

ETLL025-025-071 GPSAV11D200252M AATB

Inline pump

Ident number 48270078

Operating data

Requested flow rate		Actual flow rate	1.61 m³/h
Requested developed head		Actual developed head	5.79 m
Pumped medium	Antifreeze on propylene glycol base, inhibited, closed system, e.g. Antifrogen L or similar products	Efficiency	27.5 %
	Concentration 35%	Power absorbed	0.10 kW
	Not containing chemical and mechanical substances which affect the materials	Pump speed of rotation	2902 rpm
		Permissible operating pressure	10.00 bar.g
Ambient air temperature	20.0 °C	Discharge press.	0.59 bar.g
Fluid temperature	-8.0 °C	Min. allow. flow for continuous stable operation	0.05 m³/h
Fluid density	1047 kg/m³		
Fluid viscosity	15.47 mm²/s	Min. allow. mass flow for continuous stable operation	0.01 kg/s
Suction pressure max.	0.00 bar.g	Shutoff head	6.16 m
Mass flow rate	0.47 kg/s	Max. allow. mass flow	2.51 kg/s
Max. power on curve	0.17 kW	Design	Single system 1 x 100 %

Design

Pump standard	Without	Manufacturer	KSB
Design	Close-coupled in-line	Type	TYPE 2100
Orientation	Horizontal	Material code	BQ1EGG
Suction nominal dia.	G 1 1/2	Shaft seal code	11
Suction nominal pressure	PN 10	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Suction position	180° (down)		
Suction flange drilled according to standard	EN ISO 228-1	Seal chamber design	Conical seal chamber (A-type cover)
Discharge nominal dia.	G 1 1/2	Impeller diameter	71.0 mm
Discharge nominal pressure	PN 10	Direction of rotation from drive	Anticlockwise
Discharge position	top (0°/360°)	Bearing bracket construction	Close-coupled
Discharge flange drilled according to standard	EN ISO 228-1	Bearing type	Anti-friction bearings
Shaft seal	Single acting mechanical seal	Lubrication type	Grease
		Color	Vermilion (RAL 2002)

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Driver, accessories

Driver type	Electric motor	Cos phi at 4/4 load	0.90
Drive standard mech.	IEC	Motor efficiency at 4/4 load	62.0 %
Model (make)	KSB	Temperature classes aggregate	""
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Temperature class motor	""
Motor const. type	B14	Temperature sensor	Without
Motor size	63M	Terminal box position	0°/360° (top)
Motor speed	2898 rpm		Viewed from the drive
Frequency	50 Hz	Motor winding	230 / 400 V
Rated voltage	400 V	Number of poles	2
Rated power P2	0.25 kW	Connection mode	Star
Available reserve	158.37 %	Motor cooling method	Surface cooling
Rated current	2.0 A	Motor material	AC-46200F-D
Starting current ratio	3.3	Frequency inverter operation allowed	FI allowed
Insulation class	F to IEC 34-1	Motor noise pressure level	62 dBa
Motor enclosure	IP55		

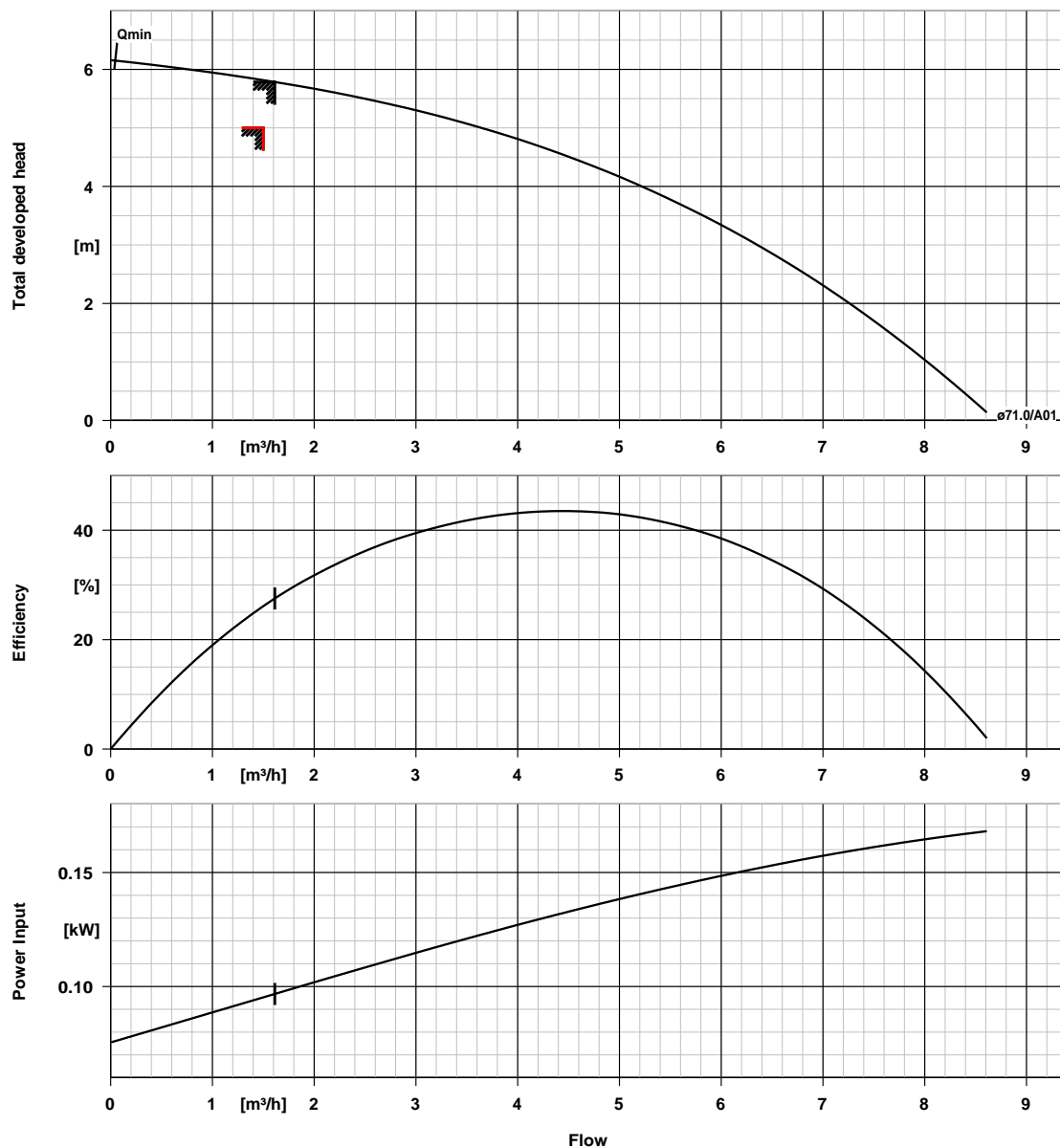
Materials GP

Volute casing (102)	Cast iron EN-GJL-200	Motor stool (341)	Aluminium AC-46500
Shaft (210)	Stainless steel 1.4571	O-Ring (412.50)	EPDM 70 PEROXYD
Impeller (230)	Polysulphon PSU-GF30	Cap (580)	Polyamid 66

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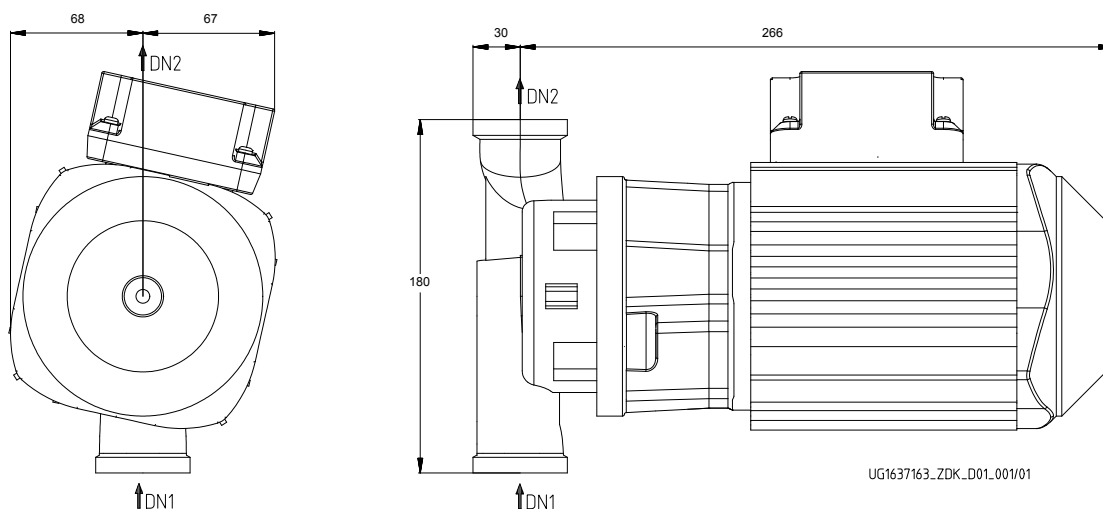
Curve data

Speed of rotation	2902 rpm	Requested developed head	5.00 m
Fluid density	1047 kg/m³	Efficiency	27.5 %
Viscosity	15.47 mm²/s	Power absorbed	0.10 kW
Flow rate	1.61 m³/h	Curve number	K1159.452/71Ø71
Requested flow rate	1.50 m³/h	Effective impeller diameter	71.0 mm
Total developed head	5.79 m		

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UG1637163_ZDK_D01_001/01

Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	KSB
Motor size	63M
Motor power	0.25 kW
Number of poles	2
Speed of rotation	2898 rpm
Position of terminal box	0°/360° (top)
	Viewed from the drive

Connections

Suction nominal size DN1	G 1 1/2 / EN ISO 228-1
Discharge nominal size DN2	G 1 1/2 / EN ISO 228-1
Nominal pressure suct.	PN 10
Rated pressure disch.	PN 10

Weight net

Pump	9 kg
Total	9 kg

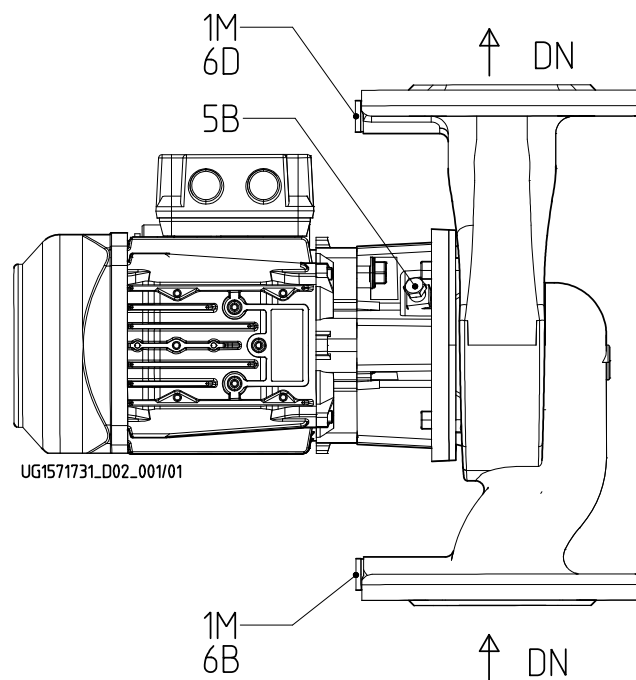
Connect pipes without stress or strain!

For auxiliary connections see separate drawing.

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Connections

1M Pressure gauge connection	G 1/4	Drilled and plugged.
6D Pumped medium - filling / venting	G 1/4	Drilled and plugged.
5B venting		Closed with venting plug
6B Pumped liquid drain	G 1/4	Drilled and plugged.