

Safety

Economy

Diversity

Environment



Dear Reader

For many years Lutz has enjoyed the satisfaction of providing our worldwide customers with products which have given years of service in many diverse industries and markets.

As we cater responsibly for your many needs we would like to state clearly our mission, which is to consistently provide you with products which not only meet your specific requirements, but which are safe, reliable and cost-effective.

In this brochure, we would like to share with you, our "Seasons" which we believe figuratively sum up our ideal to be always innovative, producing new solutions to meet your needs, whilst being constant in our endeavours to fulfil our mission.

We would like to thank all of our existing customers for their loyalty and trust in us which has given us a position of leadership, and those of you who would benefit from our products in the future.

Jürgen Lutz



Contents

Pump tube PP (polypropylene) for corrosive and neutral liquids	6
Pump tube PVDF (polyvinylidene fluoride) for highly corrosive chemicals and neutral liquids	8
Pump tube SS (stainless steel) for corrosive and neutral liquids	10
Pump tube Alu (aluminium) for neutral, non flammable liquids	14
Pump tube HC (Hastelloy C) for highly corrosive chemicals	16
Container pump B50	18
Eccentric screw pump Lutz HD-E	22
Eccentric screw pump B70V-SR 12.1 and 25.1	24
Eccentric screw pump B70V-SR 50.1	26
Eccentric screw pump B70V 12.1 and 25.1	28
Eccentric screw pump B70V 25.2 and 50.1	30
Eccentric screw pump B70V 75.1	32
Eccentric screw pump B70V 120.1	34
B70V-H-SR Sanitary 12.1, 25.1 and 50.1	36
B70V-H-D Sanitary 12.1, 25.1, 25.2 and 50.1	38
B70V-H-D Sanitary 75.1	40
Drum pump Lutz B2 Vario (polypropylene or stainless steel) for the laboratory and research sector	44
Pump tube RE-PP (polypropylene) for complete drum drainage of corrosive and neutral liquids	46
Pump tube RE-SS (stainless steel) for complete drum drainage of corrosive and neutral liquids	48
Pump tube MP-PP (polypropylene) for mixing and pumping of corrosive and neutral liquids	50
Pump tube MP-SS (stainless steel) for mixing and pumping of corrosive and neutral liquids	52
Lutz pump sets	54
Choice of motors	56
Accessories	59
Pump tube SS (stainless steel) for highly inflammable liquids	62
Pump tube HC (Hastelloy C) for highly inflammable chemicals	64
Pump tube RE-SS (stainless steel) for complete drum drainage of highly inflammable liquids	66
Pump tube MP-SS (stainless steel) for mixing and pumping of highly inflammable liquids	68
Tomp 1000 miles (camboo coor) for mining and partipling or right) minaminable riquide	
Table of dimensions drum and container pumps	70
Dimensional drawing Lutz B2 Vario	71
Dimensional drawing Lutz B2 MD-200/MD-200	71
Dimensional drawing container pump B50	71
Dimensional drawing Eccentric screw pump HD-E	72
Dimensional drawing eccentric screw pump B70V-SR / B70V-H-SR Sanitary 12.1-50.1	72
Dimensional drawing Eccentric screw pump B70V-D / B70V-H-D Sanitary 12.1-75.1	73
Dimensional drawing Eccentric screw pump B70V 120.1	73
Dimensional drawing Eccentric screw pump B70V-SR 12.1-75.1 (compressed air)	74
Dimensional drawing of flanges for eccentric screw pump B70V	74
Dimensions of compressed air motors for eccentric screw pump B70V	74
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From the bucket to the pump



Transferring corrosive, flammable or toxic liquids presents its own challenges to personal safety and the environment.

At Lutz, we believe you will be able to find your optimum solution among the range of products which have been developed specifically to overcome the dangers and disadvantages of decanting such liquids.

1954

The company is founded by Karl Lutz.

1963

Explosion-proof motor for drum pumps, approved by the PTB*, Braunschweig.

1972

The product innovation – a sealless pumping unit.

1987

The first pumping unit worldwide for complete drum drainage.



1988

The new MA/ME generation of motors: Safety standards that are state of the art even today.

1990

EMIGA emission-proof drum adapter for enhanced safety and health protection at the work place.

1990

The first compressed air motor worldwide in a flameproof enclosure with an explosion-protection classification of Ex d IIC T6.

1993

Modular flow meter system for efficiency and accurate measurement.

1994

Compressed-air-operated oil-free double diaphragm pumps extend the range of products.

2000

New development of a container pump for a safe transfer of chemicals.



2000

New development of a flameproof relay module for flow meters.

2001

Complete pump sets provide enhanced service and a high degree of customer-friendliness.

2001

Centrifugal pumps – easy circulation even in heavy-duty applications.

2001

Certification of all the motors, pumping units and flow meters for compliance with ATEX.

2004

Flow meter system HDO for thin bodied to highly viscous liquids.

2006

Complete pump systems for the transfer of alternative fuels and additives from drums and containers.



2007

Lutz B2 Vario pump for the laboratory and research sector.

2010

Battery powered laboratory pump Lutz B1 for convenient and safe transfer of small liquid amounts.

2010

Compressed air motor MD-200/MD-300 for the Lutz B2 Vario family.

2011

Lutz B70V Sanitary pump, according to the 3-A Sanitary Standard. For optimal pumping of thin-bodied to highly viscous media.



2012

The new generation of flow meters. The first flow meter with a touch screen display and background lighting display and usability, multilingual interface and compact design.

^{(*}The Physikalisch-Technische Bundesanstalt (PTB), Braunschweig and Berlin, is the National Institute of natural and engineering sciences and the highest technical authority for metrology and physical safety engineering in the Federal Republic of Germany)







Environment

Getting started on any project demands a little concentration, but once the focus is there life becomes easier and with the right tools, the job is quickly done. No more spillage and waste. No claims against the environment, no unnecessary accidents.

80% of the transfer jobs can be effected with our basic materials which cover neutral, aggressive and highly corrosive liquids. Our separate corrosion guide provides a simple and quick way to determine the right pump material for your liquid.

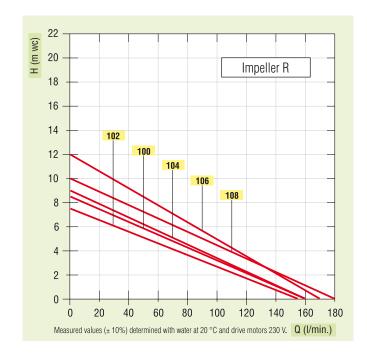
Pump tube PP (polypropylene)

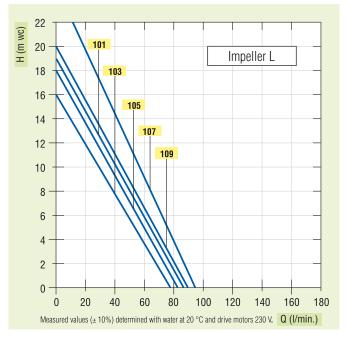


Materials (coming into contact with the pumped medium)

	PP-MS	PP-SL
Housing:	PP/PVDF	PP/PVDF
Impeller:	PP	PP
Seals:	Viton®	none
Mechanical seal:	Carbon, SiC, Viton®, HC-4 (2.4610)	none
Bearing:	ETFE/PTFE	ETFE/PTFE
Drive shaft:	Stainless Steel (1.4571) or HC-4 (2.4610)	Stainless Steel (1.4571) or HC-4 (2.4610)

Viton® is a registered trademark of DuPont Performance Elastomers.





Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube PP (polypropylene)

for corrosive and neutral liquids

Pump t	ube					PP-MS		PP	-SL	Product detai
Type of im	peller					R	L	R	L	V
	1 / 2 (acc. to ATI	FX)				no	no	no	no	
	tube diamet			up to mm		41	41	41	41	7
	re of medium			up to °C		50	50	50	50	
Material:				Pump tube		PP	PP	PP	PP	
				Impeller		PP	PP	PP	PP	
Hose conn	nection:			Nominal diam	eter mm	19-32	19-32	19-32	19-32	
				Outer thread		G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	
Length: 7	700 mm*** s	shaft SS		Order No.		0103-500	0103-504	0110-300	0110-304	
Length: 10)00 mm*** s	shaft SS		Order No.		0103-501	0103-505	0110-301	0110-305	
_ength: 12	200 mm*** s	haft SS		Order No.		0103-502	0103-506	0110-302	0110-306	
_ength: 7	700 mm*** s	shaft HC		Order No.		0103-400	0103-404	0110-200	0110-204	<u> </u>
-	000 mm*** s			Order No.		0103-401	0103-405	0110-201	0110-205	, <mark>, ,</mark>
•	200 mm*** s			Order No.		0103-402	0103-406	0110-202	0110-206	
-	100 mm*** s			Order No.		-	_		0110-208	
	500 mm*** s			Order No.		_	_		0110-209	
	600 mm*** s			Order No.		_	_		0110-210	
	700 mm*** s			Order No.		_	_		0110-211	
-	00 mm*** s			Order No.		_	_		0110-211	
Choice	of motors	s		Operating	data					
	MI-4	MI-4-E		Characteristic		100	101	100	101	
	-	with speed		Delivery rate*		160	87	160	87	*
	500 W	controller		Delivery head		8.5	19	8.5	19	
Output Valtaga:	500 W 230 V	500 W 230 V		Viscosity**	up to mPas	150	500	150	500	STREET, SQUARE,
/oltage: Order No.		0030-001		Density**** Weight (kg)	up to kg/dm ³ motor + pump tube	1.1 3.9	1.4 3.9	1.1 3.9	1.4 3.9	
51 doi 140.					· ·					
	MAII3			Characteristic		102	103	102	103	
Output:	460 W	460 W		Delivery rate*		155	78	155	78	Luff.
Voltage:	230 V	230 V		Delivery head'	•	7.5	16	7.5	16	
LVR:	no	yes		Viscosity**	up to mPas	150	500	150	500	
Order No.	0060-000	0060-008		Density**** Weight (kg)	up to kg/dm ³ motor + pump tube	1.2 5.7	1.6 5.7	1.2 5.7	1.6 5.7	
ruoi ivo.	0000 000	0000 000		Worght (kg)	motor + pump tabe	0.1	0.1	0.1	0.1	
	MA II 5	MA II 5	MAII5S	Characteristic		104	105	104	105	
Output:	575 W	575 W	575 W	Delivery rate*		160	83	160	83	
/oltage:	230 V	230 V	230 V	Delivery head'		9	18	9	18	
_VR:	no	yes	no	Viscosity**	up to mPas	350	800	350	800	
Order No.	0060 004	0060-009	acid-proof	Density**** Weight (kg)	up to kg/dm³	1.3 6.5	1.8 6.5	1.3 6.5	1.8 6.5	
Jiuei IVO.		0000-009	0000-091	weight (kg)	motor + pump tube	0.5	0.5	0.5	0.0	
	MA II 7	705		Characteristic		106	107	106	107	
Output:	795 W	795 W		Delivery rate*		170	95	170	95	Low-voltage release (LVR):
/oltage:	230 V	230 V		Delivery head?		12	25	12	25	Prevents the pump from startin
_VR:	no	yes		Viscosity**	up to mPas	350	800	350	800	up again without warning after power failure. It's recommende
Order No.	0060-002	0060-010		Density**** Weight (kg)	up to kg/dm³ motor + pump tube	1.4 7.7	1.9 7.7	1.4 7.7	1.9 7.7	when pumping hazardous liqui
	MD-1	MD-2		Characteristic	CURVA DO	108	109	108	109	
Output:	400 W	400 W		Delivery rate*		180	90	180	90	F 7
	100 44	100 W		Delivery head'		100	20	100	20	
meranna										in a least
Operating Pressure:	6 har	6 har		Viscosity**	un to mPas	hill	XhII	nuu	מכונ	The second second
Pressure:	6 bar	6 bar		Viscosity** Density****	up to mPas up to kg/dm ³	600 1.3	850 1.8	600 1.3	850 1.8	11: 11:

^{*} Determined with water at 20 °C ** Determined with oil

^{***} Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

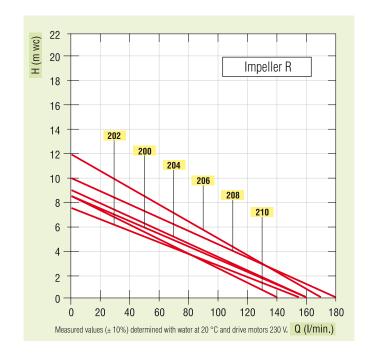
Pump tube PVDF (polyvinylidene fluoride)

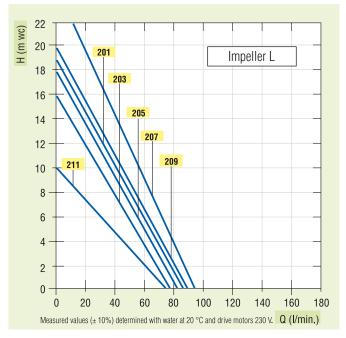


Materials (coming into contact with the pumped medium)

PVDF-MS	PVDF-SL
PVDF	PVDF
ETFE	ETFE
Viton®	none
Carbon/SiC, Viton®, HC-4 (2.4610)	none
ETFE/PTFE	ETFE/PTFE
HC-4 (2.4610)	HC-4 (2.4610)
	PVDF ETFE Viton® Carbon/SiC, Viton®, HC-4 (2.4610) ETFE/PTFE

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Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube PVDF (polyvinylidene fluoride)

for highly corrosive chemicals and neutral liquids

Pump tube					PVDI	F-MS	MS PVDF-SL		Product detail	
Type of imp	peller					R	L	R	L	2
	/ 2 (acc. to ATE	EX)				no	no	no	no	
	tube diamete			up to mm		41	41	41	41	
	re of medium			up to °C		100	100	100	100	
Material:	io oi illoululli			Pump tube		PVDF	PVDF	PVDF	PVDF	
matoriai.				Impeller		ETFE	ETFE	ETFE	ETFE	
Hose conn	ection:			Nominal diame	ter mm	19-32	19-32	19-32	19-32	
				Outer thread		G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	
Length: 7	'00 mm***			Order No.		0123-400	0123-404	0122-200	0122-204	
Length: 10	00 mm***			Order No.		0123-401	0123-405	0122-201	0122-205	
Length: 12	00 mm***			Order No.		0123-402	0123-406	0122-202	0122-206	
Choice	of motors	3		Operating	data					
	MI-4	MI-4-E		Characteristic o	curve no.	200	201	200	201	
	-	with speed		Delivery rate*	up to I/min.	160	87	160	87	
0.1.	500.11	controller		Delivery head*		8.5	19	8.5	19	1
Output:	500 W 230 V	500 W 230 V		Viscosity**	up to mPas	150	500	150	500	THE R. P. LEWIS CO., LANSING, MICH.
Voltage: Order No.	0030-000			Density**** Weight (kg)	up to kg/dm³ motor + pump tube	1.1 4.5	1.4 4.5	1.1 4.5	1.4 4.5	NAME OF TAXABLE PARTY.
Oluei No.	0000-000	0000-001		Weight (kg)	motor + pump tube	4.5	4.5	4.0	4.0	
	MAII3			Characteristic o	curve no.	202	203	202	203	
Output:	460 W	460 W			up to I/min.	155	78	155	78	
Voltage:	230 V	230 V		Delivery head*		7.5	16	7.5	16	<u>tutz</u>
LVR:	no	yes		Viscosity**	up to mPas	150	500	150	500	
Order No.	0060-000	UUEU-UUS		Density**** Weight (kg)	up to kg/dm³ motor + pump tube	1.2 6.3	1.6 6.3	1.2 6.3	1.6 6.3	
Oluei No.				Weight (kg)	motor + pump tube	0.5	0.5	0.5	0.5	
	MA II 5	MA II 5	MAII5S	Characteristic o	curve no.	204	205	204	205	
Output:	575 W	575 W	575 W		up to I/min.	160	83	160	83	
Voltage:	230 V	230 V	230 V	Delivery head*		9	18	9	18	
LVR:	no	yes	no acid proof	Viscosity** Density****	up to mPas up to kg/dm ³	350 1.3	800 1.8	350 1.3	800 1.8	
Order No.	0060-001	0060-009		Weight (kg)	motor + pump tube	7.1	7.1	7.1	7.1	
	MAII 7			Characteristic o		206	207	206	207	
Output:	795 W	795 W		Delivery rate*	up to I/min.	170	95	170	95	Low-voltage release (LVR):
Voltage: LVR:	230 V no	230 V yes		Delivery head* Viscosity**	up to m wc up to mPas	12 350	25 800	12 350	25 800	Prevents the pump from starting up again without warning after a
LVII.	110	you		Density****	up to IIIPas up to kg/dm³	1.4	1.9	1.4	1.9	power failure. It's recommended
Order No.	0060-002	0060-010		Weight (kg)	motor + pump tube	8.3	8.3	8.3	8.3	when pumping hazardous liquids
	MD-1	MD-2		Characteristic o	curve no.	208	209	208	209	
Output:	400 W	400 W		Delivery rate*	up to I/min.	180	90	180	90	
Operating				Delivery head*	•	10	20	10	20	
Pressure:	6 bar	6 bar		Viscosity**	up to mPas	600	850	600	850	1000
•				Density****	up to kg/dm³	1.3	1.8	1.3	1.8	<u></u>
Order No.	0004-087	0004-088		Weight (kg)	motor + pump tube	3.2	3.2	3.2	3.2	
	B4/GT			Characteristic o	curve no.	210	211	210	211	
Output:	750 W	750 W		Delivery rate*	up to I/min.	140	75	140	75	
Voltage:	230/400 V	230/400 V		Delivery head*		8.5	10	8.5	10	
Protection				Viscosity**	up to mPas	400	400	400	400	1000
switch:	no	yes		Density****	up to kg/dm³	2.0	2.2	2.0	2.2	
Uruer No.	0004+019	UUU4+Ub/		Weight (kg)	motor + pump tube	11.5	11.5	11.5	11.5	

^{*} Determined with water at 20 °C ** Determined with oil

^{***} Special lengths 200–2500 mm on request

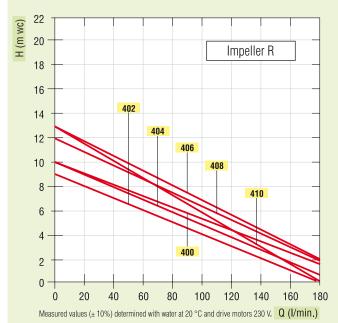
^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

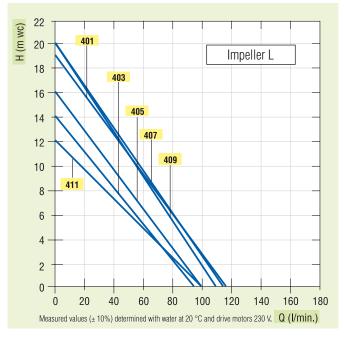
Pump tube SS (stainless steel)



Materials (coming into contact with the pumped medium)

SS-MS	SS-SL
Stainless steel (1.4571)	Stainless steel (1.4571)
ETFE	ETFE
Viton®	none
Carbon, ceramic, Viton®, stainless steel	none
Pure carbon	Pure carbon
Stainless steel (1.4571)	Stainless steel (1.4571)
	Stainless steel (1.4571) ETFE Viton® Carbon, ceramic, Viton®, stainless steel Pure carbon





Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube SS (stainless steel)

for corrosive and neutral liquids

Pump tube						SS-MS		SS-SL		Product detail
Type of impeller						R	L	R	L	W.
Category 1 / 2 (acc. to ATEX)						yes	yes	yes	yes	
Immersion	tube diamete	er:		up to mm		41	41	41	41	71
Temperatui	re of medium	:		up to °C		100	100	100	100	
Material:				Pump tube		1.4571	1.4571	1.4571	1.4571	ll ll
				Impeller		ETFE	ETFE	ETFE	ETFE	
Hose conn	ection:			Nominal diame	ter mm	19-32	19-32	19-32	19-32	
				Outer thread		G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	
Length: 7	00 mm***			Order No.		0151-000	0151-003	0150-000	0150-003	
Length: 10	00 mm***			Order No.		0151-001	0151-004	0150-001	0150-004	
Length: 12	00 mm***			Order No.		0151-002	0151-005	0150-002	0150-005	
Length: 14	00 mm***			Order No.		-	-	0150-113	0150-108	
Length: 15	00 mm***			Order No.		-	-	0150-114	0150-109	
Length: 16	00 mm***			Order No.		-	-	0150-115	0150-110	
Length: 17	00 mm***			Order No.		-	-	0150-116	0150-111	
Length: 20	00 mm***			Order No.		-	-	0150-117	0150-112	
Choice	of motors	8		Operating	data					
	MI-4	MI-4-E		Characteristic o	rurve no	400	401	400	401	
	-	with speed			up to I/min.	210	117	210	117	
		controller		Delivery head*		10	19	10	19	一
Output:	500 W	500 W		Viscosity**	up to mPas	350	500	350	500	1
Voltage:	230 V	230 V		Density****	up to kg/dm³	1.1	1.4	1.1	1.4	
Order No.	0030-000	0030-001		Weight (kg)	motor + pump tube	5.7	5.7	5.7	5.7	
	MAII3			Characteristic o	curve no.	402	403	402	403	
Output:	460 W	460 W		Delivery rate*	up to I/min.	178	95	178	95	
Voltage:	230 V	230 V		Delivery head*	up to m wc	9	14	9	14	<u>tuta</u>
LVR:	no	yes		Viscosity**	up to mPas	200	350	200	350	
0 1 11				Density****	up to kg/dm³	1.2	1.6	1.2	1.6	
Order No.	0060-000	0060-008		Weight (kg)	motor + pump tube	7.5	7.5	7.5	7.5	
	MA II 5	MA II 5	MAII5S	Characteristic of	curve no.	404	405	404	405	
Output:	575 W	575 W	575 W	Delivery rate*		190	100	190	100	
Voltage:	230 V	230 V	230 V	Delivery head*		10	16	10	16	
LVR:	no	yes	no acid-proof	Viscosity** Density****	up to mPas up to kg/dm ³	550 1.3	700 1.8	550 1.3	700 1.8	
Order No.	0060-001	0060-009		Weight (kg)	motor + pump tube	8.3	8.3	8.3	8.3	
	MAII7				nurvo no				407	
Output:	795 W	795 W		Characteristic of Delivery rate*	up to I/min.	406 210	407 115	406 210	115	
Voltage:	230 V	230 V			up to m wc	13	20	13	20	Low-voltage release (LVR): Prevents the pump from starting
LVR:	no	yes		Viscosity**	up to mPas	400	500	400	500	up again without warning after a
0 1 11				Density****	up to kg/dm³	1.4	1.9	1.4	1.9	power failure. It's recommended when pumping hazardous liquids.
Order No.	0060-002			Weight (kg)	motor + pump tube	9.5	9.5	9.5	9.5	•
0.1	MD-1	MD-2		Characteristic o		408	409	408	409	
Output:	400 W	400 W		Delivery rate*	up to I/min.	210	110	210	110	
Operating Pressure:	6 bar	6 bar		Delivery head* Viscosity**	up to m wc up to mPas	12 400	20 500	12 400	20 500	
i iossuit.	o bui	o bui		Density****	up to tilras up to kg/dm³	1.3	1.8	1.3	1.8	112
Order No.				motor + pump tube	4.4	4.4	4.4	4.4		
	B4/GT			Characteristic o	curve no.	410	411	410	411	
Output:	750 W	750 W		Delivery rate*	up to I/min.	180	100	180	100	
Voltage:	230/400 V	230/400 V			up to m wc	13	12	13	12	4 / (() ()
Protection	20	1400		Viscosity**	up to mPas	400	500	400	500	
Switch:	no	yes		Density****	up to kg/dm³	2.0	2.2	2.0	2.2	T I I I
Order No.	0004+019	0004+067		Weight (kg)	motor + pump tube	13.7	13.7	13.7	13.7	

^{*} Determined with water at 20 °C *** Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

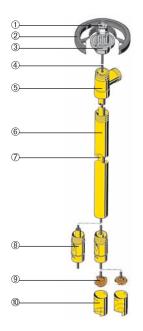
Don't be stuck in one place



The modular concept behind the construction of the Lutz drum pump, provides not only for fixed installations, but also assures a great degree of flexibility in movement. The hand wheel makes the pump easy to carry and provides a simple but quick means of coupling and un-coupling the motor

Just ten parts in the construction allow the pumps to be service and user friendly. Interchangeability of parts and no special tools reduce downtime to a bare minimum.





- ① Coupling
- 2 Hand wheel
- 3 Bearing housing
- 4 Shaft
- **5 Outrun piece**
- 6 Outer tube
- **7** Inner tube
- ® Cartridge bearing
- 9 Impeller
- **10** Pump foot





Diversity

The heat is on. Different jobs may demand different tools or a different approach to provide a satisfactory solution to your transfer problem. Here we provide exceptional materials and exceptional pumps to cover those oily, greasy, sticky, shear sensitive and highly viscous liquids. From intermittent to round-the-clock transfer, we have a fluid management solution at hand, never mind the industry you are in.

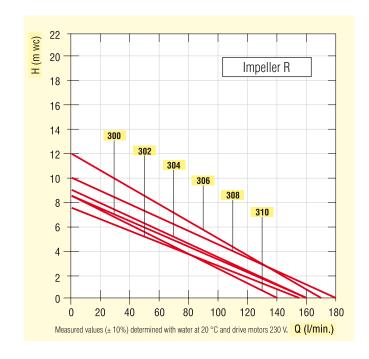
Pump tube Alu (aluminium)

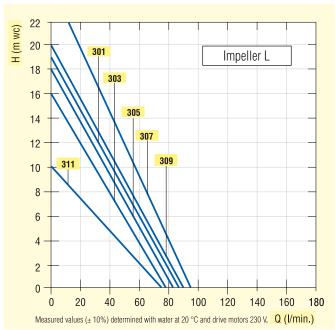


Materials (coming into contact with the pumped medium)

	Alu-MS	Alu-SL
Housing:	Alu, PVDF	Alu, PVDF
Impeller:	ETFE	ETFE
Seals:	Viton®	none
Mechanical seal:	Carbon, SIC, Viton®, HC-4 (2.4610)	none
Bearing:	ETFE	ETFE
Drive shaft:	Stainless Steel (1.4571)	Stainless Steel (1.4571)

Viton® is a registered trademark of DuPont Performance Elastomers.





Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube Alu (aluminium)

for neutral, non flammable liquids

Pump tube						Alu-	ı-MS Alu		ı-SL	Product detail
Type of imp	peller					R	L	R	L	-
Category 1 / 2 (acc. to ATEX)					no	no	no	no		
	tube diamete			up to mm		41	41	41	41	11
	re of medium			up to °C		100	100	100	100	
Material:	o or modium			Pump tube		Alu	Alu	Alu	Alu	
iviatoriai.				Impeller		ETFE	ETFE	ETFE	ETFE	
Hose conne	ection:			Nominal diame	ter mm	19-32	19-32	19-32	19-32	
				Outer thread		G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	
Length: 7	00 mm***			Order No.				0132-300		
Length: 10				Order No.				0132-301		
Length: 120	00 mm***			Order No.		0133-502	0133-506	0132-302	0132-306	
Length: 150				Order No.		-	-	-	0132-309	- 4
· ·										ll l
Choice	of motors	S		Operating	data					
	MI-4	MI-4-E		Characteristic o	ourve no	300	301	300	301	
	-	with speed		Delivery rate*		160	301 87	160	87	
		controller		Delivery hate Delivery head*		8.5	19	8.5	19	
Output:	500 W	500 W		Viscosity**	up to mPas	150	500	150	500	100
Voltage:	230 V	230 V		Density****	up to kg/dm³	1.1	1.4	1.1	1.4	10000
Order No.	0030-000	0030-001		Weight (kg)	motor + pump tube	4.3	4.3	4.3	4.3	
	MAII3			Characteristic	nuruo no	202	202	202	202	
Output:	460 W	460 W		Characteristic of Delivery rate*	up to I/min.	302 155	303 78	302 155	303 78	
Voltage:	230 V	230 V		Delivery hate Delivery head*		7.5	16	7.5	16	<u>tutz</u>
LVR:	no	yes		Viscosity**	up to m wc	150	500	150	500	
	110	,00		Density****	up to kg/dm ³	1.2	1.6	1.2	1.6	
Order No.	0060-000	0060-008		Weight (kg)	motor + pump tube	6.1	6.1	6.1	6.1	
	MA II 5	MA II 5	MAII 5 S	Characteristic of	nuruo no	304	305	304	305	
Output:	575 W	575 W	575 W	5	up to I/min.	160	83	160	83	
Voltage:	230 V	230 V	230 V	Delivery head*		9	18	9	18	
LVR:	no	yes	no	Viscosity**	up to mPas	350	800	350	800	
		,	acid-proof	Density****	up to kg/dm³	1.3	1.8	1.3	1.8	
Order No.	0060-001	0060-009	0060-091	Weight (kg)	motor + pump tube	6.9	6.9	6.9	6.9	
	MAII7			Characteristic o	curve no.	306	307	306	307	
Output:	795 W	795 W		Delivery rate*	up to I/min.	170	95	170	95	Low voltage release (LVD)
Voltage:	230 V	230 V		Delivery head*	up to m wc	12	25	12	25	Low-voltage release (LVR): Prevents the pump from
LVR:	no	yes		Viscosity**	up to mPas	350	800	350	800	starting up again without
				Density****	up to kg/dm³	1.4	1.9	1.4	1.9	warning after a power failure. It's recommended when
Order No.	0060-002	0060-010		Weight (kg)	motor + pump tube	8.1	8.1	8.1	8.1	pumping hazardous liquids
	MD-1	MD-2		Characteristic o	curve no.	308	309	308	309	
Output:	400 W	400 W		Delivery rate*	up to I/min.	180	90	180	90	
Operating				,	up to m wc	10	20	10	20	
Pressure:	6 bar	6 bar		Viscosity**	up to mPas	600	850	600	850	lico)
Order No.			Density**** Weight (kg)	up to kg/dm³ motor + pump tube	1.3 3.0	1.8 3.0	1.3 3.0	1.8 3.0	<u> </u>	
	B4/GT			Characteristic	nurvo no	210	211	210	211	
Output:	750 W	750 W		Characteristic of Delivery rate*	up to I/min.	310 140	311 75	310 140	311 75	
Voltage:	230/400 V	230/400 V		- · · · · · · · · · · · · · · · · · · ·	up to i/min.	8.5	10	8.5	10	
vollage.	200/700 V	200/700 V		Viscosity**	up to mPas	400	400	400	400	
Protection										
Protection switch:	no	yes		Density****	up to kg/dm³	2.0	2.2	2.0	2.2	0 4

^{*} Determined with water at 20 °C ** Determined with oil

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^{***} Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

Pump tube HC (Hastelloy C)



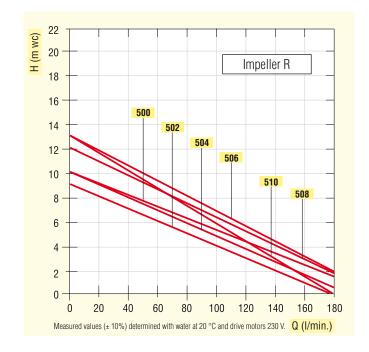


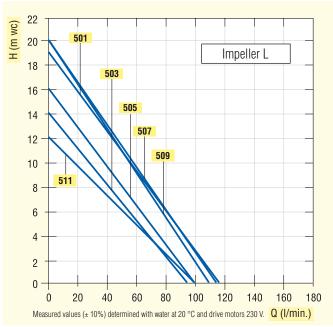
Note: The pump tube in HC is approved for use with flammable liquids. For the correct motor selection see page 56.

Materials (coming into contact with the pumped medium)

	HC-SL	
Housing:	HC-22 (2.4602)	
Impeller:	ETFE	
Seals:	Viton® (FEP coated)	
Bearing:	ETFE, Carbon	
Drive shaft:	HC-4 (2.4610)	

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Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube HC (Hastelloy C)

for highly corrosive chemicals

Pump tube		НС	HC-SL			
Type of impeller		R	L			
Category 1 / 2 (acc. to ATEX)		yes	yes			
Immersion tube diameter:	up to mm	42	42			
Temperature of medium:	up to °C	120	120			
Material:	Pump tube	HC	HC			
	Impeller	ETFE	ETFE			
Hose connection:	Nominal diameter mm	19-32	19-32			
	Outer thread	G 1 1/4	G 1 1/4			
Length: 1000 mm***	Order No.	0162-201	0162-204			
Length: 1200 mm***	Order No.	0162-202	0162-205			
				ll ll		
				H		

Choice of	f motors		Operating	data			
Output: 5 Voltage: 2	MI-4 MI-4 - with s - contr 500 W 500 V 230 V 230 V 0030-000 0030	speed roller W	Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	urve no. up to I/min. up to m ws up to mPas up to kg/dm³ Motor + pump tube	500 210 10 350 1.1 7.2	501 117 19 500 1.4 7.2	
Output: 4 Voltage: 2 LVR.: n	MA II 3 460 W 460 V 230 V 230 V no yes	V	Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	curve no. up to I/min. up to m ws up to mPas up to kg/dm³ Motor + pump tube	502 178 9 200 1.2 9.0	503 95 14 350 1.6 9.0	
Output: 5 Voltage: 2 LVR.: n	MA II 5 MA I 575 W 575 V 230 V 230 V no yes	N 575 W	Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	urve no. up to I/min. up to m ws up to mPas up to kg/dm³ Motor + pump tube	504 190 10 550 1.3 9.8	505 100 16 700 1.8 9.8	
Output: 7 Voltage: 2 LVR.: n	MA II 7 795 W 795 V 230 V 230 V no yes	V	Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min. up to I/min. up to m ws up to mPas up to kg/dm³ Motor + pump tube	506 210 13 400 1.4 11.0	507 115 20 500 1.9 11.0	Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. It's recommended when pumping hazardous liquids.
Output: 4 Operating- pressure: 6	MD-1 MD-3 400 W 400 V 6 bar 6 bar 0004-087 0004	N	Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	508 210 12 400 1.3 5.9	509 110 20 500 1.8 5.9	
Output: 7 Voltage: 2 Protection switch: n	B4/GT 750 W 750 V 230/400 V 230/4 no yes 0004+019 0004	400 V	Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	curve no. up to I/min. up to m ws up to mPas up to kg/dm³ Motor + pump tube	510 180 13 400 2.0 15.2	511 100 12 500 2.2 15.2	

^{*} Determined with water at 20 °C
** Determined with oil

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^{***} Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

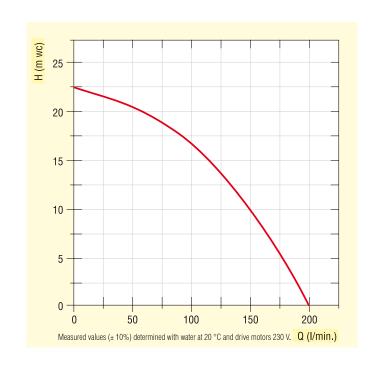
Container pump B50



Materials (coming into contact with the pumped medium)

Container pump	B50 PP/HC	B50 PP/SS
Pump tube:	Polypropylene (PP)	Polypropylene (PP)
Stator:	PPO / PPE	PPO / PPE
Mechanical seal:	Carbon / SiC / HC	Carbon / SiC / HC
Secondary seal:	Viton® (EPDM)	Viton® (EPDM)
Drive shaft:	HC-4 (2.4610)	Stainless steel (1.4571)

Viton® is a registered trademark of DuPont Performance Elastomers.



For bulk transfer of chemicals

Simplicity and maximum working safety

Bulk chemical transfer or filling is made light work of with the B50 with flows up to 200 l/min. and quick installation.

The B50 is constructed along the lines of a drum pump in order to maintain the proven features. These include: long life, reliability, low maintenance, reduced downtime, process and transfer time savings and not least enhanced safety and efficiency.

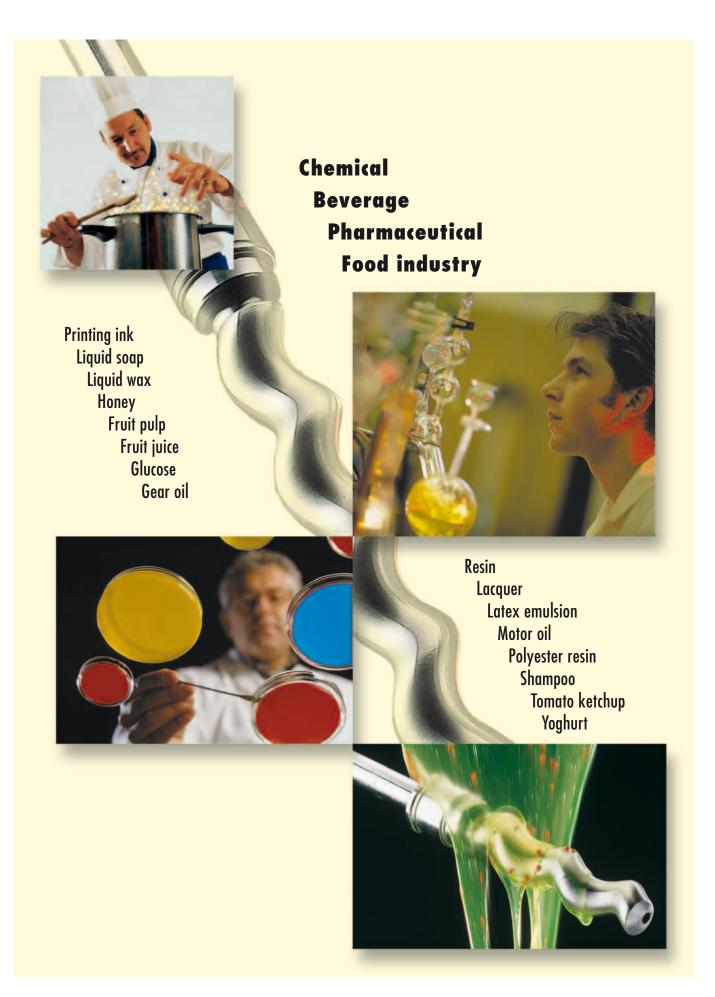
The vertically mounted pump runs at low speed with a direct coupled motor. The motor is secured with the Lutz hand wheel for quick assembly and disassembly, and with power to cover densities from 1.0 to 1.9 kg/dm³ and viscosities up to 100 mPas without penalty. The pump is positively mounted into the container with a specially designed adaptor.

Container pump		B50 PP/HC	B50 PP/SS	Product det
Category 1 / 2 (acc. to ATEX)		no	no	-
Immersion tube diameter:	max. mm	100	100	-3
Temperature of medium:	max. °C	40	40	31
Material:	Pump tube Impeller/diffuser material Drive shaft	PP PPO / PPE Hastelloy C (2.4610)	PP PPO / PPE Stainless steel (1.4571)	T
Outrun piece:		G 1 1/2 Outer thread	G 1 1/2 Outer thread	
Length: 1100 mm	Order No.	0180-001	0180-501	

Choice (of motors		Operating data			
Single ph	ase motor					
Output:	0.55 kW	0.75 kW	Delivery rate* up to I/min.	200	200	1100
Density:	up to 1.3 kg/dm ³	up to 1.8 kg/dm ³	Delivery head* up to m wc	22	22	
Speed:	2800 1/min.	2700 1/min.	Viscosity up to mPas	100	100	
Prot. class:	IP 54	IP 54	Weight (kg) Motor + pump tub	e 10.5 – 13.5	10.5 - 13.5	"(Tit"
Order No.	0180-030	0180-031				u.

*Determined with water at 20 °C

Through thick and thin









High viscosity pumps

Viscous liquids often present a challenge in trying to transfer them. To share this task with you, we have a range of progressive cavity pumps which covers viscosities from 500 mPas to 120,000 mPas.

Our pumps have been designed along with a modular concept that provides a maximum of flexibility with a minimum of fuss. Simplicity and ease of handling are inherent characteristics. Choice of motors electric or pneumatic, shaft, sealing method and stators provide the best for user-friendliness.

Flows from 12 to 120 l/min. at pressures up to 10 bar make easy work of emptying drums and containers.

All pumps can be quickly disassembled and cleaned, an essential requirement for the food, beverage, cosmetic and pharmaceutical industries.

Running at relatively low speeds, shear sensitive liquids and liquids containing solids present no problem. Likewise sticky liquids such as molasse, glucose and honey.

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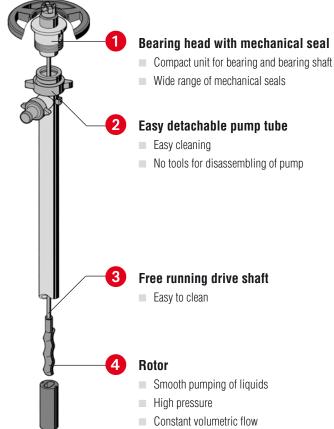
Eccentric screw pump Lutz HD-E



Materials (coming into contact with the pumped medium)

	HD-E
Pump tube:	Stainless steel (1.4571)
Stator:	PTFE
Mechanical seal:	Carbon/CrMo-casting (bellows constr.)
Secondary seal:	Viton®
Drive shaft:	Stainless steel (1.4571)

Viton® is a registered trademark of DuPont Performance Elastomers.



Lutz Eccentric screw pump HD-E

for viscosities from 500 to 4000 mPas



The intelligent solution for the pumping of medium viscous liquids

High efficiency, handy, low weight and easily disassembled for easy cleaning make the Lutz HD-E a practical drum pump system especially for medium viscous liquids.

It is suitable for pumping acid and basic liquids, oils, used oil, waste disposal liquids, colours, foodstuffs, cosmetics and creams.

- ✓ light and compact
- ✓ simple and easily dismantled
- easy to clean
- ✓ suitable for continuous operation
- practical Lutz hand wheel for motor separation and for carrying
- ✓ smooth flow
- ✓ for thin and thick liquids
- constant volumetric flow

Pump tube		HD-E	Product detail
Category 1 / 2 (acc. to ATEX)		no	
Immersion tube diameter:	up to mm	41	1
Temperature of medium:	up to °C	100	
Material:	Pump tube Stator	Stainless steel (1.4571) PTFE	
Hose connection:	Nominal diameter mm Outer thread	19-32 G 1 1/4	
Length: 1000 mm	Order-No.	0155-010	

Choice of moto	rs	Operating data		
Single phase moto Output:	0.55 kW	Delivery rate up to I/min.	20	
Voltage: Speed: Protection class:	230 V 1500 1/min. IP 54	Delivery head up to bar Viscosity up to mPas Weigth(kg) motor + pump tube	500-4000 11.5	
Order No.	0155-032			-

Eccentric screw pump B70V-SR, B70V HD-SR 12.1 and 25.1



Materials (coming into contact with the pumped medium)

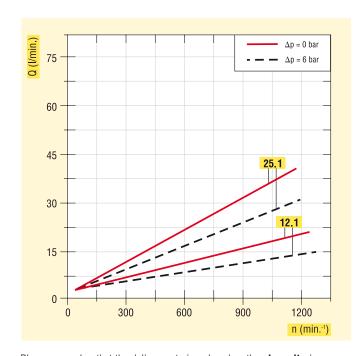
B70V-SR 12.1/25.1	B70V HD-SR 12.1/25.1
Stainless steel (1.4571)	Stainless steel (1.4571)
Stainless steel (1.4571)	Stainless steel (1.4571)
FPM (Viton®)	FPM (Viton®)
Carbon/CrMo-Casting, Viton®	WC/WC/EPDM
PTFE Soft packing	-
safe for use with foodstuffs	
Stainless steel (1.4571)	Stainless steel (1.4571)
NBR light, Viton®, PTFE	PTFE
	12.1/25.1 Stainless steel (1.4571) Stainless steel (1.4571) FPM (Viton®) Carbon/CrMo-Casting, Viton® PTFE Soft packing safe for use with foodstuffs Stainless steel (1.4571)

Viton® is a registered trademark of DuPont Performance Elastomers.

Important Information!

When pumping in "Zone O" areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.

Viscosity range from aqueous to fluidity range.



Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Lutz Eccentric screw pump B70V-SR 12.1 and 25.1

for viscosities from 1 - 40,000 mPas

Pump tube	9				B70	V-SR			Prod
Size			12.1	12.1	12.1	25.1	25.1	25.1	
	Packing gland Mechanical seal	(St) (MS)	MS	MS	St	MS	MS	St	
	Torsion shaft Universal joint sl	(TS) haft (UJ)	TS	UJ	UJ	TS	UJ	UJ	
Delivery rate*		up to I/min.	12	12	12	25	25	25	
Delivery head'	*	up to bar	6	6	6	8	8	8	
Temp. of medi	ium**	up to °C	140	140	140	140	140	140	
Material pump	o tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	
Immersion tub	oe diameter	mm	54	54	54	54	54	54	
Pressure joint		Outer thread	G 1 1/2						
Weight		kg	7	7	7	7	7	7	
Length***		mm	1000	1000	1000	1000	1000	1000	
Stator NBR lig (T max. 80 °C)	jht	Order No.	-	-	-	0174-131	0174-141	0174-121	
Stator Viton (T max. 140 °C)		Order No.	-	-	-	0174-132	0174-142	0174-122	
Stator PTFE (T max. 140 °C)		Order No.	0174-014	0174-024	0174-004	0174-134	0174-144	0174-124	
B70V HD-SR Stator PTFE (T		Order No.		0174-026			0174-146		

Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator

Combination of packing gland and torsion shaft on request.

** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)

*** Special length 500 - 2000 mm on request (version with joint shaft only)

Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX)



for pumping inflammable liquids of the explosion group IIA (B70V-SR) or IIB (B70V HD-SR) and temperature class T4

Choice of motors

Universal motors non-ex. proof	MI-4	MI-4-E	MAII3	MA II 5	MA II 7
Type	500 W, 230 V	500 W, 230 V	460 W, 230 V	575 W, 230 V	795 W, 230 V
Protection class/Weight	IP 24 2.8 kg	IP 24 2.8 kg	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg
	-	with speed contr.			
Order No. (without low-voltage release)	0030-000	0030-001	0060-000	0060-001	0060-002
Order No. (with low-voltage release)	-	-	0060-008	0060-009	0060-010



Universal motors explosion proof	ME II 3	ME II 5	ME II 7	ME II 8
Type	460 W, 230 V	580 W, 230 V	795 W, 230 V	930 W, 230 V
Protection class/Weight	IP 54 5.5 kg	IP 54 6.3 kg	IP 54 7.5 kg	IP 54 8 kg
Order No. (with low-voltage release)	0050-000	0050-001	0050-002	0050-042
Order No. (without low-voltage release)	0050-016	0050-017	0050-018	0050-041



Compressed air motors	MD-1	MD-2	MD-3
Туре	400 W	400 W	400 W
Operating pressure:	6 bar	6 bar	6 bar
Weight	1.1 kg	1.5 kg	2.1 kg
Order No.	0004-087	0004-088	0004-090



Eccentric screw pump B70V-SR and B70V HD-SR 50.1



Materials (coming into contact with the pumped medium)

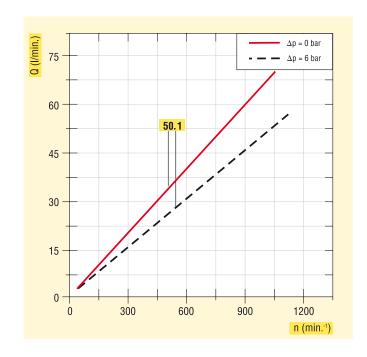
	B70V-SR 50.1	B70V HD-SR 50.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)
Mechanical seal:	Carbon/CrMo-Casting, Viton®	WC/WC/EPDM
Packing gland:	PTFE Soft packing	_
	safe for use with foodstuffs	
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE
		·

Viton® is a registered trademark of DuPont Performance Elastomers.

Important Information!

When pumping in "Zone O" areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.

Viscosity range from aqueous to fluidity range.



Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Lutz Eccentric screw pump B70V-SR and B70V HD-SR 50.1

for viscosities from 1 - 40,000 mPas

Pump tube			B70V-SR		Product detai
Size		50.1	50.1	50.1	+
Seal Packing g Mechanica)	MS	MS	St	*
Drive shaft Torsion sh Universal	naft (TS) joint shaft (UJ)	TS	UJ	UJ	1
Delivery rate*	up to I/min.	50	50	50	
Delivery head*	up to bar	8	8	8	
Temp. of medium**	up to °C	140	140	140	
Material pump tube		1.4571	1.4571	1.4571	
Immersion tube diame	eter mm	54	54	54	
Pressure joint	Outer thread	G 1 1/2	G 1 1/2	G 1 1/2	
Weight	kg	7	7	7	4
Length***	mm	1100	1100	1100	***
Stator NBR light (T max. 80 °C)	Order No.	0174-511	0174-521	0174-501	
Stator Viton (T max. 140 °C)	Order No.	0174-512	0174-522	0174-502	
Stator PTFE (T max. 140 °C)	Order No.	0174-514	0174-524	0174-504	
B70V HD-SR Stator PTFE (Tmax. 100	Order No.		0174-526		



Combination of packing gland and torsion shaft on request.

** with PTFE Stator with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)

*** Special length 500 - 2000 mm on request (version with joint shaft only)

*** Mechanical seal: carbon/CrMo-casting, Viton® and SIC/SIC



 Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping inflammable liquids of the explosion group IIA (B70V-SR) or IIB (B70V HD-SR) and temperature class T4

Choice of motors

Universal motors non-ex. proof	MI-4	MI-4-E	MAII3	MA II 5	MA II 7
Туре	500 W, 230 V	500 W, 230 V	460 W, 230 V	575 W, 230 V	795 W, 230 V
Protection class/Weight	IP 44 2.8 kg	IP 44 2.8 kg	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg
	-	with speed contr.			
Order No. (without low-voltage release)	0030-000	0030-001	0060-000	0060-001	0060-002
Order No. (with low-voltage release)	-	-	0060-008	0060-009	0060-010



Universal motors explosion proof	ME II 3	ME II 5	ME II 7	ME II 8
Туре	460 W, 230 V	580 W, 230 V	795 W, 230 V	930 W, 230 V
Protection class/Weight	IP 54 5.5 kg	IP 54 6.3 kg	IP 54 7.5 kg	IP 54 8 kg
Order No. (with low-voltage release)	0050-000	0050-001	0050-002	0050-042
Order No. (without voltage release)	0050-016	0050-017	0050-018	0050-041



Compressed air motors	MD-1	MD-2	MD-3
Туре	400 W	400 W	400 W
Operating pressure	6 bar	6 bar	6 bar
Weight	1.1 kg	1.5 kg	2.1 kg
Order No.	0004-087	0004-088	0004-090



Different voltages and frequencies see page 56-57.

Eccentric screw pump B70V 12.1 and 25.1



Materials (coming into contact with the pumped medium)

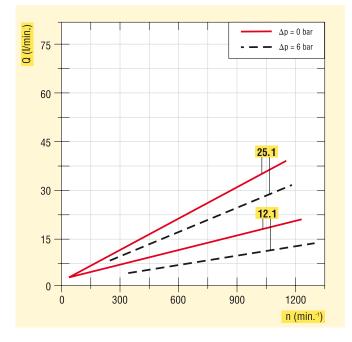
B70V 12.1/25.1	B70V 25.1 Steel	B70V HD 12.1/25.1
Stainless steel (1.4571)	galvanized steel	Stainless steel (1.4571)
Stainless steel (1.4571)	soft-nitrided steel	Stainless steel (1.4571)
FPM (Viton®) FPM (Viton®)	FPM (Viton®)	
Carbon/CrMo-Casting, Viton® (optional SIC/SIC, Viton®)	Carbon/CrMo-Casting, Viton® (optional SIC/SIC, Viton®)	WC/WC/EPDM
PTFE Soft packing safe for use with foodstuffs	-	-
Stainless steel (1.4571)	galvanized steel	Stainless steel (1.4571)
NBR light, Viton®, PTFE	NBR light, Viton®, PTFE	PTFE
	Stainless steel (1.4571) Stainless steel (1.4571) FPM (Viton®) FPM (Viton®) Carbon/CrMo-Casting, Viton® (optional SIC/SIC, Viton®) PTFE Soft packing safe for use with foodstuffs Stainless steel (1.4571)	Stainless steel (1.4571) galvanized steel Stainless steel (1.4571) soft-nitrided steel FPM (Viton®) FPM (Viton®) Carbon/CrMo-Casting, Viton® (optional SIC/SIC, Viton®) PTFE Soft packing asfe for use with foodstuffs Stainless steel (1.4571) galvanized steel

Viton® is a registered trademark of DuPont Performance Elastomers.

Important Information!

When pumping in "Zone O" areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.

Viscosity range from aqueous to fluidity range.



When pumping in "Zone 0" areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.

Lutz Eccentric screw pump B70V 12.1 and 25.1

for viscosities from 1 - 100,000 mPas

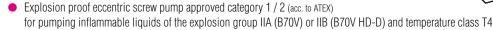
Pump tube					B70V				Prod
Size		12.1	12.1	12.1	25.1	25.1	25.1	25.1 Steel	
Seal Packing gland Mechanical seal	(St) (MS)	MS	MS	St	MS	MS	St	MS	=
Drive shaft Torsion shaft Universal joint sl	(TS) haft (UJ)	TS	UJ	UJ	TS	UJ	UJ	TS	
Delivery rate*	up to I/min.	12	12	12	25	25	25	25	
Delivery head*	up to bar	6	6	6	8	8	8	8	
Temp. of medium**	max. °C	140	140	140	140	140	140	80	
Material pump tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	galv. Steel	
Immersion tube diameter	mm	54	54	54	54	54	54	54	
Pressure joint	Outer thread	G 1 1/2							
Weight	kg	7	7	7	7	7	7	7	
Length***	mm	1000	1000	1000	1000	1000	1000	1000	
Stator NBR light (Tmax. 80 °C)	Order No.	-	-	-	0172-121	0173-131	0173-121	0171-121	
Stator Viton® (Tmax. 140 °C)	Order No.	-	-	-	0172-122	0173-132	0173-122	0171-122	
Stator PTFE (Tmax. 140 °C)	Order No.	0172-004	0173-014	0173-004	0172-124	0173-134	0173-124	0171-124	
B70V HD-D Stator PTFE (Tmax. 140 °C	Order No.		0173-016			0173-136			

Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator

Combination of packing gland and torsion shaft on request.

with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)

Special lengths 500 - 2000 mm on request (version with joint shaft only)





6 DA, 1.0 kW, 900 1/min., weight 10 kg,

air consumption 80 Nm3/h, 87 dB (A)

operating pressure at 6 bar,

G 1/2

0172-822

Choice of motors

Type

Air supply thread

Order No.

Motors with cable terminal box	For B70V - 12.1			For B70V -	25.1		
Type	0.37 kW, 700 1/min. 0.55 kW, 900 1/min.		0.55 kW, 700	0.55 kW, 700 1/min. 0.75 kW, 900 1/min			
Protection class/Weight	IP 55 15.7 kg IP 55 11.3 kg I		IP 55 15.7	IP 55 15.7 kg IP 55 17.3 kg			
Order No.	0172+803	0172	+806	0172+809		0172+812	P
Motors with protection switch	For B70V - 12.1			For B70V -	25.1		नेना 🚪 🧷
Туре	0.37 kW, 700 1/min.	0.55 k	W, 900 1/min.	0.55 kW, 700) 1/min.	0.75 kW, 900 1/min.	> - 2
Protection class/Weight	IP 54 15.7 kg	IP 54	11.3 kg	IP 54 15.7	kg	IP 54 17.3 kg	
Order No.	0172+802	0172	+805	0172+808		0172+811	
Motors, explosion proof	For B70V - 12.1			For B70V -	25.1		Three-phase motor
Type	0.37 kW, 700 1/min.	0.55	kW, 900 1/min.	0.55 kW, 700 1/min. 0.		0.65 kW, 900 1/min.	230/400 V, 50 Hz
Protection class	II 2 G Ex e II T3	II 2 G	Ex e II T3	II 2 G Ex e II T3 II 2 G Ex e II T3		Efficiency level IE 2 (≥ 0.75 kW) according	
Protection class/Weight	IP 54 16.4 kg	IP 54	17.2 kg	IP 54 18 kg IP 54 15.3 kg		to directive 2005/32/EC.	
Order No.	0172-801	0172	2-804	0172-807		0172-810	Special voltages,
Motors with frequency converter	For B70V - 12.1		For B70V - 2	25.1			frequencies, protection
Туре	0.55 kW, 0-900 1/min. 0.55 kW		0.55 kW, 0-900	0 1/min.	0.75 k	W, 0-900 1/min.	classes as well as higher explosion proof protection
Protection class/Weight	IP 54 13.5 kg IP		IP 54 13.5 I	3.5 kg IP 54		15 kg	classes on request.
Order No.	0172-769 0172-76		0172-769	0172-768			
Compressed air motors	For B70V - 12.1			For B70V -	25.1		

Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).

operating pressure at 6 bar,

G 3/8

0172-821

4 DA, 0.45 kW, 900 1/min., weight 5 kg,

air consumption 55 Nm3/h, 87 dB (A)



29

Eccentric screw pump B70V 25.2 and 50.1



Materials (coming into contact with the pumped medium)

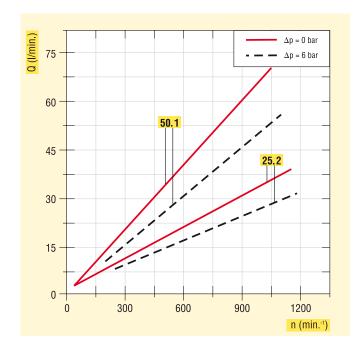
	B70V 25.2/50.1	B70V HD-D25.2/50.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)
Mechanical seal:	Carbon/CrMo-Casting, Viton®	WC/WC/EPDM
Packing gland:	PTFE Soft packing	-
	safe for use with foodstuffs	
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE

Viton® is a registered trademark of DuPont Performance Elastomers.

Important Information!

When pumping in "Zone O" areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.

Viscosity range from aqueous to fluidity range.



When pumping in "Zone 0" areas or pumping flammable liquids only pumps with mechanical seal, universal joint shaft and PTFE stator are approved.

Lutz Eccentric screw pump B70V 25.2 and 50.1

for viscosities from 1 - 100,000 mPas

Pump tube			B70V					Produc	
Size			25.2	25.2	25.2	50.1	50.1	50.1	- EII
Seal	Packing gland Mechanical sea	(St) (MS)	MS	MS	St	MS	MS	St	-4
Drive shaft	Torsion shaft Universal joint s	(TS) shaft (UJ)	TS	UJ	UJ	TS	UJ	UJ	
Delivery rate	*	up to I/min.	25	25	25	50	50	50	
Delivery hea	d*	up to bar	10	10	10	8	8	8	
Temp. of me	dium**	max. °C	140	140	140	140	140	140	
Material pun	np tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	
Immersion to	ube diameter	mm	54	54	54	54	54	54	
Pressure joir	nt	Outer thread	G 1 1/2						
Weight		kg	7	7	7	7	7	7	
Length***		mm	1100	1100	1100	1100	1100	1100	at an
Stator NBR I (Tmax. 80 °C)	•	Order No.	-	-	-	0172-501	0173-511	0173-501	
Stator Viton [©] (Tmax. 140 °C		Order No.	-	-	-	0172-502	0173-512	0173-502	
Stator PTFE (Tmax. 140 °C	C)	Order No.	0172-254	0173-264	0173-254	0172-504	0173-514	0173-504	
B70V HD-D Stator PTFE	(Tmax. 140 °C)	Order No.		0173-266			0173-516		

Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator

Combination of packing gland and torsion shaft on request.

** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)

*** Special length 500 - 2000 mm on request (version with joint shaft only)





Choice of motors

Motors with cable terminal box	For B70V - 25.2 and B70V -	For B70V - 25.2 and B70V - 50.1				
Туре	0.75 kW, 700 1/min.	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.	•		
Protection class/Weight	IP 55 17.3 kg	IP 55 21 kg	IP 55 21.1 kg			
Order No.	0172+815	0172+826	0172+818			
Motors with protection switch	For B70V - 25.2 and B70V -	50.1		den 🚪 💆		
Туре	0.75 kW, 700 1/min.	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.	2 6		
Protection class/Weight	IP 54 17.3 kg	IP 54 21 kg	IP 54 21.1 kg			
Order No.	0172+814	0172+825	0172+817			
Motors, explosion proof	For B70V - 25.2 and B70V -	50.1		Three phase mater		
Туре	0,65 kW, 700 1/min.	1,0 kW, 900 1/min.		Three-phase motor 230/400 V. 50 Hz		
Protection class	II 2 G EEx e II T3	II 2 G EEx e II T3		Efficiency level IE 2		
Protection class/Weight	IP 54 20 kg	IP 54 20 kg		(≥ 0.75 kW) according		
Order No.	0172-813	0172-816		to directive 2005/32/EC.		
Motors with frequency converter	For B70V - 25.2 and B70V -	50.1		Special voltages, frequencies, protection		
Туре	0,75 kW, 0-900 1/min.	1,1 kW, 0-900 1/min.		classes as well as higher		
Protection class/Weight	IP 54 15 kg	IP 54 20 kg		explosion proof protection		
Order No.	0172-768	0172-767		classes on request.		

Compressed air motor	For B70V - 25.2 / 50.1
Туре	8 DA, 1.7 kW, 900 1/min., weight 14 kg
	operating pressure at 6 bar, air consumption 130 Nm³/h, 102 db (A)
Air supply thread	G 1/2
Order No.	0172-823

Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).



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Eccentric screw pump B70V 75.1



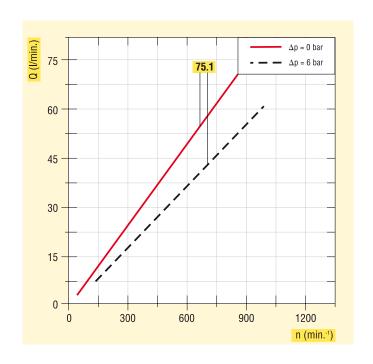
Materials (coming into contact with the pumped medium)

	D/UV /3.1
Housing:	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)
Seals:	FPM (Viton®)
Mechanical seal:	Carbon/CrMo-Casting, Viton®
Drive shaft:	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE

Viton® is a registered trademark of DuPont Performance Elastomers.

Important Information!

Viscosity range from aqueous to fluidity range.



Lutz Eccentric screw pump B70V 75.1

for viscosities from 1 - 100,000 mPas

Pump tube	B70V	Product detail
Size	75.1	
Seal Mechanical seal (MS)	MS	
Drive shaft Universal joint shaft (UJ)	UJ	- T
Delivery rate* up to I/m	n. 75	
Delivery head* up to bar	8	
Temp. of medium** max. °C	140	
Material pump tube	1.4571	
Immersion tube diameter mm	54	
Pressure joint Outer thr	ad G 1 1/2	
Weight kg	7	
Length*** mm	1100	4
Stator NBR light Order No	0173-561	
(Tmax. 80 °C)		ktor
Stator Viton Order No (Tmax. 140 °C)	0173-562	
Stator PTFE Order No (Tmax. 140 °C)	0173-564	

* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator

** with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C)

*** Special length 500 - 2000 mm on request (version with joint shaft only)

Choice of motors

Motors with cable terminal box	For B70V - 75.1		
Туре	1.1 kW, 700 1/min.	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
Protection class/Weight	IP 55 21 kg	IP 55 33 kg	IP 55 30 kg
Order No.	0172+826	0172-761	0172+829
Motors with protection switch	For B70V - 75.1		
Туре	1.1 kW, 700 1/min.	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
Protection class/Weight	IP 54 21 kg	IP 54 33 kg	IP 54 30 kg
Order No.	0172+825	0172-760	0172+828



Motors with frequency converter	For B70V - 75.1
Туре	1.5 kW, 0-900 1/min.
Protection class/Weight	IP 54 34 kg
Order No.	0172-766

Three-phase motor 230/400 V, 50 Hz,

efficiency level IE 2 (\geq 0.75 kW) according to directive 2005/32/EC.

Special voltages, frequencies, protection classes as well as higher explosion proof protection classes on request.

Compressed air motor	For B70V - 75.1
Туре	8 DA, 1.7 kW, 900 1/min., weight 14 kg
	operating pressure at 6 bar, air consumption 130 Nm ³ /h, 102 db (A)
Air supply thread	G 1/2
Order No.	0172-823



Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).

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Eccentric screw pump B70V 120.1



Materials (coming into contact with the pumped medium)

B70V 120.1

Housing:	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)
Seals:	FPM (Viton®)
Mechanical seal:	wc/wc, Viton®
Drive shaft:	Stainless steel (1.4571)
Stator material:	NBR light, PTFE

Viton® is a registered trademark of DuPont Performance Elastomers.

Range 1:

Thin-bodied, lubricating fluids such as wine, milk, oils etc. $\eta < 7000 \; \text{mPas}$

Range 2:

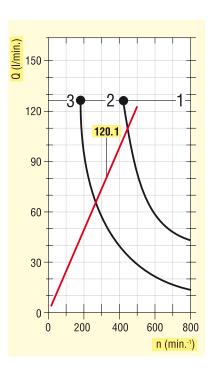
Abrasive and viscous fluids such as pulps, adhesives, paints, inks, etc. $\eta <$ 20,000 mPas

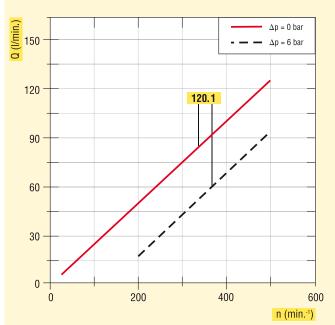
Range 3:

Very abrasive and highly viscous fluids such as honey, greases, syrups, etc. $\eta > 20,000 \text{ mPas}$

Viscosity range:

Up to limit of flowabilty





^{*} alternative mechanical seel pairing on request.

Lutz Eccentric screw pump B70V 120.1

for viscosities from 1 - 120,000 mPas

Pump tube	B70V	Product detail
Size	120.1	989
Category 1 / 2 (acc. to ATEX)	no	
Seal Mechanical seal (MS)	MS	1
Drive shaft Universal joint shaft (UJ)	UJ	
Delivery rate* up to I/min.	120	7117
Delivery head* up to bar	6	111
Temp. of medium** max. °C	140	111
Material pump tube	1.4571	111
Immersion tube diameter*** max. mm	131	III
Pressure joint Outer thread	Tri Clamp DN 50 (DIN 32676)	4 114
Weight kg	15	M
Length**** mm	1100	
Stator NBR light Order No. (Tmax. 80 °C)	0175-201	r.q.
Stator PTFE Order No. (Tmax. 140 °C)	0175-204	

Choice of motors

Drive motors

Three-phase motors 230/400 V, 50 Hz, efficiency level IE 2, protection class IP 55 with cable terminal box, protection switch or integrated frequency converter.

Special voltages, frequencies, protection class on request.

Connection dimensions

acc. IEC 34 part 7 size B14 type M100



2

^{**} with PTFE Stator

required bung hole Ø 133 mm

^{****} Special length 500 - 2500 mm on request

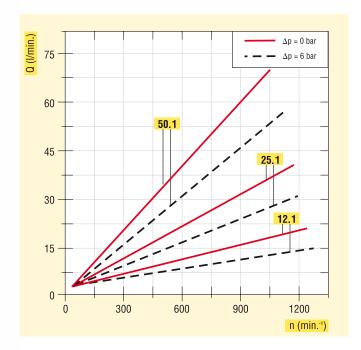
B70V-H-SR Sanitary 12.1, 25.1 and 50.1

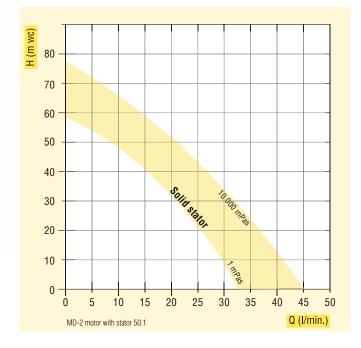


Materials (coming into contact with the pumped medium)

B70V-H-SR Sanitary
12.1/25.1/50.1

Housing:	Stainless steel (1.4404)
Rotor:	Stainless steel (1.4571)
Seals:	EPDM
Mechanical seal:	Carbon/SiC/EPDM (optional SiC/SiC/EPDM)
Drive shaft:	Stainless steel (1.4571)
Stator material:	PTFE , EPDM (Size 50.1)





Lutz Eccentric screw pump

B70V-H-SR Sanitary 12.1, 25.1 and 50.1 for viscosities up to 30,000 mPas

Pump tube			B70V-H-SR Sanitary			
Size		12.1	25.1	50.1	-	
Seal Mechanical seal	(MS)	MS	MS	MS		
Delivery rate*	up to I/min.	12	25	50	41	
Delivery head*	up to bar	6	6	8		
Temp. of medium	max. °C	100	100	100		
Material pump tube		1.4404	1.4404	1.4404		
Immersion tube diameter	mm	54	54	54		
Pressure joint	Tri-Clamp	DN 50	DN 50	DN 50		
Weight	kg	7	7	7		
Length**	mm	1100	1100	1100	- 1	
Stator EPDM	Order No.	-	-	0174-516	-	
Stator PTFE	Order No.	0174-017	0174-137	0174-517		

 $^{^{\}star}~$ Determined with water at 20 °C, three-phase motor (900 rpm)

Choice of motors

Universal motors non-ex. proof	MI-4	MI-4-E	MAII 3	MAII 5	MAII 7
Type	500 W, 230 V	500 W. 230 V	460 W. 230 V	575 W. 230 V	795 W, 230 V
Protection class/Weight	IP 24 2.8 kg	IP 24 2.8 kg	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg
3	-	with speed contr.			3
Order No. (without low-voltage release)	0030-000	0030-001	0060-000	0060-001	0060-002
Order No. (with low-voltage release)	-	_	0060-008	0060-009	0060-010
Motors in special voltages and frequencies on requ	est				



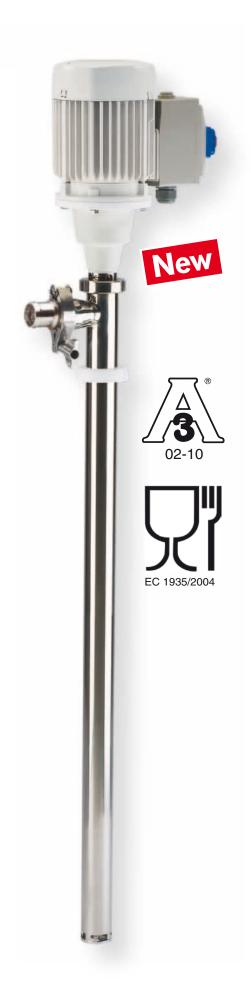
Compressed air motors	MD-1	MD-2	MD-3
Type	400 W	400 W	400 W
Operating pressure:	6 bar	6 bar	6 bar
Weight	1.1 kg	1.5 kg	2.1 kg
Order No.	0004-087	0004-088	0004-090



Accessories		Order No.
Hose connection	DN 38 to Tri-Clamp DN 50	0172-746
Adapterfitting Tri-Clamp DN 50	to thread DIN 11851 Rd 78 x 1/6 (DIN 405)	0172-747
Fastener bracket Tri-Clamp	DN 50 (DIN 32676) 1.4401 with seal EPDM	0172-745
Discharge spout Tri-Clamp DN 50		0172-748
Pump foot	for drum inliner	0172-771

^{**} Special length on request

B70V-H-D Sanitary 12.1, 25.1, 25.2, 50.1



Materials (coming into contact with the pumped medium)

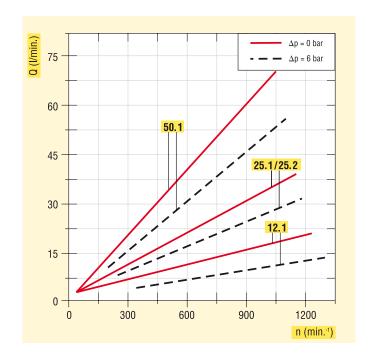
B70V-H-D Sanitary 12.1/25.1/25.2/50.1

	12.1/20.1/20.2/00.1
Housing:	Stainless steel (1.4404)
Rotor:	Stainless steel (1.4571)
Seals:	EPDM
Mechanical seal:	Carbon/SiC/EPDM (optional SiC/SiC/EPDM)
Drive shaft:	Stainless steel (1.4571)
Stator material:	PTFE, EPDM (Size 50.1)





Equipped with mounting strap and motor quick coupling as standard.



Lutz Eccentric screw pumps

B70V-H-D Sanitary 12.1, 25.1, 25.2 and 50.1 for viscosities up to 100,000 mPas

Pump tube			B70V-H-D	Sanitary	
Size		12.1	25.1	25.2	50.1
Seal Mechanical sea	al (MS)	MS	MS	MS	MS
Delivery rate*	up to I/min.	12	25	25	50
Delivery head*	up to bar	6	6	10	8
Temp. of medium	max. °C	100	100	100	100
Material pump tube		1.4404	1.4404	1.4404	1.4404
Immersion tube diameter	mm	54	54	54	54
Pressure joint	Tri-Clamp**	DN 50	DN 50	DN 50	DN 50
Weight	kg	7	7	7	7
Length**	mm	1100	1100	1100	1100
Stator EPDM	Order No.	-	-	-	0172-506
Stator PTFE	Order No.	0172-007	0172-127	0172-257	0172-507
* Determined with water at 20 °C, three	-phase motor (900 rp	m) ** Special length on request			



Choice of motors

Motors with protection switch	For B70V-H-D Sanitary - 12.1		For B70V-H-D Sanitary - 25.1		
Туре	0.55 kW, 700 1/min.	0.55 kW, 900 1/min.	0.55 kW, 700 1/min.	0.75 kW, 900 1/min.	
Protection class/Weight	IP 54 16.5 kg	IP 54 11 kg	IP 54 16.5 kg	IP 55 17 kg	
Order No.	0172-750	0172-752	0172-750	0172-753	
Motors with frequency converter	For B70V-H-D Sani	itary - 12.1	For B70V-H-D Sani	tary - 25.1	
Type	0.55 kW, 0-900 1/min.		0.55 kW, 0-900 1/min.	0.75 kW, 0-900 1/min.	
Protection class/Weight	IP 54 13.5 kg		IP 54 13.5 kg	IP 54 15 kg	
Order No.	0172-755		0172-755	0172-756	
Motors with protection switch	For B70V-H-D Sani	itary - 25 2	For B70V-H-D Sani	tary - 50 1	
Type	0.75 kW, 700 1/min.	itary 20.2		1.1 kW, 900 1/min.	
Protection class/Weight	, , , ,		IP 54 21.5 kg		
Order No.	0172-751		0172-754		
Motors with frequency converter	For B70V-H-D Sani	itary - 25.2	For B70V-H-D Sani	tary - 50.1	
Туре	0.75 kW, 0-900 1/min.	1.1 kW, 0-900 1/min.	1.1 kW, 0-900 1/min.		
Protection class/Weight	IP 54 15 kg	IP 54 20 kg	IP 54 20 kg		
Order No.	0172-756 0172-757		0172-757		



Three-phase motor 230/400 V, 50 Hz, RAL 9001, Efficiency level IE 2 (≥ 0.75 kW) according to directive 2005/32/EC. Special voltages, frequencies, protection classes on request.

Compressed air motors	For B70V - 12.1	For B70V - 25.1
Туре	4 DA, 0.45 kW, 900 1/min.,	6 DA, 1.0 kW, 900
	Weight 5 kg,	Weight 10 kg,
	operating pressure at 6 bar,	operating pressure
	air consumption 55 Nm ³ /h,	air consumption 80
	87 dB (A)	87 dB (A)
Air supply thread	G 3/8	G 1/2
Order No.	0172-821	0172-822

For B70V - 25.2 / 50.1

D 1/min.,

B DA, 1.7 kW, 900 1/min.,

Weight 14 kg,

operating pressure at 6 bar,
air consumption 130 Nm³/h,
102 dB (A)
G 1/2
0172-823



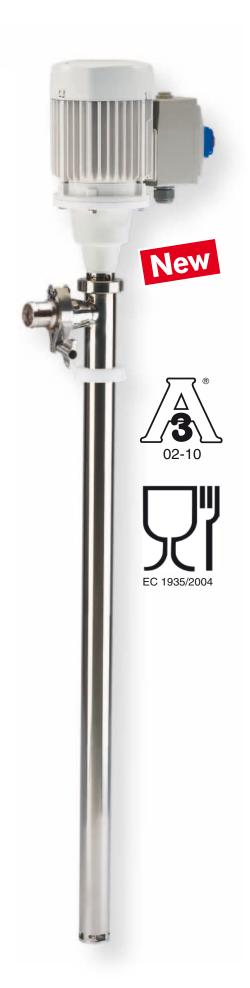
Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).

Hose connection DN 38 to Tri-Clamp DN 50	0172-746
Adapterfitting Tri-Clamp DN 50 to thread DIN 11851, Rd 78 x 1/6 (DIN 405)	0172-747
Fastener bracket Tri-Clamp DN 50 (DIN 32676) 1.4401 with seal EPDM	0172-745
Discharge spout Tri-Clamp DN 50	0172-748
Pump foot for drum inliner	0172-771

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B70V-H-D Sanitary 75.1

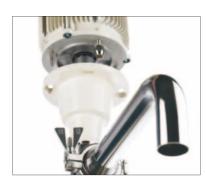


Materials (coming into contact with the pumped medium)

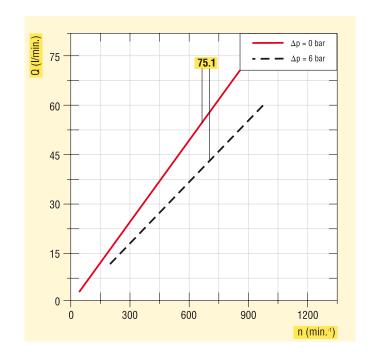
B70V-H-D	Sanitary	75.1
----------	----------	------

	2.01 2 04
Housing:	Stainless steel (1.4404)
Rotor:	Stainless steel (1.4571)
Seals:	EPDM
Mechanical seal:	Carbon/SiC/EPDM (optional SiC/SiC/EPDM)
Drive shaft:	Stainless steel (1.4571)
Stator material:	PTFE





Equipped with mounting strap and motor quick coupling as standard.



Lutz Eccentric screw pumps

B70V-H-D Sanitary 75.1 for viscosities up to 100,000 mPas

Pump tube		B70V-H-D Sanitary	Pro
Size		75.1	
Seal Mechanical se	al (MS)	MS	
Delivery rate*	up to I/min.	75	
Delivery head*	up to bar	6	
Temp. of medium	max. °C	100	
Material pump tube		1.4404	
Immersion tube diameter	mm	54	
Pressure joint	Tri-Clamp	DN 50	
Weight	kg	7	
Length**	mm	1100	
Stator PTFE	Order No.	0172-557	
* Determined with water at 20 °C thr	on phase motor (000)	(mm)	



duct detail

Choice of motors

Motors with cable terminal box	For B70V-H-D San	itary - 75.1
Туре	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
Protection class/Weight	IP 55 33 kg	IP 55 30 kg
Order No.	0172-763	0172-765
Motors with protection switch	For B70V-H-D San	itary - 75.1
Туре	1.5 kW, 700 1/min.	1.5 kW, 900 1/min.
Protection class/Weight	IP 54 33 kg	IP 54 30 kg
Order No.	0172-762	0172-764
Motors with frequency converter	For B70V-H-D Sar	nitary - 75.1
Туре	1.5 kW, 0-900 1/min	
Protection class/Weight	IP 54 34 kg	
Order No.	0172-758	



Three-phase motor 230/400 V, 50 Hz, RAL 9001, Efficiency level IE 2 (≥ 0.75 kW) according to directive 2005/32/EC. Special voltages, frequencies, protection classes on request.

Compressed air motors	For B70V - 75.1
Туре	8 DA, 1.7 kW, 900 1/min.,
	Weight 14 kg,
	operating pressure at 6 bar,
	air consumption 130 Nm³/h,
	102 dB (A)
Air supply thread	G 1/2
Order No.	0172-823



Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).

Accessories		Order No.
Hose connection	DN 38 to Tri-Clamp DN 50	0172-746
Adapterfitting Tri-Clamp DN 50	to thread DIN 11851, Rd 78 x 1/6 (DIN 405)	0172-747
Fastener bracket Tri-Clamp	DN 50 (DIN 32676) 1.4401 with seal EPDM	0172-745
Discharge spout Tri-Clamp DN 50		0172-748
Pump foot	for drum inliner	0172-771

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^{*} Determined with water at 20 °C, three-phase motor (900 rpm)

^{**} Special length on request

From the laboratory to the production



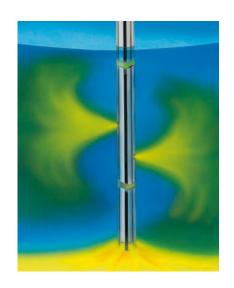
The new Lutz B2 Vario Pump comes with more features and benefits to meet the needs of working in clean and quiet environments. The speed-controllable motor and the new nozzle in the set version permits small quantities of liquids to be transferred safely and quietly. The modular construction permits effortless servicing without special tools.







Ignoring waste and costs are things of the past. The RE pump provides the solution for reducing waste and avoiding costs through product loss and waste disposal. Use of the RE means less than 0.1 litre is left in a standard 200 litre drum.



When it comes to handling emulsions or suspensions which tend to settle out at the bottom of the containers, the MP, mixing and pumping tube, is an invaluable aid in ensuring that your liquids are gently re-mixed and homogenised.







The new Lutz Battery Pump B1 for convenient and safe transfer of small liquid amounts with the battery-powered laboratory pump from Lutz. The Pump is also available as a complete pump set with accessories — incorporates the reliable and tested drum pump technology.



Economy

The days are shorter and maybe we should pause for reflection. Is there something we may have overlooked? Costs perhaps? Our specialised pumps economically take care of the light tasks, as well as those involving expensive, toxic or simply dangerous liquids. We do not leave much to chance, including your budget.

Our sets provide a complete solution, no need to hunt for the extra accessory. With our modular system, all our motors are interchangeable with our pump tubes.





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B2 Vario (polypropylene or stainless steel)



Materials (coming into contact with the pumped medium) Lutz B2 Vario PP-SL Lutz B2 Vario SS-SL

Housing:	PP/PVDF	Stainless steel (1.4571)
Impeller:	PP	ETFE
Seals:	none	none
Mechanical seals:	none	none
Bearing:	ETFE/PTFE	ETFE/PTFE
Drive shaft:	Hastelloy C	Stainless steel (1.4571)

- 1 Ultra quiet variable speed motor with safety cut-out
- 2 Ergonomically designed handles
- 3 Direct coupled motor for easy servicing
- 4 Hanger for nozzle
- 6 Chemically resistant plain bearing
- 6 Modular design sealless pump tube with improved hydraulics

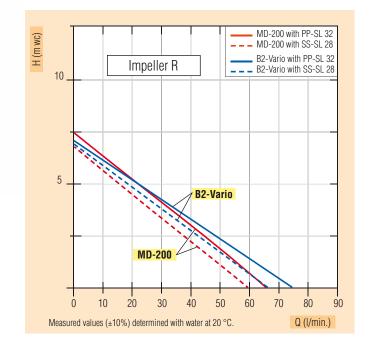
7 Replaceable pump foot







Also available with air driven motor MD-200



Lutz B2 Vario (polypropylene or stainless steel)

for the laboratory and research sector

Pump		Lutz B2 Vario PP-SL 32	Lutz MD-200 PP-SL 32	Product detail
Drive motor		Universal motor 200 W, 230 V, 50 Hz, on/off switch with variable speed controller, double insulated on protection class II, protection class IP 24, with integrated motor protection switch, 3 m connection cable	Air driven motor 200 W, operating pressure 6 bar, operating mode S1 (continuous operation), noise level 76 db/A	
Material:	Pump tube	PP	PP	
	Impeller	PP	PP	
Type of Impeller		R	R	46(8)
Category 1 / 2 (acc. to ATEX))	no	no	
Immersion tube diameter:	up to mm	32	32	
Hose connection:	Nominal diameter mm	19	19	
	Outer thread	G 1	G 1	
Delivery rate*	up to I/min.	75	65	
Delivery head*	up to m wc	7	7	
Temperature of medium:	up to °C	- 15 up to + 50	-15 up to + 50	
Viscosity**	up to mPas	300	300	- k
Density	up to kg/dm³	1.3	1.3	
Weight (kg)	motor+pump tube	2.2 - 2.5	2.0 - 2.3	
Length: 500 mm	Order No.	0201-500	0201-560	
Length: 700 mm	Order No.	0201-501	0201-561	
Length: 1000 mm	Order No.	0201-502	0201-562	
* Determined with water at 20 °C	** Determined with oil	Special lengths other voltages and frequencies or		

Pump		Lutz B2 Vario SS-SL 28	Lutz MD-200 SS-SL 28
Drive motor		Universal motor 200 W, 230 V, 50 Hz, on/off switch with variable speed controller, double insulated on protection class II, protection class IP 24, with integrated motor protection switch, 3 m connection cable	Air driven motor 200 W, operating pressure 6 bar, operating mode S1 (continuous operation), noise level 76 db/A
Material:	Pump tube	Stainless steel 1.4571	PP
	Impeller	ETFE	PP
Type of Impeller		R	R
Category 1 / 2 (acc. to ATEX)		no	no
Immersion tube diameter:	up to mm	28	28
Hose connection:	Nominal diameter mm	19	19
	Outer thread	G 1	G 1
Delivery rate*	up to I/min.	68	60
Delivery head*	up to m wc	6.5	6
Temperature of medium:	up to °C	- 15 up to + 90	-15 up to + 90
Viscosity**	up to mPas	300	350
Density	up to kg/dm³	1.3	1.3
Weight (kg)	motor+pump tube	2.9 - 3.5	2.0 - 2.3
Length: 500 mm	Order No.	0201-510	0201-570
Length: 700 mm	Order No.	0201-511	0201-571
Length: 1000 mm	Order No.	0201-512	0201-572
* Determined with water at 20 °C	** Determined with oil	Special lengths, other voltages and frequencies on	request.



Pump tube RE-PP (polypropylene)

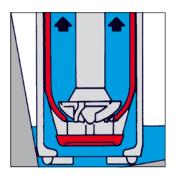


Materials (coming into contact with the pumped medium)

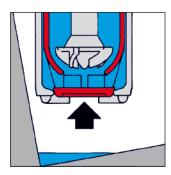
	RE-PP-MS
Housing:	PP
Impeller:	PP
Sealing pot:	PP
Seals:	Viton®
Mechanical seal:	Carbon, ceramic, Viton®, HC-4 (2.4610)
Bearing:	Pure carbon
Drive shaft:	Stainless steel (1.4571)

Viton[®] is a registered trademark of DuPont Performance Elastomers.

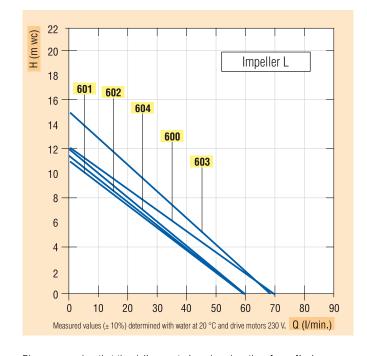
Function



The Sealing pot is open — the liquid is pumped out.



The closed sealing pot prevents a return flow when the pump is removed.



Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube RE-PP (polypropylene)

for complete drum drainage of corrosive and neutral liquids

Pump tube		RE-PP MS	Product detail
Type of impeller		L	-
Category 1 / 2 (acc. to ATEX)		no	-00
Immersion tube diameter:	up to mm	40	
Temperature of medium:	up to °C	50	
Material:	Pump tube	PP	
	Impeller	PP	
Hose connection:	Nominal diameter mm	19-32	
	Outer thread	G 1 1/4	
Length: 700 mm***	Order No.	0103-020	
Length: 1000 mm***	Order No.	0103-021	
Length: 1200 mm***	Order No.	0103-022	

Choice	of motors	8		Operating	data		
Output: Voltage: Order No.	MI-4 - 500 W 230 V 0030-000	WI-4-E with speed controller 500 W 230 V 0030-001		Characteristic Delivery rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	600 70 12 1000 1.6 4.0	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
Output: Voltage: LVR:	MA II 3 460 W 230 V no 0060-000	460 W 230 V yes 0060-008		Characteristic Delivery rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	601 60 11 800 1.7 5.8	luiz .
Output: Voltage: LVR:	MA II 5 575 W 230 V no 0060-001	MA II 5 575 W 230 V yes 0060-009	MA II 5 S 575 W 230 V no acid-proof 0060-091	Delivery rate* Delivery head* Viscosity** Density****	up to I/min.	602 60 11.5 1200 2.0 6.6	
Output: Voltage: LVR:	MA II 7 795 W 230 V no 0060-002	795 W 230 V yes		Characteristic Delivery rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	603 69 15 1000 2.0 7.8	Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. It's recommended when pumping hazardous liquids.
Output: Operating Pressure: Order No.	MD-1 400 W 6 bar 0004-087	MD-2 400 W 6 bar 0004-088		Characteristic Delivery rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	604 60 12 1000 2.0 2.7	

^{*} Determined with water at 20 °C *** Special lengths
** Determined with oil 200–2500 mm on request

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^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

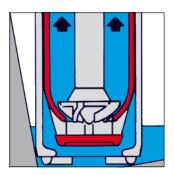
Pump tube RE-SS (stainless steel)



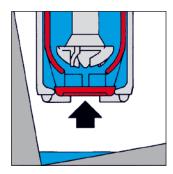
Materials (coming into contact with the pumped medium)

	RE-SS-MS
Housing:	Stainless steel (1.4571)
Impeller:	ETFE
Sealing pot:	ETFE/stainless steel (1.4571)
Seals:	FEP coated
Mechanical seal:	Carbon, ceramic, PTFE,
	HC-4 (2.4610), stainless steel (1.4571)
Bearing:	Pure carbon
Drive shaft:	Stainless steel (1 4571)

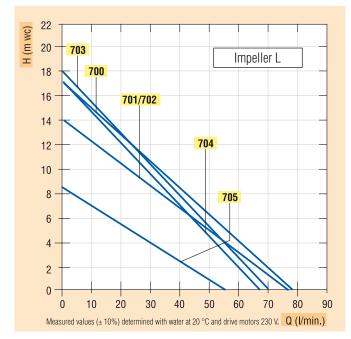
Function



The Sealing pot is open — the liquid is pumped out.



The closed sealing pot prevents a return flow when the pump is removed.



Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube RE-SS (stainless steel)

for complete drum drainage of corrosive and neutral liquids

Pump to	ube					RE	-SS MS	Product detail
Type of imp	peller						L	2
Category 1 / 2 (acc. to ATEX)							yes	(1)
Immersion tube diameter:				up to mm			41	
Temperature of medium:			up to °C			100		
Material:	ic of illouluit			Pump tube			1.4571	
material.				Impeller			ETFE	
Hose conn	ection:			Nominal diame	oter mm		19-32	
11030 001111	ootioii.			Outer thread	otor min		G 1 1/4	
Length: 7	′00 mm***			Order No.			151-156	
Length: 10				Order No.			151-157	
Length: 12				Order No.			151-158	
				_				1
Choice	of motors	S		Operating	data			
	MI-4	MI-4-E		Characteristic			700	
	-	with speed		Delivery rate*			78	<u></u>
		controller		Delivery head*			17	
Output:	500 W	500 W		Viscosity**	up to mPas		700	The Real Property lies
Voltage:	230 V 0030-000	230 V		Density****	up to kg/dm³		1.4 6.0	1000
Order No.		0030-001		Weight (kg)	motor + pump tube		0.0	
	MAII3			Characteristic	curve no.		701	
Output:	460 W	460 W		Delivery rate*			77	
Voltage:	230 V	230 V		Delivery head*			14	THE
LVR:	no	yes		Viscosity**	up to mPas		500	
Ouder Ne	0000 000	0000 000		Density****	up to kg/dm³		1.6	
Order No.	0060-000	0000-008		Weight (kg)	motor + pump tube		7.8	
_	MA II 5	MA II 5	MAII5S	Onaraotoriotio (702	
Output:	575 W	575 W	575 W	Delivery rate*			77	
Voltage:	230 V	230 V	230 V	Delivery head*			14	
LVR:	no	yes	no	Viscosity**	up to mPas		900	
Order No	0060-001	nnen-nn a	acid-proof	Density**** Weight (kg)	up to kg/dm ³ motor + pump tube		1.8 8.6	
Order No.		0000 003	0000 031	0 (0)				
	MAII 7			Characteristic			703	
Output:	795 W	795 W		Delivery rate*	up to I/min.		70	Low-voltage release (LVR):
Voltage:	230 V	230 V		Delivery head*			18	Prevents the pump from
LVR:	no	yes		Viscosity** Density****	up to mPas up to kg/dm ³		700 1.9	starting up again without warning after a power failure.
Order No.	0060-002	0060-010		Weight (kg)	motor + pump tube		9.8	It's recommended when pumping hazardous liquids.
	MD-1	MD-2					704	
Output:	400 W	400 W		Characteristic of Delivery rate*			704 68	
Operating	400 W	400 W		Delivery head*			17	
Pressure:	6 har	6 bar		Viscosity**	up to mPas		700	
. 1000010.	Juli	Juli		Density****	up to Hiras up to kg/dm³		1.8	::-
Order No.	0004-087	0004-088		Weight (kg)	motor + pump tube		4.7	
	B4/GT			Characteristic	curve no.		705	
Output:	750 W	750 W		Delivery rate*	up to I/min.		55	
Voltage:	230/400 V			Delivery head*			8.5	
Protection				Viscosity**	up to mPas		600	
		yes		Density****	up to kg/dm³		2.2	0 1
Switch:	no 0004+019			20.10.11	ap to ng, am		14.0	

^{*} Determined with water at 20 °C *** Special lengths 200–2500 mm on request

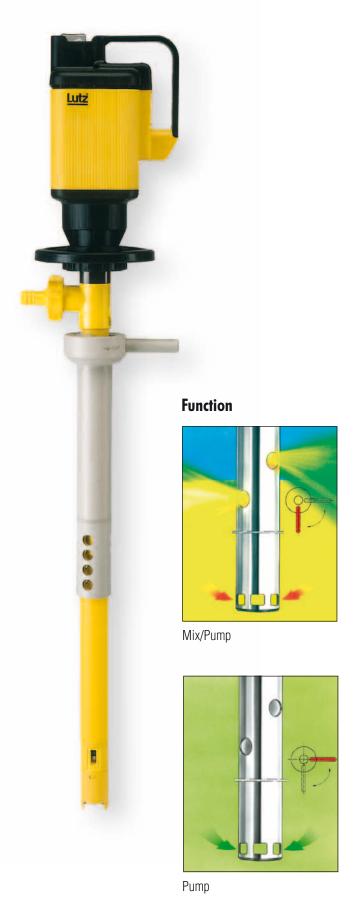
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^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

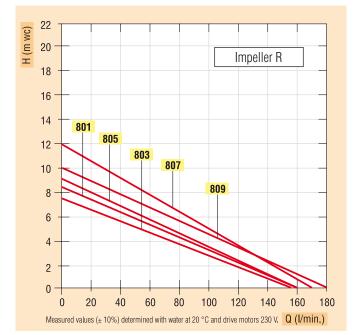
Pump tube MP-PP (polypropylene)

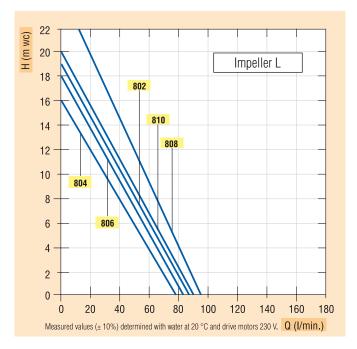


Materials (coming into contact with the pumped medium)

	MP-PP-MS	
Housing:	PP/PVDF	
Impeller:	PP	
Seals:	Viton [®]	
Mechanical seal:	Carbon, SiC, Viton®, HC	
Bearing:	ETFE/PTFE	
Drive shaft:	Stainless steel (1.4571)	

Viton® is a registered trademark of DuPont Performance Elastomers.





Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube MP-PP (polypropylene)

Pump tube		MP-I	PP MS	MP-F	PP-SL	Product deta
Type of impeller		R	L	R	L	y
Category 1 / 2 (acc. to ATEX)		no	no	no	no	
Immersion tube diameter:	up to mm	50	50	50	50	
Temperature of medium:	up to °C	50	50	50	50	
Material:	Pump tube	PP	PP	PP	PP	
	Impeller	PP	PP	PP	PP	
Hose connection:	Nominal diameter mm	19-32	19-32	19-32	19-32	
	Outer thread	G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	:
Length: 1000 mm***	Order No.	0103-160	0103-150	0110-160	0110-150	3
Length: 1200 mm***	Order No.	-	-	0110-152	-	
Ü						

Choice	of motors	3		Operating	data					
Output: Voltage: Order No.	MI-4 - 500 W 230 V 0030-000	MI-4-E with Speed controller 500 W 230 V 0030-001		Characteristic of Delivery rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	801 160 8,5 150 1.1 4.1	802 87 19 500 1.4 4.1	801 160 8,5 150 1.1 4.1	802 87 19 500 1.4 4.1	S. H. B.
Output: Voltage: LVR:	MA II 3 460 W 230 V no	460 W 230 V yes		Characteristic of Delivery rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	803 155 7.5 160 1.2 5.9	804 78 16 500 1.6 5.9	803 155 7.5 160 1.2 5.9	804 78 16 500 1.6 5.9	Luca .
Output: Voltage: LVR:	MA II 5 575 W 230 V no 0060-001	MA II 5 575 W 230 V yes 0060-009	MA II 5 S 575 W 230 V no acid-proof 0060-091	Characteristic of Delivery rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	805 160 9 350 1.3 6.7	806 83 18 800 1.8 6.7	805 160 9 350 1.3 6.7	806 83 18 800 1.8 6.7	
Output: Voltage: LVR:	MA II 7 795 W 230 V no 0060-002	795 W 230 V yes		Characteristic delivery rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	807 170 12 350 1.4 7.9	808 95 25 800 1.9 7.9	807 170 12 350 1.4 7.9	808 95 25 800 1.9 7.9	Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. It's recommended when pumping hazardous liquids.
Output: Operating Pressure: Order No.	MD-1 400 W 6 bar 0004-087	MD-2 400 W 6 bar 0004-088		Characteristic delivery rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	809 180 10 600 1.3 2.8	810 90 20 850 1.8 2.8	810 180 10 600 1.3 2.8	809 90 20 850 1.8 2.8	

^{*} Determined with water at 20 °C *** Special lengths
** Determined with oil 200–2500 mm on request

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^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

Pump tube MP-SS (stainless steel)



Materials (coming into contact with the pumped medium)

	MP-SS-MS
Housing:	Stainless steel (1.4571)
Impeller:	ETFE
Seals:	Viton® (FEP coated)
Mechanical seal:	Carbon, ceramic, PTFE,
	Stainless steel (1.4571), HC-4 (2.4610)
Bearing:	Pure carbon
Drive shaft:	Stainless steel (1.4571)
DITAC SHAIL.	Statiliess steet (1.45/11)

Function



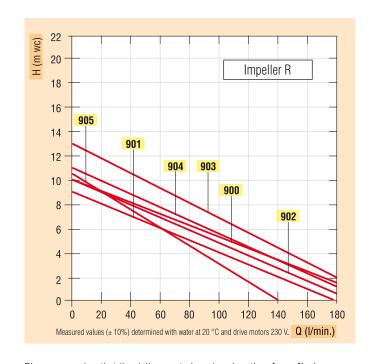


Mix/Pump

Pump

Pump tubes in physiologically safe version (FDA)

All materials coming into contact with the pumped medium are FDA approved materials.



Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube MP-SS (stainless steel)

for mixing and pumping of corrosive and neutral liquids

Pump tu	ıbe					MP	-SS MS	Product detail
Type of imp	oeller						R	
	/ 2 (acc. to ATE	EX)					yes	(1)
Immersion	tube diamete	er:		up to mm			41	
Temperatur	re of medium	:		up to °C			100	
Material:				Pump tube			1.4571	
				Impeller			ETFE	
Hose conne	ection:			Nominal diame	ter mm		19-32	
Length: 100	00 mm***			Outer thread Order No.			G 1 1/4 I51-240	lli.
Length: 120				Order No.			151-240	
Choice	of motors	8		Operating	data			
	MI-4	MI-4-E		Characteristic o	no no		900	
	-	with speed		Delivery rate*			210	and the second
		contoller		Delivery head*			10	
Output:	500 W	500 W		Viscosity**	up to mPas		350	THE RESERVE OF THE PARTY.
Voltage: Order No.	230 V 0030-000	230 V		Density**** Weight (kg)	up to kg/dm³		1.1 6.0	11111
Order No.		0030-001		weight (kg)	motor + pump tube		0.0	
	MAII3			Characteristic o			901	
Output:	460 W	460 W		Delivery rate*			178	Lutz
Voltage: LVR:	230 V no	230 V yes		Delivery head* Viscosity**	up to m wc up to mPas		9 200	
LVIII.	110	y03		Density****	up to IIII as		1.2	
Order No.	0060-000	0060-008		Weight (kg)	motor + pump tube		7.8	
	MA II 5	MA II 5	MAII5S	Characteristic o	no no		902	
Output:	575 W	575 W	575 W		up to I/min.		190	
Voltage:	230 V	230 V	230 V	Delivery head*			10	
LVR:	no	yes	no	Viscosity**	up to mPas		550	
Order No.	0060 001	0060 000	acid-proof	Density**** Weight (kg)	up to kg/dm³		1.3 8.6	
Oluci No.		0000-009	0000-031	weight (kg)	motor + pump tube		0.0	
	MAII 7			Characteristic o	curve no.		903	
Output:	795 W	795 W			up to I/min.		210	Low-voltage release (LVR):
Voltage: LVR:	230 V no	230 V yes		Delivery head* Viscosity**	up to m wc up to mPas		13 400	Prevents the pump from starting up again without warning after a
LVIII.	110	y03		Density****	up to IIII as		1.4	power failure. It's recommended
Order No.	0060-002	0060-010		Weight (kg)	motor + pump tube		9.8	when pumping hazardous liquids.
	MD-1	MD-2		Characteristic o	rurve no		904	
Output:	400 W	400 W		Delivery rate*	up to I/min.		200	
Operating				Delivery head*			11	and the same of th
Pressure:	6 bar	6 bar		Viscosity**	up to mPas		400]
Order No.	NNN4-027	0004-088		Density**** Weight (kg)	up to kg/dm³ motor + pump tube		1.3 4.7	<u> </u>
Oruci NU.		0004-000						
Outent	B4/GT	750 141		Characteristic of			905	
Output: Voltage:	750 W 230/400 V	750 W 230/400 V		<u> </u>	up to I/min.		140 10.5	
vonaye.	230/400 V	230/400 V		Viscosity**	up to m wc up to mPas		400	Times.
Protection				VIOUUSIIV				
Protection Switch:	no	yes		Density****	up to kg/dm³		2.0	97

^{*} Determined with water at 20 °C *** Special lengths
Determined with oil 200–2500 mm on request

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^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

Lutz Pump Sets

Ready for action



For aqueous fluids	Lutz B2 Vario PP-SL 32	Lutz MD-200 PP-SL 32	Lutz MD-300 PP-SL 32
Imm. depth: 500 mm Order-No.	0205-020	0205-065	on request
Imm. depth: 700 mm Order-No.	0205-021	0205-066	on request
Imm. depth: 1000 mm Order-No.	0205-022	0205-067	on request

Consisting of:

Pump, Lutz-nozzle, 2 x hose clips 3/4", 1.5 m PVC hose 3/4", wall bracket

 Density:
 max. 1.3 kg/dm³
 max. 1.3 kg/dm³

 Viscosity:
 max. 300 mPas
 max. 300 mPas

 Delivery rate:
 max. 75 l/min.
 max. 65 l/min.

 (22 l/min.)*
 (22 l/min.)*
 (22 l/min.)*

 Delivery head:
 max. 7 m wc
 max. 7 m wc

Air driven motor MD-200/MD-300 also available with pump tube in aluminium

max. 1.5 kg/dm3

max. 500 mPas

max. 85 l/min.

(22 l/min.)* max. 7 m wc



For aqueous flui	ds	Lutz B2 Vario SS-SL 28	Lutz MD-200 SS-SL 28	Lutz MD-300 SS-SL 28
Imm. depth: 500 mm	Order-No.	0205-030	0205-075	on request
Imm. depth: 700 mm	Order-No.	0205-031	0205-076	on request
Imm. depth: 1000 mm	Order-No.	0205-032	0205-077	on request

Consisting of:

Pump, Lutz-nozzle, 2 x hose clips 3/4", 1.5 m PVC hose 3/4", wall bracket

max. 1.3 kg/dm³ max. 1.3 kg/dm3 max. 1.5 kg/dm3 Density: max. 300 mPas max. 500 mPas Viscosity: max. 350 mPas Delivery rate: max. 68 l/min. max. 60 I/min. max. 85 I/min. (22 I/min.)* (22 I/min.)* (22 I/min.)* max. 6.5 m wc Delivery head: max. 6 m wc max. 12 m wc



Set 3 Set 4

For thin-bodied alkalis For thin-bodied acids

 Imm. depth: 1000 mm
 Order-No.
 0205-101
 0205-111

 Imm. depth: 1200 mm
 Order-No.
 0205-102
 0205-112

Consisting of:

Motor MI-4, pump tube PP 41-L-SL SS (Set 3), PP 41-L-SL HC (Set 4), 2×10^{-2} x hose connection PP 3/4", 2×10^{-2} m PVC fabric hose 3/4", 2×10^{-2} x hose clips 3/4", nozzle PP with sealing FEP (Set 3), nozzle PP (Set 4), drum adapter PP

Density: max. 1.4 kg/dm³
Viscosity: max. 500 mPas
Delivery rate: max. 85 l/min. (50 l/min.)*

Delivery head: max. 19 m wc



For highly aggressive acids and alkalis

Consisting of:

Motor MA $\bar{\text{II}}$ 5, pump tube PVDF 41-L-SL, hose connection PTFE 3/4", 2 m special chemical hose 3/4", 2 x hose clips 3/4", nozzle PVDF, hose connection turnable, drum adapter PP

Density: max. 1.8 kg/dm³
Viscosity: max. 800 mPas
Delivery rate: max. 80 l/min. (50 l/min.)*

Delivery head: max. 17 m wc

^{*} 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 (see brackets). Customized sets available on request.

Lutz Pump Sets

Ready for action

For light viscous mineral oil products

Imm. depth: 1000 mm Order-No.

Consisting of:

Motor MI-4, pump tube Alu 41-L-SL, hose connection Alu 1", 2 m PVC fabric hose 1", 2 x hose clips 1", nozzle aluminium, hose connection brass 1", drum adapter PP

Density: max. 1.4 kg/dm3 Viscosity: max. 500 mPas

Delivery rate: max. 85 I/min. (50 I/min.)*

Delivery head: max. 19 m wc



For easily flammable hydrocarbons

Imm. depth: 1000 mm Order-No. 0205-401

Consisting of:

Motor ME II 3, pump tube SS 41-L-SL, 2 x hose connection brass, 2 m solvent hose 3/4", nozzle brass/PTFE, equipotential bonding cable, drum adapter PP (without ex plug)

max, 1.6 kg/dm³ Density: Viscosity: max. 350 mPas

Delivery rate: max. 95 I/min. (60 I/min.)*

Delivery head: max. 14 m wc



For all hazardous fluids

Imm. depth: 1000 mm Order-No. 0205-411

Consisting of:

Motor ME II 3, pump tube SS 41-L-SL, 2 x hose connection SS, 2 m universal chemical hose 3/4", nozzle SS with sealing FEP, equipotential bonding cable, drum adapter PP (without ex plug)

max. 1.6 kg/dm3 Density: Viscosity: max. 350 mPas

Delivery rate: max. 95 I/min. (60 I/min.)*

Delivery head: max. 14 m wc



Set 9

for easily flammable hydrocarbons

Imm. depth: 1000 mm Order-No. 0205-501

Set 10 Suitable for complete drum drainage Suitable for complete drum drainage for all hazardous fluids

Consisting of:

Motor ME II 3, pump tube RE-SS 41-L-MS, 2 x hose connection brass, DN 19, 2 m solvent hose 3/4", nozzle brass/PTFE, equipotential bonding cable,

drum adapter PP (without ex plug) max. 1.6 kg/dm3 Density: max. 500 mPas Viscosity:

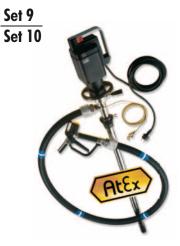
max. 77 I/min. (45 I/min.)* Delivery rate:

Delivery head: max. 14 m wc

0205-511

Consisting of:

Motor ME II 3, pump tube RE-SS 41-L-MS, 2 x hose connection SS, DN 19, 2 m universal chemical hose 3/4", nozzle SS with sealing FEP, equipotential bonding cable, drum adapter PP (without ex plug)



*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 (see brackets). Customized sets available on request.

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Choice of motors

Electric driven





Туре	Nominal voltage	Frequency	Nominal power	Weight	Order-No.	Order-No. (without Low
	V	Hz	W	kg	voltage-release)	voltage-release)
MI-4-230	220-230	50	450-500	2.8	-	0030-000
MI-4-230 E	220-230	50	450-500	2.8	-	0030-001
MI-4-230	230	60	400	2.8	-	0030-015
MI-4-230 E	230	60	400	2.8	-	0030-016
MI-4-120	110-120	50-60	550-640	2.8	-	0030-003
MI-4-120 E	110-120	50-60	550-640	2.8	-	0030-006
MI-4-100 E	100	50-60	520-550	2.8	-	0030-008

With or without speed controller



Туре	Nominal voltage	Frequency	Nominal power	Weight	Order-No.	Order-No.
	V	Hz	W	kg	voltage-release)	voltage-release)
MA II 3	220-230	50	430-460	4.6	0060-008	0060-000
	100-120	50-60	430	4.6	0060-016	0060-044
MA II 5	220-230	50	540-575	5.4	0060-009	0060-001
	220-230	60	450-490	5.4	0060-043	0060-042
	100-120	50-60	510	5.4	0060-017	0060-045
	42	50	520	5.4	0060-014	0060-006
	24	=	400	5.4	0060-015	0060-007
MAII5S	220-230	50	540-575	5.4	-	0060-091
	100-120	50-60	510	5.4	-	0060-094
MAII7	220-230	50	790-795	6.6	0060-010	0060-002
	100-120	50-60	700	6.6	0060-018	0060-046





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Туре	Nominal voltage	Frequency	Nominal power	Weight	Order-No.	Order-No.
	V	Hz	W	kg	voltage-release)	voltage-release)
ME II 3	220-230	50	430-460	5.5	0050-000	0050-016
	100-120	50	380-440	5.5	0050-003	-
	110-120	60	400-460	5.5	0050-006	0050-009
ME II 5	220-230	50	540-580	6.3	0050-001	0050-017
	220-230	60	475-515	6.3	0050-034	0050-035
	110	50	510	6.3	-	0050-004
	24	=	400	6.3	0050-013	0050-015
ME II 7	220-230	50	750-795	7.5	0050-002	0050-018
ME II 8	220-230	50	880-930	8.0	0050-042	0050-041

IP 55 available at additional cost. With or without low voltage-release



Туре	Nominal	Frequency	Nominal	Weight	Order-No.	Order-No.
	voltage ∨	Hz	power W	kg	(Cable terminal box)	(Protection switch)
B4/GT	230-400	50	750	10.0	0004+019	0004+067

IP 54/IP 55 **€**

For continuous operation

Choice of motors

Air driven

Туре	Operating pressure bar	Nominal power W	Weight kg	Order-No.
MD-1	6	400	1.1	0004-087
MD-2	6	400	1.5	0004-088
MD-3	6	400	2.1	0004-090





MD-2





Туре	Operating pressure bar	Nominal power W	Weight kg	Order-No.
MD-200	6	200	8.0	0004-160
MD-300	6	300	0.9	0004-170

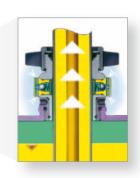






Getting started





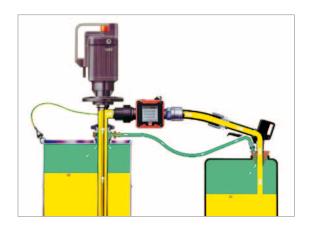
In keeping with our philosophy of making life safe and simple, we have a complete range of accessories available for you.

From the humble wall bracket to protect your pump, connectors to fit your hose size, to bonding and grounding wires to protect your employees, nothing has been overlooked.

To reduce the risk of spillage, we have nozzles available in five different materials, polypropylene, PVDF, stainless steel, brass and aluminium.

To avoid fumes or emissions from drums or containers, we have specialised drum adapters, and when it comes to accurate measurement or process control, we have a full range of flow meters to cater to your needs. The latter not only cover thin and thick fluids, but also flammable and explosive liquids.

EMIGA: emission proof drum adapters

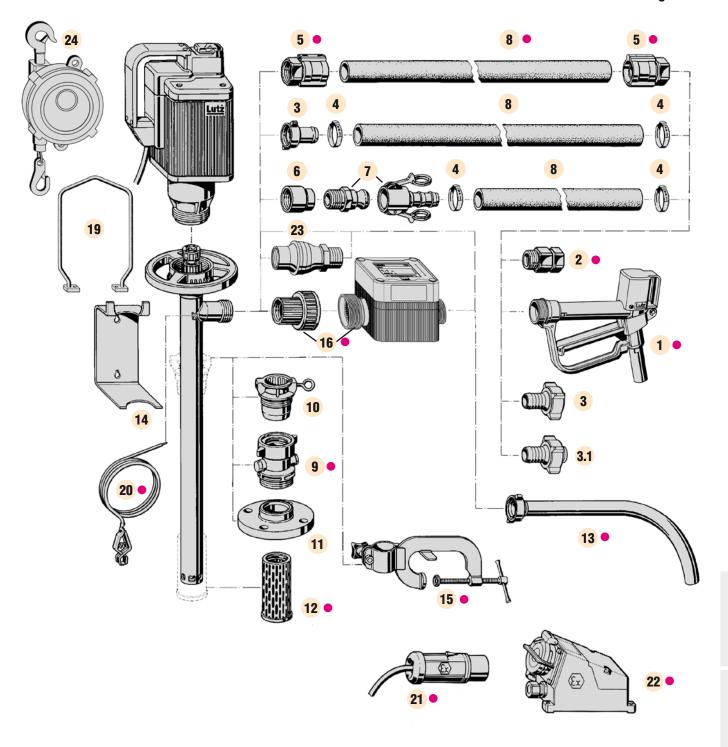


Concern about air pollution has never been so widespread as it is today. Acting on its sense of environmental responsibility, Lutz has further developed its emission proof drum adapter as a complete gas displacement system. When pumping or storing hazardous liquids in the container, any harmful gases or vapours present remain in a closed system. The pressures inside and outside of the vessel are compensated. This means that the vessel does not collapse even when fast emptying is required.

- ✓ Prevents emissions of harmful gases and vapours when filling and emptying.
- ✓ Protects the operator as well as the environment from noxious, toxic and/or severely oxidising emissions.
- All that is needed is a single drum adapter with two integrated valves.
- For flexible operation with nozzle or stationary operation by fixed union.
- ✓ A check valve is integrated into the gas displacement pipe, to prevents back-flow.
- For fixed installations the thread and diameter sizes can be supplied to match the container opening.
- For IBC containers suitable container caps are available.
- Larger dimensioned air valves are available for emptying of 1000 l vessels.

Accessories

At a glance



1	Nozzle

2	Turning knuckle	
_	Turring Kriuckic	

- 3 Hose connection
- 3.1 Hose connection, rotatable
- 4 Hose clamp
- 5 Hose connector
- 6 Reducing sleeve
- Quick-action hose coupling

- 8 Hose
- **9** Emission proof drum adapter
- 10 Drum adapter
- 11 Installation flange
- **12** Foot strainer
- 13 Discharge spout

15 • Clamping device

- 14 Wall bracket
- For the delivery of easy flammable liquids (e. g. ethanol, petrol) or in hazardous locations

- 16 Flow meter
- 19 Lifting device
- **20** Equipotential bonding cable
- **21** Explosion proof plug
- **22** Explosion proof socket
- 23 Check valve
- 24 Hoist

For more information please have a look into our accessories leaflet.

When is @ necessary?



If we were to go into the subject of "explosion protection" with all its guidelines and specifications and all the protective measures that are derived from them, this would more than exceed the scope of our catalogue. Nevertheless, we would like to include a few explanations and make a few statements with respect to the basics of this subject.

The prerequisite for a potential explosion hazard is the development of an explosive atmosphere. Such an atmosphere can arise wherever flammable gases or liquids are manufactured, processed, transported and stored. Particularly in chemical factories, refineries, storage tank installations, paint factories, filling stations, etc., it is possible for such hazardous locations to exist. These are locations in which explosive atmospheres with potentially dangerous levels can arise due to the environmental and operational conditions that prevail. Consequently, there is an explosion hazard.

The term "explosion" is understood as being a rapidly occurring combustion process for which three essential conditions must be prevalent simultaneously:

flammable gases, oxygen (air) and an ignition source such as the ignition sparks of electrical equipment (brush sparking).

However, it is an unavoidable necessity at many industrial locations to run electrical equipment in an explosive atmosphere. The precautions that have to be taken against an explosion occurring are stipulated by the national or other authorities responsible for safety. These authorities lay down constructional requirements for the electrical equipment and issue specifications with respect to their installation and operation.

In addition to the concepts of "electrical equipment", "hazardous locations" and "explosive atmosphere" mentioned above, another important factor is the ignition temperature of a combustible substance. This is the lowest measured temperature of a heated wall, located in a test apparatus, at which the combustible substance mixed with air is still capable of igniting itself. The flammable gases and vapours of flammable liquids are classified according to their ignition temperature.

The term "type of enclosure" refers to measures built into electrical equipment during manufacture to prevent this equipment from igniting the explosive atmosphere in which it is located. As a result, electrical equipment is categorised into groups and classes in accordance with the European norms. According to EN/IEC 60079-0, electric drum and container pumps for use in hazardous locations belong to Group II (Explosion Group II).

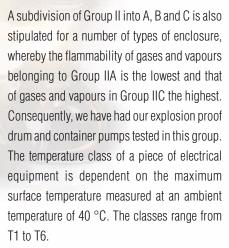
Designation	Euro Norm	Explanation	Area of Application
Ex d	EN/IEC 60079-1	Explosion proof enclosure: Parts that are capable of igniting an explosive atmosphere are enclosed in a special housing. Should an explosion occur within, it is so designed that it can withstand the resultant pressure.	Zones 1 + 2
Ex e	EN/IEC 60079-7	Increased-safety enclosure: Measures have been taken to provide a greater degree of safety by preventing impermissibly high temperatures and the generation of sparks or arcing.	Zones 1 + 2
Exi	EN/IEC 60079-11	Intrinsic safety: Circuit in which it is not possible for a spark or thermal effect to arise which could cause a specific explosive atmosphere to ignite.	Zones 1 + 2, Zone 0 after special test
Ex m	EN/IEC 60079-18	Encapsulation: The potential source of a spark is encapsulated.	Zones 1 + 2





Safety

When it comes to keeping warm, we make sure you are not in the fire. Our pumps and motors are certified to the latest ATEX standards and offer protection against hazardous and highly flammable liquids, or hazardous environments. Your safety is our concern.



Of the various types of enclosure possible, only "explosion proof enclosure" (EN/IEC 60079-1), "increased-safety enclosure" (EN/IEC 60079-7) and "intrinsic safety" (EN/IEC 60079-11) are of relevance to Lutz electric drum pumps.

The Lutz ME II motors are explosion proof in accordance with European standards EN/IEC 60079-0, EN/IEC 60079-1 and EN/IEC 60079-7 and approved for protection class Ex de IIC T6. In addition to these safety features, the version with double insulation also ensures additional safety for equipotential bonding. Live components are isolated from the accessible external surfaces and from the pump tube.



Pump tube SS (stainless steel)

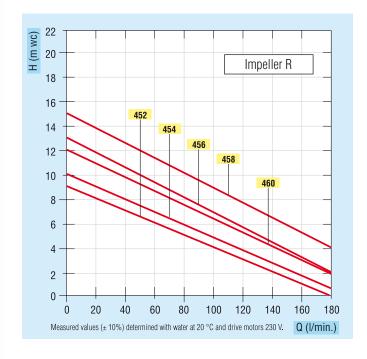


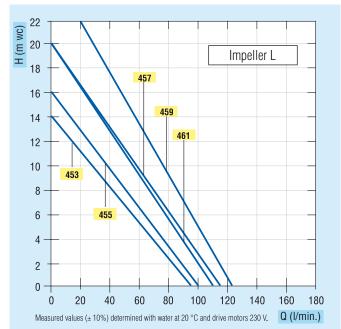


Materials (coming into contact with the pumped medium)

SS-MS	SS-SL
Stainless steel (1.4571)	Stainless steel (1.4571)
ETFE	ETFE
Viton®	none
Carbon, ceramic, Viton®, Stainless steel	none
Pure carbon	Pure carbon
Stainless steel (1.4571)	Stainless steel (1.4571)
	Stainless steel (1.4571) ETFE Viton® Carbon, ceramic, Viton®, Stainless steel Pure carbon

Viton® is a registered trademark of DuPont Performance Elastomers.





Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube SS (stainless steel)

for highly inflammable liquids

Pump tube		SS	-MS	SS	-SL	Product deta
Type of impeller		R	L	R	L	2
Category 1 / 2 (acc. to ATEX)		yes	yes	yes	yes	med II
Immersion tube diameter:	up to mm	41	41	41	41	
Temperature of medium:	up to °C	100	100	100	100	ll l
Material:	Pump tube	1.4571	1.4571	1.4571	1.4571	ll l
	Impeller	ETFE	ETFE	ETFE	ETFE	
Hose connection:	Nominal diameter mm	19-32	19-32	19-32	19-32	ll l
	Outer thread	G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	
Length: 700 mm***	Order No.	0151-000	0151-003	0150-000	0150-003	
Length: 1000 mm***	Order No.	0151-001	0151-004	0150-001	0150-004	ll ll
Length: 1200 mm***	Order No.	0151-002	0151-005	0150-002	0150-005	- 111
Length: 1400 mm***	Order No.	-	-	0150-113	0150-108	- 1
Length: 1500 mm***	Order No.	-	-	0150-114	0150-109	
Length: 1600 mm***	Order No.	-	-	0150-115	0150-110	
Length: 1700 mm***	Order No.	-	-	0150-116	0150-111	
Length: 2000 mm***	Order No.	-	-	0150-117	0150-112	

Choice of I	motors		Operating data					
Output: 460 Voltage: 230 LVR: yes			Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tube	452 178 9 200 1.2 8.7	453 95 14 350 1.6 8.7	452 178 9 200 1.2 8.7	453 95 14 350 1.6 8.7	
Output: 580 Voltage: 230 LVR: yes			Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tube	454 190 10 550 1.3 9.6	455 100 16 700 1.8 9.6	454 190 10 550 1.3 9.6	455 100 16 700 1.8 9.6	AtEx
Output: 795 Voltage: 230 LVR: yes			Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tube	456 210 13 400 1.4 10.8	457 115 20 500 1.9 10.8	456 210 13 400 1.4 10.8	457 115 20 500 1.9 10.8	
Output: 930 Voltage: 230 LVR: yes	E II 8 0 W 930 W 0 V 230 V s no 150-042 0050-041		Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tube	458 243 15 650 1.4 10.8	459 123 26 750 1.9 10.8	458 243 15 650 1.4 10.8	459 123 26 750 1.9 10.8	Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. In the hazardous location, motors with low- voltage release are absolutely prescribed.
Output: 400 Operating Pressure: 6 b	D-1 MD-2 0 W 400 W par 6 bar 004-087 0004-088	MD-3 400 W 6 bar 0004-090	Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tube	460 210 12 400 1.3 4.4	461 110 20 500 1.8 4.4	460 210 12 400 1.3 4.4	461 110 20 500 1.8 4.4	

^{*} Determined with water at 20 °C
** Determined with oil

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^{***} Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

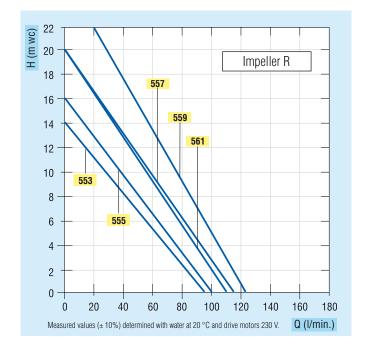
Pump tube HC (Hastelloy C)

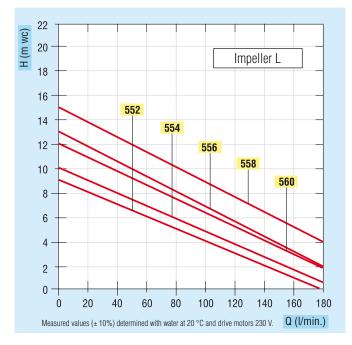


Materials (coming into contact with the pumped medium)

	HC-SL	
Housing:	HC-22 (2.4602)	
Impeller:	ETFE	
Seals:	Viton® (FEP coated)	
Bearing:	ETFE, Carbon	
Drive shaft:	HC-4 (2.4610)	

Viton® is a registered trademark of DuPont Performance Elastomers.





Please remember that the flow rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the flow rate, though to a lesser extent.

Pump tube HC (Hastelloy C)

for highly inflammable chemicals

Pump tube	НС	HC-SL		
Type of impeller		L	R	
Category 1 / 2 (acc. to ATEX)		yes	yes	
Immersion tube diameter:	up to mm	42	42	
Temperature of medium:	up to °C	120	120	
Material:	Pump tube Impeller	HC ETFE	HC ETFE	
Hose connection:	Nominal diameter mm Outer thread	19-32 G 1 1/4	19-32 G 1 1/4	
Length: 1000 mm***	Order No.	0162-204	0162-201	
Length: 1200 mm***	Order No.	0162-205	0162-202	

Choice	of motors	S		Operating	data			
Output: Voltage: LVR.: Order No.	ME II 3 460 W 230 V yes 0050-000	460 W 230 V no 0050-016		Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	553 95 14 350 1.6 10.2	552 178 9 200 1.2 10.2	
Output: Voltage: LVR.:	ME II 5 580 W 230 V yes 0050-001	580 W 230 V no 0050-017		Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	555 100 16 700 1.8 11.1	554 190 10 550 1.3 11.1	ALEX
Output: Voltage: LVR.:	ME II 7 795 W 230 V yes 0050-002	795 W 230 V no 0050-018		Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	557 115 20 500 1.9 12.3	556 210 13 400 1.4 12.3	
Output: Voltage: LVR.:	ME II 8 930 W 230 V yes 0050-042	930 W 230 V no		Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	559 123 26 750 1.9 12.3	558 243 15 650 1.4 12.3	Low-voltage release (LVR.): Prevents the pump from starting up again without warning after a power failure. In the hazardous location, motors with low-voltage release are absolutely predcribed.
Output: Operating- pressure: Order No.	6 bar 0004-087	MD-2 400 W 6 bar 0004-088	MD-3 400 W 6 bar 0004-090	Viscosity** Density****	up to I/min. up to m ws up to mPas up to kg/dm³ Motor + pump tube	561 110 20 500 1.8 5.9	560 210 12 400 1.3 5.9	Artex

^{*} Determined with water at 20 °C ** Determined with oil

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^{***} Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

Pump tube RE-SS (stainless steel)

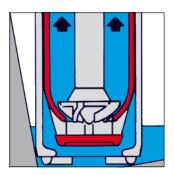




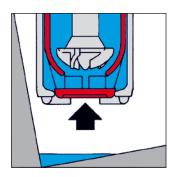
Materials (coming into contact with the pumped medium)

	RE-SS-MS
Housing:	Stainless steel (1.4571)
Impeller:	ETFE
Sealing pot:	ETFE/stainless steel (1.4571)
Seals:	FEP coated
Mechanical seal:	Carbon, ceramic, PTFE,
	HC-4 (2.4610), stainless steel (1.4571)
Bearing:	Pure carbon
Drive shaft:	Stainless steel (1 4571)

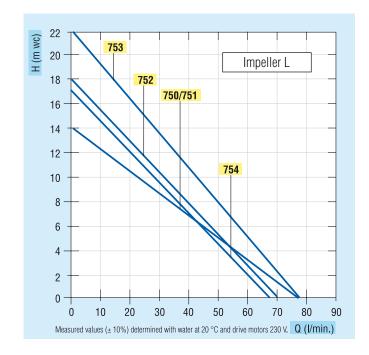
Function



The Sealing pot is open – the liquid is pumped out.



The closed sealing pot prevents a return flow when the pump is removed.



Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube RE-SS (stainless steel)

for complete drum drainage of highly inflammable liquids

Pump tube		RE-SS MS	Product detail
Type of impeller		L	
Category 1 / 2 (acc. to ATEX)		yes	
Immersion tube diameter:	up to mm	41	
Temperature of medium:	up to °C	100	
Material:	Pump tube	1.4571	
	Impeller	ETFE	
Hose connection:	Nominal diameter mm	19-32	
	Outer thread	G 1 1/4	
Length: 700 mm***	Order No.	0151-156	
Length: 1000 mm***	Order No.	0151-157	
Length: 1200 mm***	Order No.	0151-158	

Choice of	f motors			Operating	data		
Output: 4 Voltage: 2 LVR: y	230 V res	460 W 230 V no		Characteristic of Delivery rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	750 77 14 500 1.6 9.0	
Output: 5 Voltage: 2 LVR: y	230 V res	580 W 230 V no 0050-017		Characteristic of Delivery rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	751 77 14 900 1.8 9.9	Atex
Output: 7 Voltage: 2 LVR: y	230 V res	795 W 230 V no 0050-018		Characteristic Delivery rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	752 70 18 700 1.9 11.1	
Output: 9 Voltage: 2 LVR: y	230 V res	930 W 230 V no 0050-041		Characteristic Delivery rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	753 78 22 950 1.9 11.1	Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. In the hazardous location, motors with low-voltage release are absolutely prescribed.
	100 W 6 bar	MD-2 400 W 6 bar 0004-088	MD-3 400 W 6 bar 0004-090	Characteristic Delivery rate* Delivery head* Viscosity** Density*** Weight (kg)	curve no. up to I/min. up to m wc up to mPas up to kg/dm³ motor + pump tube	754 68 17 700 1.8 4.7	

^{*} Determined with water at 20 °C ** Determined with oil

1

2

3

^{***} Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

Pump tube MP-SS (stainless steel)





Materials (coming into contact with the pumped medium)

MP-SS-MS
Stainless steel (1.4571)
ETFE
Viton® (FEP coated)
Carbon, ceramic, PTFE,
Stainless steel (1.4571), HC-4 (2.4610)
Pure carbon
Stainless steel (1.4571)

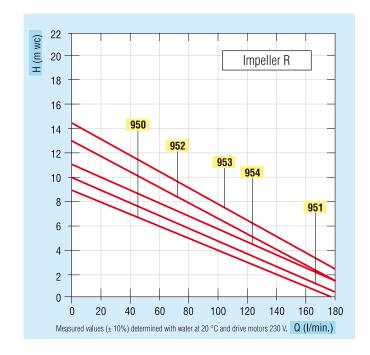
Function





Mix/Pump

Pump



Please remember that the delivery rate is reduced as the **viscosity** increases. The **density** of the pumped liquid similarly affects the delivery rate, though to a lesser extent.

Pump tube MP-SS (stainless steel)

for mixing and pumping of highly inflammable liquids

Pump tube		MP-SS MS	Product detail
Type of impeller		R	
Category 1 / 2 (acc. to ATEX)		yes	
Immersion tube diameter:	up to mm	41	
Temperature of medium:	up to °C	100	
Material:	Pump tube	1.4571	
	Impeller	ETFE	
Hose connection:	Nominal diameter mm	19-32	
	Outer thread	G 1 1/4	- 1
Length: 1000 mm***	Order No.	0151-240	
Length: 1200 mm***	Order No.	0151-255	

Choice	of motors	8		Operating data		
Output: Voltage: LVR: Order No.	ME II 3 460 W 230 V yes 0050-000	460 W 230 V no 0050-016		Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tu	950 178 9 200 1.2 9.0	
Output: Voltage: LVR: Order No.	ME II 5 580 W 230 V yes 0050-001	580 W 230 V no		Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tu	951 190 10 550 1.3 9.9	Atex
Output: Voltage: LVR:	ME II 7 795 W 230 V yes 0050-002	795 W 230 V no 0050-018		Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump tu	952 210 13 400 1.4 11.1	
Output: Voltage: LVR: Order No.	ME II 8 930 W 230 V yes 0050-042	930 W 230 V no 0050-041		Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump to	953 216 14.5 650 1.4 11.1	Low-voltage release (LVR): Prevents the pump from starting up again without warning after a power failure. In the hazardous location, motors with low- voltage release are absolutely prescribed.
Output: Operating Pressure: Order No.	MD-1 400 W 6 bar 0004-087	MD-2 400 W 6 bar 0004-088	MD-3 400 W 6 bar 0004-090	Characteristic curve no. Delivery rate* up to I/min. Delivery head* up to m wc Viscosity** up to mPas Density**** up to kg/dm³ Weight (kg) motor + pump to	954 200 11 400 1.3 4.7	

^{*} Determined with water at 20 °C ** Determined with oil

1

2

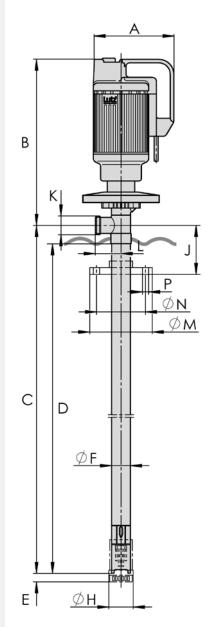
3

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^{***} Special lengths 200–2500 mm on request

^{****} Determined with 3 m hose 3/4" and open nozzle 3/4". Higher densities possible for shorter operating periods.

Table of dimensions drum and container pumps



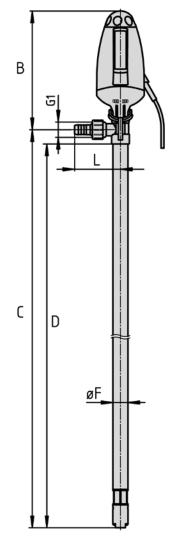
Pump tubes		С			D		Е	ØF	ØH	J	K	L	ØM	ØN	Р
Immersion depth	700	1000	1200	700	1000	1200									
PP 41	701	1001	1201	656	956	1156	22	41	56	110	G 1 1/4	58	140	110	4 x Ø14
PVDF 41	701	1001	1201	656	956	1156	22	41	56	110	G 1 1/4	58	140	110	4 x Ø14
Alu 41	701	1001	1201	656	956	1156	22	41	56	80	G 1 1/4	58	140	110	4 x Ø14
SS 41	700	1000	1200	660	960	1160	3	41	55	80	G 1 1/4	56	140	110	4 x Ø14
HC 42	-	1009	1209	-	960	1160	22	42	56	80	G 1 1/4	56	140	110	4 x Ø14
RE PP	714	1014	1214	598	898	1098	_	41	-	-	G 1 1/4	58	-	-	_
RE SS	680	980	1180	640	940	1140	-	41	-	-	G 1 1/4	56	-	-	-
MP PP	-	1001	1201	-	901	1101	_	50	-	-	G 1 1/4	58	-	-	-
MP SS	-	975	1200*	-	935	1160*	-	41	-	-	G 1 1/4	56	-	-	-

^{*}Dimension is referred to Immersion depth 1225

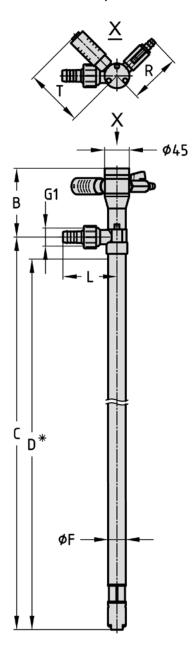
Motors	Α	В								
		PP 41	PVDF 41	Alu 41	SS 41	HC 42	RE PP	RE SS	MP PP	MP SS
MI-4	162	316	316	316	322	322	314	346	316	346
MA II 3	179	357	357	357	363	363	355	387	357	387
MA II 5	179	372	372	372	378	378	370	402	372	402
MA II 5S	179	392	392	392	398	398	390	422	392	422
MA II 7	179	396	396	396	402	402	394	426	396	426
ME II 3 🐼	179	377	377	377	383	383	375	407	377	407
ME II 5 🐼	179	392	392	392	398	398	390	422	392	422
ME II 7/8 🖘	179	416	416	416	422	422	414	446	416	446
MD-1 (Ex)	100	211	211	211	217	217	209	241	211	241
MD-2 (Ex)	159	239	239	239	245	245	237	269	239	269
MD-3 (Ex)	180	245	245	245	251	251	243	275	245	275
B4/GT-750-IP54	205	392	392	392	398	398	390	422	392	422
B4/GT-750-IP54 with protection switch	265	392	392	392	398	398	390	422	392	422

- A Width of motor
- **B** Motor to discharge centre
- **c** Foot of pump to discharge centre
- H Foot strainer diameter
- M Flange diameter
- **D** Immersion length
- J Flange bottom to centre of discharge
- N Pitch circle diameter
- E Base of pump foot to base of strainer
- **K** Discharge outer thread
- P Bolt centre flange diameter
- **F** Pump tube diameter
- ${\color{red}L} \quad \text{Pump centre to discharge end}$

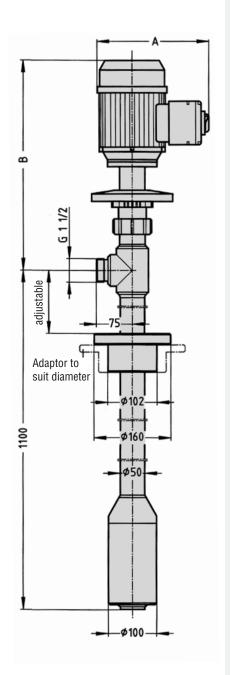
Dimensional drawing Lutz B2 Vario



Dimensional drawing Lutz B2 MD-200/MD-300



Dimensional drawing Container pump B50



	В	С			D			ØF	L
		500	700	1000	500	700	1000		
Lutz B2 Vario PP-SL 32	255	500	700	1000	460	660	960	32	98
Lutz B2 Vario SS-SL 28	266	490	690	990	450	650	950	28	83

	В	С	D	F	L	R	T
Lutz B2 MD-200 PP	133	1000	960	32	98	91	ı
Lutz B2 MD-200 Alu	133	1000	960	32	98	91	-
Lutz B2 MD-200 SS	145	990	950	28	83	91	_
Lutz B2 MD-300 PP	125	1000	960	32	98	91	104
Lutz B2 MD-300 Alu	125	1000	960	32	98	91	104
Lutz B2 MD-300 SS	137	990	950	28	83	91	104

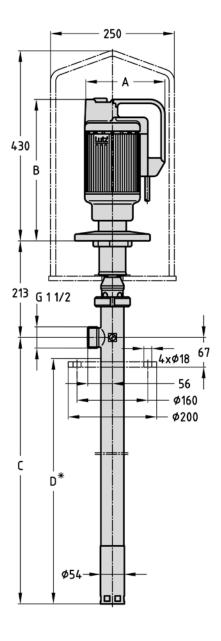
^{*}utilisable immersion depth

Output	Frame size	А	В	
0.55 kW	55 kW M 71		442	
0.75 kW	75 kW M 80		478	

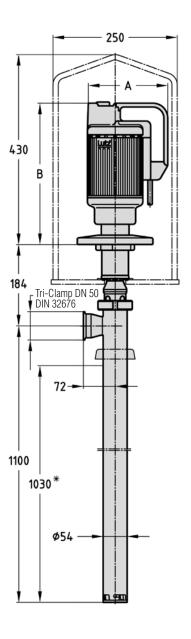
Dimensional drawing Eccentric screw pump HD-E

В

Dimensional drawing eccentric screw pump B70V-SR 12.1-50.1



Dimensional drawing Eccentric screw pump B70V-H-SR Sanitary 12.1-50.1



Condenser motor	А	В
Frame size M 80	255	435

	Α	В	()	[)
			1000	1100	1000	1100
MAII3	179	301				
MAII 5	179	316				
MAII5S	179	336				
MAII7	179	340				
ME II 3 🖘	179	321				
ME II 5 🖘	179	336				
ME II 7 🖘	179	360				
ME II 8 🖘	179	360				
MI-4	162	260				
MD-1 (Ex)	100	155				
MD-2 (Ex)	159	183				
MD-3 (Ex)	180	189				
12.1			1030	_	985	_
25.1			1030	_	985	_
50.1			_	1130	_	1085

*utilisable immersion depth

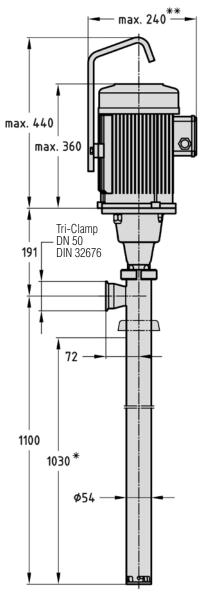
	А	В
MA II 3	179	301
MA II 5	179	316
MA II 5 S	179	336
MA II 7	179	340
MI-4	162	260
MD-1 (Ex)	100	155
MD-2 (Ex)	159	183
MD-3 (Ex)	180	189

*utilisable immersion depth

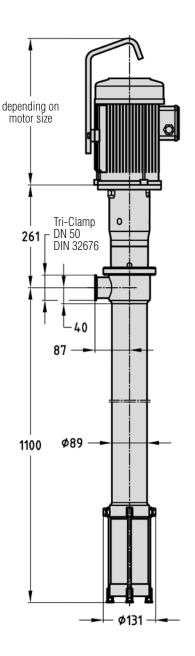
Dimensional drawing Eccentric screw pump B70V-D 12.1-75.1

max. 240*** max. 440 max. 360 212 — G 1 1/2 4xø18 ⁶⁷ 56 Ø160 Ø200 D^* ø54

Dimensional drawing Eccentric screw pump B70V-H-D Sanitary 12.1-75.1



Dimensional drawing Eccentric screw pump B70V 120.1



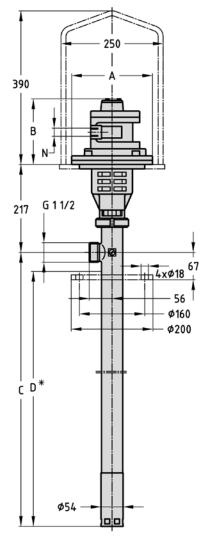
Size	12.1	25.1	25.2	50.1	75.1
Immersion depth	1000	1000	1100	1100	1100
С	1035	1035	1135	1135	1135
D	990	990	1090	1090	1090

^{*}utilisable immersion depth

- *utilisable immersion depth
- **dimension max. 350 with frequency converter or protection switch

^{**}dimension max. 350 with requency converter or protection switch

Dimensional drawing Eccentric screw pump B70V 12.1-75.1 (compressed air)



	Α	В	С		D		N
			1000	1100	1000	1100	
4 DA	Ø 160	117					G 3/8
6 DA	Ø 200	163					G 1/2
8 DA	Ø 200	199					G 1/2
12.1			1030	-	985	-	
25.1			1030	-	985	-	
25.2			-	1130	-	1085	
50.1			_	1130	_	1085	
75.1			_	1130	_	1085	

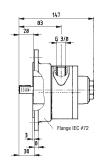
^{*}utilisable immersion depth

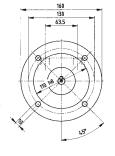
Dimensional drawing of flanges for eccentric screw pump B70V

Order No.	_	0172-850	0172-851	
Shaft length	30 - 50 mm	60 mm	40 mm, 50 mm	
Shaft diameter	14 mm, 19 mm, 24 mm	28 mm	19 mm, 24 mm	
FIAITIE SIZE V TO	985 985 900 10 thick	98.5 98.5 98.5 10 thick	95 20 12 thick	
Motor connecting dimensions Frame size V18	Standard construction 90 S	Adapter flange for three-phase motors	Adapter flange for compressed air motors (6 DA and 8 DA)	

Dimensions of compressed air motors for eccentric screw pump B70V

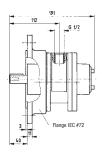
Type 4 DA

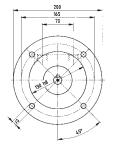






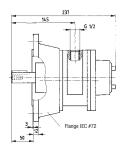
Type 6 DA

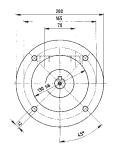






Type 8 DA







Customer Service

To ensure that you can operate and service your Lutz pump or motor, where ever you are, or else need some more information concerning your purchase, we have available on the internet under the title 'Service', test and CE Conformity certificates, spare part lists, data sheets and dimensional drawings, all of which may be downloaded. If you have misplaced your operating manual or need a second copy, we would be pleased to send you another. In any

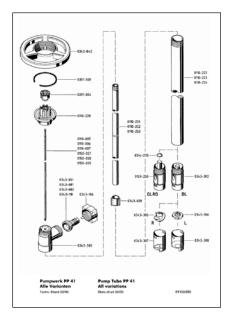
Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

17. EC-TYPE-EXAMINATION CERTIFICATE
(Translation)

28. Eleganet and Pluricetive Systems Mendelet für Ube in
Plettingt Coptione Amangher - Derector Selfect

29. Ecopere seamment on Onlinean Number
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Test certificate



Spare part list

case should you feel more comfortable calling or writing to us directly for any advice, please do so. We look forward to hearing from you.



Data sheet



Operating instruction



Professional Fluid Management

Founded in 1954 Lutz Pumpen has distinguished itself by producing quality products, and has built up a sound reputation for safety in the pumping field led by its expertise in the drum and container market. Successively, other products have been added in order to cater to the needs of our customers. We are indebted to all our loyal customers who have often been the source of our many innovations, as we sought to provide them with the solutions they required.

In this brochure, we would like to take this opportunity to give you an overview of our product range. Naturally, we welcome any enquiries you may have, so please do not hesitate to contact us or one of our offices or distributors for further help or assistance.

Lutz is represented world wide in over sixty countries. Our distributors are trained by us and are ready to assist you. To find out more please see our web site www.lutz-pumpen.de



Lutz representation world wide:

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Saudi Arabia

India

Serbia Singapore Slovakia Slovenia South Africa Spain Sri Lanka Sweden Switzerland Syria Taiwan Thailand Tunisia Turkey Turkmenistan Ukraine U.A.E. USA Usbekistan Venezuela Vietnam

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