

ETLZ040-040-250 GGSAV66D200114 BKSBI3

Inline pump

Operating data

Requested flow rate	12.00 m ³ /h
Requested developed head	9.99 m
Pumped medium	42.2 %
	≥ 0.70
	0.80 kW
	1457 rpm
	2.07 m
	16.00 bar.g
Max. ambient air temperature	20.0 °C
Min. ambient air temperature	20.0 °C
Fluid temperature	45.0 °C
Fluid density	1.027 kg/m ³
Fluid viscosity	1.20 mm ² /s
Suction pressure max.	0.00 bar.g
Mass flow rate	3.42 kg/s
Max. power on curve	1.01 kW
Min. allow. flow for continuous stable operation	2.17 m ³ /h
Discharge press.	1.01 bar.g
Min. allow. mass flow for continuous stable operation	0.62 kg/s
Shutoff head	11.91 m
Max. allow. mass flow	6.35 kg/s
Design	Twin system one full duty + one standby pump Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

Design

Pump standard	Without	Material code	Q7Q7EGG
Design	Close coupled twin inline	Shaft seal code	66
Orientation	Vertical	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Suction nominal dia.	DN 40	Seal chamber design	Conical seal chamber (A-type cover)
Suction nominal pressure	PN 16	Contact guard	With
Suction position	180° (down)	Wear ring	Casing wear ring
Suction flange drilled according to standard	EN1092-2	Impeller diameter	189.0 mm
Discharge nominal dia.	DN 40	Free passage size	7.1 mm
Discharge nominal pressure	PN 16	Direction of rotation from drive	Clockwise
Discharge position	top (0°/360°)	Bearing bracket construction	Close-coupled
Discharge flange drilled according to standard	EN1092-2	Bearing bracket size	25
Surface type	Flat face	Bearing type	Anti-friction bearings
Shaft seal	Single acting mechanical seal	Lubrication type	Grease
Manufacturer	Burgmann	Color	Vermilion (RAL 2002)
Type	MG13G6		

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Driver, accessories

Driver type	Electric motor	Motor enclosure	IP55
Drive standard mech.	IEC	Cos phi at 4/4 load	0.83
Model (make)	KSB-Motor	Motor efficiency at 4/4 load	84.1 %
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Temperature sensor	3 PTC resistors
Motor const. type	V1	Terminal box position	0° same orientation
Motor size	90S		Viewed from the drive
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	Motor winding	230 / 400 V
Motor speed	1457 rpm	Number of poles	4
Frequency	50 Hz	Connection mode	Star
Rated voltage	400 V	Motor cooling method	Surface cooling
Rated power P2	1.10 kW	Motor material	Aluminium
Available reserve	38.31 %	Frequency inverter operation allowed	FI allowed
Rated current	2.6 A	Motor data can vary from type plate information. Motor data describes KSB's choice functional specification and is used for pump selection.	
Starting current ratio	8	CE-approval	Yes
Insulation class	F to IEC 34-1	Condensat drain motor	Yes

Materials G

Volute casing (102)	Grey cast iron EN-GJL-250/A48CL35B	Casing wear ring (502.2)	Grey cast iron GG/CAST IRON
Casing cover (161)	Grey cast iron EN-GJL-250/A48CL35B	Disc (550)	Steel ST
Shaft (210)	Tempered steel C45+N	Stud (902)	Steel 8.8
Impeller (230)	Grey cast iron EN-GJL-250/A48CL35B	Nut (920)	8+A2A/ 8+B633 SC1 TP3
Motor stool (341)	Grey cast iron EN-GJL-250/A48CL35B	Impeller nut (922)	Steel 8
Flat gasket (400)	DPAF seal plate asbestos free	Key (940)	Steel C45+C / A311 GR 1045
Joint ring (411)	Steel ST	Pipe line (700)	CLASS A
Casing wear ring (502.1)	Grey cast iron GG/CAST IRON		Steel ST

FOOT 85X 50X 60

3 pump feet with bolts for vertical installation
 Pump foot for vertical installation
 Etaline(Z) 32-160/ up to 100-160/

Pump foot, not for Etaline SY
 Weight : 2,0 kg

Material no

47077960

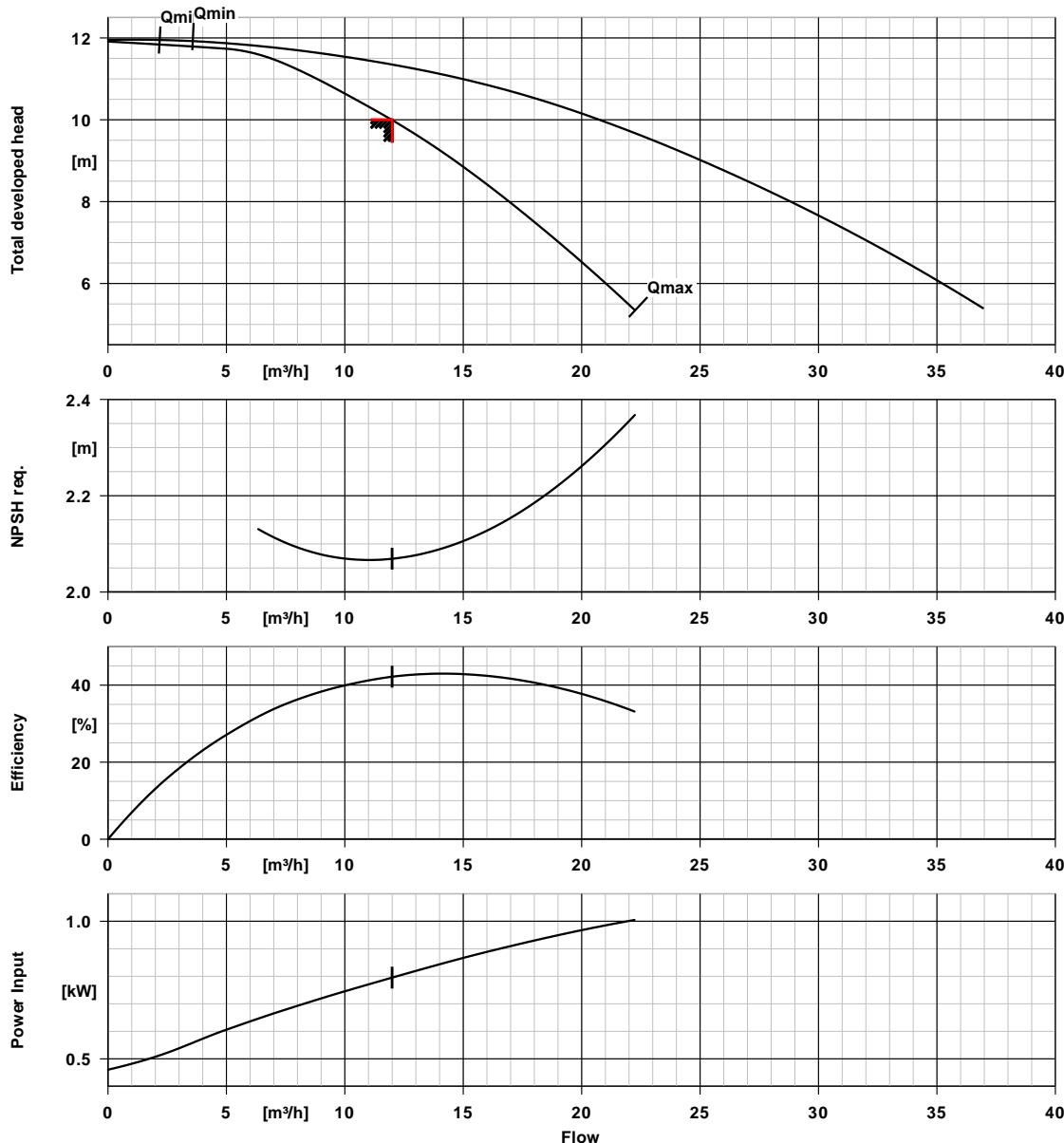
Performance curve



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Inline pump



Curve data

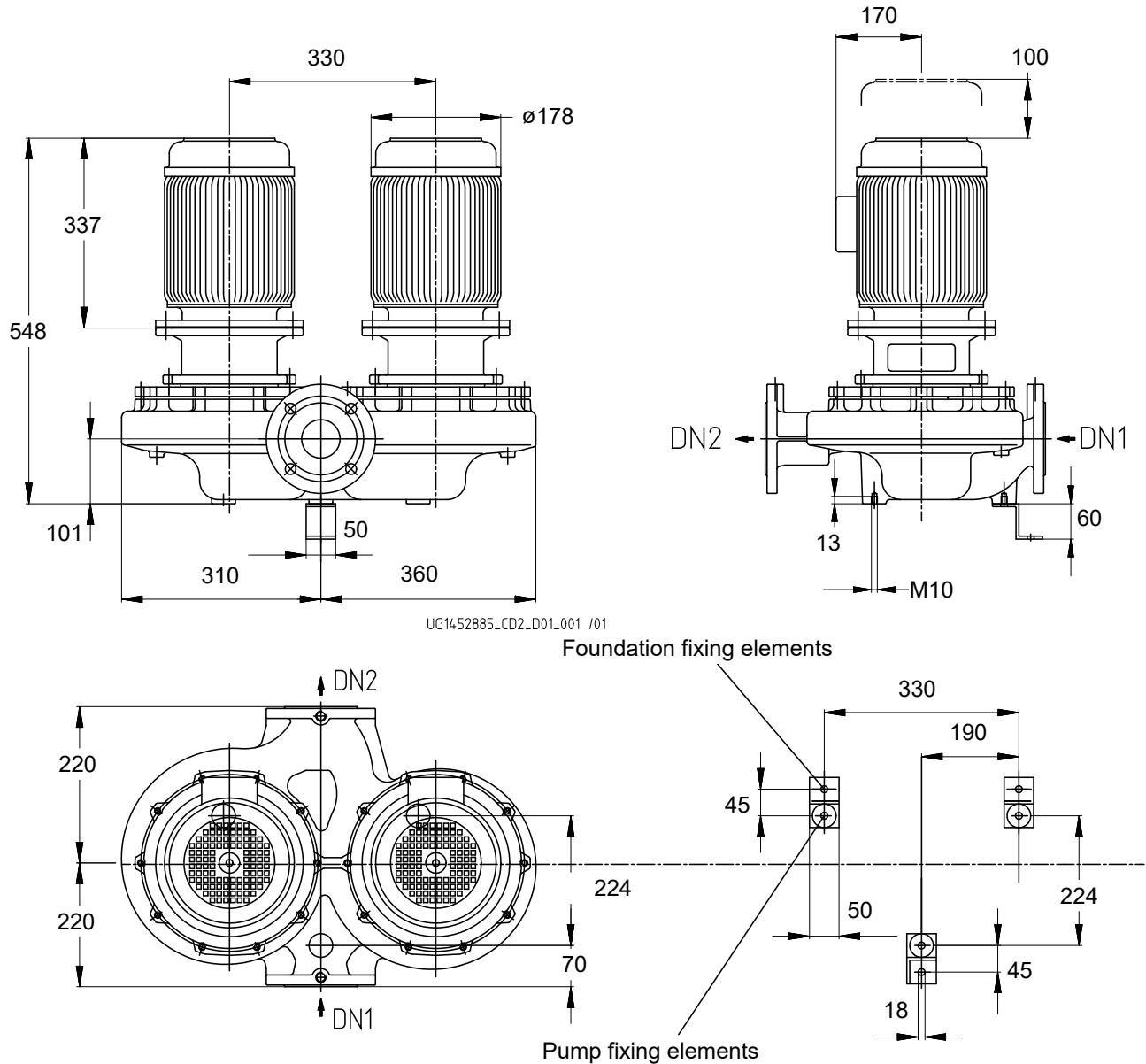
Speed of rotation	1457 rpm	Efficiency	42.2 %
Fluid density	1027 kg/m^3	MEI (Minimum Efficiency Index)	≥ 0.70
Viscosity	1.20 mm^2/s	Power absorbed	0.80 kW
Flow rate	12.00 m^3/h	NPSH required	2.07 m
Requested flow rate	12.00 m^3/h	Curve number	K1161.454/24
Total developed head	9.99 m	Effective impeller diameter	189.0 mm
Requested developed head	10.00 m	Acceptance standard	Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

Installation plan



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Inline pump



Drawing is not to scale

Dimensions in mm

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Motor

Motor manufacturer	KSB-Motor
Motor size	90S
Motor power	1.10 kW
Number of poles	4
Speed of rotation	1457 rpm
Position of terminal box	0° same orientation 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 16
Rated pressure disch.	PN 16

Weight net

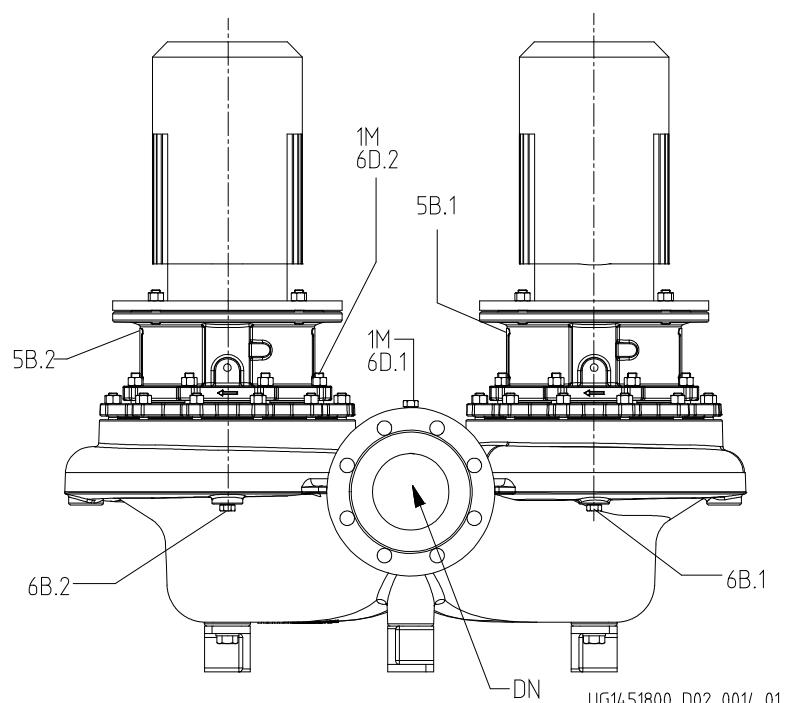
Pump	96 kg
Motor	46 kg
Other accessories	2 kg
Total	144 kg

Connect pipes without stress or strain!

For auxiliary connections see
separate drawing.

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Connections

Pump casing variant

XX46

1M.1 Pressure gauge connection

Not executed

1M.2 Pressure gauge connection

Not executed

6B.1 Pumped liquid drain

Drilled and plugged.

6B.2 Pumped liquid drain

Drilled and plugged.

6D.1 Pumped medium - filling/venting

Drilled and plugged.

6D.2 Pumped medium - filling / venting

Drilled and plugged.

5B.1 venting

Closed with venting plug

5B.2 venting

Closed with venting plug