

Safety



Economy

Diversity

4

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	
Container pump B50	
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	
Eccentric screw pump B70V 25.2 and 50.1	
Eccentric screw pump B70V 75.1	
Eccentric screw pump B70V 120.1	34
B70V-H-SR Sanitary 12.1, 25.1 and 50.1	
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	
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	
Lutz pump sets	
Choice of motors	
Accessories	
Pump tube SS (stainless steel) for highly inflammable liquids	62
Pump tube HC (Hastelloy C) for highly inflammable chemicals	
Pump tube RE-SS (stainless steel) for complete drum drainage of highly inflammable liquids	
Pump tube MP-SS (stainless steel) for mixing and pumping of highly inflammable liquids	68
Tomp tobe mit-55 (stanness steer) for mixing and pumping of nighty milatimatic riquids	00
TH (P	70
Table of dimensions drum and container pumps	70 71
Dimensional drawing Lutz B2 Vario	
Dimensional drawing Lutz B2 MD-200/MD-200	
Dimensional drawing container pump B50 Dimensional drawing Eccentric screw pump HD-E	
Dimensional drawing eccentric screw pump B70V-SR / B70V-H-SR Sanitary 12.1-50.1	
Dimensional drawing Eccentric screw pump B70V-D / B70V-H-D Sanitary 12.1-75.1	73
Dimensional drawing Eccentric screw pump B70V-D7 B70V-H-D Saintary 12:1-73:1	73 73
Dimensional drawing Eccentric screw pump B70V-120.1 Dimensional drawing Eccentric screw pump B70V-SR 12.1-75.1 (compressed air)	
Dimensional drawing of flanges for eccentric screw pump B70V	
Dimensions of compressed air motors for eccentric screw pump B70V	74 74
numensions of compressed an indicits for eccentric sciew homb place	74

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.



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.

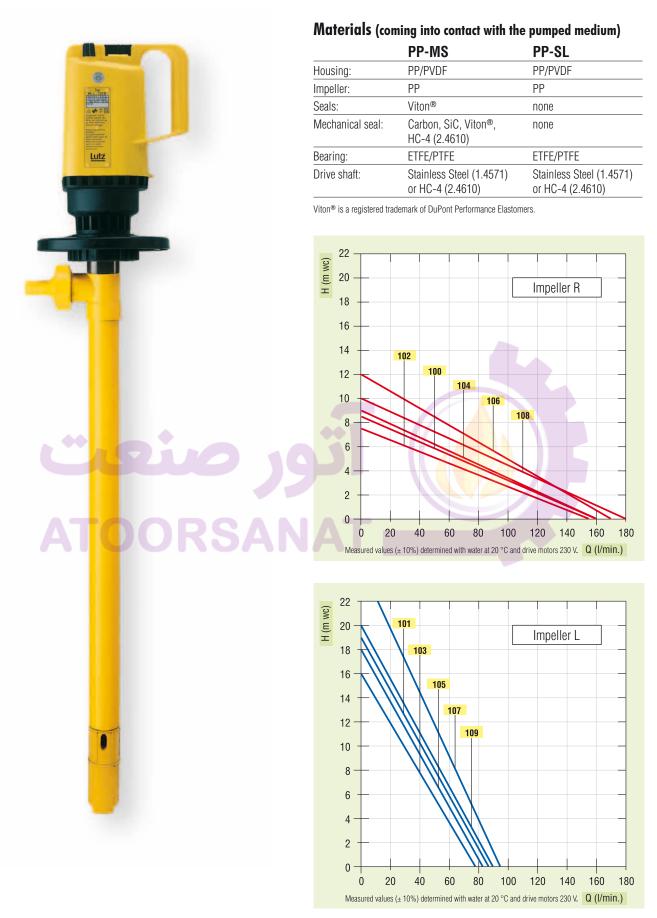
l

2

3



Pump tube PP (polypropylene)





Pump tube PP (polypropylene)

for corrosive and neutral liquids

Pump tube						PP-	MS	PP	-SL	Product detail
Type of impeller						R	L	R	L	2
	1 / 2 (acc. to ATI	EX)				no	no	no	no	-
Immersion tube diameter:			up to mm		41	41	41	41	7	
Temperature 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	haft SS		Order No.		0103-501	0103-505	0110-301	0110-305	
Length: 12	200 mm*** s	haft SS		Order No.					0110-306	
Length: 7	700 mm*** s	haft HC		Order No.			0103-404			<u> </u>
-)00 mm*** s			Order No.					0110-205	
Length: 12	200 mm*** s	haft HC		Order No.		0103-402	0103-406	0110-202	0110-206	
Length: 14	100 mm*** s	haft HC		Order No.		-	-		0110-208	
	500 mm*** s			Order No.		-	-		0110-209	
	800 mm*** s			Order No.		-	-		0110-210	
Length: 17	700 mm*** s	haft HC		Order No.		-	-	0110-216	0110-211	
Length: 20)00 mm*** s	haft HC		Order No.		-	-	0110-217	0110-212	
Choice	of motors	3		Operating	data					
	MI-4	MI-4-E		Characteristic	curve no.	100	101	100	101	
	-	with speed		Delivery rate*		160	87	160	87	
		controller		Delivery head*	up to m wc	8.5	19	8.5	19	
Output	500 W	500 W		Viscosity**	up to mPas	150	500	150	500	Name of Street, or other Persons and Street,
Voltage:	230 V	230 V		Density****	up to kg/dm³	1.1	1.4	1.1	1.4	1000
Order No.	0030-000	0030-001		Weight (kg)	motor + pump tube	3.9	3.9	3.9	3.9	
	MAII 3			Characteristic	curve no	102	103	102	103	
Output:	460 W	460 W		Delivery rate*		155	78	155	78	
Voltage:	230 V	230 V		Delivery head		7.5	16	7.5	16	FILE
LVR:	no	yes		Viscosity**	up to mPas	150	500	150	500	
				Density****	up to kg/dm³	1.2	1.6	1.2	1.6	
Order No.	0060-000	0060-008		Weight (kg)	motor + pump tube	5.7	5.7	5.7	5.7	
	MA II 5	MA II 5	MAII 5 S	Characteristic	ouruo no	104	105	104	105	
Output:	575 W	575 W	575 W	Characteristic Delivery rate*		104 160	105 83	104 160	105 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	6.5	6.5	6.5	6.5	
	N/A !! 7			01 1 1 1		100	467	100	467	
Outer	MA II 7	70E W		Characteristic		106	107	106	107	
Output: Voltage:	795 W 230 V	795 W 230 V		Delivery rate* Delivery head*		170 12	95 25	170 12	95 25	Low-voltage release (LVR):
Voltage: LVR:	230 V NO	yes		Viscosity**	up to m wc up to mPas	350	25 800	350	800	Prevents the pump from starting up again without warning after a
LVII.	110	y 0.3		Density****	up to meas 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	7.7	7.7	7.7	7.7	when pumping hazardous liquids.
										1
	MD-1	MD-2		Characteristic		108	109	108	109	
	400 W	400 W		Delivery rate*	up to I/min.	180	90	180	90	
Output:	400 W			D !!		4.0	0.0		0.0	
Operating				Delivery head*		10	20	10	20	
		6 bar		Delivery head* Viscosity** Density***	up to m wc up to mPas up to kg/dm³	10 600 1.3	20 850 1.8	10 600 1.3	20 850 1.8	and a second

^{*} 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.



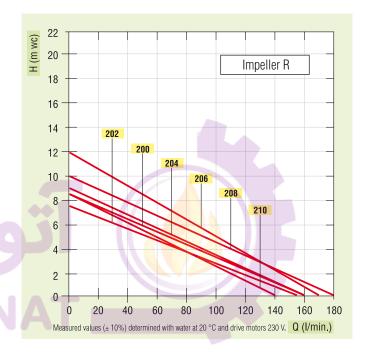
Pump tube PVDF (polyvinylidene fluoride)

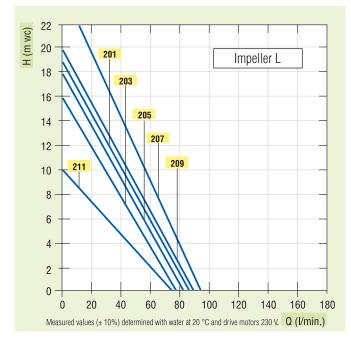


Materials (coming into contact with the pumped medium)

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

Viton® is a registered trademark of DuPont Performance Elastomers.







Pump tube PVDF (polyvinylidene fluoride)

for highly corrosive chemicals and neutral liquids

Pump tube	np tube				PVD	F-MS	PVD	F-SL	Product detail	
Type of impeller					R	L	R	L	2	
Category 1 / 2 (acc. to	ATEX)				no	no	no	no		
Immersion tube diam	eter:		up to mm		41	41	41	41		
Temperature of media	ım:		up to °C		100	100	100	100		
Material:			Pump tube		PVDF	PVDF	PVDF	PVDF		
			Impeller		ETFE	ETFE	ETFE	ETFE		
Hose connection:			Nominal diame	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: 700 mm***			Order No.		0123-400	0123-404	0122-200	0122-204		
Length: 1000 mm***			Order No.		0123-401	0123-405	0122-201	0122-205		
Length: 1200 mm***			Order No.		0123-402	0123-406	0122-202	0122-206		
Choice of moto	rs		Operating	data						
MI-4	MI-4-E		Characteristic (curve no.	200	201	200	201		
-	with speed		Delivery rate*	up to I/min.	160	87	160	87		
_	controller		Delivery head*		8.5	19	8.5	19		
Output: 500 W	500 W		Viscosity**	up to mPas	150	500	150	500	The same of the sa	
Voltage: 230 V Order No. 0030-00	230 V 0 0030-001		Density****	up to kg/dm³	1.1 4.5	1.4 4.5	1.1 4.5	1.4		
Older No. 0030-00	0 0030-001		Weight (kg)	motor + pump tube	4.0	4.3	4.3	4.0		
MA II 3	00		Characteristic	curve no.	202	203	202	203		
Output: 460 W	460 W		Delivery rate*	up to I/min.	155	78	155	78		
Voltage: 230 V	230 V		Delivery head*		7.5	16	7.5	16	<u>uta</u>	
LVR: no	yes		Viscosity**	up to mPas	150	500	150	500		
Order No. 0060-00	0 0060-008		Density**** Weight (kg)	up to kg/dm³	1.2 6.3	1.6 6.3	1.2 6.3	1.6 6.3		
Older No. 0000-00				motor + pump tube	0.3	0.3	0.3	0.3		
MA II 5	MA II 5	MAII 5 S	Characteristic (curve no.	204	205	204	205		
Output: 575 W	575 W	575 W	Delivery rate*	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. 0060-00	1 0060-009			motor + pump tube	7.1	7.1	7.1	7.1		
MA II 7				· · ·				007		
	70E W		Characteristic		206	207	206	207		
Output: 795 W Voltage: 230 V	795 W 230 V		Delivery rate* Delivery head*	up to I/min. up to m wc	170 12	95 25	170 12	95 25	Low-voltage release (LVR):	
LVR: no	yes		Viscosity**	up to m wc	350	800	350	800	Prevents the pump from starting up again without warning after a	
	,		Density****	up to kg/dm³	1.4	1.9	1.4	1.9	power failure. It's recommended when pumping hazardous liquids.	
Order No. 0060-00	2 0060-010		Weight (kg)	motor + pump tube	8.3	8.3	8.3	8.3	mon pamping nazaraous nydias.	
MD-1	MD-2		Characteristic	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	SALES OF THE PARTY	
Pressure: 6 bar	6 bar		Viscosity**	up to mPas	600	850	600	850	11	
	7 000/1_000		Density**** Weight (kg)	up to kg/dm³ motor + pump tube	1.3 3.2	1.8 3.2	1.3 3.2	1.8 3.2	-	
Order No. nnn4-ns	/ UUU4-1100		3 (3)	l						
Order No. 0004-08	7 0004-000		01		040	044	040	044		
B4/GT			Characteristic		210 140	211 75	210 140	211 75		
B4/GT Output: 750 W	750 W		Delivery rate*	up to I/min.	140	75	140	75		
B4/GT Output: 750 W Voltage: 230/400	750 W		Delivery rate* Delivery head*	up to I/min. up to m wc	140 8.5	75 10	140 8.5	75 10		
B4/GT Output: 750 W	750 W		Delivery rate*	up to I/min.	140	75	140	75		

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

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.

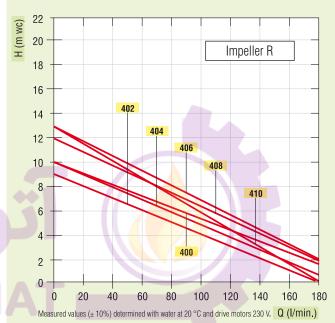


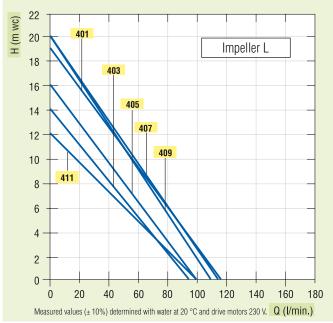
Pump tube SS (stainless steel)



Materials (coming into contact with the pumped medium)

	SS-MS	SS-SL
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Impeller:	ETFE	ETFE
Seals:	Viton®	none
Mechanical seal:	Carbon, ceramic, Viton®, stainless steel	none
Bearing:	Pure carbon	Pure carbon
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)







Pump tube SS (stainless steel)

for corrosive and neutral liquids

Pump to	np tube				SS-	MS	SS	-SL	Product detail	
Type of im	peller					R	L	R	L	w.
	I / 2 (acc. to ATE	EX)				yes	yes	yes	yes	
Immersion	tube diamete	er:		up to mm		41	41	41	41	71
	re of medium			up to °C		100	100	100	100	
Material:	io oi illoululli			Pump tube		1.4571	1.4571	1.4571	1.4571	- 11
iviatoriai.				Impeller		ETFE	ETFE	ETFE	ETFE	
Hose conn	ection:			Nominal diame	ter mm	19-32	19-32	19-32	19-32	- 11
				Outer thread		G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	ll ll
Length: 7	700 mm***			Order No.				0150-000		
Length: 10				Order No.		0151-001	0151-004	0150-001	0150-004	
Length: 12				Order No.		0151-002	0151-005	0150-002	0150-005	- 111
Length: 14				Order No.		-	-	0150-113	0150-108	
Length: 15				Order No.		-	-	0150-114	0150-109	
Length: 16				Order No.		-	-	0150-115	0150-110	
Length: 17				Order No.		-	-	0150-116	0150-111	
Length: 20				Order No.		-	-		0150-112	
				0 "						
Choice	of motors			Operating	uata					
	MI-4	MI-4-E		Characteristic o		400	401	400	401	
	-	with speed			up to I/min.	210	117	210	117	
0	500 11/	controller		Delivery head*		10	19	10	19	
Output:	500 W	500 W		Viscosity** Density****	up to mPas	350	500	350	500	THE REAL PROPERTY.
Voltage: Order No.	230 V 0030-000	230 V 0030-001		Weight (kg)	up to kg/dm³ motor + pump tube	1.1 5.7	1.4 5.7	1.1 5.7	1.4 5.7	NAME OF TAXABLE PARTY.
Older No.	_	0000 001								
	MAII 3			Characteristic of		402	403	402	403	
Output:	460 W	460 W			up to I/min.	178	95	178	95	
Voltage:	230 V	230 V		Delivery head*		9 200	14 350	9 200	14 350	Lane Lane
LVR:	no	yes			up to mPas up to kg/dm ³	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	
0.40.110.	MA II 5	MA II 5	MAII5S							
Output				Characteristic of		404	405	404	405	
Output: Voltage:	575 W 230 V	575 W 230 V	575 W 230 V	Delivery rate* Delivery head*	up to I/min. up to m wc	190 10	100 16	190 10	100 16	
LVR:	no	yes	no	Viscosity**	up to mPas	550	700	550	700	
		,	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	8.3	8.3	8.3	8.3	
	MA II 7			Characteristic	urvo no	406	407	406	407	
Output:	795 W	795 W		Characteristic of Delivery rate*	urve 110. up to I/min.	210	115	210	115	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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
				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	0060-010		Weight (kg)	motor + pump tube	9.5	9.5	9.5	9.5	mon pamping nazaraous iiquius.
	MD-1	MD-2		Characteristic o	urve no.	408	409	408	409	
Output:	400 W	400 W		,	up to I/min.	210	110	210	110	
Operating	0.1	0.1			up to m wc	12	20	12	20	
Pressure:	6 bar	6 bar		Viscosity**	up to mPas	400	500	400	500	11, 11,
Order No.	0004 007	0004-088		Density**** Weight (kg)	up to kg/dm³ motor + pump tube	1.3 4.4	1.8 4.4	1.3 4.4	1.8 4.4	5
Order No.		0004-008								
Outered	B4/GT	7EO M		Characteristic of		410	411	410	411	
Output:	750 W 230/400 V	750 W		,	up to I/min.	180 13	100 12	180 13	100 12	
Voltage:	23U/4UU V	230/400 V		Delivery head* Viscosity**	up to m wc up to mPas	400	500	400	500	ALCOHOL:
Protection				VISCUSILY	UU IU IIIE da	700	500	400	500	The second secon
Protection switch:	no	yes		Density****	up to kg/dm³	2.0	2.2	2.0	2.2	0 "

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

1

2

^{***} 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

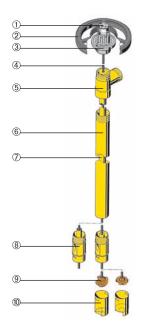




The modular concept behind the construction of the Lutz drum pump, provides not only for fixed installations, but also assures a great degree of flexibility in movement. The hand wheel makes the pump easy to carry and provides a simple but quick means of coupling and un-coupling the motor.

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)





Pump tube Alu (aluminium)

for neutral, non flammable liquids

Pump tı	tube					Alu	-MS	Alu	ı-SL	Product detai	
Type of imp	peller					R	L	R	L	-	
	/ 2 (acc. to ATI	EX)				no	no	no	no		
	tube diamet			up to mm		41	41	41	41		
emneratur	re of medium	ı.		up to °C		100	100	100	100		
Naterial:	io oi illoalali			Pump tube		Alu	Alu	Alu	Alu		
viatoriai.				Impeller		ETFE	ETFE	ETFE	ETFE		
lose conn	ection:			Nominal diame	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		
ength: 7	'00 mm***			Order No.		0133-500	0133-504	0132-300	0132-304		
ength: 10	00 mm***			Order No.		0133-501	0133-505	0132-301	0132-305		
ength: 12	00 mm***			Order No.		0133-502	0133-506	0132-302	0132-306		
ength: 15	00 mm***			Order No.		-	-	-	0132-309	- 1	
Choice	of motors	3		Operating	data						
	MI-4	MI-4-E		Characteristic	curve no	300	301	300	301		
	-	with speed		Delivery rate*	up to I/min.	160	87	160	87		
		controller		Delivery head*		8.5	19	8.5	19		
Output:	500 W	500 W		Viscosity**	up to mPas	150	500	150	500	No. of Lot	
/oltage:	230 V	230 V		Density****	up to kg/dm³	1.1	1.4	1.1	1.4	1000	
order No.	0030-000	0030-001		Weight (kg)	motor + pump tube	4.3	4.3	4.3	4.3		
	MAII3	00		Characteristic	curve no	302	303	302	303		
Output:	460 W	460 W		Delivery rate*		155	78	155	78		
/oltage:	230 V	230 V		Delivery head*		7.5	16	7.5	16	Lutz	
VR:	no	yes		Viscosity**	up to mPas	150	500	150	500		
		,		Density****	up to kg/dm³	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	curve no	304	305	304	305		
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	,	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		
	MAII 7			Characteristic	curvo no	306	207	306	307		
Output:	795 W	795 W		Delivery rate*	up to I/min.	170	307 95	306 170	95		
/oltage:	230 V	230 V		Delivery head*		12	25	12	25	Low-voltage release (LVR):	
VR:	no	yes		Viscosity**	up to m we	350	800	350	800	Prevents the pump from 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	curve no	308	309	308	309		
Output:	400 W	400 W		Delivery rate*	up to I/min.	180	90	180	90		
Operating				Delivery head*		100	20	100	20	THE REAL PROPERTY AND ADDRESS OF THE PERSON	
Pressure:	6 bar	6 bar		Viscosity**	up to mPas	600	850	600	850	1001	
				Density****	up to kg/dm³	1.3	1.8	1.3	1.8		
Order No.	0004-087	0004-088		Weight (kg)	motor + pump tube	3.0	3.0	3.0	3.0		
	B4/GT			Characteristic	curve no	310	311	310	311		
Output:	750 W	750 W		Delivery rate*	up to I/min.	140	75	140	75		
/oltage:	230/400 V			Delivery head*		8.5	10	8.5	10		
Protection	100, 100 1	200/ 100 V		Viscosity**	up to m we	400	400	400	400		
	no	yes		Density****	up to kg/dm ³	2.0	2.2	2.0	2.2	0 1	
witch:				,							

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

2

J

^{***} 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.



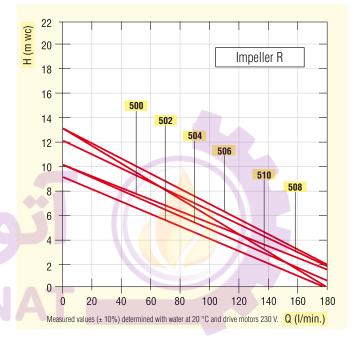
Pump tube HC (Hastelloy C)

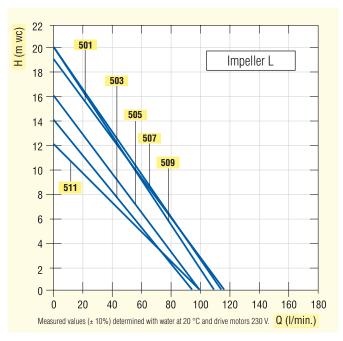


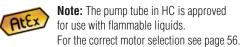
Materials (coming into contact with the pumped medium)

HC-SL	
HC-22 (2.4602)	
ETFE	
Viton® (FEP coated)	
ETFE, Carbon	
HC-4 (2.4610)	
	HC-22 (2.4602) ETFE Viton® (FEP coated) ETFE, Carbon

Viton® is a registered trademark of DuPont Performance Elastomers.









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	mad I			
Immersion tube diameter:	up to mm	42	42				
Temperature of medium:	up to °C	120	120	ll ll			
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.	0162-201	0162-204	ll ll			
Length: 1200 mm***	Order No.	0162-202	0162-205				

Choice o	f motors	}		Operating	data			
Output: 5 Voltage: 2	MI-4 - 500 W 230 V 0030-000	MI-4-E with speed controller 500 W 230 V 0030-001		Characteristic of Flow rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	500 210 10 350 1.1 7.2	501 117 19 500 1.4 7.2	
Output: 4 Voltage: 2 LVR.: r	MA II 3 460 W 230 V 10	460 W 230 V yes 0060-008	00	Characteristic of Flow rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	502 178 9 200 1.2 9.0	503 95 14 350 1.6 9.0	
Output: 5 Voltage: 2 LVR.: r	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 Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	504 190 10 550 1.3 9.8	505 100 16 700 1.8 9.8	
Output: 7 Voltage: 2 LVR.: r	MA II 7 795 W 230 V no	795 W 230 V yes		Characteristic of Flow rate* Delivery head* Viscosity** Density**** Weight (kg)	up to I/min.	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-	MD-1 400 W 6 bar 0004-087	MD-2 400 W 6 bar 0004-088		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: r	10	750 W 230/400 V yes 0004+067		Characteristic of Flow rate* Delivery head* Viscosity** Density*** Weight (kg)	up to I/min.	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

^{***} 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





Container pump B50

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.

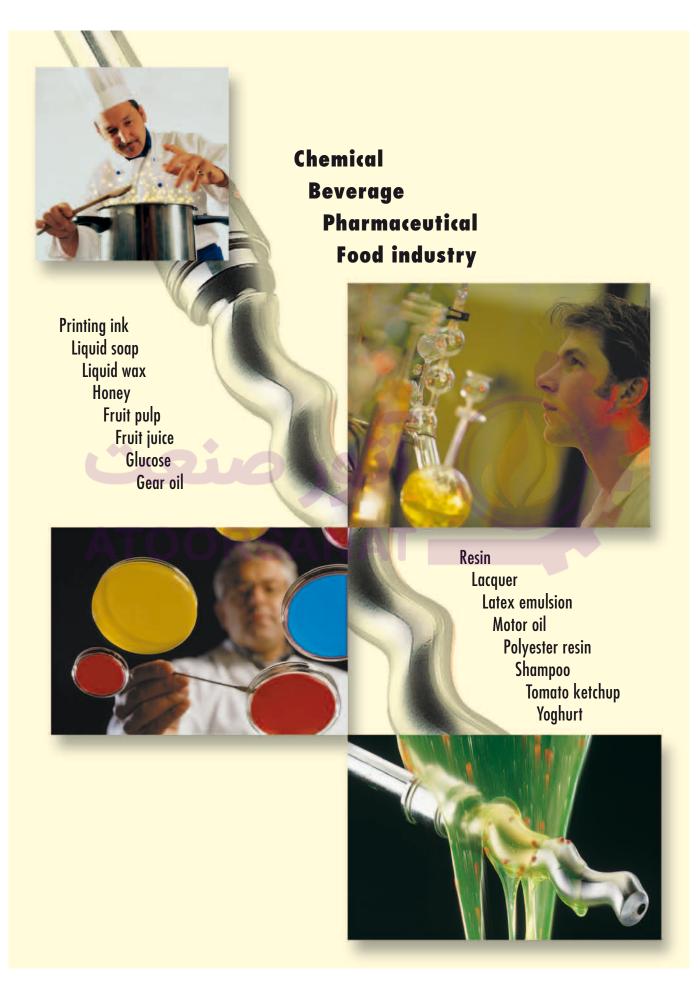
Container pump		B50 PP/HC	B50 PP/SS
Category 1 / 2 (acc. to ATEX)		no	no
Immersion tube diameter:	max. mm	100	100
Temperature of medium:	max. °C	40	40
Material:	Pump tube	PP	PP
	Impeller/diffuser material	PPO / PPE	PPO / PPE
	Drive shaft	Hastelloy C (2.4610)	Stainless steel (1.4571)
Outrun piece:		G 1 1/2	G 1 1/2
		Outer thread	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.

2



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. Bearing head with mechanical seal Compact unit for bearing and bearing shaft Wide range of mechanical seals Easy detachable pump tube Easy cleaning No tools for disassembling of pump Free running drive shaft Easy to clean **Pump tubes in physiologically** safe version (FDA) Rotor All materials coming into contact with the pumped medium Smooth pumping of liquids are FDA approved materials. High pressure Constant volumetric flow



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	
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 motors		Operating data		
Voltage: 23 Speed: 15 Protection class: IP	0 V 00 1/min.	Delivery rate up to I/min. Delivery head up to bar Viscosity up to mPas Weigth(kg) motor + pump tut	20 4 500-4000 ne 11.5	

Motors in special voltages and frequencies on request.

i

2

3

/



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



Materials (coming into contact with the pumped medium)

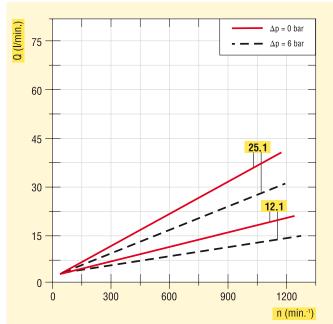
	B70V-SR 12.1/25.1	B70V HD-SR 12.1/25.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)
Mechanical seal:	Carbon/CrMo-Casting, Viton®	WC/WC/EPDM
Packing gland:	PTFE Soft packing safe for use with foodstuffs	-
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.





Lutz Eccentric screw pump B70V-SR 12.1 and 25.1

for viscosities from 1 - 40,000 mPas

Pump tube	ump tube B70V-SR					Product det		
Size		12.1	12.1	12.1	25.1	25.1	25.1	+
Seal Packing glar Mechanical	`'-\	MS	MS	St	MS	MS	St	A
Drive shaft Torsion shaft Universal joi	t (TS) int shaft (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 medium**	up to °C	140	140	140	140	140	140	
Material pump tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	
Immersion tube diamete	r mm	54	54	54	54	54	54	
Pressure joint	Outer thread	G 1 1/2	G 1 1/2	V				
Weight	kg	7	7	7	7	7	7	-
Length***	mm	1000	1000	1000	1000	1000	1000	***
Stator NBR light (T max. 80 °C)	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 (Tmax. 100 °	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	MAII 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 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
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 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



Different voltages and frequencies see page 56-57.



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



Materials (coming into contact with the pumped medium)

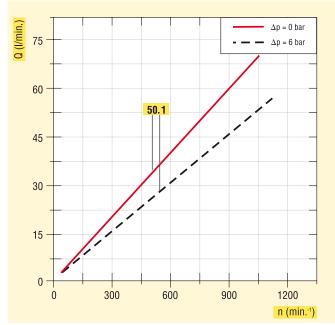
	B70V-SR 50.1	B70V HD-SR 50.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)
Mechanical seal:	Carbon/CrMo-Casting, Viton®	WC/WC/EPDM
Packing gland:	PTFE Soft packing	_
	safe for use with foodstuffs	
Drive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





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

for viscosities from 1 - 40,000 mPas

oump tube		B70V-SR	
Size	50.1	50.1	50.1
Packing gland (St) Mechanical seal (MS)	MS	MS	St
Orive shaft Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	UJ
Delivery rate* up to I/mi	n. 50	50	50
Delivery head* up to bar	8	8	8
emp. of medium** up to °C	140	140	140
Material pump tube	1.4571	1.4571	1.4571
mmersion tube diameter mm	54	54	54
ressure joint Outer thre	ad G 1 1/2	G 1 1/2	G 1 1/2
/eight kg	7	7	7
ength*** mm	1100	1100	1100
rator NBR light Order No. max. 80 °C)	0174-511	0174-521	0174-501
Stator Viton Order No. T max. 140 °C)	0174-512	0174-522	0174-502
Stator PTFE Order No. T max. 140 °C)	0174-514	0174-524 •	0174-504
B70V HD-SR Stator PTFE (Tmax. 100 °C)		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	MA II 3	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)

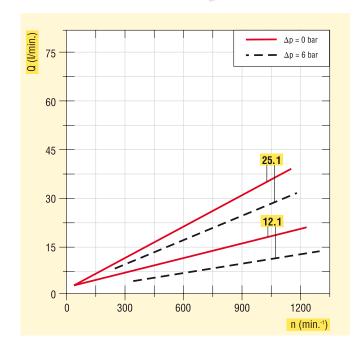
	B70V 12.1/25.1	B70V 25.1 Steel	B70V HD 12.1/25.1
Housing:	Stainless steel (1.4571)	galvanized steel	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	soft-nitrided steel	Stainless steel (1.4571)
Seals:	FPM (Viton®) FPM (Viton®)	FPM (Viton®)	
Mechanical seal:	Carbon/CrMo-Casting, Viton® (optional SIC/SIC, Viton®)	Carbon/CrMo-Casting, Viton® (optional SIC/SIC, Viton®)	WC/WC/EPDM
Packing gland:	PTFE Soft packing safe for use with foodstuffs	-	-
Drive shaft:	Stainless steel (1.4571)	galvanized steel	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	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 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 s	(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

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)

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

0172-821

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





Choice of motors

Air supply thread

Order No.

Choice of motors							
Motors with cable terminal box	For B70V - 12.1			For B70	V - 25.1		
Type	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.	
Protection class/Weight	IP 55 15.7 kg	IP 55	11.3 kg	IP 55 1	15.7 kg	IP 55 17.3 kg	
Order No.	0172+803	0172	+806	0172+80	09	0172+812	1
Motors with protection switch	For B70V - 12.1			For B70	V - 25.1		क्षा 🚪 🥇
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.	9 8
Protection class/Weight	IP 54 15.7 kg	IP 54	11.3 kg	IP 54 1	15.7 kg	IP 54 17.3 kg	
Order No.	0172+802	0172	+805	0172+8	08	0172+811	
Motors, explosion proof	For B70V - 12.1			For B70	V - 25.1		Three-phase motor
Туре	0.37 kW, 700 1/min.	0.55	kW, 900 1/min.	0.55 kW,	700 1/min.	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 1	l8 kg	IP 54 15.3 kg	to directive 2005/32/EC.
Order No.	0172-801	0172	2-804	0172-80)7	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, 0-90	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 54 13.5 I	kg	IP 54	15 kg	classes on request.
Order No.	0172-769		0172-769		0172	-768	
Compressed air motors	For B70V - 12.1			For B70	V - 25.1		
Туре	4 DA, 0.45 kW, 900 1	4 DA , 0.45 kW, 900 1/min., weight 5 kg,		6 DA, 1.0 kW, 900 1/min., weight 10 kg,			
	operating pressure at	6 bar,		operating pressure at 6 bar,			
			air consumption 80 Nm ³ /h, 87 dB (A)				

G 1/2

0172-822





Eccentric screw pump B70V 25.2 and 50.1



Materials (coming into contact with the pumped medium)

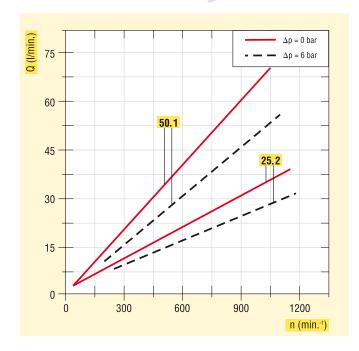
	B70V 25.2/50.1	B70V HD-D25.2/50.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)
Mechanical seal:	Carbon/CrMo-Casting, Viton®	WC/WC/EPDM
Packing gland:	PTFE Soft packing	-
	safe for use with foodstuffs	
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				B7	70V		
Size		25.2	25.2	25.2	50.1	50.1	50.1
Seal Packing gland Mechanical se	(St) al (MS)	MS	MS	St	MS	MS	St
Drive shaft Torsion shaft Universal joint	(TS) shaft (UJ)	TS	UJ	UJ	TS	UJ	UJ
Delivery rate*	up to I/min.	25	25	25	50	50	50
Delivery head*	up to bar	10	10	10	8	8	8
emp. of medium**	max. °C	140	140	140	140	140	140
Material pump tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571
mmersion tube diameter	mm	54	54	54	54	54	54
ressure joint	Outer thread	G 1 1/2					
/eight	kg	7	7	7	7	7	7
ength***	mm	1100	1100	1100	1100	1100	1100
ator NBR light max. 80 °C)	Order No.	-	-	-	0172-501	0173-511	0173-501
tator Viton® Fmax. 140 °C)	Order No.	-	-	-	0172-502	0173-512	0173-502
Stator PTFE (Tmax. 140 °C)	Order No.	0172-254	0173-264	0173-254	0172-504	0173-514	0173-504
370V 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.

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 -	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	P d
Motors with protection switch	For B70V - 25.2 and B70V -	50.1		4 en 🚪 🥍
Туре	0.75 kW, 700 1/min.	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.	· S
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 motor
Туре	0,65 kW, 700 1/min.	1,0 kW, 900 1/min.		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,
Туре	0,75 kW, 0-900 1/min.	1,1 kW, 0-900 1/min.		frequencies, protection 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).

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



Eccentric screw pump B70V 75.1



Materials (coming into contact with the pumped medium)

	B70V 75.1
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)

Viton® is a registered trademark of DuPont Performance Elastomers.

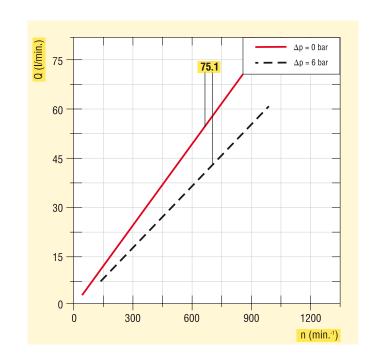
NBR light, Viton®, PTFE

Stator material:

Important Information!

Viscosity range from aqueous to fluidity range.

RSANAT

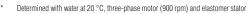




Lutz Eccentric screw pump B70V 75.1

for viscosities from 1 - 100,000 mPas

Pump tube		B70V	Product detail
Size		75.1	THE STATE OF THE S
Seal Mechanical seal	(MS)	MS	
Drive shaft Universal joint sh	naft (UJ)	UJ	- T
Delivery rate*	up to I/min.	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 thread	G 1 1/2	
Weight	kg	7	
Length***	mm	1100	1.
Stator NBR light	Order No.	0173-561	
(Tmax. 80 °C)			kto
Stator Viton	Order No.	0173-562	
(Tmax. 140 °C)			
Stator PTFE	Order No.	0173-564	
(Tmax. 140 °C)			



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

Choice of motors

Motors with cable terminal box	For B70V - 75.1	MAT -	
Type	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 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).



1

2

3

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



Eccentric screw pump B70V 120.1



Materials (coming into contact with the pumped medium)

	B/UV 12U.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:

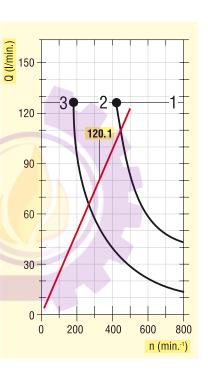
Abrasive and viscous fluids such as pulps, adhesives, paints, inks, etc. η < 20,000 mPas

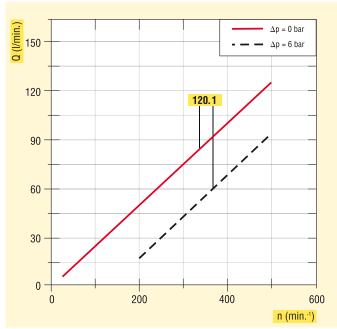
Range 3:

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	480
Category 1 / 2 (acc. to ATEX)	no	
Seal Mechanical seal (MS)	MS	1
Drive shaft Universal joint shaft (UJ)	UJ	2 1
Delivery rate* up to I/min.	120	711
Delivery head* up to bar	6	1111
Temp. of medium** max. °C	140	
Material pump tube	1.4571	
Immersion tube diameter*** max. mm	131	III
Pressure joint Outer thread	Tri Clamp DN 50 (DIN 32676)	4 114
Weight kg	15	L IV
Length**** mm	1100	4
Stator NBR light (Tmax. 80 °C) Order No.	0175-201	r.q.
Stator PTFE Order No. (Tmax. 140 °C)	0175-204	

- * $\,\,$ Determined with water at 20 °C, three-phase motor (600 rpm and 700 rpm) and elastomer stator
- ** with PTFE Stator
- *** required bung hole Ø 133 mm
- **** Special length 500 2500 mm on request

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



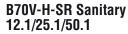
2

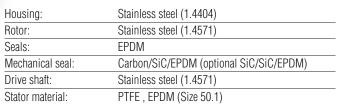
3



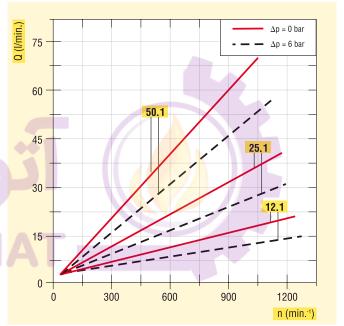


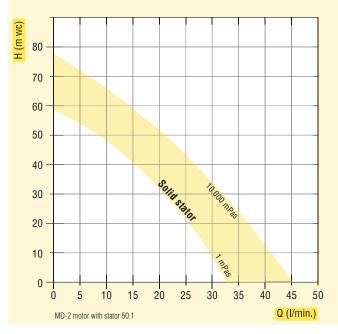














Lutz Eccentric screw pump

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

	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	= 1
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	
Stator EPDM Order No. –	-	0174-516	-
Stator PTFE Order No. 0174-017	0174-137	0174-517	

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

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 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)		-7	0060-008	0060-009	0060-010
Motors in special voltages and frequencies on reque	st.				



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





EC 1935/2004

Materials (coming into contact with the pumped medium)

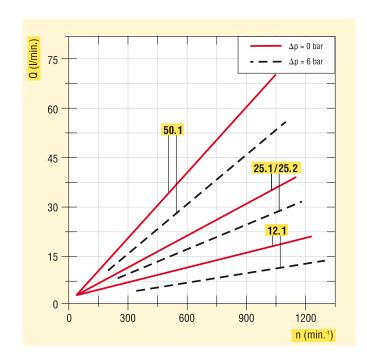
B70V-H-D Sanitary 12.1/25.1/25.2/50.1

Stainless steel (1.4404)
Stainless steel (1.4571)
EPDM
Carbon/SiC/EPDM (optional SiC/SiC/EPDM)
Stainless steel (1.4571)
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

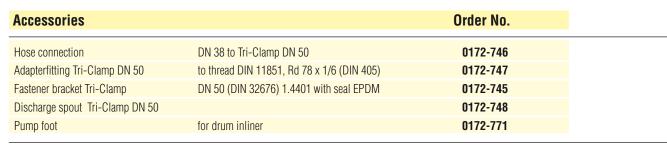
Pump tube	ube B70V-H-D Sanitary					Product detail
Size		12.1	25.1	25.2	50.1	1007
Seal Mechanical sea	al (MS)	MS	MS	MS	MS	
Delivery rate*	up to I/min.	12	25	25	50	1
Delivery head*	up to bar	6	6	10	8	
Temp. of medium	max. °C	100	100	100	100	
Material pump tube		1.4404	1.4404	1.4404	1.4404	
Immersion tube 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	VI.
Stator PTFE	Order No.	0172-007	0172-127	0172-257	0172-507	-1
* Determined with water at 20 °C, three	-phase motor (900 rpm)) ** Special length on request				

•				
(:h	በነቦ	മറി	l m	ntors

Choice of motors					
Motors with protection switch	For B70V-H-D San	itary - 12.1	For B70V-H-D Sani	tary - 25.1	
Type	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	
			4		1111111
Motors with frequency converter	For B70V-H-D San	itary - 12.1	For B70V-H-D Sani	tary - 25.1	_100
Туре	0.55 kW, 0-900 1/min.		0.55 kW, 0-900 1/min.	0.75 kW, 0-900 1/min.	10
Protection class/Weight	IP 54 13.5 kg		IP 54 13.5 kg	I <mark>P 54 15 kg</mark>	
Order No.	0172-755		0172-755	0172-756	Three-phase
					230/400 V,
Motors with protection switch	For B70V-H-D San	itary - 25.2	For B70V-H-D Sani	tary - 50.1	RAL 9001,
Туре	0.75 kW, 700 1/min.		1.1 kW, 900 1/min.		Efficiency le
Protection class/Weight	IP 54 17 kg		IP 54 21.5 kg		(≥ 0.75 kW)
Order No.	0172-751		0172-754		to directive
					Special volt
Motors with frequency converter	For B70V-H-D San	itary - 25.2	For B70V-H-D Sani	tary - 50.1	frequencies
Туре	0.75 kW, 0-900 1/min.	1.1 kW, 0-900 1/min.	1.1 kW, 0-900 1/min.		classes on i
Protection class/Weight	IP 54 15 kg	IP 54 20 kg	IP 54 20 kg		
Order No.	0172-756	0172-757	0172-757		

Compressed air motors	For B70V - 12.1	For B70V - 25.1	For B70V - 25.2 / 50.1
Туре	4 DA, 0.45 kW, 900 1/min.,	6 DA, 1.0 kW, 900 1/min.,	8 DA, 1.7 kW, 900 1/min.,
	Weight 5 kg,	Weight 10 kg,	Weight 14 kg,
	operating pressure at 6 bar,	operating pressure at 6 bar,	operating pressure at 6 bar,
	air consumption 55 Nm ³ /h,	air consumption 80 Nm ³ /h,	air consumption 130 Nm ³ /h,
	87 dB (A)	87 dB (A)	102 dB (A)
Air supply thread	G 3/8	G 1/2	G 1/2
Order No.	0172-821	0172-822	0172-823
	(*)	1 1 1 (000 000 1 ())	

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





e motor 50 Hz,

evel IE 2) according 2005/32/EC. tages, , protection request.







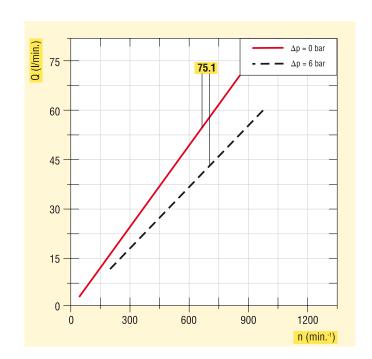
Materials (coming into contact with the pumped medium)

	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	Product detail
Size		75.1	1007
Seal Mechanica	ıl seal (MS)	MS	500
Delivery rate*	up to I/min.	75	=
Delivery head*	up to bar	6	1
Temp. of medium	max. °C	100	
Material pump tube		1.4404	
Immersion tube diamet	er mm	54	
Pressure joint	Tri-Clamp	DN 50	
Weight	kg	7	
Length**	mm	1100	
Stator PTFE	Order No.	0172-557	1
* Determined with water at 20 °C ** Special length on request	, three-phase motor (900 rp	m)	

Choice of motors

Motors with cable terminal box	For B70V-H-D San	nitary - 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 Sar	nitary - 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 Sai	nitary - 75.1	
Туре	1.5 kW, 0-900 1/mir	n. A L	
Protection class/Weight	IP 54 34 kg		l
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
Type	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

2

3



From the laboratory to the production

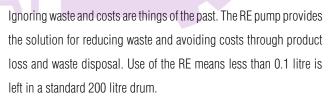


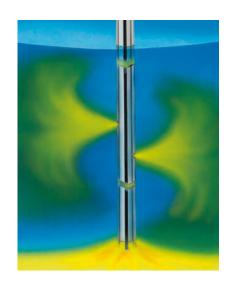
The new Lutz B2 Vario Pump comes with more features and benefits to meet the needs of working in clean and quiet environments. The speed-controllable motor and the new nozzle in the set version permits small quantities of liquids to be transferred safely and quietly. The modular construction permits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











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.





Lutz B2 Vario SS-SL

Lutz Drum and Container Pumps

B2 Vario (polypropylene or stainless steel)



Materials (coming into contact with the pumped medium)

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

Lutz B2 Vario PP-SL

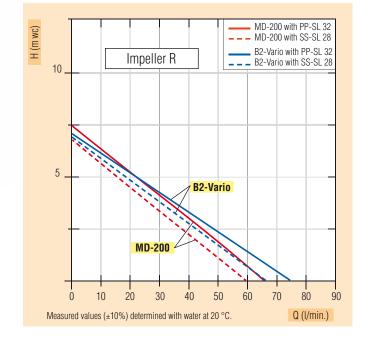
- 6 Chemically resistant plain bearing
- 6 Modular design sealless pump tube with improved hydraulics
- Replaceable pump foot







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	-
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	- 1
Density	up to kg/dm³	1.3	1.3	1
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 Impeller	Stainless steel 1.4571 ETFE	PP PP
Type of Impeller	Шрепеі	R	R
Category 1 / 2 (acc. to ATEX)		no	no
Immersion tube diameter:		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 or	request.

45

2



Lutz Drum and Container Pumps

Pump tube RE-PP (polypropylene)

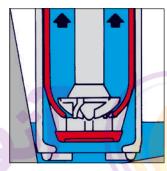


Materials (coming into contact with the pumped medium)

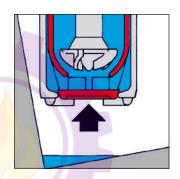
	RE-PP-MS
Housing:	PP
Impeller:	PP
Sealing pot:	PP
Seals:	Viton [®]
Mechanical seal:	Carbon, ceramic, Viton®, HC-4 (2.4610)
Bearing:	Pure carbon
Drive shaft:	Stainless steel (1.4571)

Viton® is a registered trademark of DuPont Performance Elastomers.

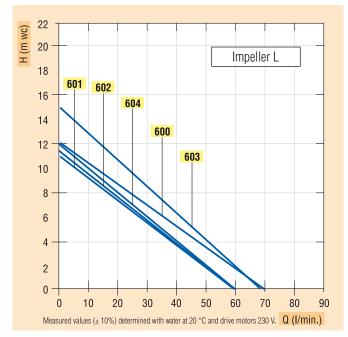
Function



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	-0.00
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 o	f motors	}		Operating d	ata			
Output: 5 Voltage: 2	MI-4 500 W 230 V 0030-000	MI-4-E with speed controller 500 W 230 V 0030-001	2	Density**** u	p to I/min.	اڌ - ۲۲	600 70 12 1000 1.6 4.0	
Output: 4 Voltage: 2 LVR: r	MA II 3 460 W 230 V no	460 W 230 V yes 0060-008		Density**** u	p to I/min.		601 60 11 800 1.7 5.8	
Output: 5 Voltage: 2 LVR: r	MA II 5 575 W 230 V no	MA II 5 575 W 230 V yes 0060-009	MA II 5 S 575 W 230 V no acid-proof 0060-091	Density**** u	p to I/min.		602 60 11.5 1200 2.0 6.6	
Output: 7 Voltage: 2	MA II 7 795 W 230 V no	795 W 230 V yes 0060-010		Density**** u	p 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.
		MD-2 400 W 6 bar 0004-088		Density**** up	p 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

2

3

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



Lutz Drum and Container Pumps

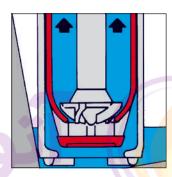
Pump tube RE-SS (stainless steel)



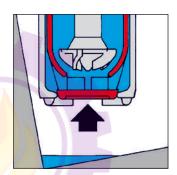
Materials (coming into contact with the pumped medium)

	RE-SS-MS	
Housing:	Stainless steel (1.4571)	
Impeller:	eller: 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

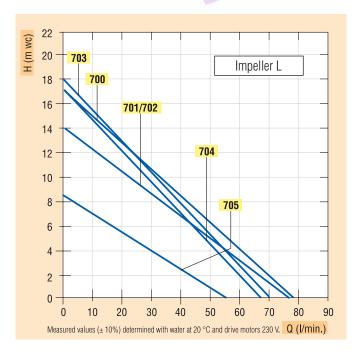


The Sealing pot is open the liquid is pumped out.



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

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 RE-SS (stainless steel)

for complete drum drainage of corrosive and neutral liquids

Pump to	ube			RE-SS MS	Product detail
Type of im	peller			L	
Category 1 / 2 (acc. to ATEX)			yes	(1)	
Immersion tube diameter:		up to mm	41		
Temperatur	re of medium	1:	up to °C	100	
Material:			Pump tube	1.4571	
			Impeller	ETFE	
Hose conn	ection:		Nominal diameter mm	19-32	
			Outer thread	G 1 1/4	
Length: 7			Order No.	0151-156	
Length: 10			Order No.	0151-157	
Length: 12	:00 mm		Order No.	0151-158	
Choice	of motors	S	Operating data		
	MI-4	MI-4-E	Characteristic curve no.	700	
	-	with speed	Delivery rate* up to I/min.	78	
		controller	Delivery head* up to m wc	17	
Output:	500 W	500 W	Viscosity** up to mPas	700	Name of Street, or other Persons
Voltage:	230 V	230 V	Density**** up to kg/dm³	1.4	
Order No.	0030-000	0030-001	Weight (kg) motor + pump tube	6.0	
	MAII3		Characteristic curve no.	701	
Output:	460 W	460 W	Delivery rate* up to I/min.	77	
Voltage:	230 V	230 V	Delivery head* up to m wc	14	Luitz
LVR:	no	yes	Viscosity** up to mPas	500	
Order No.	0060-000	0060-008	Density**** up to kg/dm³ Weight (kg) motor + pump tube	1.6 7.8	
Oluei No.	0000-000	0000-000	Weight (kg) motor + pump tube	1.0	
	MAII 5	MA II 5 MA II 5	S Characteristic curve no.	702	
Output:	575 W	575 W 575 W	Delivery rate* up to I/min.	77	
Voltage:	230 V	230 V 230 V	Delivery head* up to m wc	14	
LVR:	no	yes no	Viscosity** up to mPas Density**** up to kg/dm³	900 1.8	
Order No.	0060-001	acid-proo 0060-009 0060-09		8.6	
	MAII7		Characteristic curve no.	703	
Output:	795 W	795 W	Delivery rate* up to I/min.	70	Low-voltage release (LVR):
Voltage:	230 V	230 V	Delivery head* up to m wc Viscosity** up to mPas	18 700	Prevents the pump from
LVR:	no	yes	Viscosity** up to mPas Density**** up to kg/dm³	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.
			3 (3)		hh
0 1	MD-1	MD-2	Characteristic curve no.	704	
Output:	400 W	400 W	Delivery rate* up to I/min.	68	
Operating Pressure:	6 har	6 bar	Delivery head* up to m wc Viscosity** up to mPas	17 700	
i icssuic.	U Dal	U Dai	Viscosity** up to mPas Density**** up to kg/dm³	1.8	:: "
Order No.	0004-087	0004-088	Weight (kg) motor + pump tube	4.7	
	BA/CT			705	
Output	B4/GT 750 W	750 W	Characteristic curve no.	705 55	
Output: Voltage:	230/400 V	230/400 V	Delivery rate* up to I/min. Delivery head* up to m wc	8.5	
Protection	200/400 V	200/ TOU V	Viscosity** up to mPas	600	
Switch:	no	yes	Density**** up to kg/dm³	2.2	0 1
		0004+067	Weight (kg) motor + pump tube	14.0	
			3 · (3) · · · · · · · · · · · · · · · · · ·		

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

2

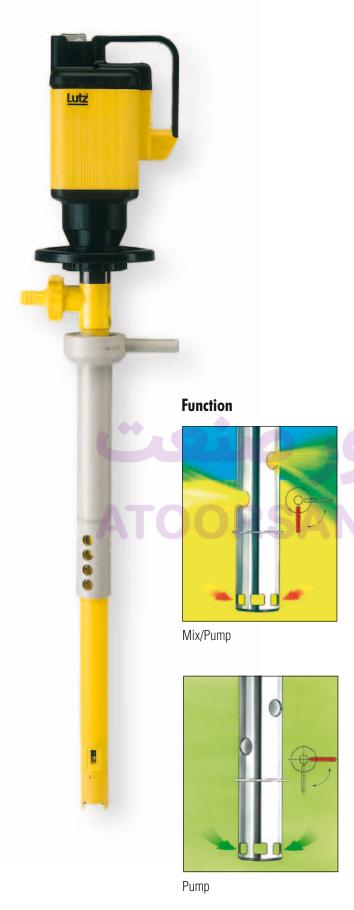
3

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



Lutz Drum and Container Pumps

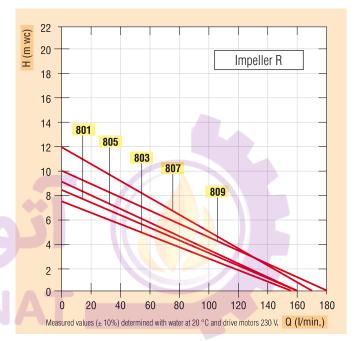
Pump tube MP-PP (polypropylene)

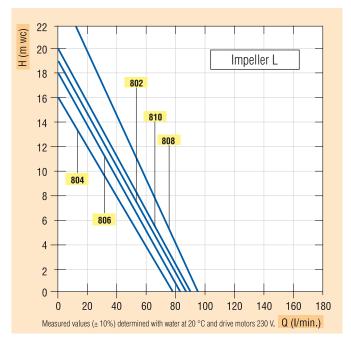


Materials (coming into contact with the pumped medium)

MP-PP-MS
PP/PVDF
PP
Viton®
Carbon, SiC, Viton®, HC
ETFE/PTFE
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	V
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	_	

Choice	of motors	8		Operating	data					
Output: Voltage:	MI-4 - 500 W 230 V	MI-4-E with Speed controller 500 W 230 V		Characteristic of Delivery rate* Delivery head* Viscosity** Density***	up to I/min. up to m wc up to mPas up to kg/dm³	801 160 8,5 150 1.1	802 87 19 500 1.4	801 160 8,5 150	802 87 19 500 1.4	
Order No.	0030-000	0030-001		Weight (kg)	motor + pump tube	4.1	4.1	4.1	4.1	
Output: Voltage: LVR:	MA II 3 460 W 230 V no	460 W 230 V yes		Characteristic of Delivery rate* Delivery head* Viscosity** Density***	up to I/min. up to m wc up to mPas up to kg/dm³	803 155 7.5 160 1.2	804 78 16 500 1.6	803 155 7.5 160 1.2	804 78 16 500 1.6	M. C.
Order No.	0060-000	0060-008		Weight (kg)	motor + pump tube	5.9	5.9	5.9	5.9	
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 0060-010		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:	MD-1 400 W 6 bar	MD-2 400 W 6 bar		Characteristic of Delivery rate* Delivery head* Viscosity** Density****	up to I/min.	809 180 10 600 1.3	810 90 20 850 1.8	810 180 10 600 1.3	809 90 20 850 1.8	
Order No.	0004-087	0004-088		Weight (kg)	motor + pump tube	2.8	2.8	2.8	2.8	

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

1

2

3

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



Lutz Drum and Container Pumps

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)	

Viton® is a registered trademark of DuPont Performance Elastomers.

Function



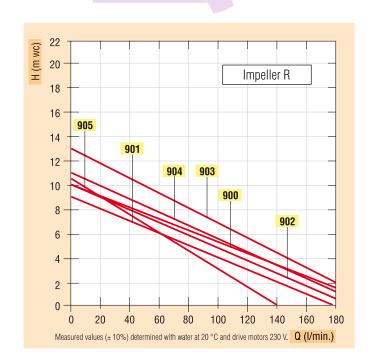


Mix/Pump

Pump

Pump tubes in physiologically

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 to	ube						MP-SS MS	Product detail
Type of imp	peller						R	
	Category 1 / 2 (acc. to ATEX)					yes	CID	
	tube diamete			up to mm		41		
	re of medium			up to °C			100	
Material:	io oi illoululli			Pump tube			1.4571	
iviatoriai.				Impeller			ETFE	
Hose conn	ection:			Nominal diame	eter mm		19-32	
11000 001111				Outer thread			G 1 1/4	III.
Length: 10	00 mm***			Order No.			0151-240	
Length: 12				Order No.			0151-255	
								-
Choice	of motors	3		Operating	data			
	MI-4	MI-4-E		Characteristic o	curve no.		900	
	-	with speed			up to I/min.		210	
		contoller		Delivery head*	up to m wc		10	
Output:	500 W	500 W		Viscosity**	up to mPas		350	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow
Voltage:	230 V	230 V		Density****	up to kg/dm³		1.1	1000
Order No.	0030-000	0030-001		Weight (kg)	motor + pump tube		6.0	
	MAII3			Characteristic o	curve no.		901	
Output:	460 W	460 W		Delivery rate*			178	
Voltage:	230 V	230 V		Delivery head*			9	Lutz
LVR:	no	yes		Viscosity**	up to mPas		200	
Ouden Ne	0000 000	0000 000		Density****	up to kg/dm³		1.2	
Order No.	0060-000			Weight (kg)	motor + pump tube	AT	7.8	
	MA II 5	MA II 5	MAII5S	Characteristic o	curve no.		902	
Output:	575 W		575 W	Delivery rate*			190	
Voltage:	230 V	230 V	230 V	Delivery head*			10	
LVR:	no	*	no	Viscosity**			550	
Order No	0060-001	0060-009	acid-proof	Density**** Weight (kg)	up to kg/dm³ motor + pump tube		1.3 8.6	
Oluci No.		0000-003	0000-091	weight (kg)	motor + pump tube		0.0	
	MAII7			Characteristic of	curve no.		903	
Output:	795 W	795 W		,	up to I/min.		210	Low-voltage release (LVR):
Voltage:	230 V	230 V					13	Prevents the pump from starting
LVR:	no	yes		Viscosity** Density****	up to mPas		400 1.4	up again without warning after a power failure. It's recommended
Order No.	0060-002	0060-010		Weight (kg)	up to kg/dm³ motor + pump tube		9.8	when pumping hazardous liquids
	MD-1	MD-2		Characteristic o	curvo no		904	
Output:	400 W	400 W			up to I/min.		200	
Operating	-100 VV	100 11		Delivery head*			11	
Pressure:	6 bar	6 bar		Viscosity**	up to m we		400	1000
				Density****	up to kg/dm³		1.3	# #
Order No.	0004-087	0004-088		Weight (kg)	motor + pump tube		4.7	
	B4/GT			Characteristic o	curve no.		905	
Output:	750 W	750 W		Delivery rate*	up to I/min.		140	
Voltage:	230/400 V	230/400 V					10.5	
Protection				Viscosity**	up to mPas		400	100
Switch: Order No.	no 0004+019	yes		Density****	up to kg/dm³		2.0 14.0	
		0004 007		Weight (kg)	motor + pump tube		1/11	

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

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

Lutz Pump Sets

اتور صنعت ATOORSANAT

Ready for action



	For aqueous flui	ids	Lutz B2 Vario PP-SL 32	Lutz MD-200 PP-SL 32	Lutz MD-300 PP-SL 32
-	mm. depth: 500 mm	Order-No.	0205-020	0205-065	on request
- 1	mm. depth: 700 mm	Order-No.	0205-021	0205-066	on request
-	mm. 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 max. 1.5 kg/dm3 max. 300 mPas max. 300 mPas max. 500 mPas Viscosity: max. 75 l/min. max. 65 l/min. max. 85 l/min. Delivery rate: (22 I/min.)* (22 I/min.)* (22 I/min.)* Delivery head: max. 7 m wc max. 7 m wc max. 7 m wc

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



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

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

Imm. depth: 1000 mm Order-No. **0205-201**Imm. depth: 1200 mm Order-No. **0205-202**

Consisting of:

Motor MA 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



Set 8

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



for easily flammable hydrocarbons

Imm. depth: 1000 mm Order-No.

Set 10 Suitable for complete drum drainage Suitable for complete drum drainage for all hazardous fluids 0205-511

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)

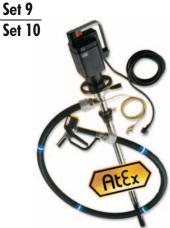
max. 1.6 kg/dm3 Density: max. 500 mPas Viscosity:

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

Delivery head: max. 14 m wc

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.

2

Choice of motors

Type



Order-No.

(without Low

voltage-release)

0030-000

0030-001 0030-015

0030-016

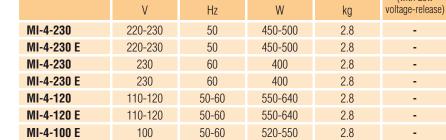
0030-003

0030-006

0030-008

Electric driven





Frequency

Weight

Nominal

power

Order-No.

(with Low

Nominal

voltage

With or without speed controller





Туре	Nominal voltage	Frequency	Nominal power	Weight	Order-No.	Order-No. (without Low
	V	Hz	W	kg	voltage-release)	voltage-release)
MAII3	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
MA II 7	220-230	50	790-795	6.6	0060-010	0060-002
	100-120	50-60	700	6.6	0060-018	0060-046





Туре	Nominal voltage	Frequency	Nominal power	Weight	Order-No.	Order-No. (without Low
	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



MD-3



Туре	Operating pressure	Nominal power	Weight	Order-No.
	bar	W	kg	
MD-200	6	200	0.8	0004-160
MD-300	6	300	0.9	0004-170





 ϵ

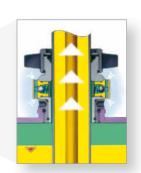
2

3

Getting started







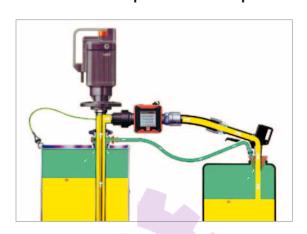
In keeping with our philosophy of making life safe and simple, we have a complete range of accessories available for you.

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



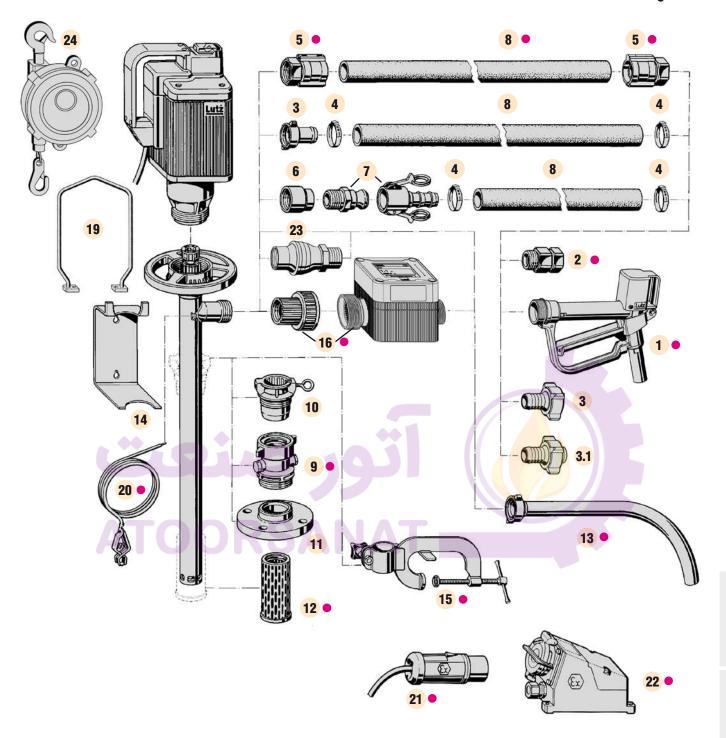
Concern about air pollution has never been so widespread as it is today. Acting on its sense of environmental responsibility, Lutz has further developed its emission proof drum adapter as a complete gas displacement system. When pumping or storing hazardous liquids in the container, any harmful gases 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
	IMD//IE

_	_	_			1.1
"		- 111	rninc	ıknı	ıckle
_		ıυ		INIIL	שואטג

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

14 Wall bracket

15 • Clamping device

• 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?





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.

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).

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	







A subdivision of Group II into A, B and C is also stipulated for a number of types of enclosure, whereby the flammability of gases and vapours belonging to Group IIA is the lowest and that of gases and vapours in Group IIC the highest. Consequently, we have had our explosion proof drum and container pumps tested in this group. The temperature class of a piece of electrical equipment is dependent on the maximum surface temperature measured at an ambient temperature of 40 $^{\circ}\text{C}.$ The classes range from T1 to T6.

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.



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.



Lutz Drum and Container Pumps

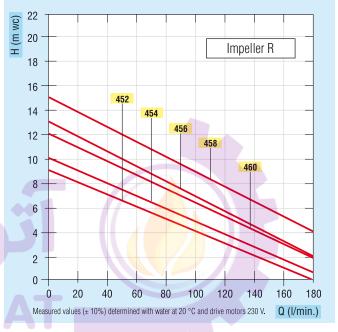
Pump tube SS (stainless steel)

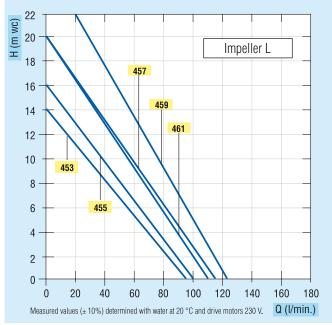


Materials (coming into contact with the pumped medium)

	SS-MS	SS-SL
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Impeller:	ETFE	ETFE
Seals:	Viton [®]	none
Mechanical seal:	Carbon, ceramic, Viton®, Stainless steel	none
Bearing:	Pure carbon	Pure carbon
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 SS (stainless steel)

for highly inflammable liquids

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

						00 E				
Choice	of motors	3		Operating	data					
0.1.1	ME II 3	400.144		Characteristic		452	453	452	453	
Output:	460 W	460 W		Delivery rate*	up to I/min.	178	95	178	95	
Voltage:	230 V	230 V		Delivery head*		9	14	9	14	
LVR:	yes	no		Viscosity**	up to mPas	200	350	200	350	
Ouden Ne	0050 000	0050 040		Density****	up to kg/dm ³	1.2	1.6	1.2	1.6	
Order No.	0050-000	010-010		Weight (kg)	motor + pump tube	8.7	8.7	8.7	8.7	
	ME II 5			Characteristic	curve no.	454	455	454	455	
Output:	580 W	580 W		Delivery rate*	up to I/min.	190	100	190	100	(OLEY)
Voltage:	230 V	230 V		Delivery head*	up to m wc	10	16	10	16	HICK
LVR:	yes	no		Viscosity**	up to mPas	550	700	550	700	
				Density****	up to kg/dm³	1.3	1.8	1.3	1.8	
Order No.	0050-001	0050-017		Weight (kg)	motor + pump tube	9.6	9.6	9.6	9.6	
	ME II 7			Characteristic	ourvo no	456	457	456	457	
Output:	795 W	795 W		Delivery rate*	up to I/min.	210	115	210	115	
Voltage:	230 V	230 V		Delivery head*		13	20	13	20	
LVR:	yes	no		Viscosity**	up to mPas	400	500	400	500	
	, 00			Density****	up to kg/dm³	1.4	1.9	1.4	1.9	
Order No.	0050-002	0050-018		Weight (kg)	motor + pump tube	10.8	10.8	10.8	10.8	
	ME II 8									Low-voltage release (LVR):
0		000 111		Characteristic		458	459	458	459	Prevents the pump from starting
Output:	930 W	930 W		Delivery rate*	up to I/min.	243	123	243	123	up again without warning after a
Voltage:	230 V	230 V		Delivery head*		15	26	15 CEO	26	power failure. In the hazardous location, motors with low-
LVR:	yes	no		Viscosity**	up to mPas	650	750	650	750	voltage release are absolutely
Ouden Ne	0050-042	0050 044		Density****	up to kg/dm³	1.4	1.9	1.4	1.9	prescribed.
Order No.	0000-042	0000-041		Weight (kg)	motor + pump tube	10.8	10.8	10.8	10.8	_
	MD-1	MD-2	MD-3	Characteristic	curve no.	460	461	460	461	f 7
Output:	400 W	400 W	400 W	Delivery rate*	up to I/min.	210	110	210	110	A CONTRACTOR OF THE PARTY OF TH
Operating				Delivery head*	up to m wc	12	20	12	20	
Pressure:	6 bar	6 bar	6 bar	Viscosity**	up to mPas	400	500	400	500	
				Density****	up to kg/dm³	1.3	1.8	1.3	1.8	::
Order No.	0004-087	0004-088	0004-090	Weight (kg)	motor + pump tube	4.4	4.4	4.4	4.4	

^{*} 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.



Lutz Drum and Container Pumps

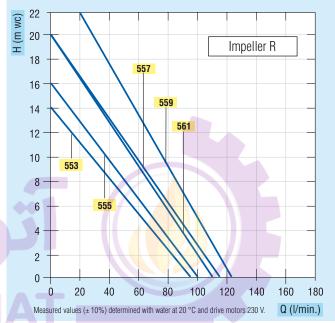
Pump tube HC (Hastelloy C)

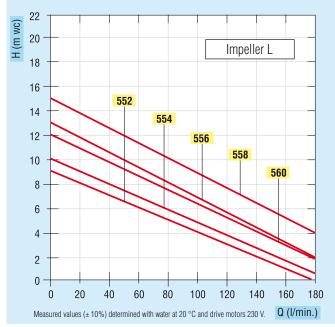


Materials (coming into contact with the pumped medium)

	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	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.	0162-204	0162-201		
Length: 1200 mm***	Order No.	0162-205	0162-202		

Choice	of motors	3		Operating d	ata			
Output: Voltage: LVR.:	ME II 3 460 W 230 V yes 0050-000	460 W 230 V no	00	Delivery head* up Viscosity** up Density**** up	rve no. p to I/min. p to m ws p to mPas p to kg/dm³ //otor + pump tube	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		Delivery head* u Viscosity** u Density**** u	rve no. p to I/min. p to m ws p to mPas p to kg/dm³ Aotor + pump tube	555 100 16 700 1.8 11.1	554 190 10 550 1.3 11.1	AtEx
Output: Voltage: LVR.:	ME II 7 795 W 230 V yes 0050-002	795 W 230 V no 0050-018		Delivery head* up Viscosity** up Density**** up	rve no. p to I/min. p to m ws p to mPas p to kg/dm³ Motor + pump tube	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 0050-041		Delivery head* up Viscosity** up Density**** up	rve no. p to I/min. p to m ws p to mPas p to kg/dm³ //otor + pump tube	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	MD-2 400 W 6 bar 0004-088	MD-3 400 W 6 bar 0004-090	Delivery head* up Viscosity** up Density**** up	rve no. p to I/min. p to m ws p to mPas p to kg/dm³ //otor + pump tube	561 110 20 500 1.8 5.9	560 210 12 400 1.3 5.9	Arex

^{*} 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.



Lutz Drum and Container Pumps

Pump tube RE-SS (stainless steel)

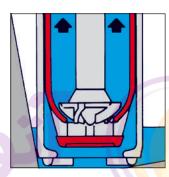


Materials (coming into contact with the pumped medium)

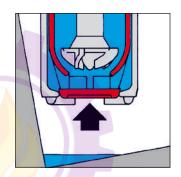
RE-SS-M	S
---------	---

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)

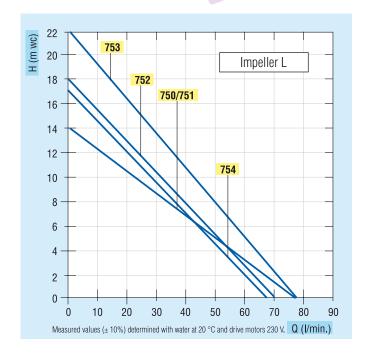
Function



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

	RE-SS MS	Product detai
	L	
	yes	
up to mm	41	
up to °C	100	
Pump tube	1.4571	
Impeller	ETFE	
Nominal diameter mm	19-32	
Outer thread	G 1 1/4	
Order No.	0151-156	
Order No.	0151-157	
Order No.	0151-158	
	up to °C Pump tube Impeller Nominal diameter mm Outer thread Order No. Order No.	L yes up to mm 41 up to °C 100 Pump tube 1.4571 Impeller ETFE Nominal diameter mm 19-32 Outer thread G 1 1/4 Order No. 0151-156 Order No. 0151-157

Choice o	of motors	1		Operating data		
Output: Voltage: LVR:	ME II 3 460 W 230 V yes 0050-000	460 W 230 V no	00	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	750 77 14 500 1.6 9.0	
Output: Voltage: LVR:	ME II 5 580 W 230 V yes 0050-001	580 W 230 V no 0050-017		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	751 77 14 900 1.8 9.9	ALEX
Output: Voltage: LVR:	ME II 7 795 W 230 V yes 0050-002	795 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 tube	752 70 18 700 1.9 11.1	
Output: Voltage: LVR:	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 tube	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.
Output: Operating Pressure:		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 tube	754 68 17 700 1.8 4.7	

^{*} 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 MP-SS (stainless steel)

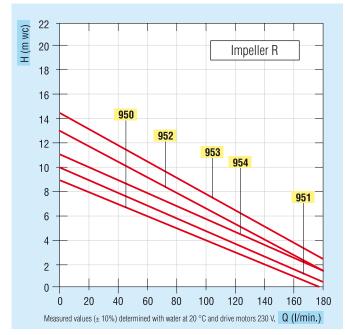
Materials (coming into contact with the pumped medium)

	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)

 $\label{thm:point} \mbox{Viton} \mbox{\@scite{@}} \mbox{ is a registered trademark of DuPont Performance Elastomers.}$

Function





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 mot	rs	Operating data		
Output: 460 W Voltage: 230 V LVR: yes Order No. 0050-0	460 W 230 V no 00050-016	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 tube	950 178 9 200 1.2 9.0	
Output: 580 W Voltage: 230 V LVR: yes Order No. 0050-0	580 W 230 V no 11 0050-017	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	951 190 10 550 1.3 9.9	Atex
ME II 7 Output: 795 W Voltage: 230 V LVR: yes Order No. 0050-0	795 W 230 V no 12 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 tube	952 210 13 400 1.4 11.1	
Output: 930 W Voltage: 230 V LVR: yes Order No. 0050-0	930 W 230 V no 2 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	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: 400 W Operating Pressure: 6 bar Order No. 0004-0	MD-2 MD-3 400 W 400 W 6 bar 6 bar 7 0004-088 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	954 200 11 400 1.3 4.7	

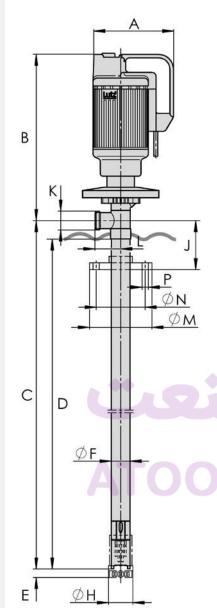
^{*} Determined with water at 20 °C ** Determined with oil

^{***} 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.



Table of dimensions drum and container pumps



Pump tubes		С			D		E	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	-	-	-

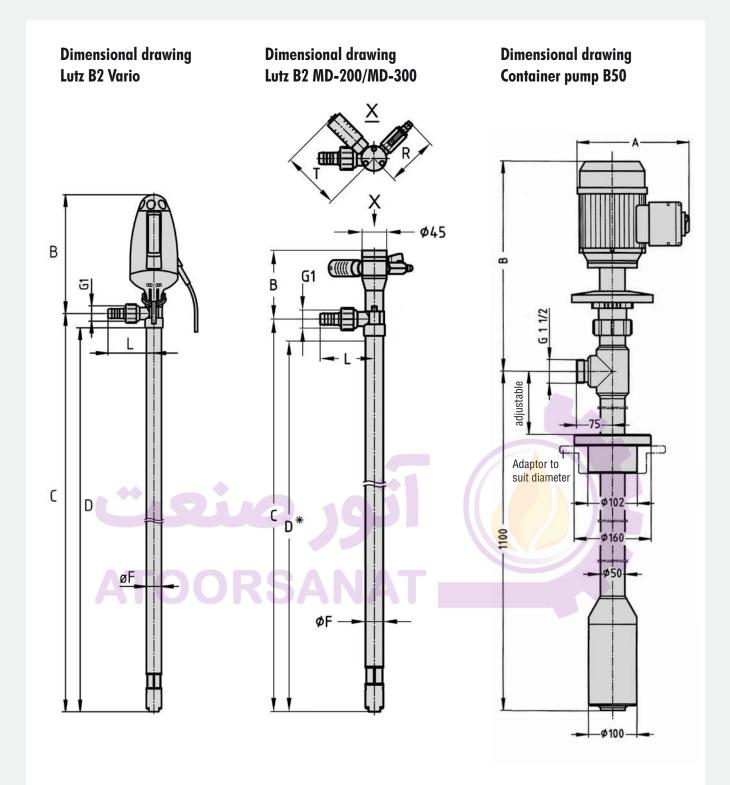
^{*}Dimension is referred to Immersion depth 1225

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
- L Pump centre to discharge end

Dimensions in mm





	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	-
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	M 71	236	442
0.75 kW	M 80	255	478

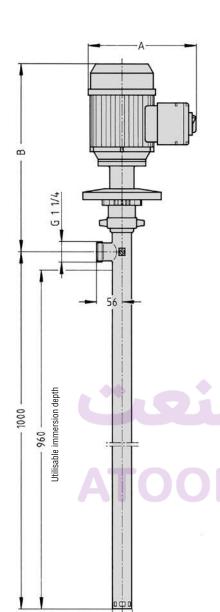
Dimensions in mm

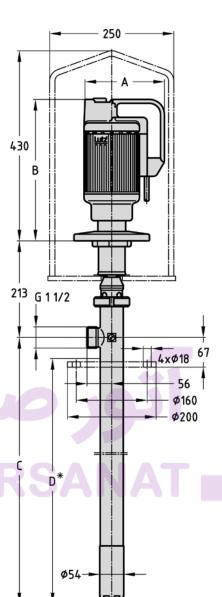


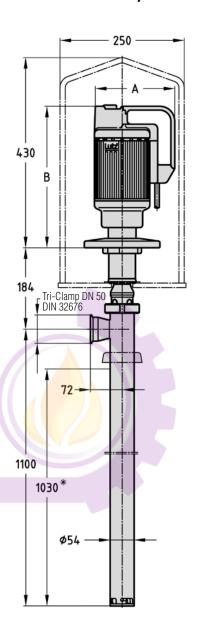
Dimensional drawing Eccentric screw pump HD-E

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	C		[)
			1000	1100	1000	1100
MAII 3	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
MAII5S	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

Dimensions in mm



Dimensional drawing Dimensional drawing Dimensional drawing Eccentric screw pump Eccentric screw pump Eccentric screw pump B70V-D 12.1-75.1 **B70V-H-D Sanitary 12.1-75.1** B70V 120.1 max. 240** max. 240** depending on motor size max. 440 max. 440 max. 360 max. 360 Tri-Clamp DN 50 DIN 32676 261 Tri-Clamp DN 50 DIN 32676 191 212 - G 1 1/2 4xØ18 67 87 56 Ø160 Ø200 Ø89 1100 1030 Ø54 Ø54

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

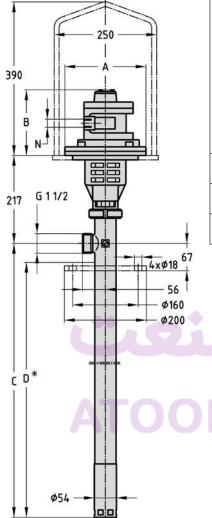
Dimensions in mm

– ø131 ·

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



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



1130

1000 | 1100

В

117

Ø 160

Ø 200 163

4 DA

6 DA

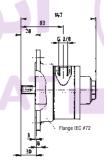
75.1

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
	96.5 96.5 9 Biblis	96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5	PNA STATE OF THE PARTY OF THE P
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







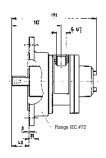
Type 6 DA

N

G 3/8

G 1/2

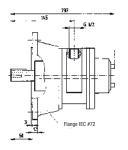
1000 | 1100

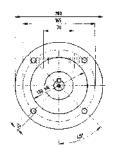






Type 8 DA







^{*}utilisable immersion depth



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

Motordatenblatt/ Lutz Motor data sheet Motor MA II 3 220-230V 50Hz

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.

Physikalisch-Technische Bundesanstalt EC-TYPE-EXAMINATION CERTIFICATE E II 2 G EEx de IIC T4, T5 or T6

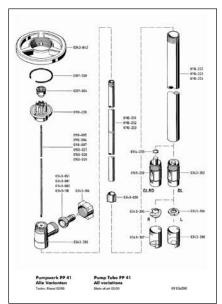
PIB

Test certificate



Operating instruction

Data sheet



Spare part list



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.

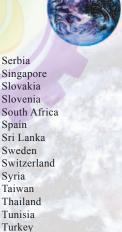
In this brochure, we would like to take this opportunity to give you an overview of our product range. Naturally, we welcome any enquiries you may have, so please do not hesitate to contact us or one of our offices or distributors for further help or assistance.

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:

Argentina Aserbaidschan Australia Indonesia Austria Iraq Ireland Belarus Iceland Belgium Bosnia and Italy Herzegovina Japan Brazil Kasachstan Bulgaria Korea Canada Lithuania Chile Luxembourg China Macedonia Croatia Malaysia Mexico Cyprus Czechia Montenegro Denmark Netherlands New Zealand Egypt Finland Norway France Peru Turkmenistan Ghana Philippines Ukraine Great Britain Poland U.A.E. Greece Portugal USA Rumania Hong Kong Usbekistan Venezuela Hungary Russia India Saudi Arabia Vietnam



Order-No. 0699-208 Bo. 3.000/11.12

Lutz Pumpen GmbH

P.O. Box 14 62 · D-97864 Wertheim Tel.: (+49 93 42) 8 79-0 · Fax: (+49 93 42) 87 94 04

e-mail: info@lutz-pumpen.de

www.lutz-pumpen.de