

ETL 032-032-160 GGSBV11D200074 BKSBI3

Inline pump

Operating data

Requested flow rate	6.00 m ³ /h	Actual flow rate	6.00 m ³ /h
Requested developed head	5.00 m	Actual developed head	5.00 m
Pumped medium	Water	Efficiency	54.6 %
	Clean water	MEI (Minimum Efficiency Index)	≥ 0.70
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Power absorbed	0.15 kW
Max. ambient air temperature	20.0 °C	Pump speed of rotation	1484 rpm
Min. ambient air temperature	20.0 °C	NPSH required	1.04 m
Fluid temperature	20.0 °C	Permissible operating pressure	16.00 bar.g
Fluid density	998 kg/m ³	Discharge press.	0.49 bar.g
Fluid viscosity	1.00 mm ² /s	Shutoff head	5.68 m
Suction pressure max.	0.00 bar.g	Min. allow. flow for continuous stable operation	1.24 m ³ /h
Mass flow rate	1.66 kg/s	Min. allow. mass flow for continuous stable operation	0.34 kg/s
Max. power on curve	0.21 kW	Design	Single system 1 x 100 % Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Max. allow. mass flow	3.83 kg/s		

Design

Pump standard	Without	Material code	BQ1EGG-WA
Caution: The overall length from suction to discharge can be different to the previous generation of Etaline.			
Design	Close-coupled in-line	Shaft seal code	11
Orientation	Vertical	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Suction nominal dia.	DN 32	Aliquid free of solids is assumed	
Suction nominal pressure	PN 16	Seal chamber design	Conical seal chamber (A-type cover)
Suction position	180° (down)	Contact guard	With
Suction flange drilled according to standard	EN1092-2	Wear ring	Casing wear ring
Discharge nominal dia.	DN 32	Impeller diameter	129.0 mm
Discharge nominal pressure	PN 16	Free passage size	5.4 mm
Discharge position	top (0°/360°)	Direction of rotation from drive	Clockwise
Discharge flange drilled according to standard	EN1092-2	Silicon free pump assembly	Yes
Surface type	Raised face (form B to EN 1092)	Bearing bracket construction	Close-coupled
Shaft seal	Single acting mechanical seal	Bearing bracket size	25
Shaft seal manufacturer	KSB	Bearing type	Anti-friction bearings
Shaft seal type	1	Lubrication type	Grease
		Color	Ultramarine blue (RAL 5002) KSB-blue

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Driver, accessories

Driver type	Electric motor	Temperature sensor	1 PTC resistor
Drive standard mech.	IEC	Terminal box position	0° same orientation
Model (make)	KSB-Motor		Viewed from the drive
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Motor winding	230 / 400 V
Motor const. type	V1	Number of poles	4
Motor size	080M	Connection mode	Star
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	Motor cooling method	Surface cooling
Motor speed	1484 rpm	Motor material	Aluminium
Frequency	50 Hz	Frequency inverter operation allowed	FI allowed
Rated voltage	400 V	Motor noise pressure level	56 dBA
Rated power P2	0.75 kW	Motor data can vary from type plate information. Motor data describes KSB's choice functional specification and is used for pump selection.	
Available reserve	402.01 %	CE-approval	Yes
Rated current	1.9 A	EAC Approval	Yes
Starting current ratio	7.5	Condensat drain motor	Yes
Insulation class	F to IEC 34-1	Ambient temperature	40.0 °C
Motor enclosure	IP55	Max. absolute humidity	30 %
Cos phi at 4/4 load	0.81	Temp. sensor mtr. bearing	Without
Motor efficiency at 4/4 load	82.5 %	UKCA conformity	Yes

Materials G**Notes 1**

General criteria for a water analysis: pH-value >= 6.5; chloride content (Cl) <=250 mg/kg. Chlorine (Cl2) <=0.6 mg/kg.

Volute casing (102)	Grey cast iron EN-GJL-250/A48CL35B	Joint ring (411)	Steel ST
Casing cover (161)	Grey cast iron EN-GJL-250/A48CL35B	Casing wear ring (502.1)	Grey cast iron GG/CAST IRON
Shaft (210)	Tempered steel C45+N	Casing wear ring (502.2)	Grey cast iron GG/CAST IRON
Impeller (230)	Grey cast iron EN-GJL-250/A48CL35B	Shaft sleeve (523)	CrNiMo steel
Motor stool (341)	Grey cast iron EN-GJL-250/A48CL35B	Stud (902)	Steel 8.8
Flat gasket (400)	DPAF DW001	Impeller nut (922)	Steel 8
		Key (940)	Steel C45+C / A311 GR 1045 CLASS A

Packaging

Packaging category	A0 Packing acc. to KSB choice	Packaging for transport	Truck
Packaging for storage	Indoor		

Nameplates

Nameplates language	International
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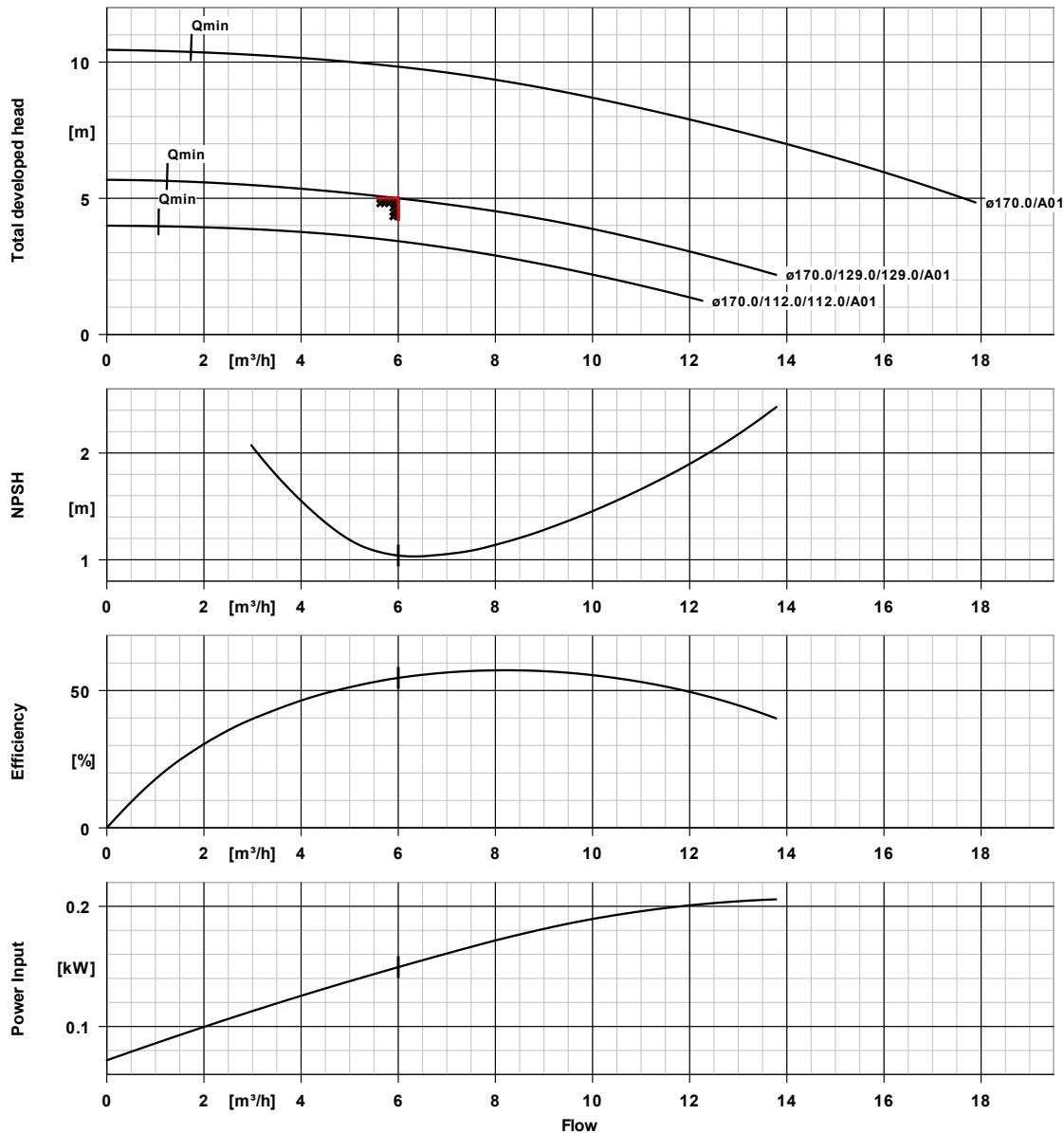
Performance curve



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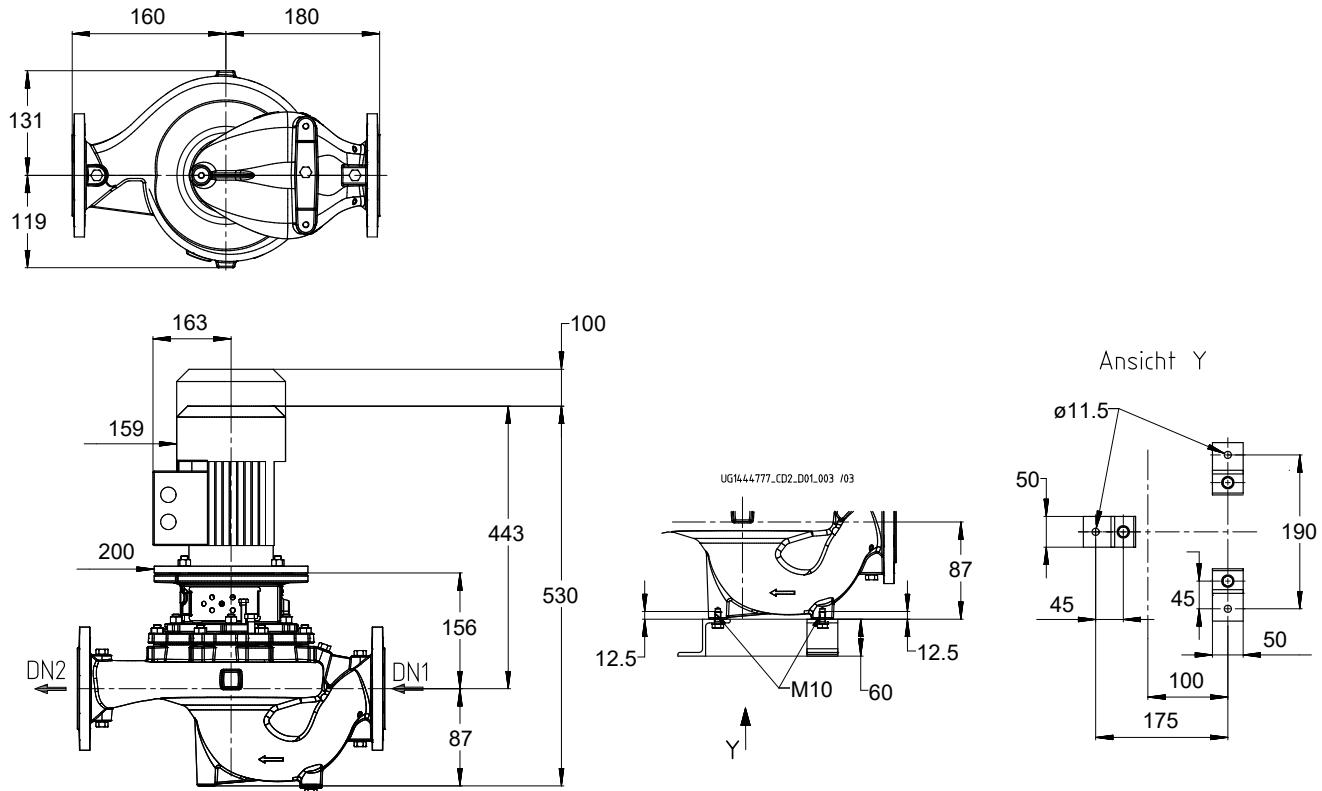
Inline pump



Curve data

Speed of rotation	1484 rpm	Efficiency	54.6 %
Fluid density	998 kg/m^3	MEI (Minimum Efficiency Index)	≥ 0.70
Viscosity	1.00 mm^2/s	Power absorbed	0.15 kW
Flow rate	6.00 m^3/h	NPSHR	1.04 m
Requested flow rate	6.00 m^3/h	Curve number	K1159.454/18
Total developed head	5.00 m	Effective impeller diameter	129.0 mm
Requested developed head	5.00 m	Acceptance standard	Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

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Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	KSB-Motor
Motor size	080M
Motor power	0.75 kW
Number of poles	4
Speed of rotation	1484 rpm
Position of terminal box	0° same orientation Viewed from the drive

Connections

Suction nominal size DN1	DN 32 / EN1092-2
Discharge nominal size DN2	DN 32 / EN1092-2
Nominal pressure suct.	PN 16
Rated pressure disch.	PN 16

Weight net

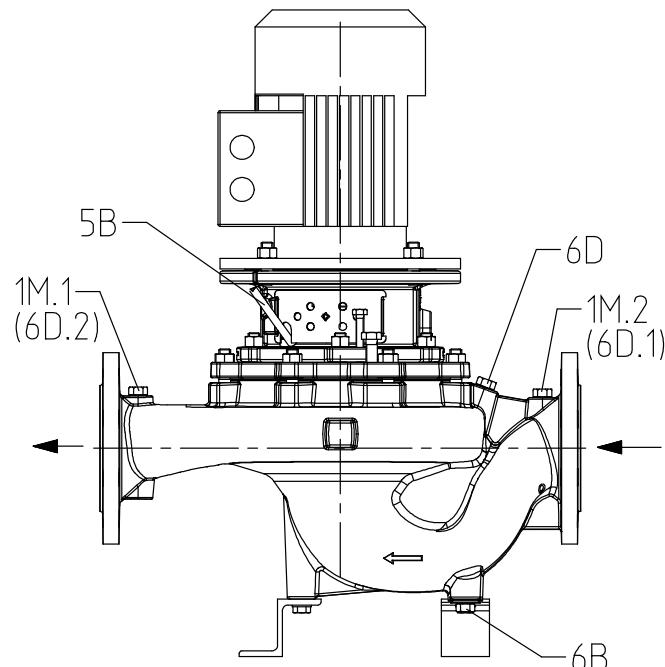
Pump	20 kg
Motor	15 kg
Total	35 kg

Connect pipes without stress or strain!

For auxiliary connections see
separate drawing.

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UG1444722_D01_003/ 02

Connections

Pump casing variant	XX46
1M.1 Pressure gauge connection	G 1/4
1M.2 Pressure gauge connection	G 1/4
6B Pumped liquid drain	G 1/4
6D Pumped medium - filling / venting	G 1/4
5B venting	G 1/4

XX46

Drilled and plugged.

Drilled and plugged.

Drilled and plugged.

Drilled and plugged.

Closed with venting plug