



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

Certified Solutions

NEW: Eccentric Screw Pumps B70V SanitaryPlus

NEW



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**

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Suitable Accessories

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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**

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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.

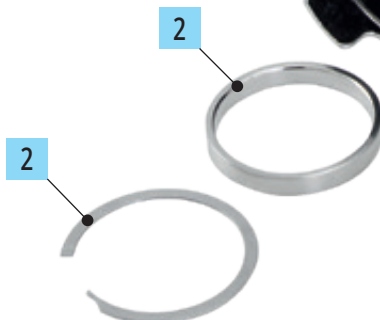
Quick cleaning

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

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	12.1	25.1	50.1		
	Seal Mechanical seal (MS)	MS	MS	MS		
	Delivery rate*	up to l/min. 12	25	50		
	Delivery head*	up to bar 6	8	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.	-	-	0174-548	
	Stator PTFE Seal FPM	Order-No.	0174-094	0174-194	0174-594	
	Stator PTFE Seal EPDM	Order-No.	0174-044	0174-244	0174-544	
	<p>* Determined with water at 20 °C, three-phase motor (900 rpm)</p> <p>** The length complies approx. to dimension C in the dimension table. 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>					
						
Choice of motors						
	Universal motors non-ex. proof	MI 4	MI 4-E	MA II 3	MA II 5	MA II 7
	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)	0030-000	0030-001	0060-000	0060-001	0060-002
Order-No. (with low-voltage release)	-	-	0060-008	0060-009	0060-010	
	Universal motors ex. proof	ME II 3	ME II 5	ME II 7	ME II 8	
	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)	0050-000	0050-001	0050-002	0050-042	
Order-No. (without low-voltage release)	0050-016	0050-017	0050-018	0050-041		
	Compressed air motors	MD1xL	MD2xL			
	Type	1000 W	1000 W			
	Operating pressure	6 bar	6 bar			
	Weight	1.0 kg	1.4 kg			
Order-No.	0004-725	0004-735				

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)

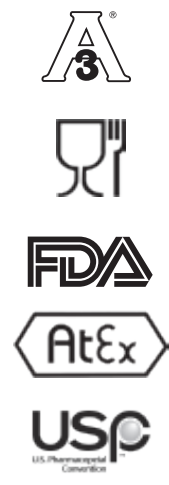
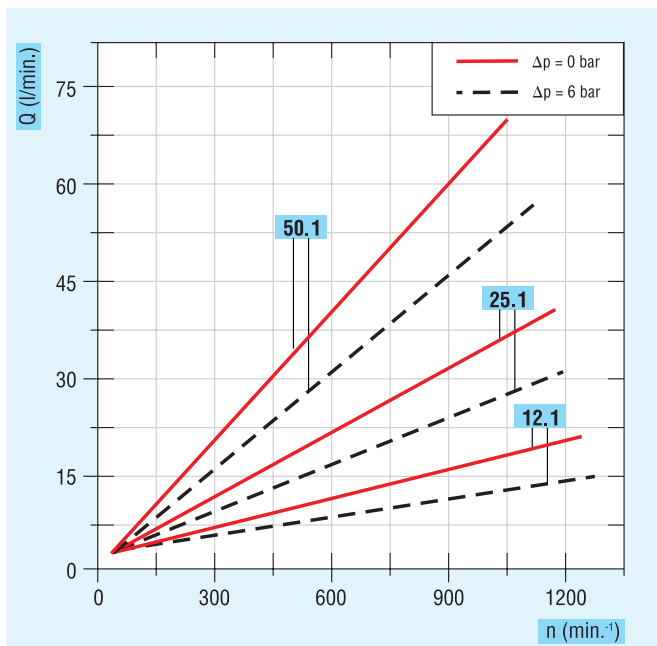
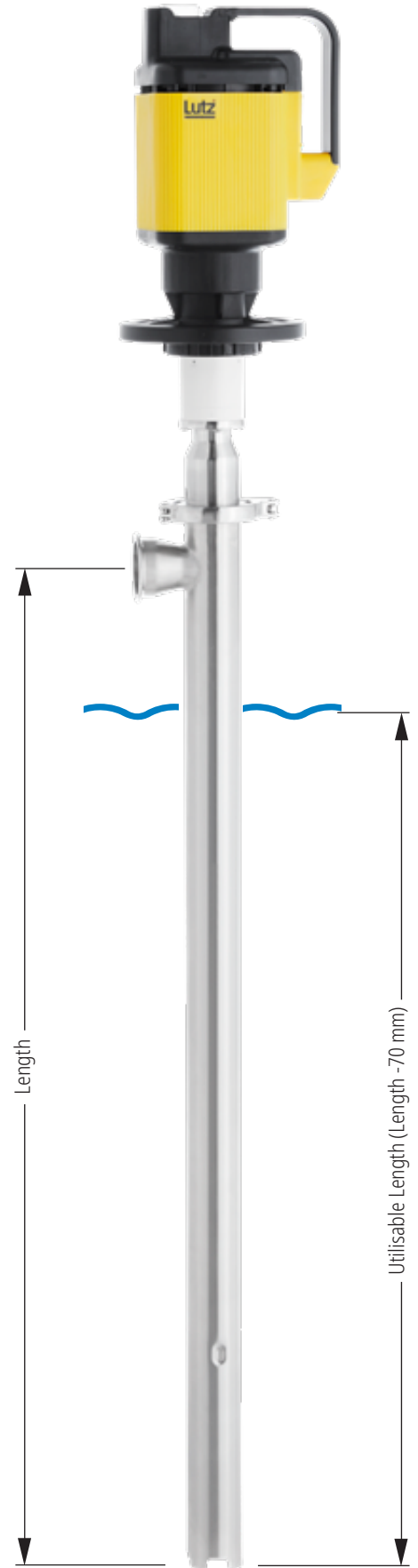
Materials (coming into contact with the pumped medium):

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 compressed air 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	12.1	25.1	
	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.	0172-094	0172-194	
	Seal FPM	●	●	
	Stator PTFE Order-No.	0172-044	0172-144	
	Seal EPDM	●	●	
<p>* Determined with water at 20 °C, three-phase motor (900 rpm)</p> <p>** The length complies approx. to dimension C in the dimension table. 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>				
				
Motor selection				
	Motors with cable terminal box			
	Version	0.75 kW, 900 1/min.	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.
	Protection type/weight	IP 55 16 kg	IP 55 20 kg	IP 55 31 kg
	Order No.	0172-901	0172+826	0172-903
	Motors with protection switch			
	Version	0.75 kW, 900 1/min.	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.
	Protection type/weight	IP 55 22 kg	IP 55 22 kg	IP 55 32 kg
	Order No.	0172-900	0172+825	0172-902
	Motors, explosion proof			
	Version	0.55 kW, 900 1/min.	0.95 kW, 900 1/min.	
Marking	II 2 G Ex e II T3	II 2 G Ex e II T3		
Protection type/weight	IP 55 17 kg	IP 55 25 kg		
Order No.	0172-804	0172-816		
Motors with frequency converter				
Version	0.75 kW, 0-900 1/min.	1.5 kW, 0-900 1/min.		
Protection type/weight	IP 55 30 kg	IP 55 35 kg		
Order No.	0172-768	0172-766		
<p>Three-phase motors 230/400 V, 50 Hz, RAL 9005, Energy efficiency class IE 3 in accordance with EU regulations 640/2009 and 04/2014.</p> <p>Special voltages, frequencies, protection types on request.</p>				

B70V-H-D SanitaryPlus 12.1, 25.1

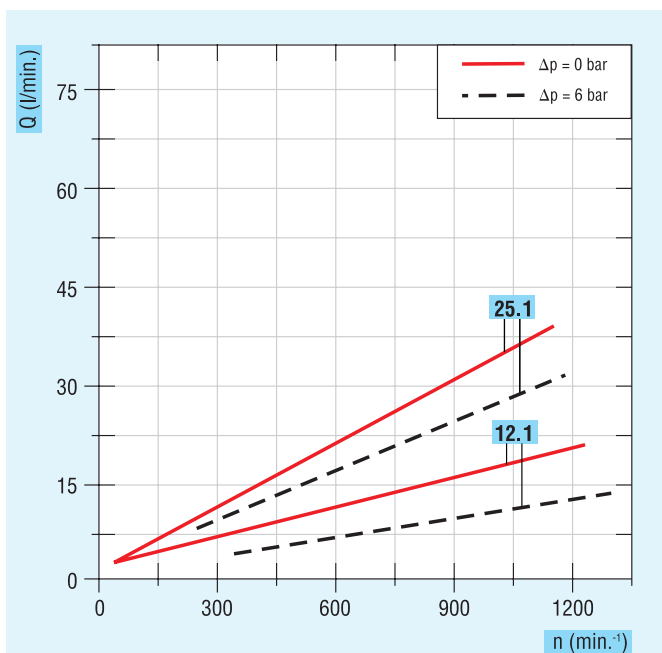
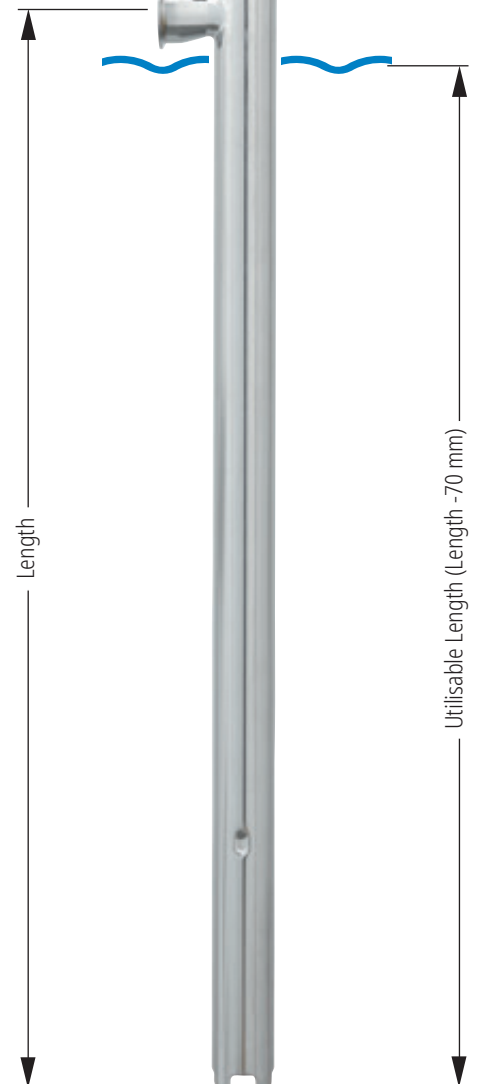
for viscosities up to 100,000 mPas

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.






Length

Utilisable Length (Length - 70 mm)

Lutz Eccentric Screw Pumps

B70V-H-D SanitaryPlus 25.2, 50.1, 75.1

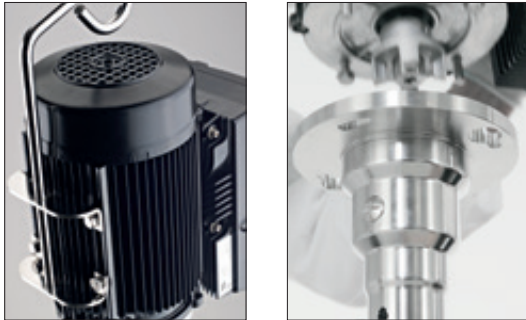
Product detail		Pump tube			B70V-H-D SanitaryPlus		
	Size		25.2	50.1	75.1		
	Seal	Mechanical seal (MS)	MS	MS	MS	MS	
	Delivery rate*	up to l/min.	25	50	75		
	Delivery head*	up to bar	10	8	8		
	Temp. of medium	up to °C	100	100	100		
	Material outer tube		1.4404	1.4404	1.4404		
	Immersion tube diameter	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.	-	0172-548	-		
	Stator PTFE Seal FPM	Order-No.	0172-294	0172-594	0172-584		
	Stator PTFE Seal EPDM	Order-No.	0172-244	0172-544	0172-554		
	<p>* Determined with water at 20 °C, three-phase motor (900 rpm)</p> <p>** The length complies approx. to dimension C in the dimension table. 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>						
							
Motor selection							
	Motors with cable terminal box						
	Version	1.1 kW, 900 1/min.			1.1 kW, 700 1/min.		
	Protection type/weight	IP 55 31 kg			IP 55 20 kg		
	Order No.	0172-903			0172+826		
	Motors with protection switch						
	Version	1.1 kW, 700 1/min.			1.1 kW, 900 1/min.		
	Protection type/weight	IP 55 22 kg			IP 55 32 kg		
	Order No.	0172+825			0172-902		
	Motor, explosion-proof						
	Version	0.95 kW, 900 1/min.					
Marking	II 2 G Ex e II T3						
Protection type/weight	IP 55 25 kg						
Order No.	0172-816						
Motors with frequency converter							
Version	0.75 kW, 0-900 1/min.			1.5 kW, 0-900 1/min.			
Protection type/weight	IP 55 30 kg			IP 55 35 kg			
Order No.	0172-768			0172-766			
<p>Three-phase motors 230/400 V, 50 Hz, RAL 9005, Energy efficiency class IE 3 in accordance with EU regulations 640/2009 and 04/2014.</p> <p>Special voltages, frequencies, protection types on request.</p>							

B70V-H-D SanitaryPlus 25.2, 50.1, 75.1

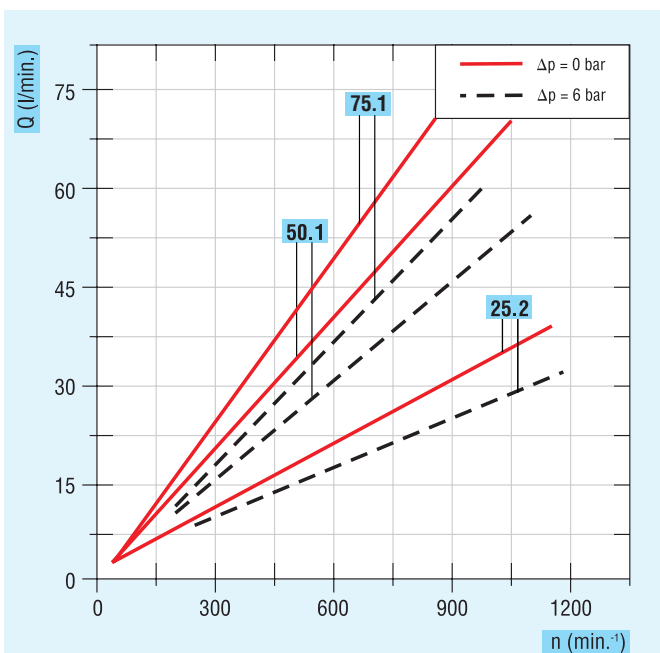
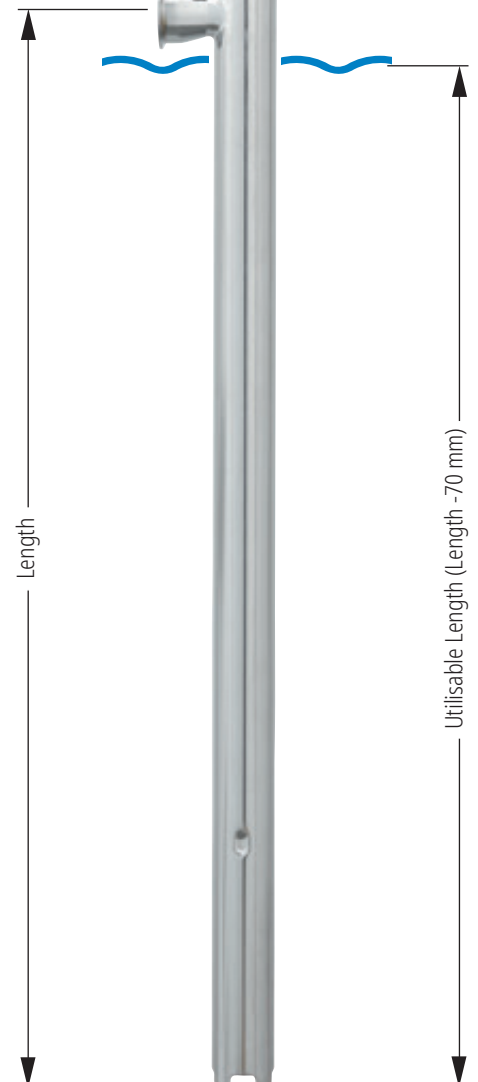
for viscosities up to 100,000 mPas

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 1.4571	1.4571 1.4571	1.4571 ETFE	1.4571 ETFE		
	Hose connection:	Tri-Clamp DN	32	32	32	32		
	Length: 700 mm* [▲]	Order No. basic pump	0150-003	0150-000	0151-003	0151-000		
	Length: 1000 mm* [▲]	Order No. basic pump	0150-004	0150-001	0151-004	0151-001		
	Length: 1200 mm* [▲]	Order No. basic pump	0150-005	0150-002	0151-005	0151-002		
	Version: PURE SL [▲]	Order No. additional price	0150-350	0150-351	-	-		
Version: PURE MS FPM [▲]	Order No. additional price	-	-	0151-350	0151-351			
Version: PURE MS EPDM [▲]	Order No. additional price	-	-	0151-352	0151-353			
[▲] Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 200–2500 mm on request								
Choice of motors		Operating data						
	MI 4	MI 4-E	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. 0030-000	0030-001	Density up to kg/dm ³	1.4	1.1	1.4	1.1	
		Weight (kg) Motor + pump tube	5.7	5.7	5.7	5.7		
	MA II 3		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. 0060-000	0060-008	Density up to kg/dm ³	1.6	1.2	1.6	1.2	
			Weight (kg) Motor + pump tube	7.5	7.5	7.5	7.5	
	MA II 5	MA II 5	MA II 5 S	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. 0060-001	0060-009	0060-091	Density up to kg/dm ³	1.8	1.3	1.8	1.3	
			Weight (kg) Motor + pump tube	8.3	8.3	8.3	8.3	
Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. It is recommended when pumping hazardous liquids.	MA II 7		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. 0060-002	0060-010	Density up to kg/dm ³	1.9	1.4	1.9	1.4	
		Weight (kg) Motor + pump tube	9.5	9.5	9.5	9.5		
	MD1xL	MD2xL	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. 0004-725	0004-735	Density up to kg/dm ³	2.8	2.8	2.8	2.8	
		Weight (kg) Motor + pump tube	4.3	4.3	4.3	4.3		
	B4/GT		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. 0004-050	0004-052	Density up to kg/dm ³	2.2	2.0	2.2	2.0	
		Weight (kg) Motor + pump tube	14.7	14.7	14.7	14.7		

The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.

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:	ETFE	ETFE	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)

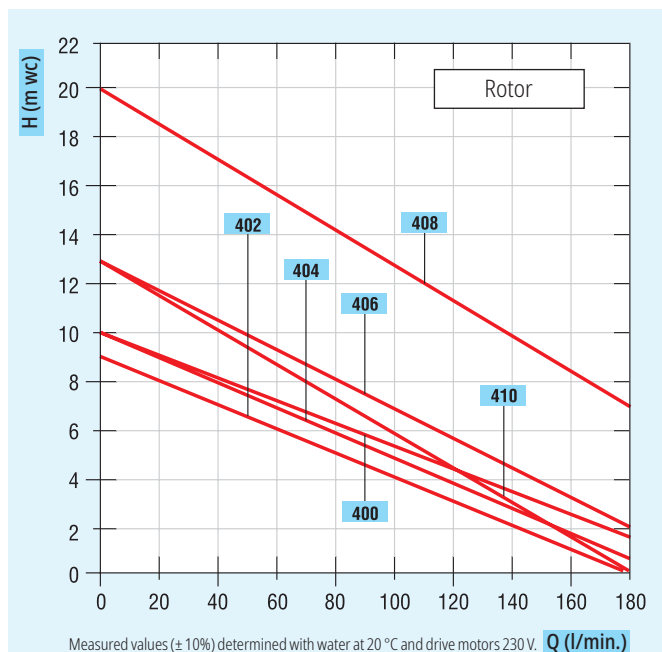
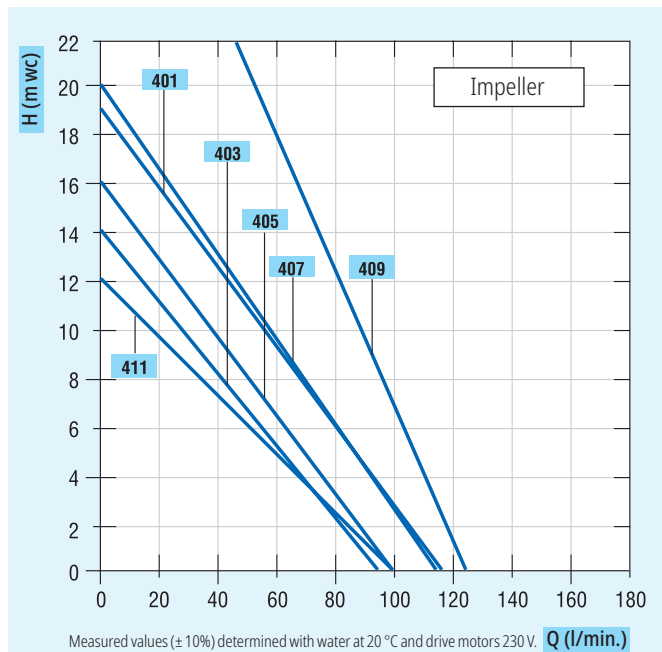
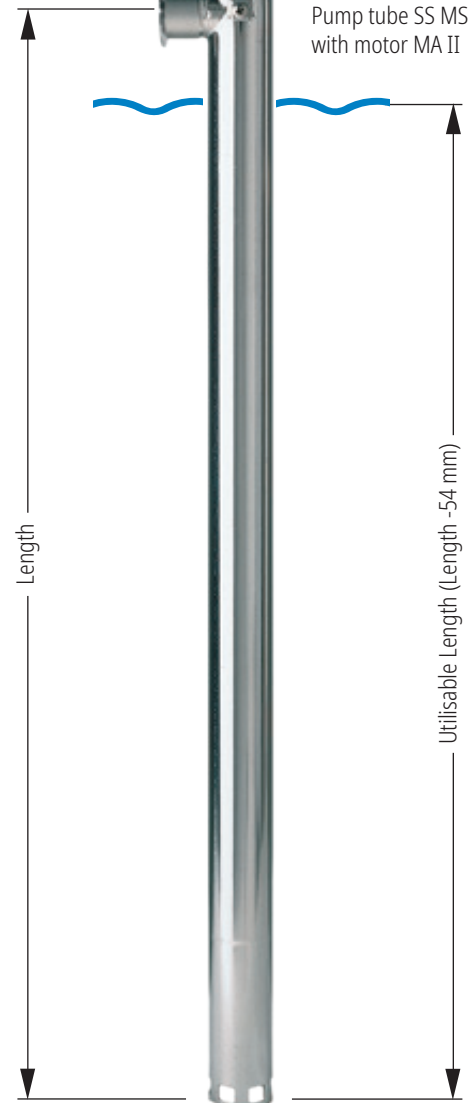



Illustration shows:
Pump tube SS MS PURE
with motor MA II



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 Impeller/Rotor	1.4571 ETFE	1.4571 ETFE
	Hose connection:	Tri-Clamp DN	32	32
	Length: 700 mm* ▲	Order No. basic pump	0151-003	0151-000
	Length: 1000 mm* ▲	Order No. basic pump	0151-004	0151-001
	Length: 1200 mm* ▲	Order No. basic pump	0151-005	0151-002
	Version: PURE FPM ▲	Order No. additional price	0151-350	0151-351
Version: PURE EPDM ▲	Order No. additional price	0151-352	0151-353	

▲ Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 200–2500 mm on request

Choice of motors Operating data

 	ME II 3	Characteristic curve no.	453	452	453	452
	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.: yes no	Viscosity up to mPas	350	200	350	200
	Order No. 0050-000 0050-016	Density up to kg/dm ³	1.6	1.2	1.6	1.2
	Weight (kg) Motor + pump tube	8.7	8.7	8.7	8.7	
 	ME II 5	Characteristic curve no.	455	454	455	454
	Output: 580 W 580 W	Flow rate up to/min.	100	190	100	190
	Voltage: 230 V 230 V	Delivery head up to m wc	16	10	16	10
	LVR.: yes no	Viscosity up to mPas	700	550	700	550
	Order No. 0050-001 0050-017	Density up to kg/dm ³	1.8	1.3	1.8	1.3
	Weight (kg) Motor + pump tube	9.6	9.6	9.6	9.6	
 	ME II 7	Characteristic curve no.	457	456	457	456
	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.: yes no	Viscosity up to mPas	500	400	500	400
	Order No. 0050-002 0050-018	Density up to kg/dm ³	1.9	1.4	1.9	1.4
	Weight (kg) Motor + pump tube	10.8	10.8	10.8	10.8	
 	ME II 8	Characteristic curve no.	459	458	459	458
	Output: 930 W 930 W	Flow rate up to/min.	123	243	123	243
	Voltage: 230 V 230 V	Delivery head up to m wc	26	15	26	15
	LVR.: yes no	Viscosity up to mPas	750	650	750	650
	Order No. 0050-042 0050-041	Density up to kg/dm ³	1.9	1.4	1.9	1.4
	Weight (kg) Motor + pump tube	10.8	10.8	10.8	10.8	
 	MD1xL MD2xL	Characteristic curve no.	461	460	461	460
	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
		Viscosity up to mPas	1000	1000	1000	1000
	Order No. 0004-725 0004-735	Density up to kg/dm ³	2.8	2.8	2.8	2.8
	Weight (kg) Motor + pump tube	4.3	4.3	4.3	4.3	

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).

The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.

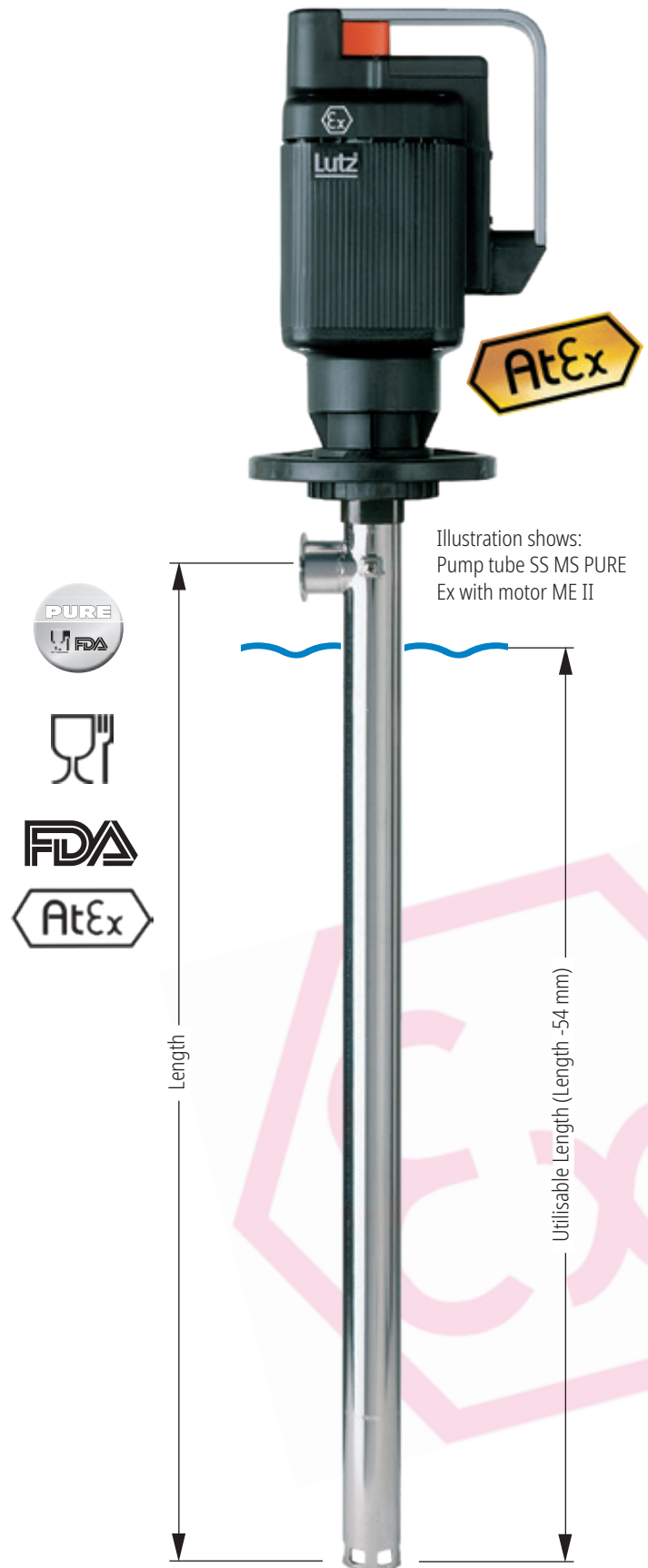
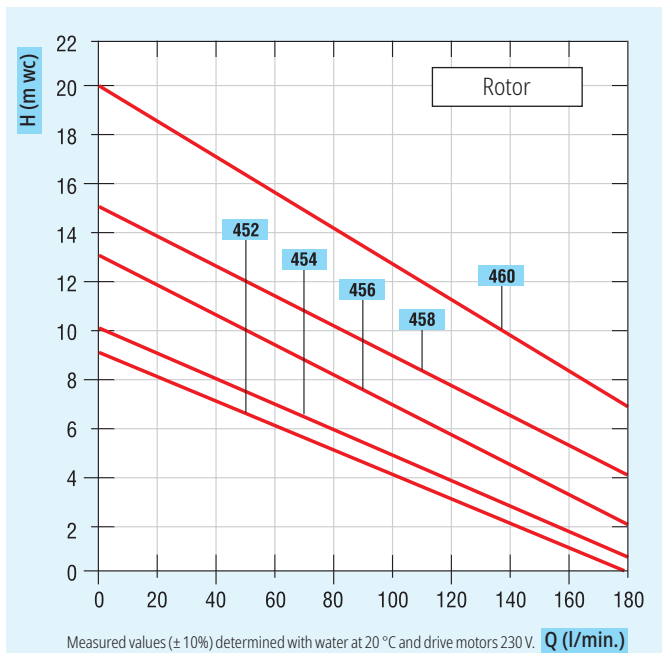
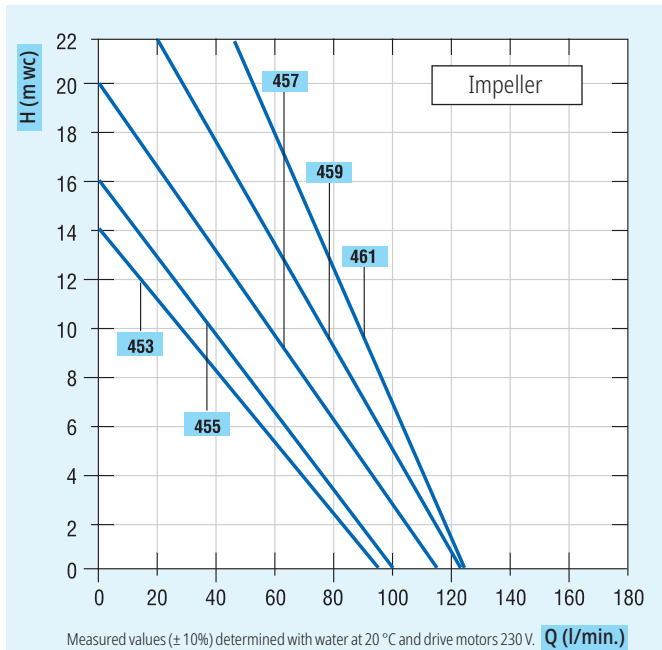
Special voltages and frequencies on request.

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)



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	0151-156	0151-156
	Length: 1000 mm* ▲	Order No. basic pump	0151-157	0151-157
	Length: 1200 mm* ▲	Order No. basic pump	0151-158	0151-158
	Version: PURE FPM ▲	Order No. additional price	–	0151-360
Version: PURE EPDM ▲	Order No. additional price	0151-361	0151-362	
▲ Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 400–2000 mm on request				
Choice of motors		Operating data		
	MI 4	MI 4-E	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/dm ³ 1.4 Weight (kg) Motor + pump tube 6.0	
	-	with speed controller		
Output:	500 W	500 W		
Voltage:	230 V	230 V		
Order No.	0030-000	0030-001		
	MA II 3		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/dm ³ 1.6 Weight (kg) Motor + pump tube 7.8	
	Output:	460 W		460 W
	Voltage:	230 V	230 V	
	LVR.:	no	yes	
	Order No.	0060-000	0060-008	
	MA II 5	Output: 575 W Voltage: 230 V LVR.: no	MA II 5	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/dm ³ 1.8 Weight (kg) Motor + pump tube 8.6
			MA II 5 S	
			acid-proof	
			Order No. 0060-001	
	MA II 7	Output: 795 W Voltage: 230 V LVR.: no	MA II 7	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/dm ³ 1.9 Weight (kg) Motor + pump tube 9.8
yes				
Order No. 0060-002				
	MD1xL	MD2xL	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/dm ³ 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.	0004-725		0004-735
	B4/GT		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/dm ³ 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.	0004-050		0004-052

Low-voltage release (LVR.): Prevents the pump from starting up again without warning after a power failure. It is recommended when pumping hazardous liquids.

The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.

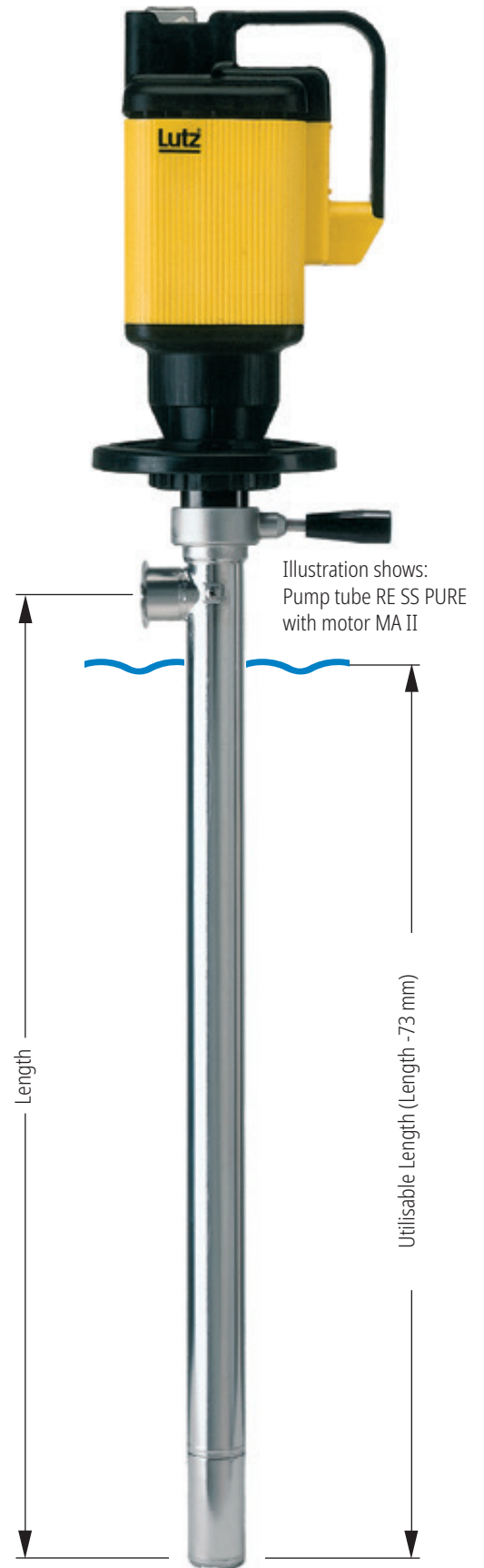
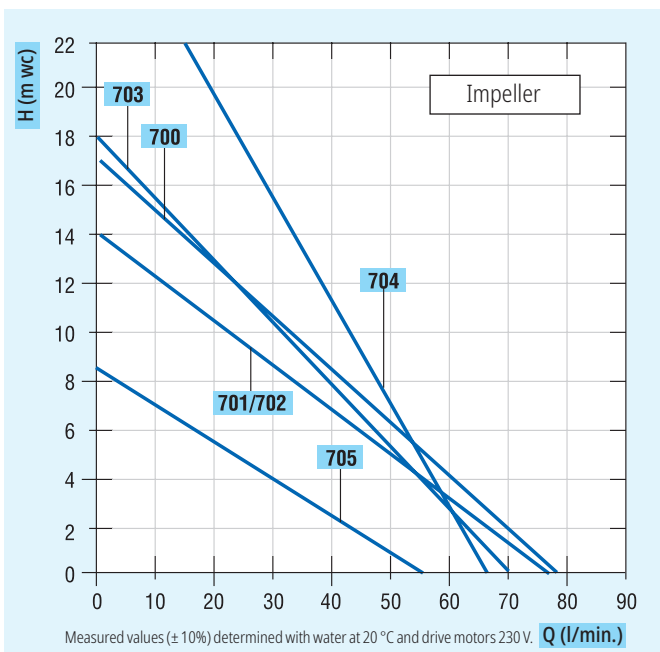
Special voltages and frequencies on request.

Pump tube RE-SS PURE (stainless steel)

for complete drum drainage of aqueous and fatty foodstuffs

Materials (coming into contact with the pumped medium):

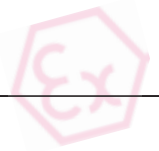
Version:	MS-FPM	MS-EPDM
Housing:	stainless steel (1.4571)	stainless steel (1.4571)
Impeller:	ETFE	ETFE, optional PP
Sealing pot:	ETFE/stainless steel (1.4571)	ETFE/stainless steel (1.4571)
Seals:	FPM, PTFE	EPDM, PTFE
Mechanical seal:	Carbon, Ceramic, PTFE, HC-4 (2.4610), stainless steel 1.4571)	Carbon,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

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	0151-156
	Length: 1000 mm* ▲	Order No. basic pump	0151-157
	Length: 1200 mm* ▲	Order No. basic pump	0151-158
	Version: PURE FPM ▲	Order No. additional price	0151-360
Version: PURE EPDM ▲	Order No. additional price	0151-362	

▲ Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 400–2000 mm on request

Choice of motors Operating data

 	ME II 3	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. 0050-000 0050-016	Density up to kg/dm ³	1.6
	Weight (kg) Motor + pump tube	9.0	
 	ME II 5	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. 0050-001 0050-017	Density up to kg/dm ³	1.8
	Weight (kg) Motor + pump tube	9.9	
 	ME II 7	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. 0050-002 0050-018	Density up to kg/dm ³	1.9
	Weight (kg) Motor + pump tube	11.1	
 	ME II 8	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. 0050-042 0050-041	Density up to kg/dm ³	1.9
	Weight (kg) Motor + pump tube	11.1	
 	MD1xL MD2xL	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. 0004-725 0004-735	Density up to kg/dm ³	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).

The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.

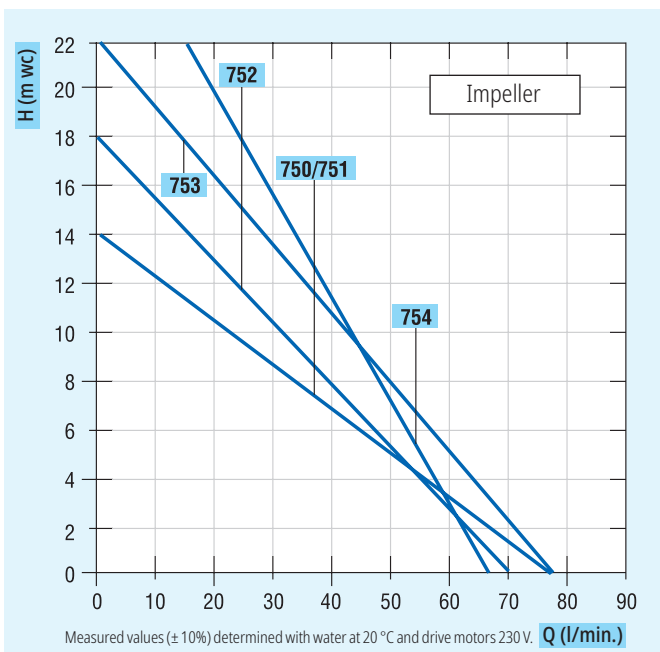
Special voltages and frequencies on request.

Pump tube RE-SS PURE (stainless steel)

for complete drum drainage of alcoholic, highly flammable foodstuffs

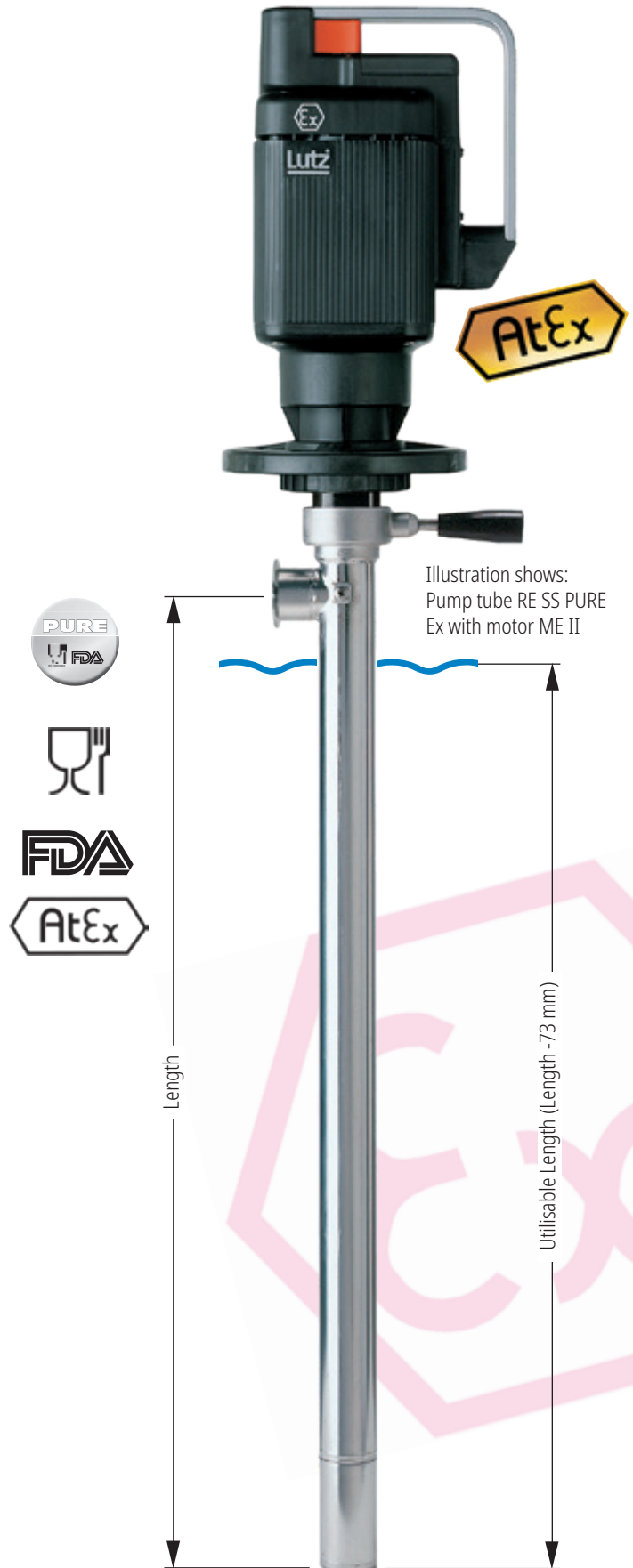
Materials (coming into contact with the pumped medium):

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".



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 Rotor	1.4571 SS	1.4571 ETFE	
	Hose connection:	Tri-Clamp DN	32	32	
	Length: 1000 mm* ▲	Order No. basic pump	0151-240	0151-240	
	Length: 1225 mm* ▲	Order No. basic pump	0151-255	0151-255	
	Version: PURE FPM ▲	Order No. additional price	–	0151-355	
	Version: PURE EPDM ▲	Order No. additional price	0151-356	0151-357	
▲ Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 600–2500 mm on request					
Choice of motors		Operating data			
	MI 4	MI 4-E	Characteristic curve no. 900 Flow rate up to/min. 210 Delivery head up to m wc 10 Viscosity up to mPas 350 Density up to kg/dm ³ 1.1 Weight (kg) Motor + pump tube 6.0		
	-	with speed controller			
Output:	500 W	500 W			
Voltage:	230 V	230 V			
Order No.	0030-000	0030-001			
	MA II 3		Characteristic curve no. 901 Flow rate up to/min. 178 Delivery head up to m wc 9 Viscosity up to mPas 200 Density up to kg/dm ³ 1.2 Weight (kg) Motor + pump tube 7.8		
	Output:	460 W		460 W	
	Voltage:	230 V	230 V		
	LVR.:	no	yes		
	Order No.	0060-000	0060-008		
	MA II 5	MA II 5	MA II 5 S	Characteristic curve no. 902 Flow rate up to/min. 190 Delivery head up to m wc 10 Viscosity up to mPas 550 Density up to kg/dm ³ 1.3 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.	0060-001	0060-009	0060-091	
MA II 7			Characteristic curve no. 903 Flow rate up to/min. 210 Delivery head up to m wc 13 Viscosity up to mPas 400 Density up to kg/dm ³ 1.4 Weight (kg) Motor + pump tube 9.8		
Output:	795 W	795 W			
Voltage:	230 V	230 V			
LVR.:	no	yes			
Order No.	0060-002	0060-010			
	MD1xL	MD2xL	Characteristic curve no. 904 Flow rate up to/min. 245 Delivery head up to m wc 21 Viscosity up to mPas 1000 Density up to kg/dm ³ 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.	0004-725	0004-735			
	B4/GT		Characteristic curve no. 905 Flow rate up to/min. 140 Delivery head up to m wc 10.5 Viscosity up to mPas 400 Density up to kg/dm ³ 2.0 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.	0004-050	0004-052			

Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. It is recommended when pumping hazardous liquids.

The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.

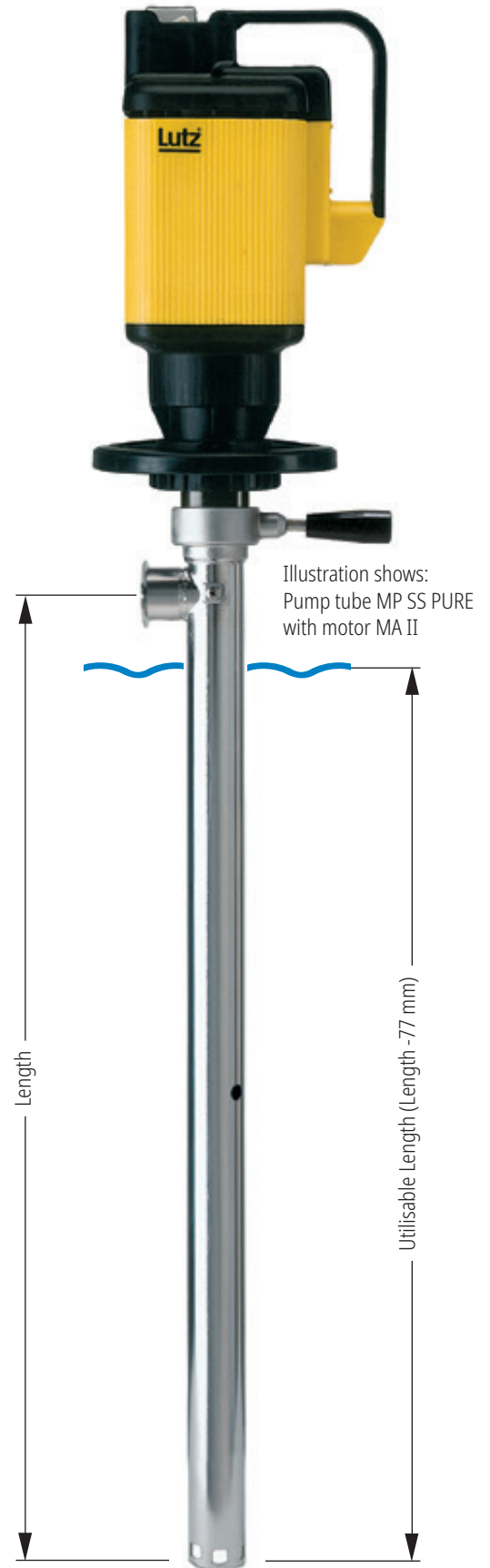
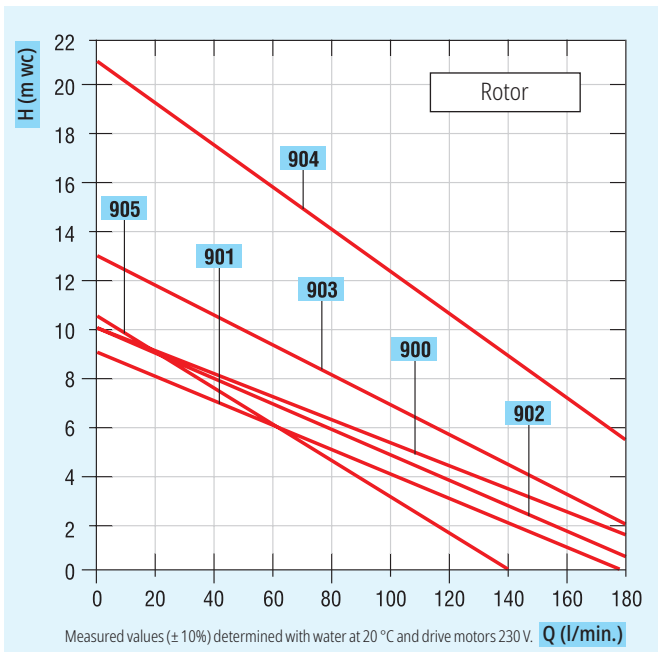
Special voltages and frequencies on request.

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)




Tip

Which pump for which liquid?
See resistance table

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	0151-240
	Length: 1225 mm*	Order No. basic pump	0151-255
	Version: PURE FPM [▲]	Order No. additional price	0151-355
Version: PURE EPDM [▲]	Order No. additional price	0151-357	

[▲] Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 600–2500 mm on request

Choice of motors Operating data

 	ME II 3	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
	Order No. 0050-000 0050-016	Density up to kg/dm ³	1.2
	Weight (kg) Motor + pump tube	9.0	
 	ME II 5	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
	Order No. 0050-001 0050-017	Density up to kg/dm ³	1.3
	Weight (kg) Motor + pump tube	9.9	
 	ME II 7	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
	Order No. 0050-002 0050-018	Density up to kg/dm ³	1.4
	Weight (kg) Motor + pump tube	11.1	
 	ME II 8	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
	Order No. 0050-042 0050-041	Density up to kg/dm ³	1.4
	Weight (kg) Motor + pump tube	11.1	
 	MD1xL MD2xL	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
		Viscosity up to mPas	1000
	Order No. 0004-725 0004-735	Density up to kg/dm ³	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).

The maximum flow rate is a value determined by means of a test bench and measured with water at a medium temperature of approx. 20°C. The measurement is carried out at the pressure joint of the pump, without hose, nozzle or flow meter. The flow rate achievable in use is lower and depends on the individual application, the media properties and the configuration of the pump. The max. delivery head is also dependent on the pump design, motor and medium. Viscosity determined with oil.

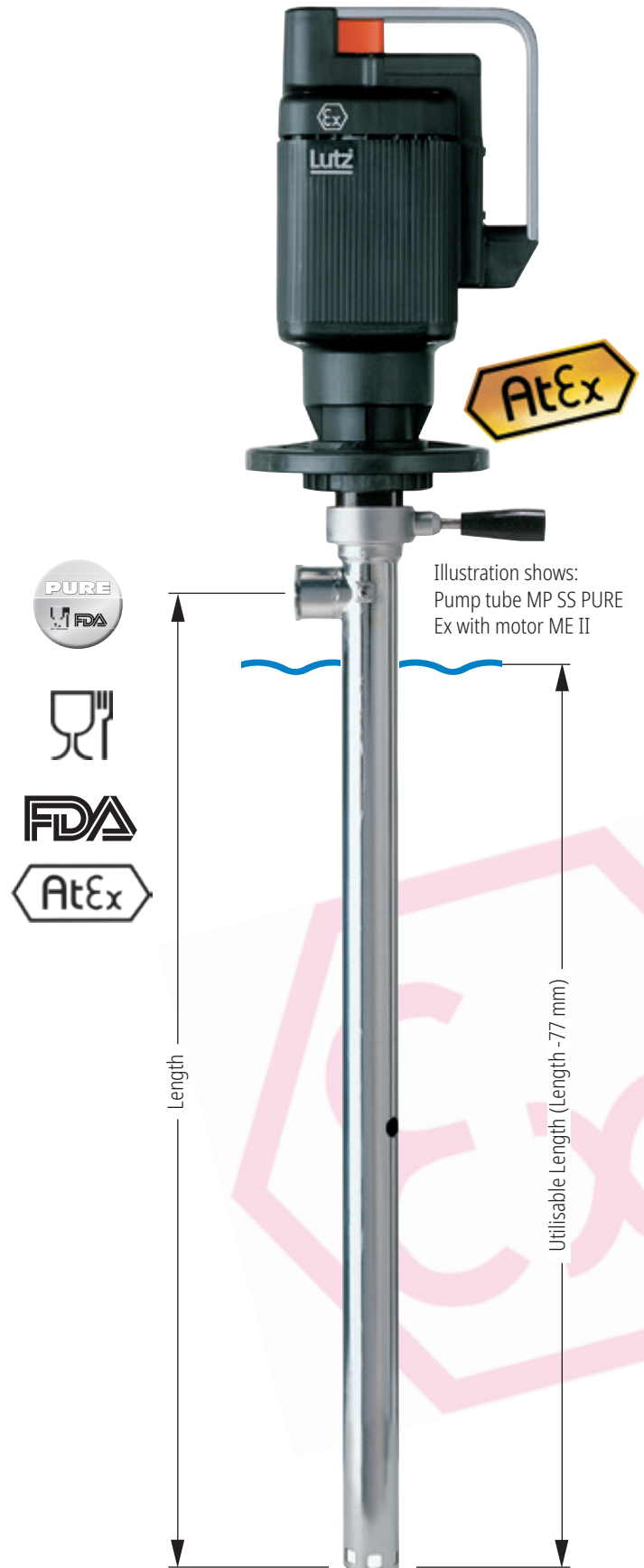
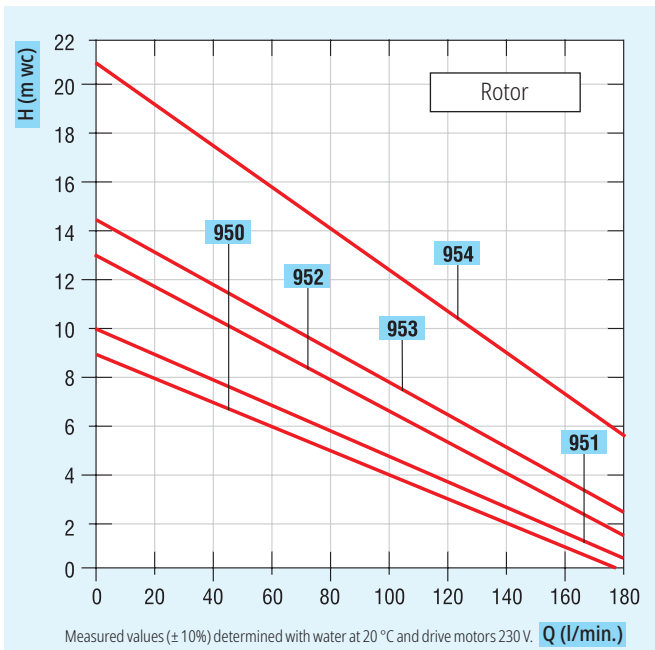
Special voltages and frequencies on request.

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)



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 up to 4,000 mPas
- + 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 HD-E-SR SS in PURE Version

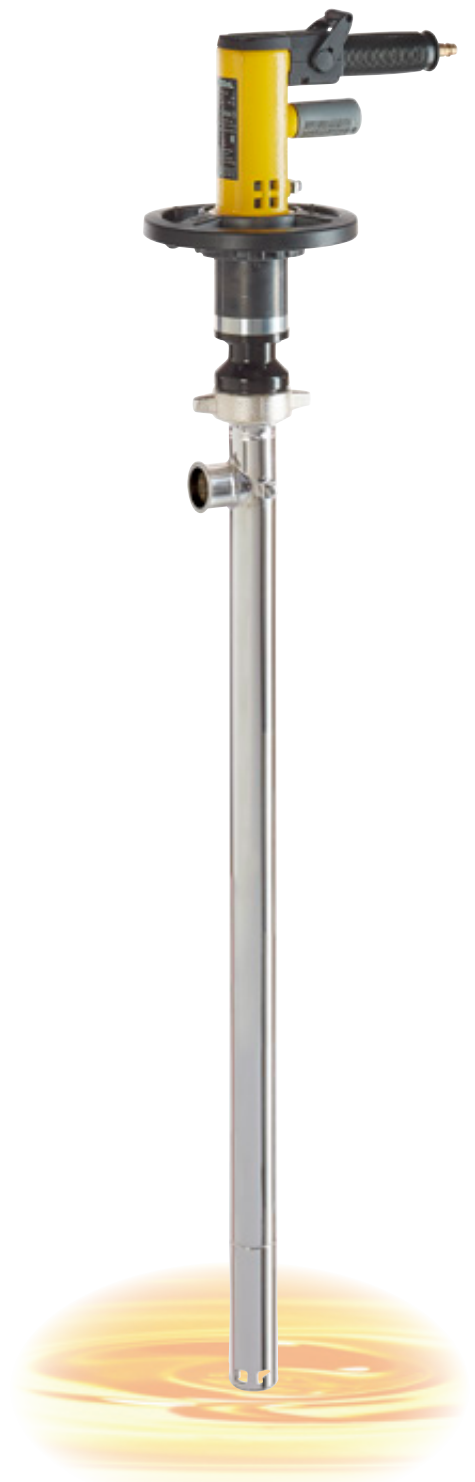
The Lutz HD-E-SR combines the advantages of a handy drum pump and the gentle operation of a robust eccentric screw pump. Ideal for pumping moderately and high viscosity raw material and foodstuffs.

- + Ideal for moderately and high viscosity liquids up to 30.000 mPas
- + For narrow-necked containers and smaller bungholes Ø 42 mm
- + Gentle product pumping
- + Quiet operation
- + Easy handling due to low weight
- + 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
- Choice of powerful compressed air motor or AC motor 230 V/ 50 Hz (110 V/ 60 Hz)



Lutz Eccentric Screw Pumps in PURE Version



Lutz Eccentric Screw Pumps B70V-SR PURE in PURE Version

This convenient and powerful pump will take you „through thick and thin“. It covers an enormous range: The B70 V-SR is suitable for aqueous to highly-viscous substances with or without fibrous or solid matters. The pump is either air operated or with 230 V AC voltage (different voltages and frequencies on request), which makes it the ideal partner, even in mobile applications. The delivery rate amounts up to 50 l/min. with a delivery head of up to 8 bar.

- + For liquids susceptible to abrasion or highly viscous liquids
- + Gentle product pumping
- + Variable flow rate (in conjunction with speed controller)
- + Easy handling
- + Easy separation of motor and pump tube by Lutz handwheel
- + 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
- Choice of powerful compressed air motor or AC motor 230 V/ 50 Hz (110 V/ 60 Hz)

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

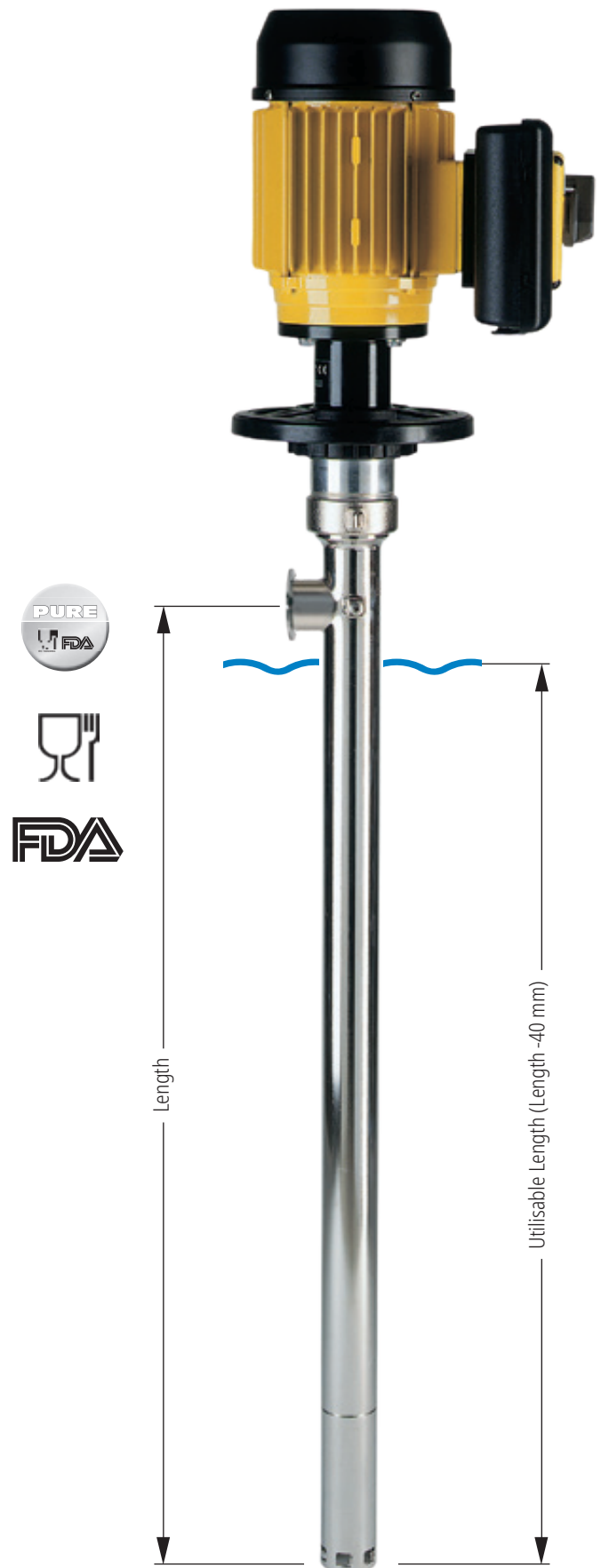
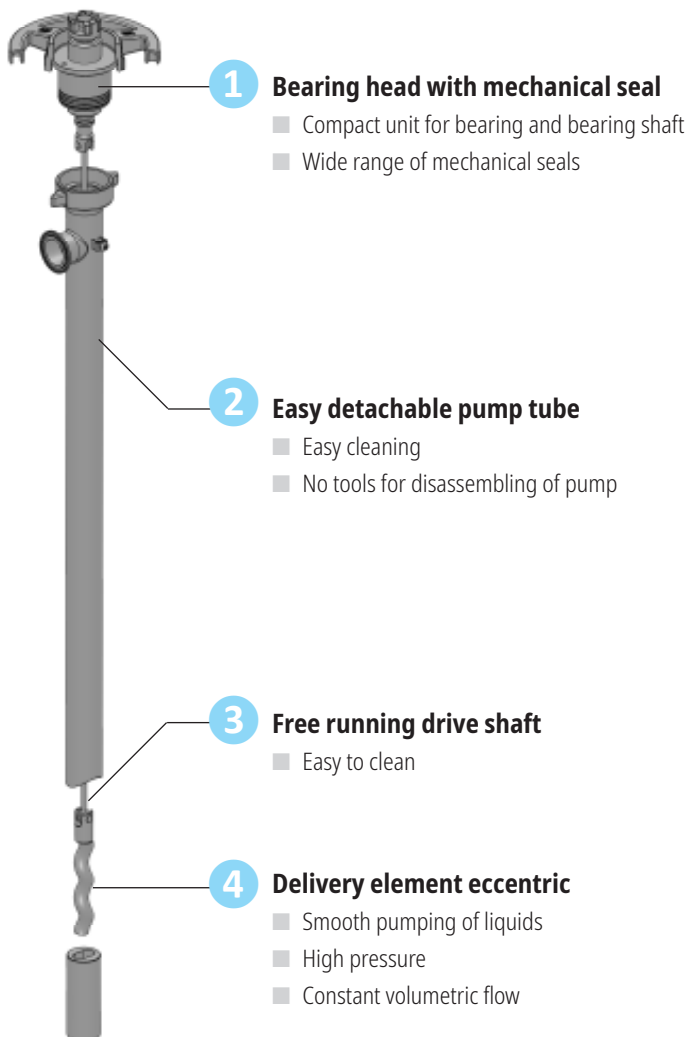
Product detail	Pump tube	HD-E PURE		
	Category 1 / 2 (acc. to ATEX)	no		
	Immersion tube diameter:	up to mm	41	
	Temperature of medium:	up to °C	100	
	Material:	Pump tube	Stainless steel (1.4571)	
		Stator	PTFE	
	Pressure joint:	Tri-Clamp DN	32	
	Weight:	kg	3.5	
	Length: 1000 mm ▲*	Order No. basic pump	0155-010	
	Version: PURE FPM ▲	Order No. additional price	0155-016	
	Version: PURE EPDM ▲	Order No. additional price	0155-017	
▲Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 600–1500 mm on request				
Choice of motors		Operating data		
	Single phase motor			
	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)	11.9
	Order No.	0155-032		

HD-E PURE

for viscosities from 500 to 4000 mPas

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)



Lutz Eccentric Screw Pumps

Lutz HD-E-SR PURE for viscous foodstuffs

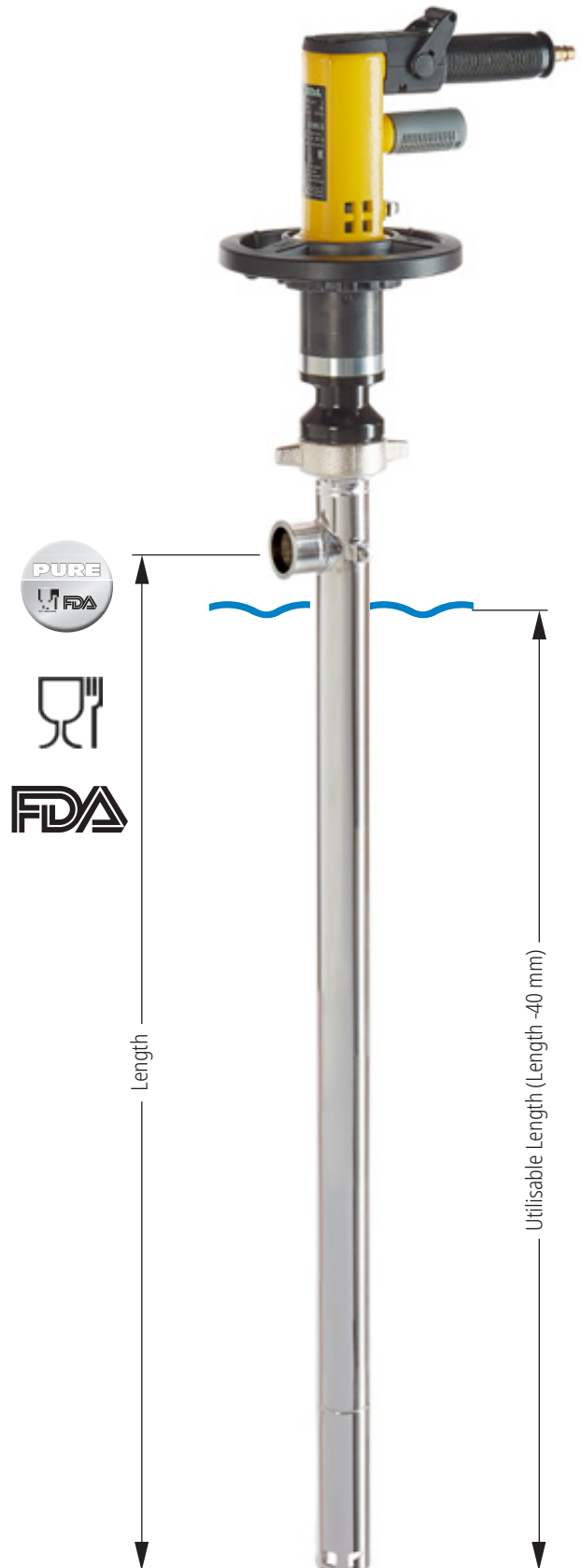
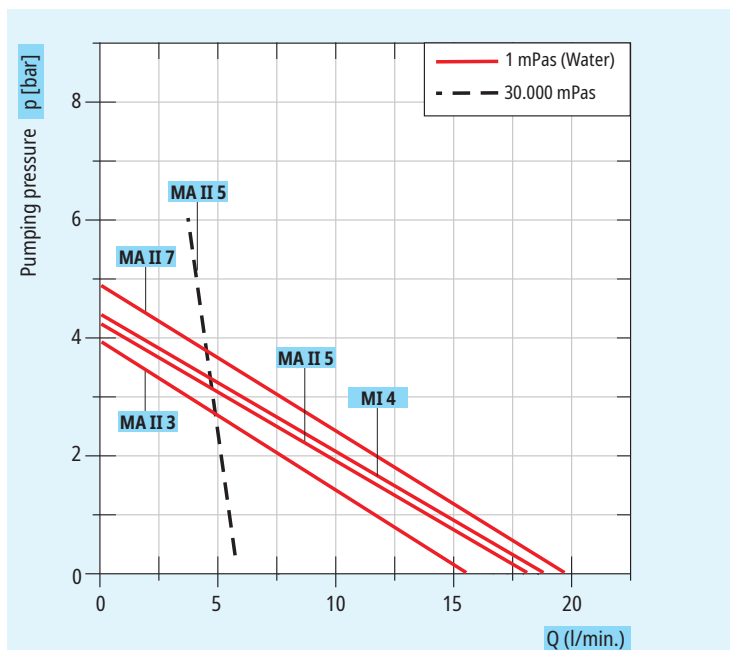
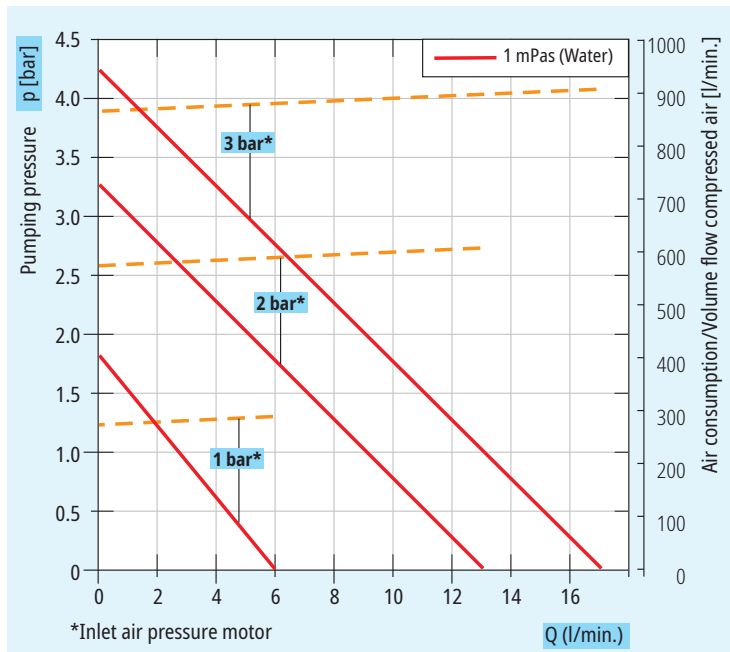
Product detail		Pump tube	HD-E-SR PURE				
	Category 1 / 2 (acc. to ATEX)		no				
	Immersion tube diameter:	max. mm	41				
	Delivery rate:	up to l/min.	17				
	Delivery head:	up to bar	6				
	Temperature of medium:	up to °C	100				
	Material:	Pump tube	Stainless steel (1.4571)				
		Stator	PTFE				
	Pressure joint:	Tri-Clamp DN	32				
	Weight:	kg	4,5				
	Length: 1000 mm *	Order No. basic pump	0155-012				
Version PURE FPM ▲	Order No. additional price	0155-016					
Version PURE EPDM ▲	Order No. additional price	0155-017					
▲Please choose Order No. basic pump + Order No. PURE additional price *The length complies approx. to dimension C in the dimension table. Special lengths 600–1500 mm on request							
Choice of motors							
	Universal motors non-ex. proof	MI 4	MI 4-E	MA II 3	MA II 5	MA II 7	
	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)	0030-000	0030-001	0060-000	0060-001	0060-002	
	Order-No. (with low-voltage release)	–	–	0060-008	0060-009	0060-010	
	Compressed air motors	MD1xL		MD2xL			
	Type	1000 W		1000 W			
	Operating pressure:	6 bar		6 bar			
	Weight	1,0 kg		1,4 kg			
	Order-No.	0004-725		0004-735			

HD-E-SR PURE

for viscosities from 500 to 30,000 mPas





Materials (coming into contact with the pumped medium)

Version:	HD-E-SR PURE FPM	HD-E-SR 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)



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		12.1	12.1	25.1	25.1	50.1	50.1	
	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	8	8	8	8
	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 ▲			0174-014	0174-024	0174-134	0174-144	0174-514	0174-524	
Order No. additional price PURE FPM ▲			0172-128	0173-138	0172-128	0173-138	0172-128	0173-138	
Order No. additional price PURE EPDM ▲			0172-129	0173-139	0172-129	0173-139	0172-129	0173-139	
▲ 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)									
*** The length complies approx. to dimension C in the dimension table. 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									
	Universal motors non-ex. proof	MI 4	MI 4-E	MA II 3	MA II 5	MA II 7			
	Type	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	
	Order-No. (without low-voltage release)	0030-000		0030-001		0060-000		0060-001	
	Order-No. (with low-voltage release)	-		-		0060-008		0060-009	
	Universal motors ex. proof	ME II 3	ME II 5	ME II 7	ME II 8				
	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)	0050-000		0050-001		0050-002		0050-042	
	Order-No. (without low-voltage release)	0050-016		0050-017		0050-018		0050-041	
	Compressed air motors	MD1xL	MD2xL						
	Type	1000 W			1000 W				
	Operating pressure:	6 bar			6 bar				
	Weight	1.0 kg			1.4 kg			infinitely variable speed	
	Order No.	0004-725			0004-735				

B70V-SR 12.1, 25.1 and 50.1 PURE

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

Materials (coming into contact with the pumped medium):

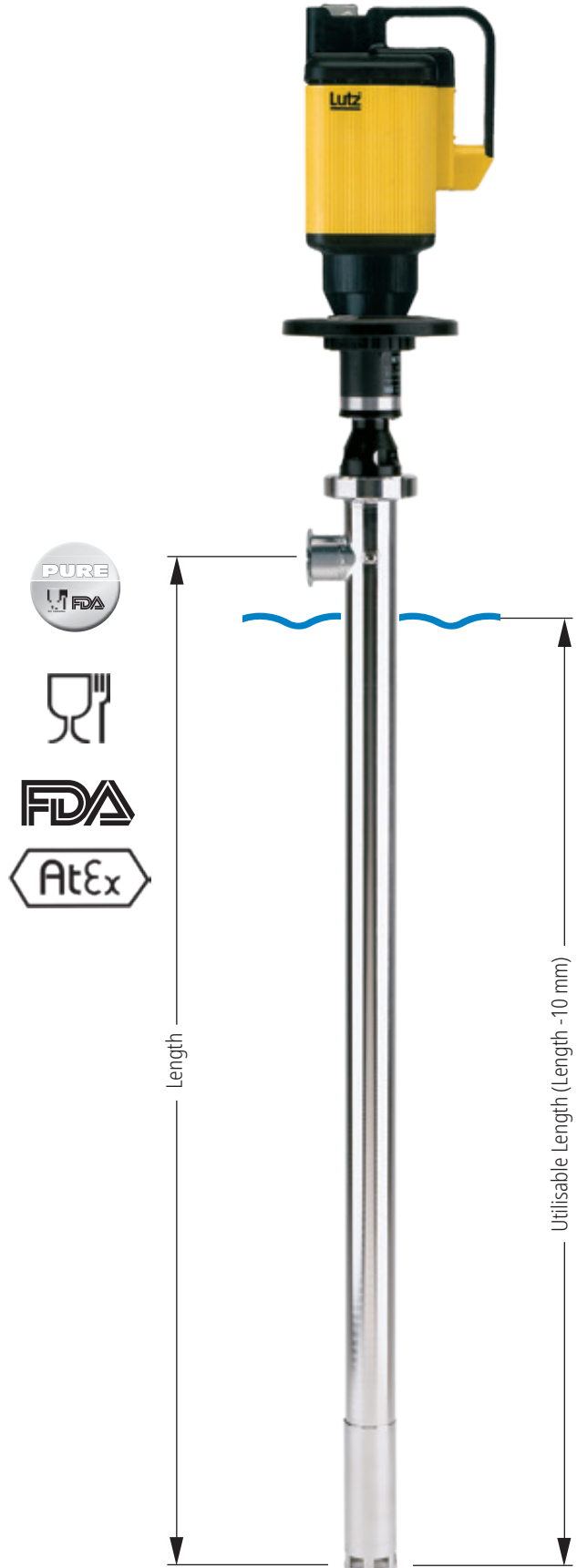
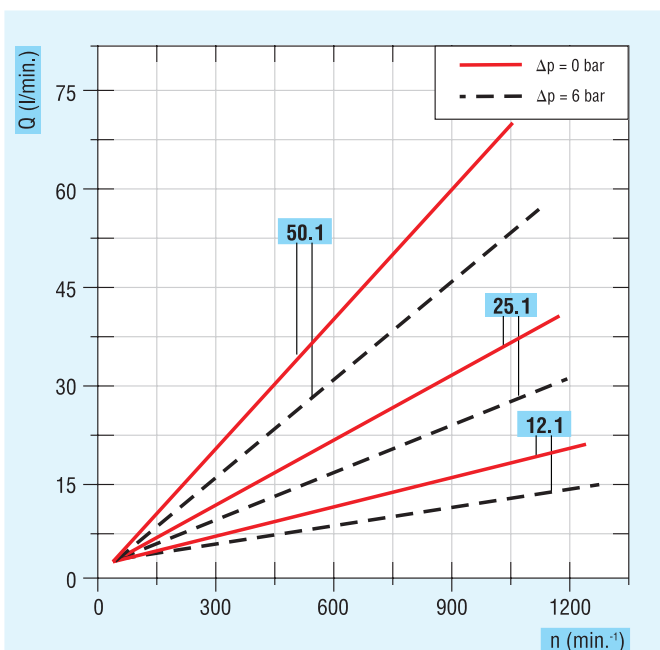
Version:	B70V-SR PURE PTFE/FPM	B70V-SR PURE PTFE/EPDM
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	EPDM
Mechanical seal:		
Torsion shaft	WC/SiC/FPM	WC/SiC/EPDM
Universal joint shaft	WC/WC/FPM	WC/WC/EPDM
Drive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

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		12.1	12.1	25.1	25.1				
	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	8	8				
	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 ▲			0172-004	0173-014	0172-124	0173-134			
Order No. additional price PURE FPM ▲			0172-128	0173-138	0172-128	0173-138				
Order No. additional price PURE EPDM ▲			0172-129	0173-139	0172-129	0173-139				
▲ 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)										
*** The length complies approx. to dimension C in the dimension table. 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										
										
Motor selection										
Motors with cable terminal box										
Version		0.75 kW, 900 1/min.			1.1 kW, 700 1/min.			1.1 kW, 900 1/min.		
Protection type/weight		IP 55 16 kg			IP 55 20 kg			IP 55 31 kg		
Order No.		0172-901			0172+826			0172-903		
Motors with protection switch										
Version		0.75 kW, 900 1/min.			1.1 kW, 700 1/min.			1.1 kW, 900 1/min.		
Protection type/weight		IP 55 22 kg			IP 55 22 kg			IP 55 32 kg		
Order No.		0172-900			0172+825			0172-902		
Motors, explosion proof										
Version		0.55 kW, 900 1/min.				0.95 kW, 900 1/min.				
Marking		II 2 G Ex e II T3				II 2 G Ex e II T3				
Protection type/weight		IP 55 17 kg				IP 55 25 kg				
Order No.		0172-804				0172-816				
Motor with frequency converter										
Version		0.75 kW, 0-900 1/min.				1.5 kW, 0-900 1/min.				
Protection type/weight		IP 55 30 kg				IP 55 35 kg				
Order No.		0172-768				0172-766				



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):

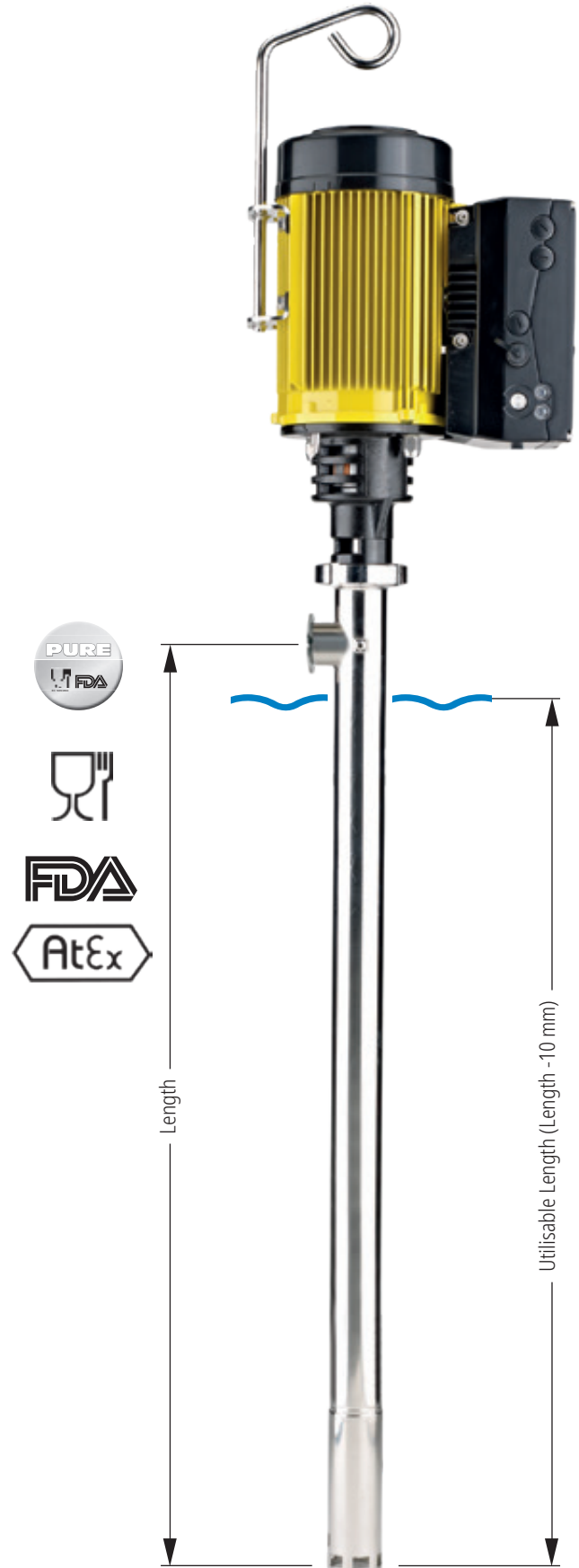
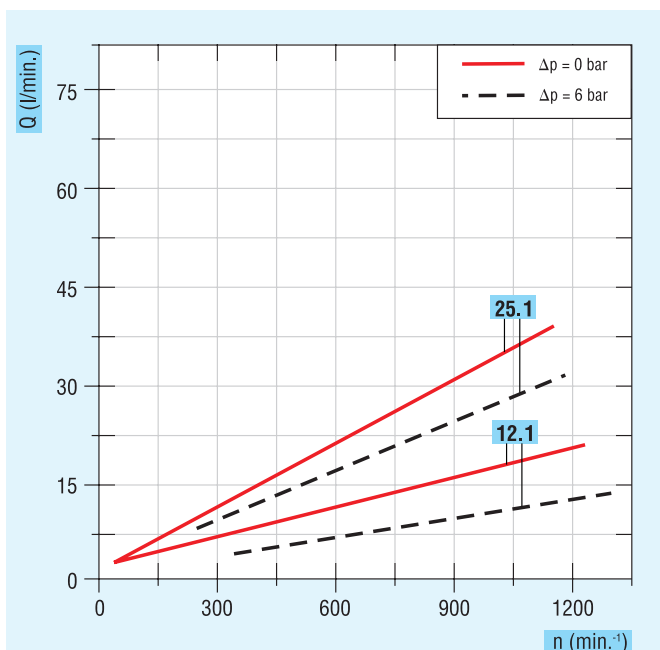
Version:	B70V PURE PTFE/FPM	B70V PURE PTFE/EPDM
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	EPDM
Mechanical seal:		
Torsion shaft	WC/SiC/FPM	WC/SiC/EPDM
Universal joint shaft	WC/WC/FPM	WC/WC/EPDM
Drive shaft: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

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	25.2		25.2		
	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 ▲		0172-254		0173-264		

Order No. additional price PURE FPM ▲	0172-128	0173-138
Order No. additional price PURE EPDM ▲	0172-129	0173-139

▲ 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)

*** The length complies approx. to dimension C in the dimension table. 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



Motor selection

Motors with cable terminal box

Version	1.1 kW, 900 1/min.	1.1 kW, 700 1/min.
Protection type/weight	IP 55 31 kg	IP 55 20 kg
Order No.	0172-903	0172+826

Motors with protection switch

Version	1.1 kW, 900 1/min.	1.1 kW, 700 1/min.
Protection type/weight	IP 54 32 kg	IP 55 22 kg
Order No.	0172-902	0172+825

Motor, explosion-proof

Version	0.95 kW, 900 1/min.
Marking	II 2 G Ex e II T3
Protection type/weight	IP 55 25 kg
Order No.	0172-816

Motor with frequency converter

Version	0.75 kW, 0-900 1/min.	1.5 kW, 0-900 1/min.
Protection type/weight	IP 55 30 kg	IP 55 35 kg
Order No.	0172-768	0172-766



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

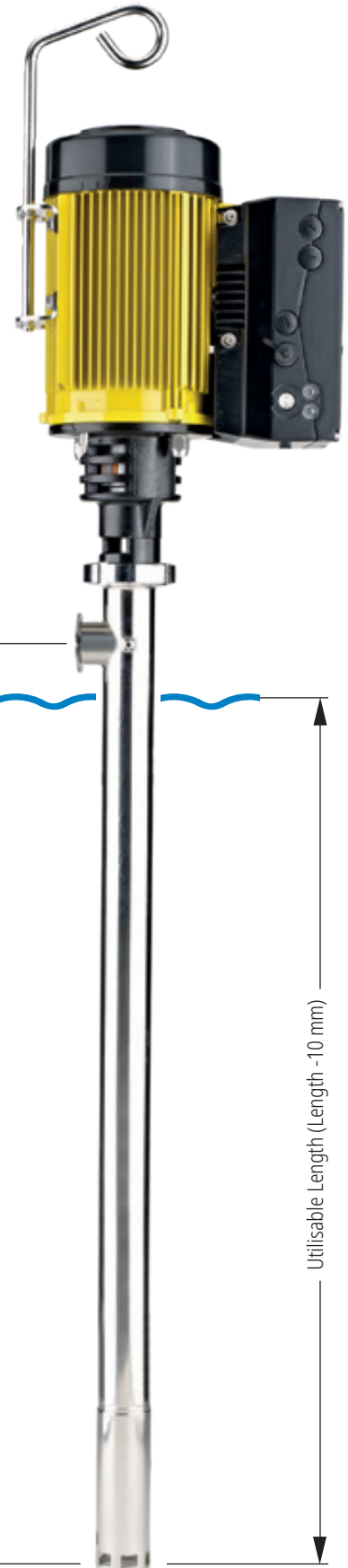
Special voltages, frequencies, protection types as well as higher explosion proof protection classes on request.

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

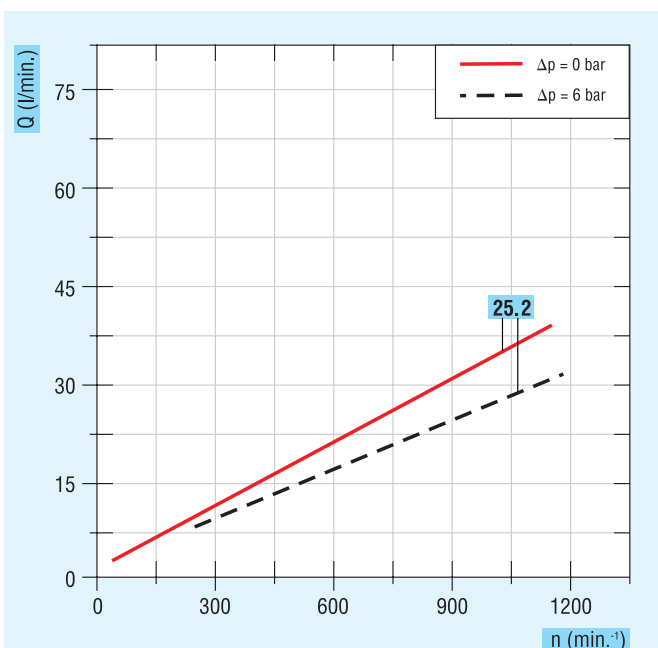


Important Information!

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		50.1	50.1	75.1			
	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	8	8		
	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 ▲			0172-504	0173-514	0173-564			
Order No. additional price PURE FPM ▲			0172-128	0173-138	0173-140			
Order No. additional price PURE EPDM ▲			0172-129	0173-139	0173-141			
<p>▲ Please choose Order No. basic pump + Order No. PURE additional price</p> <p>* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator</p> <p>** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)</p> <p>*** The length complies approx. to dimension C in the dimension table. Special length 500 - 2000 mm on request (version with joint shaft only)</p> <p>● 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</p>								
								
Motor selection								
Motors with cable terminal box								
	Version		1.1 kW, 700 1/min.		1.1 kW, 900 1/min.			
	Protection type/weight		IP 55 20 kg		IP 55 31 kg			
	Order No.		0172+826		0172-903			
Motors with protection switch								
	Version		1.1 kW, 700 1/min.		1.1 kW, 900 1/min.			
	Protection type/weight		IP 55 22 kg		IP 55 32 kg			
	Order No.		0172+825		0172-902			
Motor, explosion-proof								
	Version		0.95 kW, 900 1/min.					
	Marking		II 2 G Ex e II T3					
	Protection type/weight		IP 55 25 kg					
	Order No.		0172-816					
Motor with frequency converter								
	Version		1.5 kW, 0-900 1/min.					
	Protection type/weight		IP 55 35 kg					
	Order No.		0172-766					
<p>Three-phase motor 230/400 V, 50 Hz, Energy efficiency class IE 3 in accordance with EU regulations 640/2009 and 04/2014.</p> <p>Special voltages, frequencies, protection types as well as higher explosion proof protection classes on request.</p>								

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

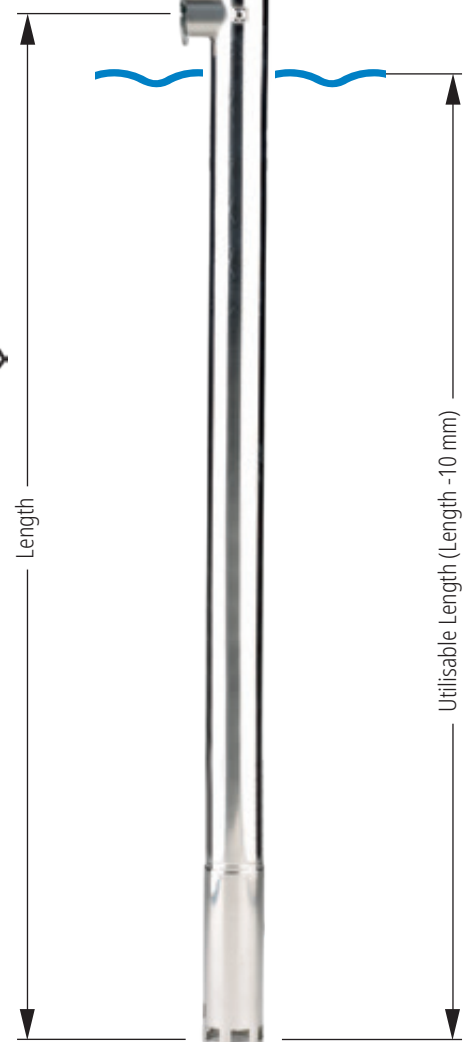
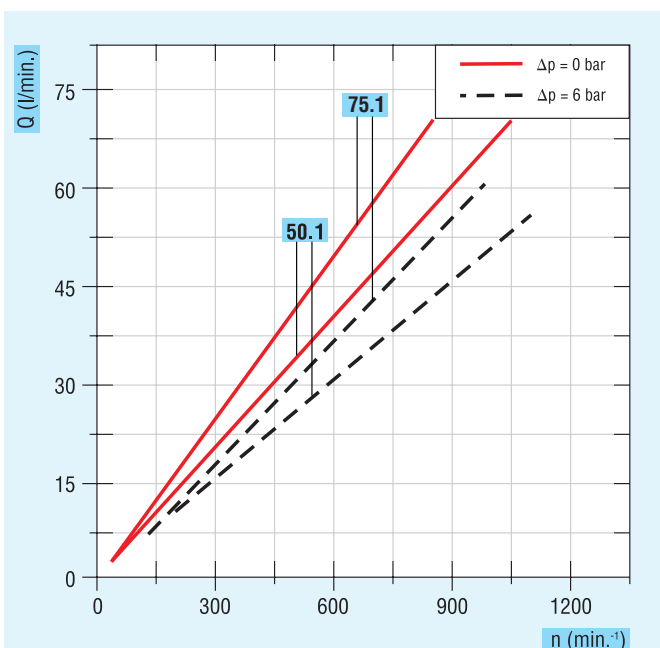


Important Information!

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	120.1
	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 ▲	0175-204
Order No. additional price PURE FPM ▲	0175-208	
Order No. additional price PURE EPDM ▲	0175-209	
▲ 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		
*** The length complies approx. to dimension C in the dimension table. 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 49 kg
Order-No.	0175-802	0175-803

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.



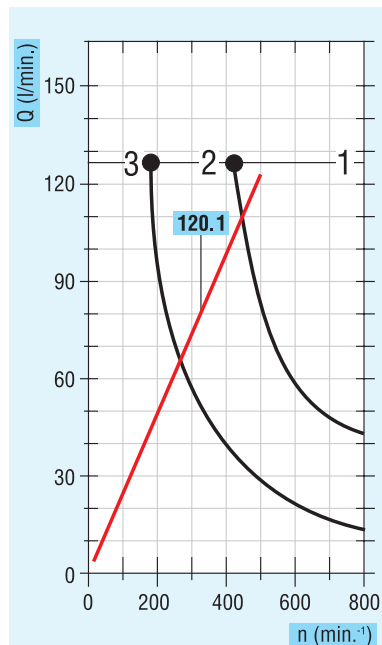
B70V 120.1 PURE

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.



Range 1:

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

Range 2:

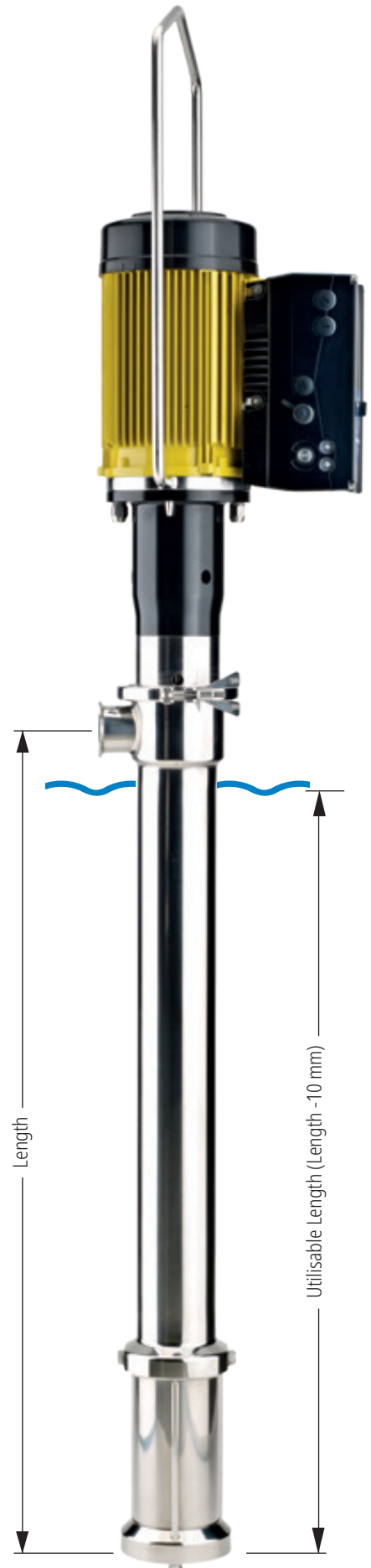
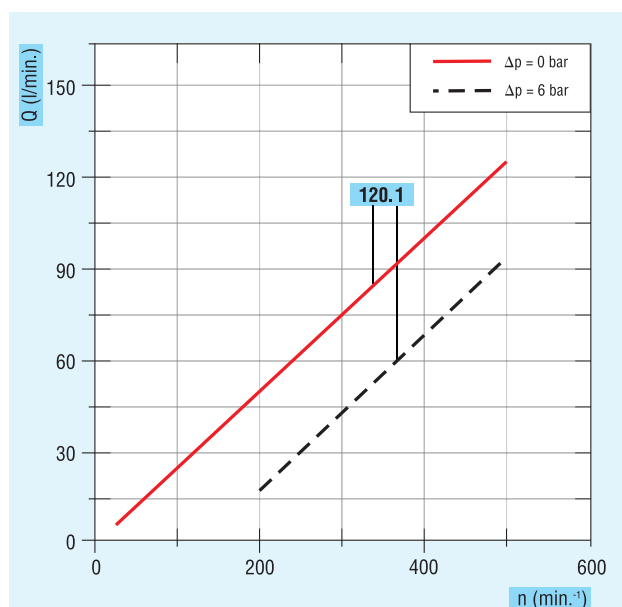
Abrasive and viscous fluids such as pulps, adhesives, paints, inks, etc.
 $\eta < 20,000$ mPas

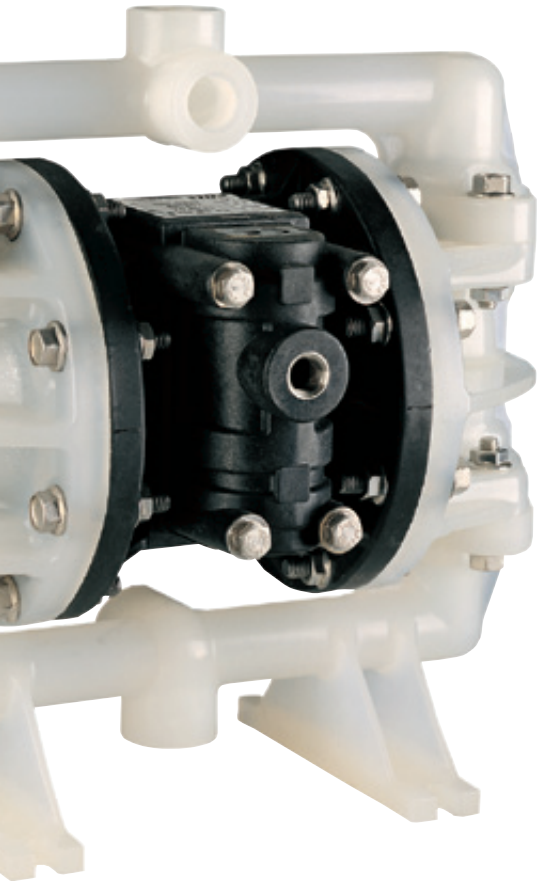
Range 3:

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

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



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 easily flammable food products



Technical data	Type VA10 PURE	Type VA10 Ex PURE
Field of application	aqueous and fatty food products	easy flammable food products
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, display sub-total and 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
Marking:		
Operating unit	–	II 2G Ex ib IIB T4 Gb** 
Basic flow meter	–	II 2G T4 Gb
Protection class	IP 55	IP 55
Weight	kg 3.7	3.7
Order No. basic unit[▲]	0231-049	0231-040 ●

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

** Type of protection II 2G Ex ib IIC T4 Gb on request

Order-No. PURE additional price [▲]	0230-330	0230-331
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[▲] Order No. basic unit + Order-No. PURE additional price

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


*** 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 easily flammable food products



Technical data		Type VA10/RM10 PURE	Type VA10/Ex-RM10mK PURE
Field of application		aqueous and fatty food products	easy flammable food products
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, display sub-total and 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
Marking:			
Operating unit		–	II 2G Ex ib IIB T4 Gb** 
Basic flow meter		–	II 2G T4 Gb
Protection class		IP 55	IP 55
Weight	kg	4.1	6.7
Relay mod.		RM10 230 V	Ex-RM10mK 230 V
Voltage	V	220-230	220-230
Frequency	Hz	50-60	50-60
Switching outputs		2 switching outputs (potentially bound)	2 switching outputs (potentially bound)
Output 1 (Pump)		8 A, cosφ > 0,7	5 A, cosφ > 0,7
Output 2 (Valve)		0.5 A	0.315 A
Marking		–	II 2G Ex db eb mb [ib] IIC T4 Gb
Order-No. Basis unit[▲]		0231-041	0231-043 ●

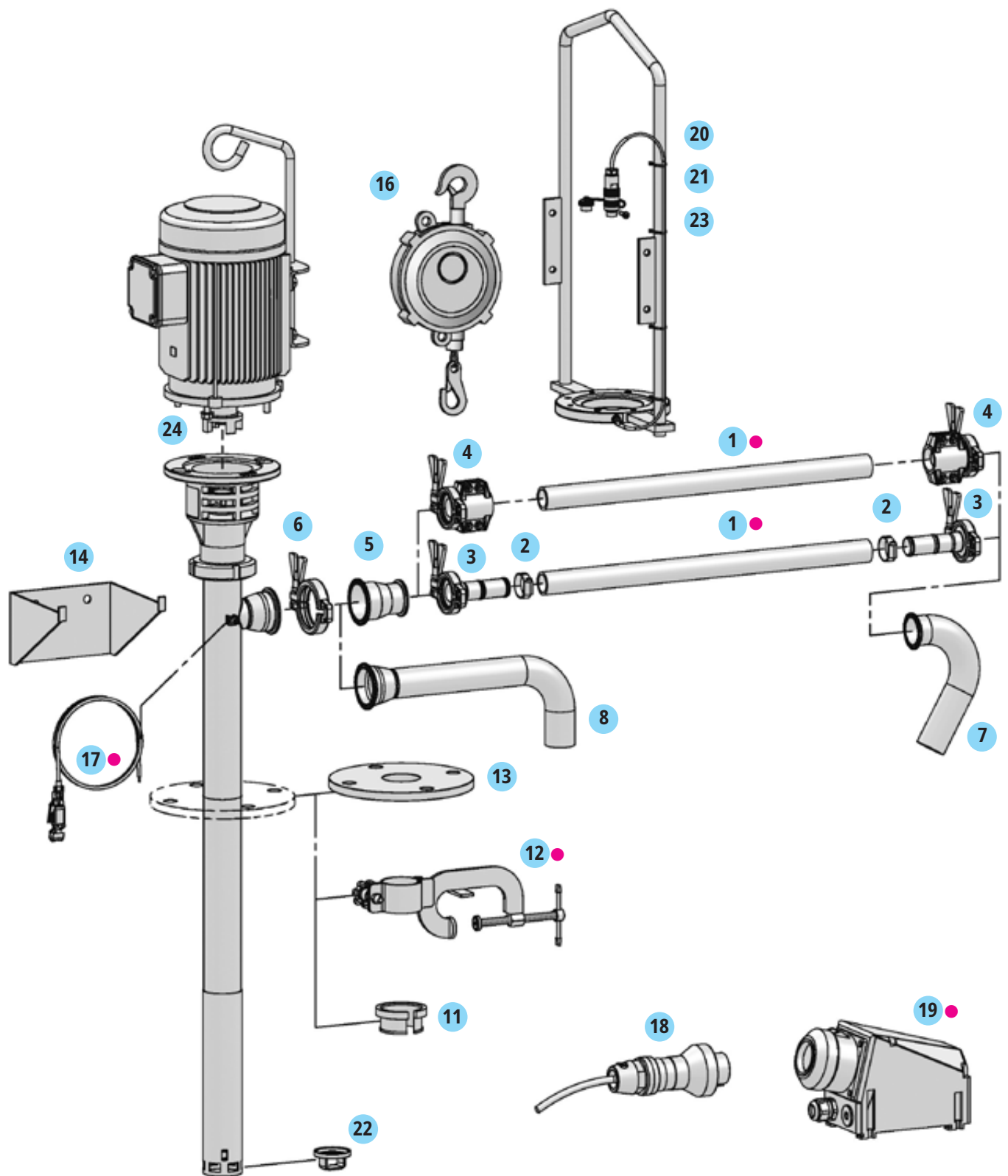
* Special materials on request General information to the chemical resistance of the different flow meters you will find in our chemical resistance list.

** Type of protection II 2G Ex ib IIC T4 Gb on request

Order-No. PURE additional price [▲]	0230-330	0230-331
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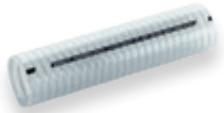
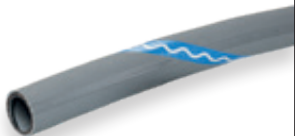

[▲] Please choose Order-No. basic unit + Order-No. PURE additional price

Accessories




- | | | |
|-------------------------------------|---|--|
| 1 ● Hose | 8 ● Discharge spout | 18 ● Ex-plug |
| 2 ● Hose clip | 11 ● Drum adapter | 19 ● Ex-socket |
| 3 ● Hose connection | 12 ● Clamping device | 20 ● Lifting device |
| 4 ● Hose connector | 13 ● Installation flange | 21 ● Impulse transmitter |
| 5 ● Tri-Clamp reducing piece | 14 ● Wall bracket | 22 ● Protection device for drum inliner |
| 6 ● Tri-Clamp locking clamp | 16 ● Balancer | 23 ● Operating unit |
| 7 ● Discharge spout | 17 ● Equipotential bonding cable | 24 ● Coupling part, motor side |

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


Specification	Order-No.	Product detail								
<p>1 PVC spiral hose, fabric reinforced</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>0374-467 0374-468 0374-469 0374-470</p>	
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>1 Universal chemical hose</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 (<10⁶ Ohm between the fittings, <10⁹ 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>0374-476 ● 0374-477 ● 0374-478 ● 0374-479 ●</p>	
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>2 Hose clips</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>0301-401 0302-402 0302-403</p>			
DN 25 (1")										
DN 32 - 38 (1 1/4" - 1 1/2")										
DN 50 (2")										

Accessories

For B70V SanitaryPlus and B70 PURE

Product detail	Specification	Order-No.																																																																														
 <p>Caution: The assembler is responsible for the professional bonding of the hose according to the current Pressure Equipment Directive.</p>	<p>3 Hose connection with Tri-Clamp 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>0204-870</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 19 (3/4")</td> <td>FPM</td> <td>0204-871</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 25 (1")</td> <td>EPDM</td> <td>0204-872</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 25 (1")</td> <td>FPM</td> <td>0204-873</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 32 (1 1/4")</td> <td>EPDM</td> <td>0204-874</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 32 (1 1/4")</td> <td>FPM</td> <td>0204-875</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td>0204-876</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td>0204-877</td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td>0172-746</td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td>0204-878</td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 50 (2")</td> <td>EPDM</td> <td>0204-879</td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 50 (2")</td> <td>FPM</td> <td>0204-880</td> </tr> </table> <p>For individual needs, e.g. for connection to on-site Tri-clamp armatures:</p> <p>Tri-clamp hose connector (1.4404):</p> <table border="0"> <tr> <td>DN 32 for hose DN 19</td> <td>0370-093</td> </tr> <tr> <td>DN 32 for hose DN 25</td> <td>0370-094</td> </tr> <tr> <td>DN 32 for hose DN 32</td> <td>0370-095</td> </tr> <tr> <td>DN 32 for hose DN 38</td> <td>0370-096</td> </tr> <tr> <td>DN 50 for hose DN 50</td> <td>0370-097</td> </tr> </table> <p>Tri-clamp locking clamp (1.4408):</p> <table border="0"> <tr> <td>DN 25/32/40</td> <td>0370-088</td> </tr> <tr> <td>DN 50</td> <td>0370-084</td> </tr> </table> <p>Tri-Clamp Seals:</p> <table border="0"> <tr> <td>DN 32, EPDM</td> <td>0314-596</td> </tr> <tr> <td>DN 32, FPM</td> <td>0314-597</td> </tr> <tr> <td>DN 40, EPDM</td> <td>0314-598</td> </tr> <tr> <td>DN 40, FPM</td> <td>0314-599</td> </tr> <tr> <td>DN 50, EPDM</td> <td>0314-590</td> </tr> <tr> <td>DN 50, FPM</td> <td>0314-591</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	0204-870	Tri-Clamp DN 32**	DN 19 (3/4")	FPM	0204-871	Tri-Clamp DN 32**	DN 25 (1")	EPDM	0204-872	Tri-Clamp DN 32**	DN 25 (1")	FPM	0204-873	Tri-Clamp DN 32**	DN 32 (1 1/4")	EPDM	0204-874	Tri-Clamp DN 32**	DN 32 (1 1/4")	FPM	0204-875	Tri-Clamp DN 32**	DN 38 (1 1/2")	EPDM	0204-876	Tri-Clamp DN 32**	DN 38 (1 1/2")	FPM	0204-877	Tri-Clamp DN 50	DN 38 (1 1/2")	EPDM	0172-746	Tri-Clamp DN 50	DN 38 (1 1/2")	FPM	0204-878	Tri-Clamp DN 50	DN 50 (2")	EPDM	0204-879	Tri-Clamp DN 50	DN 50 (2")	FPM	0204-880	DN 32 for hose DN 19	0370-093	DN 32 for hose DN 25	0370-094	DN 32 for hose DN 32	0370-095	DN 32 for hose DN 38	0370-096	DN 50 for hose DN 50	0370-097	DN 25/32/40	0370-088	DN 50	0370-084	DN 32, EPDM	0314-596	DN 32, FPM	0314-597	DN 40, EPDM	0314-598	DN 40, FPM	0314-599	DN 50, EPDM	0314-590	DN 50, FPM	0314-591	
Connection:	for hose with nominal diameter:Seal:																																																																															
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DN 25/32/40	0370-088																																																																															
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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>4 Hose connector with Tri-clamp</p> <p>For connection of conductive hose onto the eccentric screw pump B70, discharge spout or Tri-Clamp armatures in explosive hazardous area. The hose connector ensures a highly conduction transition between conductive hose and pump/armature. The ohmic resistance between the armatures must be lower than 10⁶ 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 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>0204-860 ●</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 19 (3/4")</td> <td>FPM</td> <td>0204-861 ●</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 25 (1")</td> <td>EPDM</td> <td>0204-862 ●</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 25 (1")</td> <td>FPM</td> <td>0204-863 ●</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 32 (1 1/4")</td> <td>EPDM</td> <td>0204-864 ●</td> </tr> <tr> <td>Tri-Clamp DN 32**</td> <td>DN 32 (1 1/4")</td> <td>FPM</td> <td>0204-865 ●</td> </tr> <tr> <td>Tri-Clamp DN 40**</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td>0204-866 ●</td> </tr> <tr> <td>Tri-Clamp DN 40**</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td>0204-867 ●</td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 50 (2")</td> <td>EPDM</td> <td>0204-868 ●</td> </tr> <tr> <td>Tri-Clamp DN 50</td> <td>DN 50 (2")</td> <td>FPM</td> <td>0204-869 ●</td> </tr> </table> <p>For individual needs, e.g. for connection to on-site Tri-clamp armatures:</p> <p>Tri-clamp hose connector (1.4404):</p> <table border="0"> <tr> <td>DN 32 for hose DN 19</td> <td>0300-174</td> </tr> <tr> <td>DN 32 for hose DN 25</td> <td>0300-175</td> </tr> <tr> <td>DN 32 for hose DN 32</td> <td>0300-176</td> </tr> <tr> <td>DN 40 for hose DN 38</td> <td>0300-177</td> </tr> <tr> <td>DN 50 for hose DN 50</td> <td>0300-178</td> </tr> </table> <p>Clamp collar (1.4408):</p> <table border="0"> <tr> <td>DN 19</td> <td>0300-180</td> </tr> <tr> <td>DN 25</td> <td>0300-181</td> </tr> <tr> <td>DN 32</td> <td>0300-182</td> </tr> <tr> <td>DN 38</td> <td>0300-183</td> </tr> <tr> <td>DN 50</td> <td>0300-184</td> </tr> </table> <p>Tri-Clamp locking clamp (1.4408):</p> <table border="0"> <tr> <td>DN 25/32/40</td> <td>0370-088</td> </tr> <tr> <td>DN 50</td> <td>0370-084</td> </tr> </table> <p>Tri-Clamp Seals:</p> <table border="0"> <tr> <td>DN 32, EPDM</td> <td>0314-596</td> </tr> <tr> <td>DN 32, FPM</td> <td>0314-597</td> </tr> <tr> <td>DN 40, EPDM</td> <td>0314-598</td> </tr> <tr> <td>DN 40, FPM</td> <td>0314-599</td> </tr> <tr> <td>DN 50, EPDM</td> <td>0314-590</td> </tr> <tr> <td>DN 50, FPM</td> <td>0314-591</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 Nominal diameter:	Seal:		Tri-Clamp DN 32**	DN 19 (3/4")	EPDM	0204-860 ●	Tri-Clamp DN 32**	DN 19 (3/4")	FPM	0204-861 ●	Tri-Clamp DN 32**	DN 25 (1")	EPDM	0204-862 ●	Tri-Clamp DN 32**	DN 25 (1")	FPM	0204-863 ●	Tri-Clamp DN 32**	DN 32 (1 1/4")	EPDM	0204-864 ●	Tri-Clamp DN 32**	DN 32 (1 1/4")	FPM	0204-865 ●	Tri-Clamp DN 40**	DN 38 (1 1/2")	EPDM	0204-866 ●	Tri-Clamp DN 40**	DN 38 (1 1/2")	FPM	0204-867 ●	Tri-Clamp DN 50	DN 50 (2")	EPDM	0204-868 ●	Tri-Clamp DN 50	DN 50 (2")	FPM	0204-869 ●	DN 32 for hose DN 19	0300-174	DN 32 for hose DN 25	0300-175	DN 32 for hose DN 32	0300-176	DN 40 for hose DN 38	0300-177	DN 50 for hose DN 50	0300-178	DN 19	0300-180	DN 25	0300-181	DN 32	0300-182	DN 38	0300-183	DN 50	0300-184	DN 25/32/40	0370-088	DN 50	0370-084	DN 32, EPDM	0314-596	DN 32, FPM	0314-597	DN 40, EPDM	0314-598	DN 40, FPM	0314-599	DN 50, EPDM	0314-590	DN 50, FPM	0314-591		
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Accessories

For B70V SanitaryPlus and B70 PURE

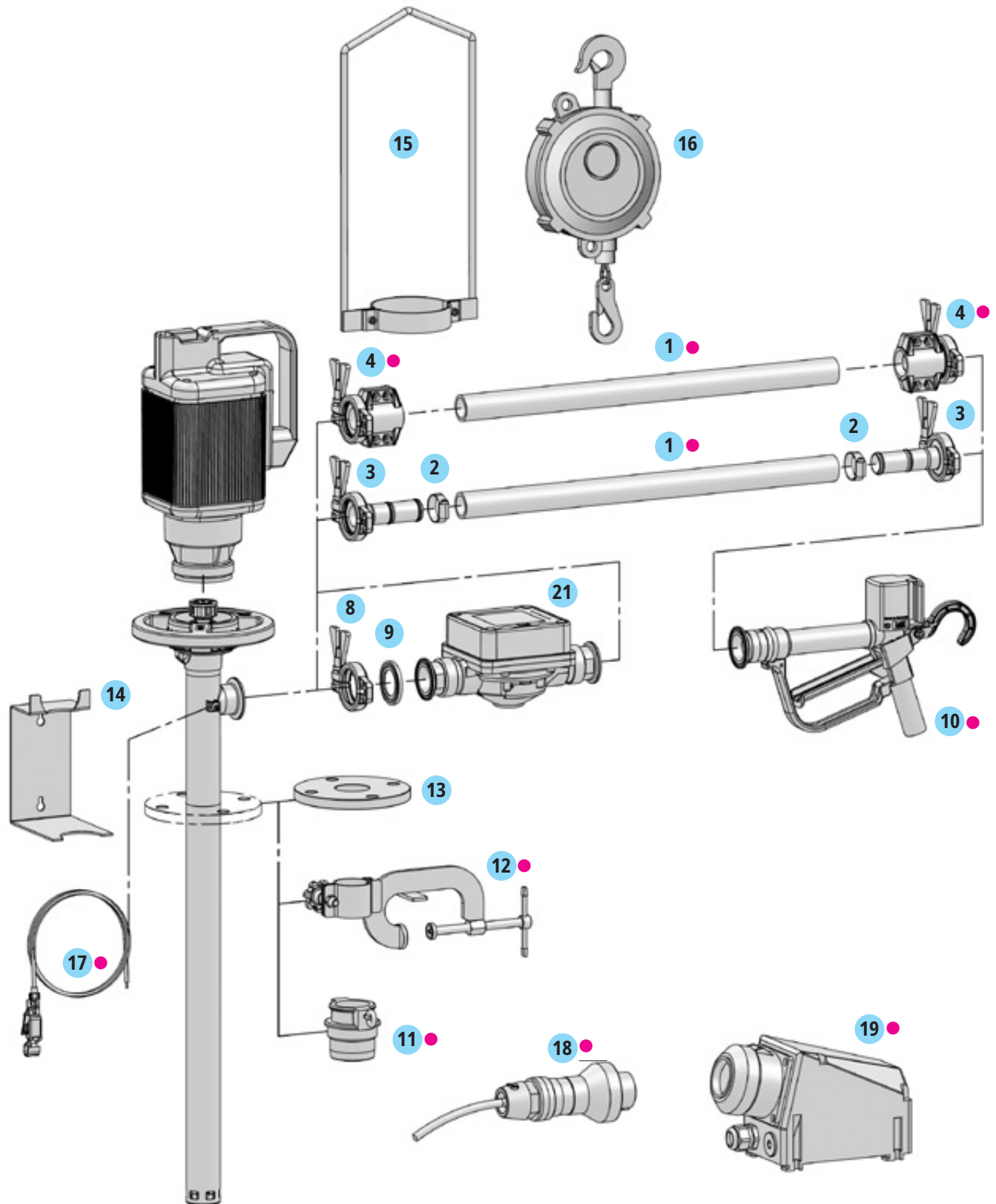
Product detail	Specification	Order-No.
	<p>5 Tri-Clamp reducing piece</p> <p>Suitable for connection of Tri-Clamp armatures DN 25/32/40 to a Tri-Clamp DN 50 connecting piece. Material: Stainless steel (1.4408)</p> <p>DN 50 onto DN 25/32/40</p>	0300-185 ●
	<p>6 Tri-Clamp locking clamp</p> <p>Suitable 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>	0172-745 ● 0204-477 ●
	<p>7 Discharge spout</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>	0370-098 ● 0370-099 ●
	<p>8 Discharge spout</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>	0172-748 ●
	<p>22 Protection device for drum inliner</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>	0173-819 ● 0175-332
	<p>11 Drum adapter in PP</p> <p>For fixing the eccentric screw pump B70 in the drum opening. For pump tube \varnothing 52-54 mm Universal for all current drum and bunghole openings</p>	0208-056
	<p>12 Clamping device SS (1.4571)</p> <p>To fasten the eccentric screw pump B70 in open-topped drums and containers. For pump tube \varnothing 52-54 mm</p>	0205-052 ●
	<p>13 Installation flange SS (1.4571)</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 \varnothing 52-54 mm</p>	0170-310
	<p>14 Wall bracket</p> <p>For safe storage of the eccentric screw pump B70 when not in use.</p> <p>for B70V for B70V-SR</p>	0204-309 0204-307

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

Specification	Order-No.	Product detail
<p>16 Balancer 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>0371-013 0371-014 0371-015</p>	
<p>17 Equipotential bonding cable 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>0204-994 ● 0204-992 ●</p>	
<p>18 Ex-plug 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>0336-536 ● 0336-540 ● 0336-537 ● 0336-541 ●</p>	
<p>19 Ex-socket 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>0336-531 ● 0336-542 ● 0336-420 ● 0336-543 ●</p>	
<p>23 Motor protective switch for motor B70V (Ex) 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>0335-414 ● 0335-419 ● 0335-420 ●</p>	
<p>24 Coupling part, motor side 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) ø 24 mm Intermediate flange for ø 28 mm</p>	<p>0302-028 0302-027 ● 0302-026 0302-029 0302-215 ● 0172-850</p>	
<p>20 Lifting device 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>0155-154 0174-607</p>	

Accessories

For PURE drum and container pumps

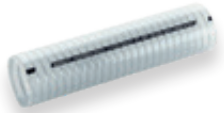
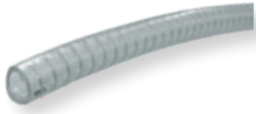
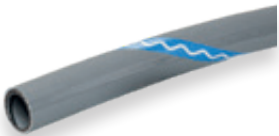


- 1 ● Hose
- 2 ● Hose clip
- 3 ● Hose connection
- 4 ● Hose connector
- 8 ● Tri-Clamp locking clamp
- 9 ● Tri-Clamp seal

- 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>1 PVC spiral hose, fabric reinforced</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>PVC-spiral hose</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 DN 32 (1 1/4") 0.66 kg/m</p>	<p>0374-466 0374-467 0374-468</p> <p>0374-457 0374-440 0374-441</p>	 
<p>1 Universal chemical hose</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 (<10⁶ Ohm between the fittings, <10⁹ 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>0374-475 ● 0374-476 ● 0374-477 ●</p>	
<p>2 Hose clips</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>0301-400 0301-401 0302-402</p>	

Accessories

For PURE drum and container pumps

Product detail	Specification	Order-No.																																																														
 <p>Caution: The assembler is responsible for the professional bonding of the hose according to the current Pressure Equipment Directive.</p>	<p>3 Hose connection with Tri-Clamp 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>0204-870</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 19 (3/4")</td> <td>FPM</td> <td>0204-871</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>EPDM</td> <td>0204-872</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>FPM</td> <td>0204-873</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>EPDM</td> <td>0204-874</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>FPM</td> <td>0204-875</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td>0204-876</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td>0204-877</td> </tr> </table> <p>For individual needs, e.g. for connection to on-site Tri-clamp armatures: Tri-clamp hose connector (1.4404):</p> <table border="0"> <tr> <td>DN 32 for hose DN 19</td> <td>0370-093</td> </tr> <tr> <td>DN 32 for hose DN 25</td> <td>0370-094</td> </tr> <tr> <td>DN 32 for hose DN 32</td> <td>0370-095</td> </tr> <tr> <td>DN 32 for hose DN 38</td> <td>0370-096</td> </tr> </table> <p>Tri-clamp locking clamp (1.4408):</p> <table border="0"> <tr> <td>DN 25/32/40</td> <td>0370-088</td> </tr> </table> <p>Tri-Clamp seals:</p> <table border="0"> <tr> <td>DN 32, EPDM</td> <td>0314-596</td> </tr> <tr> <td>DN 32, FPM</td> <td>0314-597</td> </tr> <tr> <td>DN 40, EPDM</td> <td>0314-598</td> </tr> <tr> <td>DN 40, FPM</td> <td>0314-599</td> </tr> </table> <p>3 Adapter fitting Tri-Clamp DN 32 on tube fitting DIN 11851 Rd 58 x 1/6 (DIN 405)</p> <p>0172-668</p>	Connection:	for hose with nominal diameter:	Seal:		Tri-Clamp DN 32	DN 19 (3/4")	EPDM	0204-870	Tri-Clamp DN 32	DN 19 (3/4")	FPM	0204-871	Tri-Clamp DN 32	DN 25 (1")	EPDM	0204-872	Tri-Clamp DN 32	DN 25 (1")	FPM	0204-873	Tri-Clamp DN 32	DN 32 (1 1/4")	EPDM	0204-874	Tri-Clamp DN 32	DN 32 (1 1/4")	FPM	0204-875	Tri-Clamp DN 32	DN 38 (1 1/2")	EPDM	0204-876	Tri-Clamp DN 32	DN 38 (1 1/2")	FPM	0204-877	DN 32 for hose DN 19	0370-093	DN 32 for hose DN 25	0370-094	DN 32 for hose DN 32	0370-095	DN 32 for hose DN 38	0370-096	DN 25/32/40	0370-088	DN 32, EPDM	0314-596	DN 32, FPM	0314-597	DN 40, EPDM	0314-598	DN 40, FPM	0314-599									
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	<p>4 Hose connector with Tri-clamp For connection of conductive hose onto the pump, nozzle or Tri-clamp armatures in explosive hazardous area. The hose connector ensures a highly conduction transition between conductive hose and pump/armature. The ohmic resistance between the armatures must be lower than 10⁶ 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>0204-860 ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 19 (3/4")</td> <td>FPM</td> <td>0204-861 ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>EPDM</td> <td>0204-862 ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 25 (1")</td> <td>FPM</td> <td>0204-863 ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>EPDM</td> <td>0204-864 ●</td> </tr> <tr> <td>Tri-Clamp DN 32</td> <td>DN 32 (1 1/4")</td> <td>FPM</td> <td>0204-865 ●</td> </tr> <tr> <td>Tri-Clamp DN 40</td> <td>DN 38 (1 1/2")</td> <td>EPDM</td> <td>0204-866 ●</td> </tr> <tr> <td>Tri-Clamp DN 40</td> <td>DN 38 (1 1/2")</td> <td>FPM</td> <td>0204-867 ●</td> </tr> </table> <p>For individual needs, e.g. for connection to on-site Tri-clamp armatures: Tri-clamp hose connector (1.4404):</p> <table border="0"> <tr> <td>DN 32 for hose DN 19</td> <td>0300-174</td> </tr> <tr> <td>DN 32 for hose DN 25</td> <td>0300-175</td> </tr> <tr> <td>DN 32 for hose DN 32</td> <td>0300-176</td> </tr> <tr> <td>DN 40 for hose DN 38</td> <td>0300-177</td> </tr> </table> <p>Clamp collar (1.4408):</p> <table border="0"> <tr> <td>DN 19</td> <td>0300-180</td> </tr> <tr> <td>DN 25</td> <td>0300-181</td> </tr> <tr> <td>DN 32</td> <td>0300-182</td> </tr> <tr> <td>DN 38</td> <td>0300-183</td> </tr> </table> <p>Tri-Clamp locking clamp (1.4408):</p> <table border="0"> <tr> <td>DN 25/32/40</td> <td>0370-088</td> </tr> </table> <p>Tri-Clamp Seals:</p> <table border="0"> <tr> <td>DN 32, EPDM</td> <td>0314-596</td> </tr> <tr> <td>DN 32, FPM</td> <td>0314-597</td> </tr> <tr> <td>DN 40, EPDM</td> <td>0314-598</td> </tr> <tr> <td>DN 40, FPM</td> <td>0314-599</td> </tr> </table>	Connection:	for hose with nominal diameter:	Seal:		Tri-Clamp DN 32	DN 19 (3/4")	EPDM	0204-860 ●	Tri-Clamp DN 32	DN 19 (3/4")	FPM	0204-861 ●	Tri-Clamp DN 32	DN 25 (1")	EPDM	0204-862 ●	Tri-Clamp DN 32	DN 25 (1")	FPM	0204-863 ●	Tri-Clamp DN 32	DN 32 (1 1/4")	EPDM	0204-864 ●	Tri-Clamp DN 32	DN 32 (1 1/4")	FPM	0204-865 ●	Tri-Clamp DN 40	DN 38 (1 1/2")	EPDM	0204-866 ●	Tri-Clamp DN 40	DN 38 (1 1/2")	FPM	0204-867 ●	DN 32 for hose DN 19	0300-174	DN 32 for hose DN 25	0300-175	DN 32 for hose DN 32	0300-176	DN 40 for hose DN 38	0300-177	DN 19	0300-180	DN 25	0300-181	DN 32	0300-182	DN 38	0300-183	DN 25/32/40	0370-088	DN 32, EPDM	0314-596	DN 32, FPM	0314-597	DN 40, EPDM	0314-598	DN 40, FPM	0314-599	
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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>10 Nozzle SS</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, suspension hook 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[▲] 0204-370 ● Additional price version: PURE FPM[▲] 0204-820 ● Additional price version: PURE EPDM[▲] 0204-821 ●</p> <p>[▲]Please choose Order-No. basic price nozzle + Order No. additional price version: PURE</p>		
<p>11 Drum adapter in PP</p> <p>For fixing the pump in the drum opening. For pump tube Ø 41 mm Outer thread G 2</p> <p style="text-align: right;">0208-007</p>		
<p>11 Drum adapter in PE (electrically conductive)</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 style="text-align: right;">0208-055 ● 0208-052 ● 0208-054 ●</p>		
<p>12 Clamping device SS (1.4571)</p> <p>To fasten the drum pumps in open-topped drums and containers. For pump tube Ø 41 mm</p> <p style="text-align: right;">0205-040 ●</p>		
<p>13 Installation flange SS (1.4571)</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 style="text-align: right;">0151-622</p>		
<p>14 Wall bracket</p> <p>For safe storage of the pump when not in use.</p> <p style="text-align: right;">0204-308</p>		

Accessories

For PURE drum and container pumps

Product detail	Specification	Order-No.
	<p>15 Lifting device 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>0211-047 0214-196</p>
	<p>16 Balancer 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>0371-012</p>
	<p>17 Equipotential bonding cable 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>0204-994 ●</p>
	<p>18 Ex-plug 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>0336-536 ● 0336-540 ●</p>
	<p>19 Ex-socket 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>0336-531 ● 0336-542 ●</p>
	<p>21 Modular electronic flow meter system, TS series, type VA10 in PURE version 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>8 Tri-Clamp locking clamp (1.4408) For fixing the flow meter VA10 PURE at the pump. (Suitable seal see item 9) DN 25/32/40</p>	<p>0370-088 ●</p>
	<p>9 Tri-Clamp seal 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>0314-596 0314-597 0314-598 0314-599</p>

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

Accessories

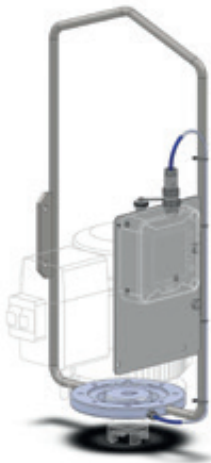
Contact-free indirect measurement



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>23 Control unit 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>Power supply unit NG10 230 V for external power supply of the operating unit 220-240 V, 50-60 Hz, II (2) G [Ex ib Gb] IIC</p>	<p>0230-000 0230-010 ●</p> <p>0230-230</p>	
Accessories optional		
<p>Relay module RM30 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 Gb] IIC</p>	0230-220	
<p>Power cable RM30 400V 400 V, 50 Hz, 5-wire, 5 m long</p>	For RM30 0211-388	
<p>Connecting cable motor RM30 400V 400 V, 50 Hz, 5-wire, 0.6 m long</p>	For RM30 0211-386	
<p>Relay module RM10 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 Gb] IIC</p>	0230-200	
<p>Power cable RM10 230V 230 V, 50 Hz, 5 m long</p>	For RM10 0211-155	
<p>Adapter cable motor RM-FU 230V/24V For three-phase motors with frequency converter 230V AC/24V DC</p>	For RM10 0230-323	

** Limited battery operation without power supply unit possible

Twice the **COMPETENCE...**



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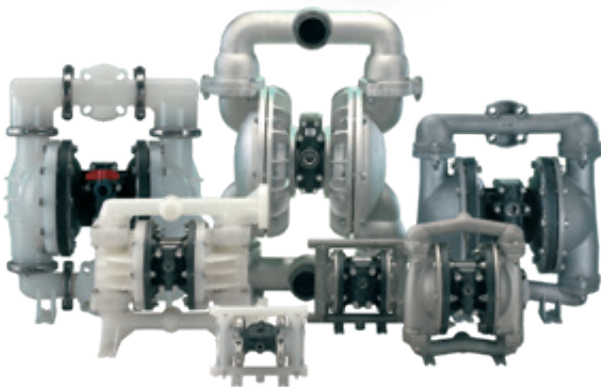
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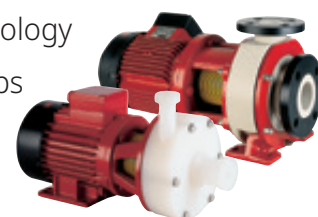
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