



Lutz eccentric screw pumps

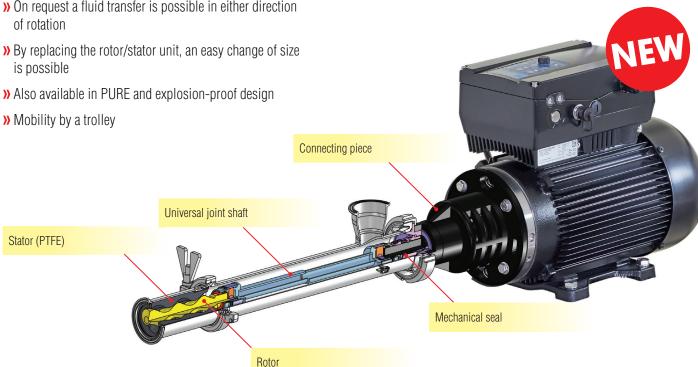
B70H Series

The H stands for horizontal!

The B70H is a variation of our B70V and is designed for the horizontal use on a trolley. It can be used in situations where the B70V comes across space limits or limits of handling and thus completes our range of eccentric screw pumps with a mobile version.

Features/Benefits

- » By positioning outside of the container, it is possible to pump liquid out of the stacked containers - or containers which are not accessible from the top
- >> Due to the compact construction height, emptying at limited room height is possible
- » Easy handling of heavy pumps
- » No physical strain due to lifting
- >> Easy replacement of wearing parts by the new rotor/stator combination
- >> On request a fluid transfer is possible in either direction











Optional with stainless steel trolley with normal or conductive wheels. In conjunction with a flow meter and operating unit, a mobile filling station is created.

For mobile and stationary application

Easy change of size

- Changing between different stator materials is possible with the same stator sleeve.
- A conversion from 25.1 to 75.1 is possible by replacing the stator sleeve.
- The pump tube and shaft are always the same length and compatible with each rotor/stator unit.
- By replacing stator, rotor and stator sleeve, a conversion to any rotor/stator combination is possible.

Liquid examples

Lutz horizontal eccentric screw pumps are suitable for pumping aqueous to highly viscous Newtonian and non-Newtonian media. The pumps are suitable for abrasive, solids containing and shear sensitive media, as well as for neutral, aggressive and easy flammable liquids under high delivery pressure.



Lutz eccentric screw pumps

B70H 25.1 and 75.1

Productdetail	Pump tube			B70H		
	Size			25.1	75.1	
	Seal	Mechanical seal	(MS)	MS	MS	
	Drive shaft	Universal joint shaft	(UJ)	UJ	UJ	
	Flow rate*		up to I/min.	25	75	
	Delivery head	 *	up to bar	8	8	
	Temperature	of medium**	max. °C	140	140	
	Material oute	Material outer tube		1.4571/1.4404	1.4571/1.4404	
	Pressure join	t	Tri-Clamp	DN 50	DN 50	
	Weight		kg	5.5	6.5	
	Length		mm	400	500	
	Stator PTFE (T max. 140 °C)		Order no.	0176-401	0176-404	
	* Determined with water at 20 °C, three-phase motor (900 1/min) and elastomer stator					
	** With states	** With ctary DTEE (for explosion, proof eccentric screw number R70H				

Motor selection

- ** With stator PTFE (for explosion-proof eccentric screw pumps B70H, the temperature of the pumped medium must not exceed 100 °C)
- Explosion-proof eccentric screw pump approved category 1 / 2 (according to ATEX) for pumping flammable liquids of the explosion group IIA (B70V-SR) or IIB (B70V HD-SR) and temperature class T4

Please note: Mechanical seal which is independent from rotating direction on request



Motors with cable terminal box	For B70H - 25.1 and B70H - 75.1			
Version	1,1 kW, 900 1/min.	1,5 kW, 900 1/min.		
Protection type/weight	IP 55 32 kg	IP 55 32 kg		
Order No.	0176-801	0176-803		
Motors with protection switch	For B70H - 25.1 and l	B70H - 75.1		
Version	1,1 kW, 900 1/min.			
Protection type/weight	IP 54 32 kg			
Order No.	0176-802			
Motor, explosion-proof	For B70H - 25.1 and l	B70H - 75.1		
Version	0,95 kW, 900 1/min.			
Marking	II 2 G Ex e II T3			
Protection type/weight	IP 55 22 kg			
Order No.	0176-805			
Motors with frequency converter	For B70H - 25.1 and I	B70H - 75.1		
Version	1,1 kW, 0-900 1/min.			
Protection type/weight	IP 55 35 kg			
Order No.	0176-804			
Three-phase 230/400 V. 50 Hz. energy efficiency category IE 3 in accordance with EU Regula-				

Three-phase 230/400 V, 50 Hz, energy efficiency category IE 3 in accordance with EU Regulations 640/2009 and 04/2014. Special tension, frequency, protection types as well as increased ex-protection classes on request.

For viscosities of 100.000 mPas

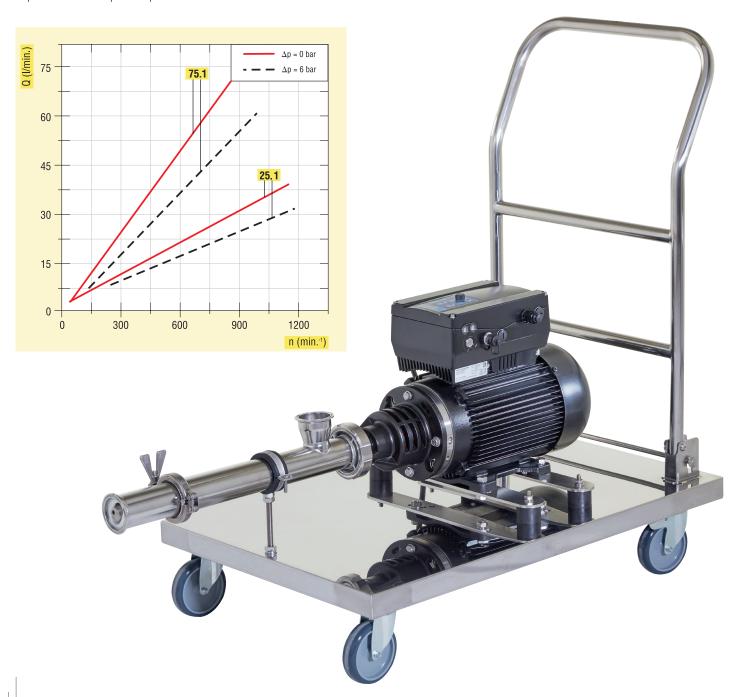
Materials (coming into contact with the pumped medium):						
Version:	B70H 25.1	B70H 75.1				
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)				
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)				
Seals:	FPM	FPM				
Mechanical seal*:	Carbon/CrMo-casting, FPM	Carbon/CrMo-casting, FPM				
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)				
Stator materials:	PTFE	PTFE				



Pump tube with stator in PTFE is also available in PURE version. Special application in the food and cosmetics industry as well as in the pharmaceutics.

Important info

Range of viscosity aqueous up to flowability limit. Liquid table with examples of liquids see resistance table.



^{*} Other mechanical seals on request

Productdetail

Specification

Order No.



Trolley for horizontal eccentric screw pump B70H

For mobile use of B70. With fixing material to assemble the motor.

Material: Stainless steel (1.4571)
Dimensions trolley 820 x 520 x 940 mm

Trolley 0208-194

Trolley with electrically conductive wheels

0208-195

PVC spiral hose, fabric reinforced

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.



Operating pressure: max. 14 bar
Temperature of liquid: -5 up to +65 °C
Nominal diameter: Weight:
DN 32 (1 1/4") 0.80 kg/m

 DN 32 (1 1/4")
 0.80 kg/m
 0374-468

 DN 38 (1 1/2")
 1.15 kg/m
 0374-469

 DN 50 (2")
 1.60 kg/m
 0374-470



Universal chemical hose

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.

Operating pressure: max. 16 bar

Temperature of liquid: -30 up to +100 °C (dependant on the liquid),

can be sterilized at 130°C for 30 minutes (open system)

Nominal diameter: Weight: 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

0374-477

0374-478

0374-479

Suitabe for transferring flammable and easy flammable liquids (e.g. Ethanol, petrol) or in explosive hazard area.

Specification Order No. Product detail

Hose clips

Stainless steel hose clips with threaded screw for fixing hoses of various nominal bore at the hose connection.

Nominal diameter:

(Item 6) are required.



Hose connection with Tri-clamp

For connecting the hose to the eccentric screw pump B70, discharge spout or Tri-Clamp armatures (comprising a hose connection, locking clamp and seal)

Material: Stainless steel (1.4404)

 Connection:
 for hose nominal diameter:
 Seal:

 Tri-Clamp DN 32**
 DN 38 (1 1/2")
 FPM
 0204-877

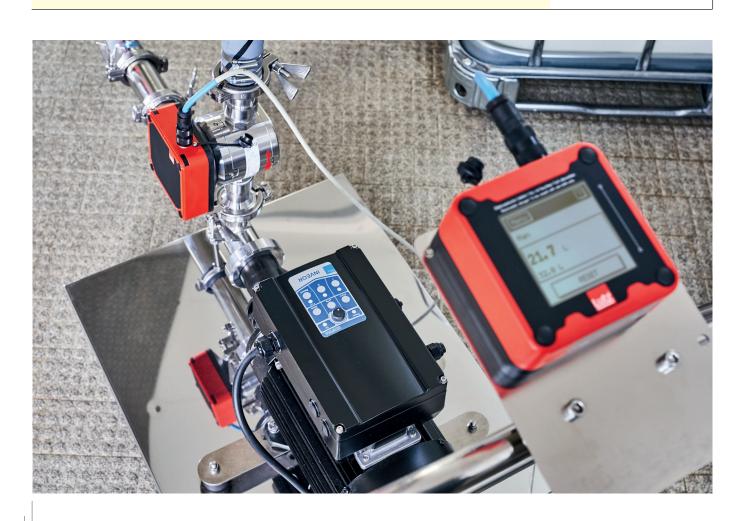
 Tri-Clamp DN 50
 DN 38 (1 1/2")
 FPM
 0204-878

 Tri-Clamp DN 50
 DN 50 (2")
 FPM
 0204-880



Please note:

The assembler is responsible for the professional fixing of the hose according to the current Pressure Equipment Directive.



^{**} For use on eccentric screw pumps B70 an additional reducing piece DN 50 to DN 25/32/40 (Item 5) and a locking clamp





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