Sodium Sulfide	
Sodium Sulfite	
Stearic Acid	
Stoddard Solvent	
Sulfuric Acid - 75%	
Tallow	
Toluene, Toluol	
Transformer Oil	
Transmission Fluid (Type A)	
Trichlorethane	
Trichlorethylene	
Turpentine	
Urea/DEF/Ad Blue	
Varnish	
Vegetable Juices	
Vegetable Oils	
Vinegar	
Water, Distilled (Deionized)	
Water, Fresh	
Wines	
Xylene	
Zinc Chloride	
Zinc Sulfate	