

ETLD040-040-100 GGSV11D400752M AATB

Inline pump

Ident number 48270034

Operating data

Requested flow rate	10.03 m ³ /h
Requested developed head	9.06 m
Pumped medium	Water
	Clean water
	Not containing chemical and mechanical substances which affect the materials
Ambient air temperature	20.0 °C
Fluid temperature	20.0 °C
Fluid density	998 kg/m ³
Fluid viscosity	1.00 mm ² /s
Suction pressure max.	0.00 bar.g
Mass flow rate	2.78 kg/s
Max. power on curve	0.66 kW
Min. allow. flow for continuous stable operation	3.65 m ³ /h
Actual flow rate	10.03 m ³ /h
Actual developed head	9.06 m
Efficiency	45.4 %
MEI (Minimum Efficiency Index)	= 0.70
Power absorbed	0.54 kW
Pump speed of rotation	2865 rpm
Permissible operating pressure	10.00 bar.g
Discharge press.	0.89 bar.g
Min. allow. mass flow for continuous stable operation	1.01 kg/s
Shutoff head	11.21 m
Max. allow. mass flow	5.71 kg/s
Design	Twin system one full duty + one standby pump

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	Without
Motor size	071M	Temperature sensor	0°/360° (top)
Frequency	50 Hz	Terminal box position	Viewed from the drive
Rated voltage	230 V	Motor winding	230 V
Rated power P2	0.75 kW	Number of poles	2
Available reserve	37.77 %	Connection mode	Star
Rated current	4.8 A	Motor cooling method	Surface cooling
Starting current ratio	4.4	Motor material	AC-46200F-D
Insulation class	F to IEC 34-1	Frequency inverter operation allowed	FI allowed
Motor enclosure	IP55	Motor noise pressure level	65 dBA

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Materials GG

Notes 1

General criteria for a water analysis: pH-value >= 7; chloride content (Cl) <=250 mg/kg. Chlorine (Cl2) <=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

Performance curve

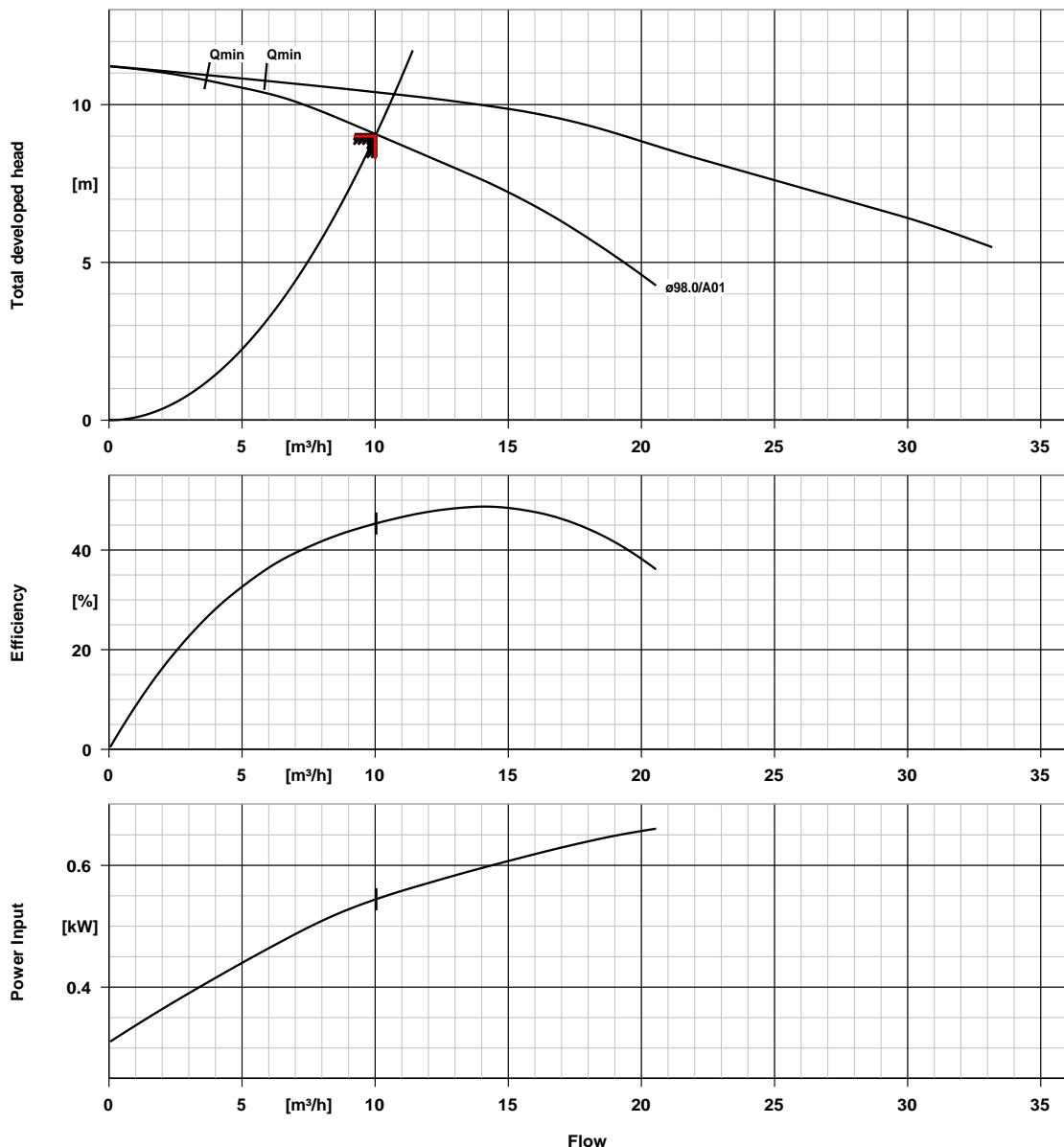


Page: 3 / 5

ETLD040-040-100 GGSV11D400752M AATB

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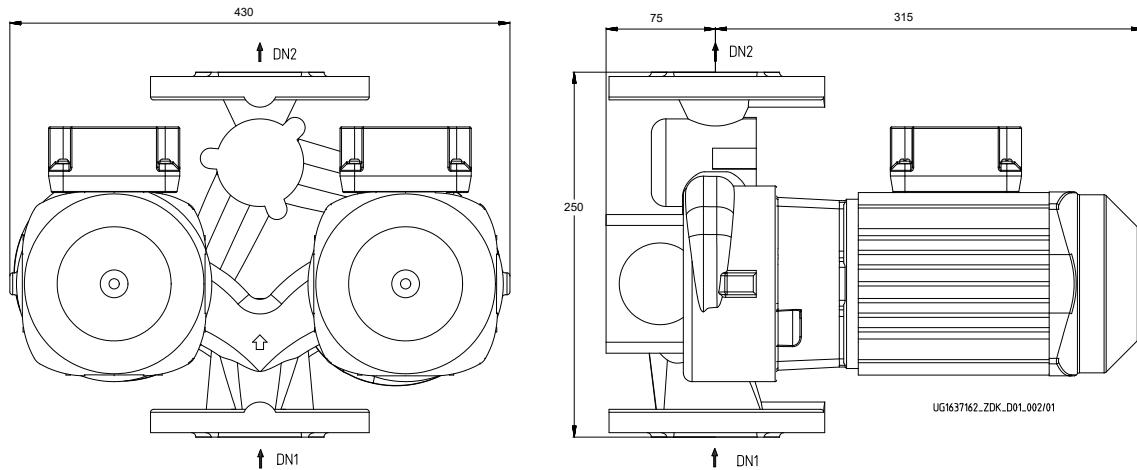
Curve data

Speed of rotation	2865 rpm	Requested developed head	9.00 m
Fluid density	998 kg/m³	Efficiency	45.4 %
Viscosity	1.00 mm²/s	MEI (Minimum Efficiency Index)	= 0.70
Flow rate	10.03 m³/h	Power absorbed	0.54 kW
Requested flow rate	10.00 m³/h	Curve number	K1161.452/77098
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.

Connection plan

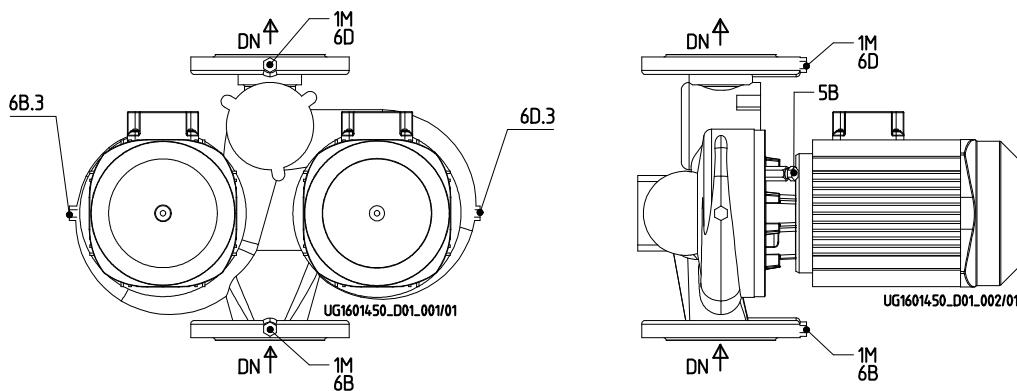


Page: 5 / 5

ETLD040-040-100 GGSAV11D400752M AATB

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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.
6D.3 Pumped medium - filling / venting	G 1/8	Drilled and plugged.
5B venting		Closed with venting plug
6B Pumped liquid drain	G 1/4	Drilled and plugged.
6B.3 Pumped liquid drain	G 1/8	Drilled and plugged.