








# Lutz Eccentric Screw Pumps

## B70V 12.1 and 25.1

Product detail		Pump tube							B70V	
	Size		12.1	12.1	12.1	25.1	25.1	25.1	25.1	25.1 Steel
	Seal	Packing gland (St) Mechanical seal (MS)	MS	MS	St	MS	MS	St	MS	MS
	Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	UJ	TS	UJ	UJ	UJ	TS
	Delivery rate*	up to l/min.	12	12	12	25	25	25	25	25
	Delivery head*	up to bar	6	6	6	8	8	8	8	8
	Temp. of medium**	up to °C	140	140	140	140	140	140	140	80
	Material pump tube		1.4571	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	54
	Pressure joint	Outer thread	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2
	Weight	kg	7	7	7	7	7	7	7	7
	Length***	mm	1000	1000	1000	1000	1000	1000	1000	1000
	Stator NBR light (Tmax. 80 °C)	Order No.	–	–	–	0172-121	0173-131	0173-121	0171-121	0171-121
	Stator Viton (Tmax. 140 °C)	Order No.	–	–	–	0172-122	0173-132	0173-122	0171-122	0171-122
	Stator PTFE (Tmax. 140 °C)	Order No.	0172-004	0173-014	0173-004	0172-124	0173-134	0173-124	0171-124	0171-124
<p>* Determined with water at 20 °C, three-phase motor (900 rpm) and elastomer stator            ** with PTFE 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)</p> <p>Combination of packing gland and torsion shaft on request.</p> <p>● Explosion proof eccentric screw pump B70V approved category 1 / 2 (acc. to Atex 100a) for pumping inflammable liquids of the explosion group IIA and temperature class T4</p>										
 										
<b>Choice of motors</b>										
	<b>Motors with cable terminal box</b>		<b>For B70V - 12.1</b>				<b>For B70V - 25.1</b>			
	Type		0.37 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 55 10.5 kg		IP 55 10.5 kg		IP 55 15 kg		IP 55 12 kg	
	Order No.		0172-803		0172-806		0172-809		0172-812	
	<b>Motors with protection switch</b>		<b>For B70V - 12.1</b>				<b>For B70V - 25.1</b>			
	Type		0.37 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 11 kg		IP 54 11 kg		IP 54 15.5 kg		IP 54 12.5 kg	
	Order No.		0172-802		0172-805		0172-808		0172-811	
	<b>Motors, explosion proof</b>		<b>For B70V - 12.1</b>				<b>For B70V - 25.1</b>			
	Type		0.37 kW, 700 1/min.		0.55 kW, 900 1/min.		0.55 kW, 700 1/min.		0.75 kW, 900 1/min.	
	Protection class		II 2 G EEx e II T3		II 2 G EEx e II T3		II 2 G EEx e II T3		II 2 G EEx e II T3	
	Weight		10.5 kg		10.5 kg		15 kg		12 kg	
Order No.		0172-801		0172-804		0172-807		0172-810		
<p>Three-phase motor 230/400 V, 50 Hz, protection class IP 55 with cable terminal box or IP 54 with attached Protection switch as on-/off-switch. Special voltages, frequencies, protection classes as well as higher explosion proof protection classes on request.</p>										
	<b>Compressed air motors</b>		<b>For B70V - 12.1</b>				<b>For B70V - 25.1</b>			
	Type		4 DA, 0,5 kW, 900 1/min., weight 5 kg, operating pressure at 6 bar, air consumption 55 Nm³/h, 87 dB (A) air supply thread G 3/8				6 DA, 1,0 kW, 900 1/min., weight 10 kg, operating pressure at 6 bar, air consumption 80 Nm³/h, 87 dB (A) air supply thread G 1/2			
	Order No.		0172-821				0172-822			
<p>Compressed air motors with muffler up to an operation pressure at 7 bar, recommended speed (200 - 900 1/min).</p>										

Dimensions see Chapter 6 page 265

# B70V 12.1 and 25.1

for viscosities from 1 - 100.000 mPas

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

	B70V 12.1/25.1	B70 V 25.1 Steel
Housing:	Stainless steel (1.4571)	galvanized steel
Rotor:	Stainless steel (1.4571)	soft-nitrated steel
Seals:	FPM (Viton®)	FPM (Viton®)
Mechanical seal:	carbon/CrMo-cast., Viton® (optional SIC/SIC, Viton®)	carbon/CrMo-cast., Viton® (optional SIC/SIC, Viton®)
Packing gland:	PTFE soft packing safe for use with foodstuffs	none
Drive shaft:	Stainless steel (1.4571)	galvanized steel
Stator materials:	NBR light, Viton®, PTFE	NBR light, Viton®, PTFE

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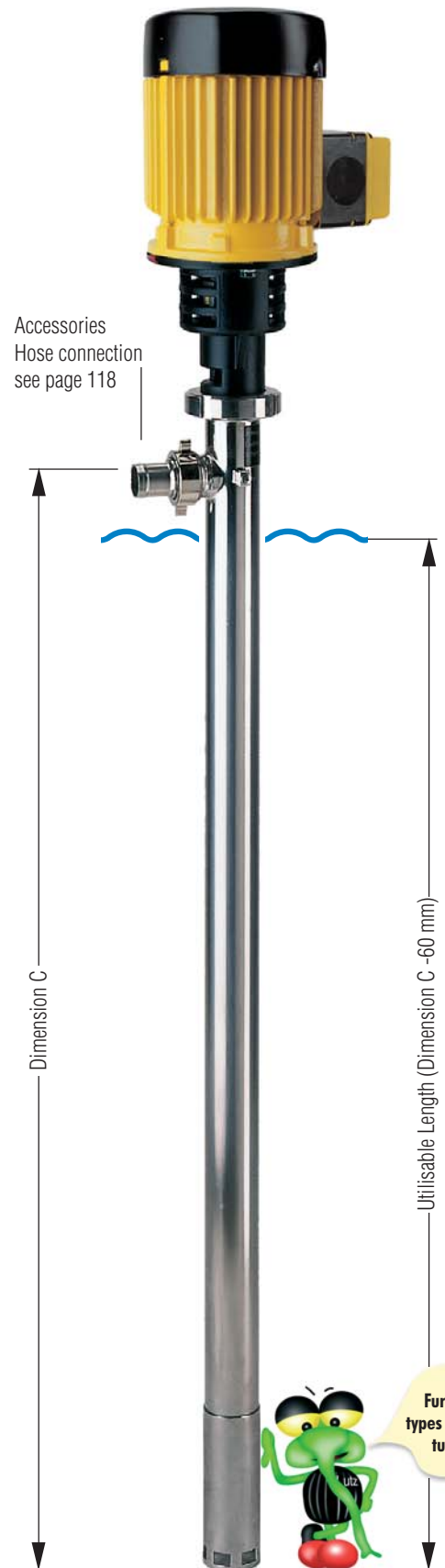
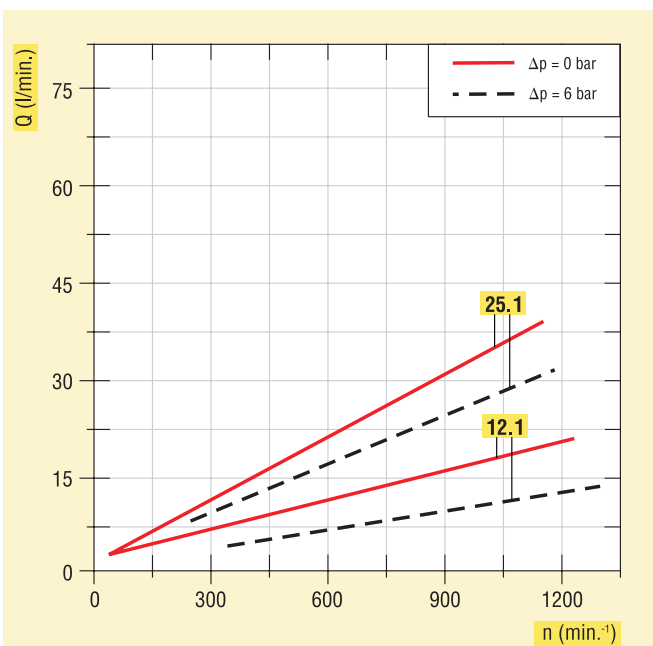
Pump tube with torsion shaft (TS) and stator NBR light in physiologically safe version (PU). The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.  
Additional costs see price list.



### Important Information!

When pumping in „Zone 0“ 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 chapter **06**, page 250.



Detail dimensions see chapter **06** pages 263-264



Suitable range of accessories see pages 117-119