

Pump Tubes MP for mixing and pumping

Multi talent: Lutz pump tube MP for mixing and pumping



Simply double the reward: Lutz pump tubes for mixing and pumping

Some fluids take offence at being kept on hold. They will simply sediment. We are referring to numerous emulsions, dispersions and suspensions used in industrial and trade environments. This is not due to their impatience but to the different weight of the individual ingredients. The Lutz MP can cater for two needs, since it combines a mixer and a pump in one unit and is thus the ideal solution for "critical relationships" of this kind.

Universally Applicable

"Mixer" and Pump in a single unit



immerse



mix/pump



pump

Desired turbulences

The special flow conditions in the container generated by the pump tube for mixing and pumping thoroughly remix and homogenize sedimented media – even in remote corners of the container bottom. In a flash, you will have a homogenized mix ready for further processing.

All the functions in one go

A construction comprising an immersion tube and a locking mechanism that has been tried and tested in practice provides for opening and closing of the mixing apertures. This proven design facilitates simultaneous mixing and pumping. Of course, it's your choice; With the discharge connection closed, you can also mix first and pump afterwards. The pump tube functions are conveniently controlled by devices outside the drum.

Take advantage of a wide range of capabilities

Lutz pump tubes for mixing and pumping are available in stainless steel or polypropylene to match all kinds of chemical resistance requirements. Combined with a wide range of motors, they are capable of meeting a vast number of demands with respect to mixing and pumping inhomogeneous, aggressive and easily inflammable fluids.

Perfect fit

Lutz pump tubes MP for mixing and pumping are compact, that is exactly why they make it big: They have no problems at all fitting through the standardised bung hole of a 200-l drum. Simply push it in, fasten it using a drum adapter – and off you go!

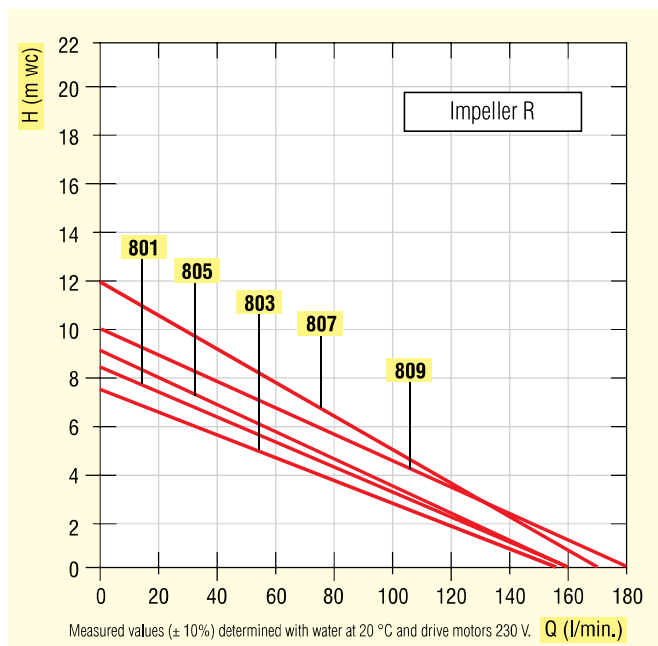
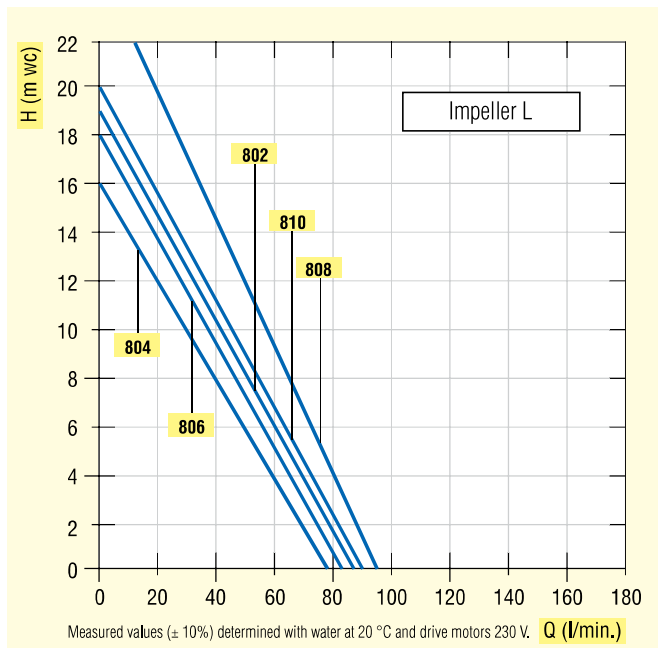
Pump Tube MP-PP (polypropylene)

for mixing and pumping of corrosive and neutral liquids

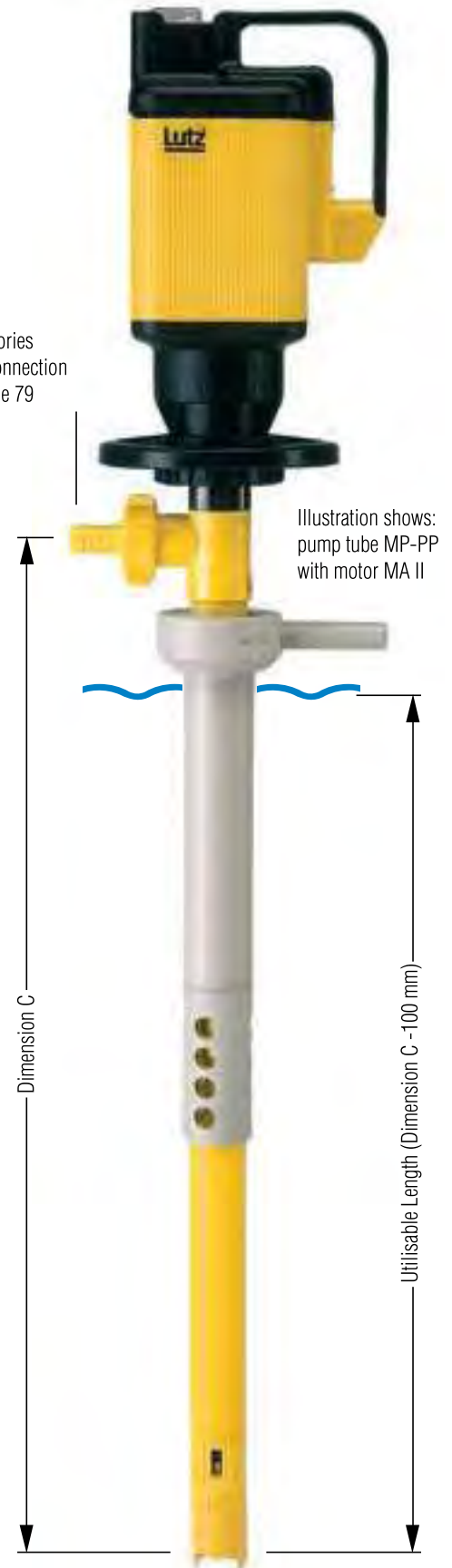
Materials (coming into contact with the pumped medium):

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

Viton® is a registered trademark of DuPont Performance Elastomers.




Accessories
hose connection
see page 79




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.


Lutz Drum and Container Pumps

Pump tube MP-PP (polypropylene) for mixing and pumping of corrosive and neutral liquids

Productdetail	Pump tube	MP-PP-SL		MP-PP MS		
	Type of impeller	L	R	L	R	
	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*** shaft SS	Order No.	0110-150	0110-160	0103-150	0103-160
	Length: 1200 mm*** shaft SS	Order No.	–	0110-152	–	–
Length: 1000 mm*** shaft HC	Order No.	0110-170	0110-180	–	–	
Length: 1200 mm*** shaft HC	Order No.	–	0110-172	–	–	

Choice of motors Operating data


	MI-4	MI-4-E	Characteristic curve no.	802	801	802	801	
	–	with speed controller		Flow rate* up to l/min.	87	160	87	160
	Output: 500 W	500 W		Delivery head* up to m wc	19	8.5	19	8.5
	Voltage: 230 V	230 V		Viscosity** up to mPas	500	150	500	150
	Order No. 0030-000	0030-001		Density**** up to kg/dm³	1.4	1.1	1.4	1.1
				Weight (kg) Motor + pump tube	4.1	4.1	4.1	4.1

	MA II 3		Characteristic curve no.	804	803	804	803	
	Output: 460 W	460 W		Flow rate* up to l/min.	78	155	78	155
	Voltage: 230 V	230 V		Delivery head* up to m wc	16	7.5	16	7.5
	LVR.: no	yes		Viscosity** up to mPas	500	160	500	160
	Order No. 0060-000	0060-008		Density**** up to kg/dm³	1.6	1.2	1.6	1.2
				Weight (kg) Motor + pump tube	5.9	5.9	5.9	5.9

	MA II 5	MA II 5	MA II 5 S	Characteristic curve no.	806	805	806	805	
Output: 575 W	575 W	575 W			Flow rate* up to l/min.	80	160	80	160
Voltage: 230 V	230 V	230 V			Delivery head* up to m wc	17	9	17	9
LVR.: no	yes	no			Viscosity** up to mPas	800	350	800	350
		acid-proof			Density**** up to kg/dm³	1.8	1.3	1.8	1.3
Order No. 0060-001	0060-009	0060-091			Weight (kg) Motor + pump tube	6.7	6.7	6.7	6.7

	MA II 7		Characteristic curve no.	808	807	808	807	
Output: 795 W	795 W			Flow rate* up to l/min.	90	170	90	170
Voltage: 230 V	230 V			Delivery head* up to m wc	22	12	22	12
LVR.: no	yes			Viscosity** up to mPas	800	350	800	350
Order No. 0060-002	0060-010			Density**** up to kg/dm³	1.9	1.4	1.9	1.4
				Weight (kg) Motor + pump tube	7.9	7.9	7.9	7.9

Low-voltage release (LVR.): Prevents the pump from starting up again without warning after a power failure. It is recommended when pumping hazardous liquids.

	MD-1	MD-2	Characteristic curve no.	810	809	810	809	
	Output: 400 W	400 W		Flow rate* up to l/min.	90	180	90	180
	Operating pressure: 6 bar	6 bar		Delivery head* up to m wc	20	10	20	10
				Viscosity** up to mPas	850	600	850	600
	Order No. 0004-087	0004-088		Density**** up to kg/dm³	1.8	1.3	1.8	1.3
				Weight (kg) Motor + pump tube	2.8	2.8	2.8	2.8

* Determined with water at 20 °C *** Special lengths 400–2500 mm on request
** Determined with oil

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

Special voltages and frequencies on request.

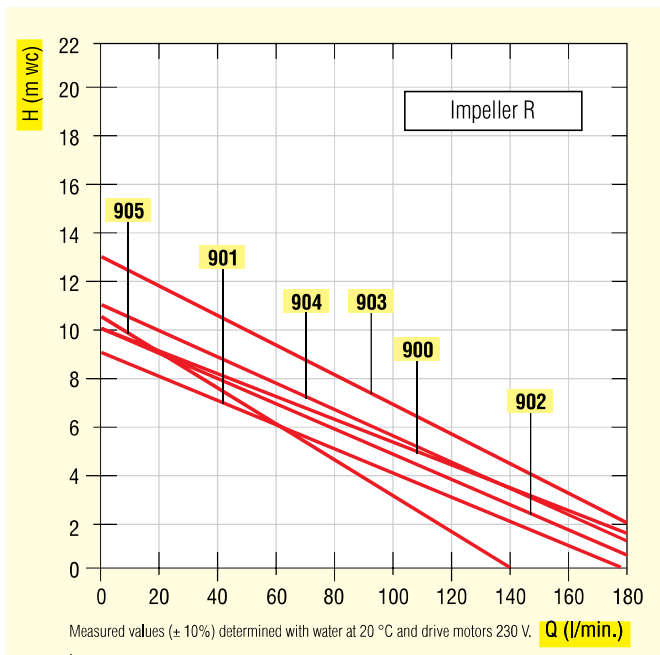
Pump Tube MP-SS (stainless steel)

for mixing and pumping of corrosive and neutral liquids

Materials (coming into contact with the pumped medium):

Version:	MS	MS PURE
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)
Impeller:	ETFE	ETFE
Seals:	Viton® (FEP coated)	Viton®
Mechanical seals:	Carbon, Ceramic, PTFE, HC-4 (2.4610), Stainless steel 1.4571)	Carbon, Ceramic, PTFE, HC-4 (2.4610), Stainless steel 1.4571)
Bearing:	Pure Carbon	Pure Carbon
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)

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Accessories
hose connection
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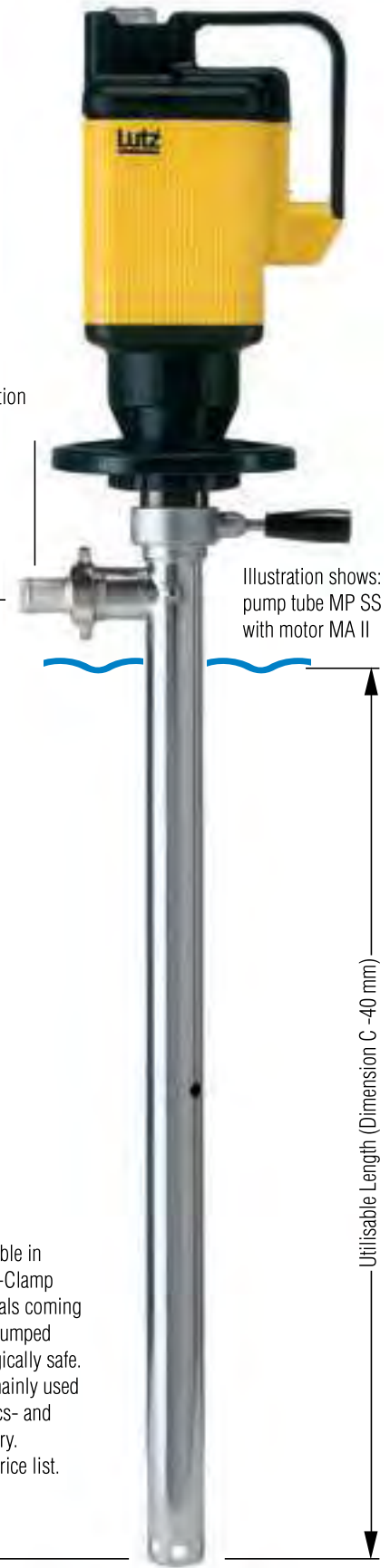


Illustration shows:
pump tube MP SS
with motor MA II








Pump tube also available in PURE version with Tri-Clamp connection. All materials coming into contact with the pumped medium are physiologically safe. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry. Additional costs see price list.

Tip
Which pump for which liquid?
See resistance table

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.

Lutz Drum and Container Pumps

Pump tube MP-SS (stainless steel) for mixing and pumping of corrosive and neutral liquids

Product detail	Pump tube	MP-SS MS		
	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 Impeller	1.4571 ETFE	
	Hose connection:▲	Nominal diameter mm Outer thread	19-32 G 1 1/4	
	Length: 1000 mm***	Order No.	0151-240	
Length: 1200 mm***	Order No.	0151-255		
Choice of motors		Operating data		
	MI-4	MI-4-E	Characteristic curve no. 900 Flow rate* up to l/min. 210 Delivery head* up to m wc 10 Viscosity** up to mPas 350 Density**** up to kg/dm³ 1.1 Weight (kg) Motor + pump tube 6.0	
	-	with speed contoller		
	Output: 500 W	500 W		
	Voltage: 230 V	230 V		
Order No. 0030-000 0030-001				
	MA II 3		Characteristic curve no. 901 Flow rate* up to l/min. 178 Delivery head* up to m wc 9 Viscosity** up to mPas 200 Density**** up to kg/dm³ 1.2 Weight (kg) Motor + pump tube 7.8	
	Output: 460 W	460 W		
	Voltage: 230 V	230 V		
	LVR.: no	yes		
	Order No. 0060-000 0060-008			
	MA II 5 MA II 5 MA II 5 S			Characteristic curve no. 902 Flow rate* up to l/min. 190 Delivery head* up to m wc 10 Viscosity** up to mPas 550 Density**** up to kg/dm³ 1.3 Weight (kg) Motor + pump tube 8.6
	Output: 575 W	575 W 575 W		
	Voltage: 230 V	230 V 230 V		
	LVR.: no	yes no acid-proof		
	Order No. 0060-001 0060-009 0060-091			
MA II 7		Characteristic curve no. 903 Flow rate* up to l/min. 210 Delivery head* up to m wc 13 Viscosity** up to mPas 400 Density**** up to kg/dm³ 1.4 Weight (kg) Motor + pump tube 9.8		
Output: 795 W	795 W			
Voltage: 230 V	230 V			
LVR.: no	yes			
Order No. 0060-002 0060-010				
	MD-1	MD-2	Characteristic curve no. 904 Flow rate* up to l/min. 200 Delivery head* up to m wc 11 Viscosity** up to mPas 400 Density**** up to kg/dm³ 1.3 Weight (kg) Motor + pump tube 4.7	
	Output: 400 W	400 W		
	Operating pressure: 6 bar	6 bar		
	Order No. 0004-087 0004-088			
	B4/GT		Characteristic curve no. 905 Flow rate* up to l/min. 140 Delivery head* up to m wc 10.5 Viscosity** up to mPas 400 Density**** up to kg/dm³ 2.0 Weight (kg) Motor + pump tube 14.0	
	Output: 750 W	750 W		
	Voltage: 230/400 V	230/400 V		
	Protection switch: no	yes		
	Order No. 0004+019 0004+067			

▲ PURE version
Tri-Clamp DN 32

* Determined with water at 20 °C *** Special lengths
600–2500 mm on request

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

Special voltages and
frequencies on request.