

## New Lutz Battery Pumps B1 Battery, B2 Battery

Lightweight and powerful



**Safety is our Concern**

# Lutz Drum and Container Pumps

Lightweight and powerful

## 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, low weight, and life service.

### Features/Benefits:

- » BLDC motor with up to 70% efficiency
- » Variable speed control
- » Modular construction
- » Lightweight
- » High capacity battery
- » Long service life
- » Low noise level  $\leq 70$  dBA
- » Quick-action coupling
- » Available in **polypropylene**, **polyvinylidene fluoride** and **stainless steel** (316 Ti)



### Mobile Pump Station

For flexible use, the pump and the drum can be easily and quickly moved to a different location via trolley (Order No. 0371-030).

### B1 Battery:



**1 Battery charge =  
2 x 55 gallon Container\***

\* determined with pump tube PP 25-L SL

**Battery life:  
25 minutes  
at max. speed**

### B2 Battery:



**1 Battery charge =  
12 x 55 gallon Container\***

\* determined with pump tube PP 32-R SL

**Battery life:  
34 minutes  
at max. speed**

# Lutz Drum Pump B1/B2 Battery

## B1 Battery:

- » Small to medium filling quantities
- » Low power
- » Lower viscosity up to max. 200 cps
- » Low pressures/low flow rates
- » Spec. gravity up to max. 1.3
- » Automatic switch-off at overload



Rechargeable battery with Li-Ion technology

Infinitely variable for all demands

Easy handling due to compact design and lightweight

Wear-free, low-level noise BLDC motor

Easy disassembly with quick coupling

## B2 Battery:

- » Medium to large filling volume
- » Particularly high performance at a low weight
- » Higher viscosity up to max. 400 cps
- » Higher pressures/flow rates
- » Spec. gravity up to max. 1.6
- » Longer battery life
- » Automatic switch-off at overload



Rechargeable, high-performance Li-Ion technology

Infinitely variable for all demands

Easy handling: compact design, convenient carrying handle and lightweight

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

Easy disassembly with quick coupling

# 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 pump sets. Optionally, the pumps can be combined with a flow meter.

Lutz has optimal solutions for almost all applications.

### Our pump sets include:

- » Motor B1/B2 Battery
- » With or without TR90 flow meter
- » Pump tube
- » Hose with hose clamps
- » Lutz nozzle

### Accessories ordered separately:

- » Battery
- » Charger





Rechargeable battery  
with Li-Ion technology



BLDC motor



Flow meter TR3



Hose set with nozzle  
and hose clamps



Pump tube





# Lutz Pump Sets

## Pump Set B1 Battery (polypropylene)

### For thin-bodied fluids

such as battery acid, ammonia solution, glycols, phosphoric acid, hydrochloric acid and hydrogen peroxide.

For transferring small quantities from canisters and drums.

- **Motor B1 Battery**  
70 watt/0.094 HP internally ventilated

Spec. gravity:	Viscosity (cps)	Quantity (GPM)	Delivery head (FT)
1.3	200	5.3	20

Max. temperature of medium 104 °F  
Specified values are maximum values determined with water at 68 °F, measured directly at the pressure joint. Viscosity determined with oil.



### Pump Set B1 Battery

for thin-bodied fluids



For emptying canisters and drums	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 in polypropylene		✓		✓
59" PVC hose 3/4"		✓		✓
Hose clamps		✓		✓
Lutz nozzle		✓		✓
Immersion depths	19"	27"	39"	39"
Order No.	0207-090	0207-091	0207-092	0207-093
Battery 10.8 V			0332-027	
Battery charger			0335-336	

# Lightweight and powerful

## Pump Set B2 Battery (polypropylene)

### For thin-bodied fluids

such as battery acid, ammonia solution, glycols, phosphoric acid, hydrochloric acid and hydrogen peroxide.

For transferring small quantities from canisters and drums.

#### • Motor B2 Battery

260 watt/0.35 HP internally ventilated

Impeller	Spec. gravity:	Viscosity (cps)	Quantity (GPM)	Delivery head (FT)
L	1.6	400	17 (5.8)	39
R	1.6	400	21 (5.8)	26

Max. temperature of medium 122 °F

Specified values are maximum values determined with water at 68 °F, measured directly at the pressure joint. Viscosity determined with oil. When using a nozzle the delivery rate is reduced to approximate values (information in parentheses).



### Pump Set B2 Battery

for thin-bodied fluids



For emptying canisters and drums	Set B2 Battery PP 32-R SL			Set B2 Battery PP 32-L SL			Set B2 Battery PP 32-R SL with flow meter TR3-PP	Set B2 Battery PP 32-L SL with flow meter TR3-PP
Motor B2 Battery	✓			✓			✓	✓
Flow meter TR3-PP	-			-			✓	✓
Pump tube PP 32-L SL	-			✓			-	✓
Pump tube PP 32-R SL	✓			-			✓	-
59" PVC hose 3/4"	✓			✓			✓	✓
Hose clamps	✓			✓			✓	✓
Lutz nozzle	✓			✓			✓	✓
Immersion depths	19"	27"	39"	19"	27"	39"	39"	39"
Order No.	0207-060	0207-061	0207-062	0207-065	0207-066	0207-067	0207-063	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 transferring small quantities from canisters  
and drums.

- **Motor B2 Battery**  
260 watt/0.35 HP internally ventilated

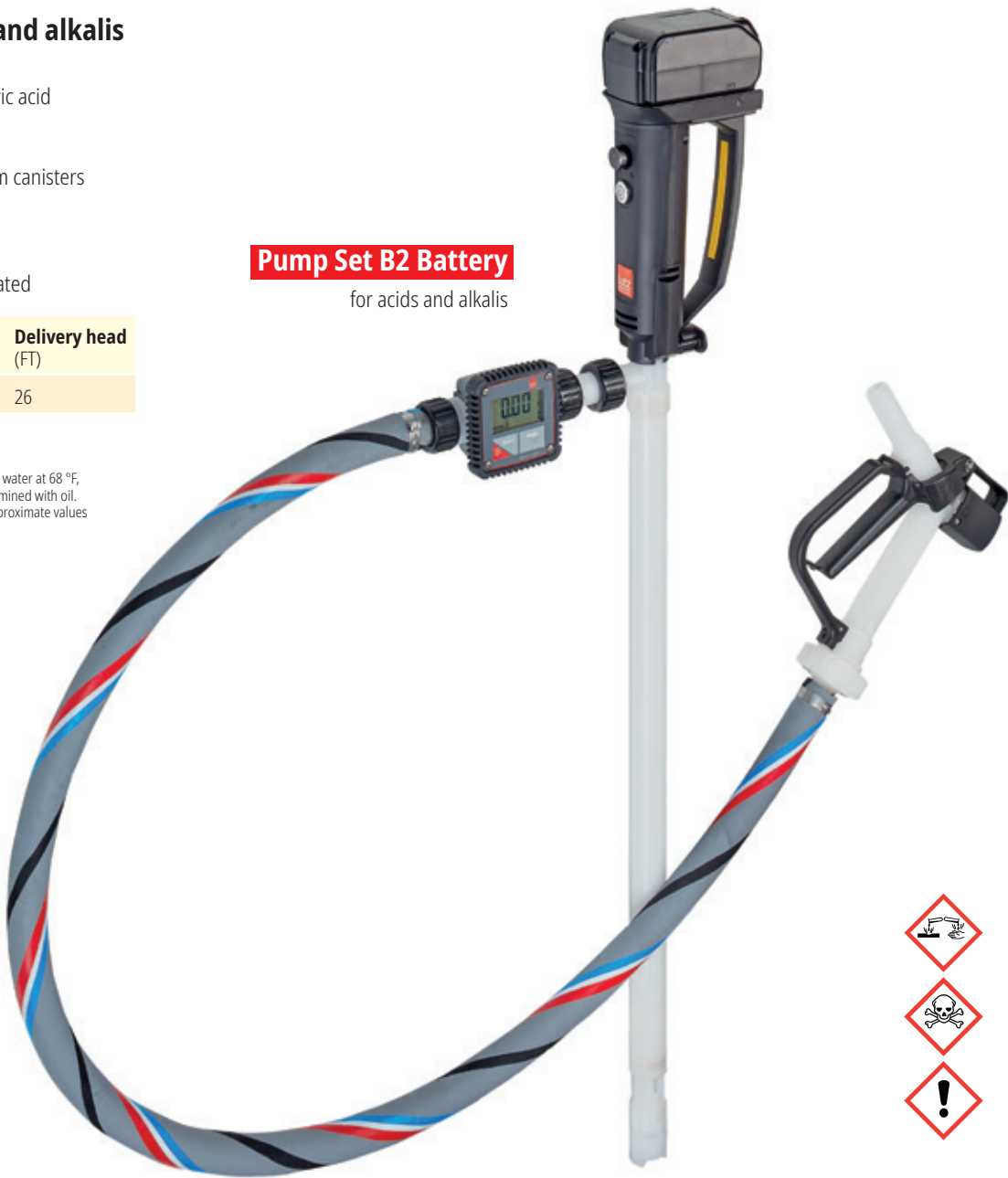
Spec. gravity:	Viscosity (cps)	Quantity (GPM)	Delivery head (FT)
1.6	400	21 (12)	26

Max. temperature of medium 194 °F

Specified values are maximum values determined with water at 68 °F,  
measured directly at the pressure joint. Viscosity determined with oil.  
When using a nozzle the delivery rate is reduced to approximate values  
(information in parentheses).

### Pump Set B2 Battery

for acids and alkalis



### For emptying canisters and drums

### 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		✓		✓
59" special chemical hose 3/4"		✓		✓
Hose connection		✓		✓
Nozzle PVDF		✓		✓
Immersion depths	19"	27"	39"	39"
Order No.	0207-080	0207-081	0207-082	0207-083
Battery 21.6 V			0332-026	
Battery charger			0335-335	



# Lightweight and powerful

## Pump Set B2 Battery (stainless steel)

### For thin-bodied fluids

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

For transferring small quantities from canisters and drums.

- **Motor B2 Battery**

260 watt/0.35 HP internally ventilated

Spec. gravity:	Viscosity (cps)	Quantity (GPM)	Delivery head (FT)
1.6	400	21 (12)	26

Max. temperature of medium 194 °F

Specified values are maximum values determined with water at 68 °F, 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).



### Pump Set B2 Battery

for thin-bodied fluids



### For emptying canisters and drums

### Set B2 Battery SS 28-R SL

Motor B2 Battery		✓	
Pump tube SS 28-R SL		✓	
59" universal chemical hose 3/4"		✓	
Hose connection		✓	
Nozzle stainless steel		✓	
Immersion depths	19"	27"	39"
Order No.	0207-050	0207-051	0207-052
Battery 21.6 V		0332-026	
Battery charger		0335-335	

# Lutz Drum and Container Pumps

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

Product detail		B1 Battery (motor and pump tube)		PP-SL		
	Material	Pump tube		PP		
		Impeller		PP		
	Type of impeller			L		
	Category 1 / 2 (according to ATEX)			no		
	Immersion tube diameter	max. inches		0.98		
	Hose connection	Nominal diameter		0.75		
		inches		G 1		
		Outer thread				
	Temperature of medium	max. °F		32 up to 104		
	Flow rate*	up to GPM		5.3		
	Delivery head*	up to FT		20		
	Viscosity**	up to cps		200		
	Spec. gravity	up to		3.3		
	Weight (lbs)	motor + pump tube		1.0		
Power	watt/HP		70/0.094			
Voltage	volts		10.8			
Length: 19"	Order No.			0207-112		
Length: 27"	Order No.			0207-113		
Length: 39"	Order No.			0207-114		
* determined with water at 68 °F    ** determined 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-Ion 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	PP	PP	PVDF	316 Ti
		Impeller	PP	PP	ETFE	ETFE
	Type of impeller		R	L	R	R
	Category 1 / 2 (according to ATEX)		no	no	no	no
	Immersion tube diameter	max. inches	1.26	1.26	1.26	1.1
	Hose connection	Nominal diameter	19	19	19	19
		inches	G 1	G 1	G 1	G 1
		Outer thread				
	Temperature of medium	max. °F	5 up to 122	5 up to 122	5 up to 194	5 up to 194
	Flow rate*	up to GPM	21	17	21	21
	Delivery head*	up to FT	26	39	26	26
	Viscosity**	up to cps	400	400	400	400
	Spec. gravity	up to	1.6	1.6	1.6	1.6
	Weight (lbs)	motor + pump tube	3.3	3.3	3.7	4.6
Power	watt/HP	260/0.35	260/0.35	260/0.35	260/0.35	
Voltage	volts	21.6	21.6	21.6	21.6	
Length: 19"	Order No.	0207-100	0207-103	0207-109	0207-106	
Length: 27"	Order No.	0207-101	0207-104	0207-110	0207-107	
Length: 39"	Order No.	0207-102	0207-105	0207-111	0207-108	
* determined with water at 68 °F    ** determined 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-Ion battery		
Battery charger						
Order No.	0335-335	Input:	100-240 V, 50/60 Hz			

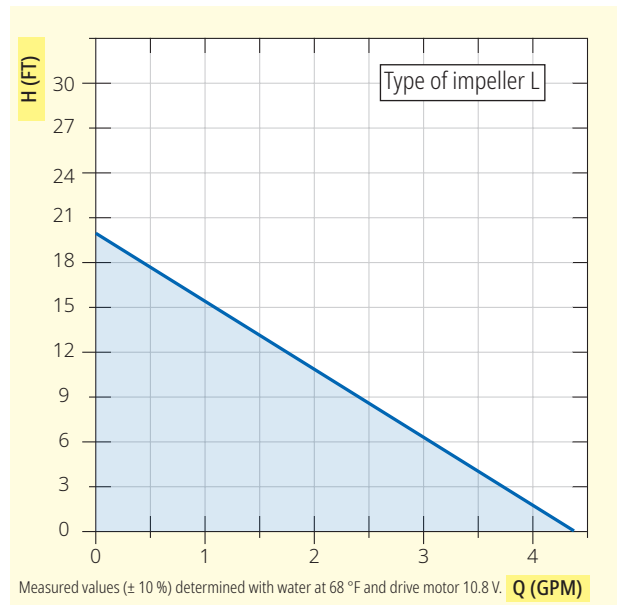
# Drum Pump Lutz B1/B2 Battery

Lightweight and powerful

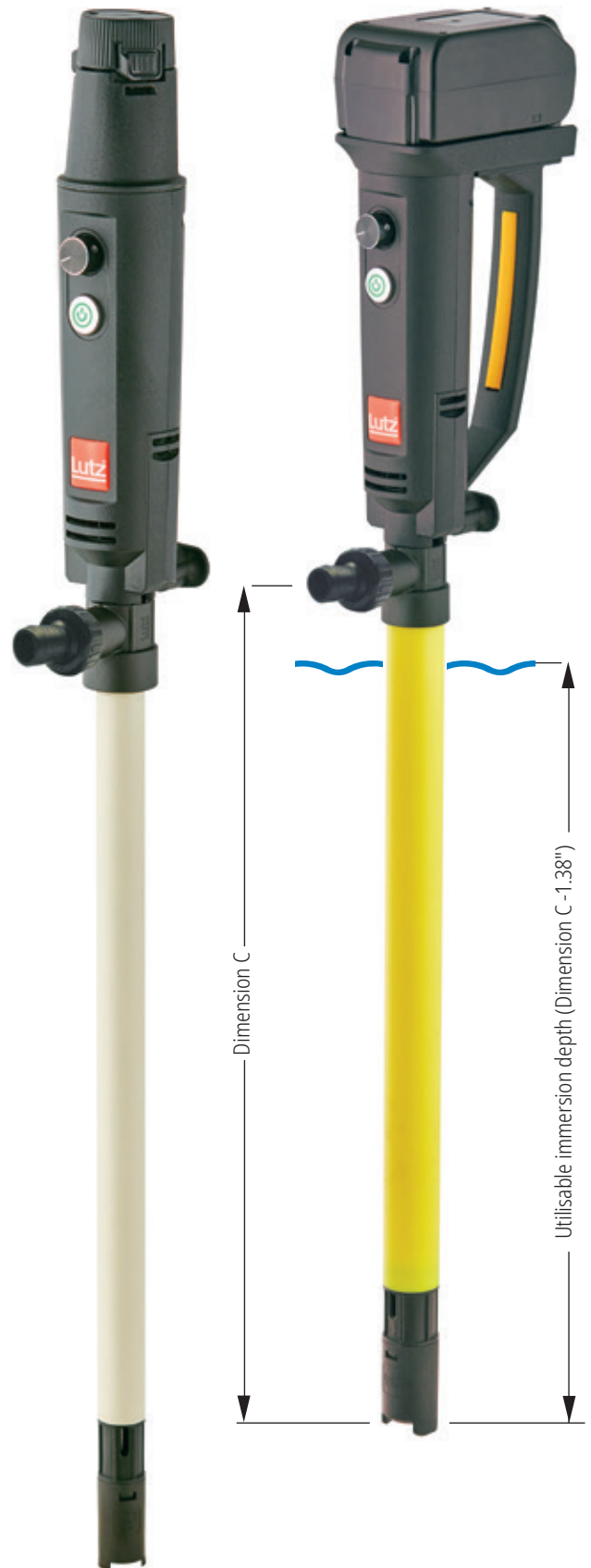
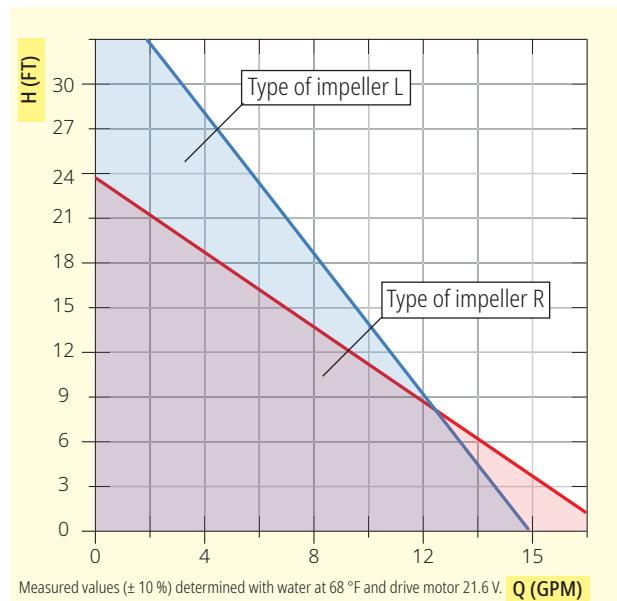
## Materials

Version:	PP-SL	PVDF-SL	SS-SL
Housing:	PP/PVDF	PVDF	Stainless steel (316 Ti)
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 (316 Ti)

## Lutz B1 Battery








## Lutz B2 Battery



# Accessories

## For drum and laboratory pumps Lutz B1/B2 Battery

Product detail	Specification	Order No.
	<p><b>Hose fitting for pump tube PP</b></p> <p>Includes: Lutz nozzle, 59" PVC hose 3/4", hose connector with wing nut, hose clamps</p> <p>For pump tube PP</p>	0201-551
	<p><b>Hose fitting for pump tube PVDF</b></p> <p>Includes: Nozzle PVDF, 59" special chemical hose 3/4", hose connector with wing nut, hose clamps</p> <p>For pump tube PVDF</p>	0201-554
	<p><b>Hose fitting for pump tube SS</b></p> <p>Includes: Nozzle SS/FEP, 59" universal chemical hose 3/4", hose connector with wing nut, hose clamps</p> <p>For pump tube SS</p>	0201-556
	<p><b>Lutz nozzle</b></p> <p>For filling and transferring neutral and aggressive liquids. Flow can be regulated by a turnlock fastener. Outlet spout ø 0.47" (conical). Polypropylene housing. FPM seals.</p> <p>Connection:                      Hose liner DN 19 (3/4")</p>	0201-215
	<p><b>Nozzle PVDF</b></p> <p>For filling and transferring neutral and aggressive liquids. With hoop guard and two outlet spouts ø 0.9" (cylindrical) and ø 0.47" (conical). Polyvinylidene fluoride (PVDF) housing and valve tappet. FPM seal. Additional price for seals FFPM or FEP/FPM see price list.</p> <p>Outer thread G 1 1/4 AG FPM seal Additional price, FFPM seal Additional price, FEP/FPM seal Additional price, EPDM seal</p>	0204-390 0204-753 0204-739 0204-733

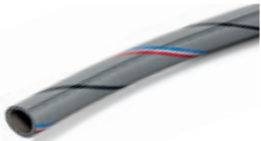
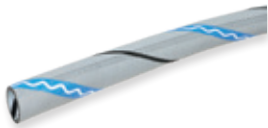


Specification	Order No.	Product detail
<b>Nozzle stainless steel</b> Ideally suited for filling and transferring flammable liquids as well as liquids in the food and pharmaceutical industries. Stainless steel (316 Ti) housing and valve tappet. With hoop guard and rotating joint. Additional price for EPDM seals (see price list).  Operating pressure: max. 43.5 psi Viscosity: max. 760 cps Flow rate: max. 11 GPM (water) Temperature of liquid.: max. 176 °F Weight: ca. 2.2 lbs Connection: outer thread G 1 1/4 Seal: FPM FEP/FPM	<b>0204-370</b> ● <b>0204-377</b> ●	
<b>Hose clamp</b> Stainless steel hose clamp to secure hoses at the pump outlet and accessories.  Ear clamp                      Nominal diameter: DN 19 (3/4")	<b>0301-257</b>	
<b>Drum adapter</b> For fastening the B2 pump in the drum or container opening. For Lutz B2 Battery.  PP-SL 32                      G 2 AG <b>0204-328</b> PP-SL 32                      ø 2.2" <b>0208-009</b> SS-SL 28                      ø 2.2" <b>0208-010</b> PP-SL 32                      BCS 70 x 6 <b>0208-027</b> PP-SL 32                      BCS 56 x 4 <b>0208-051</b> SS-SL 28                      BCS 56 x 4 <b>0208-050</b> SS-SL 28                      BCS 70 x 6 <b>0208-053</b>		
<b>Fume Barrier</b> 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 the inside of the drum and the 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	<b>0204-251</b>	
<b>Foot strainer</b> Made of PP for mounting onto the pump foot. Keeps contaminants away from the rotating parts.  Material:                      for pump tube: PP                              ø 1.26"	<b>0204-539</b>	
<b>Universal line adapter</b> For Europe, UK, USA, Australia, China 100-240 V, max. 2.5 A	<b>0336-195</b>	

● Suitable for the transfer of combustible and easily inflammable liquids (e.g. ethanol, petrol) and for pumping liquids in potentially explosive environments.



# Accessories

## For drum and laboratory pump Lutz B1/B2 Battery

Product detail	Specification	Order No.
	<b>PVC-spiral hose</b> Hose made of PVC, with galvanized steel helix. For aggressive, non-flammable liquids. Temperature of liquid: 23up to 149 °F Nominal diameter: DN 19 (3/4")    Weight: 0.68 lbs    Operating pressure: max. 72.5 psi	<b>0374-457</b>
	<b>Special chemical hose FEP</b> Color coding: "blue/white/red". Operating pressure: max. 232 psi Temperature range: -22 up to +212 °F (dependent on the liquid) Nominal diameter: DN 19 (3/4")    Weight: 1.55 lbs	<b>0374-428</b>
	<b>Universal chemical hose</b> Color 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 Q/T (<10 <sup>6</sup> Ohm between the fittings, <10 <sup>9</sup> Ohm through the hose wall) according to DIN EN 12115:2011. Operating pressure: max. 232 psi Temperature range: -22 up to +212 °F (dependent on the liquid), steaming out up to 266°F for max. 30 minutes (open ends) Nominal diameter: DN 19 (3/4")    Weight: 1.3 lbs	<b>0374-475</b> ●
	<b>Electronic flow meter, TR3 series</b> For efficient flow rate measuring of various liquids. Easy operation, compact design, available in polypropylene (PP) or polyvinylidene fluoride (PVDF). TR3-PP    Connection G1 TR3-PVDF    Connection G1	<b>0213-051</b> <b>0213-061</b>
	<b>Trolley for steel and plastic drums</b> Suitable for 55 gallon drums, with 2 swivel castors and 2 fixed castors made of painted tubular steel frame, with holder for nozzle, hose and cable	<b>0371-030</b>

● Suitable for the transfer of combustible and easily inflammable liquids (e.g. ethanol, petrol) and for pumping liquids in potentially explosive environments.





Lutz offers the  
optimum  
solution for  
professional  
Fluid Management

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Drum and Container Pumps • Flow Meters • Double Diaphragm Pumps