

# Lutz Eccentric Screw Pumps

## B70V 80.1 and 120.1

### Product detail



Pump tube		B70V			
Size		80.1	80.1	120.1	120.1
Category 1 / 2 (acc. to Atex 100a)		no	no	no	no
Seal	Packing gland (St) Mechanical seal (MS)	MS	St	MS	St
Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	UJ	UJ	UJ	UJ
Delivery rate*	up to l/min.	80	80	120	120
Delivery head*	up to bar	6	6	6	6
Temp. of medium**	up to °C	140	140	140	140
Material pump tube		1.4571	1.4571	1.4571	1.4571
Immersion tube diameter	mm	120	120	120	120
Pressure joint	Outer thread	G 2	G 2	G 2	G 2
Weight	kg	15	15	15	15
Length***	mm	1000	1000	1000	1000
Stator PTFE (T max. 140 °C)	Order No.	<b>0175-004</b>	<b>0175-024</b>	<b>0175-124</b>	<b>0175-144</b>

\* Determined with water at 20 °C, three-phase motor (600 or 700 1/min) and elastomer stator.

\*\* with PTFE Stator

\*\*\* Special length 500 - 2500 mm on request

### Choice of motors



Three-phase gear motors with cable terminal box	B70V 80.1 – 120.1		
Type	1.5 kW, 230/400 V, IP 55	2.2 kW, 230/400 V, IP 55	3.0 kW, 230/400 V, IP 55
Weight	36 kg	39 kg	44 kg
Order No.	<b>on request</b>	<b>on request</b>	<b>on request</b>

Three-phase, variable gear motors with cable terminal box	B70V 80.1 – 120.1		
	speed range manually adjustable		
Type	1.5 kW, 230/400 V, IP 55	2.2 kW, 230/400 V, IP 55	3.0 kW, 230/400 V, IP 55
Weight	57 kg	62 kg	65 kg
Order No.	<b>on request</b>	<b>on request</b>	<b>on request</b>

### Drive motors

Three-phase motors 230/400 V, 50 Hz, protection class IP 55 with cable terminal box, special voltages, frequencies, protection class, explosion proof types on request.



### Connection dimensions for motor flange:

Shaft diameter:	30 mm
Shaft length:	70 mm
Centring diameter:	110 mm
Pitch circle diameter:	130 mm
Screws:	4 x M 8

# B70V 80.1 and 120.1

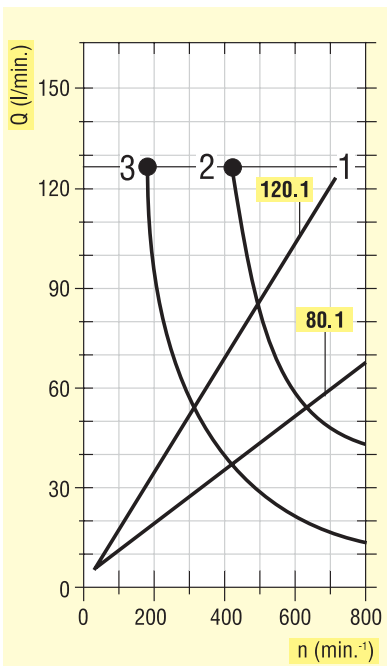
for viscosities from 1 - 120.000 mPas

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

### B70V 80.1/120.1

Housing:	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)
Seals:	FPM (Viton®)
Mechanical seal:	cutting metal/cutting metal, Viton®
Packing gland:	PTFE soft packing safe for use with foodstuffs
Drive shaft:	Stainless steel (1.4571)
Stator material:	PTFE

Viton® is a registered trademark of DuPont Dow Elastomers.



### Range 1:

Thin-bodied, lubricating fluids such as wine, milk, oils etc.  
 $\eta < 7000$  mPas

### Range 2:

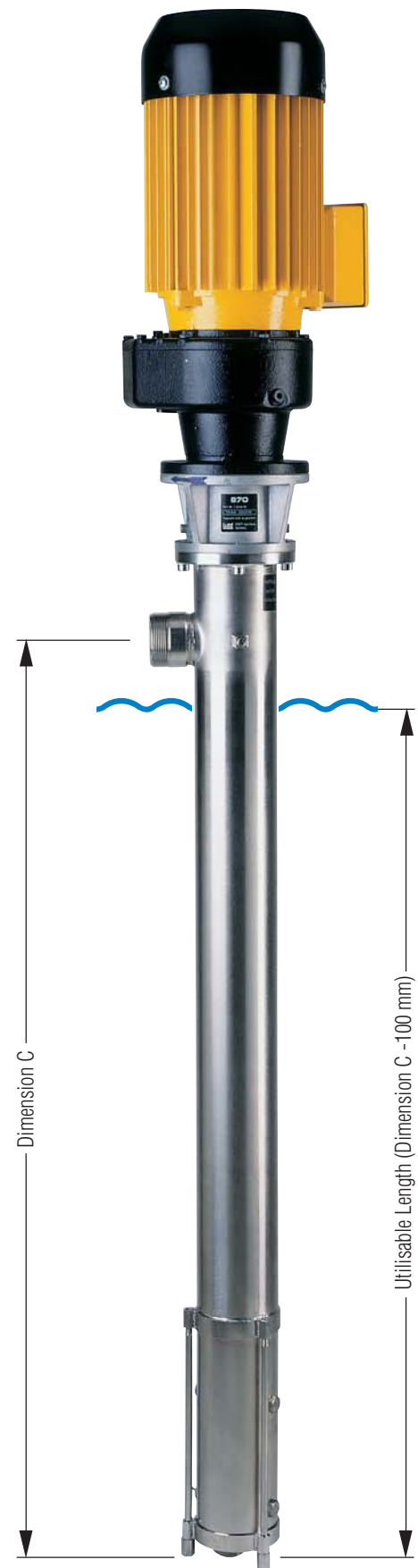
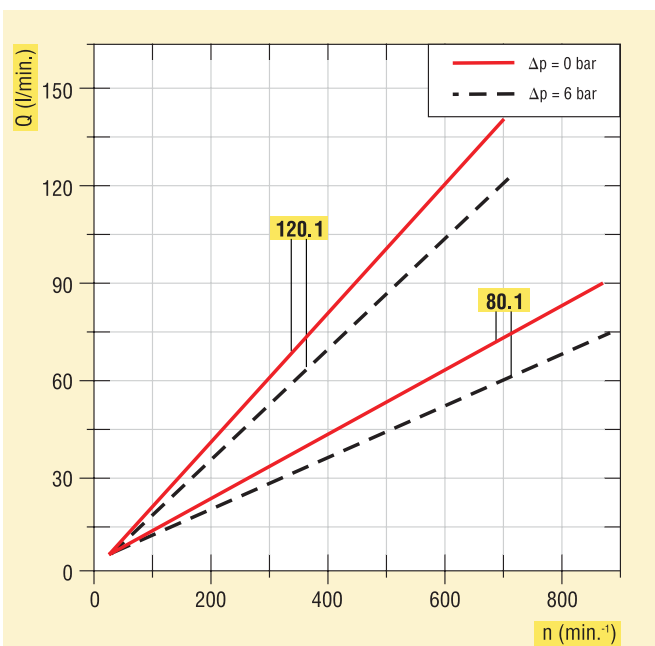
Abrasive and viscous fluids such as pulps, adhesives, paints, inks, etc.  
 $\eta < 20000$  mPas

### Range 3:

Very abrasive and highly viscous fluids such as honey, greases, syrups, etc.  
 $\eta > 20000$  mPas

### Viscosity range:

Aqueous



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Detail dimensions see chapter 06 page 263