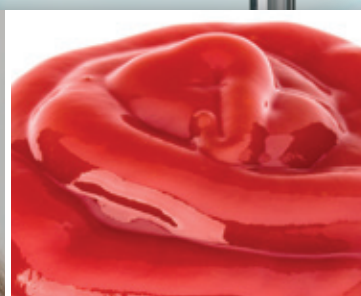




# Lutz Drum Pumps and Flow Meters for the Food, Pharmaceutical and Cosmetics Industry Certified Solutions

**NEW:** Eccentric Screw Pumps B70V SanitaryPlus



**Safety is our Concern**

# Lutz Pumps and Flow Meters for the Food, Pharmaceutical and Cosmetics Industry

During food production, raw materials and finished food products come into contact with various objects and materials, and must be suitable for this. This also includes devices and machine parts for commercial food production. These are defined as "food contact materials" and are specified in food product legislation.



## Regulation (EC) 1935/2004

Pumps and flow meters in contact with food products are also considered to be food contact materials and are thus subject to strict legal regulations. In accordance with EU Regulation no. 1935/2004, these are to be produced in accordance with good manufacturing practice and may not release substances which pose a hazard to the health, cause unacceptable changes to the food products or impair their odour or taste. Lutz drum pumps, flow meters and accessories meet the requirements of Regulation (EC) 1935/2004 and bear the "glass and fork" symbol to indicate their suitability for foodstuffs. The associated Regulation (EC) 10/2011 on plastics in contact with foodstuffs lists the migration values of chemicals which may not be exceeded in defined reagent tests.



## FDA Approval

The Food and Drug Administration in the USA certifies materials and substances and also defines limit values for extractable substances which must be complied with, as is the case with elastomers for aqueous or fatty food products (21 CFR 177.2600).



## USP – U.S. Pharmacopeial Convention

The United States Pharmacopeial Convention, Inc. is a scientific nonprofit organization that sets standards for the identity, quality, and purity of medicines, food ingredients, and dietary supplements manufactured, distributed, and consumed worldwide. It provides documentary standards and reference materials to help manufacturers, suppliers, and regulators to safeguard the dietary supplement supply, and limit adulterants and contaminants.



## 3-A Sanitary Standard

Beyond the safety of the materials used, the 3-A Sanitary Standard places stringent design requirements calling for a hygienically flawless and easy-to-clean design. The new Lutz B70V SanitaryPlus pumps consistently meet the requirements for hygienic design and are certified in accordance with the current version of the "3-A Sanitary Standards for Centrifugal and Positive Rotary Pumps" and are thus equipped for the international market.

Lutz B70V SanitaryPlus pumps are consistently designed with manually detachable, threadless connections in areas coming into contact with liquids. They are quick and easy to dismantle for thorough cleaning and disinfection by hand or with tools such as a water stream or cleaning machines. All products covered in the product are easily accessible and visible.



## ATEX Directive

Pumps and flow meters from the PURE and Sanitary series are also available in an explosion-proof version in accordance with ATEX Directive 2014/34/EU. They are well-suited for pumping highly flammable liquids in food and beverage production, such as alcohols, essential oils and flavourings, as well as cleaning products and disinfectants used for cleaning purposes.

# The Production Range at a Glance



## Eccentric Screw Pumps **Lutz B70V SanitaryPlus**

- + Hygienically designed according to the latest 3-A standards
- + Easily accessible and inspectable components
- + Thread-free, manually detachable quick connections
- + Polished metal surface
- + Quick to dismantle, easy to clean
- + Also for alcoholic food products, cosmetics and pharmaceuticals and flammable cleaning products
- + For liquid foodstuffs and luxury foodstuffs, pharmaceutical substances and cosmetic products



**Eccentric Screw Pumps  
Lutz B70V SanitaryPlus**  
Page 4-15

**Suitable Accessories**  
Page 48-53



## Pumps and Flow Meters in **PURE Version**

- + Physiologically safe type
- + High surface quality
- + Food-safe connections
- + Also for alcoholic food products, cosmetics and pharmaceuticals and flammable cleaning products



**Pumps and Flow Meters  
in Pure Version**  
Page 16-47

**Suitable Accessories**  
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## Lutz B70V SanitaryPlus

Designed according to the latest standards for high demands of the food-, pharmaceutical and cosmetics industry

When using hygienic pumps, the operator expects besides a high system availability and low maintenance requirement an absolutely perfect hygienic and easy to clean design. The B70V SanitaryPlus here sets new standards with its one-piece joint-free drive shaft and consistently without threads in the hydraulic area. Only a few components reduce the assembly and dismantling times as well as the cleaning effort for approx. 80%.

**Our commitment:**  
To satisfy the high criteria and demands set by standards



## Hygienic aspect:

### Consequently realized

The new eccentric screw pump Lutz B70V SanitaryPlus was developed and designed for pumping liquid foodstuffs, pharmaceutical agents and cosmetic products from different vessels and containers. This new development strictly meets the constructive requirements of the hygienic design and is certified and approved according to the latest "3-A Sanitary Standards".

#### Benefits of the Lutz B70V SanitaryPlus

- No-thread-design in the hydraulic area
- One-piece drive shaft for perfect hygiene
- Long operating times due to contamination-proof and sterile pump design
- Delivery volume proportional to speed
- Temporary reversible conveying direction
- Continuous and low pulsation pumping, nearly independent from pressure- and viscosity fluctuations
- Stable suction- and pressure capacities
- Service-friendly
- Housing design, free of dead space for good flow properties
- Wetted surfaces with a polished finish prevent the accumulation of liquid and facilitate the cleaning

#### Versatile and variable:

With a flow rate of 12 to 75 l/min and an operating pressure of max. 10 bar, the Lutz B70V SanitaryPlus hygienic pump is suitable for pumping thin-bodied to highly viscous media.

The chosen immersion depth and the small immersion tube diameter ensure that drums, IBC containers and other commercially available containers are emptied safely and almost completely without residue from the top.



# Lutz Eccentric Screw Pumps

## Characteristics and Construction

All areas coming into contact with the liquid being pumped are equipped with manually detachable, non-threaded connections. The design is almost free of dead space, thus microbiological problems caused by germs and bacteria are practically impossible.

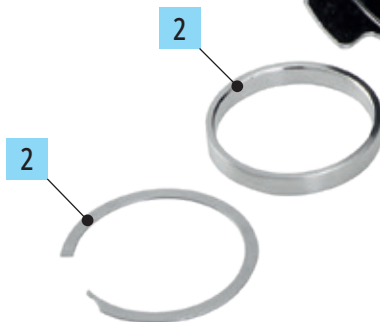
### Quick cleaning

For a fast and thorough cleaning and disinfection by hand or mechanically by means of water jets or cleaning machines, the Lutz B70V SanitaryPlus can be quickly and easily dismantled. All parts coming into contact with the liquid are easy accessible for inspection and service. This pump is a solution for application cases where the use of a CIP pump is technically impossible.

All parts coming into contact with the product are made of resistant stainless steel (1.4404/1.4462/1.4571), 3-A/FDA compliant plastics (PTFE) and elastomers (EPDM).



See the video now!



# Lutz B70V SanitaryPlus

Just a few components – minimum wear and fast to clean



#### 4 Improvement of anti-twist protection

Easy and fault-free assembly of the pump without special tools



#### 5 Housing design free of dead space

Microbiological problems caused by germs and bacteria are therefore practically impossible



#### 6 No-Thread-Design

One-piece drive shaft for perfect hygiene

Up to **80%**  
faster assembly/  
disassembly  
due to just a few  
components!

### High application possibility

The pump covers a wide range of applications in the Food- and Pharma-Industry due to the certification.

The user-friendly design and the easy cleaning make the pump very interesting for the chemical industry where requirements of the applications often change and therefore an easy cleaning is required.

#### 1 Smooth surface

Fast to clean (less than Ra 0,8 at product contacted surfaces) and thus protection of bacterial contamination

#### 2 Improved stator fixing

Easy assembly and change of the stator with locking pin and anti-twist protection

#### 3 Tri-Clamp connections

Hygienic and user-friendly Tri-Clamp connections acc. to DIN 32676 for easy assembly



Hygienic and without wear:

## Contact-free flow measurement

For the Lutz eccentric screw pumps a lifting device with integrated impulse sensor for indirect flow measurement was developed. The contact-free mode of measurement is very interesting for hygienic applications in the food-, pharmaceutical- and cosmetics industry, as well as for industrial applications with viscous, adhesive and solid containing liquids.

The time-consuming cleaning process of the flow meter system is not necessary and as experience has shown, conventional volumetric flow meters quickly come in these circumstances to their limit, while other measuring methods are often very complex and/ or are not suitable for mobile use.

The contact-free, indirect mode of measurement with impulse sensor from Lutz is a hygienic, wear-free and reliable option without direct contact with the liquid being pumped.

### Features and Benefits

- Compact and easy to handle unit for maximum mobility
- All live-/data elements on the motor-/lifting-device unit
- Pump tube can be detached from motor-/lifting-device with a quick-action coupling
- Pump tube without electronic components enables a thorough cleaning and disinfection also by means of water jets or in cleaning machines
- Easy handling and control with the Lutz operating unit with touch screen display and menu-navigation in plain text
- Can be combined with relay module RM10 and other modules of the Lutz flow meter programme

### Function

An impulse transmitter transfers magnetic impulses of the rotating motor shaft contact-free to the impulse sensor. The measured impulses are evaluated in the Lutz operating unit BE10 and appear on the display by means of the pre-determined calibration factor as transferred flow quantity.

### Order instructions for contact-free flow measurement






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# Lutz Eccentric Screw Pumps

## B70V-H-SR SanitaryPlus 12.1, 25.1, 50.1

Product detail		Pump tube				B70V-H-SR SanitaryPlus				
	Size		<b>12.1</b>	<b>25.1</b>	<b>50.1</b>					
	Seal	Mechanical seal (MS)	MS	MS	MS					
	Delivery rate*	up to l/min.	12	25	50					
	Delivery head*	up to bar	6	6	8					
	Temp. of medium	up to °C	100	100	100					
	Material outer tube		1.4404	1.4404	1.4404					
	Immersion tube diameter	mm	54	54	54					
	Pressure joint	Tri-Clamp	DN 50	DN 50	DN 50					
	Weight	kg	8	8	8					
	Length**	mm	1100	1100	1100					
	Stator EPDM Seal EPDM	Order-No.	-	-	<b>0174-548</b>					
	Stator PTFE Seal FPM	Order-No.	<b>0174-094</b>	<b>0174-194</b>	<b>0174-594</b>					
	Stator PTFE Seal EPDM	Order-No.	<b>0174-044</b>	<b>0174-244</b>	<b>0174-544</b>					
	<p>* Determined with water at 20 °C, three-phase motor (900 rpm)</p> <p>** Special length on request</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIB (B70V-H) and temperature class T4 at 40 °C ambient temperature or temperature class T3 at 60 °C ambient temperature</p>									
										
<b>Choice of motors</b>										
	<b>Universal motors non-ex. proof</b>	<b>MI 4</b>	<b>MI 4-E</b>	<b>MA II 3</b>	<b>MA II 5</b>	<b>MA II 7</b>				
	Type	500 W, 230 V	500 W, 230 V	460 W, 230 V	575 W, 230 V	795 W, 230 V				
	Protection type/Weight	IP 24 2.8 kg without speed controller	IP 24 2.8 kg with speed controller	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg				
	Order-No. (without low-voltage release)	<b>0030-000</b>	<b>0030-001</b>	<b>0060-000</b>	<b>0060-001</b>	<b>0060-002</b>				
	Order-No. (with low-voltage release)	-	-	<b>0060-008</b>	<b>0060-009</b>	<b>0060-010</b>				
	<b>Universal motors ex. proof</b>	<b>ME II 3</b>	<b>ME II 5</b>	<b>ME II 7</b>	<b>ME II 8</b>					
	Type	460 W, 230 V	580 W, 230 V	795 W, 230 V	930 W, 230 V					
	Protection type/Weight	IP 54 5.5 kg	IP 54 6.3 kg	IP 54 7.5 kg	IP 54 8 kg					
	Order-No. (with low-voltage release)	<b>0050-000</b>	<b>0050-001</b>	<b>0050-002</b>	<b>0050-042</b>					
	Order-No. (without low-voltage release)	<b>0050-016</b>	<b>0050-017</b>	<b>0050-018</b>	<b>0050-041</b>					
	<b>Compressed air motors</b>	<b>MD1xL</b>	<b>MD2xL</b>							
	Type	1000 W	1000 W							
	Operating pressure	6 bar	6 bar							
	Weight	1.0 kg	1.4 kg							
	Order-No.	<b>0004-725</b>	<b>0004-735</b>							

For sticky and hardening liquids please contact our Lutz head office to select the suitable pump.

# B70V-H-SR SanitaryPlus 12.1, 25.1 and 50.1

for viscosities from 1 - 100,000 mPas (Compressed air motors)  
1 - 30,000 mPas (Universal motors)

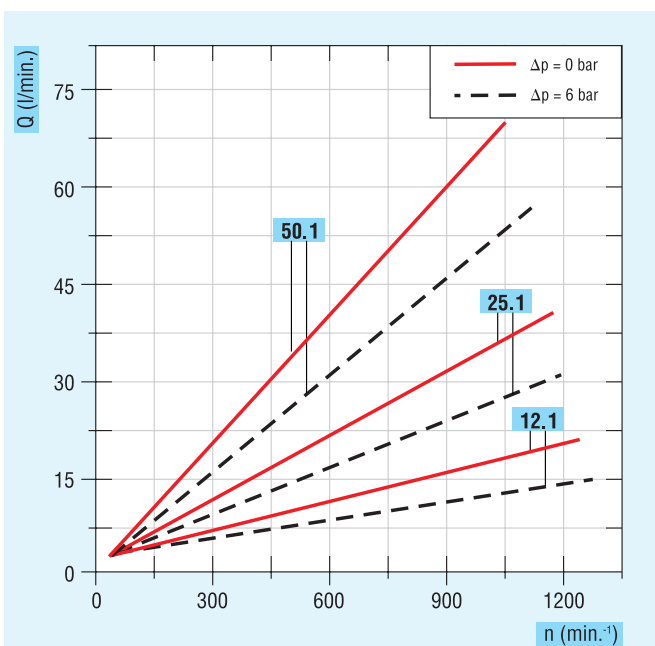
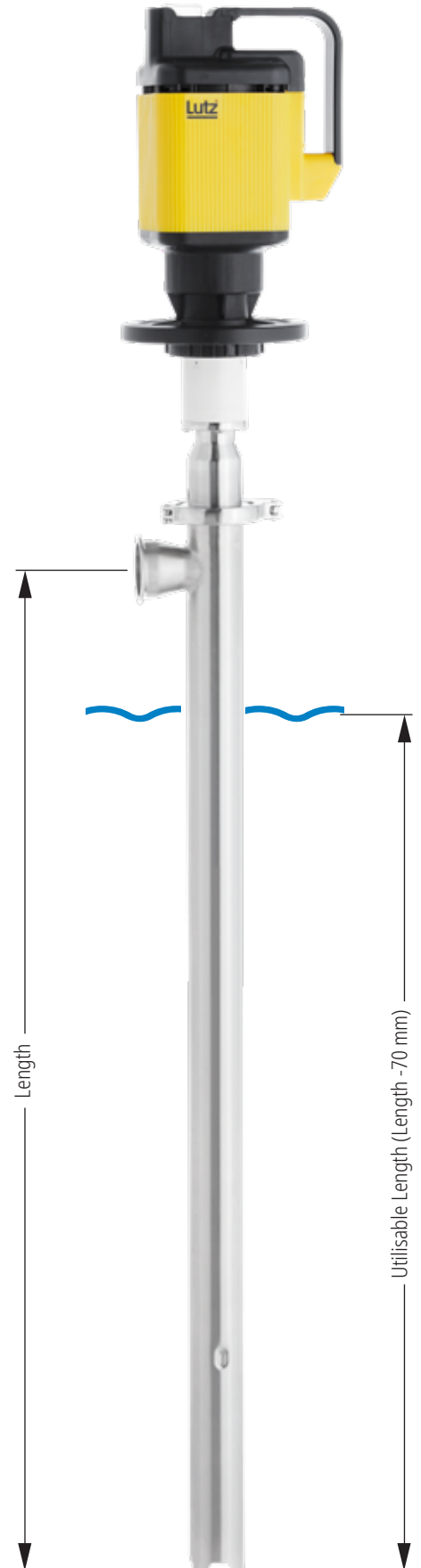
## Materials (coming into contact with the pumped medium):

Version:	B70V-H-SR SanitaryPlus 12.1/25.1/50.1
Housing:	SS (1.4404)
Rotor/Shaft:	SS (1.4571, 1.4462)
Seals:	EPDM, FPM
Mechanical seal:	SiC/carbon/EPDM (FPM), optional SiC/SiC/EPDM (FPM)
Stator material:	PTFE, EPDM (Size 50.1)

## Two motors for almost any requirement




### Motor: MD1xL / MD2xL

- » High performance class up to 1000 watts
- » High viscosity up to 100,000 mPas
- » Applicable oil-free



# Lutz Eccentric Screw Pumps

## B70V-H-D SanitaryPlus 12.1, 25.1

Product detail		Pump tube		B70V-H-D SanitaryPlus	
	Size		<b>12.1</b>		<b>25.1</b>
	Seal	Mechanical seal (MS)	MS		MS
	Delivery rate*	up to l/min.	12		25
	Delivery head*	up to bar	6		8
	Temp. of medium	up to °C	100		100
	Material outer tube		1.4404		1.4404
	Immersion tube diameter	mm	54		54
	Pressure joint	Tri-Clamp	DN 50		DN 50
	Weight	kg	8		8
	Length**	mm	1100		1100
	Stator PTFE	Order-No.	<b>0172-094</b>		<b>0172-194</b>
	Seal FPM		●		●
	Stator PTFE	Order-No.	<b>0172-044</b>		<b>0172-144</b>
	Seal EPDM		●		●
<p>* Determined with water at 20 °C, three-phase motor (900 rpm)</p> <p>** Special length on request</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIB (B70V-H) and temperature class T4 at 40 °C ambient temperature or temperature class T3 at 60 °C ambient temperature</p>					
					
<b>Choice of motors</b>					
	<b>Motore mit Schutzschalter</b>	<b>Für B70V-H-D SanitaryPlus - 12.1</b>		<b>Für B70V-H-D SanitaryPlus - 25.1</b>	
	Type:	0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.75 kW, 900 1/min.
	Protection type/Weight	IP 54 16 kg	IP 54 12 kg	IP 54 16 kg	IP 54 22 kg
	Order No.	<b>0172+802</b>	<b>0172+805</b>	<b>0172+808</b>	<b>0172-900</b>
	<b>Motore, explosionsgeschützt</b>	<b>Für B70V-H-D SanitaryPlus - 12.1</b>		<b>Für B70V-H-D SanitaryPlus - 25.1</b>	
Type:	0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.65 kW, 900 1/min.	
Identification	II 2 G Ex e II T3	II 2 G Ex e II T3	II 2 G Ex e II T3	II 2 G Ex e II T3	
Protection type/Weight	IP 55 19 kg	IP 55 17 kg	IP 55 22 kg	IP 55 20 kg	
Order No.	<b>0172-801</b>	<b>0172-804</b>	<b>0172-807</b>	<b>0172-810</b>	
<b>Motore mit Frequenzumrichter</b>	<b>Für B70V-H-D SanitaryPlus - 12.1</b>		<b>Für B70V-H-D SanitaryPlus - 25.1</b>		
Type:	0.55 kW, 0-900 1/min.		0.55 kW, 0-900 1/min.	0.75 kW, 0-900 1/min.	
Protection type/Weight	IP 55 16 kg		IP 55 16 kg	IP 55 22 kg	
Order No.	<b>0172-769</b>		<b>0172-769</b>	<b>0172-768</b>	
<b>Motore mit Kabelklemmkasten</b>	<b>Für B70V-H-D SanitaryPlus - 12.1</b>		<b>Für B70V-H-D SanitaryPlus - 25.1</b>		
Type:	0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.75 kW, 900 1/min.	
Protection type/Weight	IP 54 16 kg	IP 55 12 kg	IP 55 16 kg	IP 55 22 kg	
Order No.	<b>0172+803</b>	<b>0172+806</b>	<b>0172+809</b>	<b>0172-901</b>	

Drehstrommotore  
230/400 V, 50 Hz,  
RAL 9005,  
Energieeffizienzklasse  
IE 3 gemäß EU-Verord-  
nung 640/2009 und  
04/2014.  
Sonderspannungen,  
Frequenzen, Schutz-  
arten auf Anfrage.

# B70V-H-D SanitaryPlus 12.1, 25.1

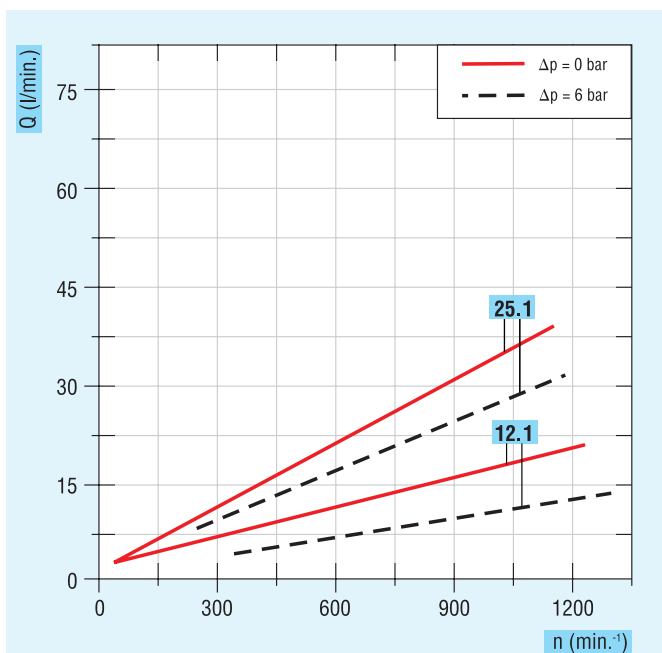
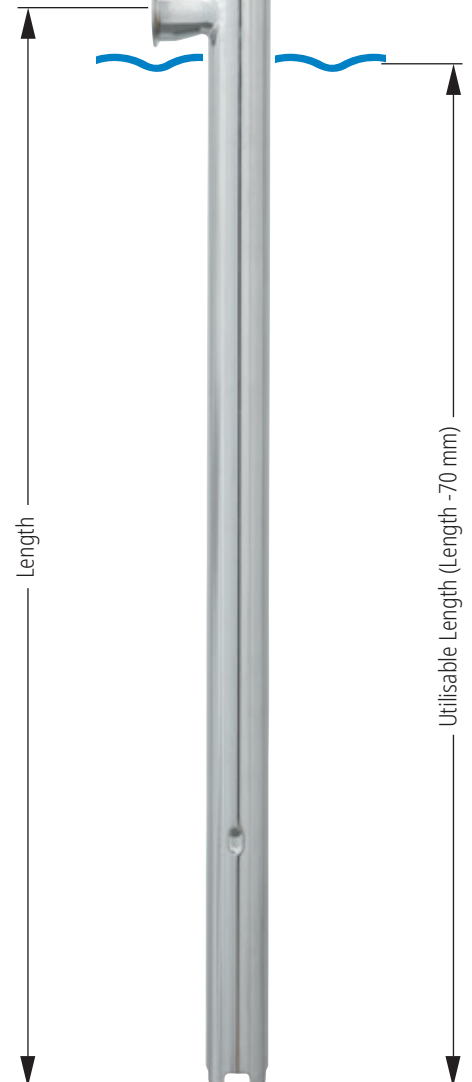
for viscosities up to 100,000 mPas

## Materials (coming into contact with the pumped medium):

Version:	B70V-H-D SanitaryPlus 12.1/25.1
Housing:	Stainless steel (1.4404)
Rotor/Shaft:	Stainless steel (1.4571, 1.4462)
Seals:	EPDM
Mechanical seal:	SiC/carbon/EPDM (FPM), optional SiC/SiC/EPDM (FPM)
Stator material:	PTFE, EPDM (Size 50.1)




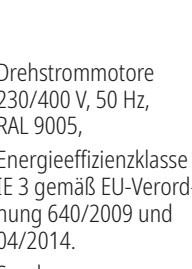
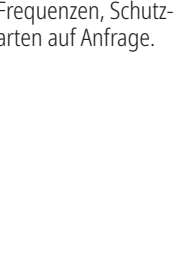



Equipped with mounting strap and motor quick coupling as standard.



# Lutz Eccentric Screw Pumps

## B70V-H-D SanitaryPlus 25.2, 50.1, 75.1

Product detail		B70V-H-D SanitaryPlus					
	Size		<b>25.2</b>		<b>50.1</b>		<b>75.1</b>
	Seal	Mechanical seal (MS)	MS		MS		MS
	Delivery rate*	up to l/min.	25		50		75
	Delivery head*	up to bar	10		8		6
	Temp. of medium	up to °C	100		100		100
	Material outer tube		1.4404		1.4404		1.4404
	Immersion tube diameter	mm	54		54		54
	Pressure joint	Tri-Clamp	DN 50		DN 50		DN 50
	Weight	kg	8		8		8
	Length**	mm	1100		1100		1100
	Stator EPDM Seal EPDM	Order-No.	-		<b>0172-548</b>		-
	Stator PTFE Seal FPM	Order-No.	<b>0172-294</b>		<b>0172-594</b>		<b>0172-584</b>
	Stator PTFE Seal EPDM	Order-No.	<b>0172-244</b>		<b>0172-544</b>		<b>0172-554</b>
	<p>* Determined with water at 20 °C, three-phase motor (900 rpm)</p> <p>** Special length on request</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIB (B70V-H) and temperature class T4 at 40 °C ambient temperature or temperature class T3 at 60 °C ambient temperature</p>						
							
<b>Choice of motors</b>							
	<b>Motore mit Schutzschalter</b>	<b>Für B70V-H-D SanitaryPlus - 25.2 und 50.1</b>			<b>Für B70V-H-D SanitaryPlus - 75.1</b>		
	Type:	0.75 kW 700 1/min.	1.1 kW 700 1/min.	1.1 kW 900 1/min.	1.5 kW 700 1/min.	1.5 kW 900 1/min.	
	Protection type/Weight	IP 54 18 kg	IP 54 22 kg	IP 54 34 kg	IP 54 34 kg	IP 54 34 kg	
	Order No.	<b>0172+814</b>	<b>0172+825</b>	<b>0172-902</b>	<b>0172-760</b>	<b>0172-904</b>	
	<b>Motore, explosionsgeschützt</b>	<b>Für B70V-H-D SanitaryPlus - 25.2 und 50.1</b>			<b>Für B70V-H-D SanitaryPlus - 75.1</b>		
	Type:	0.65 kW, 700 1/min.		0.95 kW, 900 1/min.		1.3 kW, 900 1/min. 1.9 kW, 900 1/min.	
	Identification	II 2 G Ex e II T3		II 2 G Ex e II T3		II 2 G Ex e II T3 II 2 G Ex e II T3	
	Protection type/Weight	IP 55 27 kg		IP 55 23 kg		IP 55 40 kg IP 55 52 kg	
Order No.	<b>0172-813</b>		<b>0172-816</b>		<b>0172-856 0172-857</b>		
	<b>Motore mit Frequenzumrichter</b>	<b>Für B70V-H-D SanitaryPlus - 25.2 und 50.1</b>			<b>Für B70V-H-D SanitaryPlus - 75.1</b>		
	Type:	0.75 kW 0-900 1/min.		1.1 kW 0-900 1/min.		1.5 kW, 0-900 1/min.	
	Protection type/Weight	IP 55 22 kg		IP 55 25 kg		IP 55 37 kg	
	Order No.	<b>0172-768</b>		<b>0172-767</b>		<b>0172-766</b>	
	<b>Motore mit Kabelklemmkasten</b>	<b>Für B70V-H-D SanitaryPlus - 25.2 und 50.1</b>			<b>Für B70V-H-D SanitaryPlus - 75.1</b>		
	Type:	0.75 kW 700 1/min.	1.1 kW 700 1/min.	1.1 kW 900 1/min.	1.1 kW 700 1/min.	1.5 kW 700 1/min.	1.5 kW 900 1/min.
	Protection type/Weight	IP 55 18 kg	IP 55 22 kg	IP 55 34 kg	IP 55 22 kg	IP 55 34 kg	IP 55 34 kg
	Order No.	<b>0172+815</b>	<b>0172+826</b>	<b>0172-903</b>	<b>0172+826</b>	<b>0172-761</b>	<b>0172-905</b>

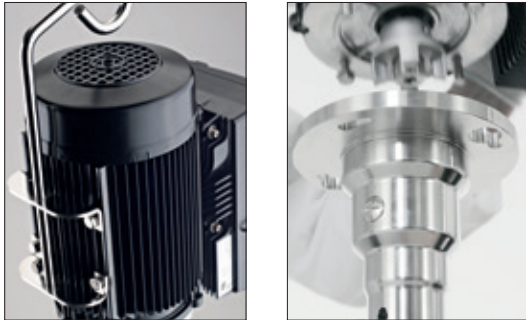
Drehstrommotore  
230/400 V, 50 Hz,  
RAL 9005,  
Energieeffizienzklasse  
IE 3 gemäß EU-Verord-  
nung 640/2009 und  
04/2014.  
Sonderspannungen,  
Frequenzen, Schutz-  
arten auf Anfrage.

# B70V-H-D SanitaryPlus 25.2, 50.1, 75.1

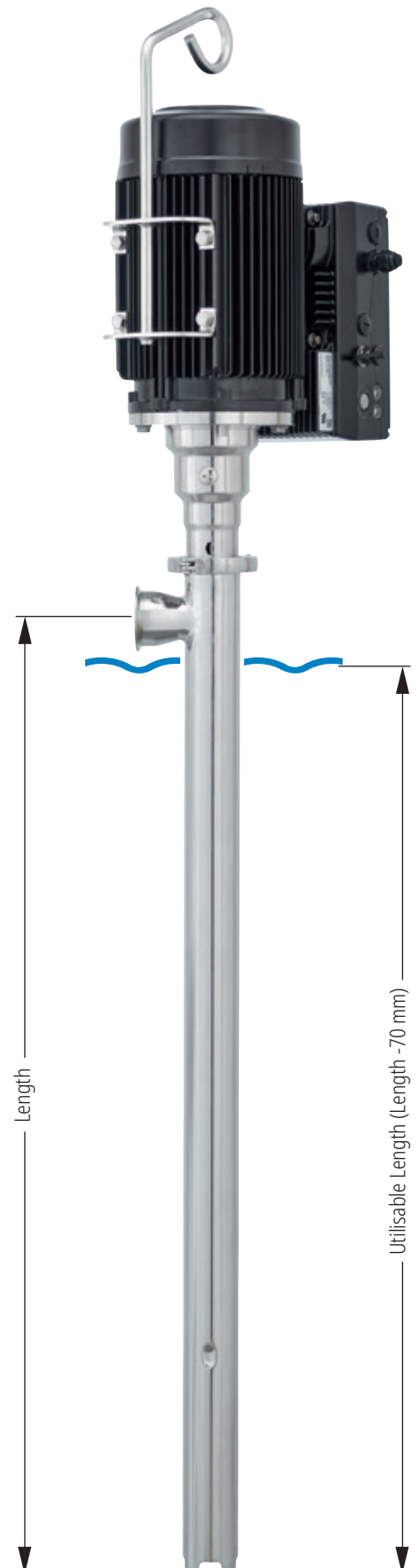
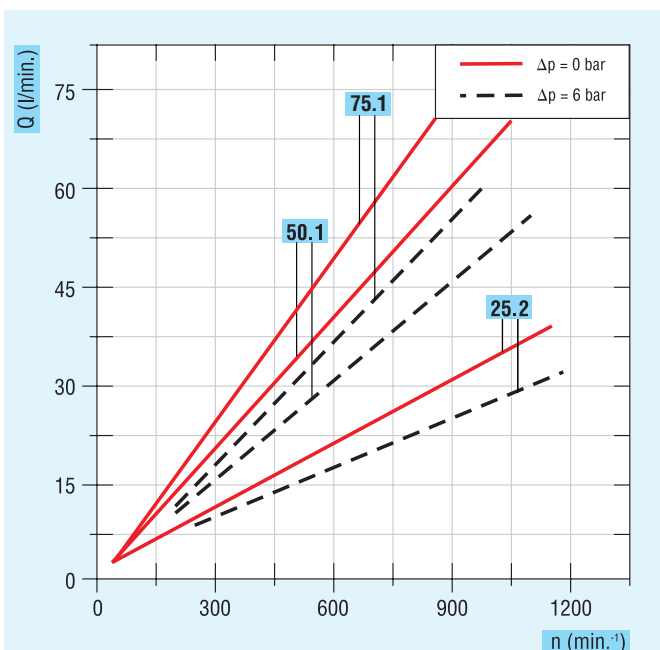
for viscosities up to 100,000 mPas

## Materials (coming into contact with the pumped medium):

Version:	B70V-H-D SanitaryPlus 25.2/50.1/75.1
Housing:	Stainless steel (1.4404)
Rotor/Shaft:	Stainless steel (1.4571, 1.4462)
Seals:	EPDM
Mechanical seal:	SiC/carbon/EPDM (FPM), optional SiC/SiC/EPDM (FPM)
Stator material:	PTFE, EPDM (Size 50.1)



Equipped with mounting strap and motor quick coupling as standard.



# Lutz Drum and Container Pumps in PURE Version

Pumps and flow meters in contact with food products are considered to be "food contact materials" and are thus subject to strict legal regulations. The new Lutz PURE series includes products which are in conformity with the ATEX Directive as well as with the FDA Approval and the European Regulation according to 1935/2004/EC.



## Lutz Drum Pumps SS 41 in PURE Version

A versatile and variable drum pump ideal for corrosive and neutral, aqueous to slightly viscous fluids in the production and processing of food products.

- + Low weight, easy handling
- + Completely dismantlable and cleanable
- + Two impeller forms for flow rate as required
- + Mechanically sealed (MS) version suitable for crystallizing and adhesive liquids, as well as liquids containing solids
- + Not filled with lubricants, preventing product contamination
- + Sealless version (SL) is suitable for limited dry running



### Properties:

- Materials in contact with liquids in food quality
- Shaft seal: Mechanically sealed (MS) or sealless (SL)
- Lutz hand wheel for quick motor assembly/disassembly and as carry handle
- Optionally available with electrical drive or compressed air drive with infinitely variable speed control.
- Explosion-proof versions approved in accordance with the ATEX Directive 2014/34/EU Category 1/2



## Lutz Complete Drum Drainage Pumps and Mixing Pumps RE SS 41 and MP SS 41 in PURE Version

**Lutz RE complete drum drainage pumps** allow you to remove selected raw materials and valuable food products from drums and containers leaving virtually no residue.

- + Maximum pump utilisation and reduced drum cleaning effort
- + Completely dismantlable and cleanable
- + Optimized complete drum drainage with a remaining residual quantity of approx. 0.1 liter
- + No leakage when the pump is turned over or at an inclined position
- + Also suitable for crystallizing and adhesive liquids, as well as liquids containing solids
- + Sealing mechanism in pump foot
- + Not filled with lubricants, preventing product contamination



**Lutz MP mixing pumps** combine the function of agitator and pump in a single device. They are specifically developed for mixing and pumping food products which tend to form sediment after long periods of standing and must be homogenised before being processed.

- + Agitator and pump in a single device
- + Can change function during ongoing operation without having to be switched
- + High mixing performance and flow rate for thorough homogenisation and rapid drainage
- + Completely dismantlable and cleanable
- + Also suitable for crystallizing and adhesive liquids, as well as liquids containing solids
- + Mixing apertures in the outer pipe can be opened and closed using a lever below the hand wheel
- + Not filled with lubricants, preventing product contamination





### Properties:

- Materials in contact with liquids in food quality
- Lutz hand wheel for quick motor assembly/disassembly and as carry handle
- Optionally available with electrical drive or compressed air drive with infinitely variable speed control.
- Explosion-proof versions approved in accordance with the EX Directive 2014/34/EU Category 1/2



# Lutz Drum and Container Pumps

## Pump tube SS PURE (stainless steel) for aqueous and fatty foodstuffs

Product detail	Pump tube	SS-SL	SS-MS					
	Type of impeller	Impeller	Rotor	Impeller	Rotor			
	Category 1 / 2 (acc. to ATEX)	no	no	yes	yes			
	Immersion tube diameter:	up to mm	41	41	41	41		
	Temperature of medium:	up to °C	100	100	100	100		
	Material:	Pump tube Impeller/Rotor	1.4571 ETFE	1.4571 ETFE	1.4571 ETFE	1.4571 ETFE		
	Hose connection:	Tri-Clamp DN	32	32	32	32		
	Length: 700 mm*** ▲	Order No. basic pump	<b>0150-003</b>	<b>0150-000</b>	<b>0151-003</b>	<b>0151-000</b>		
	Length: 1000 mm*** ▲	Order No. basic pump	<b>0150-004</b>	<b>0150-001</b>	<b>0151-004</b>	<b>0151-001</b>		
	Length: 1200 mm*** ▲	Order No. basic pump	<b>0150-005</b>	<b>0150-002</b>	<b>0151-005</b>	<b>0151-002</b>		
	Version: PURE SL ▲	Order No. additional price	<b>0150-350</b>	<b>0150-351</b>	-	-		
Version: PURE MS FPM ▲	Order No. additional price	-	-	<b>0151-350</b>	<b>0151-351</b>			
Version: PURE MS EPDM ▲	Order No. additional price	-	-	<b>0151-352</b>	<b>0151-353</b>			
▲ Please choose Order No. basic pump + Order No. PURE additional price								
<b>Choice of motors</b>		<b>Operating data</b>						
	<b>MI 4</b>	<b>MI 4-E</b>	Characteristic curve no.	401	400	401	400	
	-	with speed controller	Flow rate* up to/min.	117	210	117	210	
	Output: 500 W	500 W	Delivery head* up to m wc	19	10	19	10	
	Voltage: 230 V	230 V	Viscosity** up to mPas	500	350	500	350	
Order No.	<b>0030-000</b>	<b>0030-001</b>	Density**** up to kg/dm³	1.4	1.1	1.4	1.1	
			Weight (kg) Motor + pump tube	5.7	5.7	5.7	5.7	
	<b>MA II 3</b>		Characteristic curve no.	403	402	403	402	
	Output: 460 W	460 W	Flow rate* up to/min.	95	178	95	178	
	Voltage: 230 V	230 V	Delivery head* up to m wc	14	9	14	9	
	LVR.: no	yes	Viscosity** up to mPas	350	200	350	200	
	Order No.	<b>0060-000</b>	<b>0060-008</b>	Density**** up to kg/dm³	1.6	1.2	1.6	1.2
				Weight (kg) Motor + pump tube	7.5	7.5	7.5	7.5
	<b>MA II 5</b>	<b>MA II 5</b>	<b>MA II 5 S</b>	Characteristic curve no.	405	404	405	404
	Output: 575 W	575 W	575 W	Flow rate* up to/min.	100	190	100	190
	Voltage: 230 V	230 V	230 V	Delivery head* up to m wc	16	10	16	10
	LVR.: no	yes	no	Viscosity** up to mPas	700	550	700	550
Order No.	<b>0060-001</b>	<b>0060-009</b>	Density**** up to kg/dm³	1.8	1.3	1.8	1.3	
		acid-proof	Weight (kg) Motor + pump tube	8.3	8.3	8.3	8.3	
	<b>MA II 7</b>		Characteristic curve no.	407	406	407	406	
Output: 795 W	795 W		Flow rate* up to/min.	115	210	115	210	
Voltage: 230 V	230 V		Delivery head* up to m wc	20	13	20	13	
LVR.: no	yes		Viscosity** up to mPas	500	400	500	400	
Order No.	<b>0060-002</b>	<b>0060-010</b>	Density**** up to kg/dm³	1.9	1.4	1.9	1.4	
			Weight (kg) Motor + pump tube	9.5	9.5	9.5	9.5	
	<b>MD1xL</b>	<b>MD2xL</b>	Characteristic curve no.	409	408	409	408	
	Output: 1000 W	1000 W	Flow rate* up to/min.	124	276	124	276	
	Operating pressure: 6 bar	6 bar	Delivery head* up to m wc	35	20	35	20	
		infinitely variable speed	Viscosity** up to mPas	1000	1000	1000	1000	
Order No.	<b>0004-725</b>	<b>0004-735</b>	Density**** up to kg/dm³	2.8	2.8	2.8	2.8	
			Weight (kg) Motor + pump tube	4.3	4.3	4.3	4.3	
	<b>B4/GT</b>		Characteristic curve no.	411	410	411	410	
	Output: 750 W	750 W	Flow rate* up to/min.	100	180	100	180	
	Voltage: 230/400 V	230/400 V	Delivery head* up to m wc	12	13	12	13	
	Protection switch: no	yes	Viscosity** up to mPas	500	400	500	400	
Order No.	<b>0004-050</b>	<b>0004-052</b>	Density**** up to kg/dm³	2.2	2.0	2.2	2.0	
			Weight (kg) Motor + pump tube	14.7	14.7	14.7	14.7	

\* Determined with water at 20 °C\*\*\*

\*\* Determined with oil

Special lengths  
200–2500 mm on request

\*\*\*\* Determined with 3 m hose 3/4" and open nozzle 3/4".  
Higher densities possible for shorter operating periods.

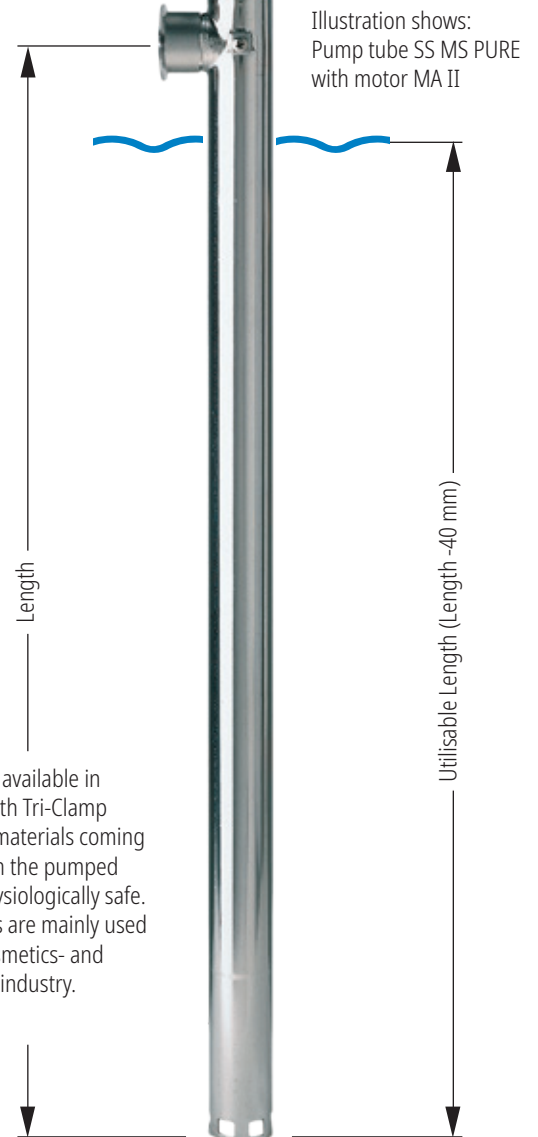
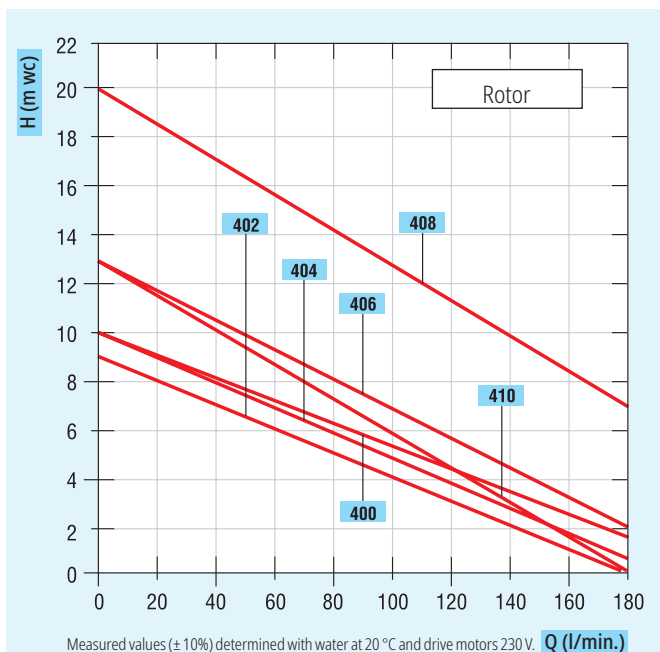
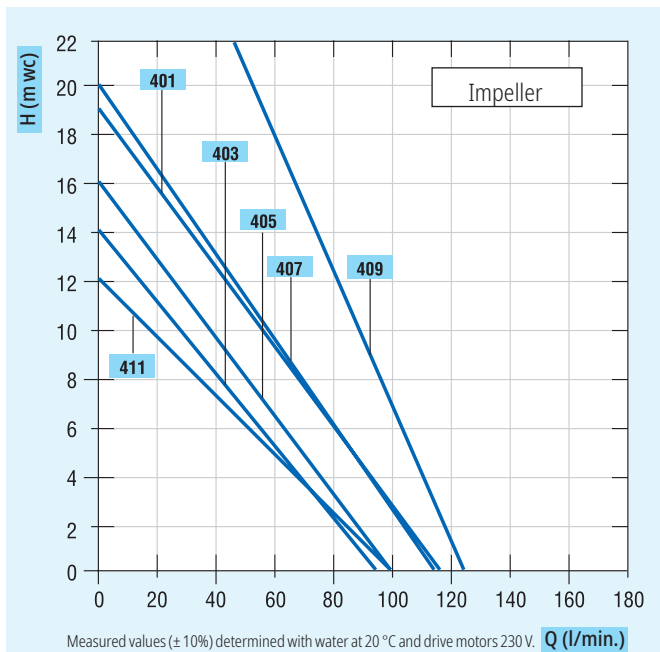
Special voltages and frequencies on request.

# Pump tube SS PURE (stainless steel)

for aqueous and fatty foodstuffs

## Materials (coming into contact with the pumped medium):

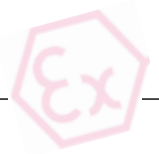
Version:	SL-R	SL-L	MS-FPM	MS-EPDM
Housing:	SS (1.4571)	SS (1.4571)	SS (1.4571)	SS (1.4571)
Impeller:	SS (1.4571)	PP	ETFE	ETFE
Seals:	none	none	FPM	EPDM
Mechanical seals:	none	none	Carbon, Ceramic, PTFE, SS (1.4571), HC-4 (2.4610)	Carbon, Ceramic, PTFE, SS (1.4571), HC-4 (2.4610)
Bearing:	Pure Carbon	Pure Carbon	Pure Carbon	Pure Carbon
Drive shaft:	SS (1.4571)	SS (1.4571)	SS (1.4571)	SS (1.4571)




Pump tube also available in PURE version with Tri-Clamp connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Please remember that the flow rate is reduced as the **Viscosity** increases. The **Density** of the pumped liquid similarly affects the flow rate, though to a lesser extent.

# Lutz Drum and Container Pumps



Pump tube SS PURE (stainless steel) for alcoholic, highly flammable foodstuffs

Product detail	Pump tube	SS-MS		
	Type of impeller	Impeller	Rotor	
	Category 1 / 2 (acc. to ATEX)	yes	yes	
	Immersion tube diameter:	up to mm	41	41
	Temperature of medium:	up to °C	100	100
	Material:	Pump tube	1.4571	1.4571
		Impeller/Rotor	ETFE	ETFE
	Hose connection:	Tri-Clamp DN	32	32
	Length: 700 mm <sup>***</sup> ▲	Order No. basic pump	<b>0151-003</b>	<b>0151-000</b>
	Length: 1000 mm <sup>***</sup> ▲	Order No. basic pump	<b>0151-004</b>	<b>0151-001</b>
	Length: 1200 mm <sup>***</sup> ▲	Order No. basic pump	<b>0151-005</b>	<b>0151-002</b>
Version: PURE FPM ▲	Order No. additional price	<b>0151-350</b>	<b>0151-351</b>	
Version: PURE EPDM ▲	Order No. additional price	<b>0151-352</b>	<b>0151-353</b>	

▲ Please choose Order No. basic pump + Order No. PURE additional price

## Choice of motors Operating data



ME II 3	ME II 5	ME II 7	ME II 8
Output: 460 W 460 W	Output: 580 W 580 W	Output: 795 W 795 W	Output: 930 W 930 W
Voltage: 230 V 230 V	Voltage: 230 V 230 V	Voltage: 230 V 230 V	Voltage: 230 V 230 V
LVR.: yes no	LVR.: yes no	LVR.: yes no	LVR.: yes no
Order No. <b>0050-000 0050-016</b>	Order No. <b>0050-001 0050-017</b>	Order No. <b>0050-002 0050-018</b>	Order No. <b>0050-042 0050-041</b>
Characteristic curve no. 453	Characteristic curve no. 455	Characteristic curve no. 457	Characteristic curve no. 459
Flow rate* up to/min. 95	Flow rate* up to/min. 100	Flow rate* up to/min. 115	Flow rate* up to/min. 123
Delivery head* up to m wc 14	Delivery head* up to m wc 16	Delivery head* up to m wc 20	Delivery head* up to m wc 26
Viscosity** up to mPas 350	Viscosity** up to mPas 700	Viscosity** up to mPas 500	Viscosity** up to mPas 750
Density**** up to kg/dm <sup>3</sup> 1.6	Density**** up to kg/dm <sup>3</sup> 1.8	Density**** up to kg/dm <sup>3</sup> 1.9	Density**** up to kg/dm <sup>3</sup> 1.9
Weight (kg) Motor + pump tube 8.7	Weight (kg) Motor + pump tube 9.6	Weight (kg) Motor + pump tube 10.8	Weight (kg) Motor + pump tube 10.8

Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. Compulsory for explosive areas, in case no special measures are taken (e.g. remote control).



MD1xL	MD2xL
Output: 1000 W 1000 W	Output: 1000 W 1000 W
Operating pressure: 6 bar	Operating pressure: 6 bar
	infinitely variable speed
Order No. <b>0004-725 0004-735</b>	Order No. <b>0004-725 0004-735</b>
Characteristic curve no. 461	Characteristic curve no. 460
Flow rate* up to/min. 124	Flow rate* up to/min. 276
Delivery head* up to m wc 35	Delivery head* up to m wc 20
Viscosity** up to mPas 1000	Viscosity** up to mPas 1000
Density**** up to kg/dm <sup>3</sup> 2.8	Density**** up to kg/dm <sup>3</sup> 2.8
Weight (kg) Motor + pump tube 4.3	Weight (kg) Motor + pump tube 4.3

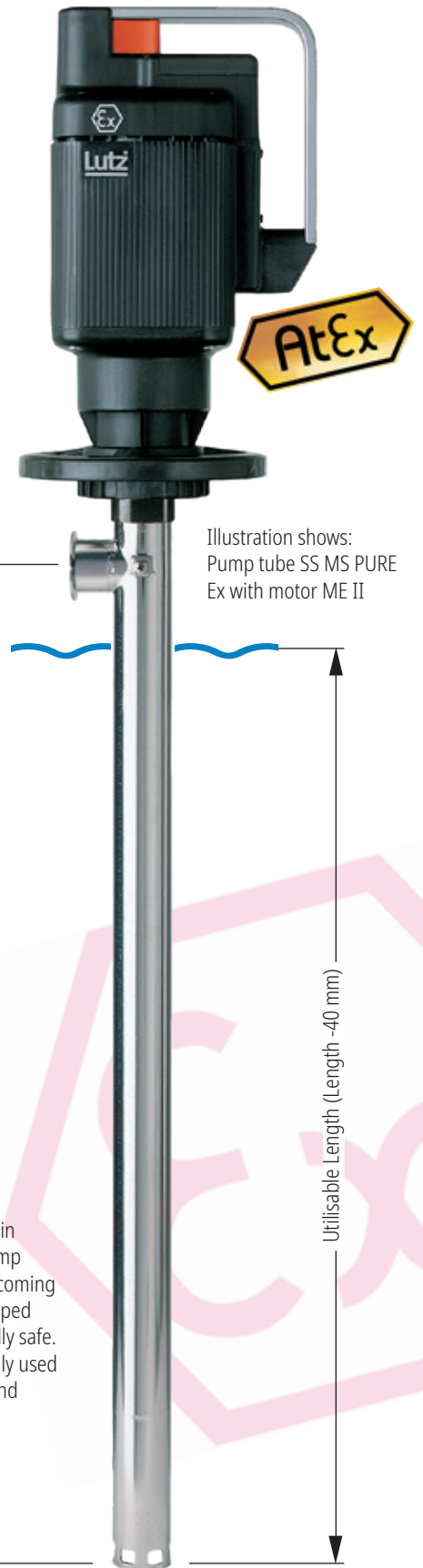
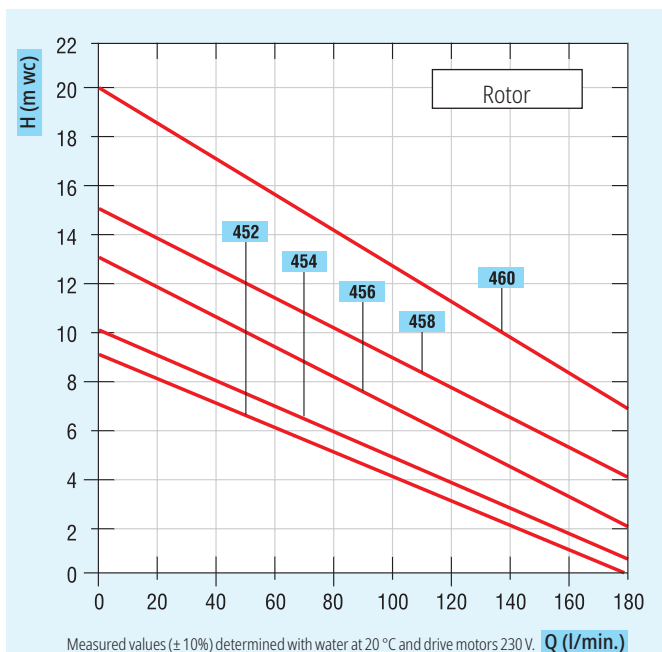
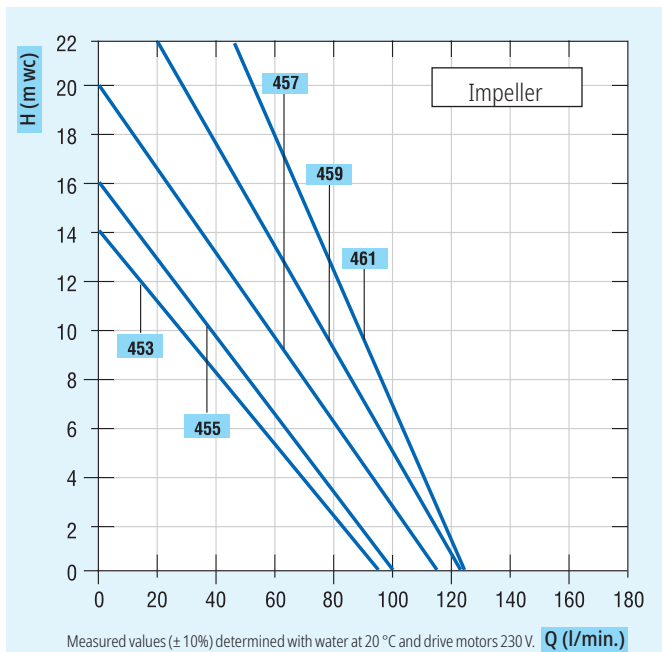
\* Determined with water at 20 °C\*\*\* Special lengths 200–2500 mm on request  
 \*\* Determined with oil  
 \*\*\*\* Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.  
 Special voltages and frequencies on request.

# Pump tube SS PURE (stainless steel)

for alcoholic, highly flammable foodstuffs

## Materials (coming into contact with the pumped medium):

Version:	MS-FPM	MS-EPDM
Housing:	stainless steel (1.4571)	stainless steel (1.4571)
Impeller:	ETFE	ETFE
Seals:	FPM	EPDM
Mechanical seal:	Carbon, Ceramic, PTFE, stainless steel, HC-4 (2.4610)	Carbon, Ceramic, PTFE, stainless steel, HC-4 (2.4610)
Bearing:	Pure Carbon	Pure Carbon
Drive shaft:	stainless steel (1.4571)	stainless steel (1.4571)



Pump tube also available in PURE version with Tri-Clamp connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Please remember that the flow rate is reduced as the **Viscosity** increases. The **Density** of the pumped liquid similarly affects the flow rate, though to a lesser extent.

# Lutz Drum and Container Pumps

Pump tube RE-SS PURE (stainless steel) for complete drum drainage of aqueous and fatty foodstuffs

Product detail	Pump tube	RE-SS MS			
	Type of impeller	Impeller	Impeller		
	Category 1 / 2 (acc. to ATEX)	no	yes		
	Immersion tube diameter:	up to mm	41	41	
	Temperature of medium:	up to °C	100	100	
	Material:	Pump tube Impeller	1.4571 ETFE	1.4571 ETFE	
	Hose connection:	Tri-Clamp DN	32	32	
	Length: 700 mm*** ▲	Order No. basic pump	<b>0151-156</b>	<b>0151-156</b>	
	Length: 1000 mm*** ▲	Order No. basic pump	<b>0151-157</b>	<b>0151-157</b>	
	Length: 1200 mm*** ▲	Order No. basic pump	<b>0151-158</b>	<b>0151-158</b>	
	Version: PURE FPM ▲	Order No. additional price	–	<b>0151-360</b>	
Version: PURE EPDM ▲	Order No. additional price	<b>0151-361</b>	<b>0151-362</b>		
▲Please choose Order No. basic pump + Order No. PURE additional price					
<b>Choice of motors</b>		<b>Operating data</b>			
	<b>MI 4</b>	<b>MI 4-E</b>	Characteristic curve no. 700 Flow rate* up to/min. 78 Delivery head* up to m wc 17 Viscosity** up to mPas 700 Density**** up to kg/dm³ 1.4 Weight (kg) Motor + pump tube 6.0		
	-	with speed controller			
Output:	500 W	500 W			
Voltage:	230 V	230 V			
Order No.	<b>0030-000</b>	<b>0030-001</b>			
	<b>MA II 3</b>		Characteristic curve no. 701 Flow rate* up to/min. 77 Delivery head* up to m wc 14 Viscosity** up to mPas 500 Density**** up to kg/dm³ 1.6 Weight (kg) Motor + pump tube 7.8		
	Output:	460 W		460 W	
	Voltage:	230 V		230 V	
	LVR.:	no		yes	
	Order No.	<b>0060-000</b>		<b>0060-008</b>	
	<b>MA II 5</b>	<b>MA II 5</b>	<b>MA II 5 S</b>	Characteristic curve no. 702 Flow rate* up to/min. 77 Delivery head* up to m wc 14 Viscosity** up to mPas 900 Density**** up to kg/dm³ 1.8 Weight (kg) Motor + pump tube 8.6	
	Output:	575 W	575 W		575 W
	Voltage:	230 V	230 V		230 V
	LVR.:	no	yes		no acid-proof
Order No.	<b>0060-001</b>	<b>0060-009</b>	<b>0060-091</b>		
	<b>MA II 7</b>			Characteristic curve no. 703 Flow rate* up to/min. 70 Delivery head* up to m wc 18 Viscosity** up to mPas 700 Density**** up to kg/dm³ 1.9 Weight (kg) Motor + pump tube 9.8	
	Output:	795 W	795 W		
	Voltage:	230 V	230 V		
	LVR.:	no	yes		
Order No.	<b>0060-002</b>	<b>0060-010</b>			
	<b>MD1xL</b>	<b>MD2xL</b>		Characteristic curve no. 704 Flow rate* up to/min. 67 Delivery head* up to m wc 28 Viscosity** up to mPas 1000 Density**** up to kg/dm³ 2.8 Weight (kg) Motor + pump tube 4.6	
	Output:	1000 W	1000 W		
	Operating pressure:	6 bar	6 bar		infinitely variable speed
	Order No.	<b>0004-725</b>	<b>0004-735</b>		
	<b>B4/GT</b>			Characteristic curve no. 705 Flow rate* up to/min. 55 Delivery head* up to m wc 8.5 Viscosity** up to mPas 600 Density**** up to kg/dm³ 2.2 Weight (kg) Motor + pump tube 15.0	
	Output:	750 W	750 W		
	Voltage:	230/400 V	230/400 V		
	Protection switch	no	yes		
	Order No.	<b>0004-050</b>	<b>0004-052</b>		

\* Determined with water at 20 °C\*\*\* Special lengths

\*\* Determined with oil 400–2000 mm on request

\*\*\*\* Determined with 3 m hose 3/4" and open nozzle 3/4".

Higher densities possible for shorter operating periods.

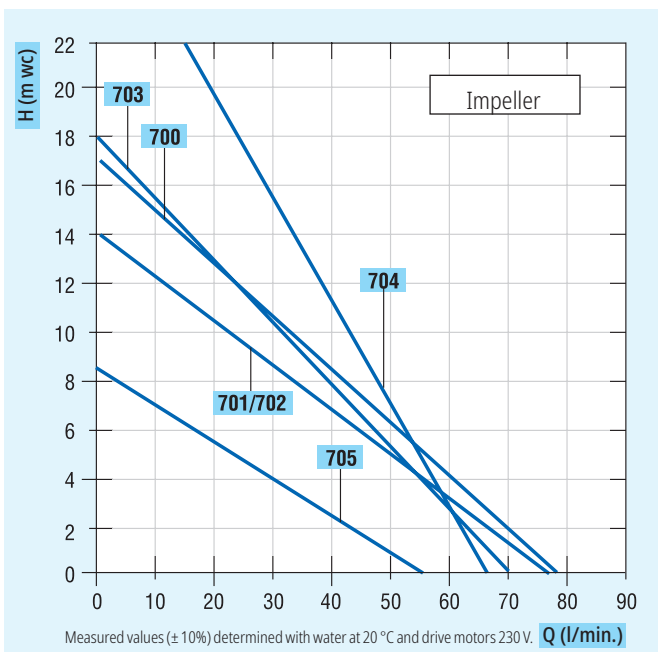
Special voltages and frequencies on request.

# Pump tube RE-SS PURE (stainless steel)

for complete drum drainage of aqueous and fatty foodstuffs

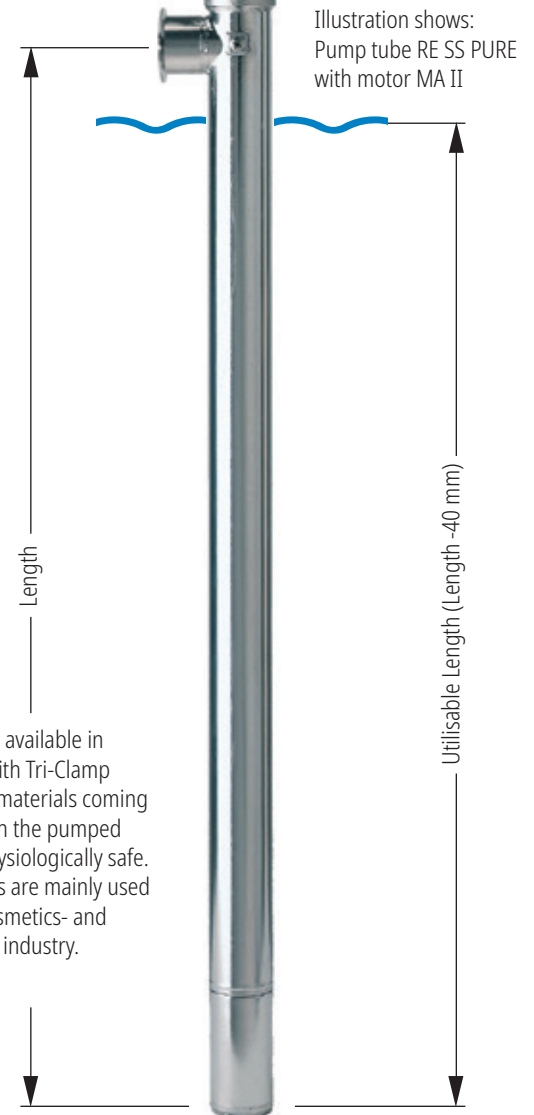
## Materials (coming into contact with the pumped medium):

Version:	MS-FPM	MS-EPDM
Housing:	stainless steel (1.4571)	stainless steel (1.4571)
Impeller:	ETFE	ETFE, optional PP
Sealing pot:	ETFE/stainless steel (1.4571)	ETFE/stainless steel (1.4571)
Seals:	FPM, PTFE	EPDM, PTFE
Mechanical seal:	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)
Bearing:	Pure Carbon	Pure Carbon
Drive shaft:	stainless steel (1.4571)	stainless steel (1.4571)



### Complete drum drainage

Nearly completely drained.  
Residual quantity < 0.10 litres.




Pump tube also available in PURE version with Tri-Clamp connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Please remember that the flow rate is reduced as the **Viscosity** increases. The **Density** of the pumped liquid similarly affects the flow rate, though to a lesser extent.

# Lutz Drum and Container Pumps













Pump tube RE-SS PURE (stainless steel) for complete drum drainage of alcoholic, highly flammable foodstuffs

Product detail	Pump tube	RE-SS MS	
	Type of impeller	Impeller	
	Category 1 / 2 (acc. to ATEX)	yes	
	Immersion tube diameter:	up to mm	41
	Temperature of medium:	up to °C	100
	Material:	Pump tube Impeller	1.4571 ETFE
	Hose connection:	Tri-Clamp DN	32
	Length: 700 mm*** ▲	Order No. basic pump	<b>0151-156</b>
	Length: 1000 mm*** ▲	Order No. basic pump	<b>0151-157</b>
	Length: 1200 mm*** ▲	Order No. basic pump	<b>0151-158</b>
	Version: PURE FPM ▲	Order No. additional price	<b>0151-360</b>
Version: PURE EPDM ▲	Order No. additional price	<b>0151-361</b>	

▲ Please choose Order No. basic pump + Order No. PURE additional price

## Choice of motors Operating data

 	<b>ME II 3</b>	Characteristic curve no.	750
	Output: 460 W 460 W	Flow rate* up to/min.	77
	Voltage: 230 V 230 V	Delivery head* up to m wc	14
	LVR.: yes no	Viscosity** up to mPas	500
	Order No. <b>0050-000 0050-016</b>	Density**** up to kg/dm <sup>3</sup>	1.6
		Weight (kg) Motor + pump tube	9.0
 	<b>ME II 5</b>	Characteristic curve no.	751
	Output: 580 W 580 W	Flow rate* up to/min.	77
	Voltage: 230 V 230 V	Delivery head* up to m wc	14
	LVR.: yes no	Viscosity** up to mPas	900
	Order No. <b>0050-001 0050-017</b>	Density**** up to kg/dm <sup>3</sup>	1.8
		Weight (kg) Motor + pump tube	9.9
 	<b>ME II 7</b>	Characteristic curve no.	752
	Output: 795 W 795 W	Flow rate* up to/min.	70
	Voltage: 230 V 230 V	Delivery head* up to m wc	18
	LVR.: yes no	Viscosity** up to mPas	700
	Order No. <b>0050-002 0050-018</b>	Density**** up to kg/dm <sup>3</sup>	1.9
		Weight (kg) Motor + pump tube	11.1
 	<b>ME II 8</b>	Characteristic curve no.	753
	Output: 930 W 930 W	Flow rate* up to/min.	78
	Voltage: 230 V 230 V	Delivery head* up to m wc	22
	LVR.: yes no	Viscosity** up to mPas	950
	Order No. <b>0050-042 0050-041</b>	Density**** up to kg/dm <sup>3</sup>	1.9
		Weight (kg) Motor + pump tube	11.1
 	<b>MD1xL MD2xL</b>	Characteristic curve no.	754
	Output: 1000 W 1000 W	Flow rate* up to/min.	67
	Operating pressure: 6 bar 6 bar	Delivery head* up to m wc	28
		Viscosity** up to mPas	1000
	Order No. <b>0004-725 0004-735</b>	Density**** up to kg/dm <sup>3</sup>	2.8
		Weight (kg) Motor + pump tube	4.6

Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. Compulsory for explosive areas, in case no special measures are taken (e.g. remote control).

\* Determined with water at 20 °C\*\*\* Special lengths 400–2000 mm on request

\*\*\*\* Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

Special voltages and frequencies on request.

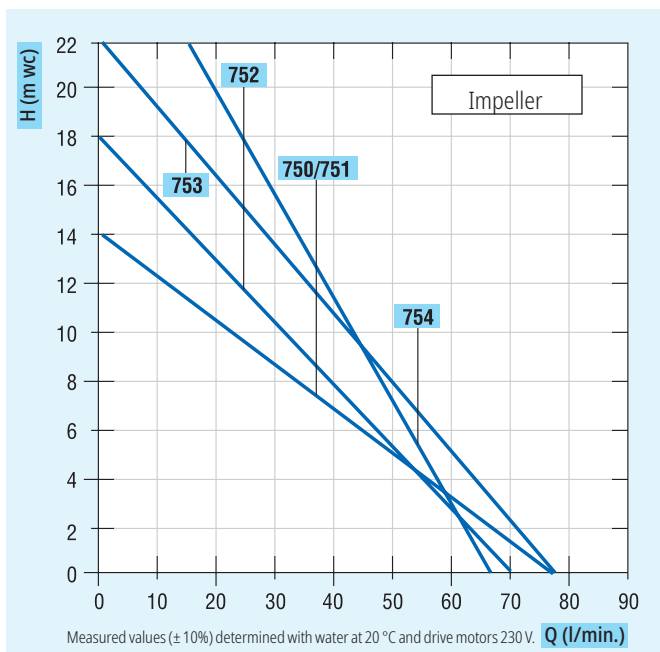


# Pump tube RE-SS PURE (stainless steel)

for complete drum drainage of alcoholic, highly flammable foodstuffs

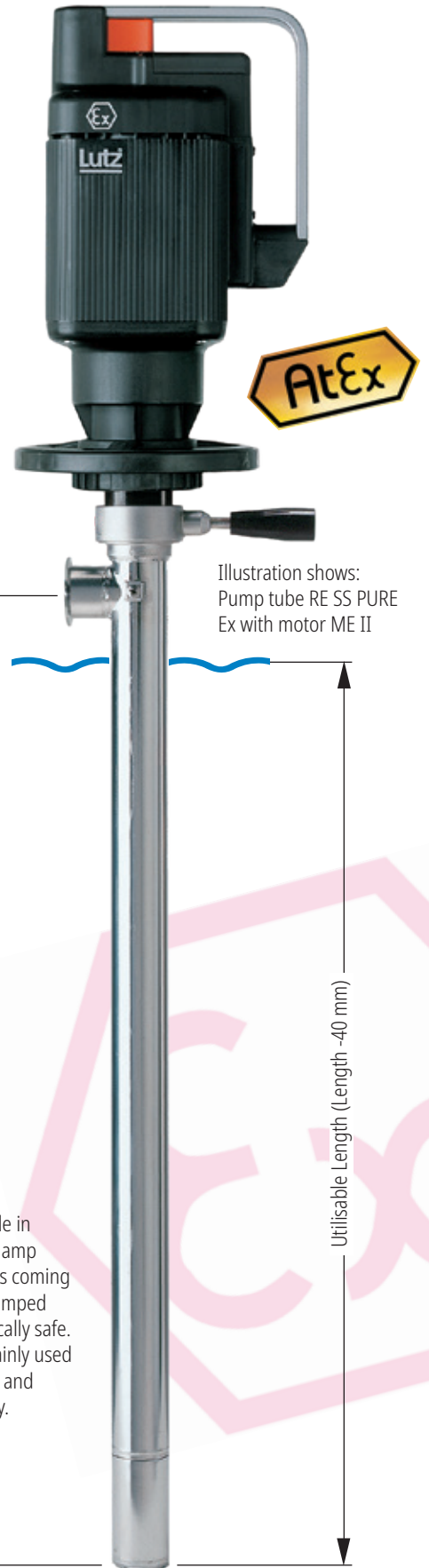
## Materials (coming into contact with the pumped medium):

Version:	MS-FPM	MS-EPDM
Housing:	stainless steel (1.4571)	stainless steel (1.4571)
Impeller:	ETFE	ETFE
Sealing pot:	ETFE/stainless steel (1.4571)	ETFE/stainless steel (1.4571)
Seals:	FPM, PTFE	EPDM, PTFE
Mechanical seal:	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)
Bearing:	Pure Carbon	Pure Carbon
Drive shaft:	stainless steel (1.4571)	stainless steel (1.4571)



### Tip

The right pump for "hot applications".




Pump tube also available in PURE version with Tri-Clamp connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Please remember that the flow rate is reduced as the **Viscosity** increases. The **Density** of the pumped liquid similarly affects the flow rate, though to a lesser extent.

# Lutz Drum and Container Pumps

Pump tube MP-SS PURE (stainless steel) for mixing and pumping of aqueous and fatty foodstuffs

Product detail	Pump tube	MP-SS MS	MP-SS MS	
	Type of impeller	Rotor	Rotor	
	Category 1 / 2 (acc. to ATEX)	no	yes	
	Immersion tube diameter:	up to mm	41	41
	Temperature of medium:	up to °C	100	100
	Material:	Pump tube	1.4571	1.4571
		Rotor	SS	ETFE
	Hose connection:	Tri-Clamp DN	32	32
	Length: 1000 mm*** ▲	Order No. basic pump	<b>0151-240</b>	<b>0151-240</b>
	Length: 1225 mm*** ▲	Order No. basic pump	<b>0151-255</b>	<b>0151-255</b>
	Version: PURE FPM ▲	Order No. additional price	–	<b>0151-355</b>
Version: PURE EPDM ▲	Order No. additional price	<b>0151-356</b>	<b>0151-357</b>	

▲Please choose Order No. basic pump + Order No. PURE additional price

## Choice of motors

## Operating data

	<b>MI 4</b>	<b>MI 4-E</b>	Characteristic curve no.	900	
	-	with speed controller	Flow rate* up to/min.	210	
	Output: 500 W	500 W	Delivery head* up to m wc	10	
	Voltage: 230 V	230 V	Viscosity** up to mPas	350	
		Density**** up to kg/dm <sup>3</sup>	1.1		
	Order No. <b>0030-000</b>	<b>0030-001</b>	Weight (kg) Motor + pump tube	6.0	
	<b>MA II 3</b>		Characteristic curve no.	901	
	Output: 460 W	460 W	Flow rate* up to/min.	178	
	Voltage: 230 V	230 V	Delivery head* up to m wc	9	
	LVR.: no	yes	Viscosity** up to mPas	200	
			Density**** up to kg/dm <sup>3</sup>	1.2	
		Order No. <b>0060-000</b>	<b>0060-008</b>	Weight (kg) Motor + pump tube	7.8
	<b>MA II 5</b>	<b>MA II 5</b>	<b>MA II 5 S</b>	Characteristic curve no.	902
	Output: 575 W	575 W	575 W	Flow rate* up to/min.	190
	Voltage: 230 V	230 V	230 V	Delivery head* up to m wc	10
	LVR.: no	yes	no	Viscosity** up to mPas	550
		acid-proof	Density**** up to kg/dm <sup>3</sup>	1.3	
	Order No. <b>0060-001</b>	<b>0060-009</b>	<b>0060-091</b>	Weight (kg) Motor + pump tube	8.6
	<b>MA II 7</b>		Characteristic curve no.	903	
	Output: 795 W	795 W	Flow rate* up to/min.	210	
	Voltage: 230 V	230 V	Delivery head* up to m wc	13	
	LVR.: no	yes	Viscosity** up to mPas	400	
			Density**** up to kg/dm <sup>3</sup>	1.4	
		Order No. <b>0060-002</b>	<b>0060-010</b>	Weight (kg) Motor + pump tube	9.8
		<b>MD1xL</b>	<b>MD2xL</b>	Characteristic curve no.	904
		Output: 1000 W	1000 W	Flow rate* up to/min.	245
		Operating pressure: 6 bar	6 bar	Delivery head* up to m wc	21
			infinitely variable speed	Viscosity** up to mPas	1000
			Density**** up to kg/dm <sup>3</sup>	2.8	
		Order No. <b>0004-725</b>	<b>0004-735</b>	Weight (kg) Motor + pump tube	4.6
	<b>B4/GT</b>		Characteristic curve no.	905	
	Output: 750 W	750 W	Flow rate* up to/min.	140	
	Voltage: 230/400 V	230/400 V	Delivery head* up to m wc	10.5	
	Protection switch	no	yes	Viscosity** up to mPas	400
			Density**** up to kg/dm <sup>3</sup>	2.0	
		Order No. <b>0004-050</b>	<b>0004-052</b>	Weight (kg) Motor + pump tube	15.0

\* Determined with water at 20 °C\*\*\* Special lengths

\*\* Determined with oil 600–2500 mm on request

\*\*\*\* Determined with 3 m hose 3/4" and open nozzle 3/4".

Higher densities possible for shorter operating periods.

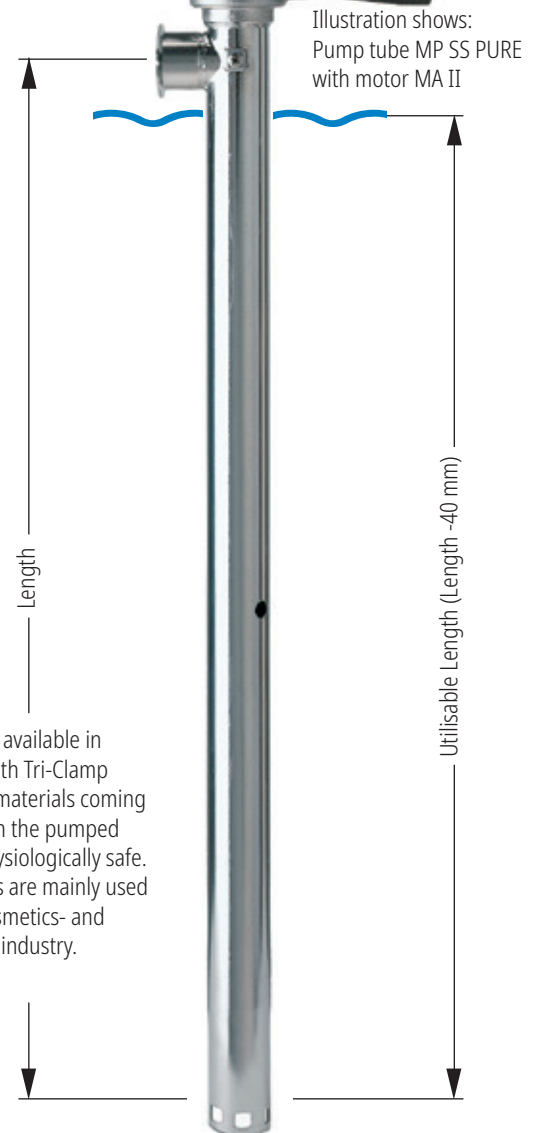
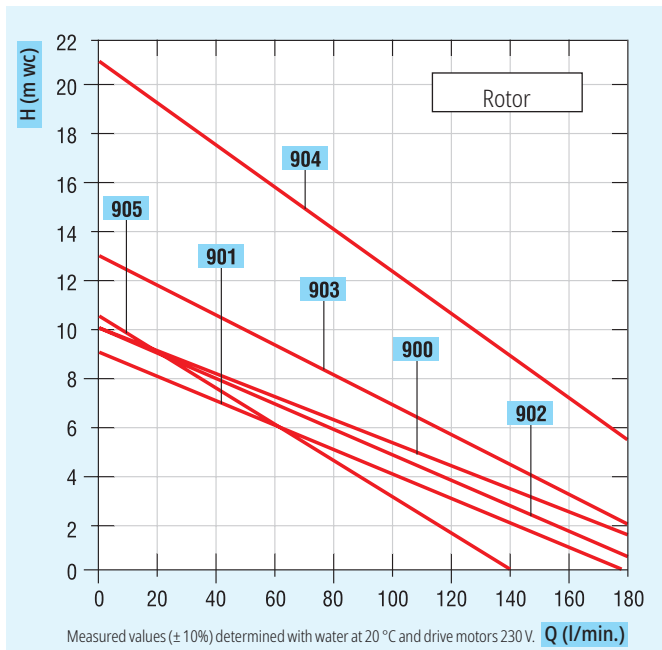
Special voltages and frequencies on request.

# Pump tube MP-SS PURE (stainless steel)

for mixing and pumping of aqueous and fatty foodstuffs

## Materials (coming into contact with the pumped medium):

Version:	MS-FPM	MS-EPDM
Housing:	stainless steel (1.4571)	stainless steel (1.4571)
Impeller:	ETFE	ETFE optional SS
Seals:	FPM, PTFE	EPDM, PTFE
Mechanical seal:	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)
Bearing:	Pure Carbon	Pure Carbon
Drive shaft:	stainless steel (1.4571)	stainless steel (1.4571)



Pump tube also available in PURE version with Tri-Clamp connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

### Tip


Which pump for which liquid?  
See resistance table

Please remember that the flow rate is reduced as the **Viscosity** increases. The **Density** of the pumped liquid similarly affects the flow rate, though to a lesser extent.

# Lutz Drum and Container Pumps




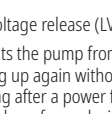



Pump tube MP-SS PURE (stainless steel) for mixing and pumping of alcoholic, highly flammable foodstuffs

Product detail	Pump tube	MP-SS MS	
	Type of impeller	Rotor	
	Category 1 / 2 (acc. to ATEX)	yes	
	Immersion tube diameter:	up to mm	41
	Temperature of medium:	up to °C	100
	Material:	Pump tube	1.4571
		Rotor	ETFE
	Hose connection:	Tri-Clamp DN	32
	Length: 1000 mm***	Order No. basic pump	<b>0151-240</b>
	Length: 1225 mm***	Order No. basic pump	<b>0151-255</b>
	Version: PURE FPM ^	Order No. additional price	<b>0151-355</b>
Version: PURE EPDM ^	Order No. additional price	<b>0151-357</b>	

▲ Please choose Order No. basic pump + Order No. PURE additional price

## Choice of motors Operating data

	<b>ME II 3</b>		Characteristic curve no.	950
	Output:	460 W    460 W	Flow rate* up to/min.	178
	Voltage:	230 V    230 V	Delivery head* up to m wc	9
	LVR.:	yes    no	Viscosity** up to mPas	200
			Density**** up to kg/dm³	1.2
	Order No.	<b>0050-000    0050-016</b>	Weight (kg) Motor + pump tube	9.0
	<b>ME II 5</b>		Characteristic curve no.	951
	Output:	580 W    580 W	Flow rate* up to/min.	190
	Voltage:	230 V    230 V	Delivery head* up to m wc	10
	LVR.:	yes    no	Viscosity** up to mPas	550
			Density**** up to kg/dm³	1.3
	Order No.	<b>0050-001    0050-017</b>	Weight (kg) Motor + pump tube	9.9
	<b>ME II 7</b>		Characteristic curve no.	952
	Output:	795 W    795 W	Flow rate* up to/min.	210
	Voltage:	230 V    230 V	Delivery head* up to m wc	13
	LVR.:	yes    no	Viscosity** up to mPas	400
			Density**** up to kg/dm³	1.4
	Order No.	<b>0050-002    0050-018</b>	Weight (kg) Motor + pump tube	11.1
<p>Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. Compulsory for explosive areas, in case no special measures are taken (e.g. remote control).</p> 	<b>ME II 8</b>		Characteristic curve no.	953
	Output:	930 W    930 W	Flow rate* up to/min.	216
	Voltage:	230 V    230 V	Delivery head* up to m wc	14.5
	LVR.:	yes    no	Viscosity** up to mPas	650
			Density**** up to kg/dm³	1.4
	Order No.	<b>0050-042    0050-041</b>	Weight (kg) Motor + pump tube	11.1
	<b>MD1xL    MD2xL</b>		Characteristic curve no.	954
	Output:	1000 W    1000 W	Flow rate* up to/min.	245
	Operating pressure:	6 bar    6 bar	Delivery head* up to m wc	21
		infinitely variable speed	Viscosity** up to mPas	1000
			Density**** up to kg/dm³	2.8
	Order No.	<b>0004-725    0004-735</b>	Weight (kg) Motor + pump tube	4.6

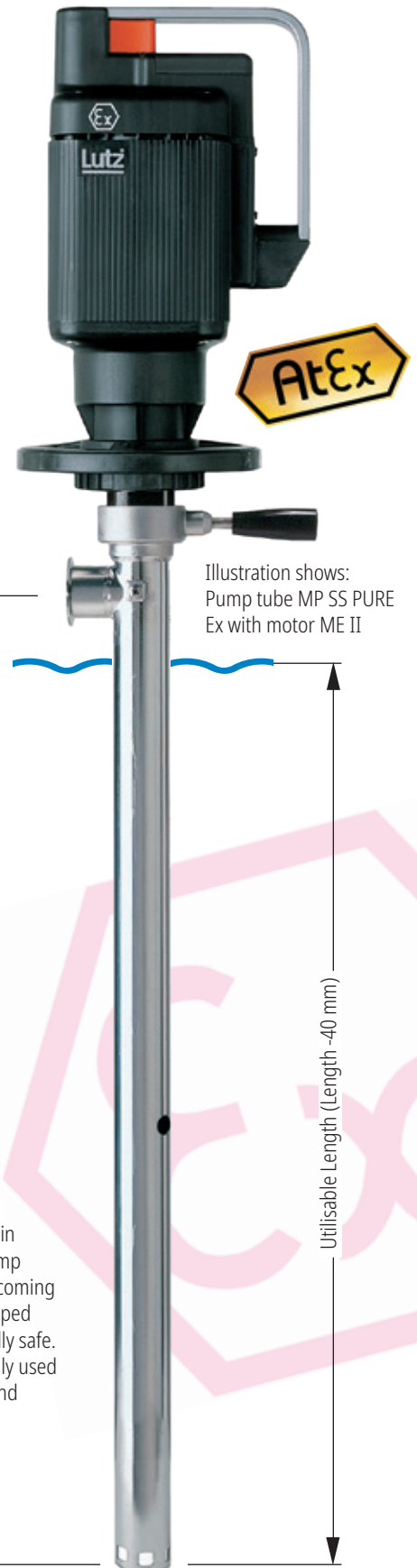
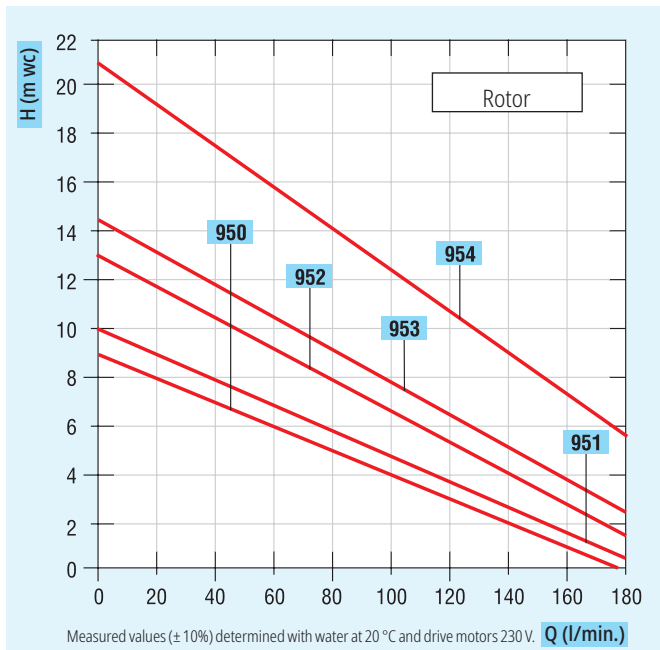
\* Determined with water at 20 °C\*\*\* Special lengths 600–2500 mm on request  
 \*\* Determined with oil  
 \*\*\*\* Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.  
 Special voltages and frequencies on request.

# Pump tube MP-SS PURE (stainless steel)

for mixing and pumping of alcoholic, highly flammable foodstuffs

## Materials (coming into contact with the pumped medium):

Version:	MS-FPM	MS-EPDM
Housing:	stainless steel (1.4571)	stainless steel (1.4571)
Impeller:	ETFE	ETFE
Seals:	FPM, PTFE	EPDM, PTFE
Mechanical seal:	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)
Bearing:	Pure Carbon	Pure Carbon
Drive shaft:	stainless steel (1.4571)	stainless steel (1.4571)



Pump tube also available in PURE version with Tri-Clamp connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Please remember that the flow rate is reduced as the **Viscosity** increases. The **Density** of the pumped liquid similarly affects the flow rate, though to a lesser extent.

# Lutz Eccentric Screw Pumps in PURE Version



## Lutz Eccentric Screw Pumps HD-E SS in PURE Version

The Lutz HD-E combines the advantages of a handy drum pump and the gentle operation of a robust eccentric screw pump. Ideal for pumping viscous raw materials and food products.

- + Ideal for slightly to moderately viscous liquids
- + Gentle product pumping
- + Quiet operation
- + Easy handling
- + Simple cleaning without tools
- + Not filled with lubricants, preventing product contamination



### Properties:

- Displacement pump using the eccentric screw principle Materials in contact with liquids in food quality
- Low pulsation, even pumping flow
- Practically no abrasive effect on the medium
- Compact dimensions
- Easily detachable outer pipe
- High-performance single-phase 230 V/ 50 Hz motor

## Lutz Eccentric Screw Pumps B70V PURE in PURE Version

Lutz B70V PURE series eccentric screw pumps are well-suited for liquids which are highly viscous or susceptible to abrasion, as well as liquids with and without fibre or solid content. Quiet-running, low-wear three-phase drives, or reduction gear and universal or compressed air drive for mobile use.

- + For liquids susceptible to abrasion or highly viscous liquids
- + Gentle product pumping
- + Variable flow rate (in conjunction with speed controller / frequency converter)
- + Easy handling
- + Quick-action motor coupling enables the motor and pump tube to be connected and separated quickly
- + Quick to dismantle, easy to clean
- + Not filled with lubricants, preventing product contamination



### Properties:

- Displacement pump using the eccentric screw principle
- Materials in contact with liquids in food quality
- Low pulsation, even pumping flow
- Practically no abrasive effect on the medium
- Easily detachable outer pipe
- For mobile and stationary use
- Optionally available with integrated frequency converter



# Lutz Eccentric Screw Pumps

## Lutz HD-E PURE for medium viscous foodstuffs



### The intelligent solution for the pumping of medium viscosity liquids

High efficiency, handy, low weight and easily disassembled for easy cleaning make the Lutz HD-E a practical drum pump system especially for medium viscosity liquids.

It is suitable for pumping acids and basic liquids, oils, used oil, waste disposal liquids, colours, foodstuffs, cosmetics and creams.

- ✓ Light and compact
- ✓ Simple and easily dismantled
- ✓ Easy to clean
- ✓ Suitable for continuous operation
- ✓ Practical Lutz hand wheel for motor separation and to carry
- ✓ Smooth flow
- ✓ For thin and thick liquids
- ✓ Constant volumetric flow

### Product detail

#### Pump tube

#### HD-E PURE



Category 1 / 2 (acc. to ATEX)		no
Immersion tube diameter:	up to mm	41
Temperature of medium:	up to °C	100
Material:	Pump tube	Stainless steel (1.4571)
	Stator	PTFE
Hose connection:	Tri-Clamp DN	32
Length: 1000 mm ▲*	Order No. basic pump	<b>0155-010</b>

Version: PURE FPM ▲	Order No. additional price	<b>0155-016</b>
Version: PURE EPDM ▲	Order No. additional price	<b>0155-017</b>

▲ Please choose Order No. basic pump + Order No. PURE additional price

#### Choice of motors

#### Operating data



<b>Single phase motor</b>			
Output:	0.55 kW	Delivery rate up to l/min.	20
Voltage:	230 V	Delivery head up to bar	4
Speed:	1500 1/min	Viscosity mPas	500-4000
Protection type:	IP 54	Weight (kg) Motor + pump tube	11.5
Order No.	<b>0155-032</b>		

\* Special lengths 600–1500 mm on request

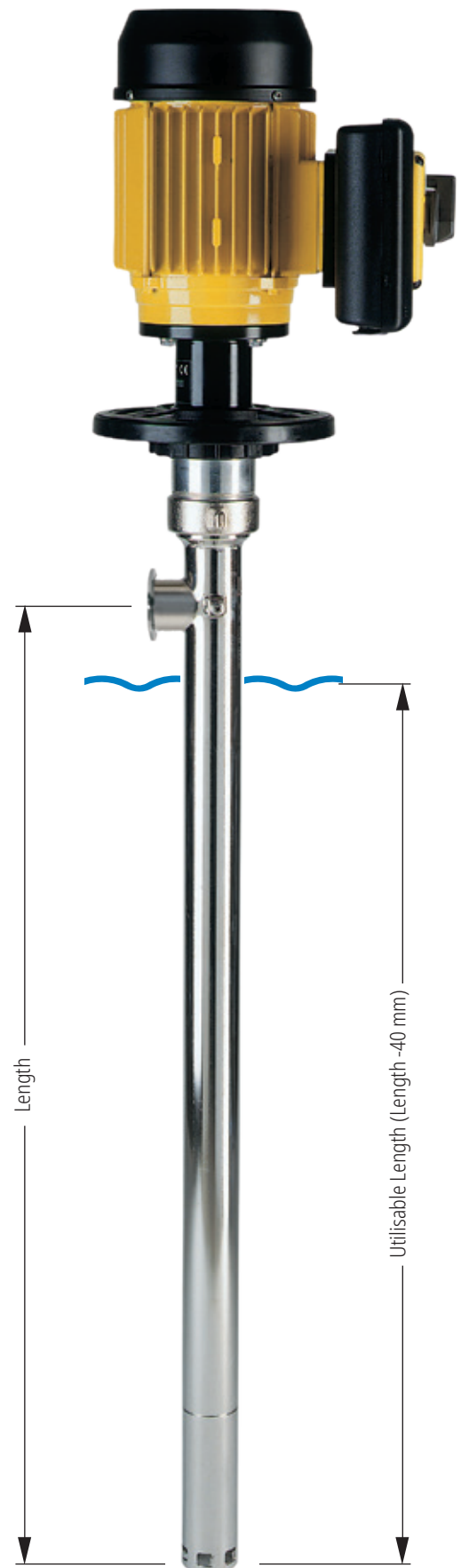
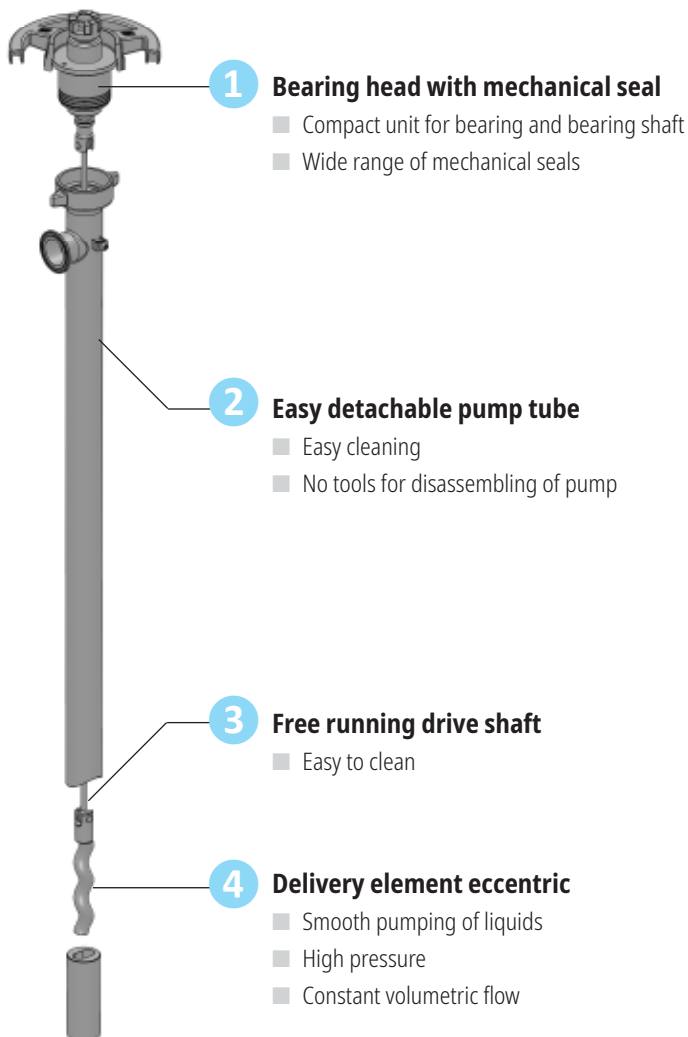


## Materials (coming into contact with the pumped medium)

Version:	HD-E PURE FPM	HD-E PURE EPDM
Pump tube:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator:	PTFE	PTFE
Mechanical seal:	Stainless steel/Carbon/FPM	Stainless steel/Carbon/EPDM
Secondary seal:	FPM	EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)







Pump tube in PURE version also available with Tri-Clamp-connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.



# Lutz Eccentric Screw Pumps

## B70V-SR 12.1, 25.1 and 50.1 PURE for viscous foodstuffs

Product detail		Pump tubes		B70V-SR PURE					
	Size		<b>12.1</b>	<b>12.1</b>	<b>25.1</b>	<b>25.1</b>	<b>50.1</b>	<b>50.1</b>	
	Category 1 / 2 (acc. to ATEX)		no	yes	no	yes	no	yes	
	Seal	Packing gland (St)		MS	MS	MS	MS	MS	MS
		Mechanical seal (MS)							
	Drive shaft	Torsion shaft (TS)		TS	UJ	TS	UJ	TS	UJ
		Universal joint shaft (UJ)							
	Delivery rate*	up to l/min.		12	12	25	25	50	50
	Delivery head*	up to bar		6	6	6	6	6	6
	Temp. of medium**	up to °C		140	140	140	140	140	140
	Material pump tube			1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404
	Material stator			PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	Immersion tube diameter	mm		54	54	54	54	54	54
	Pressure joint	Tri-Clamp DN		50	50	50	50	50	50
	Weight	kg		7	7	7	7	7	7
	Length***	mm		1000	1000	1000	1000	1100	1100
Order No. basic pump ▲			<b>0174-014</b>	<b>0174-024</b>	<b>0174-134</b>	<b>0174-144</b>	<b>0174-514</b>	<b>0174-524</b>	
Order No. additional price PURE FPM ▲			<b>0172-128</b>	<b>0173-138</b>	<b>0172-128</b>	<b>0173-138</b>	<b>0172-128</b>	<b>0173-138</b>	
Order No. additional price PURE EPDM ▲			<b>0172-129</b>	<b>0173-139</b>	<b>0172-129</b>	<b>0173-139</b>	<b>0172-129</b>	<b>0173-139</b>	
▲ Please choose Order No. basic pump + Order No. PURE additional price									
* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator									
** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)									
*** Special length 500 - 2000 mm on request (version with joint shaft only)									
● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIA and temperature class T4									
									
<b>Choice of motors</b>									
	<b>Universal motors non-ex. proof</b>	<b>MI 4</b>	<b>MI 4-E</b>	<b>MA II 3</b>	<b>MA II 5</b>	<b>MA II 7</b>			
	Type	500 W, 230 V	500 W, 230 V	460 W, 230 V	575 W, 230 V	795 W, 230 V			
	Protection type/Weight	IP 24 2.8 kg without speed controller	IP 24 2.8 kg with speed controller	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg			
	Order-No. (without low-voltage release)	<b>0030-000</b>	<b>0030-001</b>	<b>0060-000</b>	<b>0060-001</b>	<b>0060-002</b>			
	Order-No. (with low-voltage release)	-	-	<b>0060-008</b>	<b>0060-009</b>	<b>0060-010</b>			
	<b>Universal motors ex. proof</b>	<b>ME II 3</b>	<b>ME II 5</b>	<b>ME II 7</b>	<b>ME II 8</b>				
	Type	460 W, 230 V	580 W, 230 V	795 W, 230 V	930 W, 230 V				
	Protection type/Weight	IP 54 5.5 kg	IP 54 6.3 kg	IP 54 7.5 kg	IP 54 8 kg				
	Order-No. (with low-voltage release)	<b>0050-000</b>	<b>0050-001</b>	<b>0050-002</b>	<b>0050-042</b>				
	Order-No. (without low-voltage release)	<b>0050-016</b>	<b>0050-017</b>	<b>0050-018</b>	<b>0050-041</b>				

# B70V-SR 12.1, 25.1 and 50.1 PURE

for viscosities from 1 - 30,000 mPas

## Materials (coming into contact with the pumped medium):

Version:	B70V-SR PURE PTFE/FPM	B70V-SR PURE PTFE/EPDM
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	EPDM
Mechanical seal:		
Torsion shaft	WC/SiC/FPM	WC/SiC/EPDM
Universal joint shaft	WC/WC/FPM	WC/WC/EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	PTFE	PTFE



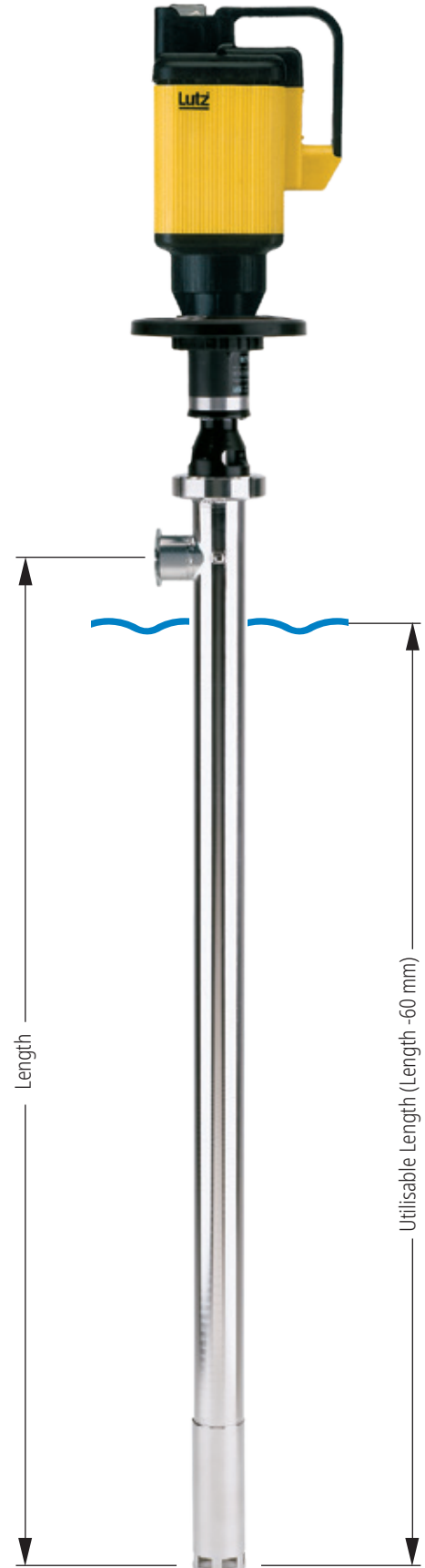
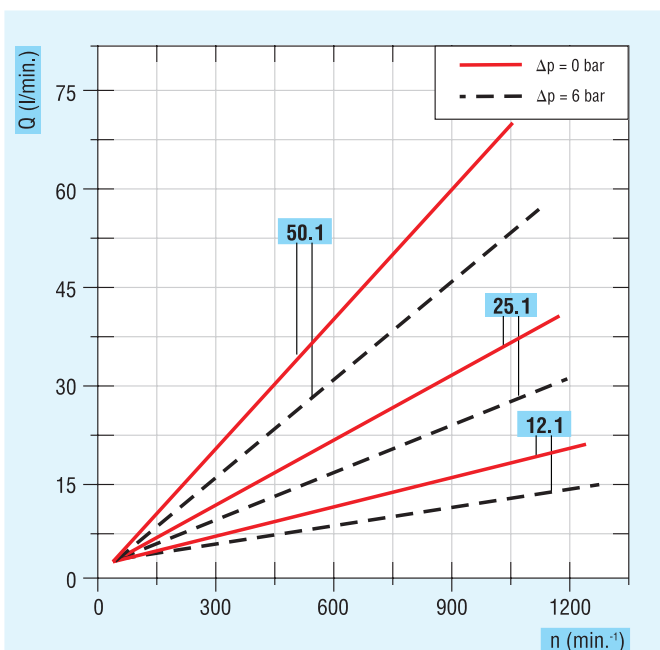
Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

## Important Information!

When pumping in „Zone 0“ areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.




Viscosity range from aqueous to fluidity range.

Medium table with liquid examples see chemical resistance table.



# Lutz Eccentric Screw Pumps

## B70V 12.1 and 25.1 PURE for viscous foodstuffs

Product detail		Pump tubes				B70V PURE				
	Size		<b>12.1</b>	<b>12.1</b>	<b>25.1</b>	<b>25.1</b>				
	Category 1 / 2 (acc. to ATEX)		no	yes	no	yes				
	Seal	Mechanical seal (MS)	MS	MS	MS	MS				
	Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	TS	UJ				
	Delivery rate*	up to l/min.	12	12	25	25				
	Delivery head*	up to bar	6	6	6	6				
	Temp. of medium**	up to °C	140	140	140	140				
	Material pump tube		1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404				
	Material stator		PTFE	PTFE	PTFE	PTFE				
	Immersion tube diameter	mm	54	54	54	54				
	Pressure joint	Tri-Clamp DN	50	50	50	50				
	Weight	kg	7	7	7	7				
	Length***	mm	1000	1000	1000	1000				
	Order No. basic pump ▲		<b>0172-004</b>	<b>0173-014</b>	<b>0172-124</b>	<b>0173-134</b>				
	Order No. additional price PURE FPM ▲		<b>0172-128</b>	<b>0173-138</b>	<b>0172-128</b>	<b>0173-138</b>				
Order No. additional price PURE EPDM ▲		<b>0172-129</b>	<b>0173-139</b>	<b>0172-129</b>	<b>0173-139</b>					
▲ Please choose Order No. basic pump + Order No. PURE additional price										
* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator										
** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)										
*** Special length 500 - 2000 mm on request (version with joint shaft only)										
● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIA and temperature class T4										
										
<b>Choice of motors</b>										
	<b>Motors with cable terminal box</b>		<b>For B70V - 12.1</b>		<b>For B70V - 25.1</b>					
	Type		0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.75 kW, 900 1/min.				
	Protection type/Weight		IP 55 16 kg	IP 55 12 kg	IP 55 16 kg	IP 55 22 kg				
	Order-No.		<b>0172+803</b>	<b>0172+806</b>	<b>0172+809</b>	<b>0172-901</b>				
	<b>Motors with protection switch</b>		<b>For B70V - 12.1</b>		<b>For B70V - 25.1</b>					
	Type		0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.75 kW, 900 1/min.				
	Protection type/Weight		IP 54 16 kg	IP 54 12 kg	IP 54 16 kg	IP 54 22 kg				
	Order-No.		<b>0172+802</b>	<b>0172+805</b>	<b>0172+808</b>	<b>0172-900</b>				
	<b>Motors, explosion proof</b>		<b>For B70V - 12.1</b>		<b>For B70V - 25.1</b>					
	Type		0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.65 kW, 900 1/min.				
	Identification		II 2 G Ex e II T3	II 2 G Ex e II T3	II 2 G Ex e II T3	II 2 G Ex e II T3				
	Protection type/Weight		IP 55 19 kg	IP 55 17 kg	IP 55 22 kg	IP 55 20 kg				
	Order-No.		<b>0172-801</b>	<b>0172-804</b>	<b>0172-807</b>	<b>0172-810</b>				
	<b>Motors with frequency converter</b>		<b>For B70V - 12.1</b>		<b>For B70V - 25.1</b>					
	Type		0.55 kW, 0-900 1/min.		0.55 kW, 0-900 1/min.	0.75 kW, 0-900 1/min.				
Protection type/Weight		IP 55 16 kg		IP 55 16 kg	IP 55 22 kg					
Order-No.		<b>0172-769</b>		<b>0172-769</b>	<b>0172-768</b>					

Three-phase motor  
230/400 V, 50 Hz,  
Energy efficiency class  
IE 3 in accordance with  
EU regulations 640/2009  
and 04/2014.

Special voltages,  
frequencies, protection  
types as well as higher  
explosion proof  
protection classes on  
request.

# B70V 12.1 and 25.1 PURE

for viscosities from 1 - 100,000 mPas

## Materials (coming into contact with the pumped medium):

Version:	B70V PURE PTFE/FPM	B70V PURE PTFE/EPDM
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	EPDM
Mechanical seal:		
Torsion shaft	WC/SiC/FPM	WC/SiC/EPDM
Universal joint shaft	WC/WC/FPM	WC/WC/EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	PTFE	PTFE



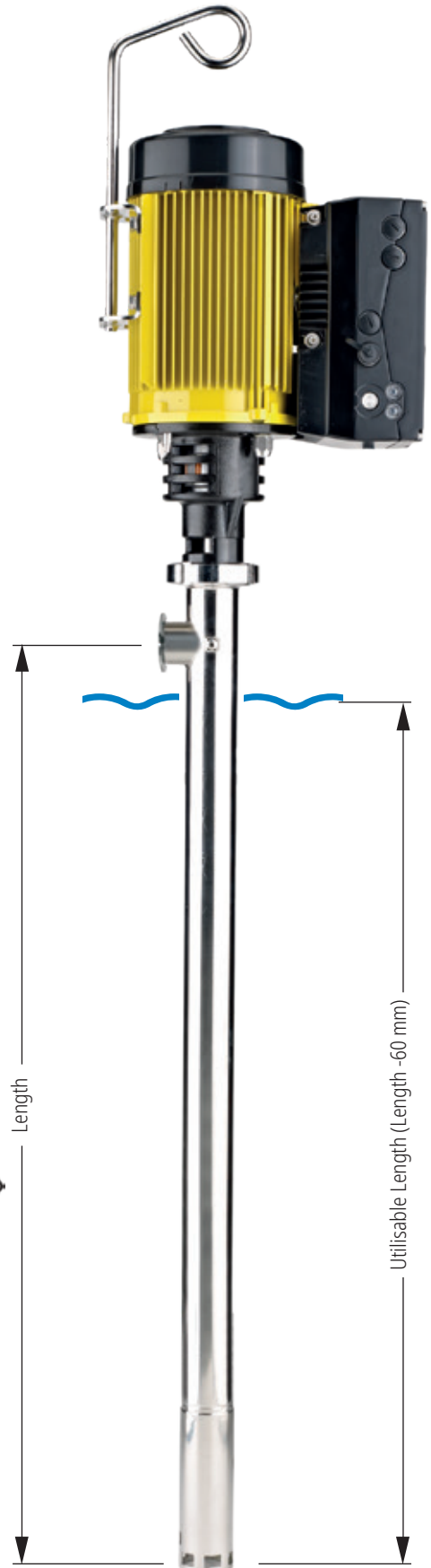
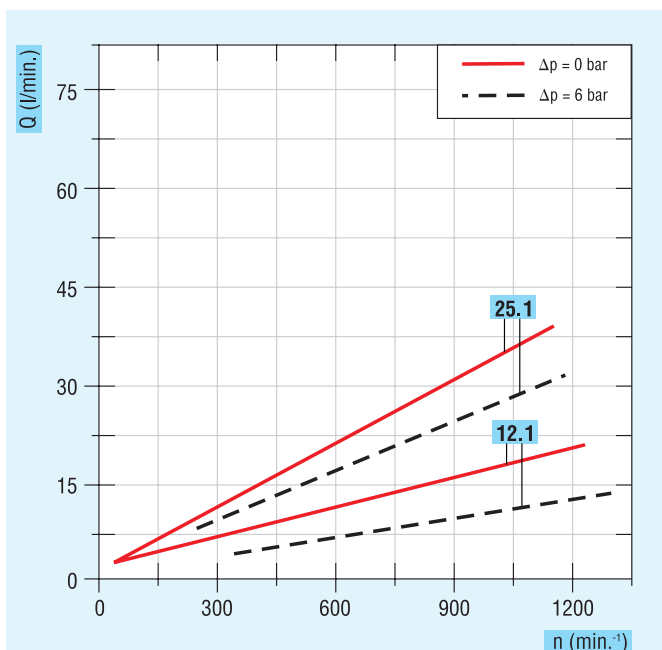
Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

## Important Information!

When pumping in „Zone 0“ areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.




Viscosity range from aqueous to fluidity range.

Medium table with liquid examples see chemical resistance table.



# Lutz Eccentric Screw Pumps

## B70V 25.2 PURE for viscous foodstuffs

Product detail		Pump tubes		B70V PURE		
	Size		<b>25.2</b>		<b>25.2</b>	
	Category 1 / 2 (acc. to ATEX)		no		yes	
	Seal	Packing gland (St)		MS		MS
		Mechanical seal (MS)				
	Drive shaft	Torsion shaft (TS)		TS		UJ
		Universal joint shaft (UJ)				
	Delivery rate*	up to l/min.		25		25
	Delivery head*	up to bar		10		10
	Temp. of medium**	up to °C		140		140
	Material pump tube			1.4571/1.4404		1.4571/1.4404
	Material stator			PTFE		PTFE
	Immersion tube diameter	mm		54		54
	Pressure joint	Tri-Clamp DN		50		50
	Weight	kg		7		7
	Length***	mm		1100		1100
Order No. basic pump ▲			<b>0172-254</b>		<b>0173-264</b>	
Order No. additional price PURE FPM ▲			<b>0172-128</b>		<b>0173-138</b>	
Order No. additional price PURE EPDM ▲			<b>0172-129</b>		<b>0173-139</b>	
▲ Please choose Order No. basic pump + Order No. PURE additional price						
* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator						
** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)						
*** Special length 500 - 2000 mm on request (version with joint shaft only)						
● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIA and temperature class T4						
						
<b>Choice of motors</b>						
	<b>Motors with cable terminal box</b>		<b>For B70V - 25.2</b>			
	Type		0.75 kW, 700 1/min.		1.1 kW, 900 1/min.	
	Protection type/Weight		IP 55 18 kg		IP 55 34 kg	
	Order-No.		<b>0172+815</b>		<b>0172-903</b>	
	<b>Motors with protection switch</b>		<b>For B70V - 25.2</b>			
	Type		0.75 kW, 700 1/min.		1.1 kW, 900 1/min.	
	Protection type/Weight		IP 54 18 kg		IP 54 34 kg	
	Order-No.		<b>0172+814</b>		<b>0172-902</b>	
	<b>Motors, explosion proof</b>		<b>For B70V - 25.2</b>			
	Type		0.65 kW, 700 1/min.		0.95 kW, 900 1/min.	
Identification		II 2 G Ex e II T3		II 2 G Ex e II T3		
Protection type/Weight		IP 55 27 kg		IP 55 23 kg		
Order-No.		<b>0172-813</b>		<b>0172-816</b>		
<b>Motors with frequency converter</b>		<b>For B70V - 25.2</b>				
Type		1.1 kW, 0-900 1/min.				
Protection type/Weight		IP 55 25 kg				
Order-No.		<b>0172-767</b>				

Three-phase motor 230/400 V, 50 Hz, Energy efficiency class IE 3 in accordance with EU regulations 640/2009 and 04/2014.

Special voltages, frequencies, protection types as well as higher explosion proof protection classes on request.

# B70V 25.2 PURE

for viscosities from 1 - 100,000 mPas

## Materials (coming into contact with the pumped medium):

Version:	B70V PURE PTFE/FPM	B70V PURE PTFE/EPDM
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	FPM or EPDM
Mechanical seal:		
Torsion shaft	WC/SiC/FPM	WC/SiC/EPDM
Universal joint shaft	WC/WC/FPM	WC/WC/EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	PTFE	PTFE



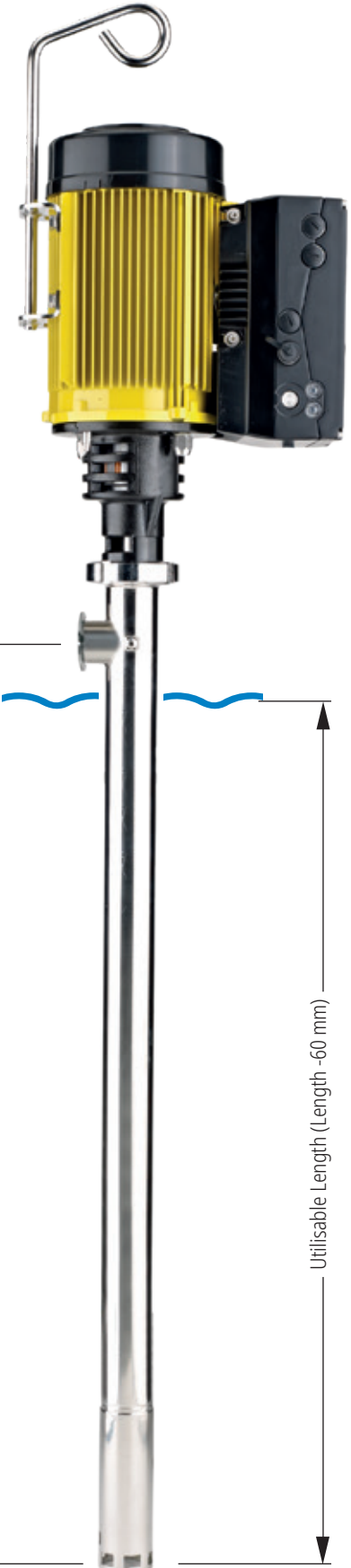
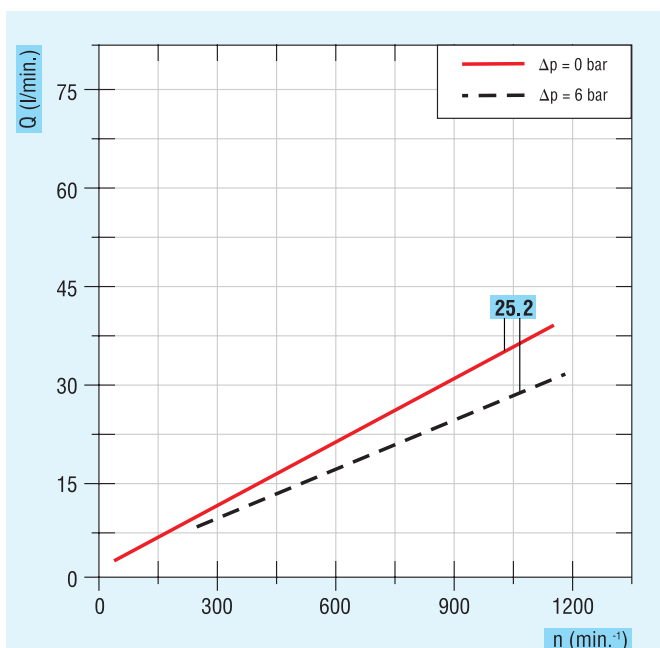
Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

## Important Information!

When pumping in „Zone 0“ areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.


Viscosity range from aqueous to fluidity range.

Medium table with liquid examples see chemical resistance table.



# Lutz Eccentric Screw Pumps

## B70V 50.1 and 75.1 PURE for viscous foodstuffs

Product detail		Pump tubes		B70V PURE			
	Size		<b>50.1</b>	<b>50.1</b>	<b>75.1</b>		
	Category 1 / 2 (acc. to ATEX)		no	yes	no		
	Seal	Packing gland (St)		MS	MS	MS	
		Mechanical seal (MS)					
	Drive shaft	Torsion shaft (TS)		TS	UJ	UJ	
		Universal joint shaft (UJ)					
	Delivery rate*	up to l/min.		50	50	75	
	Delivery head*	up to bar		6	6	6	
	Temp. of medium**	up to °C		140	140	140	
	Material pump tube			1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	
	Material stator			PTFE	PTFE	PTFE	
	Immersion tube diameter	mm		54	54	54	
	Pressure joint	Tri-Clamp DN		50	50	50	
	Weight	kg		7	7	7	
	Length***	mm		1100	1100	1100	
Order No. basic pump ▲			<b>0172-504</b>	<b>0173-514</b>	<b>0173-564</b>		
Order No. additional price PURE FPM ▲			<b>0172-128</b>	<b>0173-138</b>	<b>0173-140</b>		
Order No. additional price PURE EPDM ▲			<b>0172-129</b>	<b>0173-139</b>	<b>0173-141</b>		

▲ Please choose Order No. basic pump + Order No. PURE additional price

\* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator

\*\* with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)

\*\*\* Special length 500 - 2000 mm on request (version with joint shaft only)

- Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIA and temperature class T4



### Choice of motors

Motors with cable terminal box	For B70V - 50.1		
Type	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.	
Protection type/Weight	IP 55 22 kg	IP 55 34 kg	
Order-No.	<b>0172+826</b>	<b>0172-903</b>	
Motors with cable terminal box	For B70V - 75.1		
Type	1.1 kW, 700 1/min.	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
Protection type/Weight	IP 55 22 kg	IP 55 34 kg	IP 55 34 kg
Order-No.	<b>0172+826</b>	<b>0172-761</b>	<b>0172-905</b>
Motors with protection switch	For B70V - 50.1		
Type	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.	
Protection type/Weight	IP 54 22 kg	IP 54 34 kg	
Order-No.	<b>0172+825</b>	<b>0172-902</b>	
Motors with protection switch	For B70V - 75.1		
Type	1.1 kW, 700 1/min.	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
Protection type/Weight	IP 54 22 kg	IP 54 34 kg	IP 54 34 kg
Order-No.	<b>0172+825</b>	<b>0172-760</b>	<b>0172-904</b>
Motors, explosion proof	For B70V - 50.1		
Type	0.65 kW, 700 1/min.	0.95 kW, 900 1/min.	
Identification	II 2 G Ex e II T3	II 2 G Ex e II T3	
Protection type/Weight	IP 55 27 kg	IP 55 23 kg	
Order-No.	<b>0172-813</b>	<b>0172-816</b>	
Motors with frequency converter	For B70V - 50.1	For B70V - 75.1	
Type	1.1 kW, 0-900 1/min.	1.5 kW, 0-900 1/min.	
Protection type/Weight	IP 55 25 kg	IP 55 37 kg	
Order-No.	<b>0172-767</b>	<b>0172-766</b>	



Three-phase motor  
230/400 V, 50 Hz,  
Energy efficiency class  
IE 3 in accordance with  
EU regulations 640/2009  
and 04/2014.

Special voltages,  
frequencies, protection  
types as well as higher  
explosion proof  
protection classes on  
request.



# B70V 50.1 and 75.1 PURE

for viscosities from 1 - 100,000 mPas

## Materials (coming into contact with the pumped medium):

Version:	B70V PURE PTFE/FPM	B70V PURE PTFE/EPDM
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	EPDM
Mechanical seal:		
Torsion shaft	WC/SiC/FPM	WC/SiC/EPDM
Universal joint shaft	WC/WC/FPM	WC/WC/EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	PTFE	PTFE



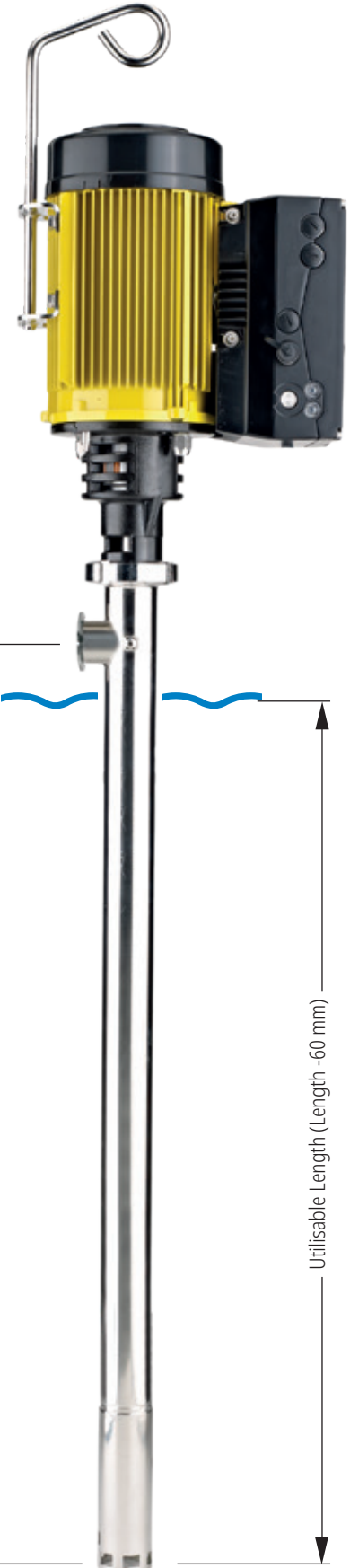
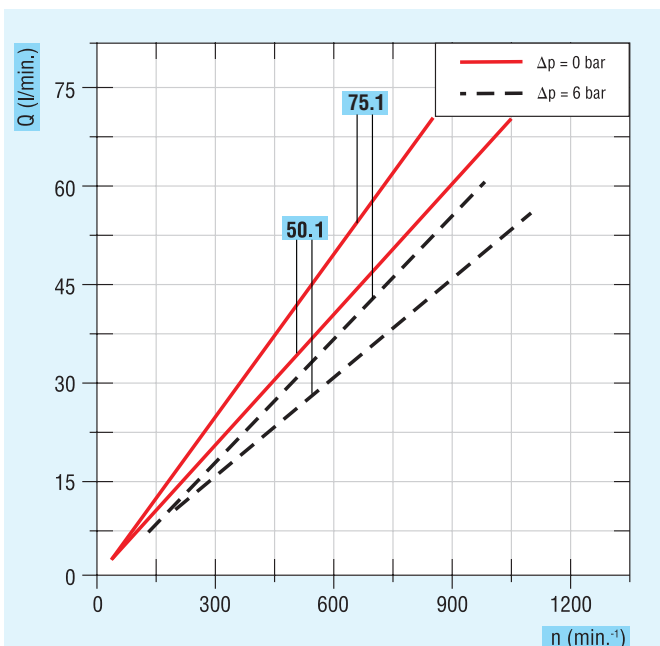
Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

## Important Information!

When pumping in „Zone 0“ areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.

Viscosity range from aqueous to fluidity range.

Medium table with liquid examples see chemical resistance table.



# Lutz Eccentric Screw Pumps

## B70V 120.1 PURE for viscous and pasty foodstuffs

### Product detail



Pump tubes		B70V PURE
Size		<b>120.1</b>
Category 1 / 2 (acc. to ATEX)		no
Seal	Mechanical seal (MS)	MS
Drive shaft	Universal joint shaft (UJ)	UJ
Delivery rate*	up to l/min.	120
Delivery head*	up to bar	6
Temp. of medium	up to °C	140
Material pump tube		1.4571
Material stator		PTFE
Pump diameter**	up to mm	131
Pressure joint	Tri-Clamp DN	50
Weight	kg	21
Length***	mm	1100
Order No. basic pump ▲		<b>0175-204</b>
Order No. additional price PURE FPM ▲		<b>0175-208</b>
Order No. additional price PURE EPDM ▲		<b>0175-209</b>

▲ Please choose Order-No. basic pump + Order-No. PURE additional price

\* Determined with water at 20 °C, three-phase motor (600 rpm and 700 rpm) and elastomer stator

\*\* required bunghole ø 133 mm

\*\*\* Special length 500 - 2000 mm on request

### Choice of motors

Motors with cable terminal box	For B70V - 120.1	
Type	2.2 kW, 600 1/min.	3.0 kW, 600 1/min.
Protection type/Weight	IP 55 42 kg	IP 55 47 kg
Order-No.	<b>0175-802</b>	<b>0175-803</b>

Motors with frequency converter	For B70V - 120.1	
Type	3.0 kW, 0-600 1/min.	
Protection type/Weight	IP 55 45 kg	
Order-No.	<b>0175+802</b>	



Three-phase motor 230/400 V, 50 Hz,  
Energy efficiency class IE 3 in accordance with EU regulations 640/2009 and 04/2014.  
Special voltages, frequencies, protection types on request.

# B70V 120.1 PURE

for viscosities from 1 - 120.000 mPas

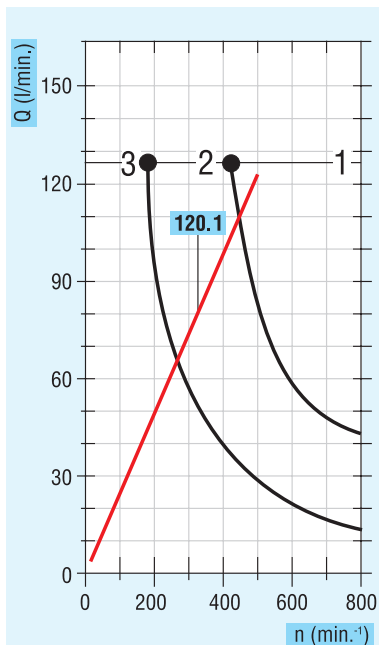
## Materials (coming into contact with the pumped medium):

Version:	B70V PURE PTFE/FPM	B70V PURE PTFE/EPDM
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	EPDM
Mechanical seal:*	WC/WC, FPM	WC/WC, EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	PTFE	PTFE

\* Mechanical seal pairing on request.



Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.



### Range 1:

Thin-bodied and lubricating fluids such as wine, milk, oils etc.  
 $\eta < 7000$  mPas

### Range 2:

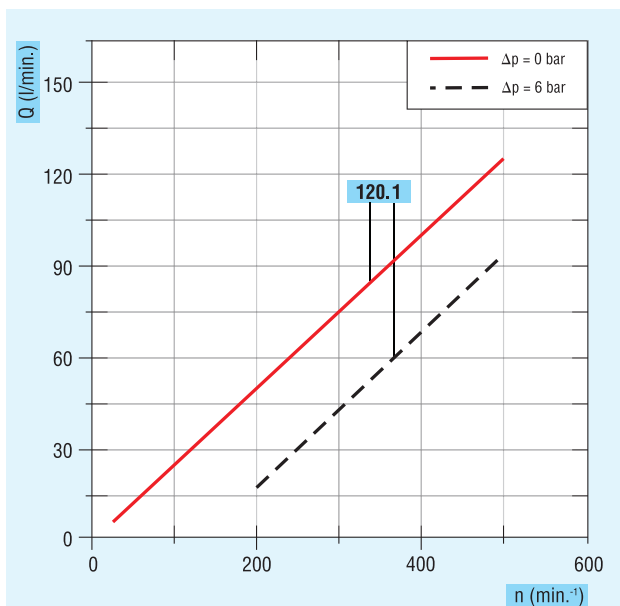
Abrasive and viscous fluids such as pulps, adhesives, paints, inks, etc.  
 $\eta < 20,000$  mPas

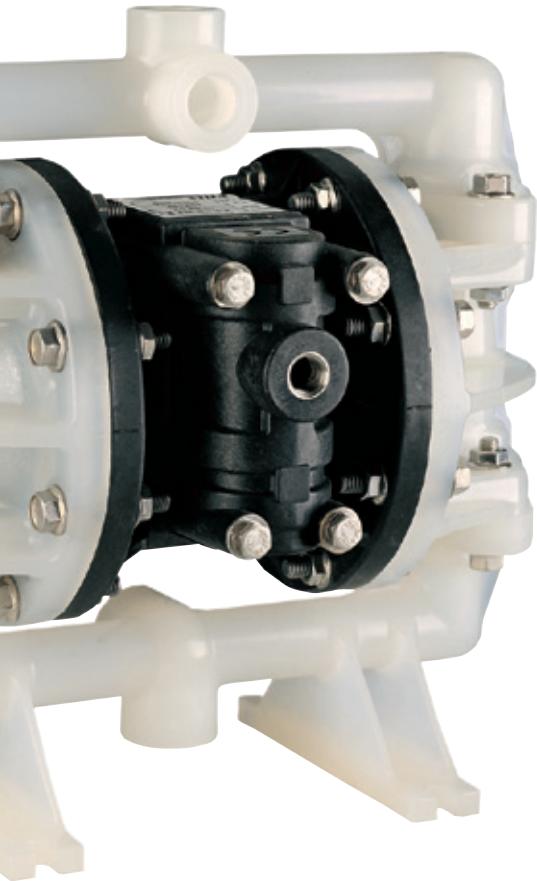
### Range 3:

Very abrasive and highly viscous fluids such as honey, greases, syrups, etc.  
 $\eta > 20,000$  mPas

### Viscosity range:

Up to limit of flowability





## FDA-conform Double Diaphragm Pump DMP 1/2"-1" Made of Plastic

In order to ensure a reliable filling process, the hoses, nozzles and curved spouts meet the requirements of the food and beverage industry.



### Other accessories for food and beverages

In order to ensure a reliable filling process, the hoses, nozzles and curved spouts meet the requirements of the food and beverage industry.



### Certified Quality

All materials used have been tested and conform to the required standards. Our high quality standards are certified by a declaration of conformity.



## Lutz Flow Meter

### TS VA10 SS in PURE Version

The VA10 SS PURE flow measurement device with touch screen display and backlighting is very impressive thanks to its simple, practical display and user-friendly operation, multi-language interface and compact construction.

The user guide with instructions in plain text, system reporting and assistance texts as well as safety and monitoring functions virtually eliminate the possibility of errors. It can also be operated manually or by external control.

- + Precise volume detection of liquid food products and raw materials
- + Practical display and user-friendly operation
- + User-error protection
- + High measurement precision thanks to overrun correction
- + Simple calibration
- + Easy installation and starting up
- + External control / data evaluation via standard interfaces



#### Properties:

- Operates via nutating disc
- Materials in contact with liquids in food quality
- Touch screen display
- Multi-language menu guide
- Instructions in plain text
- Integrated assistance function
- Safety and monitoring functions
- With and without volume preselection
- "Plug & Play" module concept
- Explosion-proof versions approved in accordance with the ATEX Directive 2014/34/EU Category 1/2



#### Volume preset

A relay module which can be integrated into the metering system automatically shuts off the pump motor and/or solenoid valve once the volume preset has been reached.


# Flow measurement without volume preselection - TS

for aqueous, fatty and highly flammable foodstuffs



Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.



Technical data	Type VA10 PURE	Type VA10 Ex PURE
Range of use	aqueous and fatty foodstuffs	highly flammable foodstuffs
Flow volume	l/min. min. 10 – max. 100	min. 10 – max. 100
Temperature	°C 80	60
Viscosity	mPas 5.000	5.000
Operating pressure	bar 10	10
Accuracy	± 1%	± 1%
Inlet and Outlet port	Tri-Clamp DN 32	Tri-Clamp DN 32
LCD display	Touch-Screen 63x63 mm, 128x128 pixels, sub-total volume can be reset	
Menu language	DE, GB, ES, FR, IT, NL, PT, RU	
Materials:		
Housing	Stainless steel (1.4581/1.4571)*	Stainless steel (1.4581/1.4571)*
Measuring chamber	Stainless steel (1.4581/1.4571) PTFE/PVDF	Stainless steel (1.4581/1.4571) PTFE/PVDF/PE
Seals	FEP	FEP
Magnet	PVDF encapsulated	PVDF encapsulated
Identification:		
Operating unit	–	II 2 G Ex ib IIB T4** 
Basic flow meter	–	II 2 G T4
Protection type	IP 55	IP 55
Weight	kg 3.7	3.7
<b>Order-No. basic flow meter ^</b>	<b>0231-049</b>	<b>0231-040 ●</b>

\* Special materials on request General information to the chemical resistance of the different flow meters you will find in our chemical resistance list.

\*\* Identification II 2 G Ex ib IIC T4 on request.

Order-No. PURE additional price	0230-330	0230-331
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^ Please choose Order-No. basic flow meter + Order-No. PURE additional price

Recommended Accessories: Power supply unit NG10***		
Voltage	V	220-240
Frequency	Hz	50-60
<b>Order-No.</b>		<b>0230-230</b>

\*\*\* Limited battery operation without power supply unit possible.

● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol) or in explosive hazard area.


# Flow measurement with volume preselection - TS

for aqueous, fatty and highly flammable foodstuffs



Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.



Technical data		Type VA10/RM10 PURE	Type VA10/Ex-RM10dK PURE
Range of use		aqueous and fatty foodstuffs	highly flammable foodstuffs
Flow volume	l/min.	min. 10 – max. 100	min. 10 – max. 100
Temperature	°C	80	40
Viscosity	mPas	5.000	5.000
Operating pressure	bar	10	10
Accuracy		± 1%	± 1%
Inlet and Outlet port		Tri-Clamp DN 32	Tri-Clamp DN 32
LCD display		Touch-Screen 63x63 mm, 128x128 pixels, sub-total volume can be reset	
Menu language		DE, GB, ES, FR, IT, NL, PT, RU	
Materials:			
Housing		Stainless steel (1.4581/1.4571)*	Stainless steel (1.4581/1.4571)*
Measuring chamber		Stainless steel (1.4581/1.4571) PTFE/PVDF	Stainless steel (1.4581/1.4571) PTFE/PVDF/PE
Seals		FEP	FEP
Magnet		PVDF encapsulated	PVDF encapsulated
Identification:			
Operating unit		–	II 2 G Ex ib IIB T4** 
Basic flow meter		–	II 2 G T4
Protection type		IP 55	IP 55
Weight	kg	4.1	6.7
<b>Relay module</b>		<b>RM10 230 V</b>	<b>Ex-RM10dK 230 V</b>
Voltage	V	220-240	220-240
Frequency	Hz	50-60	50-60
Switching outputs		2 NO (potentially bound)	2 NO (potentially bound)
Outpump 1 (pump)		8 A, cosφ > 0.7	8 A, cosφ > 0.7
Output 2 (valve)		0.5 A	0.5 A
Identification		–	II 2 G Ex de [ib Gb] IIC T6 Gb
<b>Order-No. basic flow meter<sup>▲</sup></b>		<b>0231-041</b>	<b>0231-040 ● + 0230-251 ●</b>
<b>Order-No. PURE additional price<sup>▲</sup></b>		<b>0230-330</b>	<b>0230-331</b>

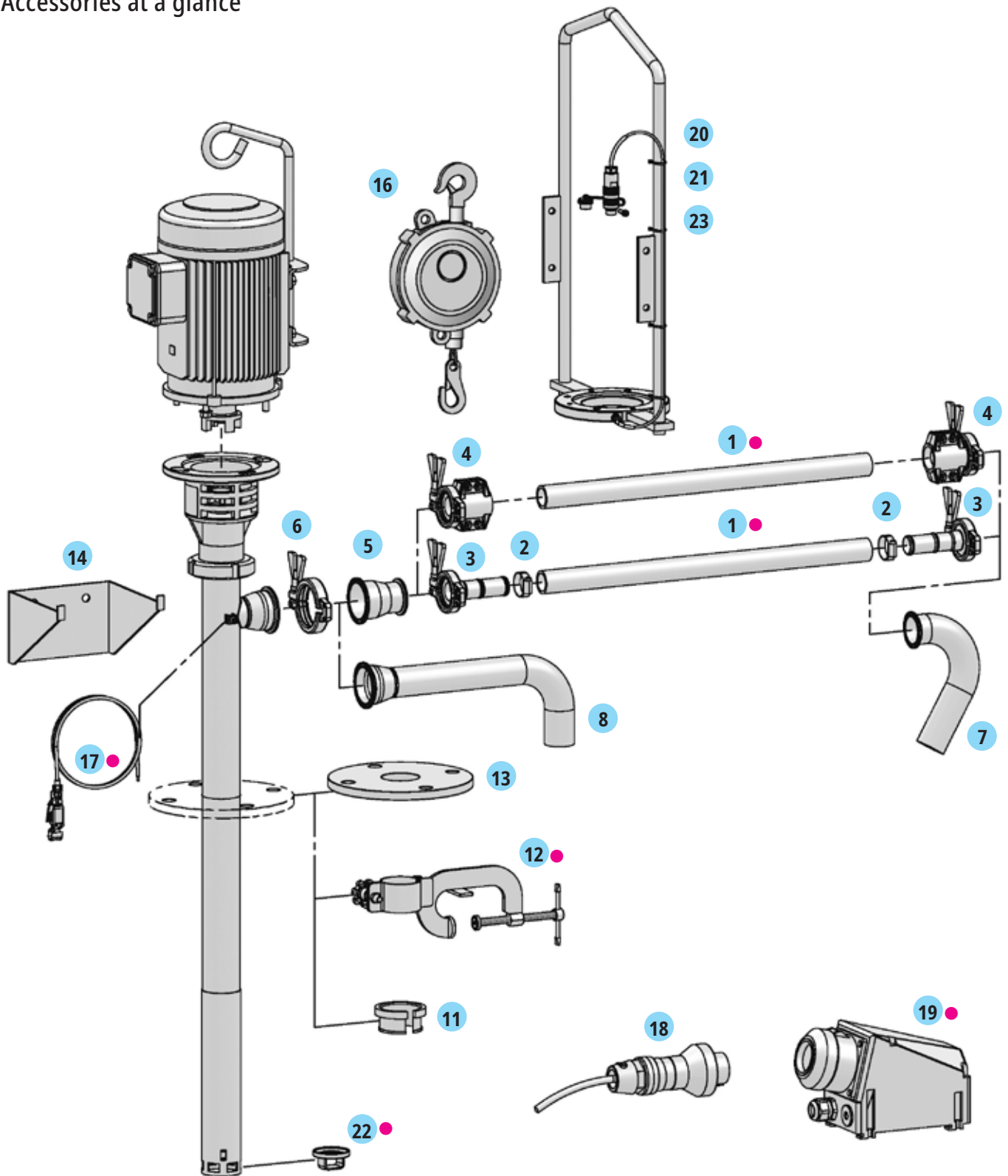
\* Special materials on request General information to the chemical resistance of the different flow meters you will find in our chemical resistance list.

\*\* Identification II 2 G Ex ib IIC T4 on request.

<sup>▲</sup>Please choose Order-No. basic flow meter + Order-No. PURE additional price

# Accessories

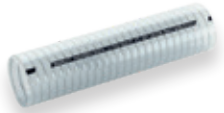
## Accessories at a glance



- |                                     |   |  |
|-------------------------------------|---|--|
| <b>1</b> ● Hose                     | <b>8</b> ● Discharge spout              | <b>18</b> ● Ex-plug                            |
| <b>2</b> ● Hose clip                | <b>11</b> ● Drum adapter                | <b>19</b> ● Ex-socket                          |
| <b>3</b> ● Hose connection          | <b>12</b> ● Clamping device             | <b>20</b> ● Lifting device                     |
| <b>4</b> ● Hose connector           | <b>13</b> ● Installation flange         | <b>21</b> ● Impulse transmitter                |
| <b>5</b> ● Tri-Clamp reducing piece | <b>14</b> ● Wall bracket                | <b>22</b> ● Protection device for drum inliner |
| <b>6</b> ● Tri-Clamp locking clamp  | <b>16</b> ● Balancer                    | <b>23</b> ● Operating unit                     |
| <b>7</b> ● Discharge spout          | <b>17</b> ● Equipotential bonding cable |  |


● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol) or in explosive hazard area.



Specification	Order-No.	Product detail								
<p><b>1 PVC spiral hose, fabric reinforced</b></p> <p>Hose for food liquids made of PVC with woven layer and imbedded galvanized steel helix, inside and outside smooth, complies with EU-regulations 10/2011 and 1935/2004.</p> <p>Operating pressure: max. 14 bar            Temperature of medium: -5 °C up to +65 °C            Nominal diameter: Weight:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DN 25 (1")</td> <td style="width: 50%;">0.67 kg/m</td> </tr> <tr> <td>DN 32 (1 1/4")</td> <td>0.80 kg/m</td> </tr> <tr> <td>DN 38 (1 1/2")</td> <td>1.15 kg/m</td> </tr> <tr> <td>DN 50 (2")</td> <td>1.60 kg/m</td> </tr> </table>	DN 25 (1")	0.67 kg/m	DN 32 (1 1/4")	0.80 kg/m	DN 38 (1 1/2")	1.15 kg/m	DN 50 (2")	1.60 kg/m	<p><b>0374-467</b>  <b>0374-468</b>  <b>0374-469</b>  <b>0374-470</b></p>	
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<p><b>1 Universal chemical hose</b></p> <p>Colour coding: "blue/white/blue".            Suitable for food and luxury foodstuffs, pharmaceuticals, cosmetics and hygiene products. Conform to FDA and USP class VI. Complies with EU-regulations 10/2011 and 1935/2004.            Internal finish: UPE light with spiraled OHM conductive stripes UPE black, smooth, non-bleeding, abrasion-resistant.            Intermediate layer: EPDM conductive (complies with the requirements of the recommendation XXI category 2 of the BfR and FDA standards).            External finish: EPDM light grey, conductive, non-bleeding, ozone- and UV resistant, hardly flammable, (starting from DN 25 with galvanized steel helix, suitable as suction and pressure hose).            Electrically conductive: Type Ω/T (&lt;10<sup>6</sup> Ohm between the fittings, &lt;10<sup>9</sup> Ohm through the hose wall) according to DIN EN 12115:2011.</p> <p>Operating pressure: max. 16 bar            Temperature of medium: -30 up to +100 °C (dependant on the liquid), sterilisable at 130 °C for 30 minutes (open ends)</p> <p>Nominal diameter: Weight:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DN 25 (1")</td> <td style="width: 50%;">0.8 kg/m</td> </tr> <tr> <td>DN 32 (1 1/4")</td> <td>0.9 kg/m</td> </tr> <tr> <td>DN 38 (1 1/2")</td> <td>1.2 kg/m</td> </tr> <tr> <td>DN 50 (2")</td> <td>1.9 kg/m</td> </tr> </table>	DN 25 (1")	0.8 kg/m	DN 32 (1 1/4")	0.9 kg/m	DN 38 (1 1/2")	1.2 kg/m	DN 50 (2")	1.9 kg/m	<p><b>0374-476 ●</b>  <b>0374-477 ●</b>  <b>0374-478 ●</b>  <b>0374-479 ●</b></p>	
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<p><b>2 Hose clips</b></p> <p>Stainless steel hose clips with threaded screw for fixing hoses of various nominal bore at the hose connection.</p> <p>Nominal diameter:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DN 25 (1")</td> <td style="width: 50%;"></td> </tr> <tr> <td>DN 32 - 38 (1 1/4" - 1 1/2")</td> <td></td> </tr> <tr> <td>DN 50 (2")</td> <td></td> </tr> </table>	DN 25 (1")		DN 32 - 38 (1 1/4" - 1 1/2")		DN 50 (2")		<p><b>0301-401</b>  <b>0302-402</b>  <b>0302-403</b></p>			
DN 25 (1")										
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DN 50 (2")										

# Accessories

For B70V SanitaryPlus and B70 PURE

Product detail	Specification	Order-No.																																																																														
 <p><b>Caution:</b> The assembler is responsible for the professional bonding of the hose according to the current Pressure Equipment Directive.</p>	<p><b>3 Hose connection with Tri-Clamp</b> For connection of the hose onto the eccentric screw pump B70, discharge spout or Tri-clamp armatures (consisting of hose connector, locking clamp and seal) Material: Stainless steel (1.4404)</p> <table border="0"> <tr> <td>Connection:</td> <td colspan="2">for hose with nominal diameter:Seal:</td> <td></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 19 (3/4")</td> <td>EPDM</td> <td><b>0204-870</b></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 19 (3/4")</td> <td>FPM</td> <td><b>0204-871</b></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 25 (1")</td> <td>EPDM</td> <td><b>0204-872</b></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 25 (1")</td> <td>FPM</td> <td><b>0204-873</b></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 32 (1 1/4")</td> <td>EPDM</td> <td><b>0204-874</b></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 32 (1 1/4")</td> <td>FPM</td> <td><b>0204-875</b></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td><b>0204-876</b></td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td><b>0204-877</b></td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td><b>0172-746</b></td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td><b>0204-878</b></td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 50 (2")</td> <td>EPDM</td> <td><b>0204-879</b></td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 50 (2")</td> <td>FPM</td> <td><b>0204-880</b></td> </tr> </table> <p><b>For individual needs, e.g. for connection to on-site Tri-clamp armatures:</b></p> <p><b>Tri-clamp hose connector (1.4404):</b></p> <table border="0"> <tr> <td>DN 32 for hose DN 19</td> <td><b>0370-093</b></td> </tr> <tr> <td>DN 32 for hose DN 25</td> <td><b>0370-094</b></td> </tr> <tr> <td>DN 32 for hose DN 32</td> <td><b>0370-095</b></td> </tr> <tr> <td>DN 32 for hose DN 38</td> <td><b>0370-096</b></td> </tr> <tr> <td>DN 50 for hose DN 50</td> <td><b>0370-097</b></td> </tr> </table> <p><b>Tri-clamp locking clamp (1.4408):</b></p> <table border="0"> <tr> <td>DN 25/32/40</td> <td><b>0370-088</b></td> </tr> <tr> <td>DN 50</td> <td><b>0370-084</b></td> </tr> </table> <p><b>Tri-Clamp Seals:</b></p> <table border="0"> <tr> <td>DN 32, EPDM</td> <td><b>0314-596</b></td> </tr> <tr> <td>DN 32, FPM</td> <td><b>0314-597</b></td> </tr> <tr> <td>DN 40, EPDM</td> <td><b>0314-598</b></td> </tr> <tr> <td>DN 40, FPM</td> <td><b>0314-599</b></td> </tr> <tr> <td>DN 50, EPDM</td> <td><b>0314-590</b></td> </tr> <tr> <td>DN 50, FPM</td> <td><b>0314-591</b></td> </tr> </table> <p>** If using for eccentric screw pumps B70 an additional reducing piece DN 50 to DN 25/32/40 (Item 5) and a locking clamp (Item. 6) are required.</p>	Connection:	for hose with nominal diameter:Seal:			Tri-Clamp DN 32**	DN 19 (3/4")	EPDM	<b>0204-870</b>	Tri-Clamp DN 32**	DN 19 (3/4")	FPM	<b>0204-871</b>	Tri-Clamp DN 32**	DN 25 (1")	EPDM	<b>0204-872</b>	Tri-Clamp DN 32**	DN 25 (1")	FPM	<b>0204-873</b>	Tri-Clamp DN 32**	DN 32 (1 1/4")	EPDM	<b>0204-874</b>	Tri-Clamp DN 32**	DN 32 (1 1/4")	FPM	<b>0204-875</b>	Tri-Clamp DN 32**	DN 38 (1 1/2")	EPDM	<b>0204-876</b>	Tri-Clamp DN 32**	DN 38 (1 1/2")	FPM	<b>0204-877</b>	Tri-Clamp DN 50	DN 38 (1 1/2")	EPDM	<b>0172-746</b>	Tri-Clamp DN 50	DN 38 (1 1/2")	FPM	<b>0204-878</b>	Tri-Clamp DN 50	DN 50 (2")	EPDM	<b>0204-879</b>	Tri-Clamp DN 50	DN 50 (2")	FPM	<b>0204-880</b>	DN 32 for hose DN 19	<b>0370-093</b>	DN 32 for hose DN 25	<b>0370-094</b>	DN 32 for hose DN 32	<b>0370-095</b>	DN 32 for hose DN 38	<b>0370-096</b>	DN 50 for hose DN 50	<b>0370-097</b>	DN 25/32/40	<b>0370-088</b>	DN 50	<b>0370-084</b>	DN 32, EPDM	<b>0314-596</b>	DN 32, FPM	<b>0314-597</b>	DN 40, EPDM	<b>0314-598</b>	DN 40, FPM	<b>0314-599</b>	DN 50, EPDM	<b>0314-590</b>	DN 50, FPM	<b>0314-591</b>	
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	<p><b>3 Adapter fitting Tri-Clamp</b></p> <table border="0"> <tr> <td>DN 32 on tube fitting DIN 11851 Rd 58 x 1/6 (DIN 405)</td> <td><b>0172-668</b></td> </tr> <tr> <td>DN 50 on tube fitting DIN 11851 Rd 78 x 1/6 (DIN 405)</td> <td><b>0172-747</b></td> </tr> </table>	DN 32 on tube fitting DIN 11851 Rd 58 x 1/6 (DIN 405)	<b>0172-668</b>	DN 50 on tube fitting DIN 11851 Rd 78 x 1/6 (DIN 405)	<b>0172-747</b>																																																																											
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# Accessories

For B70V SanitaryPlus and B70 PURE

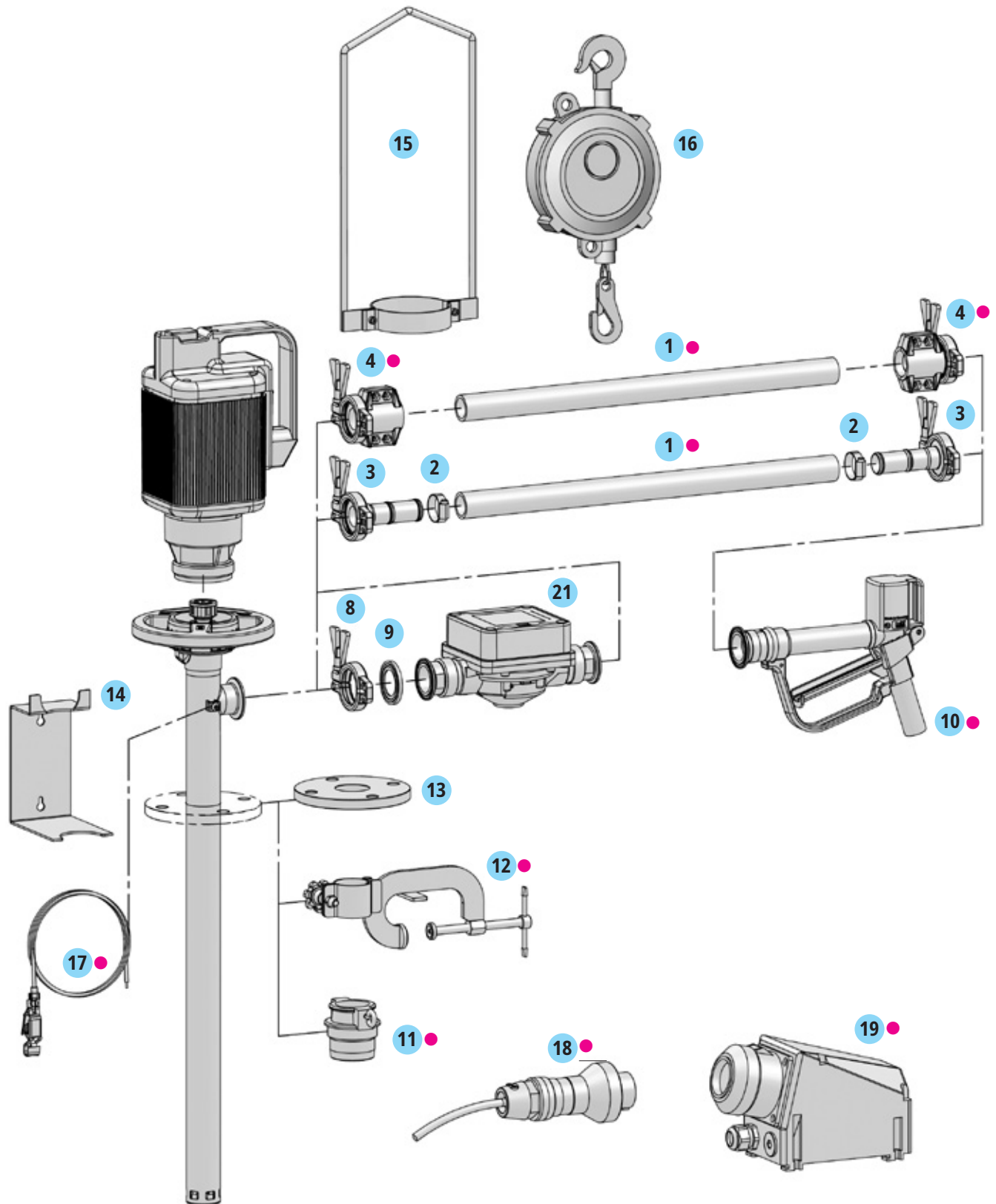
Product detail	Specification	Order-No.
	<p><b>5 Tri-Clamp reducing piece</b></p> <p>Suitable for connection of Tri-Clamp armatures DN 25/32/40 to a Tri-Clamp DN 50 connecting piece. Material: Stainless steel (1.4408)</p> <p>DN 50 onto DN 25/32/40</p>	<b>0300-185</b> ●
	<p><b>6 Tri-Clamp locking clamp</b></p> <p>Suitable for connection of armatures DN 50 to a connecting piece DN 50. Material: Stainless steel (1.4408) incl. seal.</p> <p>DN 50, Seal EPDM DN 50, Seal FPM</p>	<p><b>0172-745</b> ●</p> <p><b>0204-477</b> ●</p>
	<p><b>7 Discharge spout</b></p> <p>For mounting at the end of the hose for direct filling and transferring in containers incl. seal and clamp. Material: Stainless steel (1.4301/EPDM)</p> <p>Tri-Clamp DN 32 Tri-Clamp DN 40</p>	<p><b>0370-098</b> ●</p> <p><b>0370-099</b> ●</p>
	<p><b>8 Discharge spout</b></p> <p>For mounting at the end of the hose for direct filling and transferring in containers incl. seal and clamp. Material: Stainless steel (1.4571. 1.4404/EPDM).</p> <p>Tri-Clamp DN 50</p>	<b>0172-748</b> ●
	<p><b>22 Protection device for drum inliner</b></p> <p>For mounting onto the pump foot. Protects sensitive drum inliner and bags from damage.</p> <p>For pump tube B70V-H SanitaryPlus For pump tube B70V 120.1</p>	<p><b>0173-819</b> ●</p> <p><b>0175-332</b></p>
	<p><b>11 Drum adapter in PP</b></p> <p>For fixing the eccentric screw pump B70 in the drum opening. For pump tube <math>\varnothing</math> 52-54 mm Universal for all current drum and bunghole openings</p>	<b>0208-056</b>
	<p><b>12 Clamping device SS (1.4571)</b></p> <p>To fasten the eccentric screw pump B70 in open-topped drums and containers. For pump tube <math>\varnothing</math> 52-54 mm</p>	<b>0205-052</b> ●
	<p><b>13 Installation flange SS (1.4571)</b></p> <p>For fixing the eccentric screw pump B70 according to DIN 2573, DN 50, PN 6, to a companion flange. The flange is welded onto the pump tube. For pump tube <math>\varnothing</math> 52-54 mm</p>	<b>0170-310</b>
	<p><b>14 Wall bracket</b></p> <p>For safe storage of the eccentric screw pump B70 when not in use.</p> <p>for B70V for B70V-SR</p>	<p><b>0204-309</b></p> <p><b>0204-307</b></p>

● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol) or in explosive hazard area.

Specification	Order-No.	Product detail
<p><b>16 Balancer</b> for eccentric screw pumps, with infinitely adjustable load balancer for easy lifting and moving of the pump</p> <p>Load bearing capacity: 18-22 kg Load bearing capacity: 22-25 kg Load bearing capacity: 25-30 kg</p> <p>Tackle: 2 m Tackle: 2 m Tackle: 2 m</p>	<p><b>0371-013</b> <b>0371-014</b> <b>0371-015</b></p>	
<p><b>17 Equipotential bonding cable</b> Serves to create electrically conductive connection between explosion proof pump and container as earthing and equipotential bonding function.</p> <p>2 m long with fastening clip 2 m long with two fastening clips</p> <p>for B70V-H Sanitary</p>	<p><b>0204-994</b> ● <b>0204-992</b> ●</p>	
<p><b>18 Ex-plug</b> Ensures the safe mains connection of the pump in explosive hazardous areas. CEE round plug in accordance with EEx de IIC T6, splash proof in compliance with IP 65.</p> <p>3-pole (alternating current) CEAG for B70V-SR (Ex) 3-pole (alternating current) STAHL for B70V-SR (Ex) 5-pole (three phase current) CEAG for B70V (Ex) 5-pole (three phase current) STAHL for B70V (Ex)</p>	<p><b>0336-536</b> ● <b>0336-540</b> ● <b>0336-537</b> ● <b>0336-541</b> ●</p>	
<p><b>19 Ex-socket</b> Ensures the safe mains connection of the pump in explosive hazardous areas. CEE-socket in accordance with EEx de IIC T6, splash proof in compliance with IP 65.</p> <p>3-pole (alternating current) CEAG for B70V-SR (Ex) 3-pole (alternating current) STAHL for B70V-SR (Ex) 5-pole (three phase current) CEAG for B70V (Ex) 5-pole (three phase current) STAHL for B70V (Ex)</p>	<p><b>0336-531</b> ● <b>0336-542</b> ● <b>0336-420</b> ● <b>0336-543</b> ●</p>	
<p><b>23 Motor protective switch for motor B70V (Ex)</b> Explosion proof according to EEx de IIC T6 with thermal and electromagnetic trip, protection type IP 66. A lifting device and two cable protective coverings are necessary for the mounting.</p> <p>Ex, 1.6 - 2.5 A Ex, 2.5 - 4.0 A Ex, 4.0 - 6.3 A</p>	<p><b>0335-414</b> ● <b>0335-419</b> ● <b>0335-420</b> ●</p>	
<p><b>18 Coupling part, motor side</b> When sourcing your own motor please order the correct coupling to suit the relative shaft diameter.</p> <p>Shaft diameter:      ø 14 mm                                   ø 19 mm                                   ø 24 mm                                   ø 28 mm (only in combination with intermediate flange)</p> <p>Intermediate flange for   ø 28 mm</p>	<p><b>0302-028</b> <b>0302-027</b> <b>0302-026</b> <b>0302-029</b></p> <p><b>0172-850</b></p>	
<p><b>19 Lifting device</b> To simplify the process of lifting the pump in and out of drums or containers. When using an explosion proof driving motor the Ex-protective plug is mounted onto the lifting device.</p> <p>for pump tube HD-E for B70V-SR with universal motor</p>	<p><b>0155-154</b> <b>0174-607</b></p>	

# Accessories

For PURE drum and container pumps


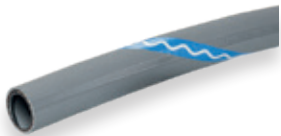


- 1 ● Hose
- 2 ● Hose clip
- 3 ● Hose connection
- 4 ● Hose connector
- 8 ● Tri-Clamp locking clamp
- 9 ● Tri-Clamp seal

- 10 ● Nozzle
- 11 ● Drum adapter
- 12 ● Clamping device
- 13 ● Installation flange
- 14 ● Wall bracket
- 15 ● Lifting device



- 16 ● Balancer
- 17 ● Equipotential bonding cable
- 18 ● Ex-plug
- 19 ● Ex-socket
- 21 ● Flow meter

● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol) or in explosive hazard area.

Specification	Order-No.	Product detail
<p><b>1 PVC spiral hose, fabric reinforced</b></p> <p>Hose for food liquids made of PVC with woven layer and imbedded galvanized steel helix, inside and outside smooth, complies with EU-regulations 10/2011 and 1935/2004.</p> <p>Operating pressure: max. 14 bar            Temperature of medium: -5 up to +65 °C            Nominal diameter: Weight:            DN 19 (3/4") 0.45 kg/m            DN 25 (1") 0.67 kg/m            DN 32 (1 1/4") 0.80 kg/m</p> <p><b>PVC-spiral hose</b></p> <p>Hose for food liquids made of PVC with imbedded galvanized steel helix, inside and outside smooth, complies with EU-regulations 10/2011 and 1935/2004.</p> <p>Operating pressure: max. 5 bar            Temperature of medium: -5 up to +65 °C            Nominal diameter: Weight:            DN 19 (3/4") 0.31 kg/m            DN 25 (1") 0.51 kg/m</p>	<p><b>0374-466</b>  <b>0374-467</b>  <b>0374-468</b></p> <p><b>0374-457</b>  <b>0374-440</b></p>	
<p><b>1 Universal chemical hose</b></p> <p>Colour coding: "blue/white/blue".            Suitable for food and luxury foodstuffs, pharmaceuticals, cosmetics and hygiene products. Conform to FDA and USP class VI. Complies with EU-regulations 10/2011 and 1935/2004.            Internal finish: UPE light with spiraled OHM conductive stripes UPE black, smooth, non-bleeding, abrasion-resistant.            Intermediate layer: EPDM conductive (complies with the requirements of the recommendation XXI category 2 of the BfR and FDA standards).            External finish: EPDM light grey, conductive, non-bleeding, ozone- and UV resistant, hardly flammable, (starting from DN 25 with galvanized steel helix, suitable as suction and pressure hose).            Electrically conductive Type Ω/T (&lt;10<sup>6</sup> Ohm between the fittings, &lt;10<sup>9</sup> Ohm through the hose wall) according to DIN EN 12115:2011.</p> <p>Operating pressure: max. 16 bar            Temperature of medium: -30 up to +100 °C (dependant on the liquid),            sterilisable at 130 °C for 30 minutes (open ends)</p> <p>Nominal diameter: Weight:            DN 19 (3/4") 0.6 kg/m            DN 25 (1") 0.8 kg/m            DN 32 (1 1/4") 0.9 kg/m</p>	<p><b>0374-475</b> ●  <b>0374-476</b> ●  <b>0374-477</b> ●</p>	
<p><b>2 Hose clips</b></p> <p>Stainless steel hose clips with threaded screw for fixing hoses of various nominal bore at the hose connection.</p> <p>Nominal diameter:            DN 19 (3/4")            DN 25 (1")            DN 32 - 38 (1 1/4" - 1 1/2")</p>	<p><b>0301-400</b>  <b>0301-401</b>  <b>0302-402</b></p>	

# Accessories

For PURE drum and container pumps

Product detail	Specification	Order-No.																																																														
 <p><b>Caution:</b> The assembler is responsible for the professional bonding of the hose according to the current Pressure Equipment Directive.</p>	<p><b>3 Hose connection with Tri-Clamp</b> For connection of the hose onto the pump, nozzle or Tri-clamp armatures (consisting of hose connector, locking clamp and seal) Material: stainless steel (1.4404)</p> <table border="0"> <tr> <td>Connection:</td> <td>for hose with nominal diameter:</td> <td>Seal:</td> <td></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 19 (3/4")</td> <td>EPDM</td> <td><b>0204-870</b></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 19 (3/4")</td> <td>FPM</td> <td><b>0204-871</b></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>EPDM</td> <td><b>0204-872</b></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>FPM</td> <td><b>0204-873</b></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>EPDM</td> <td><b>0204-874</b></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>FPM</td> <td><b>0204-875</b></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td><b>0204-876</b></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td><b>0204-877</b></td> </tr> </table> <p><b>For individual needs, e.g. for connection to on-site Tri-clamp armatures:</b> <b>Tri-clamp hose connector (1.4404):</b></p> <table border="0"> <tr> <td>DN 32 for hose DN 19</td> <td><b>0370-093</b></td> </tr> <tr> <td>DN 32 for hose DN 25</td> <td><b>0370-094</b></td> </tr> <tr> <td>DN 32 for hose DN 32</td> <td><b>0370-095</b></td> </tr> <tr> <td>DN 32 for hose DN 38</td> <td><b>0370-096</b></td> </tr> </table> <p><b>Tri-clamp locking clamp (1.4408):</b></p> <table border="0"> <tr> <td>DN 25/32/40</td> <td><b>0370-088</b></td> </tr> </table> <p><b>Tri-Clamp seals:</b></p> <table border="0"> <tr> <td>DN 32, EPDM</td> <td><b>0314-596</b></td> </tr> <tr> <td>DN 32, FPM</td> <td><b>0314-597</b></td> </tr> <tr> <td>DN 40, EPDM</td> <td><b>0314-598</b></td> </tr> <tr> <td>DN 40, FPM</td> <td><b>0314-599</b></td> </tr> </table> <p><b>3 Adapter fitting Tri-Clamp</b> DN 32 on tube fitting DIN 11851 Rd 58 x 1/6 (DIN 405)</p> <p><b>0172-668</b></p>	Connection:	for hose with nominal diameter:	Seal:		Tri-Clamp DN 32	DN 19 (3/4")	EPDM	<b>0204-870</b>	Tri-Clamp DN 32	DN 19 (3/4")	FPM	<b>0204-871</b>	Tri-Clamp DN 32	DN 25 (1")	EPDM	<b>0204-872</b>	Tri-Clamp DN 32	DN 25 (1")	FPM	<b>0204-873</b>	Tri-Clamp DN 32	DN 32 (1 1/4")	EPDM	<b>0204-874</b>	Tri-Clamp DN 32	DN 32 (1 1/4")	FPM	<b>0204-875</b>	Tri-Clamp DN 32	DN 38 (1 1/2")	EPDM	<b>0204-876</b>	Tri-Clamp DN 32	DN 38 (1 1/2")	FPM	<b>0204-877</b>	DN 32 for hose DN 19	<b>0370-093</b>	DN 32 for hose DN 25	<b>0370-094</b>	DN 32 for hose DN 32	<b>0370-095</b>	DN 32 for hose DN 38	<b>0370-096</b>	DN 25/32/40	<b>0370-088</b>	DN 32, EPDM	<b>0314-596</b>	DN 32, FPM	<b>0314-597</b>	DN 40, EPDM	<b>0314-598</b>	DN 40, FPM	<b>0314-599</b>									
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	<p><b>4 Hose connector with Tri-clamp</b> For connection of conductive hose onto the pump, nozzle or Tri-clamp armatures in explosive hazardous area. The hose connector ensures a highly conductive transition between conductive hose and pump/armature. The ohmic resistance between the armatures must be lower than 10<sup>6</sup> Ohm. (Consisting of hose connector, clamp collars, locking clamp and seal). Material: stainless steel (1.4404)</p> <table border="0"> <tr> <td>Connection:</td> <td>for hose with nominal diameter:</td> <td>Seal:</td> <td></td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 19 (3/4")</td> <td>EPDM</td> <td><b>0204-860</b> ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 19 (3/4")</td> <td>FPM</td> <td><b>0204-861</b> ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>EPDM</td> <td><b>0204-862</b> ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>FPM</td> <td><b>0204-863</b> ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>EPDM</td> <td><b>0204-864</b> ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>FPM</td> <td><b>0204-865</b> ●</td> </tr> <tr> <td>Tri-Clamp DN 40**</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td><b>0204-866</b> ●</td> </tr> <tr> <td>Tri-Clamp DN 40**</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td><b>0204-867</b> ●</td> </tr> </table> <p><b>For individual needs, e.g. for connection to on-site Tri-clamp armatures:</b> <b>Tri-clamp hose connector (1.4404):</b></p> <table border="0"> <tr> <td>DN 32 for hose DN 19</td> <td><b>0300-174</b></td> </tr> <tr> <td>DN 32 for hose DN 25</td> <td><b>0300-175</b></td> </tr> <tr> <td>DN 32 for hose DN 32</td> <td><b>0300-176</b></td> </tr> <tr> <td>DN 40 for hose DN 38</td> <td><b>0300-177</b></td> </tr> </table> <p><b>Clamp collar (1.4408):</b></p> <table border="0"> <tr> <td>DN 19</td> <td><b>0300-180</b></td> </tr> <tr> <td>DN 25</td> <td><b>0300-181</b></td> </tr> <tr> <td>DN 32</td> <td><b>0300-182</b></td> </tr> <tr> <td>DN 38</td> <td><b>0300-183</b></td> </tr> </table> <p><b>Tri-Clamp locking clamp (1.4408):</b></p> <table border="0"> <tr> <td>DN 25/32/40</td> <td><b>0370-088</b></td> </tr> </table> <p><b>Tri-Clamp Seals:</b></p> <table border="0"> <tr> <td>DN 32, EPDM</td> <td><b>0314-596</b></td> </tr> <tr> <td>DN 32, FPM</td> <td><b>0314-597</b></td> </tr> <tr> <td>DN 40, EPDM</td> <td><b>0314-598</b></td> </tr> <tr> <td>DN 40, FPM</td> <td><b>0314-599</b></td> </tr> </table>	Connection:	for hose with nominal diameter:	Seal:		Tri-Clamp DN 32	DN 19 (3/4")	EPDM	<b>0204-860</b> ●	Tri-Clamp DN 32	DN 19 (3/4")	FPM	<b>0204-861</b> ●	Tri-Clamp DN 32	DN 25 (1")	EPDM	<b>0204-862</b> ●	Tri-Clamp DN 32	DN 25 (1")	FPM	<b>0204-863</b> ●	Tri-Clamp DN 32	DN 32 (1 1/4")	EPDM	<b>0204-864</b> ●	Tri-Clamp DN 32	DN 32 (1 1/4")	FPM	<b>0204-865</b> ●	Tri-Clamp DN 40**	DN 38 (1 1/2")	EPDM	<b>0204-866</b> ●	Tri-Clamp DN 40**	DN 38 (1 1/2")	FPM	<b>0204-867</b> ●	DN 32 for hose DN 19	<b>0300-174</b>	DN 32 for hose DN 25	<b>0300-175</b>	DN 32 for hose DN 32	<b>0300-176</b>	DN 40 for hose DN 38	<b>0300-177</b>	DN 19	<b>0300-180</b>	DN 25	<b>0300-181</b>	DN 32	<b>0300-182</b>	DN 38	<b>0300-183</b>	DN 25/32/40	<b>0370-088</b>	DN 32, EPDM	<b>0314-596</b>	DN 32, FPM	<b>0314-597</b>	DN 40, EPDM	<b>0314-598</b>	DN 40, FPM	<b>0314-599</b>	
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● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol) or in explosive hazard area.



Specification	Order-No.	Product detail
<p><b>10 Nozzle SS</b></p> <p>Ideally suitable for filling and transferring liquids – also for combustible and highly flammable liquids – in food and pharmaceutical industry. Stainless steel (1.4571) housing and valve tappet. With hoop guard and rotating joint.</p> <p>Operating pressure: up to 3 bar            Viscosity: up to 760 mPas            Flow rate: up to 50 l/min. (water)            Temperature of medium: up to 80 °C            Weight: approx. 1 kg            Connection: Tri-Clamp DN 32            Seal: FPM or EPDM</p> <p>Basic price nozzle SS<sup>▲</sup> <b>0204-370 ●</b>            Additional price version: PURE FPM<sup>▲</sup> <b>0204-820 ●</b>            Additional price version: PURE EPDM<sup>▲</sup> <b>0204-821 ●</b></p> <p><sup>▲</sup>Please choose Order-No. basic price nozzle + Order No. additional price version: PURE</p>		
<p><b>11 Drum adapter in PP</b></p> <p>For fixing the pump in the drum opening.            For pump tube Ø 41 mm            Outer thread G 2</p> <p><b>0208-007</b></p>		
<p><b>11 Drum adapter in PE (electrically conductive)</b></p> <p>For fixing the pump in the drum opening.            For pump tube Ø 41 mm            Outer thread G 2            Outer thread BCS 56 x 4            Outer thread BCS 70 x 6</p> <p><b>0208-055 ●</b>  <b>0208-052 ●</b>  <b>0208-054 ●</b></p>		
<p><b>12 Clamping device SS (1.4571)</b></p> <p>To fasten the drum pumps in open-topped drums and containers.            For pump tube Ø 41 mm</p> <p><b>0205-040 ●</b></p>		
<p><b>13 Installation flange SS (1.4571)</b></p> <p>For fixing the drum and container pump according to DIN 2573, DN 50, PN 6 to a companion flange. The flange is welded onto the pump tube.            For pump tube Ø 41 mm</p> <p><b>0151-622</b></p>		
<p><b>14 Wall bracket</b></p> <p>For safe storage of the pump when not in use.</p> <p><b>0204-308</b></p>		

# Accessories

## For PURE drum and container pumps

Product detail	Specification	Order-No.
	<p><b>15 Lifting device</b> To simplify the process of lifting the pump in and out of drums and containers.</p> <p>For pumps with motors MA II and ME II For pumps with motors B4/GT</p>	<p><b>0211-047</b> <b>0214-196</b></p>
	<p><b>16 Balancer</b> for drum pump, with infinitely adjustable load balancer for easy lifting and moving of the pump.</p> <p>Load bearing capacity: 10-14 kg Tackle: 2 m</p>	<p><b>0371-012</b></p>
	<p><b>17 Equipotential bonding cable</b> Serves to create electrically conductive connection between explosion proof pump and container as earthing and equipotential bonding function.</p> <p>2 m long with fastening clip</p>	<p><b>0204-994</b> ●</p>
	<p><b>18 Ex-plug</b> Ensures the safe mains connection of the pump in explosive hazardous areas. CEE round plug in accordance with EEx de IIC T6, splash proof in compliance with IP 65.</p> <p>3-pole (alternating current) system CEAG for motor ME II 3-pole (alternating current) system STAHL for motor ME II</p>	<p><b>0336-536</b> ● <b>0336-540</b> ●</p>
	<p><b>19 Ex-socket</b> Ensures the safe mains connection of the pump in explosive hazardous areas. CEE-socket in accordance with EEx de IIC T6, splash proof in compliance with IP 65.</p> <p>3-pole (alternating current) system CEAG for motor ME II 3-pole (alternating current) system STAHL for motor ME II</p>	<p><b>0336-531</b> ● <b>0336-542</b> ●</p>
	<p><b>21 Modular electronic flow meter system, TS series, type VA10 in PURE version</b> For measuring of liquid foodstuffs, pharmaceuticals and cosmetics. Wide application range: directly at the drum pump, decentralized or in-line operation possible. With touch screen display, multilingual menu and simple plain text operation. Also with volume preselection. (Suitable connecting parts see items 8 and 9) For more details see separate flow meter leaflet.</p>	
	<p><b>8 Tri-Clamp locking clamp (1.4408)</b> For fixing the flow meter VA10 PURE at the pump. (Suitable seal see item 9) DN 25/32/40</p>	<p><b>0370-088</b> ●</p>
	<p><b>9 Tri-Clamp seal</b> For fixing the flow meter VA10 PURE at the pump.</p> <p>DN 32, EPDM DN 32, FPM DN 40, EPDM DN 40, FPM</p>	<p><b>0314-596</b> <b>0314-597</b> <b>0314-598</b> <b>0314-599</b></p>

● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol) or in explosive hazard area.

For compressed air supply of motors MD1xL, MD2xL

Specification	Order-No.	Product detail
<b>25 Maintenance unit</b> For cleaning and oiling the supply air. With manometer for setting operating pressure. Operating pressure: max. 10 bar	<b>0204-152</b>	
<b>25 Filter pressure regulator for oil-free operation</b> With manometer for setting operating pressure. Inlet pressure: max. 16 bar      Ambient temp.: max. 60 °C Filter element: 5 µm, Cellpor      Diaphragms and seals: NBR Housing: Zinc-Pressure cast G 3/8	<b>5000-178</b>	
<b>26 Coupling (female part)</b> Self-disconnecting in brass. For screwing in the maintenance unit. Brass (NW 7.2)      G 3/8 AG Brass (NW 10)      G 3/8 AG	<b>0372-154</b> <b>0372-138</b>	
<b>27 Nipple (male part)</b> Brass (NW 7.2)      G 3/8 AG Brass (NW 10)      G 3/8 AG * Sealing ring 0314-309 is additionally required.	<b>0372-045*</b> <b>0372-053</b>	
<b>28 Air hose coupling connector</b> For connection to a coupling. Brass (NW 7.2)      for compressed air hose DN 9 Brass (NW 10)      for compressed air hose DN 13	<b>0372-155</b> <b>0372-153</b>	
<b>29 Stop valve</b> Chromium-plated brass for regulating the compressed air as well as the speed of the compressed air motors. G 3/8 outer thread/inner thread	<b>0372-043</b>	
<b>30 Compressed air hose</b> PVC-hose with intermediate woven layer, DN 9, for air supply to compressed air motors. Operating pressure: max. 14 bar at 20 °C      DN 9 max. 10 bar at 20 °C      DN 13	<b>0373-153</b> <b>0373-154</b>	
<b>31 Hose clamp</b> (Chromated steel: 1.4016) For compressed air hose      DN 9 DN 13	<b>0301-156</b> <b>0301-403</b>	
<b>32 Coupling with hose connector (female part)</b> Self-disconnecting in brass, with hose connector DN 9. Brass (NW 7.2)      for compressed air hose DN 9 Brass (NW 10)      for compressed air hose DN 13	<b>0372-166</b> <b>5000-165</b>	

# Accessories

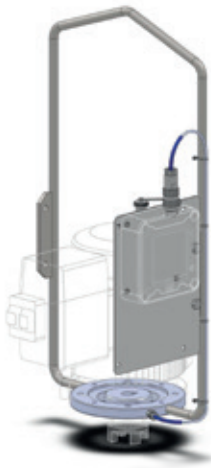
## Contact-free indirect measurement



### Product detail

### Specification

### Order-No.



#### 20 Lifting device with integrated impulse sensor

Comprises of:

Impulse sensor with connecting cable and 14-wire coupling plug, lifting device and flange plate.  
(Please order suitable impulse transmitter and control unit additionally)

Additional price\* for three-phase motors up to 1.1 kW

**0172-891**

Additional price\* for three-phase motors up to 1.5 kW  
and explosion proof three-phase motors Ex

**0172-892 ●**

Complete set for retrofitting available pumps

**0172-890 ●**

\*(Please indicate Ref. No. for additional price when ordering a pump)

#### 21 Impulse transmitter

Must be ordered additionally suitable for the shaft diameter of the motor

For shaft diameters:

Ø 19 mm

**0172-824**

Ø 20 mm

**0172-825**

Ø 24 mm

**0172-826**

Ø 25 mm

**0172-827**





Ø 28 mm

**0172-828**

Ø 30 mm

**0172-829**

● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol)  
or in explosive hazard area.

Specification	Order-No.	Product detail
<p><b>23 Control unit</b>                      With touch screen display and menu-navigated operation.                      Is intended for evaluation of impulses and display of flow volume,                      battery-operated**</p> <p>Control unit BE10                      Control unit Ex BE10B</p> <p><b>Power supply unit NG10 230 V</b>                      for external power supply of the operating unit                      220-240 V, 50-60 Hz, II (2) G [Ex ib] IIC</p>	<p><b>0230-000</b>  <b>0230-010</b> ●</p> <p><b>0230-230</b></p>	
<b>Accessories optional</b>		
<p><b>Relay module RM30</b>                      For three-phase motors up to 1.5 kW                      allows the filling with pre-selection (batch function),                      400 V, 1.5 kW, 50 Hz, II (2) G [Ex ib] IIC</p>	<b>0230-220</b>	
<p><b>Power cable RM30 400V</b>                      400 V, 50 Hz, 5-wire, 5 m long</p> <p style="text-align: right;">For RM30</p>	<b>0211-388</b>	
<p><b>Connecting cable motor RM30 400V</b>                      400 V, 50 Hz, 5-wire, 0.6 m long</p> <p style="text-align: right;">For RM30</p>	<b>0211-386</b>	
<p><b>Relay module RM10</b>                      For three-phase motors with frequency converter al-                      lows the filling with pre-selection (batch function),                      220-240 V, 50-60 Hz, II (2) G [Ex ib] IIC</p>	<b>0230-200</b>	
<p><b>Power cable RM10 230V</b>                      230 V, 50 Hz, 5 m long</p> <p style="text-align: right;">For RM10</p>	<b>0211-155</b>	
<p><b>Adapter cable motor RM-FU 230V/24V</b>                      For three-phase motors with frequency converter                      230V AC/24V DC</p> <p style="text-align: right;">For RM10</p>	<b>0230-323</b>	

\*\* Limited battery operation without power supply unit possible

● Suitable for transferring combustible and easy flammable liquids (e.g. ethanol, petrol)  
 or in explosive hazard area.

Twice the **COMPETENCE...**



## Professional Fluid Management

Drum pump sets

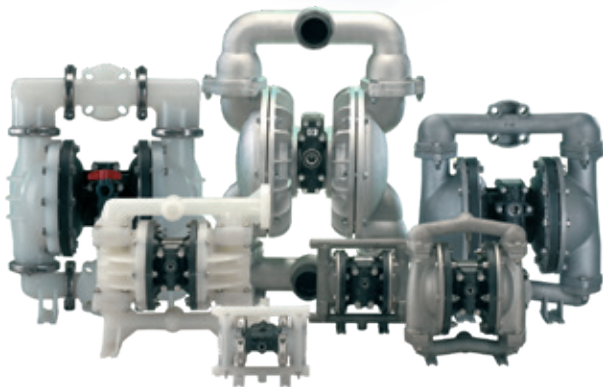
Drum and container pumps

Eccentric screw drum pumps

Flow meter systems

Air operated double diaphragm pumps

Vertical and horizontal centrifugal pumps



**Lutz Pumpen GmbH**

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[www.lutz-pumpen.de](http://www.lutz-pumpen.de)

...simply **UNIQUE**



## A Measured Step Forward



Dosing pumps and accessories

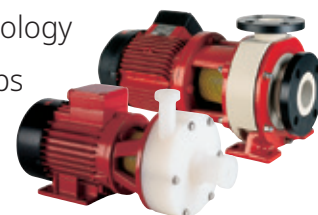
Chlorinators

Measuring and control technology

System and process technology

Chemical centrifugal pumps

Water disinfection



**Lutz-Jesco GmbH**

Am Bostelberge 19 · D-30900 Wedemark · Phone (+49 51 30) 58 02-0 · Fax (+49 51 30) 58 02 68 · E-Mail: info@lutz-jesco.com

[www.lutz-jesco.com](http://www.lutz-jesco.com)



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