




# Lutz Eccentric Screw Pumps

## B70V 12.1 and 25.1

Product detail			Pump tube						B70V	
	Size		<b>12.1</b>	<b>12.1</b>	<b>12.1</b>	<b>25.1</b>	<b>25.1</b>	<b>25.1</b>	<b>25.1 Steel</b>	
	Seal	Packing gland (St)	MS	MS	St	MS	MS	St	MS	
		Mechanical seal (MS)								
	Drive shaft	Torsion shaft (TS)	TS	UJ	UJ	TS	UJ	UJ	TS	
		Universal joint shaft (UJ)								
	Delivery rate*	up to l/min.	12	12	12	25	25	25	25	
	Delivery head*	up to bar	6	6	6	8	8	8	8	
	Temp. of medium**	up to °C	140	140	140	140	140	140	80	
	Material outer tube		1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	1.4571/1.4404	Galv. Steel	
	Immersion tube diameter	mm	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	
	Weight	kg	7	7	7	7	7	7	7	
	Length***	mm	1000	1000	1000	1000	1000	1000	1000	
	Stator NBR light (T max. 80 °C)	Order-No.	-	-	-	<b>0172-121</b>	<b>0173-131</b>	<b>0173-121</b>	<b>0171-121</b>	
	Stator FPM (T max. 140 °C)	Order-No.	-	-	-	<b>0172-122</b>	<b>0173-132</b>	<b>0173-122</b>	<b>0171-122</b>	
Stator PTFE (T max. 140 °C)	Order-No.	<b>0172-004</b>	<b>0173-014</b>	<b>0173-004</b>	<b>0172-124</b>	<b>0173-134</b>	<b>0173-124</b>	<b>0171-124</b>		
<b>B70V HD-D</b> Stator PTFE (T max. 100 °C)	Order-No.		<b>0173-016</b>			<b>0173-136</b>				
<p>* 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)</p>										
<p>● 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</p>										
<b>Motor selection</b>										
	<b>Motors with cable terminal box</b>		<b>For B70V - 12.1 and B70V - 25.1</b>							
	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      34 kg			
	Order No.		<b>0172-901</b>		<b>0172+826</b>		<b>0172-903</b>			
	<b>Motors with protection switch</b>		<b>For B70V - 12.1 and B70V - 25.1</b>							
	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      34 kg			
	Order No.		<b>0172-900</b>		<b>0172+825</b>		<b>0172-902</b>			
	<b>Motors, explosion proof</b>		<b>For B70V - 12.1 and B70V - 25.1</b>							
	Version		0.55 kW, 900 1/min.		0.95 kW, 900 1/min.					
Protection class		II 2 G Ex e II T3		II 2 G Ex e II T3						
Protection type/weight		IP 55      17 kg		IP 55      23 kg						
Order No.		<b>0172-804</b>		<b>0172-816</b>						
<b>Motors with frequency converter</b>		<b>For B70V - 12.1 and B70V - 25.1</b>								
Version		0.75 kW, 0-900 1/min.		1.5 kW, 0-900 1/min.						
Protection type/weight		IP 55      22 kg		IP 55      37 kg						
Order No.		<b>0172-768</b>		<b>0172-766</b>						
	<b>Compressed air motor</b>		<b>For B70V - 12.1 and B70V - 25.1</b>							
	Version		<b>4 DA</b> , 0.45 kW, 900 1/min., Weight 5 kg, Operating pressure: at 6 bar, Air consumption 55 Nm <sup>3</sup> /h, 87 db (A)				<b>6 DA</b> , 1.0 kW, 900 1/min., Weight 14 kg, Operating pressure: at 6 bar, Air consumption 80 Nm <sup>3</sup> /h, 87 db (A)			
	Air connection thread		G 3/8				G 1/2			
	Order No.		<b>0172-821</b>				<b>0172-822</b>			
	Compressed air motors with muffler, max. operating pressure 7 bar, recommended speed (200 - 900 1/min.)									



# B70V 12.1 and 25.1

for viscosities from 1 - 100,000 mPas

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

Version:	B70V 12.1/25.1	B70V 25.1 Steel	B70V HD 12.1/25.1
Housing:	SS (1.4571/1.4404)	galvanized steel	SS (1.4571/1.4404)
Rotor:	SS (1.4571)	soft-nitrided steel	SS (1.4571)
Seals:	FPM	FPM	FPM
Mechanical seal:	Carbon/CrMo-casting, FPM optional SiC/SiC, FPM	Carbon/CrMo-casting, FPM optional SiC/SiC, FPM	WC/WC/FPM
Packing gland:	PTFE Soft packing safe for use with food-stuffs	-	-
Drive shaft:	SS (1.4571)	galvanized steel	SS (1.4571)
Stator material:	NBR light, FPM, PTFE	NBR light, FPM, PTFE	PTFE



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 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 chemical resistance table.

