



ETLY032-032-160 SGSD08D200074 BKSBIE3

Inline pump

Operating data Point no. 1 (Defining)

Requested flow rate	3.00 m³/h	Actual flow rate	3.00 m³/h
Requested developed head	8.10 m	Actual developed head	8.10 m
Pumped medium	+ Fragol HT 250	Efficiency	37.3 %
	+	Power absorbed	0.12 kW
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Pump speed of rotation	1487 rpm
		NPSH required	2.06 m
Max. ambient air temperature	20.0 °C	Permissible operating pressure	13.68 bar.g
Min. ambient air temperature	20.0 °C	Discharge press.	0.53 bar.g
Fluid temperature	260.0 °C		
Fluid density	664 kg/m³	Shutoff head	8.26 m
Fluid viscosity	0.55 mm²/s	Min. allow. flow for continuous stable operation	1.50 m³/h
Suction pressure max.	0.00 bar.g	Min. allow. mass flow for continuous stable operation	0.28 kg/s
Mass flow rate	0.55 kg/s	Design	Single system 1 x 100 % Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Max. power on curve	0.24 kW		
Max. allow. mass flow	2.97 kg/s		

Point no. 2

Requested flow rate	3.00 m³/h	Actual flow rate	2.99 m³/h
Requested developed head	8.10 m	Actual developed head	8.07 m
Max. ambient air temperature	20.0 °C	Efficiency	37.3 %
Min. ambient air temperature	20.0 °C	Power absorbed	0.15 kW
Fluid temperature	20.0 °C	Pump speed of rotation	1487 rpm
Fluid density	830 kg/m³	NPSH required	2.05 m
Fluid viscosity	14.00 mm²/s	Permissible operating pressure	13.68 bar.g
Suction pressure max.	0.00 bar.g	Discharge press.	0.66 bar.g
Mass flow rate	0.69 kg/s	Shutoff head	8.24 m
Max. power on curve	0.30 kW	Min. allow. flow for continuous stable operation	1.50 m³/h
Max. allow. mass flow	3.71 kg/s	Min. allow. mass flow for continuous stable operation	0.34 kg/s
Design	Single system 1 x 100 %		

ETLY032-032-160 SGSD08D200074 BKSBI3

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Design

Pump standard	Without	Material code	AQ1V7GG
Caution: The overall length from suction to discharge can be different to the previous generation of Etaline.		Shaft seal code	8
Design	Close-coupled in-line	Sealing plan	BS Dead-end with air cooling
Orientation	Horizontal	Seal chamber design	Standard seal chamber
Suction nominal dia.	DN 32	Contact guard	With
Suction nominal pressure	PN 16	Wear ring	Casing wear ring
Suction position	180° (down)	Impeller diameter	153.0 mm
Suction flange drilled according to standard	EN1092-2	Free passage size	5.4 mm
Discharge nominal dia.	DN 32	Direction of rotation from drive	Clockwise
Discharge nominal pressure	PN 16	Silicon free pump assembly	Yes
Discharge position	top (0°/360°)	Bearing bracket construction	Close-coupled
Discharge flange drilled according to standard	EN1092-2	Bearing bracket size	25
Surface type	Raised face (form B to EN 1092)	Bearing type	Plain bearings
Shaft seal	Single acting mechanical seal	Lubrication type	Medium lubricated
Shaft seal manufacturer	KSB	Color	White aluminium (similar RAL 9006)
Shaft seal type	4EYS		

Driver, accessories

Driver type	Electric motor	Temperature sensor	1 PTC resistor
Drive standard mech.	IEC	Terminal box position	0°/360° (top)
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	1487 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	410.81 %	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



ETLY032-032-160 SGSD08D200074 BKSBE3

Inline pump

Materials SYT

Volute casing (102)	Spheroidal graphite cast iron EN-GJS-400-15 / ASTM A536 gr.60.40.18	Flat gasket (400) Joint ring (411)	BU 9593/HDR Steel ST
Casing cover (161)	Spheroidal graphite cast iron EN-GJS-400-15 / ASTM A536 gr.60.40.18	Casing wear ring (502.1) Casing wear ring (502.2)	Grey cast iron GG/CAST IRON Grey cast iron GG/CAST IRON
Shaft (210)	Chrome steel 1.4021+QT800	Stud (902)	Steel 8.8
Impeller (230)	Grey cast iron EN-GJL- 250/A48CL35B	Impeller nut (922)	Steel 8
Plain bearing (310)	Carbon KHK	Key (940)	Steel C45+C / A311 GR 1045 CLASS A
Motor stool (341)	Grey cast iron EN-GJL- 250/A48CL35B		
Bearing housing (350)	Spheroidal graphite cast iron EN-GJS-400-15 / ASTM A536 gr.60.40.18		

Packaging

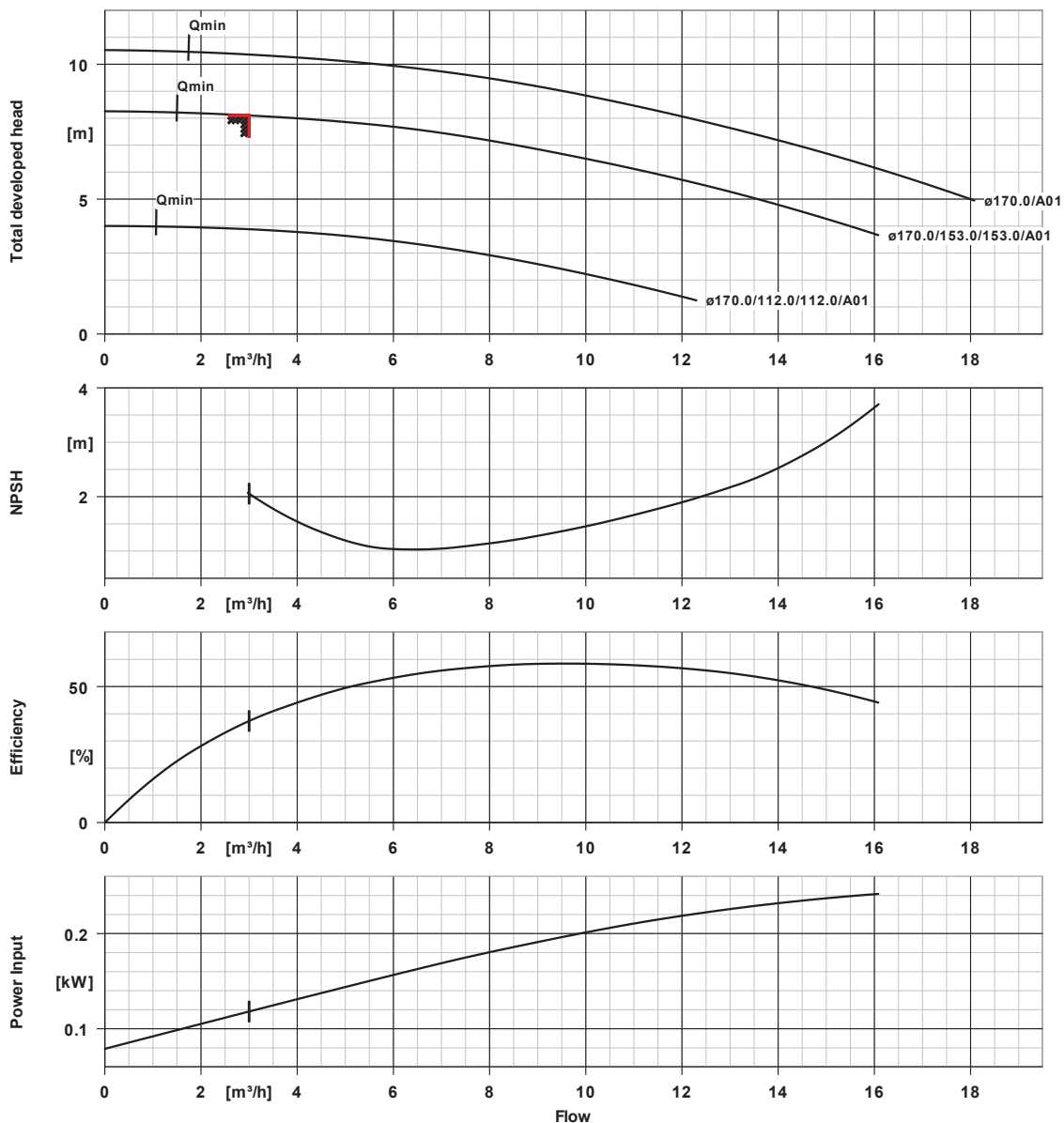
Packaging category	A0 Packing acc. to KSB choice	Packaging for transport	Truck
Packaging for storage	Indoor	Packaging for country	Poland

Nameplates

Nameplates language	International
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ETLY032-032-160 SGSD08D200074 BKSBI3

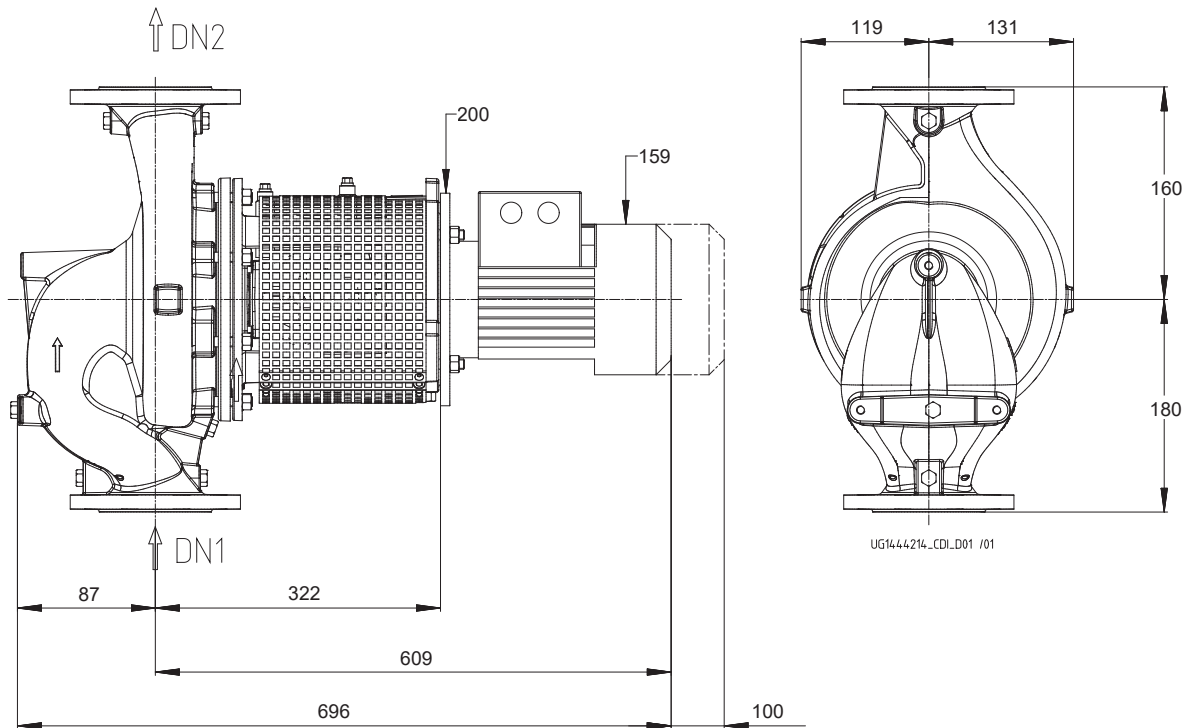
Inline pump



Curve data

Speed of rotation	1487 rpm	Efficiency	37.3 %
Fluid density	664 kg/m ³	Power absorbed	0.12 kW
Viscosity	0.55 mm ² /s	NPSHR	2.06 m
Flow rate	3.00 m ³ /h	Curve number	K1159.454/18
Requested flow rate	3.00 m ³ /h	Effective impeller diameter	153.0 mm
Total developed head	8.10 m	Acceptance standard	Tolerances to ISO 9906
Requested developed head	8.10 m		Class 3B; below 10 kW
			acc. to paragraph 4.4.2

ETLY032-032-160 SGSDB08D200074 BKSBI E3
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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	1487 rpm
Position of terminal box	0°/360° (top) 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

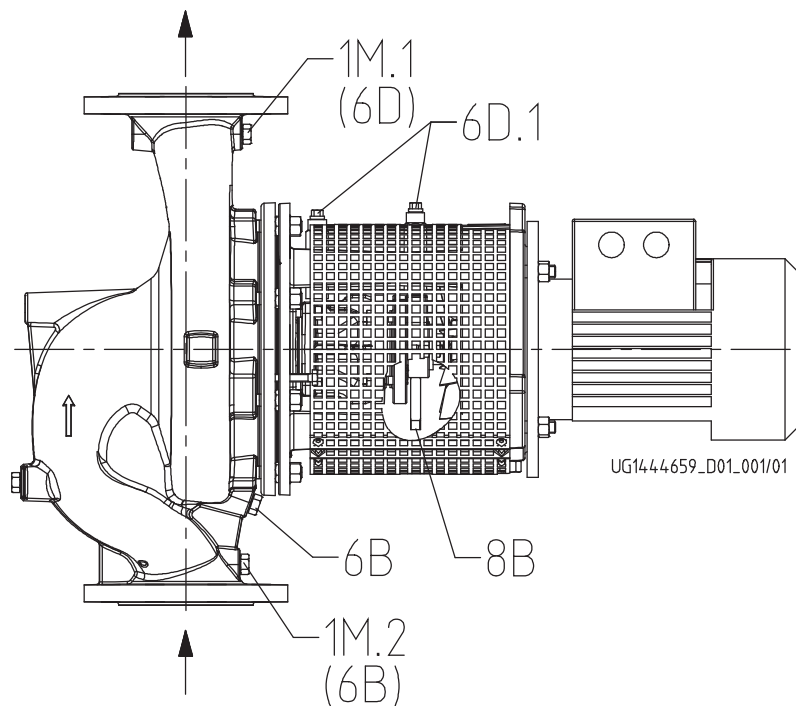
Weight net

Pump	26 kg
Motor	15 kg
Total	41 kg

Connect pipes without stress or strain!

For auxiliary connections see separate drawing.

ETLY032-032-160 SGSDB08D200074 BKSBI E3
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Connections

Pump casing variant

1M.1 Pressure gauge connection	G 1/4	XX46	Drilled and plugged.
1M.2 Pressure gauge connection	G 1/4		Drilled and plugged.
6B Pumped liquid drain	G 1/4		Drilled and plugged.
6D.1 Pumped medium - filling/venting	G 1/4		Drilled and plugged.
8B Leakage drain	G 1/8		Drilled