

# Lutz Stainless Steel Pump Tube

## For flammable and aggressive liquids

### Sealless (MSL) or with Mechanical Seal (MMS)

#### Applications

The robust Lutz pump tube with mechanical seal or sealless is suitable for pumping clean and dirty, thin-bodied and slightly viscous, aggressive and non-aggressive, flammable and non-flammable liquids out of drums and small or large containers. The pump tube is non-lubricated, thus preventing contamination of the liquids pumped.

#### Structure and function (MMS-SS)

Lutz pump tubes are immersible centrifugal pumps. The drive shaft of this pump tube is sealed by a single-acting mechanical seal (MS) and two shaft seals located behind it, making a robust sealing system. The pump tube must not be allowed to run dry.

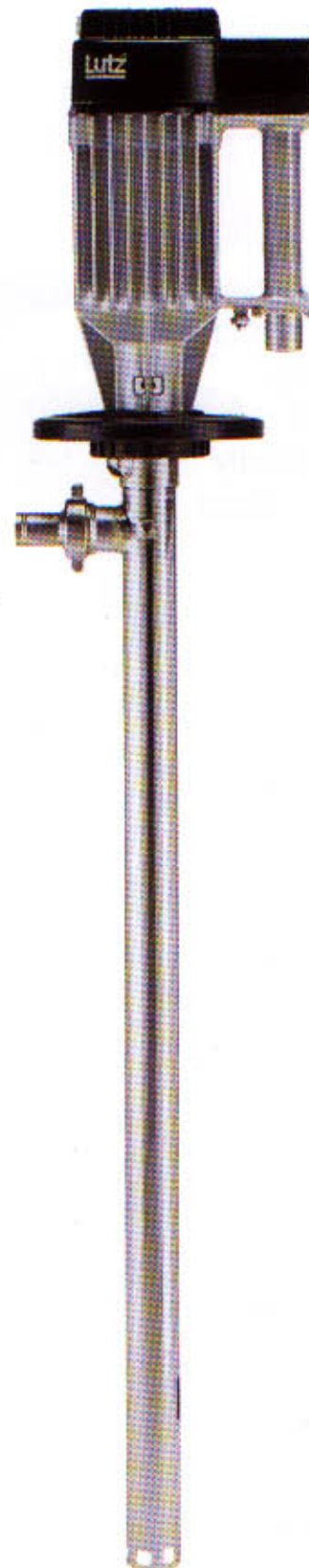
#### Structure and function (MSL-SS)

Lutz pump tubes are immersible centrifugal pumps. The drive shaft of this pump is not sealed. The bearing housing insert behind the impeller is designed to prevent the pumped liquid from rising between the shaft and the inner tube. This insert guides the liquid which penetrated between the drive shaft and the shaft bearing back into the container being drained.



The pump tube is "Zone 0" approved in combination with the original Lutz motors Silver Star / MD-1 / MD-2 in accordance with standards for use in hazardous locations.

**Picture shows:**  
Pump tube with motor Silver Star ME I 6.



Type	MMS-SS (Mechanical Seal)	MSL-SS (Sealless)
<b>Wetted parts</b>		
Housing:	Stainless Steel (316)	Stainless Steel (316)
Seals:	Viton	None
Mechanical seal:	Carbon, Ceramic, Viton, Stainless Steel (316)	None
Bearings:	Carbon	Carbon
Drive shaft:	Stainless Steel (316)	Stainless Steel (316)
<b>Examples of liquids:</b>	Gasoline, thin-bodied Oils, Solvents, Chlorine Carbon Hydrogens, Alcohols, Amines, Benzoles, Phenoles, Toluol, Xylol, Fruit Juices, Paints and Inks, Vegetable Oils etc.	Alcohols, Aceton, Acetonitrile, Acetates, Ether, Diethanolamine, Freon, Frigen, Methylene Chloride, Dimethyl Phthalate, Dioxane, Diethylamine, Pyridine etc.
<b>Type of impeller:</b>	axial-flow (rotor) or radial-flow (L) Material: ETFE	axial-flow (rotor) or radial-flow (L) Material: ETFE

#### Immersion depths:

27", 39", 47", 63"  
Special immersion depths on request.

#### Note:

Axial-flow rotor for high delivery rate and low delivery head. Radial-flow impeller for low delivery rate and high delivery head.

**For correct bonding and grounding see page 18.**