

**ETLD040-040-100 GGS AV11D400752M AATB**

Inline pump

Ident number 48270034

**Operating data**

Requested flow rate		Actual flow rate	10.03 m³/h
Requested developed head		Actual developed head	9.06 m
Pumped medium	Water	Efficiency	45.4 %
	Clean water	MEI (Minimum Efficiency Index)	= 0.70
	Not containing chemical and mechanical substances which affect the materials	Power absorbed	0.54 kW
Ambient air temperature	20.0 °C	Pump speed of rotation	2865 rpm
Fluid temperature	20.0 °C	Permissible operating pressure	10.00 bar.g
Fluid density	998 kg/m³	Discharge press.	0.89 bar.g
Fluid viscosity	1.00 mm²/s	Min. allow. mass flow for continuous stable operation	1.01 kg/s
Suction pressure max.	0.00 bar.g	Shutoff head	11.21 m
Mass flow rate	2.78 kg/s	Max. allow. mass flow	5.71 kg/s
Max. power on curve	0.66 kW	Design	Twin system one full duty + one standby pump
Min. allow. flow for continuous stable operation	3.65 m³/h		

**Design**

Pump standard	Without	Manufacturer	KSB
Design	Close coupled twin inline	Type	TYPE 2100
Orientation	Horizontal	Material code	BQ1EGG
Suction nominal dia.	DN 40	Shaft seal code	11
Suction nominal pressure	PN 6/10	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Suction position	180° (down)	Seal chamber design	Conical seal chamber (A-type cover)
Suction flange drilled according to standard	EN1092-2	Impeller diameter	98.0 mm
Discharge nominal dia.	DN 40	Direction of rotation from drive	Anticlockwise
Discharge nominal pressure	PN 6/10	Bearing bracket construction	Close-coupled
Discharge position	top (0°/360°)	Bearing type	Anti-friction bearings
Discharge flange drilled according to standard	EN1092-2	Lubrication type	Grease
Shaft seal	Single acting mechanical seal	Color	Vermilion (RAL 2002)

**Driver, accessories**

Driver type	Electric motor	Cos phi at 4/4 load	0.94
Drive standard mech.	IEC	Motor efficiency at 4/4 load	74.0 %
Model (make)	KSB	Temperature classes	""
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	aggregate	""
Motor const. type	B14	Temperature class motor	""
Motor size	071M	Temperature sensor	Without
Frequency	50 Hz	Terminal box position	0°/360° (top)
Rated voltage	230 V		Viewed from the drive
Rated power P2	0.75 kW	Motor winding	230 V
Available reserve	37.77 %	Number of poles	2
Rated current	4.8 A	Connection mode	Star
Starting current ratio	4.4	Motor cooling method	Surface cooling
Insulation class	F to IEC 34-1	Motor material	AC-46200F-D
Motor enclosure	IP55	Frequency inverter operation allowed	FI allowed
		Motor noise pressure level	65 dBa

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**Materials GG**

**Notes 1**

General criteria for a water analysis: pH-value  $\geq 7$ ; chloride content (Cl)  $\leq 250$  mg/kg. Chlorine (Cl<sub>2</sub>)  $\leq 0.6$  mg/kg.

Volute casing (102)

Cast iron EN-GJL-200

Shaft (210)

Stainless steel 1.4571

Impeller (230)

Motor stool (341)

O-Ring (412.50)

Cap (580)

Grey cast Iron EN-GJL-150

Aluminium AC-46500

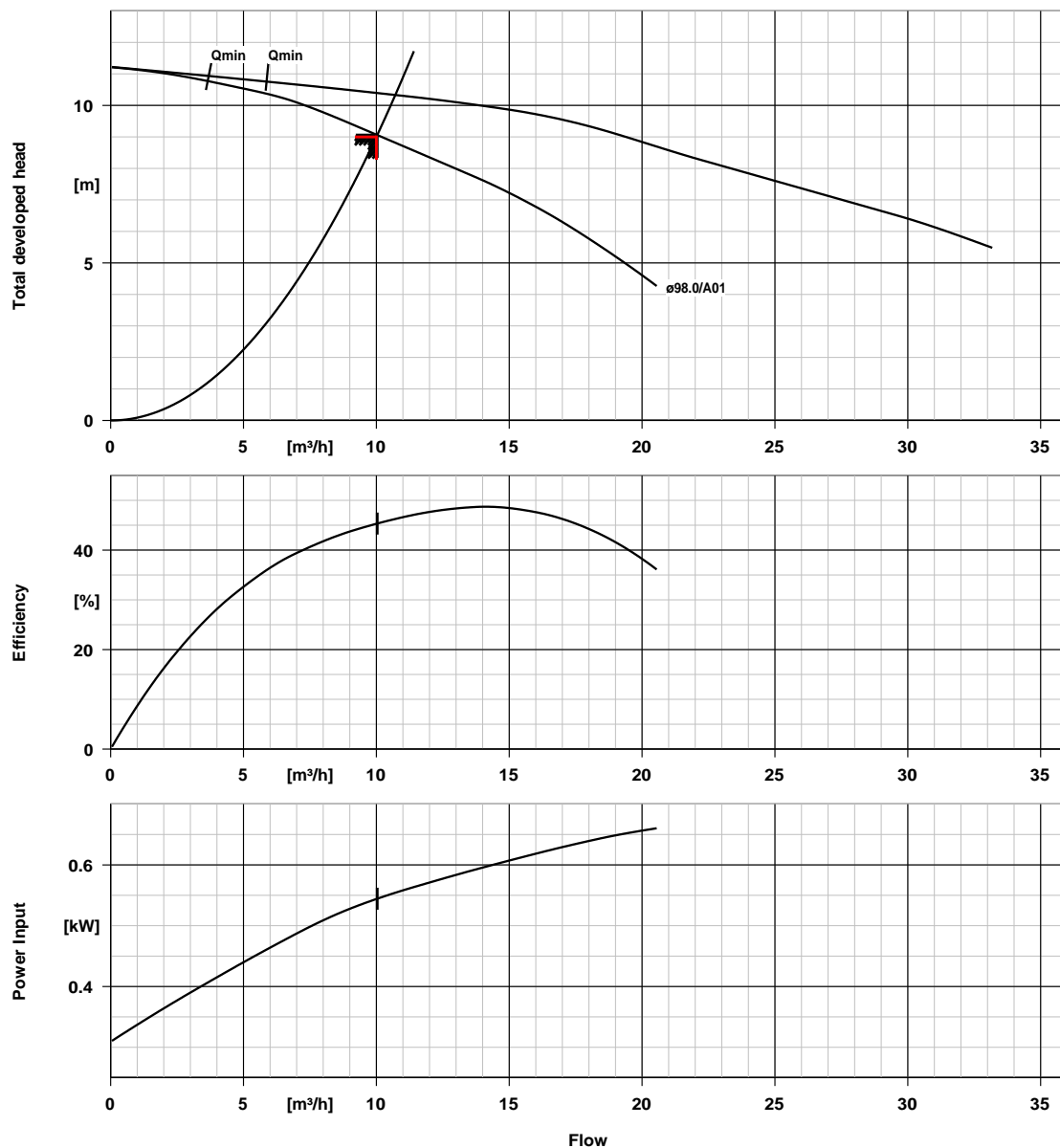
EPDM 70 PEROXYD

Polyamid 66

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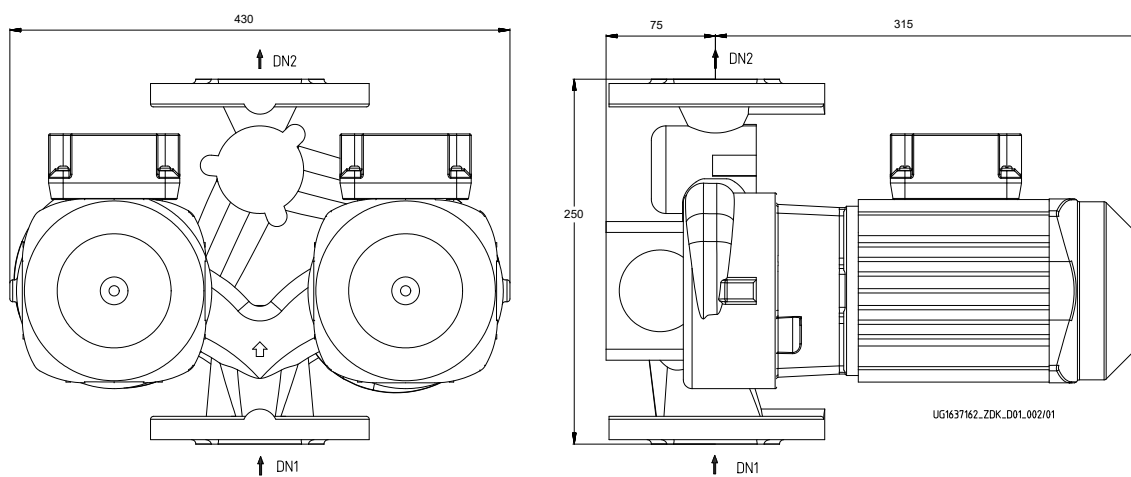
**Curve data**

Speed of rotation	2865 rpm	Requested developed head	9.00 m
Fluid density	998 $\text{kg}/\text{m}^3$	Efficiency	45.4 %
Viscosity	1.00 $\text{mm}^2/\text{s}$	MEI (Minimum Efficiency Index)	= 0.70
Flow rate	10.03 $\text{m}^3/\text{h}$	Power absorbed	0.54 kW
Requested flow rate	10.00 $\text{m}^3/\text{h}$	Curve number	K1161.452/77Ø98
Total developed head	9.06 m	Effective impeller diameter	98.0 mm

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*Drawing is not to scale*

*Dimensions in mm*

### Motor

Motor manufacturer	KSB
Motor size	071M
Motor power	0.75 kW
Number of poles	2
Speed of rotation	2859 rpm
Position of terminal box	0°/360° (top) Viewed from the drive

### Connections

Suction nominal size DN1	DN 40 / EN1092-2
Discharge nominal size DN2	DN 40 / EN1092-2
Nominal pressure suct.	PN 6/10
Rated pressure disch.	PN 6/10

### Weight net

Pump	36 kg
Total	36 kg

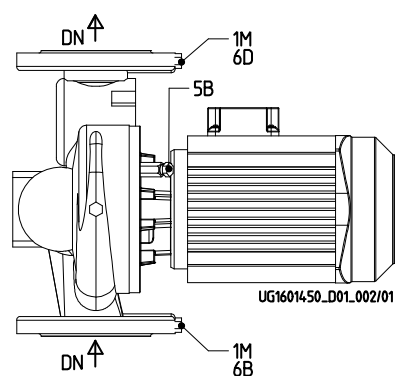
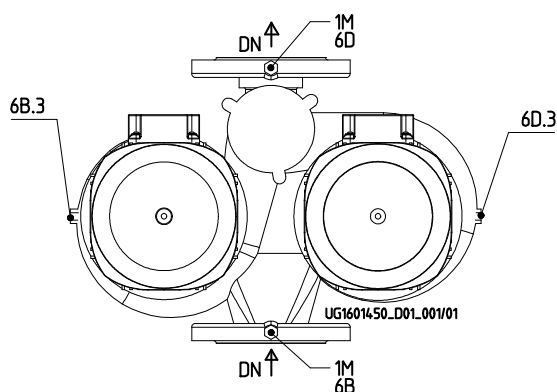
**Connect pipes without stress or strain!**

**For auxiliary connections see separate drawing.**

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### Connections

1M Pressure gauge connection	G 1/4
6D Pumped medium - filling / venting	G 1/4
6D.3 Pumped medium - filling / venting	G 1/8
5B venting	
6B Pumped liquid drain	G 1/4
6B.3 Pumped liquid drain	G 1/8

Drilled and plugged.  
 Drilled and plugged.  
 Drilled and plugged.  
 Closed with venting plug  
 Drilled and plugged.  
 Drilled and plugged.