



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	k	up to bar	8	8
	Temperature o	f medium**	max. °C	140	140
	Material outer tube			1.4571/1.4404	1.4571/1.4404
	Pressure joint		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				

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 2 (according to ATEX) for pumping flammable liquids of the explosion group IIA and IIB. Temperature class T4 at 40°C ambient temperature or temperature class T3 at 60°C ambient temperature. 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 0176-801 0176-803 Order No. **Motors with protection switch** For B70H - 25.1 and B70H - 75.1 1,1 kW, 900 1/min. Protection type/weight IP 54 32 kg Order No. For B70H - 25.1 and B70H - 75.1 Motor, explosion-proof 0,95 kW, 900 1/min. Version Marking II 2 G Ex e II T3 IP 55 22 kg Protection type/weight For B70H - 25.1 and B70H - 75.1 **Motors with frequency converter** 1,5 kW, 0-900 1/min. Version Protection type/weight IP 55 35 kg 0176-804

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

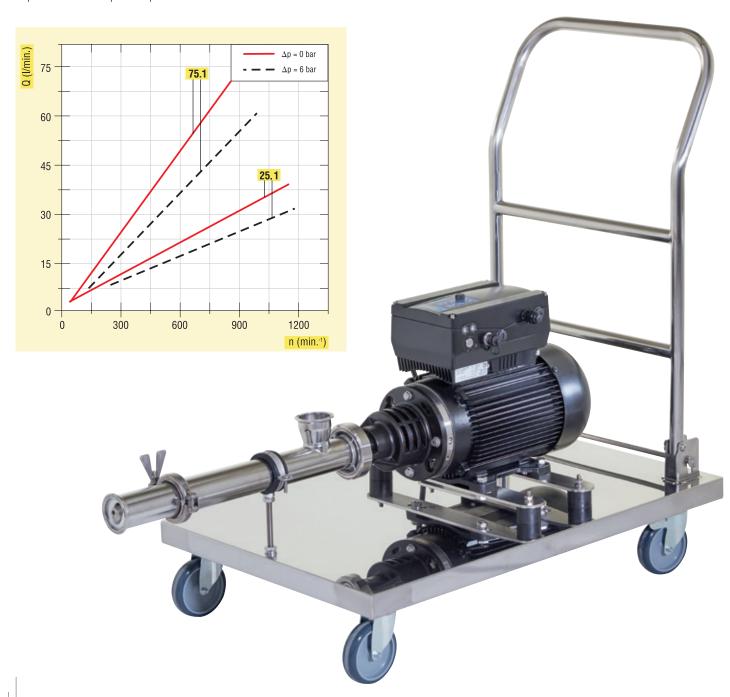
Materials (coming into contact with the pumped medium):					
Version:	B70H 25.1	B70H 75.1			
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)			
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)			
Seals:	FPM	FPM			
Mechanical seal*:	Carbon/CrMo-casting, FPM	Carbon/CrMo-casting,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

Hose clips

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

Nominal diameter:

DN 25 (1") DN 32 - 38 (1 1/4" - 1 1/2")

DN 50 (2")

0301-401

0302-402 0302-403

0204-878

0204-880

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



Please note:

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







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