



ETL 032-032-160 GGS AV06D200054 BSIEIE1

Inline pump

Operating data

Requested flow rate		Actual flow rate	7.99 m ³ /h
Operating data determined for maximum inlet pressure		Actual developed head	3.99 m
Requested developed head		Efficiency	57.0 %
Pumped medium	Water, high-temperature hot water High-temperature hot water treated to VdTÜV 1466 Not containing chemical and mechanical substances which affect the materials	MEI (Minimum Efficiency Index)	≥ 0.70
Ambient air temperature	20.0 °C	Power absorbed	0.14 kW
Fluid temperature	130.0 °C	Pump speed of rotation	1485 rpm
		NPSH required	1.14 m
		Permissible operating pressure	15.50 bar.g
Fluid density	935 kg/m ³	Discharge press.	2.99 bar.g
Fluid viscosity	0.24 mm ² /s	Min. allow. flow for continuous stable operation	1.97 m ³ /h
Suction pressure max.	2.62 bar.g	Min. allow. mass flow for continuous stable operation	0.51 kg/s
Suction pressure min.	2.62 bar.g	Shutoff head	5.11 m
NPSH available	10.00 m	Max. allow. mass flow	3.46 kg/s
Mass flow rate	2.07 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	0.17 kW		

Design

Pump standard	Without	Shaft seal code	6
Caution: The overall length from suction to discharge can be different to the previous generation of Etaline.		Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Design	Close-coupled in-line	Minimum requirements for hot water quality: treatment acc. to VdTÜV regulation TCH 1466 and solids content up to max. 5 mg/l.	
Orientation	Horizontal	Seal chamber design	Conical seal chamber (A-type cover)
Suction nominal dia.	DN 32	Contact guard	With
Suction nominal pressure	PN 16	Wear ring	Casing wear ring
Suction position	180° (down)	Impeller diameter	124.0 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
Shaft seal	Single acting mechanical seal	Bearing type	Anti-friction bearings
Manufacturer	Burgmann	Lubrication type	Grease
Type	RMG13G606	Color	Vermilion (RAL 2002)
Material code	U3BEGG		

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Driver, accessories

Driver type	Electric motor	Insulation class	F to IEC 34-1
Drive standard mech.	IEC	Motor enclosure	IP55
Model (make)	Siemens	Cos phi at 4/4 load	0.74
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Motor efficiency at 4/4 load	77.1 %
Motor const. type	V1	Temperature sensor	3 PTC resistors
Motor size	080M	Terminal box position	0°/360° (top)
Efficiency class	Efficiency class IE1 acc. to IEC60034-30-1	Motor winding	Viewed from the drive
Motor speed	1485 rpm	Number of poles	500 V
Frequency	50 Hz	Connection mode	4
Rated voltage	500 V	Motor cooling method	Star
Rated power P2	0.55 kW	Motor material	Surface cooling
Available reserve	286.45 %	Frequency inverter operation allowed	Aluminium
Rated current	1.1 A	Motor noise pressure level	FI allowed
Starting current ratio	5.3		55 dBA

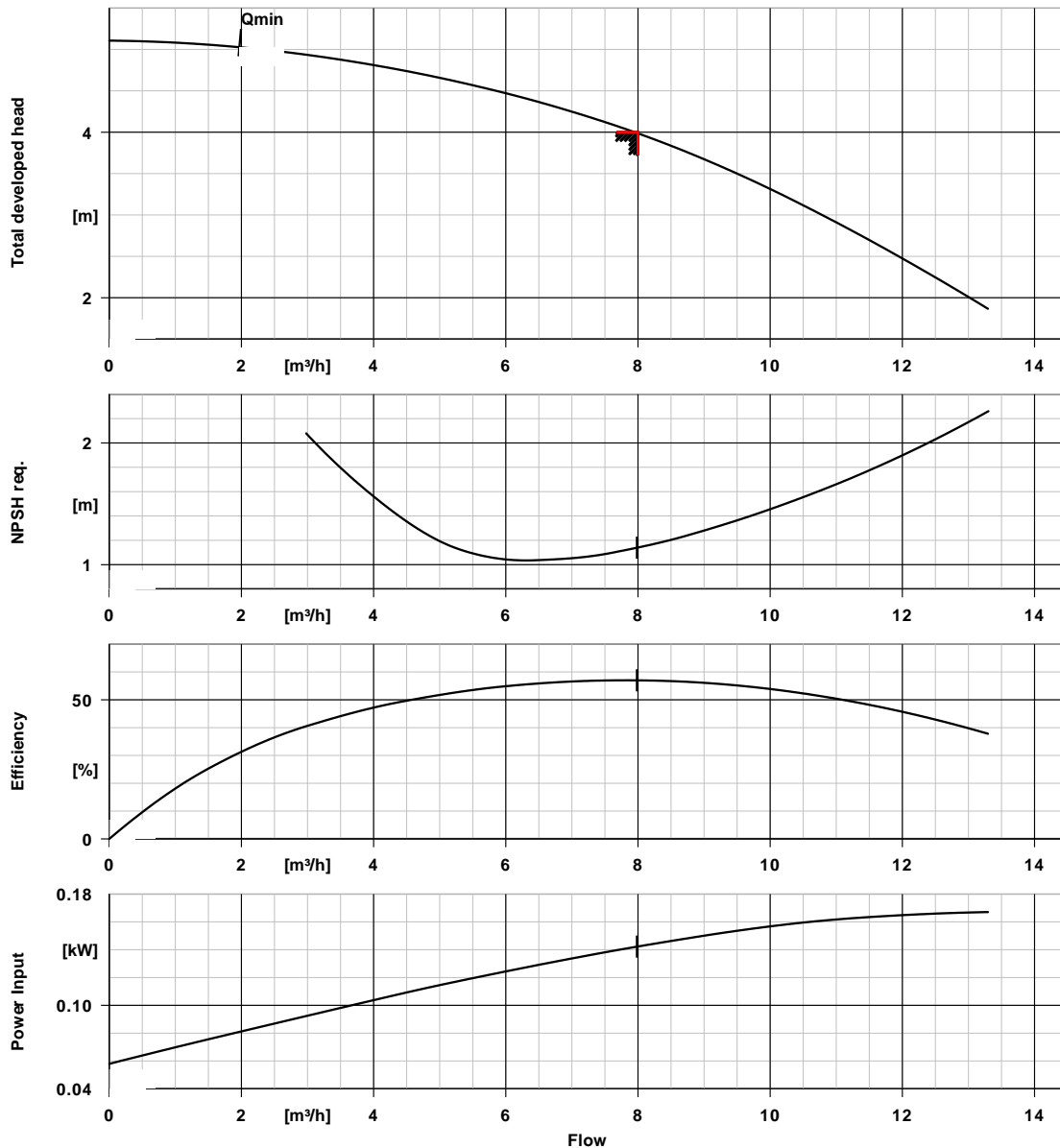
Materials G

Notes 1

Unalloyed cast iron components: pH = 9 to 10.5 and O2 content <= 0.02 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 seal plate asbestos free	Impeller nut (922)	Steel 8
		Key (940)	Steel C45+C / A311 GR 1045 CLASS A

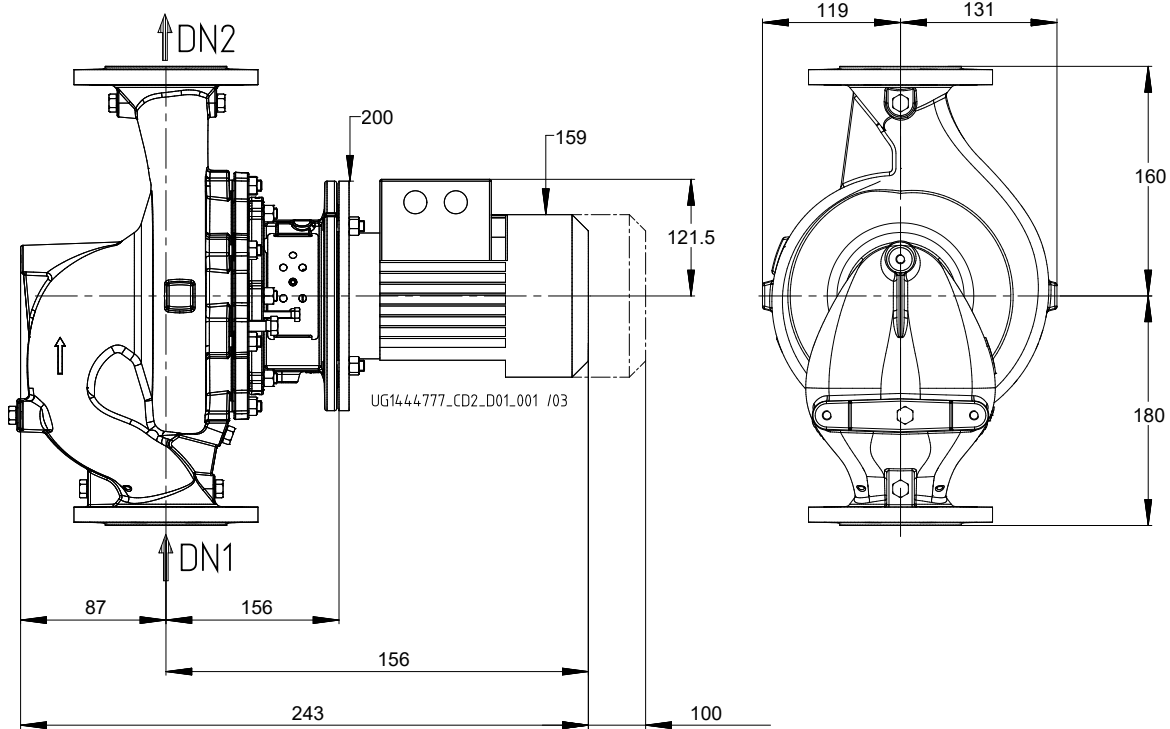
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Curve data

Speed of rotation	1485 rpm	Efficiency	57.0 %
Fluid density	935 kg/m ³	MEI (Minimum Efficiency Index)	≥ 0.70
Viscosity	0.24 mm ² /s	Power absorbed	0.14 kW
Flow rate	7.99 m ³ /h	NPSH required	1.14 m
Requested flow rate	8.00 m ³ /h	Curve number	K1159.454/18
Total developed head	3.99 m	Effective impeller diameter	124.0 mm
Requested developed head	4.00 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	Siemens
Motor size	080M
Motor power	0.55 kW
Number of poles	4
Speed of rotation	1485 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

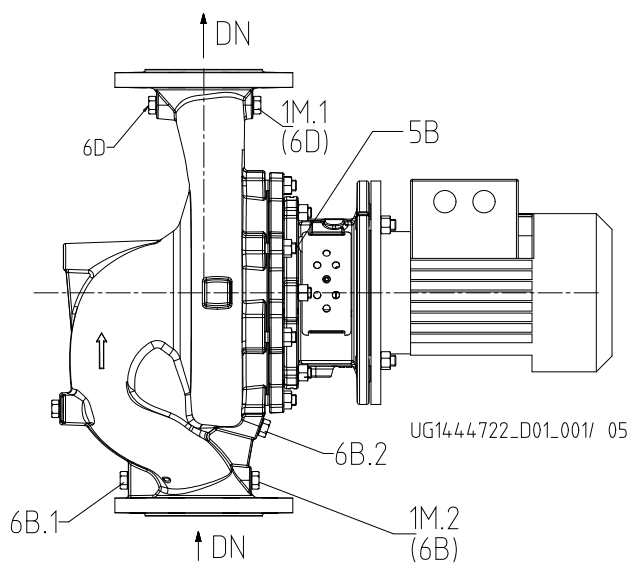
Pump	20 kg
Motor	9 kg
Total	29 kg

Connect pipes without stress or strain!

For auxiliary connections see separate drawing.

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Connections

Pump casing variant

1M.1 Pressure gauge connection

1M.2 Pressure gauge connection

6B.1 Pumped liquid drain

6B.2 Pumped liquid drain

6D Pumped medium - filling / venting

5B venting

G 1/4

G 1/4

G 1/4

G 1/4

G 1/4

G 1/4

XX46

Drilled and plugged.

Drilled and plugged.

Not executed

Drilled and plugged.

Not executed

Drilled and plugged.