

**Be prepared
with Lutz**



**Safety is
our concern**

L u t z P u m p S e t s

L u t z P u m p S e t s

Lutz Pump Sets

A quick solution for many applications

Individual
Pu

1

Advantages at a glance:

- Ideally harmonised with the liquid being pumped
- Fast assembly
- Immediately ready for action
- Ideal for pumping and filling thin-bodied liquids
- Different pump sets for selection
- For emptying of canisters, drums and containers

2

Already pre-assembled

Immediately ready for action. Just delivered, you can start with the new pump sets from Lutz to empty thin-bodied liquids from canisters, drums and containers. We have made preparatory work saving your time.

3

Ideal combination

Whether acids or alkalis, light or concentrated, mineral oil products, hazardous fluids or solvents: Lutz offers for all these applications the ideal solution.

4

A clear advantage

With practice-orientated
2.5 m hose

Example:

Pump set consisting of:

- Motor
- Pump tube
- Hose
- Hose clips
- Nozzle
- Drum adapter



Lutz Pump Sets for:	Page
Acids and alkalis (laboratory sector)	4-5
Alkalis	6
Acids	7
Concentrated acids and alkalis	8
Mineral oil products	9
Solvents	10
Hazardous fluids	11
Complete drum drainage for solvents	12
Complete drum drainage for hazardous fluids	13
Lutz flow meter	14
Characteristic data and order numbers	15



From the laboratory to the production

For thin-bodied fluids

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

For filling small quantities from hobbocks, canisters and drums.

- **Motor B2,**
200 W internally ventilated



Pump Set B2

for thin-bodied fluids

with shaft HC
(Hastelloy C)



	For emptying canisters and drums	Pump B2*	Pump Set B2
	Immersion depth 650 mm Order No.	0201-203	0201-223
	Immersion depth 1000 mm Order No.	0201-208	0201-228

Pump Set: **Pump B2** polypropylene, **1,5 m** PCV-hose 3/4", Lutz-nozzle, hose clips, curved spout, wall bracket

*Pump B2 with hose connection PP 3/4"

For thin-bodied fluids

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

For filling small quantities from hobboscks, canisters and drums.

- **Motor B2**,
200 W internally ventilated



Pump System Set B2

for thin-bodied fluids

with shaft HC
(Hastelloy C)



	For emptying canisters and drums	Pump B2*	Pump Set B2
	Immersion depth 650 mm Order No.	0201-203	0201-210
	Immersion depth 1000 mm Order No.	0201-208	0201-211

Pump System Set: **Pump B2** polypropylene, **flow meter TR-120 PP**, **1.5 m PCV-hose 3/4"**, Lutz-nozzle, hose clips, curved spout, wall bracket

*Pump B2 with hose connection PP 3/4"

For safe transfer of chemicals



Pump Set Alcalis

with motor MA II 3
externally ventilated

Motor MI 4
For individual application.
For aggressive and non-flammable liquids.

Pump Set Alcalis

with motor MI-4
internally ventilated

For thin-bodied alcalis

such as sodium chloride, kalihydrate, ammonia solution, formic acid and acetic acid.

- **Motor MI 4**, 500 W internally ventilated or optionally with
- **Motor MA II 3**, 460 Watt externally ventilated





Easy fluid measurement optionally with flow meter TR-120 PP
Order No.: 0213-011

with shaft SS

(stainless steel 1.4571)



	For emptying drums and containers	Pump* with MI-4	Pump* with MA II 3	Set with MI-4	Set with MA II 3
	Imm. depth 1000 mm	Order No. 0205-105	0205-125	0205-101	0205-121
	Imm. depth 1200 mm	Order No. 0205-106	0205-126	0205-102	0205-122

Pump Set: **Motor MI-4 or MA II 3, pump tube PP 41-L-SL SS** polypropylene with stainless steel shaft, **2,5 m** PVC-hose 3/4" and hose connections, hose clips, nozzle PP, drum adapter PP

*Motor, Pump Tube PP, Hose Connection 3/4"

Pump Set Acids

with motor MI-4
internally ventilated



Pump Set Acids

with motor MA II 3
externally ventilated



Motor MA II 3

For fuming liquids or corrosive vapours. Powerful, externally ventilated universal motor.

For thin-bodied acids

such as hydrochloric acid, battery acid, ferric (III) chloride, phosphoric acid, chromic acid and citric acid.

- **Motor MA II 3**, 460 Watt externally ventilated or optionally with
- **Motor MI 4**, 500 W internally ventilated





Easy fluid measurement optionally with flow meter TR-120 PP
Order No.: 0213-011

with shaft HC

(Hastelloy C)



	For emptying drums and containers	Pump* with MI-4	Pump* with MA II 3	Set with MI-4	Set with MA II 3
	Imm. depth 1000 mm	Order No. 0205-115	0205-135	0205-111	0205-131
	Imm. depth 1200 mm	Order No. 0205-116	0205-136	0205-112	0205-132

Pump Set: **Motor MI-4 or MA II 3, pump tube PP 41-L-SL HC** polypropylene with Hastelloy C shaft, **2,5 m** PVC-hose 3/4" and hose connections, hose clips, nozzle PP, drum adapter PP

*Motor, Pump Tube PP, Hose Connection 3/4"

For concentrated acids and alkalis

Pump Set Acids and Alkalis

with motor MA II 3 or
MA II 5 externally ventilated

Motor MA II 3

For fuming liquids or corrosive vapours. Powerful, externally ventilated universal motor.

For concentrated acids and alkalis



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

- **Motor MA II 3**, 460 W externally ventilated or optionally with
- **Motor MA II 5**, 575 Watt externally ventilated



Easy fluid measurement optionally with flow meter TR-120 PVDF
Order No.: 0213-021



	For emptying drums and containers	Pump* with MA II 3	Pump* with MA II 5	Set with MA II 3	Set with MA II 5
	Imm. depth 1000 mm	Order No. 0205-215	0205-205	0205-211	0205-201
	Imm. depth 1200 mm	Order No. 0205-216	0205-206	0205-212	0205-202

Pump Set: **Motor MA II 3 or MA II 5**, pump tube PVDF 41-L-SL polyvinylidene fluoride, **2,5 m** special chemical hose 3/4" and hose connections, hose clips, nozzle PVDF, with swivel hose connection, drum adapter PP

*Motor, Pump Tube PVDF, Hose Connection 3/4"

The solution for mineral oil products

Motor MI-4

Universalmotor for individual application.
For aggressive and non-flammable liquids.
Strong when handling mineral oil products.

Pump Set Mineral Oil Products

with motor MI-4
internally ventilated or MD 1

For light viscous mineral oil products



such as Diesel, fuel oil, hydraulic oil,
machinery oil and motor oil.

- **Motor MI 4**, 500 W internally ventilated or optionally with
- **Compressed air motor MD-2**, 400 Watt /6 bar with stop valve and nipple

Motor MD-1

The compact compressed air motor is powerful and reliable.



	For emptying drums and containers	Pump* with MI-4	Pump* with MD-1	Set with MI-4	Set with MD-1
 Imm. depth 1000 mm	Order No. 0205-305	0205-315	0205-301	0205-311	
 Imm. depth 1200 mm	Order No. 0205-306	0205-316	0205-302	0205-312	

Pump Set: **Motor MI-4 or MD-1**, pump tube **Alu 41-L-SL** aluminium, **2,5 m** PVC hose 1" and hose connections, hose clips, nozzle Alu, drum adapter PP

*Motor, Pump Tube Alu, Hose Connection 1"
For high viscous oils suitable pump types are available in our general catalogue.

For solvents

Pump Set Solvents

with motor ME II 3 or MD-2

Motor ME II 3

The **explosion proof** universal motor ME II 3 is ideally suitable for transferring of many thin-bodied, easily flammable and combustible liquids.

For easily flammable hydrocarbons

such as ethanol, gasoline, butanol, isopropanol, kerosene, methanol and petroleum.

- **Motor ME II 3**, 460 W or optionally with
- **Compressed air motor MD-2**, 400 Watt /6 bar



Explosion proof according to Directive 94/9/EC-Atex 100a, category 2.



Motor MD-2

The compact compressed air motor is powerful and reliable.



	For emptying drums and containers	Pump* with ME II 3	Pump* with MD-2	Set with ME II 3	Set with MD-2
	Imm. depth 1000 mm	Order No. 0205-405	0205-425	0205-401	0205-421
	Imm. depth 1200 mm	Order No. 0205-406	0205-426	0205-402	0205-422

Pump Set: **Motor ME II 3 or MD-2**, **pump tube SS 41-L-SL** stainless steel, **2,5 m solvent hose 1"**, electrically conductive bound with hose connectors brass, nozzle brass, equipotential bonding cable, drum adapter PP (without Ex-plug)

For all hazardous fluids

Motor ME II 3

The **explosion proof** universal motor ME II 3 is ideally suitable for transferring of many thin-bodied, easily flammable and combustible liquids.

For hazardous fluids

such as acetone, conc. formic acid, ethyl acetate, butyl acetate, conc. acetic acid, nicotine, methyl benzene (toluol) and styrol.

- **Motor ME II 3**, 460 W or optionally with
- **Compressed air motor MD-2**, 400 Watt /6 bar

Explosion proof according to Directive 94/9/EC-Atex 100a, category 2.

Pump Ex-Set

with motor ME II 3 or MD-2





Motor MD-2

The compact compressed air motor is powerful and reliable.

Ex-plug

Can be optionally supplied with Ex-plug completely assembled.



	For emptying drums and containers	Pump* with ME II 3	Pump* with MD-2	Set with ME II 3	Set with MD-2
	Imm. depth 1000 mm	Order No. 0205-405	0205-425	0205-411	0205-441
	Imm. depth 1200 mm	Order No. 0205-406	0205-426	0205-412	0205-442

Pump Set: **Motor ME II 3 or MD-2**, **pump tube SS 41-L-SL** stainless steel, **2,5 m** universal chemical hose 1", electrically conductive bound with hose connectors stainless steel, nozzle stainless steel 1.4571, equipotential bonding cable, drum adapter PP (without Ex-plug)

*Motor, Pump Tube SS, Equipotential bonding cable

Complete drum drainage for solvents

Pump Set Solvents

with motor ME II 3 or MD-2

Motor ME II 3

The **explosion proof** universal motor ME II 3 is ideally suitable for transferring of many thin-bodied, easily flammable and combustible liquids.

For easily flammable hydrocarbons

such as ethanol, gasoline, butanol, isopropanol, kerosene, methanol and petroleum.

- **Motor ME II 3**, 460 W or optionally with
- **Compressed air motor MD-2**, 400 Watt /6 bar

Explosion proof according to Directive 94/9/EC-Atex 100a, category 2.



Motor MD-2



The compact compressed air motor is powerful and reliable.



Complete drainage

Residual quantity < 0.10 litres



For complete drainage of drums and containers	Pump*	Pump* with ME II 3	Set with MD-2	Set with ME II 3	Set with MD-2
 Imm. depth 1000 mm	Order No. 0205-505	0205-525	0205-501	0205-521	
 Imm. depth 1200 mm	Order No. 0205-506	0205-526	0205-502	0205-522	

Pump Set: Motor ME II 3 or MD-2, **pump tube RE-SS 41-L-MS** stainless steel, **2,5 m** solvent hose 1", electrically conductive bound with hose connectors brass, nozzle brass, equipotential bonding cable, drum adapter PP (without Ex-plug)

*Motor, Pump Tube RE-SS, Equipotential bonding cable

Complete drum drainage for hazardous fluids

Motor ME II 3

The **explosion proof** universal motor ME II 3 is ideally suitable for transferring of many thin-bodied, easily flammable and combustible liquids.

For hazardous fluids

such as acetone, conc. formic acid, ethyl acetate, butyl acetate, conc. acetic acid, nicotine, methyl benzene (toluol) and styrol.

- **Motor ME II 3**, 460 W or optionally with
- **Compressed air motor MD-2**, 400 Watt /6 bar

Explosion proof according to Directive 94/9/EC-Atex 100a, category 2.

Pump Ex-Set

with motor ME II 3 or MD-2



Motor MD-2



The compact compressed air motor is powerful and reliable.



Ex-plug

Can be optionally supplied with Ex-plug completely assembled.



For emptying drums and containers	Pump* with ME II 3	Pump* with MD-2	Set with ME II 3	Set with MD-2
 Imm. depth 1000 mm	Order No. 0205-505	0205-525	0205-511	0205-531
 Imm. depth 1200 mm	Order No. 0205-506	0205-526	0205-512	0205-532

Pump Set: **Motor ME II 3 or MD-2**, **pump tube RE-SS 41-L-MS** stainless steel, **2,5 m** universal chemical hose 1", electrically conductive bound with hose connectors stainless steel, nozzle stainless steel (1.4571), equipotential bonding cable, drum adapter PP (without Ex-plug)

*Motor, Pump Tube RE-SS, Equipotential bonding cable

Lutz flow meter



Series TS

Take control Lutz flow meters

Nowadays, it's precision that counts in laboratory and production environments alike. This holds especially true for handling fluids. Precise tracking of the quantities delivered not only assures the quality of the operations but it also makes sure that resources are handled economically.

You have the choice:

Plastic or stainless steel design

Type ST

for neutral liquids

such as water, heating oil, hydraulic oils and Diesel

Type SL

for aggressive acids and alkalis

such as hydrochloric acid, sulphuric acid and caustic soda

Type LM

for easily flammable solvents

such as ethanol, gasoline, isopropanol and kerosene

Type UN

for easily flammable and aggressive liquids

such as formic acid, acetic acid, tetrahydrofuran

Type VA I

for easily flammable and aggressive liquids









such as ether, styrol, xylene, nitric acid, tetrahydrofuran

The system grows with your demands

- ✓ For thin-bodied and viscous liquids
- ✓ Ex and Non-Ex
- ✓ With or without preselection
- ✓ Mobile or stationary
- ✓ Plastic or stainless steel

Please ask for our main catalogue

Characteristic data of the pump sets

Pump Sets	Density (kg/dm ³)	Viscosity (mPas)	Delivery Rate (l/min.)	Delivery Head (m wc)	Temperature (°C)	Immersion Depth (mm)	Pump Order No.	Set Order No.
Pump Set B2	1.3	500	40 (16)	5	60	650	0201-203	0201-223
			65 (20)	6.5		1000	0201-208	0201-228
Pump System Set B2	1.3	500*	40 (16)	5	60	650	0201-203	0201-210
			65 (20)	6.5		1000	0201-208	0201-211
Alkalis with motor MI 4	1.4	500	85 (50)	19	50	1000 1200	0205-105 0205-106	0205-101 0205-102
Alkalis with motor MA II 3	1.6	500	75 (45)	16	50	1000 1200	0205-125 0205-126	0205-121 0205-122
Acids with motor MI 4	1.4	500	85 (50)	19	50	1000 1200	0205-115 0205-116	0205-111 0205-112
Acids with motor MA II 3	1.6	500	75 (45)	16	50	1000 1200	0205-135 0205-136	0205-131 0205-132
Concentrated acids and alkalis with motor MA II 3	1.6	500	75 (45)	16	100	1000 1200	0205-215 0205-216	0205-211 0205-212
Concentrated acids and alkalis with motor MA II 5	1.8	800	80 (50)	17	100	1000 1200	0205-205 0205-206	0205-201 0205-202
Mineral oils with motor MI 4	1.4	500	85 (50)	19	100	1000 1200	0205-305 0205-306	0205-301 0205-302
Mineral oils with motor MD-1	1.8	850	90 (65)	20	100	1000 1200	0205-315 0205-316	0205-311 0205-312
Solvents with motor ME II 3	 1.6	350	95 (60)	14	100	1000 1200	0205-405 0205-406	0205-401 0205-402
Solvents with motor MD-2	 1.8	500	110 (65)	20	100	1000 1200	0205-425 0205-426	0205-421 0205-422
Hazardous fluids with motor ME II 3	 1.6	350	95 (60)	14	100	1000 1200	0205-405 0205-406	0205-411 0205-412
Hazardous fluids with motor MD-2	 1.8	500	110 (65)	20	100	1000 1200	0205-425 0205-426	0205-441 0205-442
Complete drum drainage for solvents with motor ME II 3	 1.6	500	77 (45)	14	100	1000 1200	0205-505 0205-506	0205-501 0205-502
Complete drum drainage for solvents with motor MD-2	 1.8	700	68 (40)	17	100	1000 1200	0205-525 0205-426	0205-521 0205-442
Complete drum drainage for hazardous fluids with motor ME II 3	 1.6	500	77 (45)	14	100	1000 1200	0205-505 0205-506	0205-511 0205-512
Complete drum drainage for hazardous fluids with motor MD-2	 1.8	700	68 (40)	17	100	1000 1200	0205-525 0205-526	0205-531 0205-532

Specified values are maximum values determined with water at 20°C, measured directly at the pressure joint. Viscosity determined with oil. *Viscosity with flow meter TR-50 PP max. 20 mPas. When using a nozzle the delivery rate is reduced to approximate values (see brackets).

Flow meter	Connection	Flow meter Order-No.
TR 120-PP	for connection onto pump tube	0213-010
TR 120-PP	for connection onto nozzle	0213-011
TR 120-PVDF	for connection onto pump tube	0213-020
TR 120-PVDF	for connection onto nozzle	0213-021

Accessories

Ex-plug, 3-pole IP 65, for AC current

Ex-plug, 3-pole STAHL IP 65, for AC current

Order No.

0336-536

0336-540

Lutz offers the optimum solution for professional Fluid Management

Production range



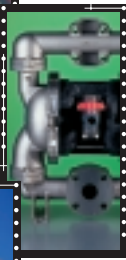
Drum and Container Pumps

Lutz drum and container pumps with their versatility help to provide a complete solution to your fluid management needs. High standard of quality ensures reliable performance for handling aggressive, corrosive and easy inflammable liquids.



Flow Meters

For metering many kinds of liquids. Easy presetting of required volume is effected by user-friendly keypad. The modular design and relays combine to make a flexible metering and batching system for Ex- and not-Ex-applications.



Double Diaphragm Pumps

The lube-free Lutz air operated double diaphragm pumps offer you the ideal solution when pumping viscous, corrosive, abrasive and flammable liquids. They are suitable for a variety of industrial applications. The Lutz air operated double diaphragm pumps guarantee non-stalling operation.



Centrifugal Pumps

Lutz centrifugal pumps in horizontal and vertical construction are especially used for pumping neutral and aggressive liquids as well as liquids containing solid particles. Lutz centrifugal pumps have proven reliability, ensuring safety and reducing maintenance downtime.



Dosing pumps · Chlorination · Dry feeder
Measuring and control technology · Centrifugal pumps
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