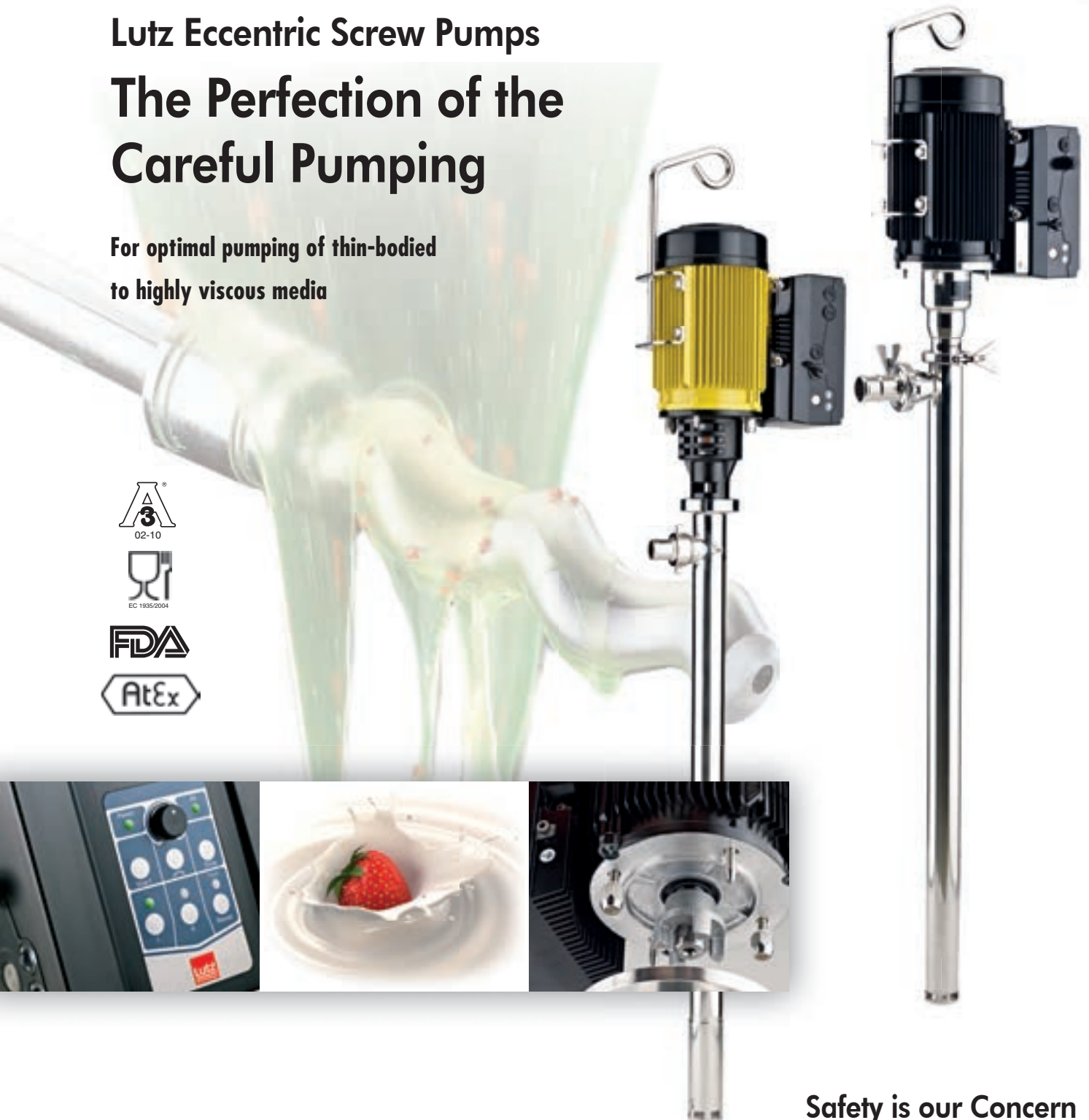



Lutz Eccentric Screw Pumps The Perfection of the Careful Pumping

For optimal pumping of thin-bodied
to highly viscous media



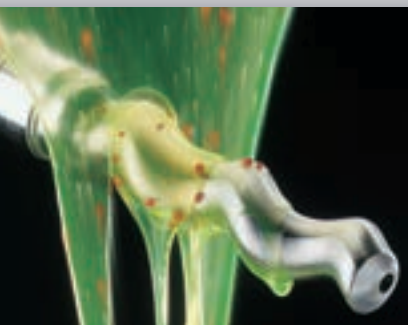
Safety is our Concern



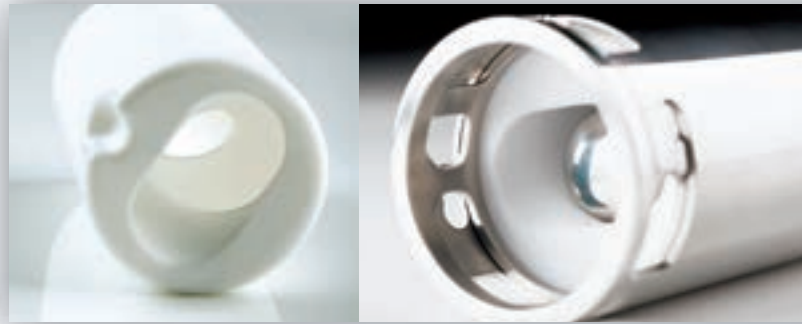
Clean results that you can rely on

Lutz vertical eccentric screw pumps are suitable for pumping media ranging from aqueous through to highly viscous Newtonian and non-Newtonian media. The pumps are suitable for abrasive media and media containing solids, but also for neutral, aggressive and easily combustible liquids under high pumping pressure.

- **Variable flow rate**
- **Large pumping volume**
- **Self-priming**
- **Dynamic shaft seal**
- **Practically no shearing effect on the pump medium**
- **Gentle and practically pulsation-free pumping**
- **Variable drive concept**



**Our expectation:
To meet standards and set benchmarks**



Function:

- The eccentric screw rotates in an elastomer or solids stator.
- The rotation leads to chambers being formed in which the media are enclosed and carried forwards.
- Gentle low-pulsation pumping principle with little shearing effect.
- Thanks to the immersed vertical set-up in the container opening, the pump works in inlet operation and can be used immediately.
- There is no suction line, meaning that you don't have to worry about having to evacuate it in advance, and no loss in suction pressure.

Industries:

The pumps are used for a multitude of purposes in the chemistry and petrochemistry, paint and lacquer, food and beverage, and pharmaceuticals and cosmetics industries.



The Lutz Highlights

A clear plus when it comes to profitability and saving time

For many years, Lutz Eccentric Screw Pumps of series B70V have established themselves in pumping a wide range of media in all industrial sectors. With innovative new products and a holistic application-oriented solution concept, Lutz has once again expanded its range of eccentric screw pumps for pumping viscous media in terms of performance, flexibility and reliability.

The Lutz highlights and new developments prove their worth particularly when it comes to specific customer requests and changing application conditions.



Variable speed control

- Flow rate can be infinitely adjusted to the working conditions (viscosity, flowability)
- The pump and pumping line are easy to empty by reversing the rotating direction
- Custom parameterisation using free-of-charge PC software or a remote control
- The basic settings and presets can be set and selected conveniently (start/stop, pump or emptying mode)
- High flexibility for changing application conditions

Motor quick-action coupling and lifting device

- Enables the motor and pump tube to be connected and separated quickly.
- Simplifies inserting or removing the pump from the container.
- Provided as standard on the B70V-D and B70V-D Sanitary series

The Lutz Highlights

New benchmarks when it comes to tank drainage



The intelligent solution: B70V 75.1

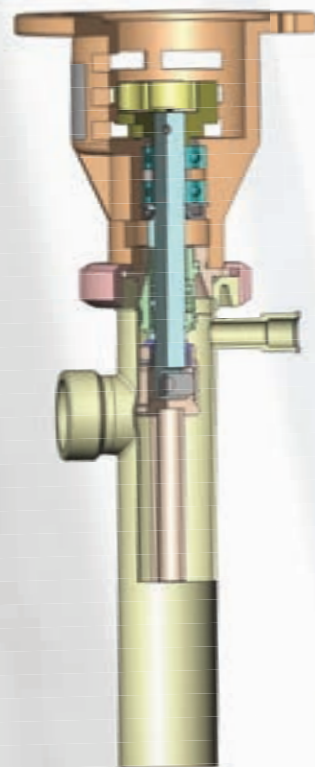
- First eccentric screw drum pump with a up to flow rate of 75 l/min from a bunghole drum
- Special rotor/stator geometry with **50% greater flow rate** while maintaining the same dimensions

The new development: B70V 120.1

- For pumping highly viscous and pasty media, through to the flowability limit
- Safe product removal from bung-lid drums, IBC containers and stationary containers with a up to flow rate of 120 l/min
- Generously dimensioned pumping geometry enables low speed to protect the product
- Hollow rotor for improved smooth running while at the same time reducing weight

Up to the challenge: B70V-HD with circulation/flushing connection

- For viscous, tacky, crystallizing, contaminated or thermosetting fluids such as paints and lacquers
- Constant rinse flow through the circulation/flushing connection prevents blockages and material deposits in the mechanical seal area
- Pump and pressure line can be emptied using the 3-phase reversible motor and rinsed with solvents
- Atex-approved



Lutz Eccentric Screw Pumps

Contact-free indirect measurement

NEW



- Flow measurement without direct contact with the medium – ideal for highly viscous, solid-containing and shear-sensitive media
- Also for hygienic, care-intensive applications in the food-, pharmaceutical- and cosmetics industry
- Easy evaluation and control with Lutz operating unit BE 10 with touchscreen display and plain text menu navigation (evaluating units and external control provided by the customer possible)
- Automatic filling of pre-selected quantities (batch function) with Lutz relay module RM10
- All live-/data elements on the motor-lifting device unit, pump tube can be detached by a quick-action coupling
- Pump tube without electronic parts – for a careful cleaning and disinfection, also by water jet or cleaning machine.

- ✓ High precision
- ✓ Contact-free
- ✓ Wear-free
- ✓ Hygienically designed
- ✓ Easy-to-clean
- ✓ Free from pressure loss
- ✓ Mobile and versatile



Lutz Eccentric Screw Pumps

in PURE version

Lutz HD-E and B70V 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 B70V PURE series includes products which are in accordance with ATEX Directives as well as with FDA Regulation and European Regulation according to 1935/2004/EC.



- ✓ Gentle pumping of viscous and shear-sensitive media
- ✓ Physiologically safe type
- ✓ High surface quality
- ✓ Food-safe connections
- ✓ Quick to dismantle, easy to clean
- ✓ Also for alcoholic food products, cosmetics and pharmaceuticals and flammable cleaning products



The “food safe” sign or “glass and fork” symbol stands for suitability for foodstuffs. This symbol denotes products which were tested to determine their physical and chemical composition and have been found to be safe for contact with food in accordance with the requirements of Regulation (EC) 1935/2004.



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).



Lutz pumps from the PURE series are also available in an explosion-proof version in accordance with ATEX Directive 94/9/EC. They are well-suited for pumping highly flammable media in food and beverage production, such as alcohols, essential oils and flavourings, as well as cleaning products and disinfectants used for cleaning purposes.



The 3-A symbol serves to identify operating equipment which conforms to the 3-A sanitary standards in terms of design and production.

The 3-A guidelines apply to the design, production and cleaning options for the daily food accessories used in the handling, production and packaging of edible products with stringent hygiene requirements.

Lutz B70V Sanitary:

Designed according to the **latest** directives for the high requirements of the food, beverage, pharmaceutical, and cosmetics industry

State of the art: the Lutz B70V Sanitary is certified according to the “3-A Sanitary Standards for Centrifugal and Positive Rotary Pumps, Number 02-10”.

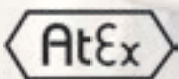
The new design provides a high level of machining on all liquid contact surfaces and ensures reliability with low maintenance and full manual cleaning.

The entire design of the Lutz B70V Sanitary places practical use in the foreground: therefore, only manually detachable, thread-free connections have been used in the areas in contact with the medium. The Lutz B70V Sanitary is easy and fast to dismantle for thorough mechanical cleaning and to reassemble.

An open type spring loaded mechanical seal is available or optionally a closed version to avoid direct contact with the product.

All materials and the seal designs conform to 3-A Sanitary Standard.

Lutz pumps from the Sanitary series are tested and approved in accordance with ATEX Directive 94/9/EC for the use in explosion hazardous areas. They are well-suited for pumping highly flammable media in food and beverage production, such as alcohols, essential oils and flavourings, as well as cleaning products and disinfectants used for cleaning purposes.





**Practical, reliable
and ready for use**

Effortless work: the drive motor can be separated from the pump tube instantly thanks to the new quick-action coupling. This allows you to go from one task to the other at any time.

Scan for
product video



Lutz Eccentric Screw Pumps

Series B70V



Light and mobile: Lutz HD-E

A tactically clever development: The HD-E simply conveys the benefits of the drum pump for thinbodied fluids to the semi-viscous range – in fact even tailored to the specific requirements. Not only is this pump convincing in terms of power, it is also very easy to handle. The other benefits are quite obvious as well: The HD-E features an outer tube that is easy to detach, a bearing head with a mechanical seal and a freewheeling shaft with an eccentric screw gear acting as pumping element – all of which is easy to detach and to clean. The delivery rate amounts up to 20 l/min. with a delivery head of up to 4 bar. Drive: 230 V AC voltage.



Light and convenient: Lutz B70 V-SR

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 6 bar.



up to 75 l/min.



Robust and versatile: Lutz B70V-D

A powerful pump that is an ideal match for semiviscous or even highly viscous, tough substances right up to their flowability limits (to 100,000 mPas). Another benefit: The B70V-D has a capacity of up to 75 l/min with a delivery head of up to 10 bar. The power transmission from the motor to the eccentric screw gear is implemented through a torsion shaft or a universal joint shaft. You can choose between air operation or 400 V three-phase.

Taking the right turn

A strong team for demanding tasks

Strength in tranquillity

Lutz Eccentric Screw Pumps are absolute specialists when it comes to pumping media gently. They sustain low amounts of wear, are robust and operationally safe, and are easy to dismantle and clean.



Gentle, reliable and hygienic: Lutz B70V Sanitary

Approved according to the 3-A Sanitary Standard, the pump has been designed according to the latest directives for the high demands in the food, pharmaceuticals and cosmetics industry. The new design provides a high level of machining on all liquid contact surfaces and ensures reliability with low maintenance and full manual cleaning. The pump can be dismantled simply; the drive motor can be separated from the pump tube instantly thanks to the new quick-action coupling. With a flow rate of 12 to 75 l/min. and an operating pressure of up to 10 bar, the Lutz B70V Sanitary is optimally suitable for pumping thin-bodied to highly viscous media gently.



Up to the challenge: Lutz B70V-HD

Developed for special requirements, and suitable with viscous, tacky, crystallizing, contaminated or thermosetting fluids such as paints and lacquers. The constant rinse flow through the circulation/flushing connection prevents blockages and material deposits in the mechanical seal area. The pump can be cleaned simply and is Atex-approved. Driven by 3-phase/compressed air motors (B70V-HD-D, DA) or universal motors (B70V-HD-SR).



Our top performer: Lutz B70V 120.1

When you're in the thick of it: for pumping highly viscous and pasty media through to the flowability limit with a flow rate of 120 l/min. It is driven by speed-reduced 3-phase current motors. A robust, independent lantern mounted on roller bearings with torsionally flexible claw-type coupling ensures secure power transmission from the IEC drive motors to the pump hydraulics. The pump can also be easily dismantled thanks to tri-clamp connections.

Lutz Eccentric Screw Pumps

Lutz HD-E



The intelligent solution for the pumping of medium-viscosity liquids.

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

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

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

Productdetail

Pump tube

HD-E



Category 1 / 2 (acc. to ATEX)		no
Immersion tube diameter:	up to mm	41
Temperature of medium:	up to °C	100
Werkstoff:	Pump tube Stator	Stainless steel (1.4571) PTFE
Hose connection: ▲	Nominal diameter mm Outer thread	19-32 G 1 1/4
Length: 1000 mm	Order-No.	0155-010

Choice of motors

Operating data



Single phase motor

Output: 0.55 kW
Voltage: 230 V
Speed: 1500 1/min.
Protection class: IP 54
Order-No. **0155-032**

Delivery rate	up to l/min.	20
Delivery head	up to bar	4
Viscosity	mPas	500-4000
Weight (kg)	Motor + pump tube	11.5

▲ PURE version Tri-Clamp DN 32

for viscosities from 500 to 4000 mPas

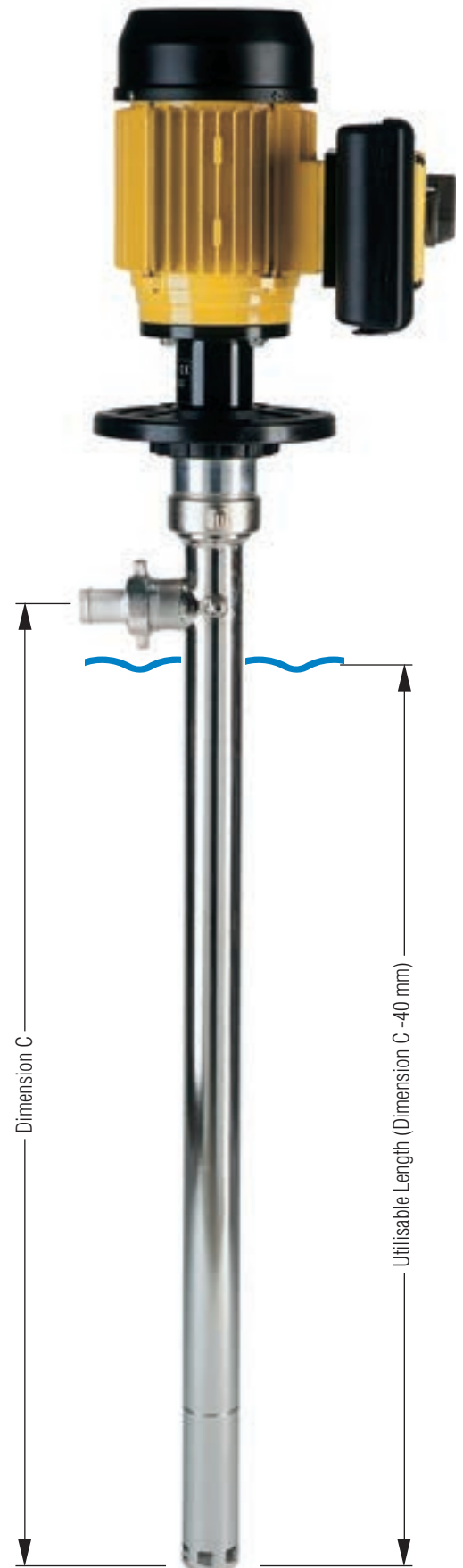
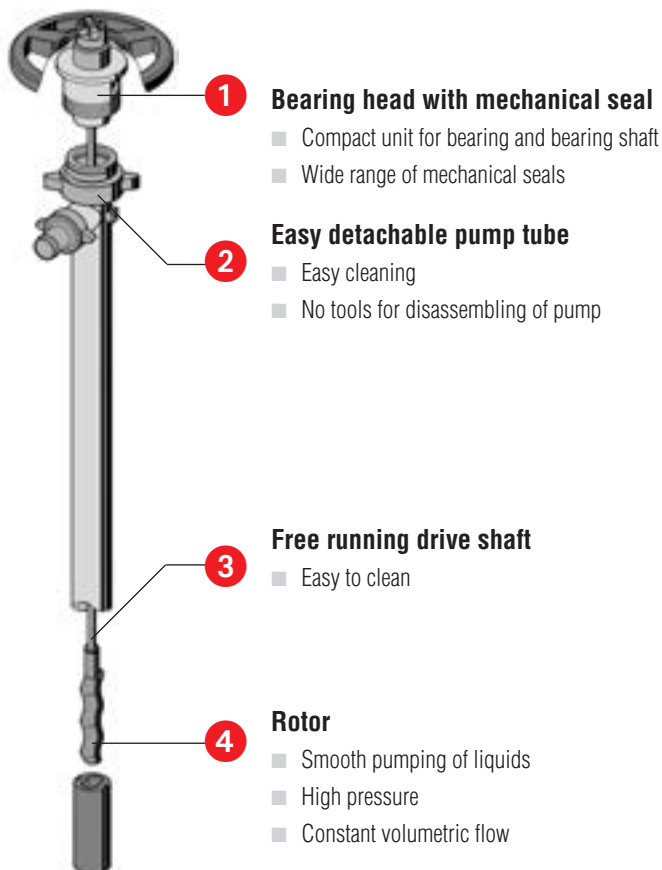
Materials (coming into contact with the pumped medium)

Version:	HD-E	HD-E PURE
Pump tube:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator:	PTFE	PTFE
Mechanical seal:	Carbon/CrMo-casting (Bellows constr.)	Stainless steel/Carbon/ EPDM-FDA
Secondary seal:	Viton®	EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)

Viton® is a registered trademark of DuPont Performance Elastomers.







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



Lutz Eccentric Screw Pumps

B70V-SR and B70V HD-SR 12.1 and 25.1

Product detail		Pump tube						B70V-SR			
	Size		12.1	12.1	12.1	25.1	25.1	25.1			
	Seal	Packing gland (St) Mechanical seal (MS)	MS	MS	St	MS	MS	St			
	Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	UJ	TS	UJ	UJ			
	Delivery rate*	up to l/min.	12	12	12	25	25	25			
	Delivery head*	up to bar	6	6	6	8	8	8			
	Temp. of medium**	up to °C	140	140	140	140	140	140			
	Material pump tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571			
	Immersion tube diameter	mm	54	54	54	54	54	54			
	Pressure joint ▲	Outer thread	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2			
	Weight	kg	7	7	7	7	7	7			
	Length***	mm	1000	1000	1000	1000	1000	1000			
	Stator NBR light (T max. 80 °C)	Order-No.	–	–	–	0174-131	0174-141	0174-121			
	Stator Viton® (T max. 140 °C)	Order-No.	–	–	–	0174-132	0174-142	0174-122			
	Stator PTFE (T max. 140 °C)	Order-No.	0174-014	0174-024	0174-004	0174-134	0174-144	0174-124			
B70V HD-SR Stator PTFE (T max. 100 °C)	Order-No.		0174-026			0174-146					
<p>* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator ** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C) *** Special length 500 - 2000 mm on request (version with joint shaft only)</p> <p>Combination of packing gland and torsion shaft on request</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping inflammable liquids of the explosion group IIA (B70V-SR) or IIB (B70V HD-SR) and temperature class T4</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 class/Weight	IP 24 2.8 kg	IP 24 2.8 kg	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg					
		-	with speed contr.								
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 explosion 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 class/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	MD-1	MD-2	MD-3							
	Type	400 W	400 W	400 W							
	Operating pressure:	6 bar	6 bar	6 bar							
	Weight	1.1 kg	1.5 kg	2.1 kg							
Order-No.	0004-087	0004-088	0004-090								

▲ PURE version Tri-Clamp DN 50 Different voltages and frequencies on request

B70V-SR and B70V HD-SR 12.1 and 25.1

for viscosities from 1 - 30,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V-SR 12.1/25.1	B70V HD-SR 12.1/25.1	B70V-SR PURE 12.1/25.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)	FPM (Viton®) or EPDM
Mechanical seal:	Carbon/CrMo-casting, Viton®	WC/WC/EPDM	WC/SiC/FKM-FDA or EPDM-FDA
Packing gland:	PTFE Soft packing safe for use with foodstuffs	–	–
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE	PTFE

Viton® is a registered trademark of DuPont Performance Elastomers.

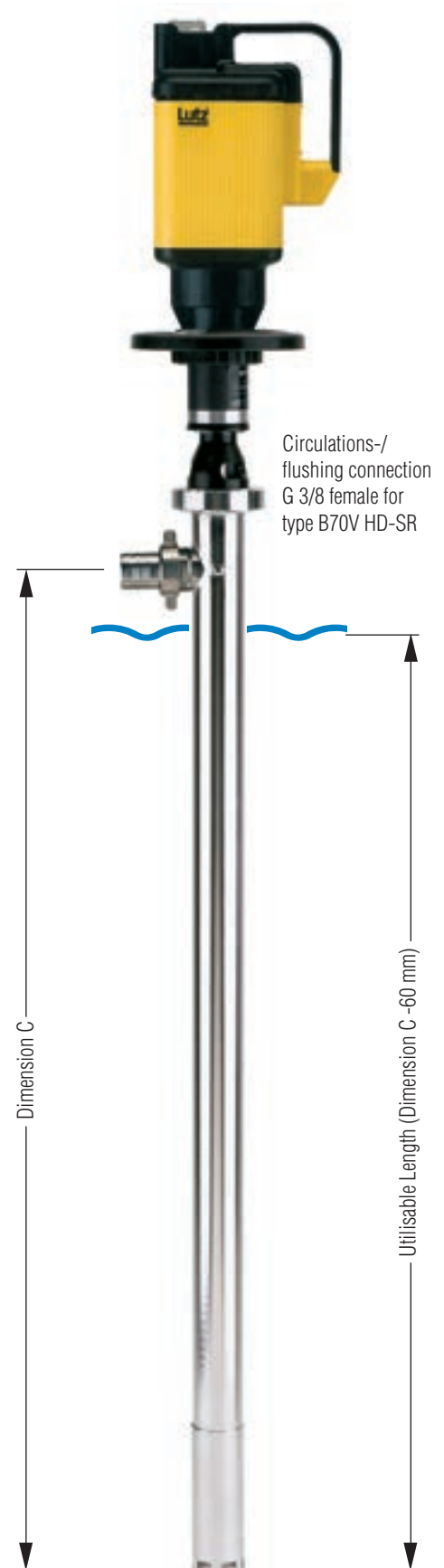
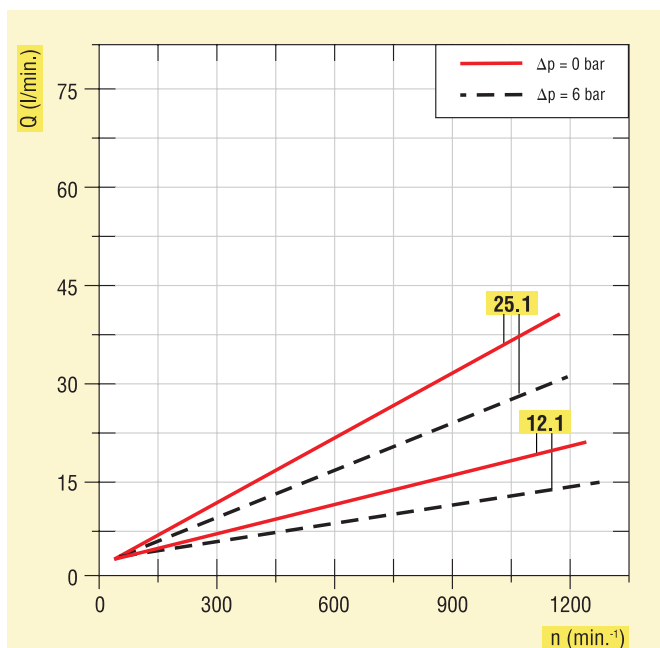


Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Important Information!





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

Viscosity range from aqueous to fluidity range.
Medium table with liquid examples see chemical resistance table.



Lutz Eccentric Screw Pumps

B70V-SR and B70V HD-SR 50.1

Product detail		Pump tube			B70V-SR		
	Size		50.1	50.1	50.1	50.1	
	Seal	Packing gland (St) Mechanical seal (MS)	MS	MS	MS	St	
	Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	UJ	UJ	
	Delivery rate*	up to l/min.	50	50	50	50	
	Delivery head*	up to bar	8	8	8	8	
	Temp. of medium**	up to °C	140	140	140	140	
	Material pump tube		1.4571	1.4571	1.4571	1.4571	
	Immersion tube diameter	mm	54	54	54	54	
	Pressure joint ▲	Outer thread	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	
	Weight	kg	7	7	7	7	
	Length***	mm	1100	1100	1100	1100	
	Stator NBR light (T max. 80 °C)	Order-No.	0174-511	0174-521	0174-501	0174-501	
	Stator Viton® (T max. 140 °C)	Order-No.	0174-512	0174-522	0174-502	0174-502	
	Stator PTFE (T max. 140 °C)	Order-No.	0174-514	0174-524	0174-504	0174-504	
B70V HD-SR Stator PTFE (T max. 100 °C)	Order-No.		0174-526				
<p>* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator ** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C) *** Special length 500 - 2000 mm on request (version with joint shaft only)</p> <p>Combination of packing gland and torsion shaft on request.</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping inflammable liquids of the explosion group IIA (B70V-SR) or IIB (B70V HD-SR) and temperature class T4</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 class/Weight	IP 24 2.8 kg	IP 24 2.8 kg	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 explosion 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 class/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	MD-1	MD-2	MD-3			
	Type	400 W	400 W	400 W			
	Operating pressure:	6 bar	6 bar	6 bar			
	Weight	1.1 kg	1.5 kg	2.1 kg			
	Order-No.	0004-087	0004-088	0004-090			

▲ PURE version Tri-Clamp DN 50 Different voltages and frequencies on request

B70V-SR and B70V HD-SR 50.1

for viscosities from 1 - 20,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V-SR 50.1	B70V HD-SR 50.1	B70V-SR PURE 50.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)	FPM (Viton®) or EPDM
Mechanical seal:	Carbon/CrMo-casting, Viton®	WC/WC/EPDM	WC/SiC/FKM-FDA or EPDM-FDA
Packing gland:	PTFE Soft packing safe for use with foodstuffs	–	–
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE	PTFE

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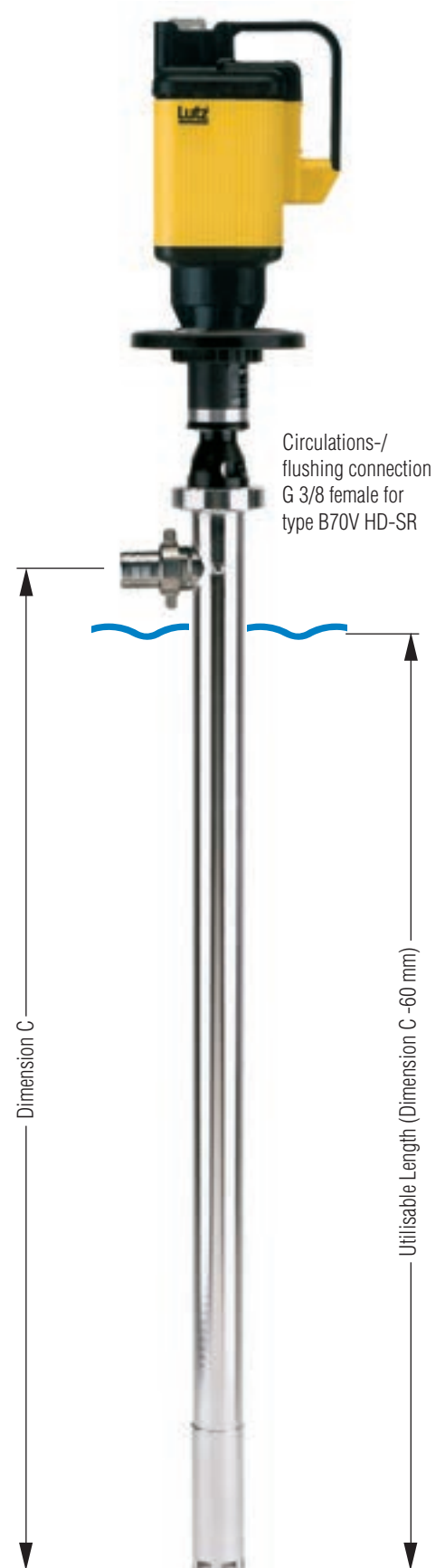
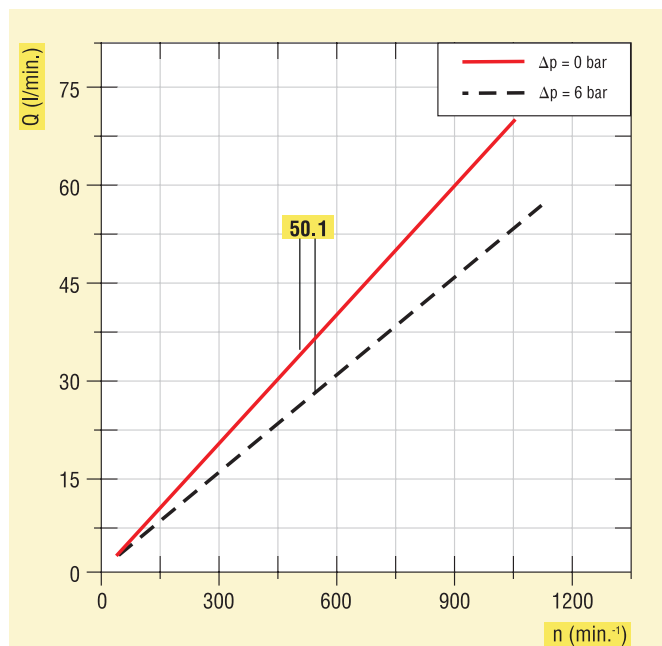


Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Important Information!


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

Viscosity range from aqueous to fluidity range.
Medium table with liquid examples see chemical resistance table.



Lutz Eccentric Screw Pumps


B70V 12.1 and 25.1



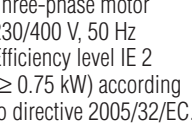
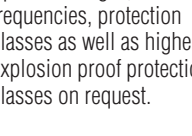

Productdetail		Pump tube							B70V	
	Size		12.1	12.1	12.1	25.1	25.1	25.1	25.1 Steel	
	Seal	Packing gland (St) Mechanical seal (MS)	MS	MS	St	MS	MS	St	MS	
	Drive shaft	Torsion shaft (TS) Universal joint shaft	TS (UJ)	UJ	UJ	TS	UJ	UJ	TS	
	Delivery rate*	up to l/min.	12	12	12	25	25	25	25	
	Delivery head*	up to bar	6	6	6	8	8	8	8	
	Temp. of medium**	up to °C	140	140	140	140	140	140	80	
	Material pump tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	Galv. Steel	
	Immersion tube diameter	mm	54	54	54	54	54	54	54	
	Pressure joint ▲	Outer thread	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	
	Weight	kg	7	7	7	7	7	7	7	
	Length***	mm	1000	1000	1000	1000	1000	1000	1000	
	Stator NBR light (T max. 80 °C)	Order-No.	–	–	–	0172-121	0173-131	0173-121	0171-121	
	Stator Viton® (T max. 140 °C)	Order-No.	–	–	–	0172-122	0173-132	0173-122	0171-122	
	Stator PTFE (T max. 140 °C)	Order-No.	0172-004	0173-014	0173-004	0172-124	0173-134	0173-124	0171-124	
	B70V HD-D Stator PTFE (T max. 140 °C)	Order-No.		0173-016			0173-136			

* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator
 ** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)
 *** Special length 500 - 2000 mm on request (version with joint shaft only)

Combination of packing gland and torsion shaft on request

● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping inflammable liquids of the explosion group IIA (B70V) or IIB (B70V HD-D) and temperature class T4



Choice of motors					
	Motors with cable terminal box	For B70V - 12.1		For B70V - 25.1	
	Type	0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.75 kW, 900 1/min.
	Protection class/Weight	IP 55 15.7 kg	IP 55 11.3 kg	IP 55 15.7 kg	IP 55 17.3 kg
	Order-No.	0172+803	0172+806	0172+809	0172+812
	Motors with protection switch	For B70V - 12.1		For B70V - 25.1	
	Type	0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.75 kW, 900 1/min.
	Protection class/Weight	IP 54 15.7 kg	IP 54 11.3 kg	IP 54 15.7 kg	IP 54 17.3 kg
	Order-No.	0172+802	0172+805	0172+808	0172+811
	Motors, explosion proof	For B70V - 12.1		For B70V - 25.1	
	Type	0.37 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.65 kW, 900 1/min.
	Protection class	II 2 G Ex e II T3	II 2 G Ex e II T3	II 2 G Ex e II T3	II 2 G Ex e II T3
	Protection class/Weight	IP 54 16.4 kg	IP 54 17.2 kg	IP 54 18 kg	IP 54 15.3 kg
Order-No.	0172-801	0172-804	0172-807	0172-810	
	Motors with frequency converter	For B70V - 12.1		For B70V - 25.1	
	Type	0.55 kW, 0-900 1/min.	0.55 kW, 0-900 1/min.	0.75 kW, 0-900 1/min.	
	Protection class/Weight	IP 54 13.5 kg	IP 54 13.5 kg	IP 54 15 kg	
	Order-No.	0172-769	0172-769	0172-768	
	Compressed air motors	For B70V - 12.1		For B70V - 25.1	
	Type	4 DA, 0.45 kW, 900 1/min., Weight 5 kg, Operating pressure at 6 bar, Air consumption 55 Nm³/h, 87 dB (A)		6 DA, 1.0 kW, 900 1/min., Weight 10 kg, Operating pressure at 6 bar, Air consumption 80 Nm³/h, 87 dB (A)	
	Air supply thread	G 3/8		G 1/2	
	Order-No.	0172-821		0172-822	

Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).

▲ PURE version Tri-Clamp DN 50

B70V 12.1 and 25.1

for viscosities from 1 - 100,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V 12.1/25.1	B70V 25.1 Steel	B70V HD 12.1/25.1	B70V PURE 12.1/25.1
Housing:	SS (1.4571)	galvanized steel	SS (1.4571)	SS (1.4571)
Rotor:	SS (1.4571)	soft-nitrided steel	SS (1.4571)	SS (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)	FPM (Viton®)	FPM (Viton®) or EPDM
Mechanical seal:	Carbon/CrMo-casting, Viton® (optional SiC/SiC, Viton®)	Carbon/CrMo-casting, Viton® (optional SiC/SiC, Viton®)	WC/WC/EPDM	WC/SiC/FKM-FDA or EPDM-FDA
Packing gland:	PTFE Soft packing safe for use with food-stuffs	-	-	-
Drive shaft:	SS (1.4571)	galvanized steel	SS (1.4571)	SS (1.4571)
Stator material:	NBR light, Viton®, PTFE	NBR light, Viton®, PTFE	PTFE	PTFE

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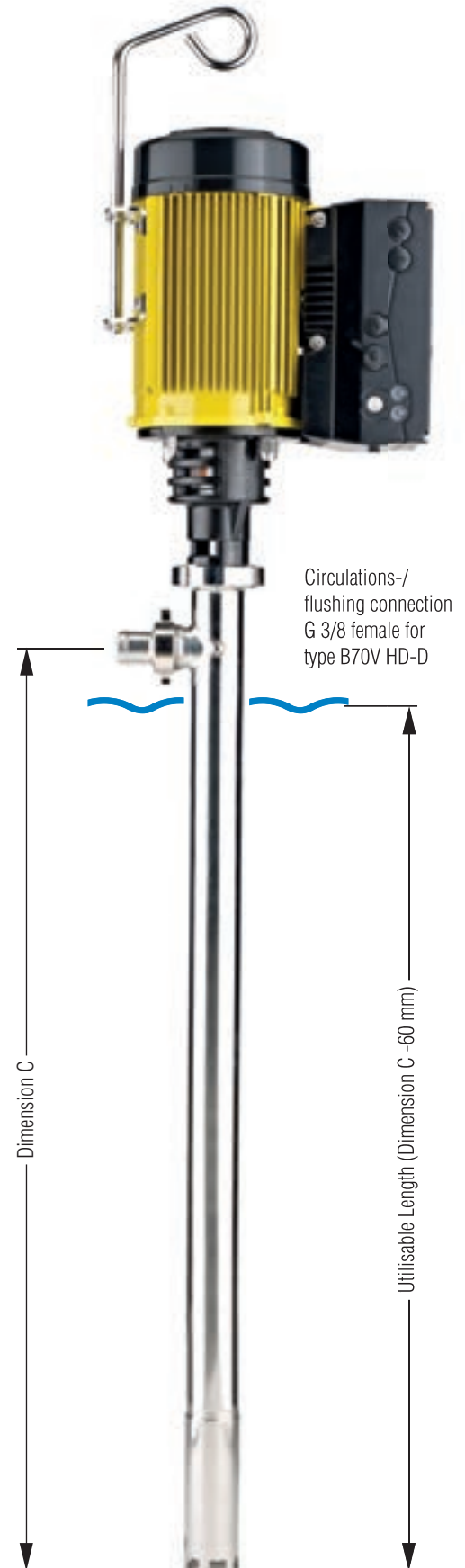
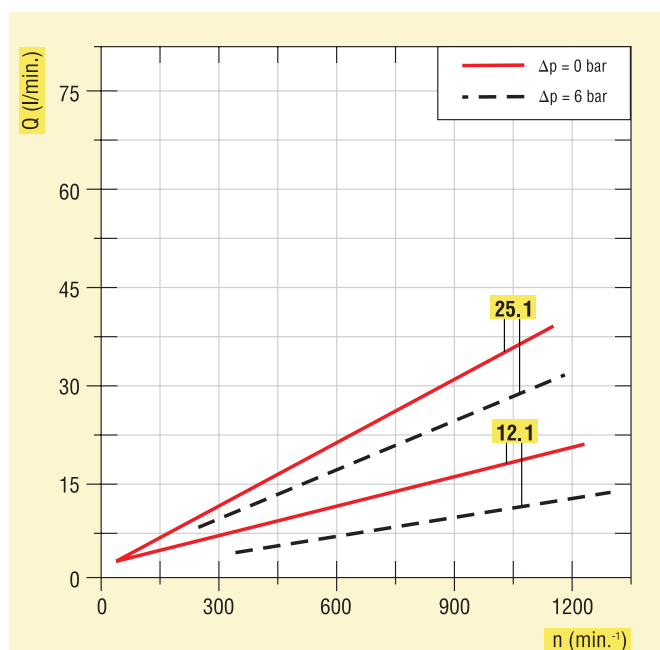


Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Important Information!




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

Viscosity range from aqueous to fluidity range.
Medium table with liquid examples see chemical resistance table.



Lutz Eccentric Screw Pumps

B70V 25.2 and 50.1

Productdetail		Pump tube						B70V	
	Size		25.2	25.2	25.2	50.1	50.1	50.1	
	Seal	Packing gland (St) Mechanical seal (MS)	MS	MS	St	MS	MS	St	
	Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	UJ	TS	UJ	UJ	
	Delivery rate*	up to l/min.	25	25	25	50	50	50	
	Delivery head*	up to bar	10	10	10	8	8	8	
	Temp. of medium**	up to °C	140	140	140	140	140	140	
	Material pump tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	
	Immersion tube diameter	mm	54	54	54	54	54	54	
	Pressure joint ▲	Outer thread	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	
	Weight	kg	7	7	7	7	7	7	
	Length***	mm	1100	1100	1100	1100	1100	1100	
	Stator NBR light (T max. 80 °C)	Order-No.	–	–	–	0172-501	0173-511	0173-501	
	Stator Viton® (T max. 140 °C)	Order-No.	–	–	–	0172-502	0173-512	0173-502	
	Stator PTFE (T max. 140 °C)	Order-No.	0172-254	0173-264	0173-254	0172-504	0173-514	0173-504	
B70V HD-D Stator PTFE (T max. 140 °C)	Order-No.		0173-266			0173-516			
<p>* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator ** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C) *** Special length 500 - 2000 mm on request (version with joint shaft only)</p> <p>Combination of packing gland and torsion shaft on request</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping inflammable liquids of the explosion group IIA (B70V) or IIB (B70V HD-D) and temperature class T4</p>									
Choice of motors									
	Motors with cable terminal box		For B70V - 25.2 and B70V - 50.1						
	Type		0.75 kW, 700 1/min.		1.1 kW, 700 1/min.		1.1 kW, 900 1/min.		
	Protection class/Weight		IP 55 17.3 kg		IP 55 21 kg		IP 55 21.1 kg		
	Order-No.		0172+815		0172+826		0172+818		
	Motors with protection switch		For B70V - 25.2 und B70V - 50.1						
	Type		0.75 kW, 700 1/min.		1.1 kW, 700 1/min.		1.1 kW, 900 1/min.		
	Protection class/Weight		IP 54 17.3 kg		IP 54 21 kg		IP 54 21.1 kg		
	Order-No.		0172+814		0172+825		0172+817		
	Motors, explosion proof		For B70V - 25.2 und B70V - 50.1						
	Type		0.65 kW, 700 1/min.		1.0 kW, 900 1/min.				
Protection class		II 2 G Ex e II T3		II 2 G Ex e II T3					
Protection class/Weight		IP 54 20 kg		IP 54 20 kg					
Order-No.		0172-813		0172-816					
Motors with frequency converter		For B70V - 25.2 and B70V - 50.1							
Type		0,75 kW, 0-900 1/min.		1,1 kW, 0-900 1/min.					
Protection class/Weight		IP 54 15 kg		IP 54 20 kg					
Order-No.		0172-768		0172-767					
	Compressed air motors		For B70V - 25.2 / 50.1						
	Type		8 DA , 1.7 kW, 900 1/min., Weight 14 kg Operating pressure at 6 bar, Air consumption 130 Nm³/h, 102 db (A)						
	Air supply thread		G 1/2						
	Order-No.		0172-823						
Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).									

▲ PURE version Tri-Clamp DN 50

B70V 25.2 and 50.1

for viscosities from 1 - 100,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V 25.2/50.1	B70V HD-D 25.2/50.1	B70V PURE 25.2/50.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)	FPM (Viton®) or EPDM
Mechanical seal:	Carbon/CrMo-casting, Viton®	WC/WC/EPDM	WC/SiC/FKM-FDA or EPDM-FDA
Packing gland:	PTFE Soft packing safe for use with foodstuffs	–	–
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE	PTFE

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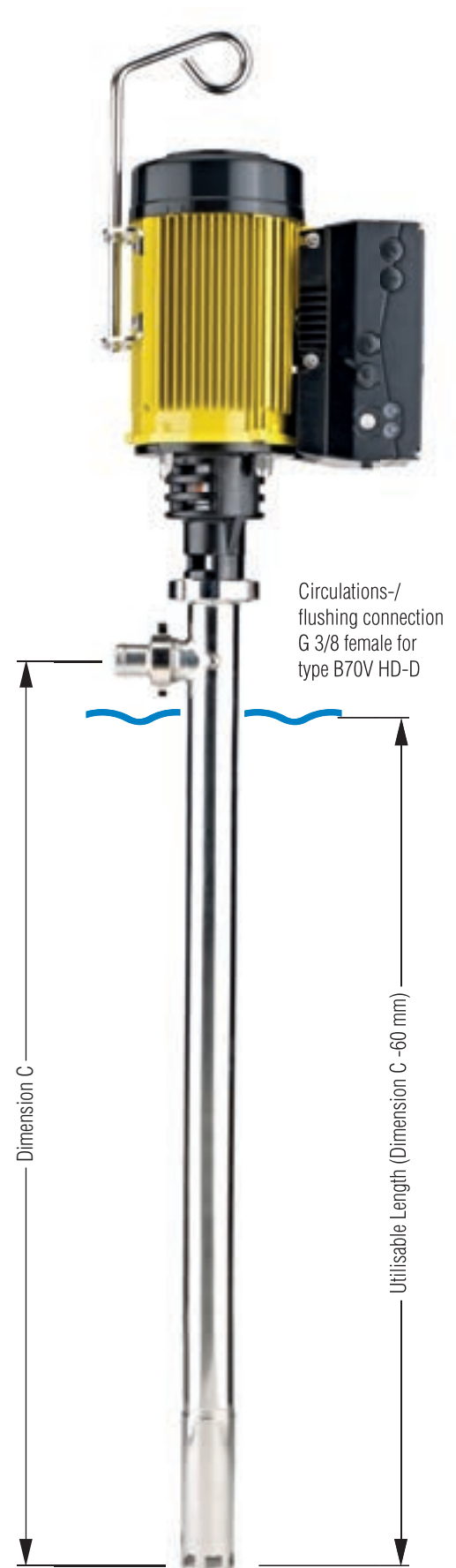
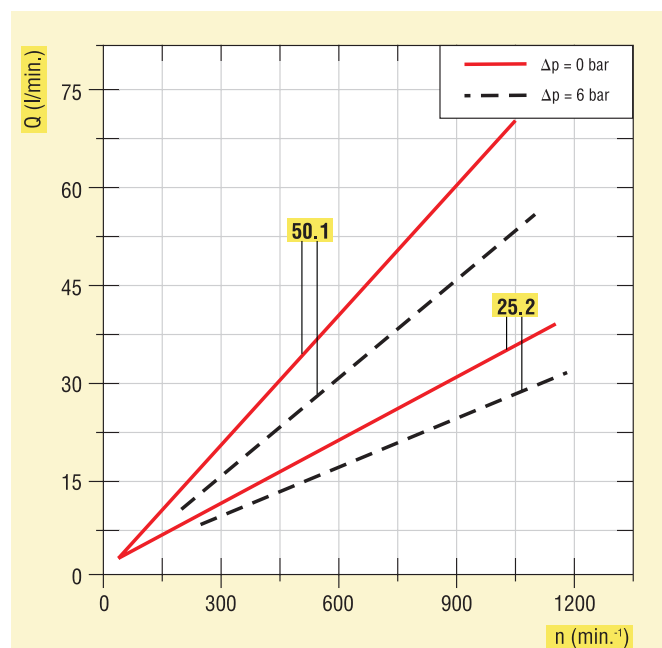


Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Important Information!




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

Viscosity range from aqueous to fluidity range.
Medium table with liquid examples see chemical resistance table.



Lutz Eccentric Screw Pumps

B70V 75.1

Product detail	Pump tube	B70V		
	Size	75.1		
	Seal Mechanical seal (MS)	MS		
	Drive shaft Universal joint shaft (UJ)	UJ		
	Delivery rate*	up to l/min.	75	
	Delivery head*	up to bar	8	
	Temp. of medium**	up to °C	140	
	Material pump tube	1.4571		
	Immersion tube diameter	mm	54	
	Pressure joint ▲	Outer thread	G 1 1/2	
	Weight	kg	7	
	Length***	mm	1100	
	Stator NBR light (T max. 80 °C)	Order-No.	0173-561	
	Stator Viton (T max. 140 °C)	Order-No.	0173-562	
Stator PTFE (T max. 140 °C)	Order-No.	0173-564		
<p>* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator ** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C) *** Special length 500 - 2000 mm on request (version with joint shaft only)</p>				
Choice of motors				
	Motors with cable terminal box		For B70V - 75.1	
	Type	1.1 kW, 700 1/min.	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
	Protection class/Weight	IP 55 21 kg	IP 55 33 kg	IP 55 30 kg
	Order-No.	0172+826	0172-761	0172+829
	Motors with protection switch		For B70V - 75.1	
	Type	1.1 kW, 700 1/min.	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
	Protection class/Weight	IP 54 21 kg	IP 54 33 kg	IP 54 30 kg
	Order-No.	0172+825	0172-760	0172+828
	Motors with frequency converter		For B70V - 75.1	
	Type	1.5 kW, 0-900 1/min.		
Protection class/Weight	IP 54 34 kg			
Order-No.	0172-766			
<p>Three-phase motor 230/400 V, 50 Hz, efficiency level IE 2 (≥ 0.75 kW) according to directive 2005/32/EC. Special voltages, frequencies, protection classes as well as higher explosion proof protection classes on request.</p>				
	Compressed air motors		For B70V - 75.1	
	Type	8 DA , 1.7 kW, 900 1/min., Weight 14 kg		
	Air supply thread	G 1/2		
	Order-No.	0172-823		
<p>Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).</p>				

▲ PURE version Tri-Clamp DN 50

B70V 75.1

for viscosities from 1 - 100,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V 75.1	B70V PURE 75.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®) or EPDM
Mechanical seal:	Carbon/CrMo-casting, Viton®	WC/SiC/FKM-FDA or EPDM-FDA
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE

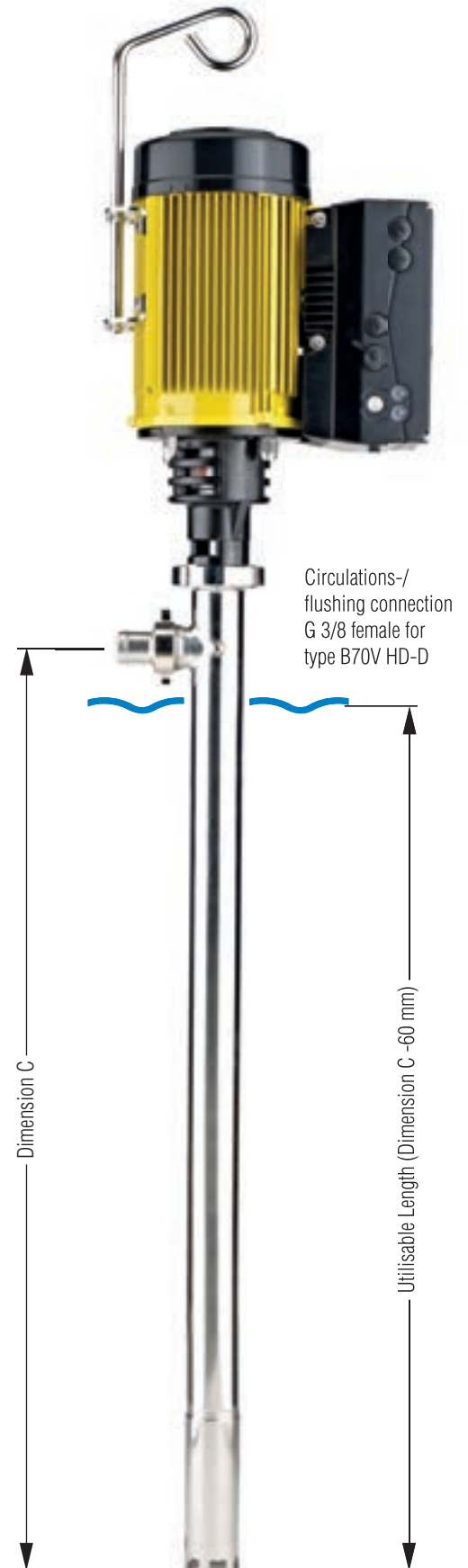
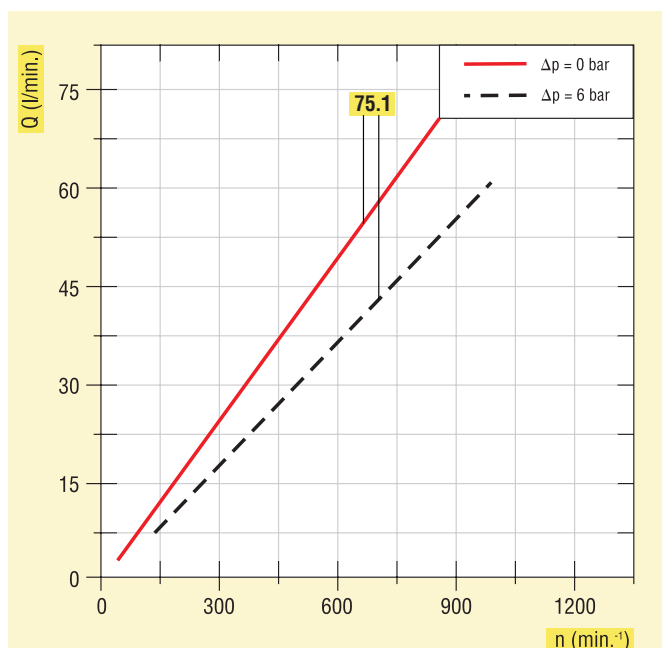
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Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

Important Information!

Viscosity range from aqueous to fluidity range.
Medium table with liquid examples see chemical resistance table.



Lutz Eccentric Screw Pumps

B70V 120.1

Productdetail

Pump tube

B70V



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
Immersion tube diameter*** up to mm		131
Pressure joint		Tri Clamp DN 50 (DIN 32676)
Weight	kg	15
Length****	mm	1100
Stator NBR light (T max. 80 °C)	Order-No.	0175-201
Stator PTFE (T max. 140 °C)	Order-No.	0175-204

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

** with PTFE Stator

*** required bung hole \varnothing 133 mm

**** Special length 500 - 2500 mm on request

Choice of motors

Drive motors

Three-phase motors 230/400 V, 50 Hz, efficiency level IE 2, protection class IP 55 with cable terminal box, protection switch or frequency converter.

Special voltages, frequencies, protection class on request.

Connection dimensions

according to IEC 34 part 7 form B14 type M100



B70V 120.1

for viscosities from 1 - 120,000 mPas

Materials (coming into contact with the pumped medium):

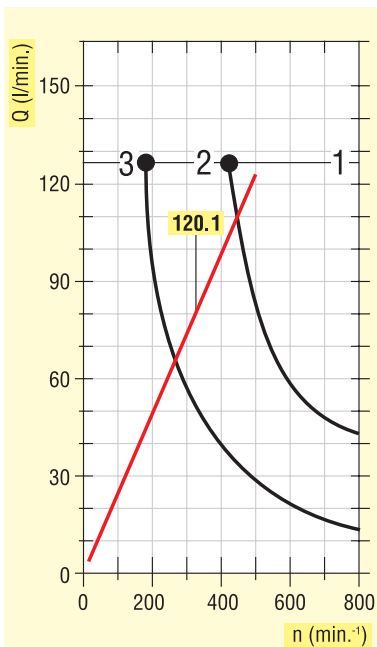
Version:	B70V 120.1	B70V PURE 120.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)
Mechanical seal:*	WC/WC, Viton®	WC/WC, Viton®
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, PTFE	PTFE

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* Mechanical seal pairing on request.



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



Range 1:

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

Range 2:

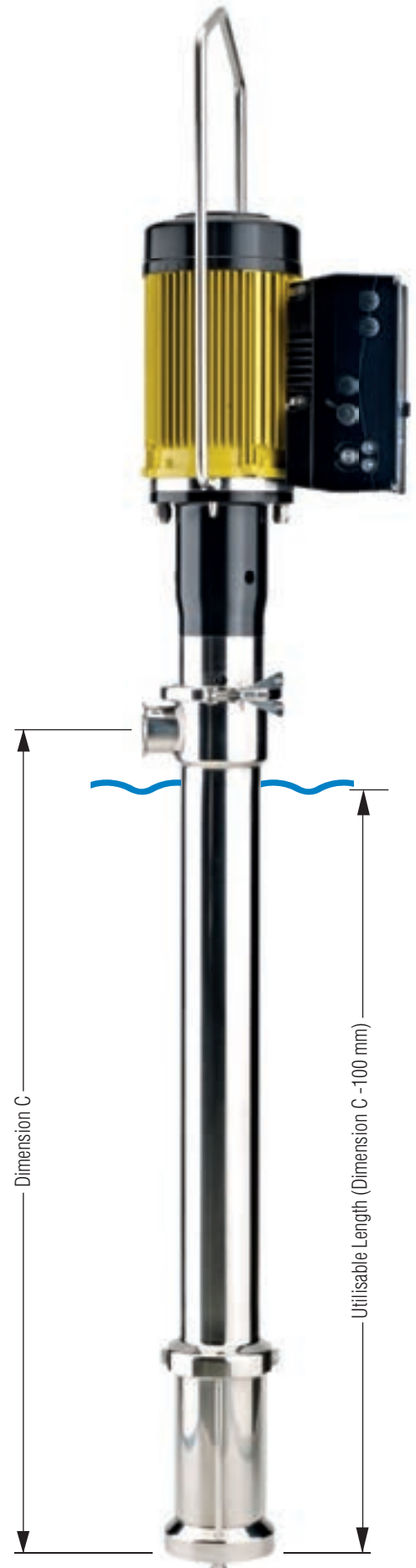
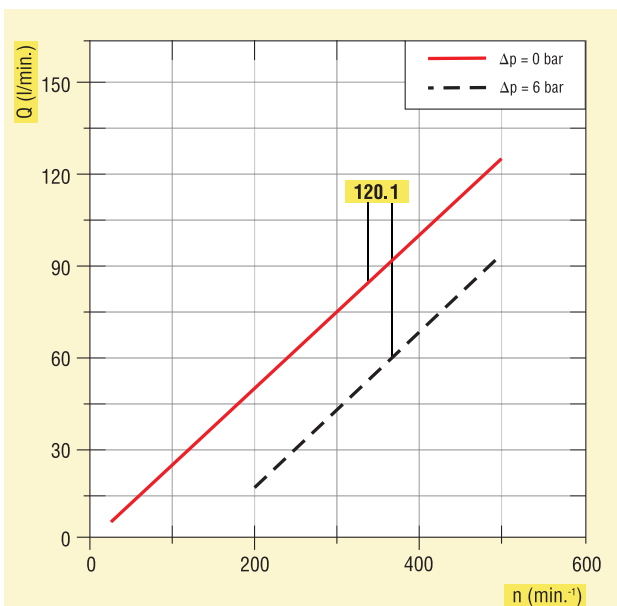
Abrasive and viscous fluids such as pulps, adhesives, paints, inks, etc.
 $\eta < 20,000$ mPas

Range 3:

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


Viscosity range:

Up to limit of flowability



Lutz Eccentric Screw Pumps

B70V-H-SR Sanitary 12.1, 25.1 and 50.1

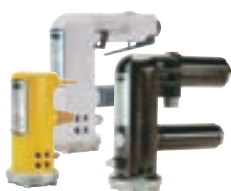
Productdetail		Pump tube				B70V-H-SR Sanitary			
	Size		12.1	25.1	50.1				
	Seal	Mechanical seal (MS)	MS	MS	MS				
	Delivery rate*	up to l/min.	12	25	50				
	Delivery head*	up to bar	6	6	8				
	Temp. of medium	up to °C	100	100	100				
	Material pump tube		1.4404	1.4404	1.4404				
	Immersion tube diameter	mm	54	54	54				
	Pressure joint	Tri-Clamp	DN 50	DN 50	DN 50				
	Weight	kg	7	7	7				
	Length**	mm	1100	1100	1100				
	Stator EPDM	Order-No.	–	–	0174-516				
	Stator PTFE	Order-No.	0174-017	0174-137	0174-517				

* Determined with water at 20 °C, three-phase motor (900 rpm)
 ** Special length 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 class/Weight	IP 24 2.8 kg	IP 24 2.8 kg with speed contr.	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	MD-1	MD-2	MD-3
Type	400 W	400 W	400 W
Operating pressure:	6 bar	6 bar	6 bar
Weight	1.1 kg	1.5 kg	2.1 kg
Order-No.	0004-087	0004-088	0004-090

Different voltages and frequencies on request

B70V-H-SR Sanitary 12.1, 25.1 and 50.1

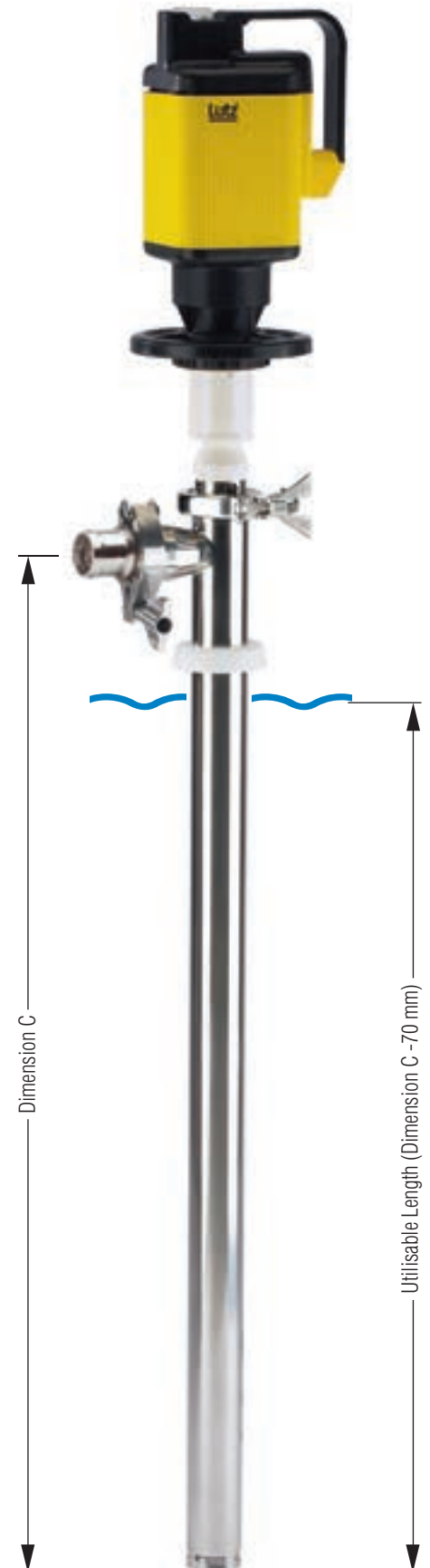
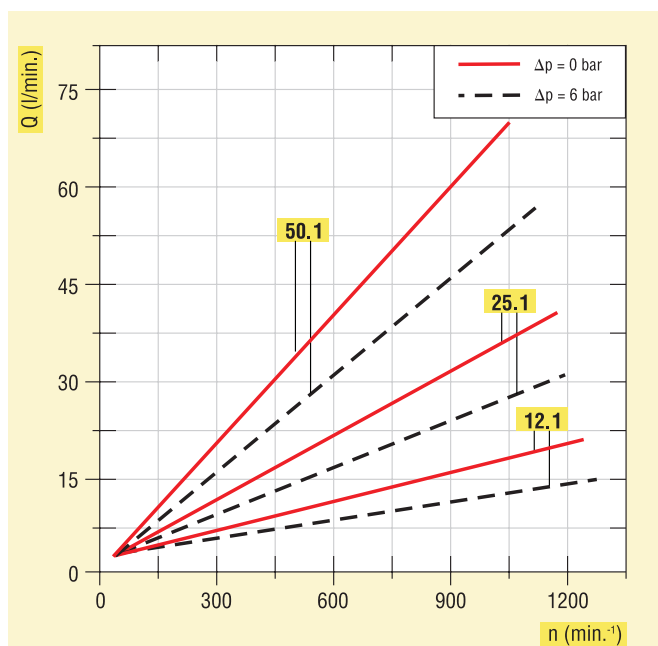
for viscosities up to 30,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V-H-SR Sanitary 12.1/25.1/50.1
Housing:	Stainless steel (1.4404)
Rotor:	Stainless steel (1.4571)
Seals:	EPDM
Mechanical seal:	Carbon/SiC/EPDM (optional SiC/SiC/EPDM)
Drive shaft:	Stainless steel (1.4571)
Stator material:	PTFE, EPDM (Size 50.1)






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Accessories	Order No.
Hose connection DN 38 to Tri-Clamp DN 50	0172-746
Adapter fitting Tri-Clamp DN 50 for thread DIN 11851 Rd 78 x 1/6 (DIN 405)	0172-747
Fastener bracket Tri-Clamp DN 50 (DIN 32676) 1.4401 with seal EPDM	0172-745
Discharge spout Tri-Clamp DN 50	0172-748
Pump foot for drum inliner	0172-771



Lutz Eccentric Screw Pumps

B70V-H-D Sanitary 12.1, 25.1

Product detail		Pump tube				B70V-H-D Sanitary				
	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 pump tube			1.4404				1.4404		
	Immersion tube diameter	mm		54				54		
	Pressure joint	Tri-Clamp		DN 50				DN 50		
	Weight	kg		7				7		
	Length**	mm		1100				1100		
	Stator PTFE	Order-No.	0172-007				0172-127			
	<p>* Determined with water at 20 °C, three-phase motor (900 rpm)</p> <p>** Special length on request</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping inflammable liquids of the explosion group IIA (B70V) and temperature class T4</p>									
<p style="text-align: right;"> </p>										
Choice of motors										
	Motors with protection switch		For B70V-H-D Sanitary - 12.1			For B70V-H-D Sanitary - 25.1				
	Type	0,55 kW, 700 1/min.		0,55 kW, 900 1/min.		0,55 kW, 700 1/min.		0,75 kW, 900 1/min.		
	Protection class/Weight	IP 54 16,5 kg		IP 54 11 kg		IP 54 16,5 kg		IP 55 17 kg		
	Order-No.	0172+808		0172+805		0172+808		0172+811		
	Motors, explosion proof		For B70V-H-D Sanitary - 12.1			For B70V-H-D Sanitary - 25.1				
	Type	0.37 kW, 700 1/min.		0.55 kW, 900 1/min.		0.55 kW, 700 1/min.		0.65 kW, 900 1/min.		
	Protection class	II 2 G Ex e II T3		II 2 G Ex e II T3		II 2 G Ex e II T3		II 2 G Ex e II T3		
	Protection class/Weight	IP 54 16.4 kg		IP 54 17.2 kg		IP 54 18 kg		IP 54 15.3 kg		
	Order-No.	0172-801		0172-804		0172-807		0172-810		
	Motors with frequency converter		For B70V-H-D Sanitary - 12.1			For B70V-H-D Sanitary - 25.1				
Type	0,55 kW, 0-900 1/min.				0,55 kW, 0-900 1/min.		0,75 kW, 0-900 1/min.			
Protection class/Weight	IP 54 13,5 kg				IP 54 13,5 kg		IP 54 15 kg			
Order-No.	0172-769				0172-769		0172-768			
	Compressed air motors		For B70V - 12.1		For B70V - 25.1		For B70V - 25.2 / 50.1			
	Type	4 DA, 0.45 kW, 900 1/min., Weight 5 kg, operating pressure at 6 bar, air consumption 55 Nm³/h,		6 DA, 1.0 kW, 900 1/min., Weight 10 kg, operating pressure at 6 bar, air consumption 80 Nm³/h,		8 DA, 1.7 kW, 900 1/min., Weight 14 kg, operating pressure at 6 bar, air consumption 130 Nm³/h,				
	Air supply thread	87 dB (A) G 3/8		87 dB (A) G 1/2		102 dB (A) G 1/2				
	Order No.	0172-821		0172-822		0172-823				
	Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).									
	Special voltages, frequencies, protection classes on request.									

B70V-H-D Sanitary 12.1, 25.1

for viscosities up to 100,000 mPas

Materials (coming into contact with the pumped medium):

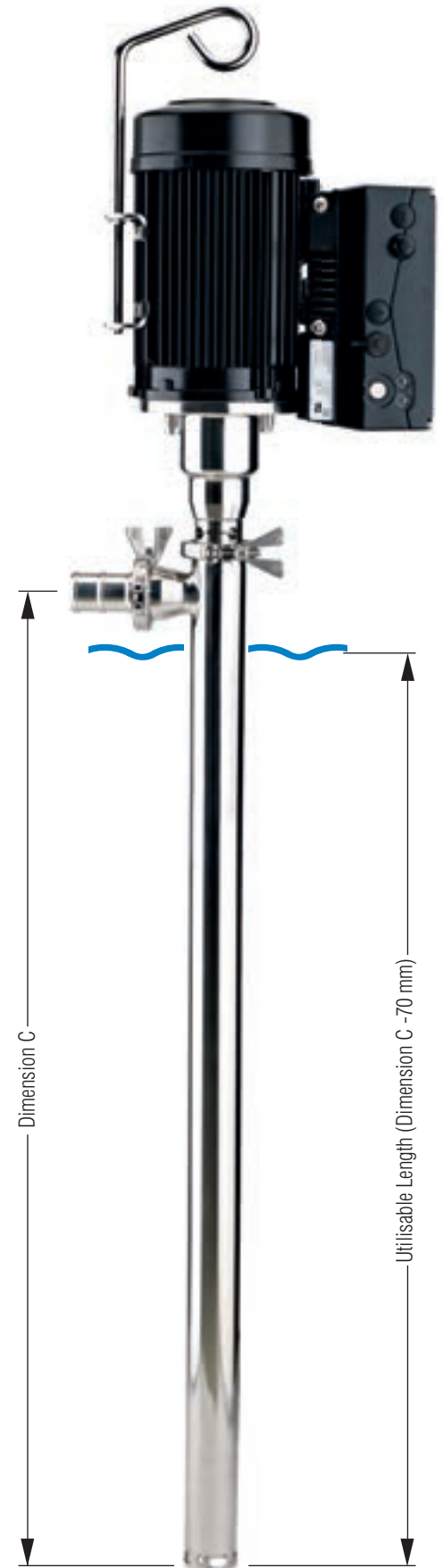
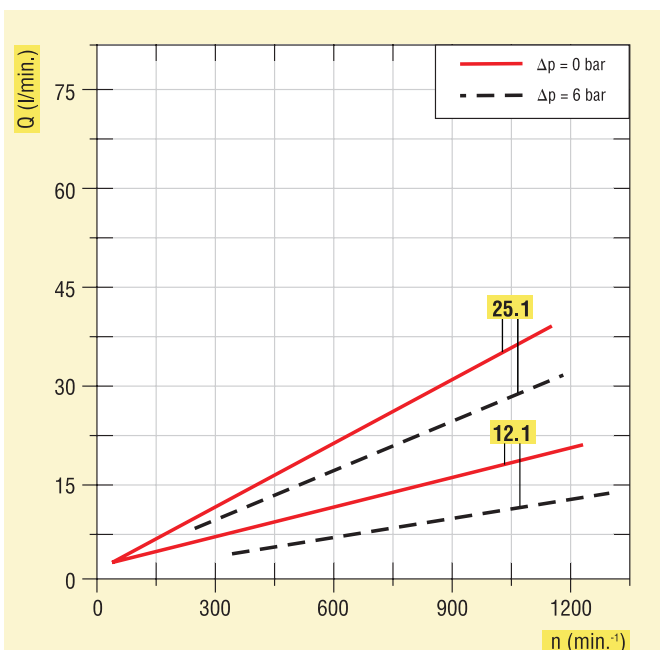
Version:	B70V-H-D Sanitary 12.1/25.1
Housing:	Stainless steel (1.4404)
Rotor:	Stainless steel (1.4571)
Seals:	EPDM
Mechanical seal:	Carbon/SiC/EPDM (optional SiC/SiC/EPDM)
Drive shaft:	Stainless steel (1.4571)
Stator material:	PTFE, EPDM (Size 50.1)

Viton® is a registered trademark of DuPont Performance Elastomers.

Accessories	Order No.
Hose connection DN 38 to Tri-Clamp DN 50	0172-746
Adapter fitting Tri-Clamp DN 50 for thread DIN 11851 Rd 78 x 1/6 (DIN 405)	0172-747
Fastener bracket Tri-Clamp DN 50 (DIN 32676) 1.4401 with seal EPDM	0172-745
Discharge spout Tri-Clamp DN 50	0172-748
Pump foot for drum inliner	0172-771







Equipped with mounting strap and motor quick coupling as standard.



Lutz Eccentric Screw Pumps

B70V-H-D Sanitary 25.2, 50.1, 75.1

Product detail		Pump tube				B70V-H-D Sanitary				
	Size		25.2	50.1	75.1					
	Seal	Mechanical seal (MS)	MS	MS	MS					
	Delivery rate*	up to l/min.	25	50	75					
	Delivery head*	up to bar	10	8	6					
	Temp. of medium	up to °C	100	100	100					
	Material pump 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	7	7	7					
	Length**	mm	1100	1100	1100					
	Stator EPDM	Order-No.	–	0172-506	–					
	Stator PTFE	Order-No.	0172-257	0172-507	0172-557					
	<p>* Determined with water at 20 °C, three-phase motor (900 rpm) ** Special length on request</p> <p>● Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping inflammable liquids of the explosion group IIA (B70V) and temperature class T4</p>									
										
Choice of motors										
	Motors with protection switch		For B70V-H-D Sanitary - 25.2			For B70V-H-D Sanitary - 50.1				
	Type		0,75 kW, 700 1/min.			1,1 kW, 900 1/min.				
	Protection class/Weight		IP 54 17 kg			IP 54 21,5 kg				
	Order-No.		0172+814			0172+817				
	Motors, explosion proof		For B70V-H-D Sanitary - 25.2			For B70V-H-D Sanitary - 50.1				
	Type		0.65 kW, 700 1/min.			1.0 kW, 900 1/min.				
	Protection class		II 2 G Ex e II T3			II 2 G Ex e II T3				
	Protection class/Weight		IP 54 20 kg			IP 54 20 kg				
	Order-No.		0172-813			0172-816				
	Motors with frequency converter		For B70V-H-D Sanitary - 25.2			For B70V-H-D Sanitary - 50.1				
	Type		0,75 kW, 0-900 1/min.		1,1 kW, 0-900 1/min.	1,1 kW, 0-900 1/min.				
	Protection class/Weight		IP 54 15 kg		IP 54 20 kg	IP 54 20 kg				
	Order-No.		0172-768		0172-767	0172-767				
	Motors with cable terminal box		For B70V-H-D Sanitary - 75.1							
Type		1,5 kW, 700 1/min.		1,5 kW, 900 1/min.						
Protection class/Weight		IP 55 33 kg		IP 55 30 kg						
Order-No.		0172-761		0172+829						
Motors with protection switch		For B70V-H-D Sanitary - 75.1								
Type		1,5 kW, 700 1/min.		1,5 kW, 900 1/min.						
Protection class/Weight		IP 54 33 kg		IP 54 30 kg						
Order-No.		0172-760		0172+828						
Motors with frequency converter		For B70V-H-D Sanitary - 75.1								
Type		1.5 kW, 0-900 1/min.								
Protection class/Weight		IP 54 34 kg								
Order-No.		0172-766								
	Compressed air motors		For B70V - 75.1							
	Type		8 DA , 1,7 kW, 900 1/min., Weight 14 kg							
	Air supply thread		Operating pressure at 6 bar, Air consumption 130 Nm ³ /h, 102 db (A)							
	Order-No.		0172-823							
Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).										

B70V-H-D Sanitary 25.2, 50.1, 75.1

for viscosities up to 100,000 mPas

Materials (coming into contact with the pumped medium):

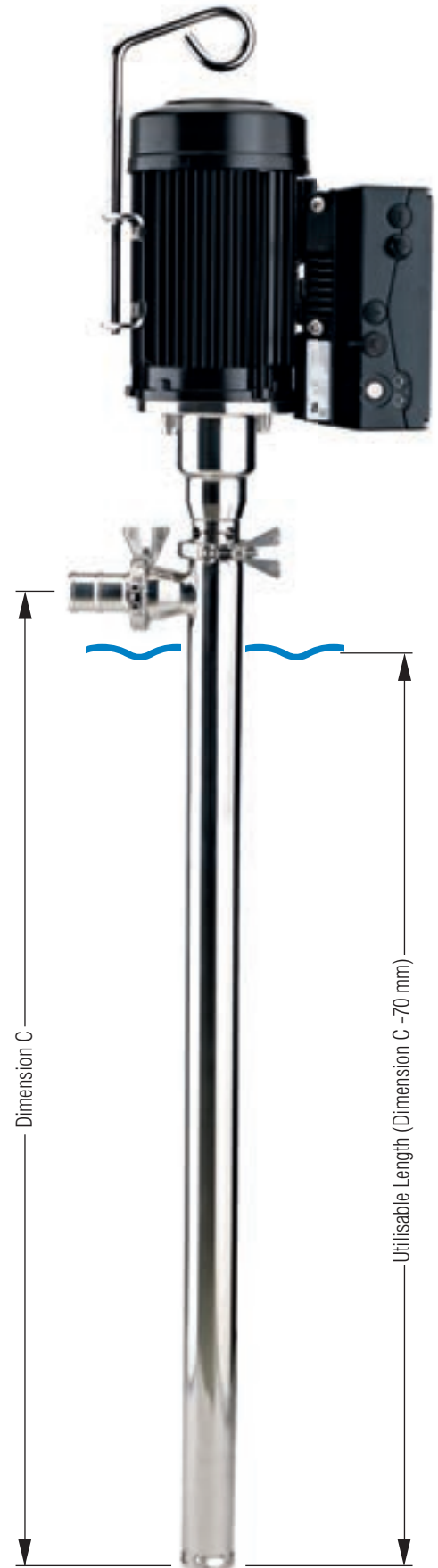
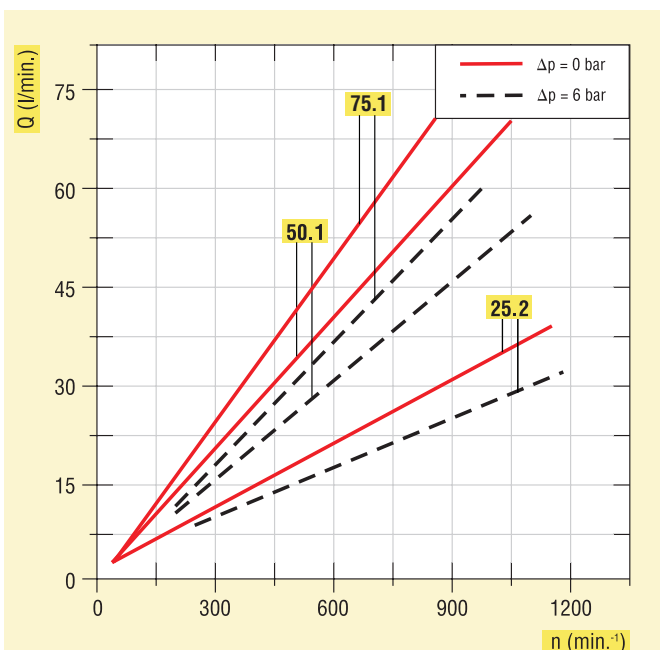
Version:	B70V-H-D Sanitary 25.2/50.1/75.1
Housing:	Stainless steel (1.4404)
Rotor:	Stainless steel (1.4571)
Seals:	EPDM
Mechanical seal:	Carbon/SiC/EPDM (optional SiC/SiC/EPDM)
Drive shaft:	Stainless steel (1.4571)
Stator material:	PTFE, EPDM (Size 50.1)

Viton® is a registered trademark of DuPont Performance Elastomers.

Accessories	Order No.
Hose connection DN 38 to Tri-Clamp DN 50	0172-746
Adapter fitting Tri-Clamp DN 50 for thread DIN 11851 Rd 78 x 1/6 (DIN 405)	0172-747
Fastener bracket Tri-Clamp DN 50 (DIN 32676) 1.4401 with seal EPDM	0172-745
Discharge spout Tri-Clamp DN 50	0172-748
Pump foot for drum inliner	0172-771

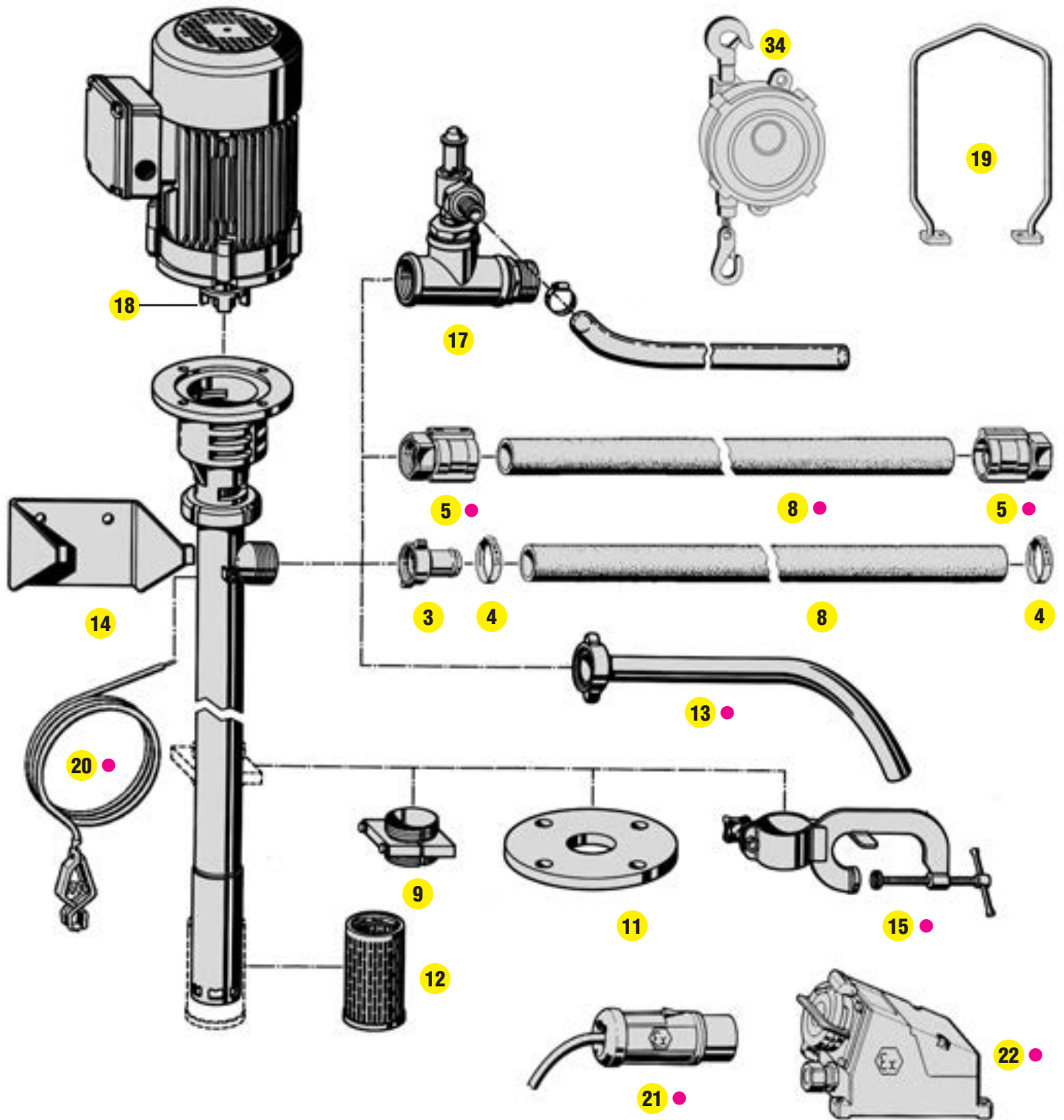


Equipped with mounting strap and motor quick coupling as standard.



Accessories

Accessories at a glance








- 3** Hose connection
- 4** Hose clamp
- 5** ● Hose connector
- 8** ● Hose
- 9** Drum adapter
- 11** Installation flange

- 12** Foot strainer
- 13** ● Discharge spout
- 14** Wall bracket
- 15** ● Clamping device
- 17** Bypass valve
- 18** Coupling part, motor side






- 19** Lifting device
- 20** ● Equipotential bonding cable
- 21** ● Ex-plug
- 22** ● Ex-socket
- 34** Hoist

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

Specification	Order-No.	Product detail
<p>3 Hose connection</p> <p>For connecting the hoses to the pump tube B70V. Connection thread: G 1 1/2</p> <p>Material: Nominal diameter:</p> <p>Stainless steel DN 25 (1")</p> <p>Stainless steel DN 32 (1 1/4")</p> <p>Stainless steel DN 38 (1 1/2")</p> <p>Aluminium DN 32 (1 1/4")</p>	<p>0204-416</p> <p>0204-417</p> <p>0204-418</p> <p>0204-420</p>	
<p>9 Drum adapter St 37</p> <p>Separable drum adapter for pump tubes with enlarged pump foot. For fixing the pump in the drum opening. Prevents the eccentric screw pump falling over in the empty drum. Thread G 2 and M 64 x 4.</p> <p>for pump tube B70V ø 52 mm</p>	<p>0204-169</p>	
<p>11 Installation flange</p> <p>According to DIN 2576 DN 80. PN 10 For fixing the pump B70V to a companion flange. The flange is welded onto the pump tube.</p> <p>in stainless steel (1.4571)</p>	<p>0170-310</p>	
<p>12 Foot strainer</p> <p>Available in stainless steel, for mounting on the pump foot. Keeps impurities away from the rotating parts.</p> <p>in stainless steel (1.4571)</p>	<p>0204-802</p>	
<p>13 Discharge spout</p> <p>Serving to transfer and fill liquids directly into other vessels. They are available in aluminium and stainless steel and are threaded onto the pump outlet connection.</p> <p>Material: Nominal diameter: Wing nut:</p> <p>Alu DN 25 (1") G 1 1/2</p> <p>SS DN 25 (1") G 1 1/2</p>	<p>0204-374</p> <p>0204-226 ●</p>	

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

Accessories

Product detail	Specification	Order-No.
	<p>14 Wall bracket For storage of drum pumps.</p> <p>B70V B70V-SR</p>	<p>0204-309 0204-307</p>
	<p>15 Clamping device To fasten the eccentric screw pump B70V in open-topped and thick-walled drums and containers.</p> <p>in stainless steel</p>	<p>0205-052 ●</p>
	<p>17 Bypass valve When using a closing valve (nozzle, stop valve etc.) the application of a bypass valve is recommended. (Opening pressure: brass 2.5 bar, stainless steel 5 bar).</p> <p>Connection thread: G 1 1/2 Material for pump tube Brass B70V Stainless steel 1.4571) B70V Brass HD-E</p>	<p>0172-640 0170-274 0155-600</p>
	<p>18 Coupling part, motor side When sourcing your own motor please order the correct coupling to suit the relative shaft diameter.</p> <p>Shaft diameter: ∅ 14 mm ∅ 19 mm ∅ 24 mm ∅ 28 mm (only in combination with intermediate flange)</p> <p>Intermediate flange for ∅ 28 mm</p>	<p>0302-028 0302-027 0302-026 0302-029</p> <p>0172-850</p>
	<p>19 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>

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

Specification	Order-No.	Product detail
<p>34 Hoist 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 Tackle: 2 m</p> <p>Load bearing capacity: 22-25 kg Tackle: 2 m</p> <p>Load bearing capacity: 25-30 kg Tackle: 2 m</p>	<p>0371-013</p> <p>0371-014</p> <p>0371-015</p>	
<p>Electronical flow meter, HDO series For metering thin bodied up to highly viscous media – also under high pressures and temperatures. For assembly onto an eccentric screw pump B70V or into a pipeline. Explosion proof flow meter types with Atex approval. For more details see separate leaflet.</p>		
<p>4 Stepless 1-ear hose clamp 1-ear hose clamp of stainless steel for the safe fixing of different hoses onto the hose connection. (Advices for selecting the suitable hose clamp - see hoses).</p> <p>Size: 31.5 - 35.0 mm 32.8 - 36.0 mm 35.8 - 39.0 mm 39.8 - 43.0 mm 42.3 - 45.5 mm 43.8 - 47.0 mm 49.8 - 53.0 mm 60.3 - 63.5 mm 64.8 - 68.0 mm</p>	<p>0300-435</p> <p>0300-440</p> <p>0300-445</p> <p>0300-450</p> <p>0300-455</p> <p>0300-460</p> <p>0300-465</p> <p>0300-470</p> <p>0300-475</p>	
<p>5 Hose connector The use of conductive hoses is obligatory in explosion hazard areas. The ohmic resistance between the armatures must be less than 10⁶ ohm. The hose connection must ensure a highly conductive transition between hose and pump tube.</p> <p>Brass for hose DN 32 (1 1/4") inner thread G 1 1/2 (EN 12 115) for hose DN 38 (1 1/2") inner thread G 1 1/2 (EN 12 115) for hose DN 50 (2") inner thread G 2 (EN 12 115)</p> <p>Stainless steel (1.4571) for hose DN 32 (1 1/4") inner thread G 1 1/2 (EN 12 115) for hose DN 38 (1 1/2") inner thread G 1 1/2 (EN 12 115) for hose DN 50 (2") inner thread G 2 (EN 12 115)</p>	<p>0302-090 ●</p> <p>0302-091 ●</p> <p>5000-100 ●</p> <p>0302-096 ●</p> <p>0302-092 ●</p> <p>5000-101 ●</p>	

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

Product detail

Specification

Order-No.



8 PVC-spiral hose

PVC hose, with steel helix for aggressive, non-flammable liquids.

Operating pressure:	max. 10 bar	
Temperature of medium:	-15 up to +65 °C	
Nominal diameter:	Weight:	Suitable hose clamp:
DN 25 (1")	0.52 kg/m	0300-435

0374-440



8 PVC hose, fabric reinforced

PVC hose for aggressive, non-flammable liquids.

Operating pressure:	max. 6 bar	
Temperature of medium:	0 up to +60 °C	
Nominal diameter:	Weight:	Suitable hose clamp:
DN 32 (1 1/4")	0.5 kg/m	0300-450
DN 38 (1 1/2")	0.6 kg/m	0300-460

0374-425

0374-431



8 Electrically conductive hoses

Caution: Electrical conductivity is assured through the assigned materials and their composition. If correctly installed, resistance during the entire life of the hoses will remain with type Ω smaller 10^6 ohm and with type Ω smaller 10^2 ohm (to EN 12115).

Mineral oil hose

Colour coding: "yellow".

Hose for mineral oil products of all kinds up to 50 % aromatics and methanol content.

Inner rubber NBR (antistatic) and outer rubber chloroprene (CR).

Type Ω smaller 10^6 ohm (to EN 12115)

Operating pressure:	max. 10 bar	
Temperature of medium:	-35 up to +60 °C	
Nominal diameter:	Weight:	Suitable hose clamp:
DN 32 (1 1/4")	1.0 kg/m	0300-455
DN 38 (1 1/2")	1.2 kg/m	0300-465

0374-413 ●

0374-414 ●

Hose for mineral oil products of all kinds up to 50 % aromatics and methanol content.

Inner rubber NBR (antistatic) and outer rubber NBR.

Type Ω smaller 10^6 ohm (to EN 12115)

Operating pressure:	max. 10 bar	
Temperature of medium:	-30 up to +65 °C	
Nominal diameter:	Weight:	Suitable hose clamp:
DN 25 (1")	0.8 kg/m	0300-440

0374-462 ●



8 Solvent hose

Colour coding: "blue".

Hose suitable for a wide range of commercial solvents.

Inner rubber of special coating (not conductive) and outer rubber of chloroprene (CR).

Type Ω smaller 10^6 ohm (to EN 12115)

Operating pressure:	max. 10 bar	
Temperature of medium:	-35 up to +60 °C	
Nominal diameter:	Weight:	Suitable hose clamp:
DN 25 (1")	0.8 kg/m	0300-445
DN 32 (1 1/4")	1.2 kg/m	0300-455
DN 38 (1 1/2")	1.5 kg/m	0300-465

0374-417 ●

0374-418 ●

0374-450 ●

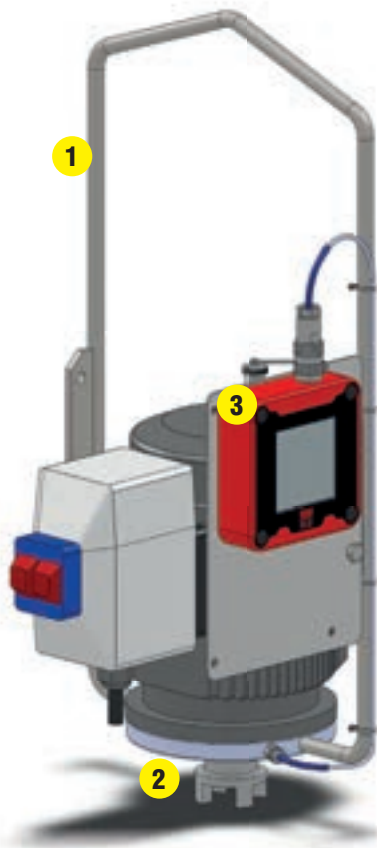
● Suitable for transferring combustible and easy inflammable liquids (e.g. ethanol, petrol) or in explosive hazard area.

Specification	Order-No.	Product detail																
<p>8 Universal chemical hose</p> <p>Colour coding: "blue/white/blue". Suitable for 95% of all customary industrial chemicals such as almost all acids and alkalis, mineral oil products and solvents of all kinds. Internal finish: Smooth special lining of ultra high molecular polyethylene (U-PE) and white intermediate safety layer. External finish: Electrically conductive EPDM. Intermediate layers: Textile mesh in tinned copper fibres and tin-plated steel wire filament. If correctly installed, resistance during the entire life of the hose will remain under 10^6 ohm. Type Ω smaller 10^6 Ohm (to EN 12115).</p> <p>Operating pressure: up to 10 bar Temperature of medium: -30 up to +100 °C Nominal diameter: Weight: Suitable hose clamp:</p> <table border="0"> <tr> <td>DN 25 (1")</td> <td>0.9 kg/m</td> <td>0300-445</td> <td>0374-419 ●</td> </tr> <tr> <td>DN 32 (1 1/4")</td> <td>1.2 kg/m</td> <td>0300-455</td> <td>0374-421 ●</td> </tr> <tr> <td>DN 38 (1 1/2")</td> <td>1.5 kg/m</td> <td>0300-465</td> <td>0374-453 ●</td> </tr> </table>	DN 25 (1")	0.9 kg/m	0300-445	0374-419 ●	DN 32 (1 1/4")	1.2 kg/m	0300-455	0374-421 ●	DN 38 (1 1/2")	1.5 kg/m	0300-465	0374-453 ●						
DN 25 (1")	0.9 kg/m	0300-445	0374-419 ●															
DN 32 (1 1/4")	1.2 kg/m	0300-455	0374-421 ●															
DN 38 (1 1/2")	1.5 kg/m	0300-465	0374-453 ●															
<p>8 Special chemical hose</p> <p>Colour coding: „blau/white/red“. Suitable for all commonly used chemicals, ideal also for very pure media. Internal finish: Teflon® FEP transparent, smooth, seamless, non-leaching, non-dyeing (in conformity with FDA and USP Class VI demands). Intermed. layer: EPDM conductive. External finish: EPDM electrically conductive with OHM conductive stripes. Type Ω smaller than 10^6 Ohm (to EN 12115)</p> <p>Operating pressure: up to 16 bar Temperature of medium: -30 up to +100 °C Nominal diameter: Weight: Suitable hose clamp:</p> <table border="0"> <tr> <td>DN 25 (1")</td> <td>0.9 kg/m</td> <td>0300-445</td> <td>0374-429 ●</td> </tr> <tr> <td>DN 32 (1 1/4")</td> <td>1.1 kg/m</td> <td>0300-455</td> <td>0374-430 ●</td> </tr> <tr> <td>DN 38 (1 1/2")</td> <td>1.5 kg/m</td> <td>0300-465</td> <td>0374-455 ●</td> </tr> <tr> <td>DN 50 (2")</td> <td>2.3 kg/m</td> <td>0300-475</td> <td>0374-456 ●</td> </tr> </table>	DN 25 (1")	0.9 kg/m	0300-445	0374-429 ●	DN 32 (1 1/4")	1.1 kg/m	0300-455	0374-430 ●	DN 38 (1 1/2")	1.5 kg/m	0300-465	0374-455 ●	DN 50 (2")	2.3 kg/m	0300-475	0374-456 ●		
DN 25 (1")	0.9 kg/m	0300-445	0374-429 ●															
DN 32 (1 1/4")	1.1 kg/m	0300-455	0374-430 ●															
DN 38 (1 1/2")	1.5 kg/m	0300-465	0374-455 ●															
DN 50 (2")	2.3 kg/m	0300-475	0374-456 ●															
<p>8 Food hose</p> <p>Color coding: "white". Materials according to FDA regulations, electrically not conductive. Suitable for all food products, milk, dairy products and fatty foodstuffs. Internal finish: White special rubber, flavourless and odourless. External finish: Synthetic caoutchouc, blue, abrasion- and ageing-resistant.</p> <p>Operating pressure: up to 16 bar Temperature of medium: -20 up to +90 °C Nominal diameter: Weight: Suitable hose clamp:</p> <table border="0"> <tr> <td>DN 25 (1")</td> <td>0.8 kg/m</td> <td>0300-445</td> <td>0374-463</td> </tr> <tr> <td>DN 32 (1 1/4")</td> <td>0.9 kg/m</td> <td>0300-455</td> <td>0374-464</td> </tr> <tr> <td>DN 38 (1 1/2")</td> <td>1.3 kg/m</td> <td>0300-465</td> <td>0374-465</td> </tr> </table>	DN 25 (1")	0.8 kg/m	0300-445	0374-463	DN 32 (1 1/4")	0.9 kg/m	0300-455	0374-464	DN 38 (1 1/2")	1.3 kg/m	0300-465	0374-465						
DN 25 (1")	0.8 kg/m	0300-445	0374-463															
DN 32 (1 1/4")	0.9 kg/m	0300-455	0374-464															
DN 38 (1 1/2")	1.3 kg/m	0300-465	0374-465															

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








Accessories

Contact-free indirect measurement



Product detail	Specification	Order-No.																		
	<p>1 Lifting device with integrated impulse sensor Comprises of:</p> <p>Impulse sensor with connecting cable and 14-wire coupling plug, lifting device and flange plate. (Please order suitable impulse transmitter and control unit additionally)</p> <p>Additional price* for single phase motors up to 1.1 kW</p> <p>Additional price* for single phase motors up to 1.5 kW and explosion proof single phase motors Ex Complete set for retrofitting available pumps</p> <p><small>*(Please indicate Ref. No. for additional price when ordering a pump)</small></p>	<p>0172-891</p> <p>0172-892 ●</p> <p>0172-890 ●</p>																		
	<p>2 Impulse transmitter Must be ordered additionally suitable for the shaft diameter of the motor</p> <p>For shaft diameters:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;"></td> <td style="text-align: right;">Ø 19 mm</td> <td style="text-align: right;">0172-824</td> </tr> <tr> <td></td> <td style="text-align: right;">Ø 20 mm</td> <td style="text-align: right;">0172-825</td> </tr> <tr> <td></td> <td style="text-align: right;">Ø 24 mm</td> <td style="text-align: right;">0172-826</td> </tr> <tr> <td></td> <td style="text-align: right;">Ø 25 mm</td> <td style="text-align: right;">0172-827</td> </tr> <tr> <td></td> <td style="text-align: right;">Ø 28 mm</td> <td style="text-align: right;">0172-828</td> </tr> <tr> <td></td> <td style="text-align: right;">Ø 30 mm</td> <td style="text-align: right;">0172-829</td> </tr> </table>		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	
	Ø 19 mm	0172-824																		
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	Ø 25 mm	0172-827																		
	Ø 28 mm	0172-828																		
	Ø 30 mm	0172-829																		

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

Specification	Order-No.	Product detail
<p>3 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] IIC</p>	<p>0230-000 0230-010 ●</p> <p>0230-230</p>	
Accessories optional		
<p>Relay module RM30 For single phase motors up to 1.5 kW allows the filling with pre-selection (batch function), 400 V, 1.5 kW, 50 Hz, II (2) G [Ex ib] IIC</p>	0230-220	
<p>Power cable RM30 400V 400 V, 50 Hz, 5-wire, 5 m long</p> <p style="text-align: right;">For RM30</p>	0211-388	
<p>Connecting cable motor RM30 400V 400 V, 50 Hz, 5-wire, 0.6 m long</p> <p style="text-align: right;">For RM30</p>	0211-386	
<p>Relay module RM10 For single phase motors with frequency converter allows the filling with pre-selection (batch function), 220-240 V, 50-60 Hz, II (2) G [Ex ib] IIC</p>	0230-200	
<p>Power cable RM10 230V 230 V, 50 Hz, 5 m long</p> <p style="text-align: right;">For RM10</p>	0211-155	
<p>Adapter cable motor RM-FU 230V/24V For single phase motors with frequency converter 230V AC/24V DC</p> <p style="text-align: right;">For RM10</p>	0230-232	

** Limited battery operation without power supply unit possible

Twice the **COMPETENCE...**



Professional Fluid Management

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Flow meter systems

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Lutz Pumpen GmbH

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A Measured Step Forward

Dosing pumps and accessories

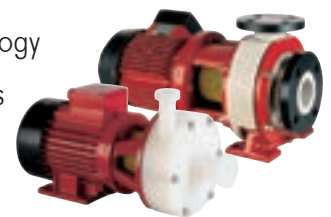
Chlorinators

Measuring and control technology

System and process technology

Chemical centrifugal pumps

Water disinfection



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