

B70V-SR and B70V HD-SR 12.1 and 25.1

for viscosities from 1 - 30,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V-SR 12.1/25.1	B70V HD-SR 12.1/25.1	B70V-SR PURE 12.1/25.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)	FPM (Viton®) or EPDM
Mechanical seal:	Carbon/CrMo-casting, Viton®	WC/WC/EPDM	WC/SiC/FKM-FDA or EPDM-FDA
Packing gland:	PTFE Soft packing safe for use with foodstuffs	–	–
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE	PTFE

Viton® is a registered trademark of DuPont Performance Elastomers.



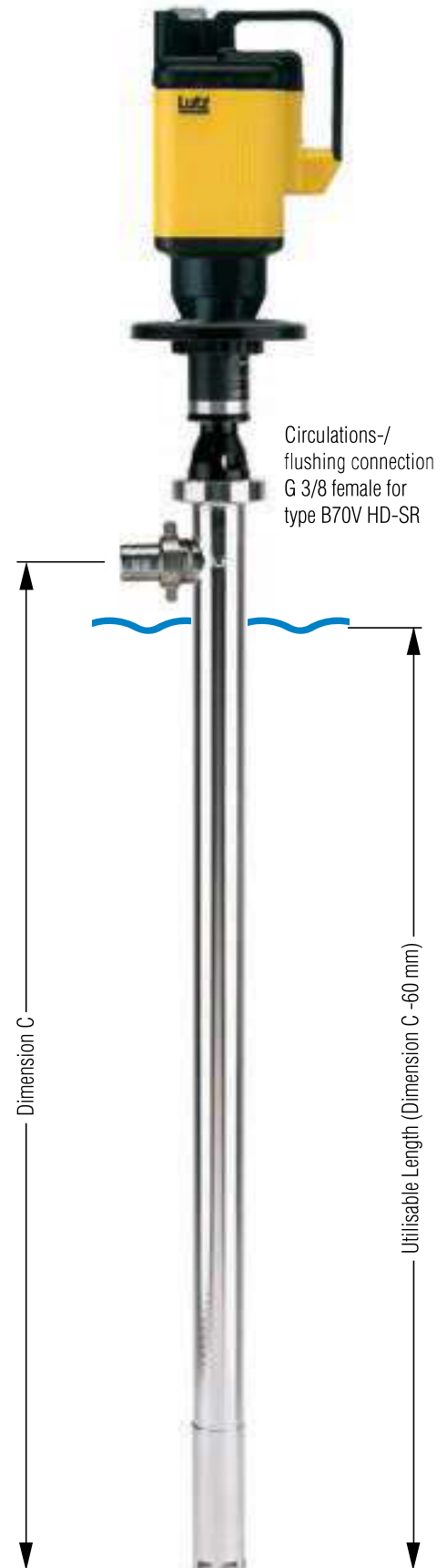
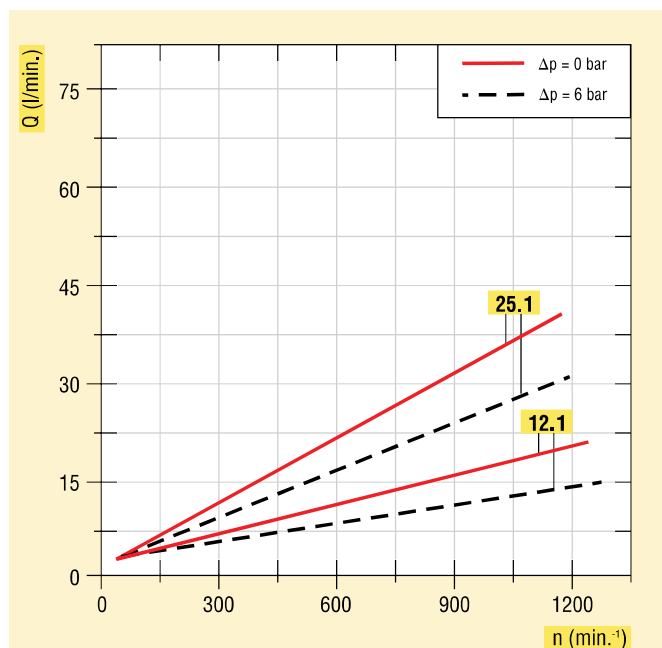
Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

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.



Circulations-/ flushing connection G 3/8 female for type B70V HD-SR

Lutz Eccentric Screw Pumps



B70V-SR and B70V HD-SR 12.1 and 25.1


Productdetail		Pump tube						B70V-SR			
	Size		12.1	12.1	12.1	25.1	25.1	25.1			
	Seal	Packing gland (St) Mechanical seal (MS)	MS	MS	St	MS	MS	St			
	Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	UJ	TS	UJ	UJ			
	Delivery rate*	up to l/min.	12	12	12	25	25	25			
	Delivery head*	up to bar	6	6	6	8	8	8			
	Temp. of medium**	up to °C	140	140	140	140	140	140			
	Material pump tube		1.4571	1.4571	1.4571	1.4571	1.4571	1.4571			
	Immersion tube diameter	mm	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			
	Weight	kg	7	7	7	7	7	7			
	Length***	mm	1000	1000	1000	1000	1000	1000			
	Stator NBR light (T max. 80 °C)	Order-No.	–	–	–	0174-131	0174-141	0174-121			
	Stator Viton® (T max. 140 °C)	Order-No.	–	–	–	0174-132	0174-142	0174-122			
	Stator PTFE (T max. 140 °C)	Order-No.	0174-014	0174-024	0174-004	0174-134	0174-144	0174-124			
B70V HD-SR Stator PTFE (T max. 100 °C)	Order-No.		0174-026			0174-146					


* 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)


Combination of packing gland and torsion shaft on request

● 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

Choice of motors						
	Universal motors non-ex. proof	MI 4	MI 4-E	MA II 3	MA II 5	MA II 7
	Type	500 W, 230 V	500 W, 230 V	460 W, 230 V	575 W, 230 V	795 W, 230 V
	Protection class/Weight	IP 24 2.8 kg	IP 24 2.8 kg with speed contr.	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg
	Order-No. (without low-voltage release)	0030-000	0030-001	0060-000	0060-001	0060-002
Order-No. (with low-voltage release)	–	–	0060-008	0060-009	0060-010	

	Universal motors explosion proof	ME II 3	ME II 5	ME II 7	ME II 8
	Type	460 W, 230 V	580 W, 230 V	795 W, 230 V	930 W, 230 V
	Protection class/Weight	IP 54 5.5 kg	IP 54 6.3 kg	IP 54 7.5 kg	IP 54 8 kg
	Order-No. (with low-voltage release)	0050-000	0050-001	0050-002	0050-042
Order-No. (without low-voltage release)	0050-016	0050-017	0050-018	0050-041	

	Compressed air motors	MD-1	MD-2	MD-3
	Type	400 W	400 W	400 W
	Operating pressure:	6 bar	6 bar	6 bar
	Weight	1.1 kg	1.5 kg	2.1 kg
Order-No.	0004-087	0004-088	0004-090	

▲ PURE version Tri-Clamp DN 50 Different voltages and frequencies on request

B70V-SR and B70V HD-SR 50.1

for viscosities from 1 - 20,000 mPas

Materials (coming into contact with the pumped medium):

Version:	B70V-SR 50.1	B70V HD-SR 50.1	B70V-SR PURE 50.1
Housing:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Rotor:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Seals:	FPM (Viton®)	FPM (Viton®)	FPM (Viton®) or EPDM
Mechanical seal:	Carbon/CrMo-casting, Viton®	WC/WC/EPDM	WC/SiC/FKM-FDA or EPDM-FDA
Packing gland:	PTFE Soft packing safe for use with foodstuffs	–	–
Drive shaft:	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Stator material:	NBR light, Viton®, PTFE	PTFE	PTFE

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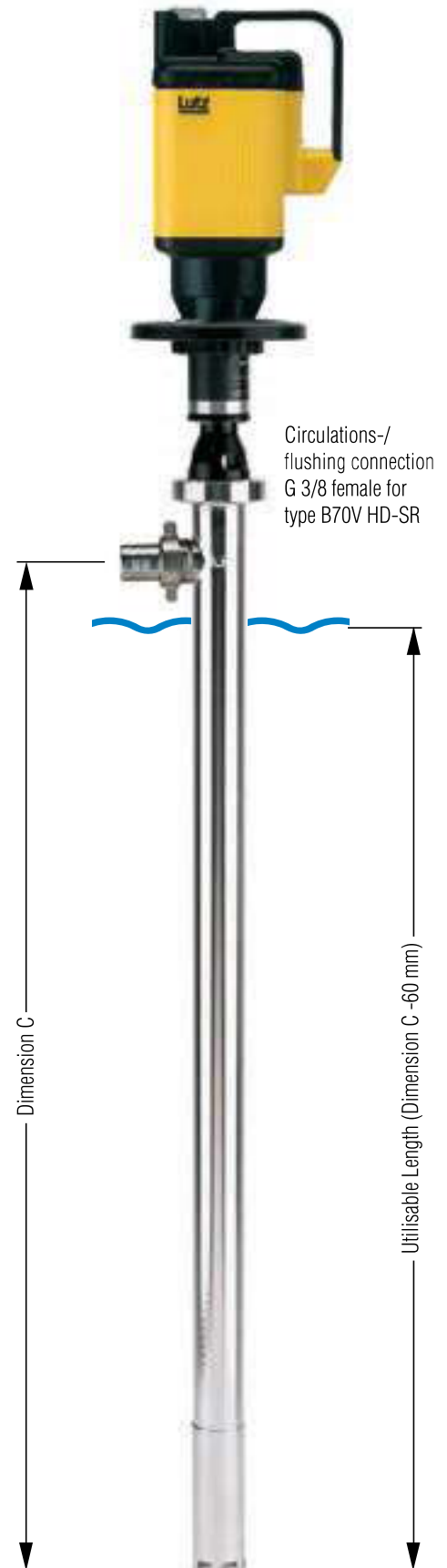
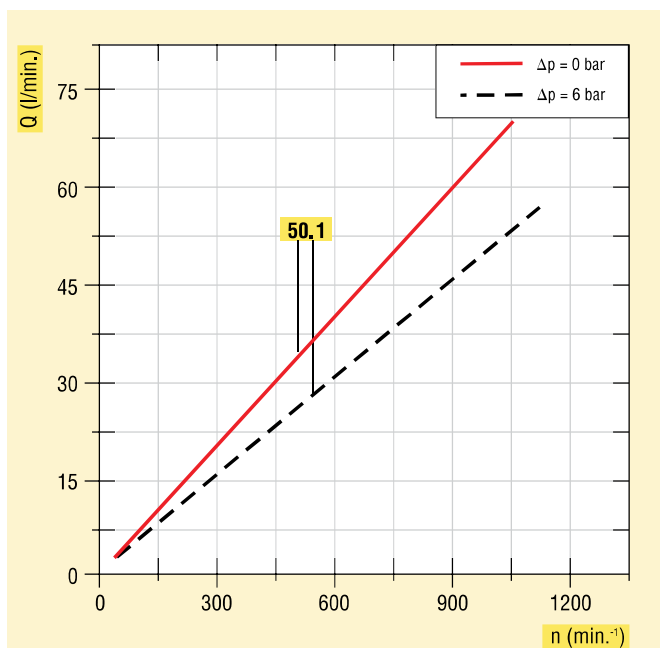
Pump tube with PTFE stator, also available in PURE version with Tri-Clamp-connection. The pump tubes are mainly used in the food-, cosmetics- and pharmaceutical industry.

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.



Lutz Eccentric Screw Pumps

B70V-SR and B70V HD-SR 50.1

Productdetail		Pump tube			B70V-SR		
	Size		50.1	50.1	50.1	50.1	
	Seal	Packing gland (St) Mechanical seal (MS)	MS	MS	MS	St	
	Drive shaft	Torsion shaft (TS) Universal joint shaft (UJ)	TS	UJ	UJ	UJ	
	Delivery rate*	up to l/min.	50	50	50	50	
	Delivery head*	up to bar	8	8	8	8	
	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	54	54	54	54	
	Pressure joint ▲	Outer thread	G 1 1/2	G 1 1/2	G 1 1/2	G 1 1/2	
	Weight	kg	7	7	7	7	
	Length***	mm	1100	1100	1100	1100	
	Stator NBR light (T max. 80 °C)	Order-No.	0174-511	0174-521	0174-501	0174-501	
	Stator Viton® (T max. 140 °C)	Order-No.	0174-512	0174-522	0174-502	0174-502	
	Stator PTFE (T max. 140 °C)	Order-No.	0174-514	0174-524	0174-504	0174-504	
B70V HD-SR Stator PTFE (T max. 100 °C)	Order-No.		0174-526				
<p>* 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)</p> <p>Combination of packing gland and torsion shaft on request.</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>							
Choice of motors							
	Universal motors non-ex. proof	MI 4	MI 4-E	MA II 3	MA II 5	MA II 7	
	Type	500 W, 230 V	500 W, 230 V	460 W, 230 V	575 W, 230 V	795 W, 230 V	
	Protection class/Weight	IP 24 2.8 kg	IP 24 2.8 kg	IP 54 4.6 kg	IP 54 5.4 kg	IP 54 6.6 kg	
	Order-No. (without low-voltage release)	0030-000	0030-001	0060-000	0060-001	0060-002	
	Order-No. (with low-voltage release)	-	-	0060-008	0060-009	0060-010	
	Universal motors explosion proof	ME II 3	ME II 5	ME II 7	ME II 8		
	Type	460 W, 230 V	580 W, 230 V	795 W, 230 V	930 W, 230 V		
	Protection class/Weight	IP 54 5.5 kg	IP 54 6.3 kg	IP 54 7.5 kg	IP 54 8 kg		
	Order-No. (with low-voltage release)	0050-000	0050-001	0050-002	0050-042		
	Order-No. (without low-voltage release)	0050-016	0050-017	0050-018	0050-041		
	Compressed air motors	MD-1	MD-2	MD-3			
	Type	400 W	400 W	400 W			
	Operating pressure:	6 bar	6 bar	6 bar			
	Weight	1.1 kg	1.5 kg	2.1 kg			
	Order-No.	0004-087	0004-088	0004-090			

▲ PURE version Tri-Clamp DN 50 Different voltages and frequencies on request