

ETLZ032-032-200 GGS AV66D200074 BKS BIE3

Inline pump

Operating data

Requested flow rate		Actual flow rate	7.70 m ³ /h
Requested developed head		Actual developed head	10.00 m
Pumped medium	Antifreeze on ethylene glycol base, inhibited, closed system, e.g. Antifrogen N or similar products	Efficiency	41.0 %
	Concentration 30%	MEI (Minimum Efficiency Index)	≥ 0.70
	Not containing chemical and mechanical substances which affect the materials	Power absorbed	0.54 kW
Ambient air temperature	20.0 °C	Pump speed of rotation	1448 rpm
Fluid temperature	4.0 °C	NPSH required	1.76 m
Fluid density	1046 kg/m ³	Permissible operating pressure	16.00 bar.g
Fluid viscosity	3.79 mm ² /s	Discharge press.	1.03 bar.g
Suction pressure max.	0.00 bar.g	Min. allow. mass flow for continuous stable operation	0.38 kg/s
Mass flow rate	2.24 kg/s	Max. allow. mass flow	4.52 kg/s
Max. power on curve	0.69 kW	Design	Twin system one full duty + one standby pump
Min. allow. flow for continuous stable operation	1.32 m ³ /h		Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Shutoff head	12.03 m		

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 32	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 32	Free passage size	5.3 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
Shaft seal	Single acting mechanical seal	Bearing type	Anti-friction bearings
Manufacturer	Burgmann	Lubrication type	Grease
Type	MG13G6	Color	Vermilion (RAL 2002)

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Driver, accessories

Driver type	Electric motor	Motor enclosure	IP55
Drive standard mech.	IEC	Cos phi at 4/4 load	0.81
Model (make)	KSB-Motor	Motor efficiency at 4/4 load	82.5 %
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Temperature sensor	3 PTC resistors
		Terminal box position	0° same orientation
Motor const. type	V1		Viewed from the drive
Motor size	080M	Motor winding	230 / 400 V
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	Number of poles	4
		Connection mode	Star
Motor speed	1449 rpm	Motor cooling method	Surface cooling
Frequency	50 Hz	Motor material	Aluminium
Rated voltage	400 V	Frequency inverter operation allowed	FI allowed
Rated power P2	0.75 kW		
Available reserve	40.00 %	Motor noise pressure level	56 dBa
Rated current	1.9 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	7.5		
Insulation class	F to IEC 34-1		

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 CLASS A
Joint ring (411)	Steel ST	Pipe line (700)	Steel ST
Casing wear ring (502.1)	Grey cast iron GG/CAST IRON		

FOOT 85X 50X 60

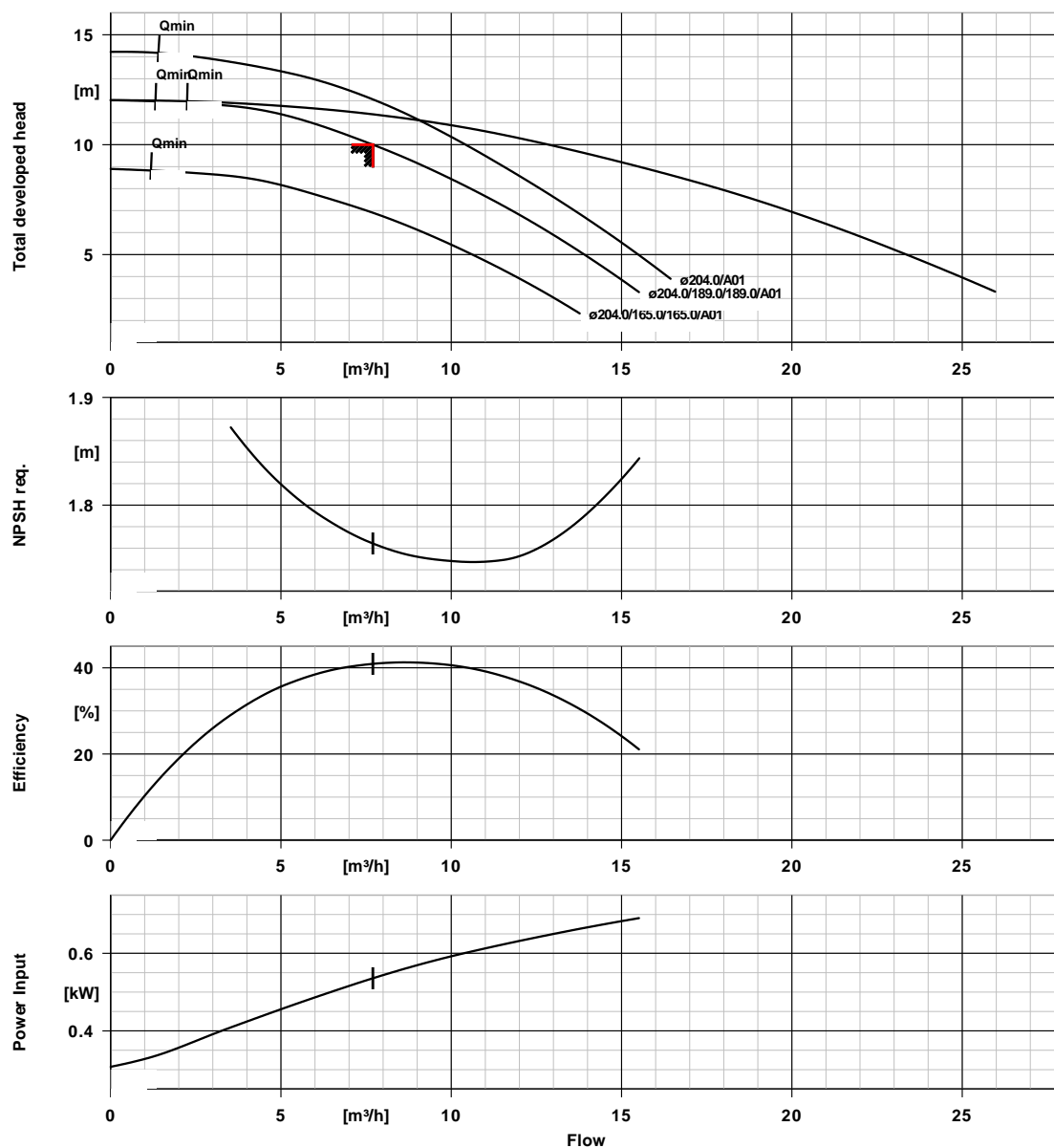
3 pump feet with bolts for vertical installation
 Pump foot for vertical installation
 Etaline(Z) 32-160/ up to 100-160/

Material no 47077960

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

ETLZ032-032-200 GGS AV66D200074 BKS BIE3

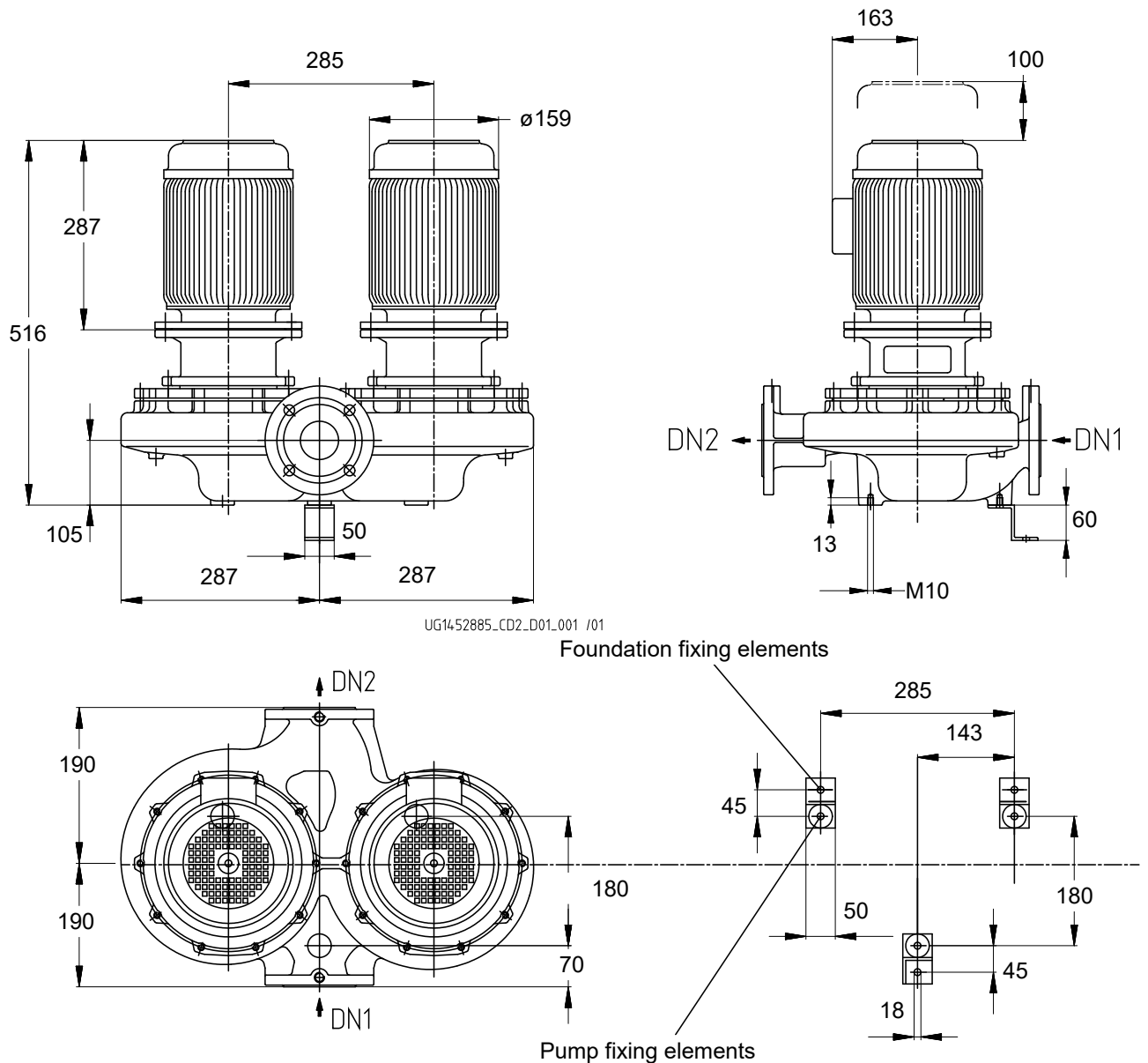
Inline pump

**Curve data**

Speed of rotation	1448 rpm	Efficiency	41.0 %
Fluid density	1046 kg/m^3	MEI (Minimum Efficiency Index)	≥ 0.70
Viscosity	3.79 mm^2/s	Power absorbed	0.54 kW
Flow rate	7.70 m^3/h	NPSH required	1.76 m
Requested flow rate	7.70 m^3/h	Curve number	K1161.454/19
Total developed head	10.00 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

ETLZ032-032-200 GGS AV66D200074 BKSBIE3

Inline pump



Drawing is not to scale

Dimensions in mm

ETLZ032-032-200 GGS AV66D200074 BKSBIE3

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Motor

Motor manufacturer	KSB-Motor
Motor size	080M
Motor power	0.75 kW
Number of poles	4
Speed of rotation	1449 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

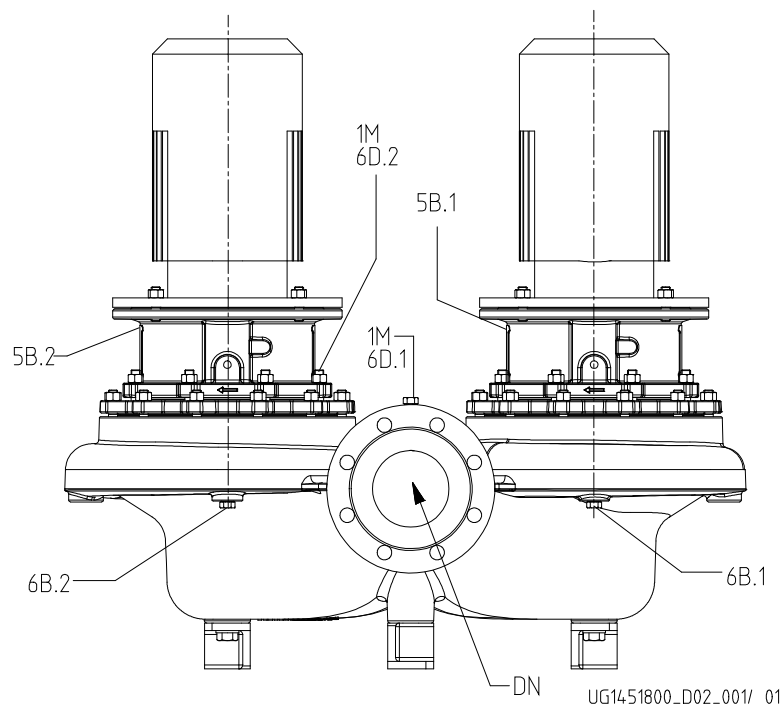
Pump	77 kg
Motor	30 kg
Other accessories	2 kg
Total	108 kg

Connect pipes without stress or strain!

**For auxiliary connections see
separate drawing.**

ETLZ032-032-200 GGS AV66D200074 BKS BIE3

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UG1451800_D02_001/ 01

Connections

Pump casing variant

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

XX46

Not executed
Not executed
Drilled and plugged.
Drilled and plugged.
Drilled and plugged.
Drilled and plugged.
Closed with venting plug
Closed with venting plug