Lutz® The Fluid Managers

Jesco®

New Lutz Battery Pumps

B1 Battery, B2 Battery

Lightweight, comfortable and powerful

NEW

Safety is our concern

New dimensions of flexibility

With the development of the new battery pumps B1 Battery and B2 Battery, Lutz launches a new dimension of mobility, battery performance, weight, life, capacity and ergonomics and offers maximum flexibility for the user. With the combination possibilities of the pump tubes in PP, PVDF and stainless steel in different lengths, a variety of fluids from different containers can be transferred.

Features/Benefits:

- BLDC motor with a high level of efficiency up to 70%
- Infinitely varied
- Modular construction
- Low weight
- High battery capacity
- Long service life
- Low noise ≤ 70 dBA
- Sophisticated quick-action coupling
- Available in **polypropylene, polyvinylidene fluoride** and **stainless steel** (1.4571)

Up to **2500** Litres with one battery charge!

Mobile pump unit on trolley

For flexible use, the pump and the drum can be easily and quickly brought to any location by the trolley (Order No. 0371-030).

B1 Battery:

Battery life: 25 minutes at max. speed

1 Battery charge = 2 x 200 l Container*

* determined with pump tube PP 25-L SL

B2 Battery:

Battery life: 34 minutes at max. speed

1 Battery charge = 12,6 x 200 l Container*

* determined with pump tube PP 32-R SL

Lutz Drum Pump B1/B2 Battery

B1 Battery:

- Small to medium filling quantities
- Low power
- Low viscosity up to max. 200 mPas
- Low pressures/low flow rates
- Low density up to max. 1.3 kg/dm^3
- Automatic switch-off at overload

Replaceable battery with Li-Ion technology

Infinitely variable for all demands

Good handling due to compact design and low weight

Wear-free, low noise BLDC motor

Easy disassembly with quick fastener

B2 Battery:

- Medium to large filling volume
- Particularly high performance at a low weight
- Higher viscosity up to max. 400 mPas
- Higher pressures/flow rates
- Higher density up to max. 1.6 kg/dm^3
- Higher battery life
- Automatic switch-off at overload

Replaceable, high-performance Li-Ion technology

Infinitely variable for all demands

Easy handling by using a convenient carrying handle, compact design and low weight

Wear-free, low noise BLDC motor: Particularly high performance at low weight

Easy disassembly with quick fastener

Lutz Pump Sets

Pump Set B1/ B2 Battery

Lutz pump sets save time and money. The annoying search for the right pump and accessories has come to an end. Lutz is offering a choice of different pump sets. Optionally, the pumps can be combined with a flow meter. Lutz has optimal solutions for almost all applications.

Our pump sets consist of:

» Motor B1/B2 Battery

» With or without flow meter TR3

» Pump tube

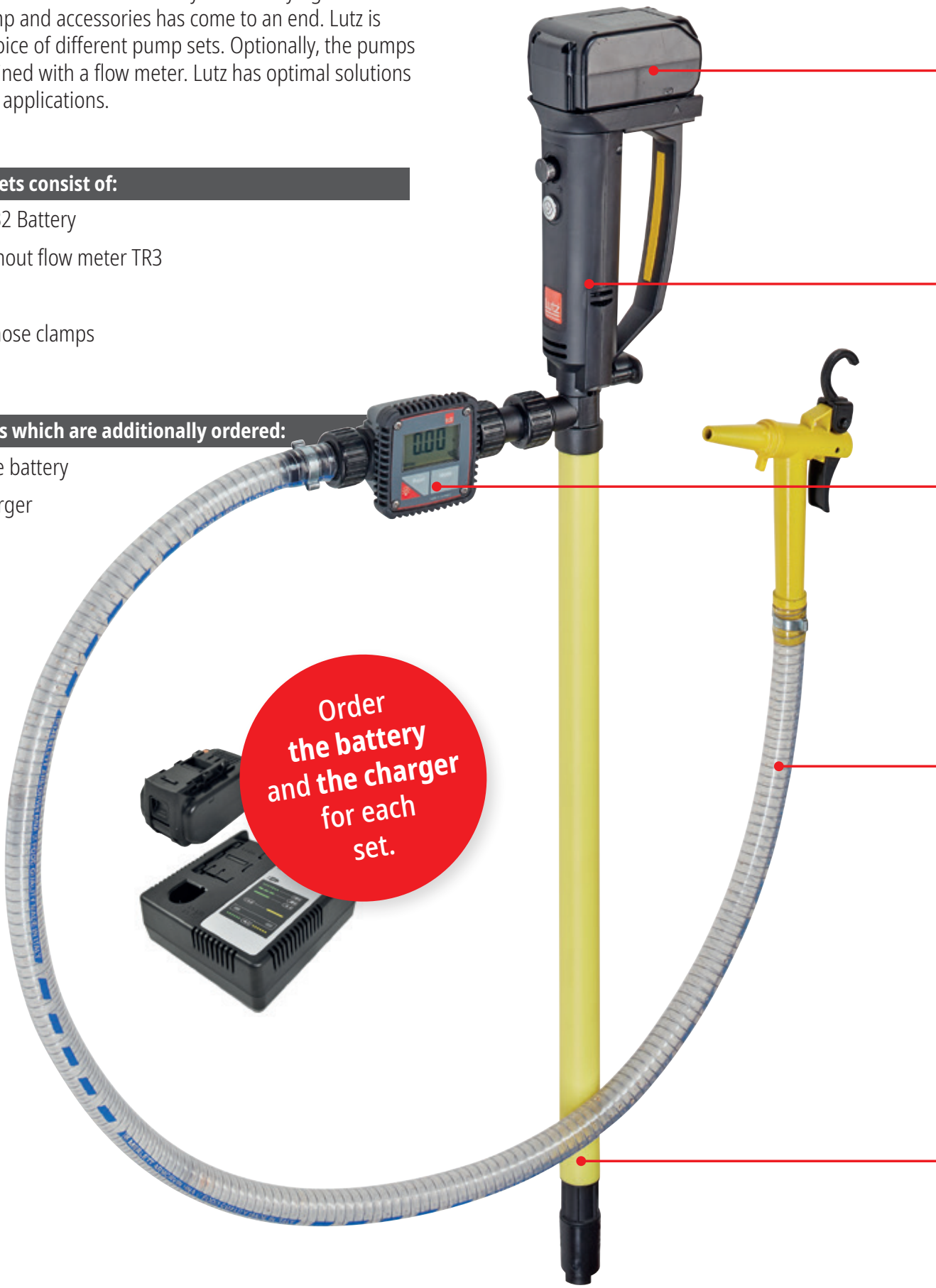
» Hose with hose clamps

» Lutz nozzle

Components which are additionally ordered:

» Replaceable battery

» Battery charger



It's that easy

Replaceable battery
with Li-Ion technology

BLDC motor

Flow meter TR

Hose set with nozzle
and hose clamps

Suitable pump tube

Lutz Pump Sets

Pump Set B1 Battery (polypropylene)

For thin-bodied fluids

such as battery acid, ammonia water, photographic developer/-fixer, glycols, phosphoric acid, hydrochloric acid and hydrogen peroxide.

For removing small quantities from hobbocks, canisters and drums.

- **Motor B1 Battery,**
  70 Watt internally ventilated

Density (kg/dm³)	**Viscosity** (mPas)	**Delivery rate** (l/min.)	**Delivery head** (m wc)
1.3	200	20	6

Max. temperature of medium 40 °C

Specified values are maximum values determined with water at 20°C, measured directly at the pressure joint. Viscosity determined with oil.

Pump Set B1 Battery

for thin-bodied fluids

For emptying canisters and drums	**Pump B1 Battery** PP 25-L SL			**Set B1 Battery** PP 25-L SL			**Set B1 Battery** PP 25-L SL with flow meter TR3-PP
Motor B1 Battery	✓			✓			✓
Flow meter TR3-PP	–			–			✓
Pump tube PP 25-L-SL	✓			✓			✓
1,5 m PVC hose 3/4"	–			✓			✓
Hose connectors 3/4"	✓			✓			✓
Hose clamps	–			✓			✓
Lutz nozzle with suspension hook	–			✓			✓
Immersion depth	500 mm	700 mm	1000 mm	500 mm	700 mm	1000 mm	1000 mm
Order No.	**0207-112**	**0207-113**	**0207-114**	**0207-090**	**0207-091**	**0207-092**	**0207-093**
Battery 10,8 V	**0332-027**						
Battery charger	**0335-336**						

Pump Set B2 Battery (polypropylene)

For thin-bodied fluids

such as battery acid, ammonia water, photographic developer/-fixer, glycols, phosphoric acid, hydrochloric acid and hydrogen peroxide.

For removing small quantities from hobbocks, canisters and drums.

- **Motor B2 Battery,**
  260 Watt internally ventilated

Impeller	Density (kg/dm³)	Viscosity (mPas)	Delivery rate (l/min.)	Delivery head (m wc)
L	1.6	400	65 (22)	12
R	1.6	400	80 (22)	8

Max. temperature of medium 50 °C

Specified values are maximum values determined with water at 20°C, measured directly at the pressure joint. Viscosity determined with oil. When using a nozzle the delivery rate is reduced to approximate values (information in the brackets).

Pump Set B2 Battery

for thin-bodied fluids

For emptying canisters and drums	Pump B2 Battery PP 32-R SL / PP 32-L SL			Set B2 Battery PP 32-R SL / PP 32-L SL			Set B2 Battery PP 32-R SL / PP 32-L SL with flow meter TR3-PP
Motor B2 Battery	✓			✓			✓
Flow meter TR3-PP	–			–			✓
Pump tube PP 32-R-SL / PP 32-L-SL	✓			✓			✓
1,5 m PVC hose 3/4"	–			✓			✓
Hose connectors 3/4"	✓			✓			✓
Hose clamps	–			✓			✓
Lutz nozzle with suspension hook	–			✓			✓
Immersion depth	500 mm	700 mm	1000 mm	500 mm	700 mm	1000 mm	1000 mm
Order No. with pump tube PP 32-R SL	**0207-100**	**0207-101**	**0207-102**	**0207-060**	**0207-061**	**0207-062**	**0207-063**
Order No. with pump tube PP 32-L SL	**0207-103**	**0207-104**	**0207-105**	**0207-065**	**0207-066**	**0207-067**	**0207-068**
Battery 21,6 V	**0332-026**						
Battery charger	**0335-335**						

Lutz Pump Sets

Pump Set B2 Battery (polyvinylidene flouride)

For concentrated acids and alkalis

such as chloric acid, chromic acid,
sulphuric acid, nitric acid, hydrofluoric acid
and sodium hypochlorite.

For removing small quantities from hobbocks,
canisters and drums.

- **Motor B2 Battery,**
  260 Watt internally ventilated

Density (kg/dm³)	Viscosity (mPas)	Delivery rate (l/min.)	Delivery head (m wc)
1.6	400	80 (45)	8

Max. temperature of medium 90 °C

Specified values are maximum values determined with water at 20°C, measured directly at the pressure joint. Viscosity determined with oil. When using a nozzle the delivery rate is reduced to approximate values (information in the brackets).

Pump Set B2 Battery
for acids and alkalis

For emptying canisters and drums	Pump B2 Battery PVDF 32-R SL			Set B2 Battery PVDF 32-R SL			Set B2 Battery PVDF 32-R SL with flow meter TR3-PVDF
Motor B2 Battery	✓			✓			✓
Flow meter TR3-PVDF	–			–			✓
Pump tube PVDF 32-R-SL	✓			✓			✓
1,5 m special chemical hose 3/4"	–			✓			✓
Hose connectors 3/4"	✓			✓			✓
Hose clamps	–			✓			✓
Nozzle PVDF	–			✓			✓
Immersion depth	500 mm	700 mm	1000 mm	500 mm	700 mm	1000 mm	1000 mm
Order No.	**0207-109**	**0207-110**	**0207-111**	**0207-080**	**0207-081**	**0207-082**	**0207-083**
Battery 21,6 V	**0332-026**						
Battery charger	**0335-335**						

Pump Set B2 Battery (stainless steel)

For thin-bodied fluids

such as oil-based lubricants, cleaner solvent and plasticizer.

For removing small quantities from hobbocks, canisters and drums.

- **Motor B2 Battery,**
  260 Watt internally ventilated

Density (kg/dm³)	**Viscosity** (mPas)	**Delivery rate** (l/min.)	**Delivery head** (m wc)
1.6	400	80 (45)	8

Max. temperature of medium 90 °C

Specified values are maximum values determined with water at 20°C, measured directly at the pressure joint. Viscosity determined with oil. When using a nozzle the delivery rate is reduced to approximate values (information in the bracket).

For emptying canisters and drums	**Pump B2 Battery** SS 28-R SL			**Set B2 Battery** SS 28-R SL with PVC hose			**Set B2 Battery** SS 28-R SL with universal chemical hose		
Motor B2 Battery	✓			✓			✓		
Pump tube SS 28-R-SL	✓			✓			✓		
1,5 m PVC hose 3/4"	–			✓			–		
1,5 m universal chemical hose 3/4"	–			–			✓		
Hose connectors 3/4"	✓			✓			✓		
Hose clamps	–			✓			✓		
Lutz nozzle with suspension hook	–			✓			–		
Nozzle Niro	–			–			✓		
Immersion depth	500 mm	700 mm	1000 mm	500 mm	700 mm	1000 mm	500 mm	700 mm	1000 mm
Order No.	**0207-106**	**0207-107**	**0207-108**	**0207-070**	**0207-071**	**0207-072**	**0207-050**	**0207-051**	**0207-052**
Battery 21,6 V	**0332-026**								
Battery charger	**0335-335**								

Lutz Drum and Container Pumps

Drum pump Lutz B1/B2 Battery (polypropylene, PVDF or stainless steel)

Productdetail

B1 Battery (motor and pump tube)		PP-SL
Material	Pump tube Impeller	PP PP
Type of impeller		L
category 1 / 2 (according to ATEX)		no
Immersion tube diameter	max. mm	25
Hose connection	Nominal diameter mm Outer thread	19 G 1
Temperature of medium	max. °C	0 up to +40
Flow rate*	up to l/min.	20
Delivery head*	up to m wc	6
Viscosity**	up to mPas	200
Density	up to kg/dm³	1.3
Weight (kg)	motor + pump tube	1.0
Power	watts	70
Voltage	volts	10.8
Length: 500 mm	Order No.	**0207-112**
Length: 700 mm	Order No.	**0207-113**
Length: 1000 mm	Order No.	**0207-114**

* determined with water at 20 °C ** determinded with oil Special lengths on request. Will be delivered without battery and battery charger.

Suitable battery			
Order No. **0332-027**	Voltage:	10.8 V	capacity: 1.5 Ah, Li-Ionen battery

Battery charger		
Order No. **0335-336**	Input:	100-240 V, 50/60 Hz

B2 Battery (motor and pump tube)		PP-SL	PP-SL	PVDF-SL	SS-SL
Material	Pump tube Impeller	PP PP	PP PP	PVDF ETFE	1.4571 ETFE
Type of impeller		R	L	R	R
category 1 / 2 (according to ATEX)		no	no	no	no
Immersion tube diameter	max. mm	32	32	32	28
Hose connection	Nominal diameter mm Outer thread	19 G 1	19 G 1	19 G 1	19 G 1
Temperature of medium	max. °C	-15 up to +50	-15 up to +50	-15 up to +90	-15 up to +90
Flow rate*	up to l/min.	80	65	80	80
Delivery head*	up to m wc	8	12	8	8
Viscosity**	up to mPas	400	400	400	400
Density	up to kg/dm³	1.6	1.6	1.6	1.6
Weight (kg)	motor + pump tube	1.6	1.6	2.0	2.5
Power	watts	260	260	260	260
Voltage	volts	21.6	21.6	21.6	21.6
Length: 500 mm	Order No.	**0207-100**	**0207-103**	**0207-109**	**0207-106**
Length: 700 mm	Order No.	**0207-101**	**0207-104**	**0207-110**	**0207-107**
Length: 1000 mm	Order No.	**0207-102**	**0207-105**	**0207-111**	**0207-108**

* determined with water at 20 °C ** determinded with oil Special lengths on request. Will be delivered without battery and battery charger.

Suitable battery			
Order No. **0332-026**	Voltage:	21.6 V	capacity: 4 Ah, Li-Ionen battery

Battery charger		
Order No. **0335-335**	Input:	100-240 V, 50/60 Hz

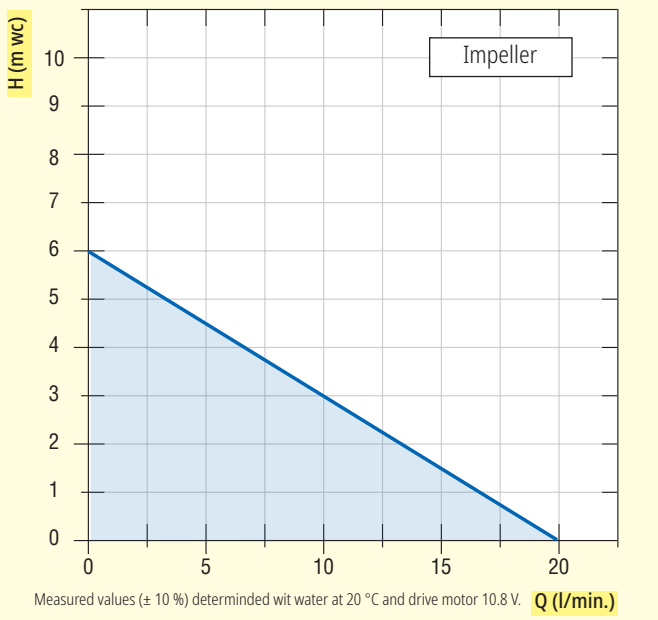
Drum Pump Lutz B1/B2 Battery

Lightweight, comfortable and powerful

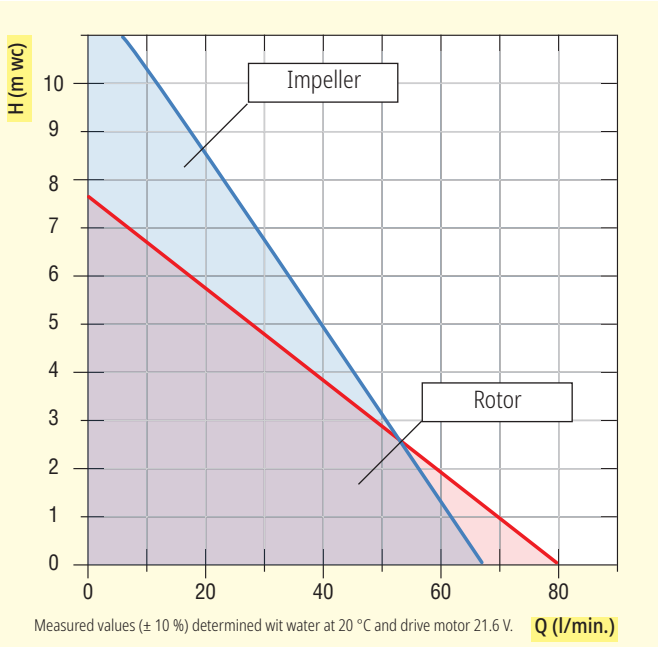
Materials (coming into contact with the pumped medium)

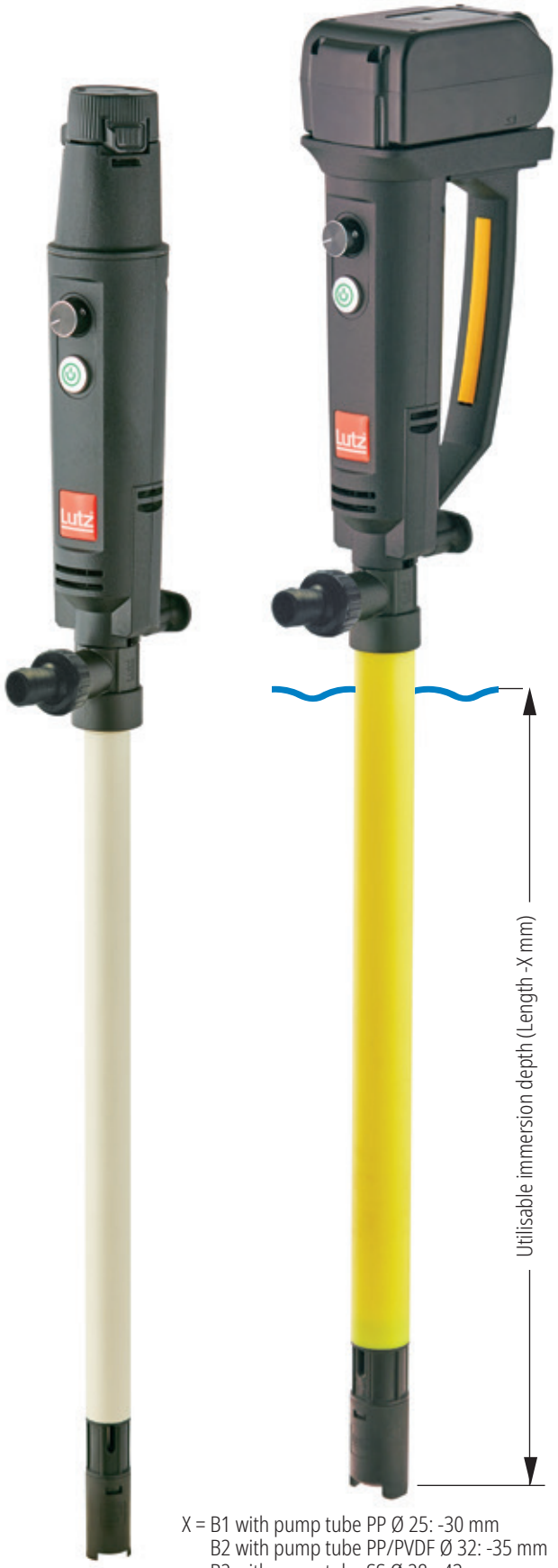
Version:	PP-SL	PVDF-SL	SS-SL
Housing:	PP/PVDF	PVDF	Stainless steel (1.4571)
Impeller:	PP	ETFE	ETFE
Seals:	none	none	none
Mechanical seal:	none	none	none
Bearing:	ETFE/PTFE	ETFE/PTFE	ETFE/PTFE
Drive shaft:	Hastelloy C	Hastelloy C	Stainless steel (1.4571)

Lutz B1 Battery



Lutz B2 Battery





X = B1 with pump tube PP Ø 25: -30 mm
B2 with pump tube PP/PVDF Ø 32: -35 mm
B2 with pump tube SS Ø 28: -43 mm

Accessories

For drum and laboratory pump Lutz B1/B2 Battery

Productdetail	Specification	Order No.
	Hose fitting for pump tube PP Consisting of: Lutz nozzle, 1.5 m PVC hose 3/4“, hose connector with wing nut, hose clamps For pump tube PP	**0201-551**
	Hose fitting for pump tube PVDF Consisting of: Nozzle PVDF, 1.5 m special chemical hose 3/4“, hose connector with wing nut, hose clamps For pump tube PVDF	**0201-554**
	Hose fitting for pump tube SS Consisting of: Nozzle SS/FEP, 1.5 m universal chemical hose 3/4“, hose connector with wing nut, hose clamps For pump tube SS	**0201-556**
	Lutz nozzle For filling and transferring neutral and aggressive liquids. The liquid stream can be regulated by a turnlock fastener. Outlet spout ø 12 mm (conical). Polypropylene housing. FPM seals. Connection: Hose liner DN 19 (3/4“)	**0201-215**
	Nozzle PVDF For filling and transferring neutral and aggressive liquids. With hoop guard and two outlet spouts ø 23 mm (cylindrical) and ø 12 mm (conical). Polyvinylidene fluoride (PVDF) housing and valve tappet. FPM seal. Additional price for seals FFPM or FEP/FPM see price list. Outer thread G 1 1/4 AG FPM seal Additional price, FFPM seal Additional price, FEP/FPM seal Additional price, EPDM seal	 **0204-390** **0204-753** **0204-739** **0204-733**

For drum and laboratory pump Lutz B1/B2 Battery

Specification		Order No.	Productdetail

Nozzle stainless steel

Ideally suitable for filling and transferring liquids in the food and pharmaceutical industry as well as flammable, easy flammable liquids.
Stainless steel (1.4571) housing and valve tappet.
With hoop guard and rotating joint. Additional price for EPDM seals see price list.

Operating pressure:	max. 3 bar	
Viscosity:	max. 760 mPas	
Flow rate:	max. 50 l/min. (water)	
Temperature of liquid.:	max. 80 °C	
Weight:	ca. 1 kg	
Connection:	outer thread G 1 1/4	
Seal:	FPM	**0204-370** ●
	FEP/FPM	**0204-377** ●

Hose clamp

Stainless steel hose clamp to fix hoses at the pump outlet and accessories.

	Nominal diameter:	
Ear clamp	DN 19 (3/4")	**0301-257**

Drum adapter

For fixing the pump B2 in the drum or container opening.
For pump type Lutz B2 Battery.

PP-SL 32	G 2 AG	**0204-328**
PP-SL 32	ø 56,7 mm	**0208-009**
SS-SL 28	ø 56,7 mm	**0208-010**
PP-SL 32	BCS 70 x 6	**0208-027**
PP-SL 32	BCS 56 x 4	**0208-051**
SS-SL 28	BCS 56 x 4	**0208-050**
SS-SL 28	BCS 70 x 6	**0208-053**

Emission proof drum adapter

Prevents the escape of hazardous gases when using a drum pump.
Thus protecting the operator, the environment and the drive motor from hazardous and aggressive gases. Two venting valves ensure pressure compensation between inside of the drum and surrounding atmosphere.

Connection for gas displacement pipe: G 3/8
Screw-in thread: G 2 outer thread
Seals: FPM

Material:	for pump type:	
PP	PP-SL 32	**0204-251**

Foot strainer

Made of PP for mounting onto the pump foot.
Keeps impurities away from the rotating parts.

Material:	for pump tube:	
PP	ø 32 mm	**0204-539**

Universal line adapter

For Europe, UK, USA, Australia, China
100-240 V, max. 2.5 A **0336-195**

Accessories

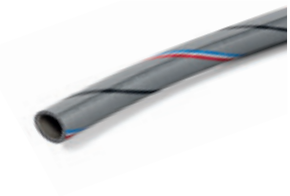
For drum and laboratory pump Lutz B1/B2 Battery

Productdetail	Specification	Order No.

PVC-spiral hose

Hose made of PVC, with galvanized steel helix. For aggressive, non-flammable liquids.

Temperature of liquid:	-5 up to +65 °C		
Nominal diameter:	Weight:	Operating pressure:	
DN 19 (3/4")	0.31 kg/m	max. 5 bar	**0374-457**

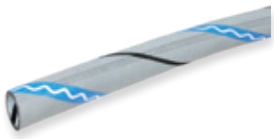


Special chemical hose FEP

Colour coding: "blue/white/red".

Operating pressure:	max. 16 bar	
Range of temperature:	-30 up to +100 °C (dependant on the liquid)	
Nominal diameter:	Weight:	
DN 19 (3/4")	0.7 kg/m	**0374-428**

For more details see leaflet drum pumps.



Universal chemical hose

Colour coding: "blue/white/blue".
Suitable for clean chemicals, cosmetics, photo-chemicals, lacquers and glues, washing and cleaning products, hygienic products as well as foodstuffs and luxury foodstuffs, (for more details see resistance table).
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 (<10^6 Ohm between the fittings, <10^9 Ohm through the hose wall) according to DIN EN 12115:2011.

Operating pressure:	max. 16 bar	
Range of temperature:	-30 up to +100 °C (dependant on the liquid), steaming out up to 130°C for max. 30 minutes (open ends)	
Nominal diameter:	Weight:	
DN 19 (3/4")	0.6 kg/m	**0374-475** ●

Electronic flow meter, TR3 series

For efficient flow rate measuring of various liquids. Ease of handling, compact design, available in polypropylene (PP) or polyvinylidene flouride (PVDF).

TR3-PP	Connection G1	**0213-051**
TR3-PVDF	Connection G1	**0213-061**

For more details see leaflet flow meter.

Trolley for steel and plastic drums

Suitable for 200-litre drum, with 2 swivel castors
and 2 fixed castors made of painted tubular steel frame,
with holder for nozzle, hose and cable **0371-030**

Lutz

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