# **Lutz Eccentric Screw Pumps**

## B70V 12.1 and 25.1 PURE for viscous foodstuffs

Product detail	Pump tubes		B70V PURE			
	Size		12.1	12.1	25.1	25.1
	Category 1 / 2 (acc. to ATEX)		no	yes	no	yes
	Seal Mechanical seal	(MS)	MS	MS	MS	MS
	Drive shaft Torsion shaft Universal joint sha	(TS) ift (UJ)	TS	UJ	TS	UJ
	Delivery rate*	up to l/min.	12	12	25	25
	Delivery head*	up to bar	6	6	6	6
	Temp. of medium**	up to °C	140	140	140	140
	Material pump tube		1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404
	Material stator		PTFE	PTFE	PTFE	PTFE
	Immersion tube diameter	mm	54	54	54	54
	Pressure joint	Tri-Clamp DN	50	50	50	50
	Weight	kg	7	7	7	7
	Length***	mm	1000	1000	1000	1000
	Order No. basic pump <b>A</b>		0172-004	0173-014	0172-124	0173-134
	Order No. additional price PURE FPM •		0172-128	0173-138	0172-128	0173-138
	Order No. additional price PURE EPDM <b>A</b>		0172-129	0173-139	0172-129	0173-139

▲ Please choose Order No. basic pump + Order No. PURE additional price

Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator with PTFE Stator (the medium temperature of explosion proof eccentric screw pumps B70 may not exceed 100°C) \*\*

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

• Explosion proof eccentric screw pump approved category 1 / 2 (acc. to ATEX) for pumping flammable liquids of the explosion group IIA and temperature class T4



#### **Motor selection**



Three-phase motor 230/400 V, 50 Hz, Energy efficiency class IE 3 in accordance with EU regulations 640/2009 and 04/2014. Special voltages,

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

Motors with cable terminal box				
Version	0.75 kW, 900 1/min.	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.	
Protection type/weight	IP 55 16 kg	IP 55 20 kg	IP 55 31 kg	
Order No.	0172-901	0172+826	0172-903	
Motors with protection switch				
Version	0.75 kW, 900 1/min.	1.1 kW, 700 1/min.	1.1 kW, 900 1/min.	
Protection type/weight	IP 55 22 kg	IP 55 22 kg	IP 55 32 kg	
Order No.	0172-900	0172+825	0172-902	
Motors, explosion proof				
Version	0.55 kW, 900 1/min.	0.95 kW, 900	0.95 kW, 900 1/min.	
Marking	II 2 G Ex e II T3	II 2 G Ex e II	T3	
Protection type/weight	IP 55 17 kg	IP 55 25 k	g	
Order No.	0172-804	0172-816		
Motor with frequency converter				
Version	0.75 kW, 0-900 1/min.	1.5 kW, 0-90	1.5 kW, 0-900 1/min.	
Protection type/weight	IP 55 30 kg	IP 55 35 k	g	
Order No.	0172-768	0172-766		
<b>Motor with frequency converter</b> Version Protection type/weight	0.75 kW, 0-900 1/min. IP 55 30 kg	1.5 kW, 0-90 IP 55 35 k		

## B70V 12.1 and 25.1 PURE

## for viscosities from 1 - 100,000 mPas

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Version:	B70V PURE PTFE/FPM	B70V PURE PTFE/EPDM
Housing:	Stainless steel (1.4571/1.4404)	Stainless steel (1.4571/1.4404)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM	EPDM
Mechanical seal: Torsion shaft Universal joint shaft	WC/SiC/FPM WC/WC/FPM	WC/SiC/EPDM WC/WC/EPDM
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	PTFE	PTFE

#### Materials (coming into contact with the pumped medium):

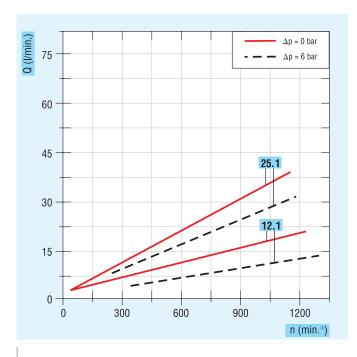


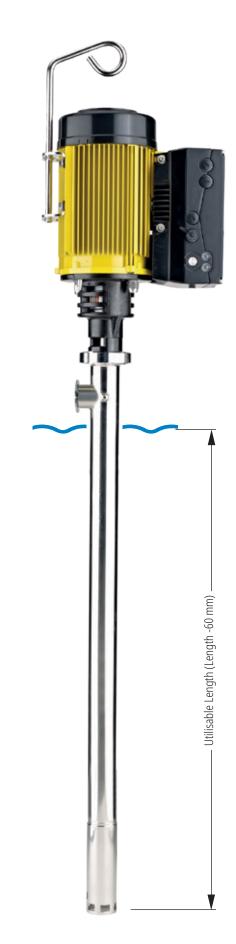
Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

### **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. Medium table with liquid examples see chemical resistance table.





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At<sub>Ex</sub>