

Heating

Air-conditioning / Refrigeration

Service water

100
YEARS SINCE 1919



Valid from 01/2019 - EX

High efficiency Circulation Pumps

More than pumps



Biral – With all our heart



Biral Vision

Four core thoughts determine the way we think and act:

We are the leading supplier of innovative and efficient pump solutions.

Technical competence, proximity to the customer and flexibility in solving special customer concerns create perceptible customer benefits.

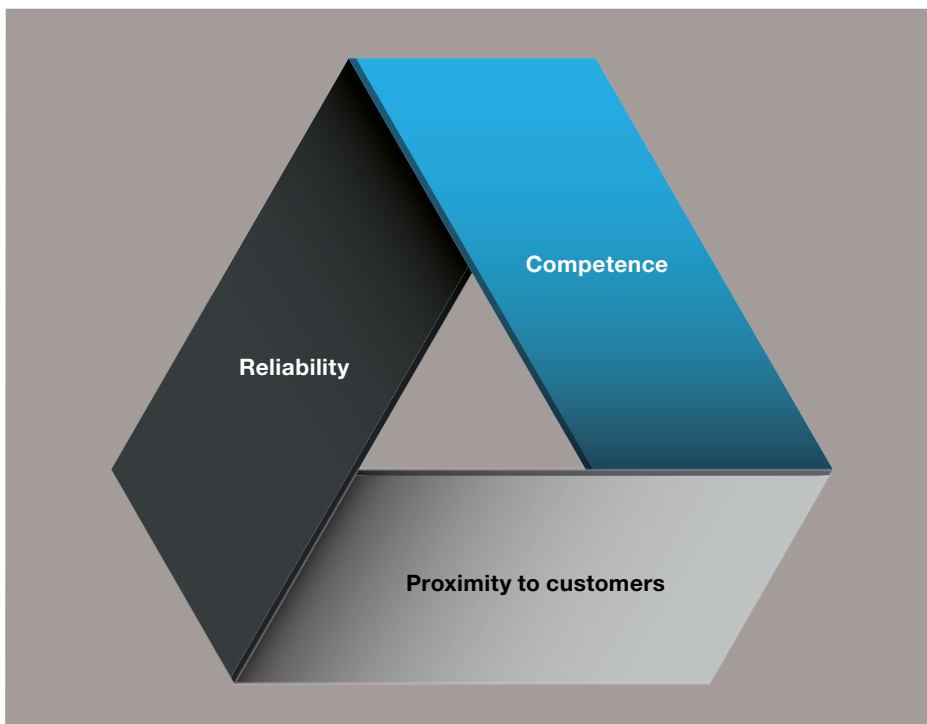
We constantly maintain a respectful and trustworthy partnership with our customers and partners to achieve this.

Our work fills us with pride and is the incentive to consistently pursue this level of reliability and durability.

We build upon competent employees, who put all their energy and passion into Biral.



Biral – your leading partner for innovative and efficient pump solutions



More than pumps

Where vision, values and responsibility become palpable to you.

Competence

- Competent consultation as required
- Biral campus – the new Swiss pump competence centre

Reliability

- Innovative products of the highest quality
- A full range for all areas of use
- Logistics that respond without delay

Proximity to customers

- Virtual planning support
- User-friendly documentation and data sources

General information

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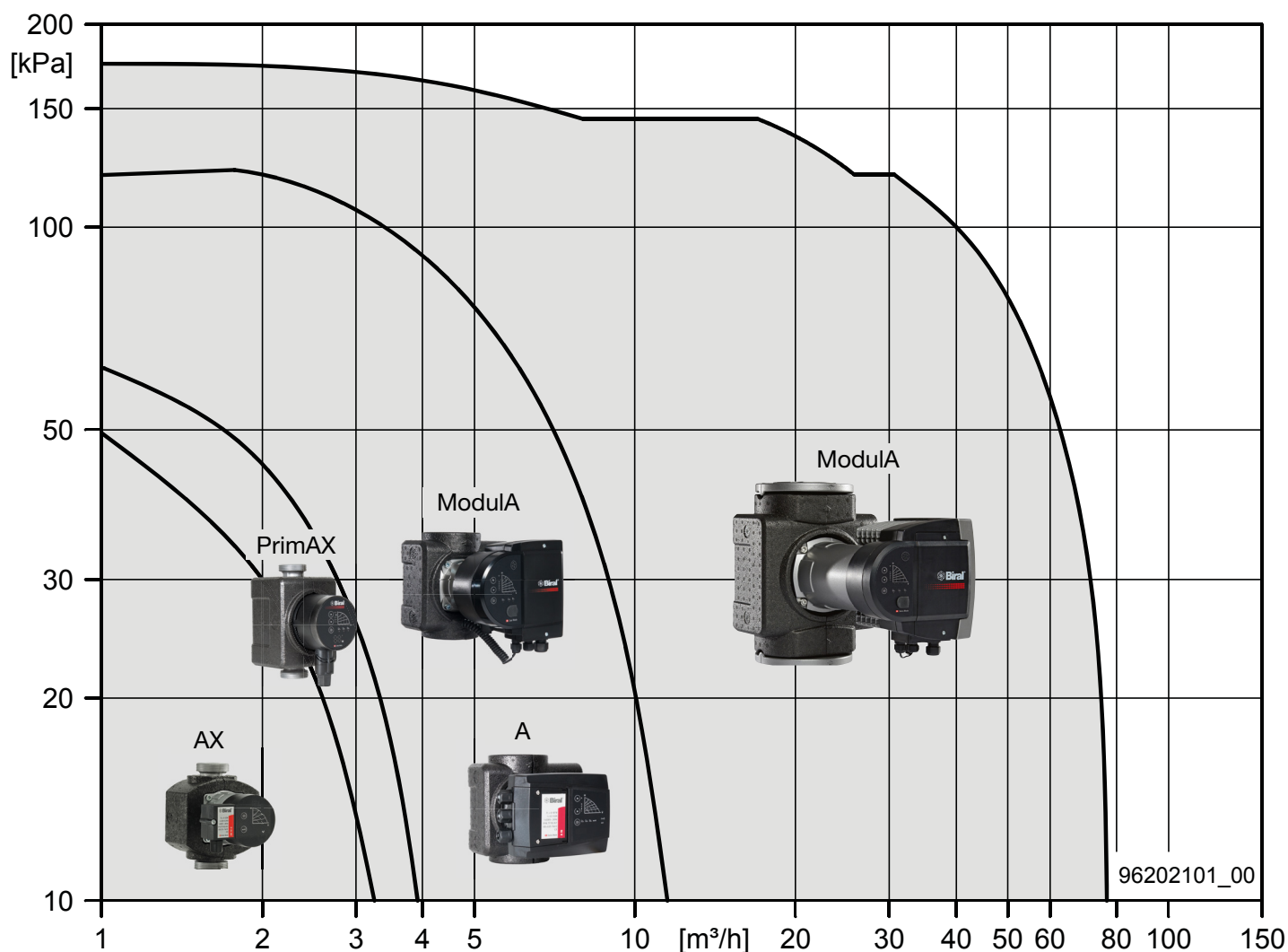
Heating

Air conditioning /
refrigeration

Service water

General information

Overview of characteristics for heating circulation pumps



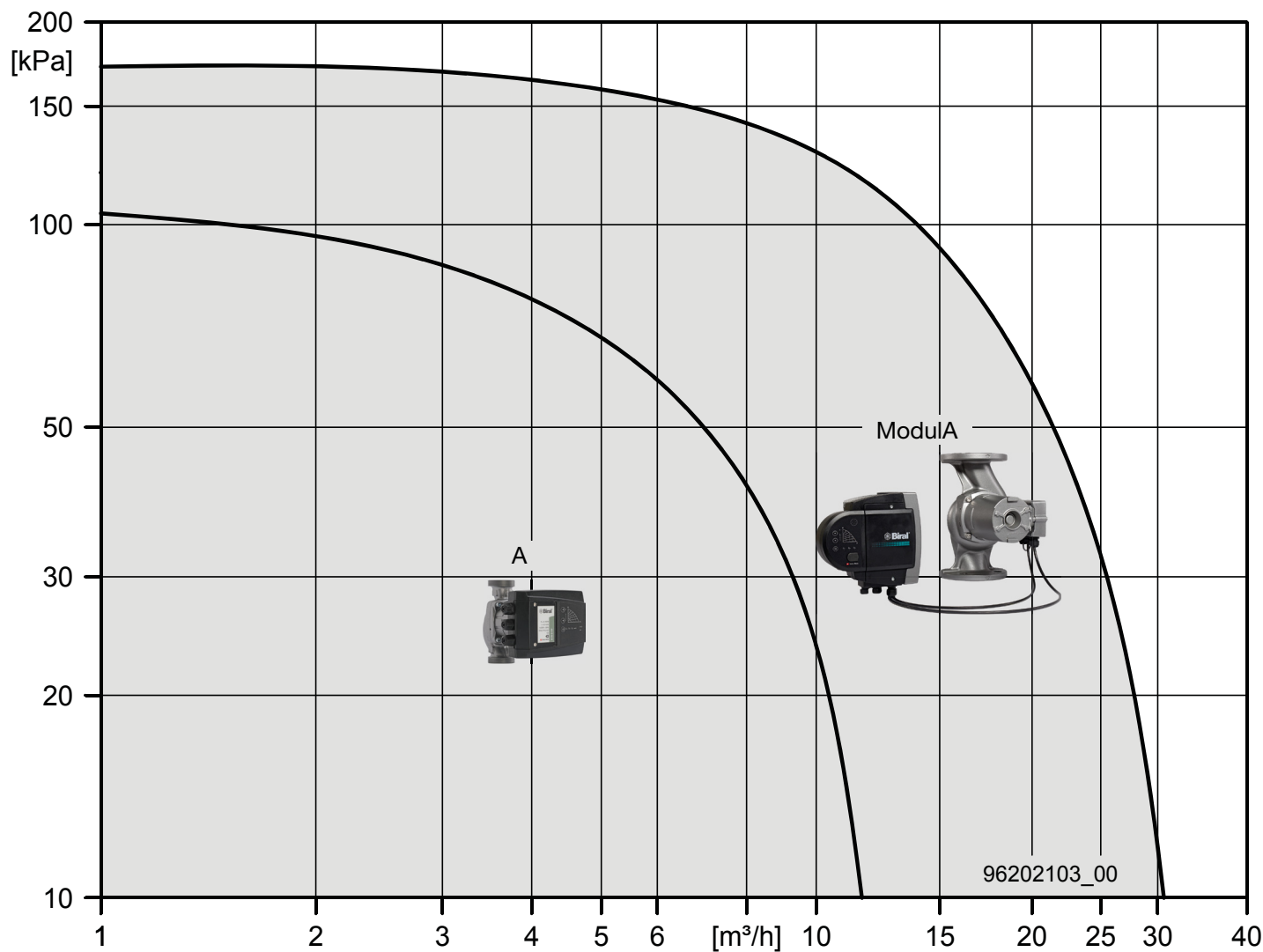
RED

Heating / ventilation

Functions	AX... RED	PrimAX... RED	A	ModulA... RED
Fluid temperature	15 – 110°C	2 – 110°C	15 - 95°C	15 – 110°C
Fault message/Operational message (switchable between)	–	–	✓	✓
External OFF or external ON (switchable between)	–	–	–	✓
Power Limit (activatable)	–	–	–	✓
Button lock	–	✓	–	✓
Flow rate indicator	–	✓	–	✓
Biral Remote Adapter (optional)	–	–	–	✓
Power limiting (deactivatable)	–	–	✓	✓
Automatic night-time reduction (activatable)	✓	–	–	–
BIM Biral Interface Modules	–	–	✓	✓

General information

Overview of characteristics for cold water circulation pumps



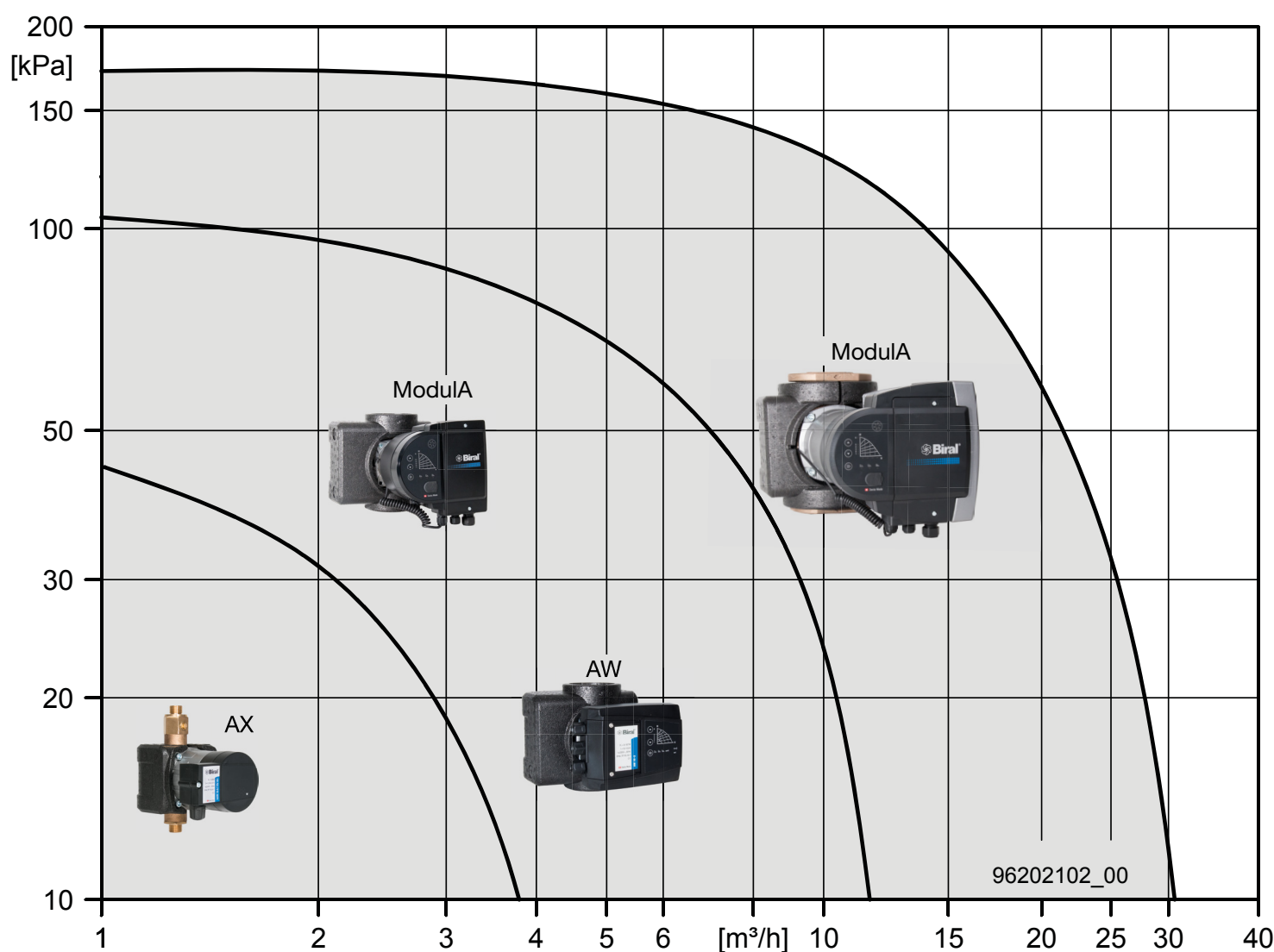
GREEN

Air conditioning/refrigeration

Functions	A... KW	ModuA... GREEN
Fluid temperature	-10 – 95°C	-10 – 110°C
Fault message/Operational message (switchable between)	✓	✓
External OFF or external ON (switchable between)	–	✓
Power Limit (activatable)	–	✓
Button lock	–	✓
Flow rate indicator	–	✓
Discrete installation of electronics	–	✓
Biral Remote Adapter (optional)	–	✓
Power limiting (deactivatable)	✓	–
Automatic night-time reduction (activatable)	✓	–
BIM Biral Interface Modules	✓	✓

General information

Overview of characteristics for service water pumps



BLUE



Service water

Functions	AX... BLUE	AW	Modula... BLUE
Fluid temperature	15 – 85°C	15 – 85°C	15 – 85°C
Fault message/Operational message (switchable between)	–	✓	✓
External OFF or external ON (switchable between)	–	–	✓
Power limit (activatable)	–	–	✓
Button lock	–	–	✓
Flow rate indicator	–	–	✓
Biral Remote Adapter (optional)	–	–	✓
Power limit (deactivatable)	–	✓	–
Automatic night-time reduction (activatable)	✓	✓	–
BIM Biral Interface Modules	–	✓	✓

General information

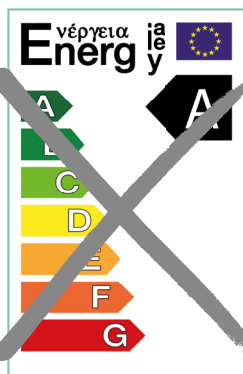
Biral ECO Design

The old energy label with the ratings from «A» to «G» have been replaced by a new energy efficiency index (EEI) as of 1 January 2013.

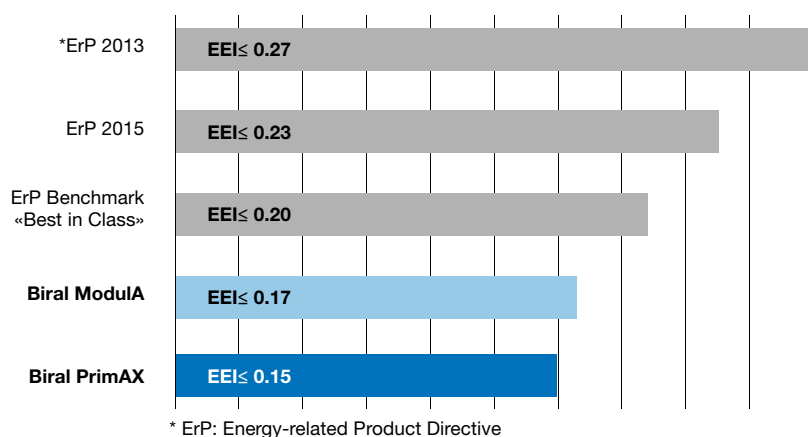
The new Biral ECO Design label

The new ECO Design label from Biral shows you at a glance that your pump belongs to the top of the class in energy efficiency. A Biral product labelled with the «ECO Design» saves up to 80% energy.

Exchanging older pumps with a new ModulA from Biral already pays off in significantly lower energy costs even after just a short time.



Efficiency as an obligation



The highly efficient mini-energy circulation pumps from Biral are extremely energy-efficient and meet the requirements of the ECO Design guidelines (EC Regulation no. 641/2009), that have been informed since 1 January 2013. Even the more stringent EEI values as of August 2015 are surpassed.

Reference value

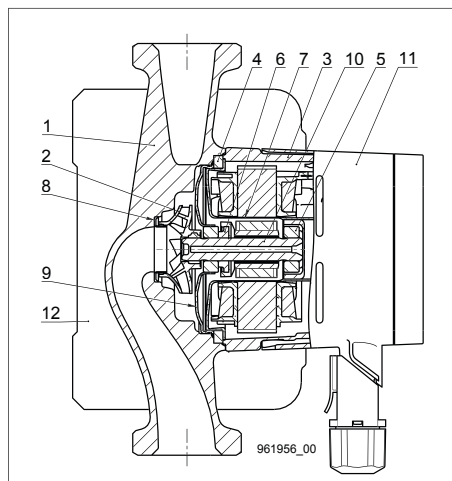
for the most efficient circulation pumps:
EEI ≤ 0,20

Drinking water circulation pumps do not come under the ECO Design guidelines. Nevertheless, Biral has highly efficient, energy-saving pumps in its product range here as well.

Product information

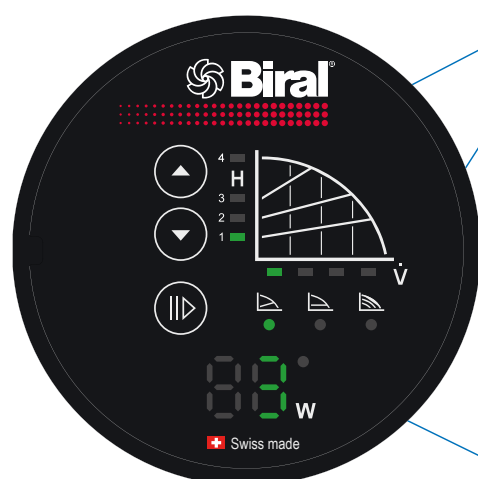
PrimAX

Summary of materials



Pos.	Component	PrimAX material
1	Pump casing	Grey cast iron
2	Impeller	PES
3	Stator casing	Aluminium
4	Seal	EPDM
5	Slide bearing	Ceramic
6	Axial bearing	Synthetic carbons and EPDM
7	Can	Stainless steel
8	Split ring	Stainless steel
9	Bearing cover	Stainless steel
10	Shaft	Ceramic
11	Frequency converter	PC GF10
12	Heat insulation shells	EPP, fire protection class B2 DIN 4102

Operation



Control characteristics
4 stages can be set

Flow indicator
The flow indicator displays the approximate flow and helps when commissioning the pumps.

Setting the control type

- Proportional pressure (pp)
- Constant pressure (cp)
- Constant speed (cs)

Status and watt display



+2°C to 110°C



Functions



Deblocking system

The powerful start-up process makes the pump vibrate, to release any dirt deposits after longer periods of inactivity.



Magnetic-resistant

The magnetic-resistant ceramic shaft and bearing reduce the risk of blocking by iron or other magnetic particles.



Installation depth

With an installation depth of 103.3 mm, the pump is more compact than any other pump and is suitable for installation in extremely tight spaces.



Biral connector

The Biral connector with screw clamps guarantees quick and easy installation.



Angle plug

The angle plug is ideal for use in restricted spaces and is included as standard.



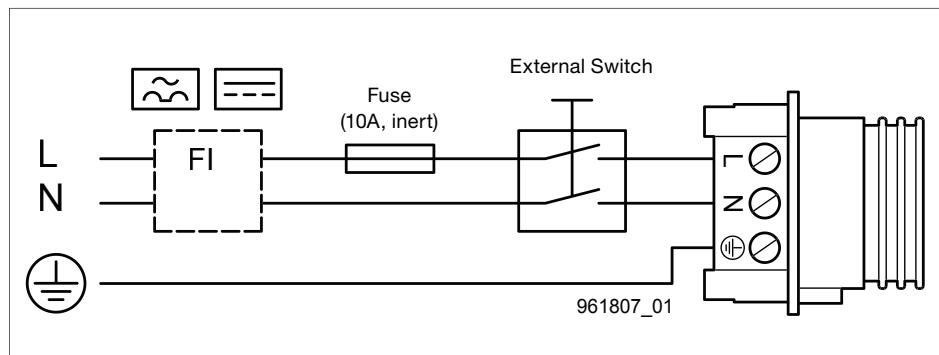
Key lock

The key lock gives protection from unwanted switching of the pump after commissioning.

Product information

PrimAX

Electrical connection



Example of a typical mains connection, 1 x 230 V $\pm 10\%$, 50 / 60 Hz

Electrical connection may only be carried out by an electrical specialist in accordance with the local regulations and provisions.

- The pump must be secured on-site and connected to an external mains switch.

- The pump must be earthed sufficiently.
- The pump does not require any external motor protection.
- The pump has integrated excess temperature protection, which offers sufficient protection against the occurrence of over loads and blocking.

Cable

- All cables must be heat-resistant up to a minimum of + 85° C.
- All cables are to be connected in accordance with EN 60204-1 and EN 50174-2: 2000.

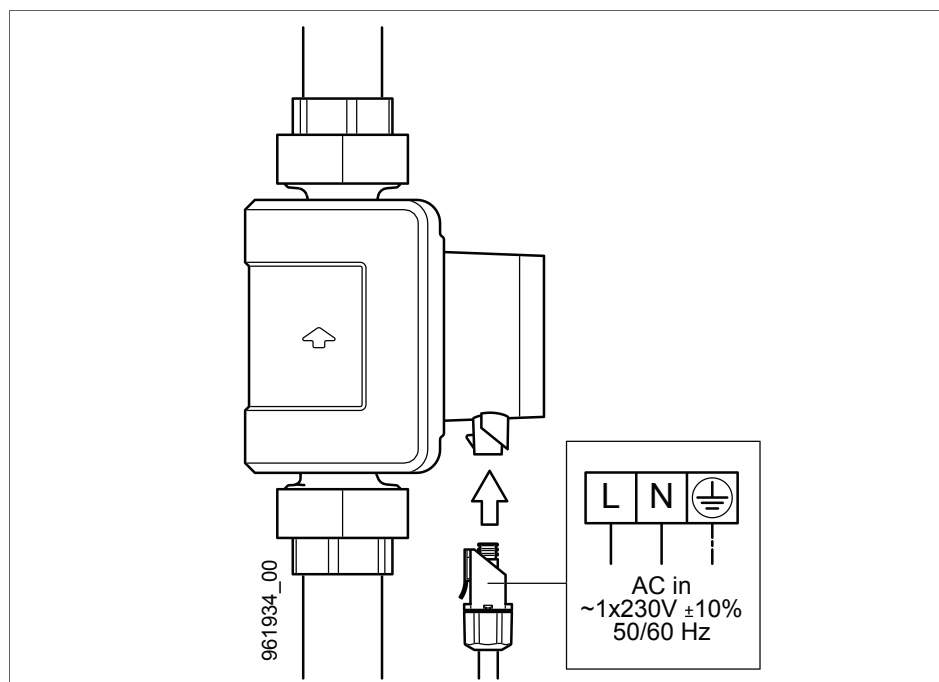
Additional protection

If the pump is connected to an electrical installation, which has a ground fault circuit interrupter for additional protection, the ground fault circuit interrupter must trigger pulsing DC components if earth fault currents occur.

The fault current protection switch must be marked with the first symbol or with both the following signals:



Connection scheme



Mains connection:

~1x230V $\pm 10\%$, 50/60Hz

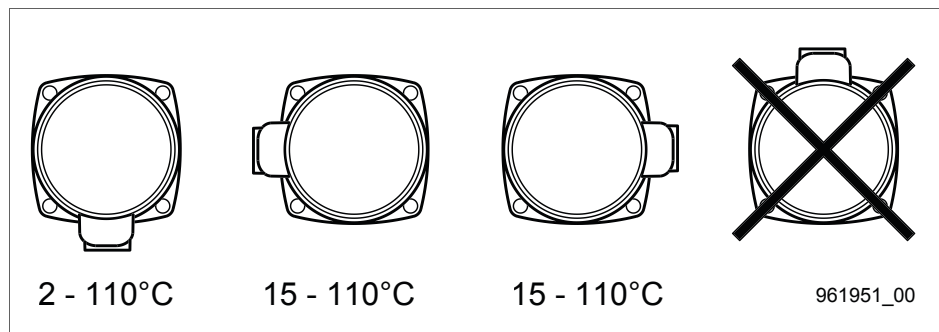
Terminals:

L, N, PE Mains connection

Product information

PrimAX

Temperature limits



Installation position in heating systems.

In heating systems with a medium temperature of +15 to +110 °C, the pump head can be set at positions 3 o'clock, 6 o'clock or 9 o'clock.

Installation position in air-conditioning systems and cold water systems.

In air-conditioning and cold water systems, the pump head must be set in such a way that the connector points downwards (6 o'clock).

Ambient temperature °C	Media temperature	
	Min. °C	Max. °C
0	2	110
15	15	110
30	30	110
35	35	90
40	40	70

Information

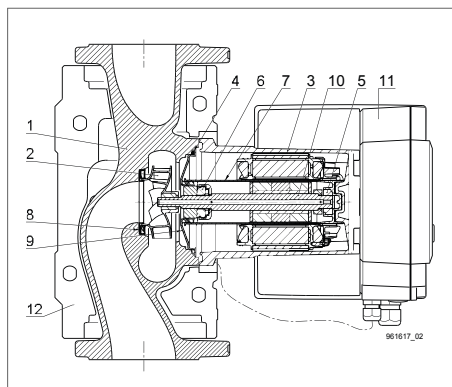
To avoid condensation water in the terminal box and in the stator, the medium temperature must always be higher than the ambient temperature.

If the medium temperature is below the ambient temperature, the pump head and connector must be set at the 6 o'clock position.

Product information

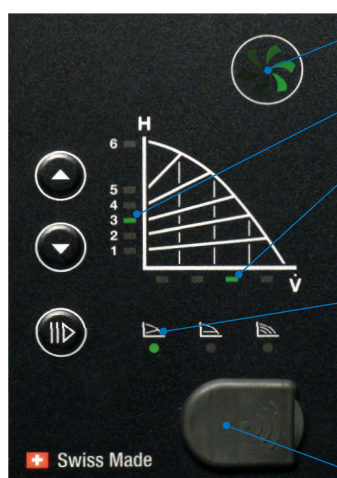
ModulA, ModulA-D

Material overview



Pos.	Component	Material ...RED/...GREEN/...BLUE
1	Pump housing	grey cast iron / grey cast iron with special colour coating / bronze
2	Impeller	PES
3	Stator housing	aluminium
4	Seal	EPDM
5	Friction bearings	aluminium oxide
6	Axial bearings	aluminium oxide, synthetic carbon
7	Can	PPS
8	Gap seal	stainless steel
9	Storage cover	stainless steel
10	Shaft	stainless steel (version with clamp connector)
10	Shaft	ceramic (version with Biral connector)
11	Frequency inverter	PC-ABS (UL94 V-0)
12	Thermal insulation shell	EPP, fire protection class B2 DIN 4102 (... RED, ... BLUE)

Operation



-  **Biral Impeller**
Discrete installation of electronics
-  **Control characteristics**
10 stages can be set
-  **Flow indicator**
The flow indicator displays the approximate flow and helps when commissioning the pumps.
-  **Setting the control type**
 -  Proportional pressure (pp)
 -  Constant pressure (cp)
 -  Constant speed (cs)
-  **Remote adapter interface**
For wireless communication between smartphone and pump

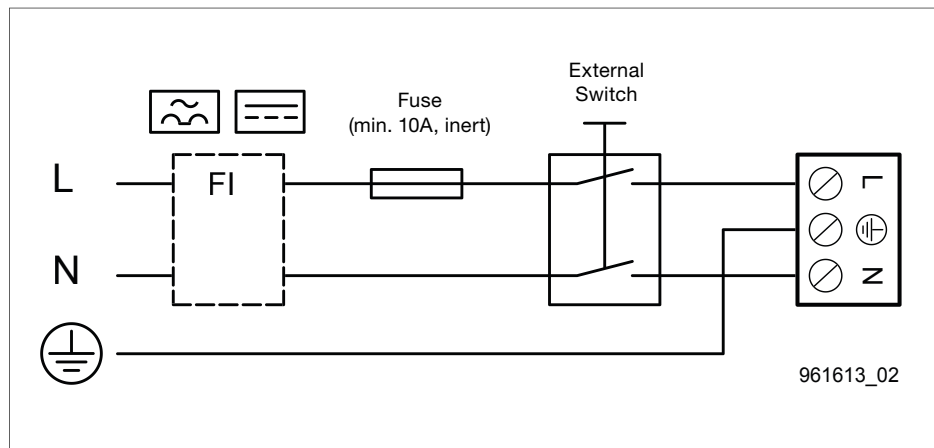
Functions

-  **Monitoring**
The pump has a signal relay with an electrically isolated changeover switch for an external fault message. The signal relay can be switched over to an operational message by means of Switch 1.
-  **Discrete installation**
Biral is the only manufacturer to offer discrete installation providing the following benefits: longer service life, greater operational safety and reliability and the solution to space problems when replacing existing equipment.
-  **On/Off**
The digital input can be used for an external ON/OFF switch for the pump. Switch 2 can be used to switch between external OFF and external ON.
-  **Key lock**
The key lock gives protection from unwanted switching of the pump after commissioning.
-  **Power limit**
Optimum limitation of volumetric flow rate and the reduction of circulation noises achieved by the power limit offer major advantages.
-  **Modular**
With the Biral Interface Module the ModulA can be easily and adaptably integrated in any building services control system.

Product information

ModulA, ModulA-D

Electrical connection



Example of a typical electrical connection: 1x230V +/- 10%, 50/60Hz

The electrical connection may only be done by an electrician in compliance with the local regulations and provisions.

- The pump is to be secured on site and an external electrical switch connected to it.
- The pump must be sufficiently earthed.
- The pump does not need an external motor protection.

- The pump has an integrated overheat protection which provides sufficient protection against progressive overheating and keeps it from blocking.
- If the pump is directly connected to the power supply, it takes 5 seconds before it begins to run

Note: For direct power connection, the pump may not be turned on and off current side more than four times per hour.

Cables

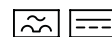
Shielded cables should be used for the external ON/OFF switch, the digital input and the target value signal.

- All cables must be heat resistant up to at least +85° C.
- All cables must be connected in compliance with EN 60204-1 and EN 50174-2:2000.

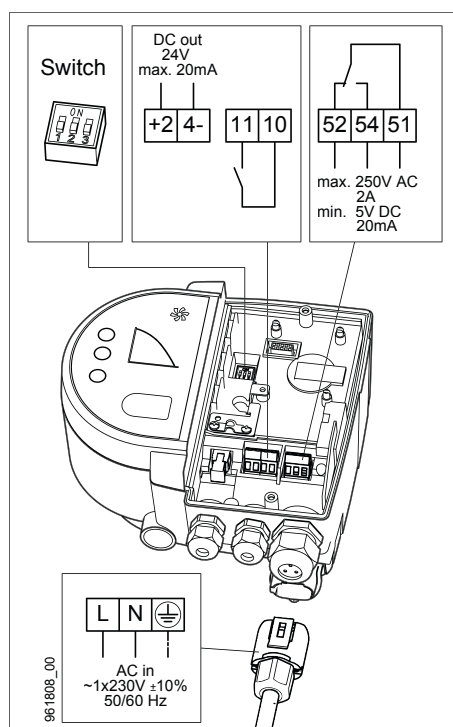
Additional fuse protection

If the pump is connected to an electrical installation which has a ground fault circuit interrupter as an additional safeguard, the GFCI must be triggered with pulsing direct current if an earth surge occurs.

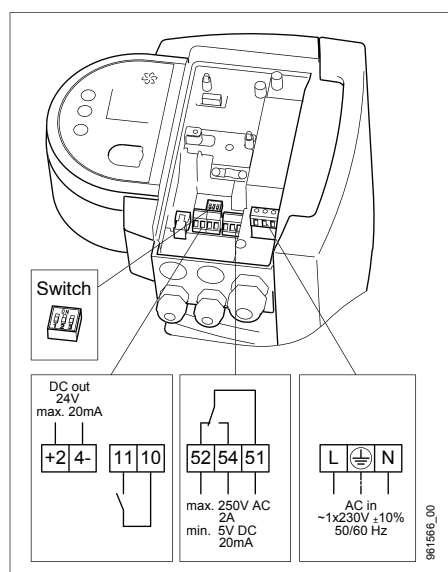
The surge circuit interrupter must be identified with the first symbol or with both of the following symbols:



Connection diagram



ModulA with Biral connector



ModulA with clamp connector

Electrical connection

1x230V +/- 10%, 50/60Hz

Clamps

- L, N, PE** Electrical connection
- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Fault message or operating message

Switch

- 1 Fault message or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power limit (activatable)

Product information

ModulA, ModulA-D

Switch 1 Fault message or operating message (switchable)

		Connection	Status	Connection	Status
					
Fault message	Switch 1 OFF		impeller green Fault message inactive		impeller green Fault message inactive
	Switch 1 ON		impeller red Fault message active		impeller red Fault message active
Operating message	Switch 1 ON		impeller rotating Operating message active		impeller rotating Operating message active
	Switch 1 OFF		impeller standing Operating message inactive		impeller standing Operating message inactive

961865_01

961827_00

The pump has a message relay with a potential-free changeover contact for external fault messages. The message relay can be changed to an operating message using Switch 1.

Switch 2 External OFF or external ON (switchable)

		Connection	Status	Connection	Status
					
External OFF	Switch 2 OFF		Mode ON		Mode OFF
External OFF	Switch 2 ON		Mode OFF		Mode ON

961865_01

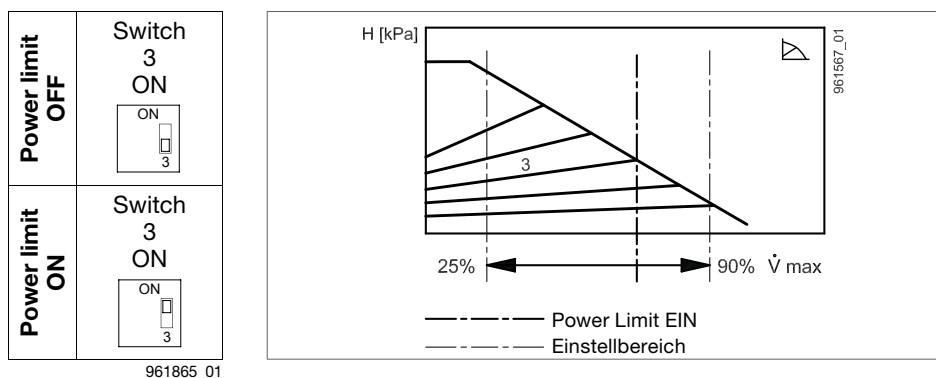
961828_00

Digital input

The digital input can be used for the external ON/OFF pump switch. It is possible to switch over from External OFF to External ON using Switch 2.

Note: If no external ON/OFF switch is connected, the pump runs when the Switch 2 is in the OFF position and no jumper is at clamps 11, 10. This is the factory setting.

Switch 3 Power limit (activatable)



961865_01

The Power limit (flow rate limiting $\dot{V}$) can be activated in the pump. The predefined maximum flow rate $\dot{V}$ is at the end of the regulation characteristic 3 (proportional pressure). The flow rate limiting $\dot{V}$ of 25 ... 90% can be set.

Product information

ModulA, ModulA-D

Operation mode for twin pumps

The twin pump function on the Biral interface module BIM B3 control module enable regulation of two parallel, individual pumps and of twin pumps without the need for an external control, and is designed for alternate operation or reserve operation in installations with increased safety requirements. The pump switch-over occurs depending on the time or when one pump outages.

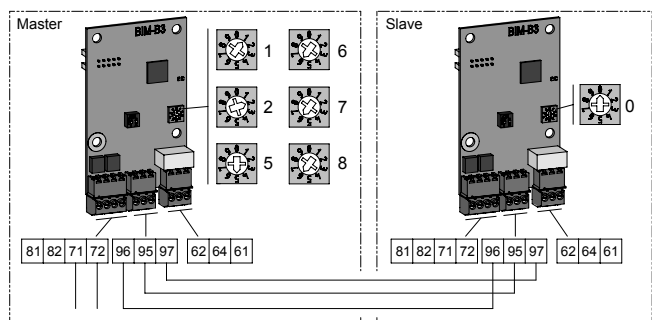
Alternating operation (24/24 hrs) or reserve operation (22/2 hrs)

Biral Interface Modul BIM B3 (for controlled pumps)

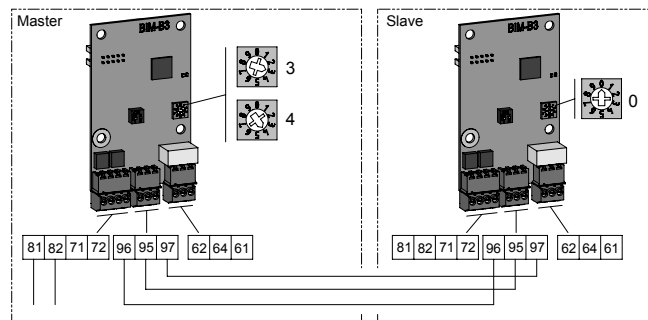
	Operating mode	Master (main pump)	Slave (reserve pump)	Remarks
Switch 2 ON	Reserve mode	22h	2h	The pump that has completed fewer hours of duty starts first after Power ON..
Switch 2 OFF	Alternating mode	24h	24h	The pump that has completed fewer hours of duty starts first after Power ON..

Electrical connection:

Double pump mode via analogue input 71, 72



Double pump mode via digital input 81, 82



Parallel operation with constant speed (cs)

For twin pumps, parallel operation (pump 1 + pump 2) at the same speed is possible. In this operating mode, no Biral interface modules are needed.

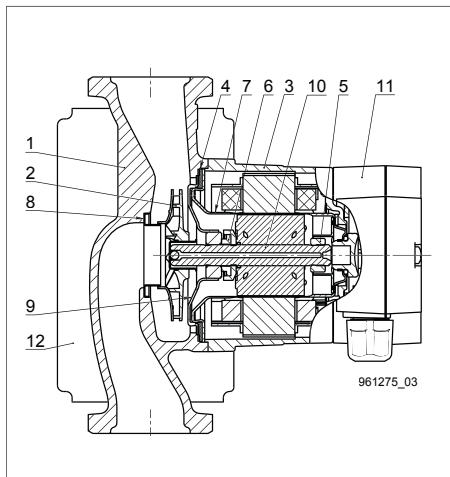
Parallel operation with external speed specification (BIM B3)

Parallel operation with external speed specification over the BIM B3 control module (2x) with the same speed specification is possible for twin pumps.

Product information

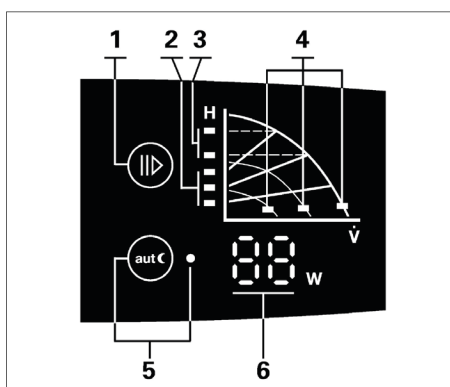
AX

Materials overview



Pos.	Component	Material AX... RED / AX... BLUE
1	Pump housing	grey cast iron / bronze
2	Impeller	PP or PES
3	Stator housing	aluminium
4	Seal	EPDM
5	Friction bearings	ceramic
6	Axial bearings	synthetic carbon, EPDM
7	Can	stainless steel
8	Gap seal	stainless steel
9	Storage cover	stainless steel
10	Shaft	ceramic
11	Frequency inverter	PPO
12	Thermal insulation shell	EPP, fire protection class B2 DIN 4102

Operation



- 1 control key
- 2 proportional pressure (pp)
- 3 constant pressure (cp)
- 4 constant speed (cs)
- 5 automatic night reduction
- 6 The indicator shows the current power consumption for the pump in switched on mode. A fault in pump functioning is indicated by «- -».

Operation

The regulated circulation pumps can be operated in three different modes and have a so-called automatic night reduction in some cases.

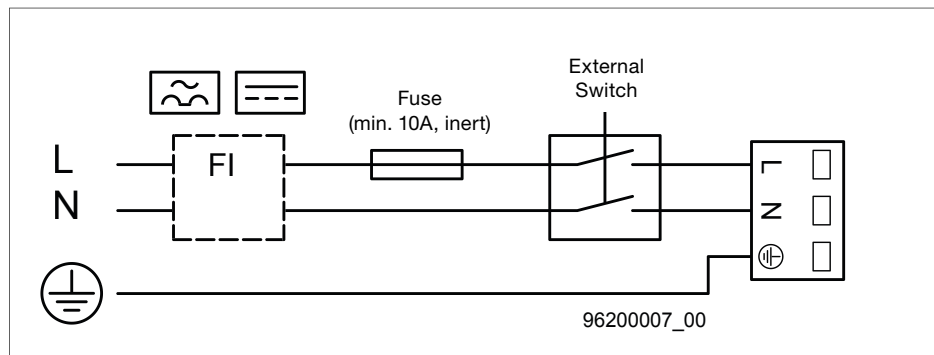
Functions

- Automatic night reduction (activatable)

Product information

AX

Electrical connection



Example of a typical electrical connection: 1x230V +/- 10%, 50/60Hz

The electrical connection may only be done by an electrician in compliance with the local regulations and provisions.

- The pump is to be secured on site and an external electrical switch connected to it.
- The pump must be sufficiently earthed.
- The pump does not need an external motor protection.
- The pump has an integrated overheat protection which provides sufficient protection against progressive overheating and keeps it from blocking.

Cables

- All cables must be heat resistant up to at least +85° C.
- All cables must be connected in compliance with EN 60204-1 and EN 50174-2:2000.

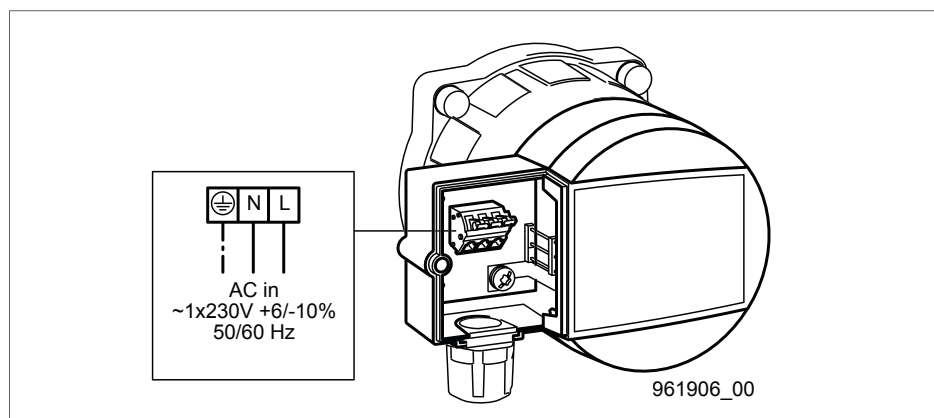
Additional fuse protection

If the pump is connected to an electrical installation which has a ground fault circuit interrupter as an additional safeguard, the GFCI must be triggered with pulsing direct current if an earth surge occurs.

The surge circuit interrupter must be identified with the first symbol or with both of the following symbols:



Wiring diagram



Power connection

1x 230 V +6/-10%, 50/60 Hz, PE
Fuse 10A

Clamps

L, N, PE Electrical connection

Temperature limits

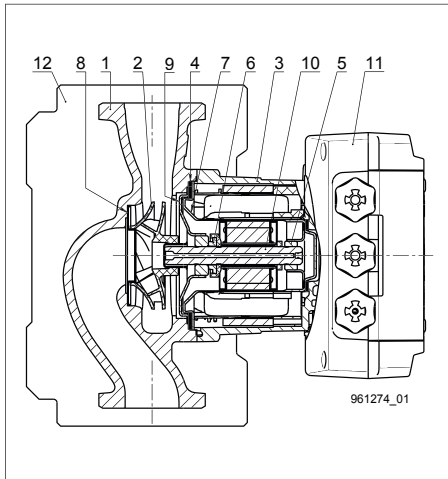
Ambient temperature °C	Media temperature	
	min. °C	max. °C
15	15	110
30	30	110
35	35	90
40	40	70

To avoid condensation build up, the media temperature must always be higher than the ambient temperature.

Product information

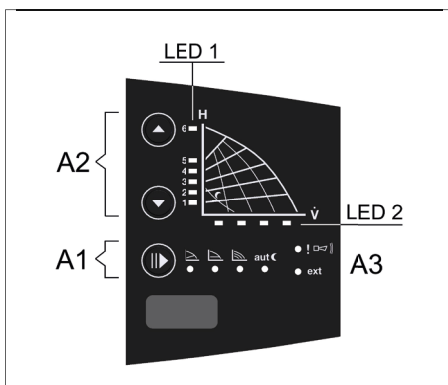
A, AD, A... KW, AW

Materials overview



Pos.	Component	Material for A / A...KW / AW
1	Pump housing	grey cast iron / grey cast iron with special colour coating / bronze
2	Impeller	plastic
3	Stator housing	aluminium
4	Seal	EPDM
5	Friction bearings	ceramic
6	Axial bearings	synthetic carbon, EPDM
7	Can	chrome-nickel steel
8	Gap seal	stainless steel
9	Storage cover	stainless steel
10	Shaft	ceramic
11	Frequency inverter	PPO
12	Thermal insulation shell	EPP, fire protection class B2 DIN 4102

Operation



Pos.	Component
A1	Type of control
A2	Regulation characteristics 1 ... 5 6 max. pump characteristics
A3	Light symbol for technical problems, ext. Operation
	Proportional pressure
	Constant pressure
	Constant speed
Aut. 	with and without automatic night reduction
LED 1	Indication of regulation characteristic set
LED 2	Indication of current rate of flow $\dot{V}$ (25... 100%)

Operation

The regulated circulation pumps can be operated in three different modes and have a so-called automatic night reduction in some cases.

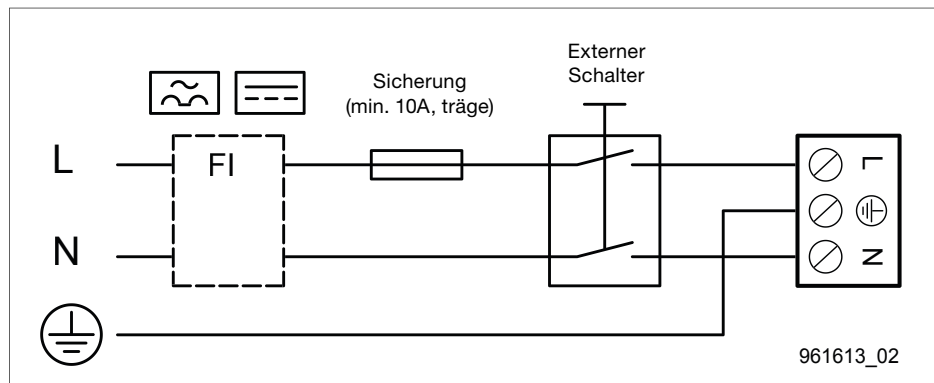
Functions

- Fault message and operating message (switchable)
- Power limiting (deactivatable)
- Automatic night reduction (activatable)

Product information

A, AD, A... KW, AW

Electrical connection



Example of a typical electrical connection: 1x230V, 50/60Hz

The electrical connection may only be done by an electrician in compliance with the local regulations and provisions.

- The pump is to be secured on site and an external electrical switch connected to it.
- The pump must be sufficiently earthed.

- The pump does not need an external motor protection.
- The pump has an integrated overheat protection which provides sufficient protection against progressive overheating and keeps it from blocking.
- If the pump is directly connected to the power supply, it takes 5 seconds before it begins to run

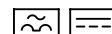
Cables

- All cables must be heat resistant up to at least +85°C.
- All cables must be connected in compliance with EN 60204-1 and EN 50174-2:2000.

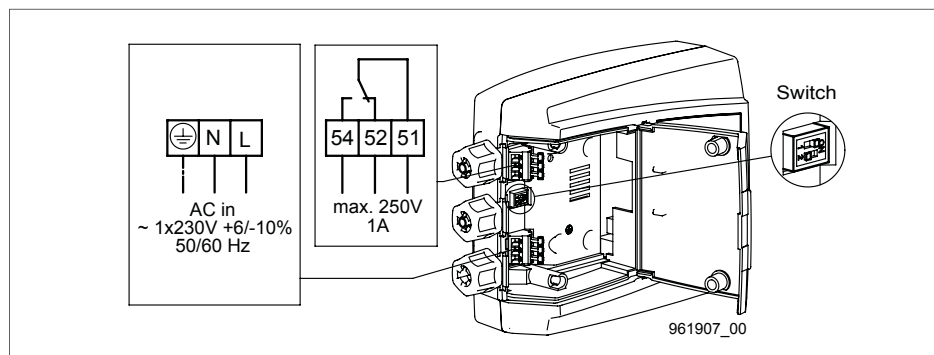
Additional fuse protection

If the pump is connected to an electrical installation which has a ground fault circuit interrupter as an additional safeguard, the GFCI must be triggered with pulsing direct current if an earth surge occurs.

The surge circuit interrupter must be identified with the first symbol or with both of the following symbols:



Connection diagram



Electrical connection

1x230V +/-10%, 50/60Hz

Clamps

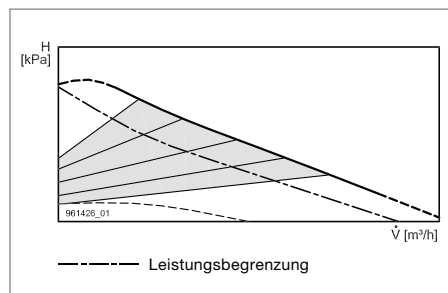
L, N, PE Electrical connection
54, 52, 51 Fault message or operating message

Switch

- 1 Power limiting (deactivatable)
- 2 Fault message or operating message (switchable)

Switch 1 Power limiting (deactivatable)

Switch 1 ON		Power limit ON
Switch 1 OFF		Power limit OFF

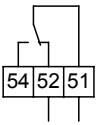
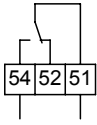
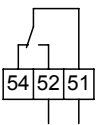
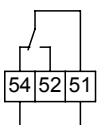
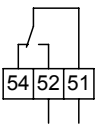
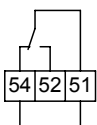
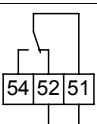
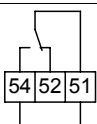


All A pumps are delivered with a pre-defined power limiting. This characteristic is sufficient owing to the power reserve in the design. The limiting also saves energy and avoids flow noise owing to over-sized pumps. If the full power is required, the pump can be changed over in the terminal box.

Product information

A, AD, A... KW, AW

Switch 2 Fault message or operating message (switchable)

		Connection	Status	Connection	Status
					
Fault message	Switch 2 OFF		Fault message not illuminated Fault message inactive		Fault message not illuminated Fault message inactive
			Fault message illuminated/blinking red Fault message active		Fault message illuminated/blinking red Fault message active
Operating message	Switch 2 ON		pump rotating operating message active		pump rotating operating message active
			pump standing operating message inactive		pump standing operating message inactive

The pump has a message relay with a potential-free changeover contact for external fault messages. The message relay can be changed to an operating message using Switch 2.

961904_00

Temperature limits

Ambient temperature	Media temperature	
°C	min. °C	max. °C
15	15	95/110*
30	30	95/110*
35	35	90
40	40	70

* short term (30 min.)

To avoid condensation build up, the media temperature must always be higher than the ambient temperature.

Twin pumps AD14, AD15 and AD401

Alternating operation (22 hrs/22 hrs) or reserve operation (22 hrs/2 hrs)

The pumps are designed for individual operation in installations with increased safety requirements (pump 1 or pump2). The pump changeover occurs depending on the time or when a pump fails. The BIM A signal module (2x) is needed for this.

Parallel operation with constant speed (cs)

(Pump 1 + pump 2) is only allowed at constant speed (cs), however, it is not possible with proportional pressure (pp) or constant pressure (cp). In this operating mode, no Biral interface module is needed.

Parallel operation with external speed specification

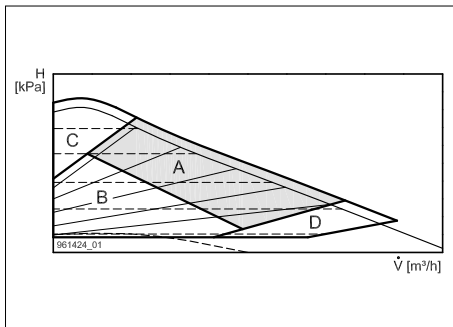
(0–10 V/0–20 mA/PWM) can be operated over the BIM B2 control module (2x).

Accessories

- BIM A Signal module (2x)
- BIM B Control module (2x)

Notes for project planning and installation

Selection of circulating pump



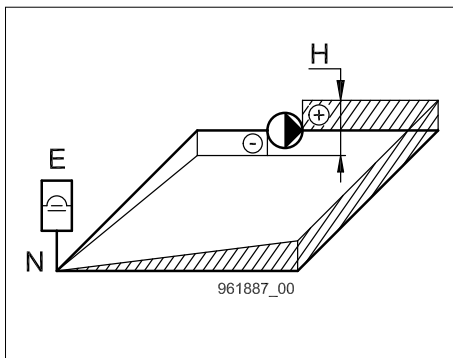
- A** = Optimum control range
– Range with the best degree of overall effectiveness
- B** = Limited control range
– If possible select a smaller pump
- C** = Limited control range
– The pump works but has limited control
- D** = Outside the control range
– If possible avoid

Recommendation for regulated circulating pumps

Regulated circulating pumps continually adjust the flowrate along a pre-defined characteristic with changing pipe characteristics.

Nevertheless it is also worthwhile here to make a careful choice of the right pump size.

Required operating pressure at circulating pump



If the operating pressure is too low, adequate lubrication of the pump sliding bearings (water lubrication) is not ensured and therefore their service life is reduced. The values specified should therefore be observed without fail. The required operating pressure depends on the type of pump, the maximum temperature of the medium and the static pressure. If the position of the expansion vessel is not ideal, the operating pressure at the pump inlet when operating the pump can be

reduced further. This can lead to penetration of air and inadequate bearing lubrication. In this case the static operating pressure must be raised accordingly.

Pressure distribution

- + = Overpressure range
– = Underpressure range
E = Expansion vessel
N = Neutral point
H = Delivery head of pump

Wahl der Regelungsart

Regulated pumps can be operated in three different control types:



Regulation with proportional operating pressure (PP)

The internal regulation increases the differential pressure of the system with increasing flowrates.

This desired regulation curve can be preset. This regulation is particularly suitable for the following systems:

- Two-pipe heating systems with thermostatic valves and
 - long pipe sections
 - valves with wide working range
 - high pressure losses
- Floor heating systems with thermostatic valves and high pressure losses
- Systems with primary circuit pumps with high pressure loss.



Regulation with constant operating pressure (CP)

The internal regulation keeps the differential pressure of the system constant if the flowrate changes. This pressure can be preset. This regulation is particularly suitable for the following systems:

- Two-pipe systems with thermostatic valves and
 - delivery head larger than 2 m
 - natural circulation (low pressure loss, large pipe dimensions)
- Floor heating systems with thermostatic valves
- Single-pipe heating systems with thermostatic valves and regulating valves
- Systems with primary circuit pumps with low pressure loss

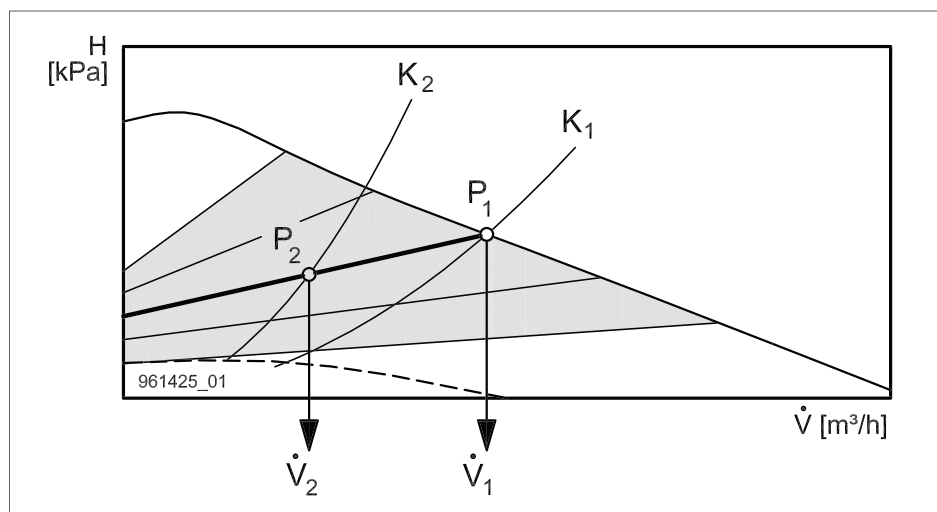


Regulation with constant speed (CS)

With this form of regulation the internal pressure regulation is switched off. The speed of the pump can be adjusted to a constant value manually or by an external signal (auxiliary module 0–10 V). This form of regulation is particularly suitable for systems with constant pressure conditions (heat exchangers, boiler feed pumps, etc.) or for external system regulation.

Notes for project planning and installation

Choice of regulation characteristic



Continuous variation of pump speed in regulated pumps.

With changing pipeline resistance ($K_1 \rightarrow K_2$) regulated circulating pumps continuously adjust the flowrate along a pre-defined characteristic curve.

The required regulation characteristic can be set by means of the rotary switch or the keys.

Requirements of medium

Water treatment

The guidelines of SWKI BT102-01 and VDI 2035 «Water treatment for heating, steam and air-conditioning systems» should be observed.

Overall hardness

7 to 14 °fH (4-8 °dH)

pH value

8.3 to 9.5
(8.3 to max. 9 for systems with aluminium or non-ferrous metal components)

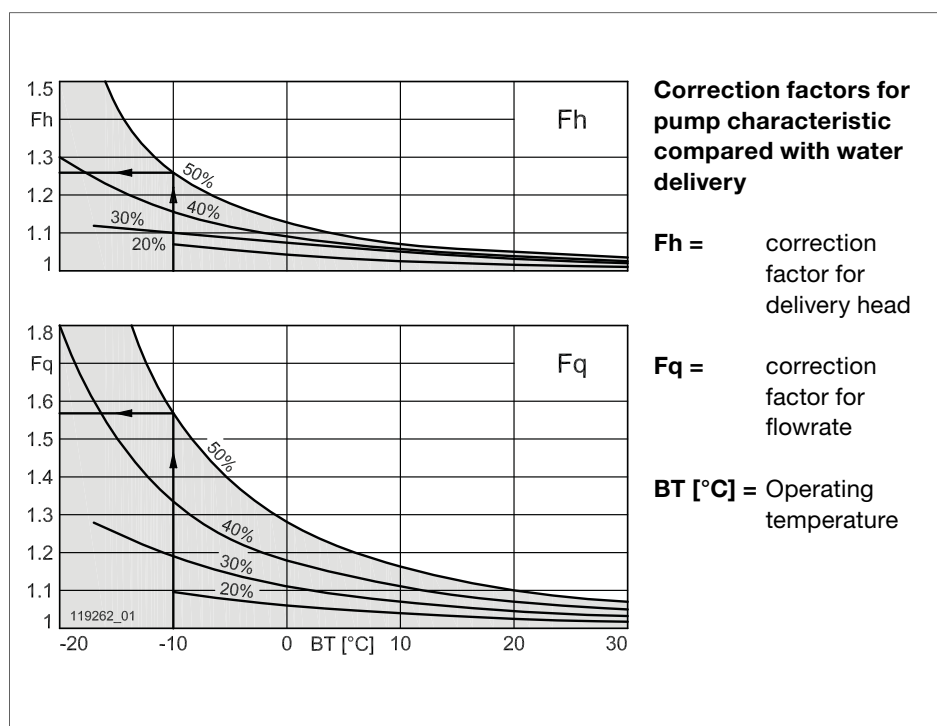
Oxygen

<0,1 mg/dm³

The systems must be thoroughly flushed before filling.

Anti-frost mixture

Water/glycol mixture with up to 50% glycol is permitted. From 10% glycol proportion the delivery data of the pumps must be corrected according to fig. 3.



Example

$H_{\text{Gemisch}} = 30 \text{ kPa}$

$Q_{\text{Gemisch}} = 7 \text{ m}^3/\text{h}$

Medium:
50% glycol mixture at -10 °C operating temperature

Factors according to fig.:

$F_h = 1,26$

$F_q = 1,57$

Conversion of required pump operating point for water heat transfer

$H_{\text{water}} = H_{\text{mixture}} \times F_h$

$= 30 \times 1,26 = 37,8 \text{ kPa}$

$Q_{\text{water}} = Q_{\text{mixture}} \times F_q$

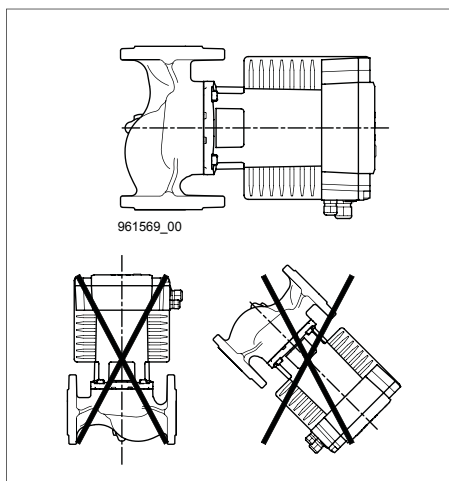
$= 7 \times 1,57 = 11 \text{ m}^3/\text{h}$

Circulating pump complying with operating point

$Q_{\text{water}}/H_{\text{water}}$: Modula 40-10 220 GREEN

Notes for project planning and installation

Pipeline connection and pump installation



Fitting pump

- Always fit pump between two shut-off devices
- Fit pump so that the motor shaft is horizontal, regardless of the position of the pump casing
- The arrow on the pump casing shows the flow direction
- Fit pump in pipeline free from stress
- When the pump is fitted do not work too closely with a welding flame
- The fitting of heating pumps on the inlet side reduces the danger of contamination. They should preferably be fitted on the return side
- if the temperature of the medium is very high.



Premium heating circulation pumps

PrimAX... RED

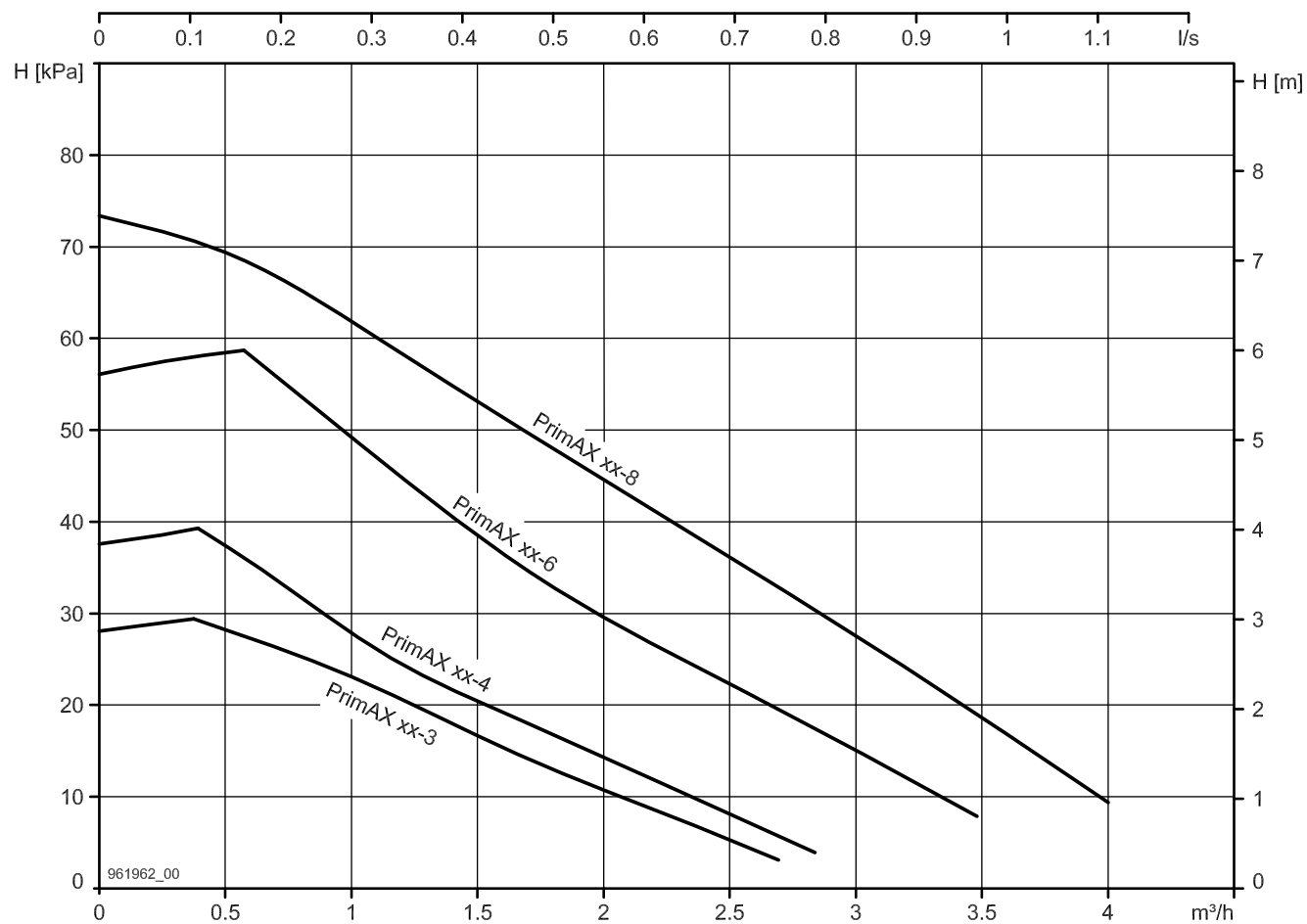
Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.	EEL-value
		DN	m	mm		bar	
PrimAX 25-3 180 RED	2205360150	25	3	180	G 1 1/2"	10	≤0.15
PrimAX 25-4 180 RED	2205370150	25	4	180	G 1 1/2"	10	≤0.16
PrimAX 25-6 180 RED	2205380150	25	6	180	G 1 1/2"	10	≤0.17
PrimAX 25-8 180 RED	2205390150	25	7.5	180	G 1 1/2"	10	≤0.18
PrimAX 32-3 180 RED	2205440150	32	3	180	G 2"	10	≤0.15
PrimAX 32-4 180 RED	2205450150	32	4	180	G 2"	10	≤0.16
PrimAX 32-6 180 RED	2205460150	32	6	180	G 2"	10	≤0.17
PrimAX 32-8 180 RED	2205470150	32	7.5	180	G 2"	10	≤0.18
PrimAX 32-3 170 RED	2205400150	32	3	170	G 2"	10	≤0.15
PrimAX 32-4 170 RED	2205410150	32	4	170	G 2"	10	≤0.16
PrimAX 32-6 170 RED	2205420150	32	6	170	G 2"	10	≤0.17
PrimAX 32-8 170 RED	2205430150	32	7.5	170	G 2"	10	≤0.18
PrimAX 15-3 130 RED	2205280150	15	3	130	G 1"	10	≤0.15
PrimAX 15-4 130 RED	2205290150	15	4	130	G 1"	10	≤0.16
PrimAX 15-6 130 RED	2205300150	15	6	130	G 1"	10	≤0.17
PrimAX 15-8 130 RED	2205310150	15	7.5	130	G 1"	10	≤0.18
PrimAX 25-3 130 RED	2205320150	25	3	130	G 1 1/2"	10	≤0.15
PrimAX 25-4 130 RED	2205330150	25	4	130	G 1 1/2"	10	≤0.16
PrimAX 25-6 130 RED	2205340150	25	6	130	G 1 1/2"	10	≤0.17
PrimAX 25-8 130 RED	2205350150	25	7.5	130	G 1 1/2"	10	≤0.18

Order reference

	PrimAX 32 -6 180 RED
Series	
Nominal diameter (DN) [mm]	
Max. discharge height [m]	
Installation height [mm]	
Field of application: heating (RED)	

Heating



PrimAX 25-3 180 RED

PrimAX 32-3 180 RED

PrimAX 32-3 170 RED

PrimAX 15-3 130 RED

PrimAX 25-3 130 RED

Nominal width	DN 25 DN 32 DN 15
Discharge head max.	3 m
Installation length	180 170 130 mm
Threaded connector	G 1 1/2" G 2" G 1"
Operating pressure max.	10 bar
Media temperature min.	+ 2°C
Media temperature max.	+110°C
Ambient temperature	0°C bis 40°C
Net weight	1.8 kg
Gross weight	2.0 kg

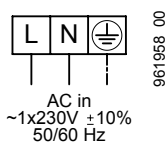
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	2-15 W
Rated current	0.03-0.12 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 90°C water temperature	0.28 bar
at 110°C water temperature	1.08 bar
for every ± 100 m altitude	0.01 bar

Connction diagram

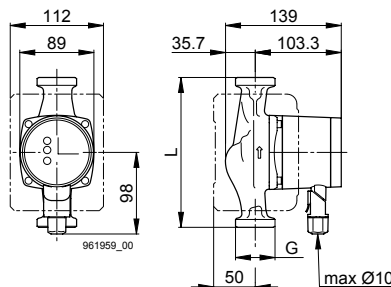


L, N, PE Power supply

Included in the scope of delivery

- Heat insulation shell
- Biral Connector and angled connector
- AFM seal

Type	Article number Biral
PrimAX 25-3 180 RED	2205360150
PrimAX 32-3 180 RED	2205440150
PrimAX 32-3 170 RED	2205400150
PrimAX 15-3 130 RED	2205280150
PrimAX 25-3 130 RED	2205320150



PrimAX 25-3 180 RED

DN 25
L = 180 mm
G = 1 1/2"

PrimAX 32-3 170 RED

DN 32
L = 170 mm
G = 2"

PrimAX 25-3 130 RED

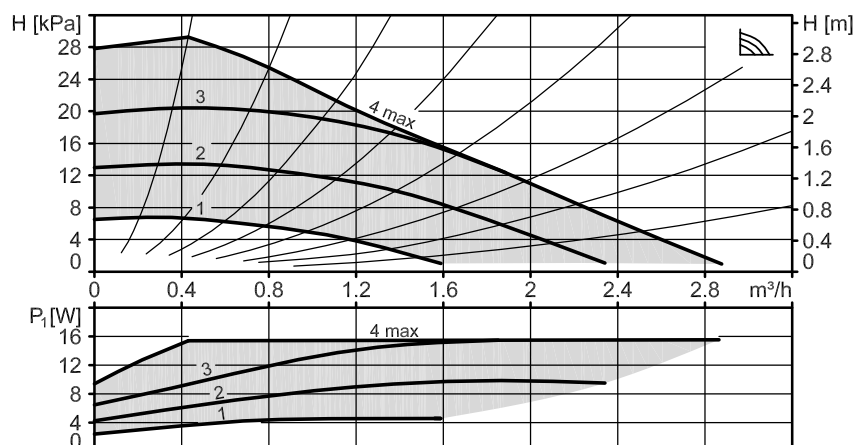
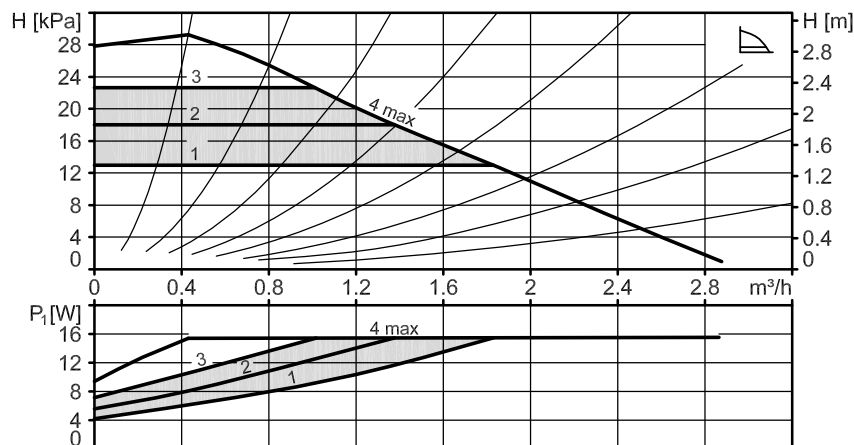
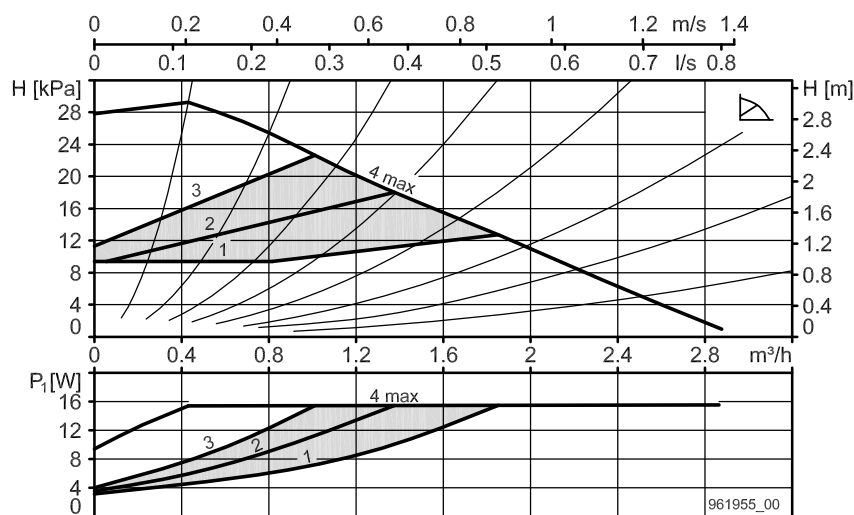
DN 25
L = 130 mm
G = 1 1/2"

PrimAX 32-3 180 RED

DN 32
L = 180 mm
G = 2"

PrimAX 15-3 130 RED

DN 15
L = 130 mm
G = 1"



PrimAX 25-4 180 RED

PrimAX 32-4 180 RED

PrimAX 32-4 170 RED

PrimAX 15-4 130 RED

PrimAX 25-4 130 RED

Nominal width	DN 25 DN 32 DN 15
Discharge head max.	4 m
Installation length	180 170 130 mm
Threaded connector	G 1 1/2" G 2" G 1"
Operating pressure max.	10 bar
Media temperature min.	+ 2°C
Media temperature max.	+110°C
Ambient temperature	0°C bis 40°C
Net weight	1.8 kg
Gross weight	2.0 kg

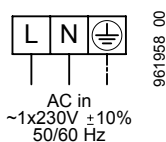
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	3-18 W
Rated current	0.03-0.15 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 90°C water temperature	0.28 bar
at 110°C water temperature	1.08 bar
for every ± 100 m altitude	0.01 bar

Connction diagram

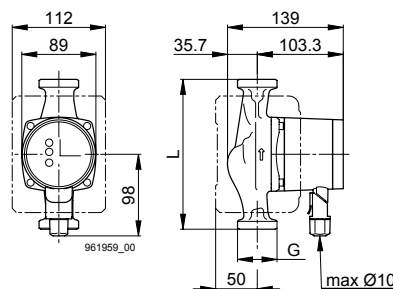


L, N, PE Power supply

Included in the scope of delivery

- Heat insulation shell
- Biral Connector and angled connector
- AFM seal

Type	Article number Biral
PrimAX 25-4 180 RED	2205370150
PrimAX 32-4 180 RED	2205450150
PrimAX 32-4 170 RED	2205410150
PrimAX 15-4 130 RED	2205290150
PrimAX 25-4 130 RED	2205330150



PrimAX 25-4 180 RED

DN 25
L = 180 mm
G = 1 1/2"

PrimAX 32-4 170 RED

DN 32
L = 170 mm
G = 2"

PrimAX 25-4 130 RED

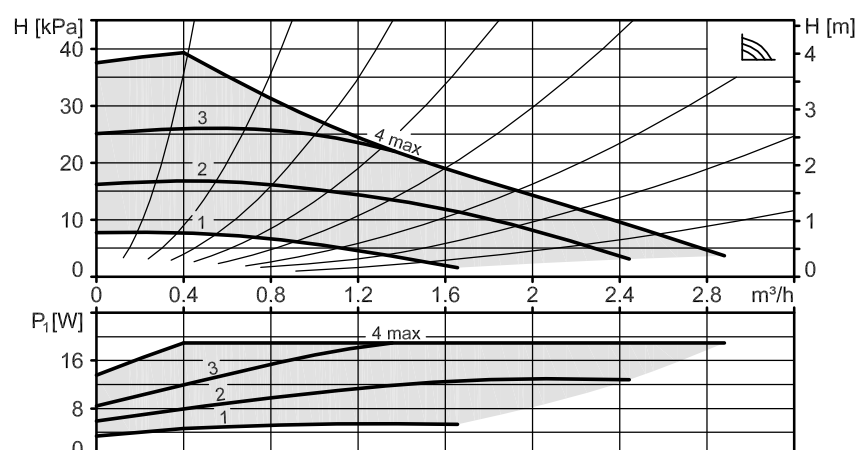
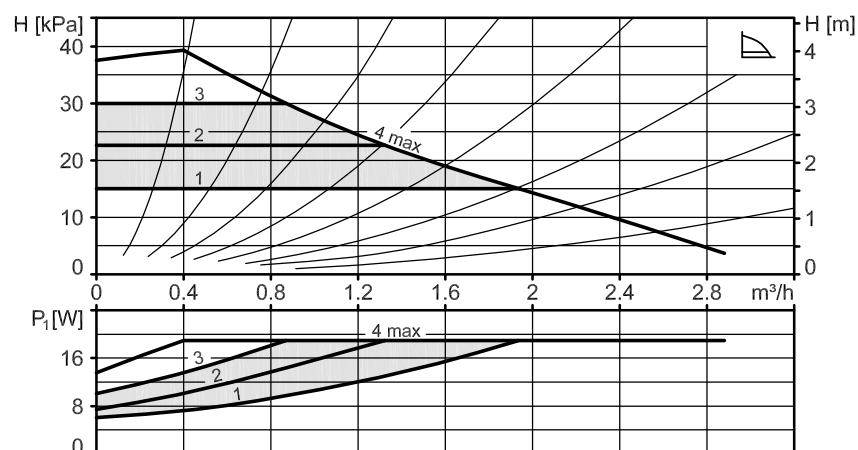
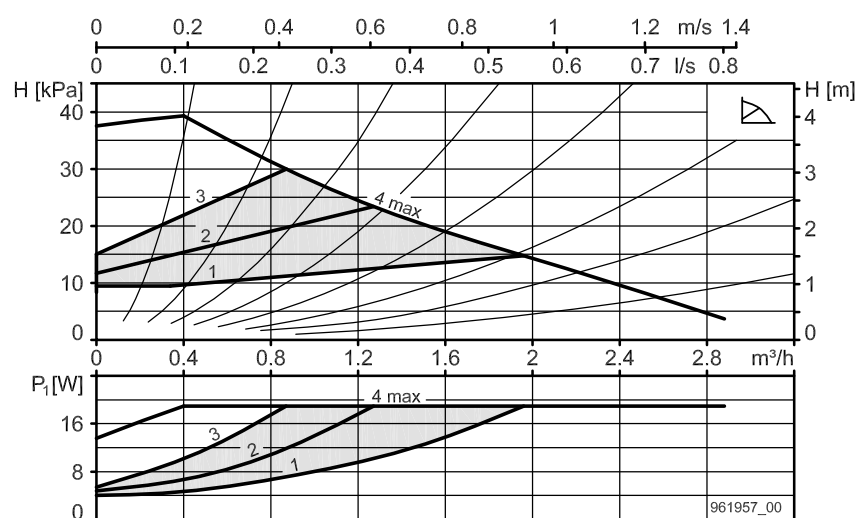
DN 25
L = 130 mm
G = 1 1/2"

PrimAX 32-4 180 RED

DN 32
L = 180 mm
G = 2"

PrimAX 15-4 130 RED

DN 15
L = 130 mm
G = 1"



PrimAX 25-6 180 RED

PrimAX 32-6 180 RED

PrimAX 32-6 170 RED

PrimAX 15-6 130 RED

PrimAX 25-6 130 RED

Nominal width	DN 25 DN 32 DN 15
Discharge head max.	6 m
Installation length	180 170 130 mm
Threaded connector	G 1 1/2" G 2" G 1"
Operating pressure max.	10 bar
Media temperature min.	+ 2°C
Media temperature max.	+110°C
Ambient temperature	0°C bis 40°C
Net weight	1.8 kg
Gross weight	2.0 kg

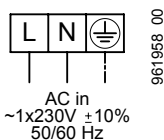
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	3-34 W
Rated current	0.03-0.27 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 90°C water temperature	0.28 bar
at 110°C water temperature	1.08 bar
for every ± 100 m altitude	0.01 bar

Connction diagram

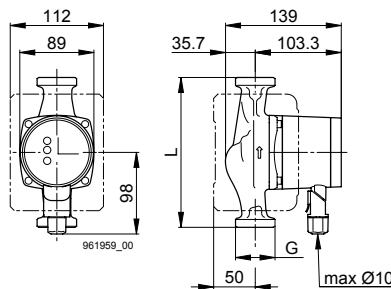


L, N, PE Power supply

Included in the scope of delivery

- Heat insulation shell
- Biral Connector and angled connector
- AFM seal

Type	Article number Biral
PrimAX 25-6 180 RED	2205380150
PrimAX 32-6 180 RED	2205460150
PrimAX 32-6 170 RED	2205420150
PrimAX 15-6 130 RED	2205300150
PrimAX 25-6 130 RED	2205340150



PrimAX 25-6 180 RED

DN 25
L = 180 mm
G = 1 1/2"

PrimAX 32-6 170 RED

DN 32
L = 170 mm
G = 2"

PrimAX 25-6 130 RED

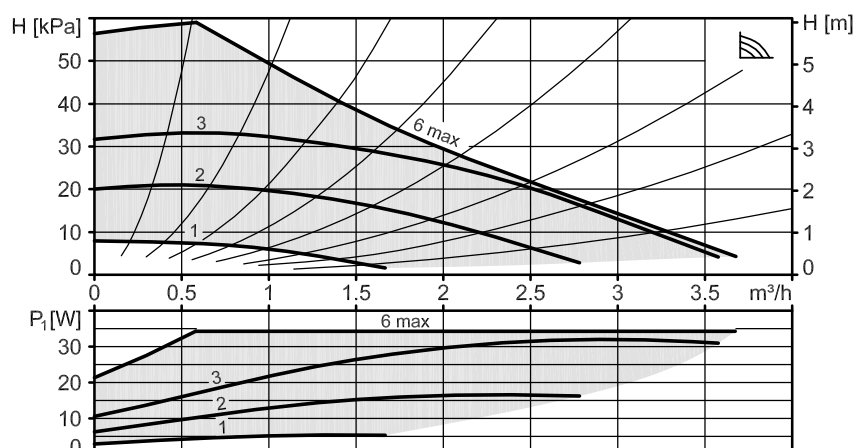
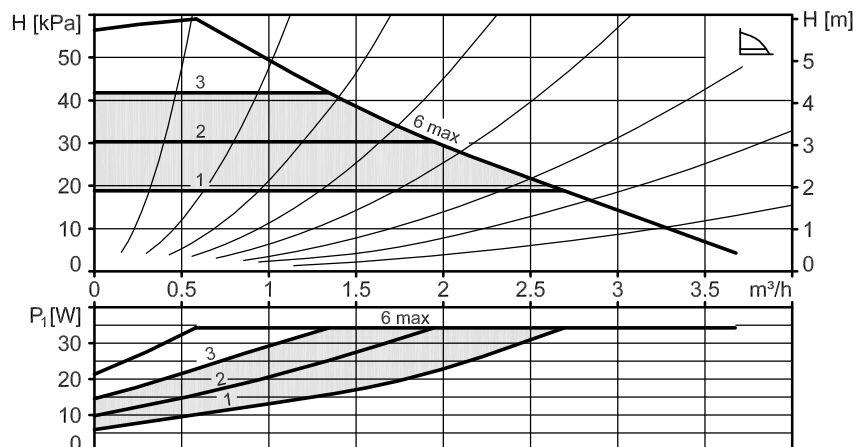
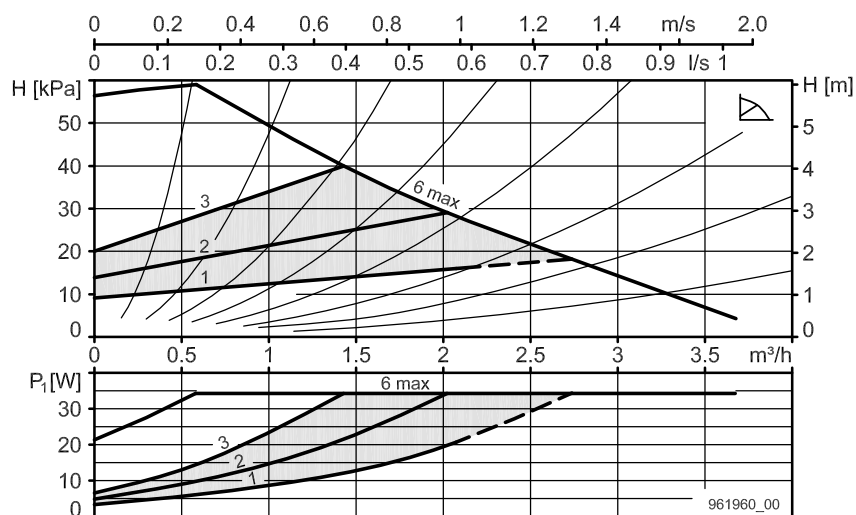
DN 25
L = 130 mm
G = 1 1/2"

PrimAX 32-6 180 RED

DN 32
L = 180 mm
G = 2"

PrimAX 15-6 130 RED

DN 15
L = 130 mm
G = 1"



PrimAX 25-8 180 RED

PrimAX 32-8 180 RED

PrimAX 32-8 170 RED

PrimAX 15-8 130 RED

PrimAX 25-8 130 RED

Nominal width	DN 25 DN 32 DN 15
Discharge head max.	7.5 m
Installation length	180 170 130 mm
Threaded connector	G 1 1/2" G 2" G 1"
Operating pressure max.	10 bar
Media temperature min.	+ 2°C
Media temperature max.	+110°C
Ambient temperature	0°C bis 40°C
Net weight	1.8 kg
Gross weight	2.0 kg

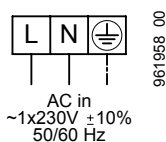
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	3-50 W
Rated current	0.03-0.41 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 90°C water temperature	0.28 bar
at 110°C water temperature	1.08 bar
for every ± 100 m altitude	0.01 bar

Connction diagram

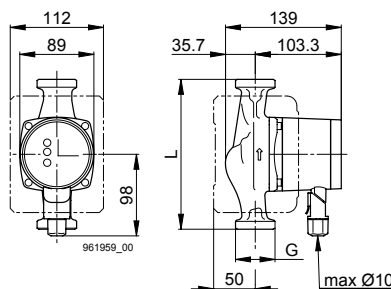


L, N, PE Power supply

Included in the scope of delivery

- Heat insulation shell
- Biral Connector and angled connector
- AFM seal

Type	Article number Biral
PrimAX 25-8 180 RED	2205390150
PrimAX 32-8 180 RED	2205470150
PrimAX 32-8 170 RED	2205430150
PrimAX 15-8 130 RED	2205310150
PrimAX 25-8 130 RED	2205350150



PrimAX 25-8 180 RED

DN 25
L = 180 mm
G = 1 1/2"

PrimAX 32-8 170 RED

DN 32
L = 170 mm
G = 2"

PrimAX 25-8 130 RED

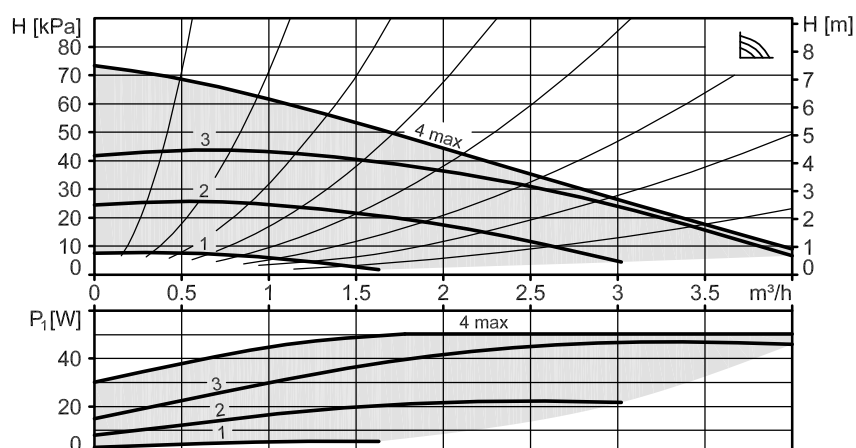
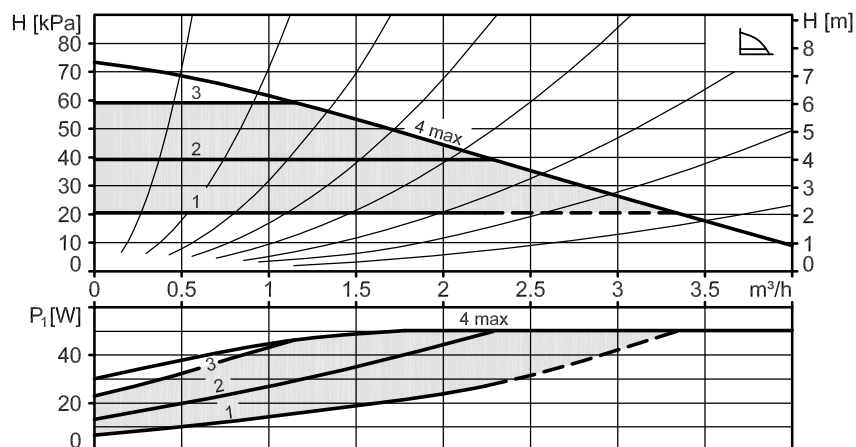
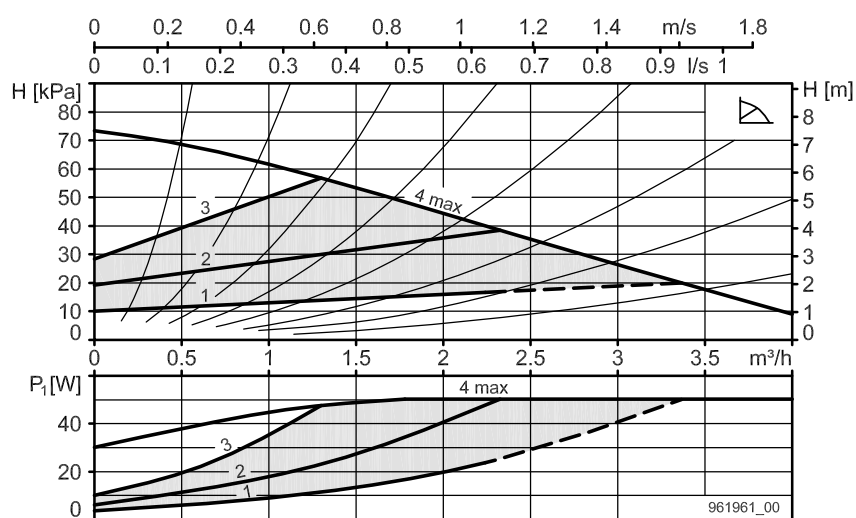
DN 25
L = 130 mm
G = 1 1/2"

PrimAX 32-8 180 RED

DN 32
L = 180 mm
G = 2"

PrimAX 15-8 130 RED

DN 15
L = 130 mm
G = 1"





Premium heating circulation pumps

Modula... RED

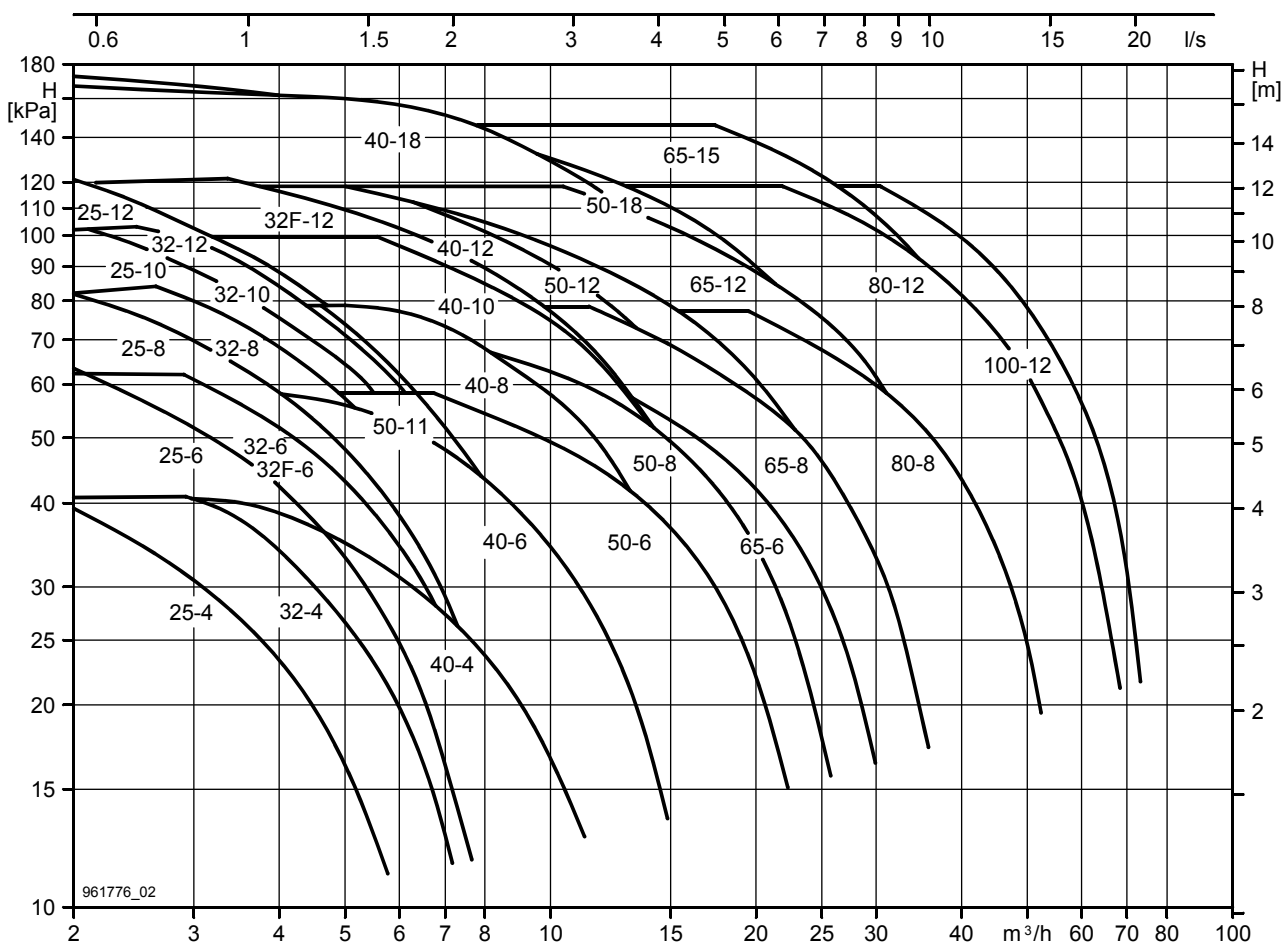
Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.	EEl-value
		DN	m	mm		bar	
Modula 25-4 180 RED	2204520350	25	4	180	G 1½"	10	≤0.19
Modula 25-6 180 RED	2204530350	25	6	180	G 1½"	10	≤0.19
Modula 25-8 180 RED	2204540350	25	8	180	G 1½"	10	≤0.19
Modula 25-10 180 RED	2204550350	25	10	180	G 1½"	10	≤0.19
Modula 25-12 180 RED	2204560350	25	12	180	G 1½"	10	≤0.19
Modula 32-4 170 RED	2204570350	32	4	170	G 2"	10	≤0.18
Modula 32-6 170 RED	2204580350	32	6	170	G 2"	10	≤0.18
Modula 32-8 170 RED	2204590350	32	8	170	G 2"	10	≤0.18
Modula 32-10 170 RED	2204600350	32	10	170	G 2"	10	≤0.18
Modula 32-12 170 RED	2204610350	32	12	170	G 2"	10	≤0.18
Modula 32-4 180 RED	2204620350	32	4	180	G 2"	10	≤0.18
Modula 32-6 180 RED	2204630350	32	6	180	G 2"	10	≤0.18
Modula 32-8 180 RED	2204640350	32	8	180	G 2"	10	≤0.18
Modula 32-10 180 RED	2204650350	32	10	180	G 2"	10	≤0.18
Modula 32-12 180 RED	2204660350	32	12	180	G 2"	10	≤0.18

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.	EEl-value
		DN	m	mm		bar	
Modula 32F-6 220 RED	2204680350	32	6	220	PN 6	6	≤0.18
Modula 32F-12 220 RED	2200700350	32	12	220	PN 6-16	16	≤0.18
Modula 40-4 220 RED	2200730350	40	4	220	PN 6-16	16	≤0.18
Modula 40-6 220 RED	2200740350	40	6	220	PN 6-16	16	≤0.19
Modula 40-8 220 RED	2200750350	40	8	220	PN 6-16	16	≤0.19
Modula 40-10 220 RED	2200760350	40	10	220	PN 6-16	16	≤0.19
Modula 40-12 250 RED	2200770350	40	12	250	PN 6-16	16	≤0.18
Modula 40-18 250 RED	2200790350	40	18	250	PN 6-16	16	≤0.18
Modula 50-6 240 RED	2200810350	50	6	240	PN 6-16	16	≤0.19
Modula 50-8 240 RED	2200820350	50	8	240	PN 6-16	16	≤0.18
Modula 50-11 220 RED	2204730350	50	11	220	PN 6-16	16	≤0.19
Modula 50-12 270 RED	2200840350	50	12	270	PN 6-16	16	≤0.18
Modula 50-18 270 RED	2200860350	50	18	270	PN 6-16	16	≤0.17
Modula 65-6 270 RED	2200880350	65	6	270	PN 6-16	16	≤0.17
Modula 65-8 270 RED	2200890350	65	8	270	PN 6-16	16	≤0.17
Modula 65-12 340 RED	2200970350	65	12	340	PN 6-16	16	≤0.17
Modula 65-15 340 RED	2200980350	65	15	340	PN 6-16	16	≤0.17
Modula 80-8 360 RED PN6	2201010350	80	8	360	PN 6	6	≤0.17
Modula 80-8 360 RED PN10/16	2201012350	80	8	360	PN 10/16	16	≤0.17
Modula 80-12 360 RED PN6	2201030350	80	12	360	PN 6	6	≤0.17
Modula 80-12 360 RED PN10/16	2201032350	80	12	360	PN 10/16	16	≤0.17
Modula 100-12 450 RED PN6	2201090350	100	12	450	PN 6	6	≤0.17
Modula 100-12 450 RED PN10/16	2201092350	100	12	450	PN 10/16	16	≤0.17

Order reference

	Modula	(-D)	32	(F)	-6	220	RED
Series							
Single pump							
Twin pump (-D)							
Nominal width (DN) [mm]							
Pipeline connection							
Flange (F)							
Discharge head max. [m]							
Installation height [mm]							
Field of application							
Heating (RED)							
Cold water (GREEN)							
Service water (BLUE)							



ModuA 25-4 180 RED

Nominal width	DN 25
Discharge head max.	4 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.5 kg

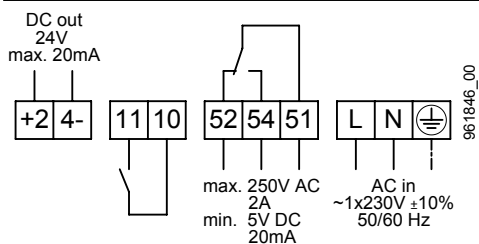
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-52 W
Rated current	0.1-0.39 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

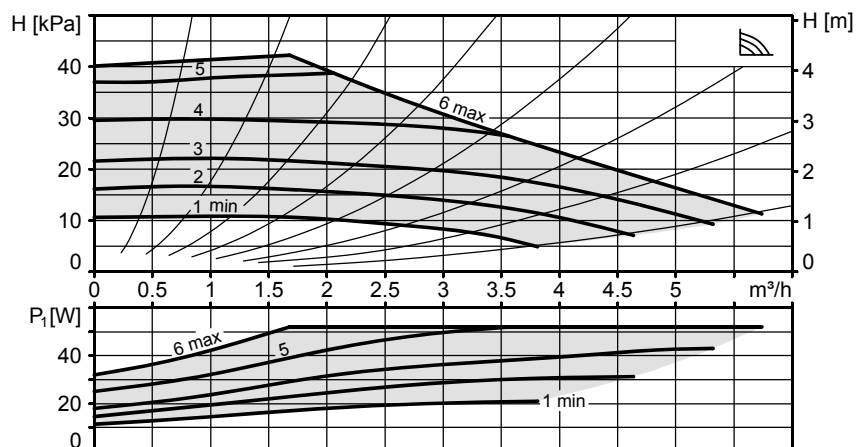
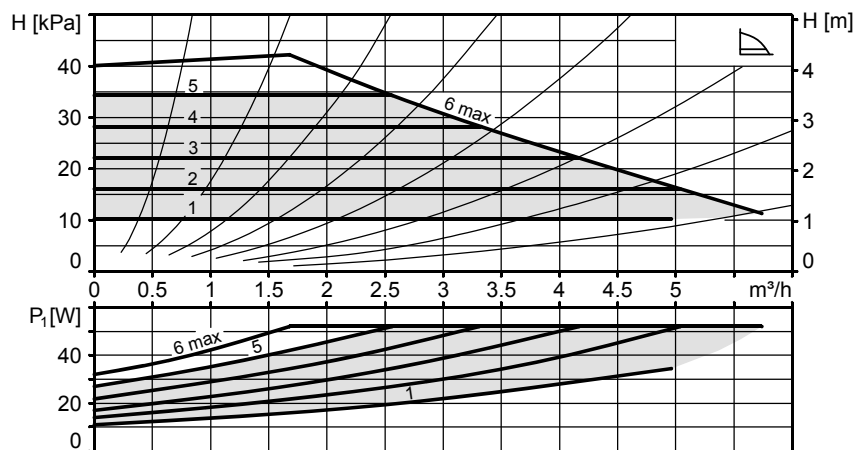
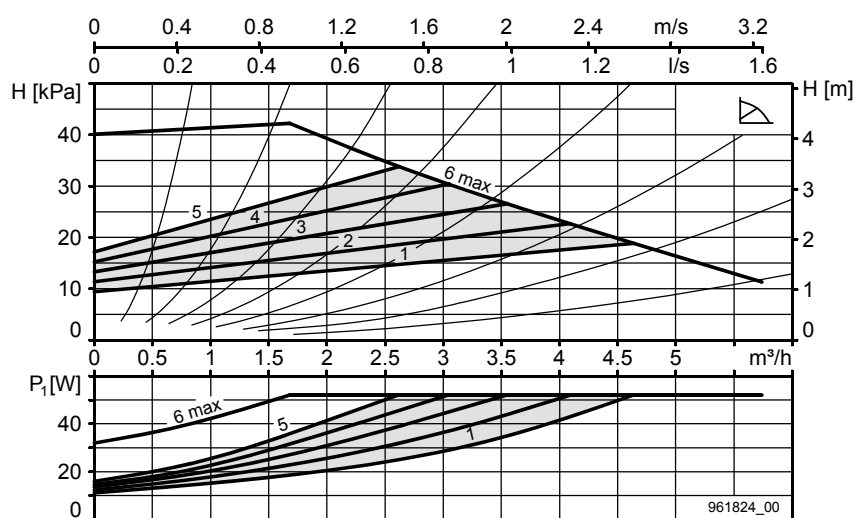
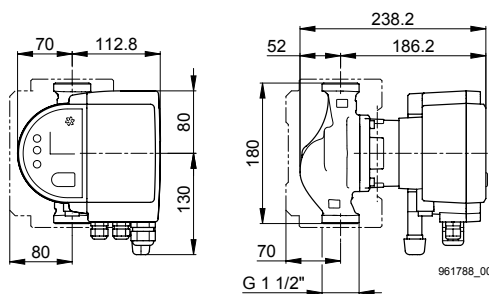
Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Type	Article number Biral
ModuA 25-4 180 RED	2204520350



ModuA 25-6 180 RED

Nominal width	DN 25
Discharge head max.	6 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.5 kg

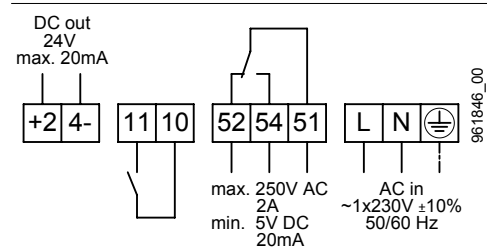
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	12-86 W
Rated current	0.1-0.64 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

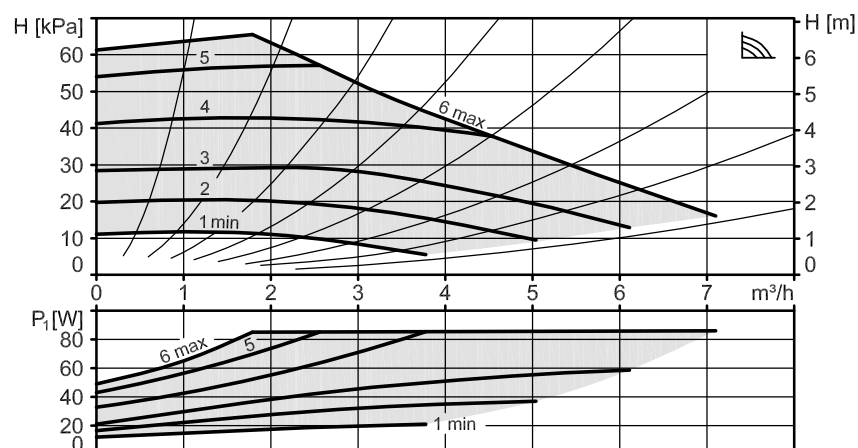
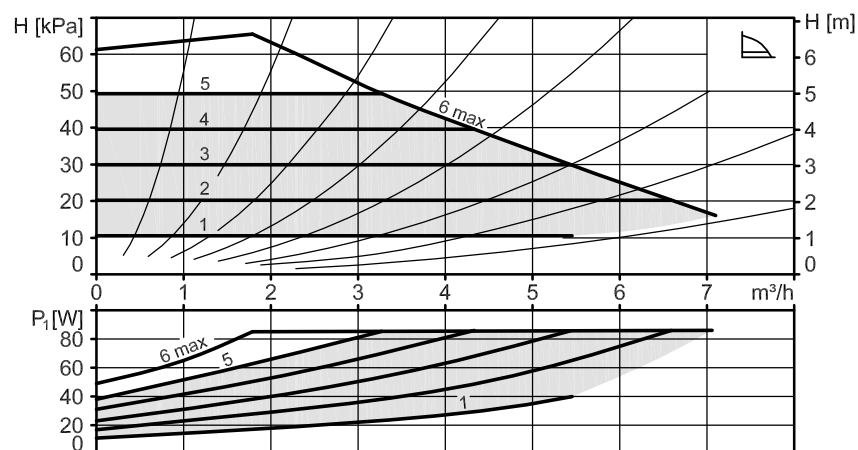
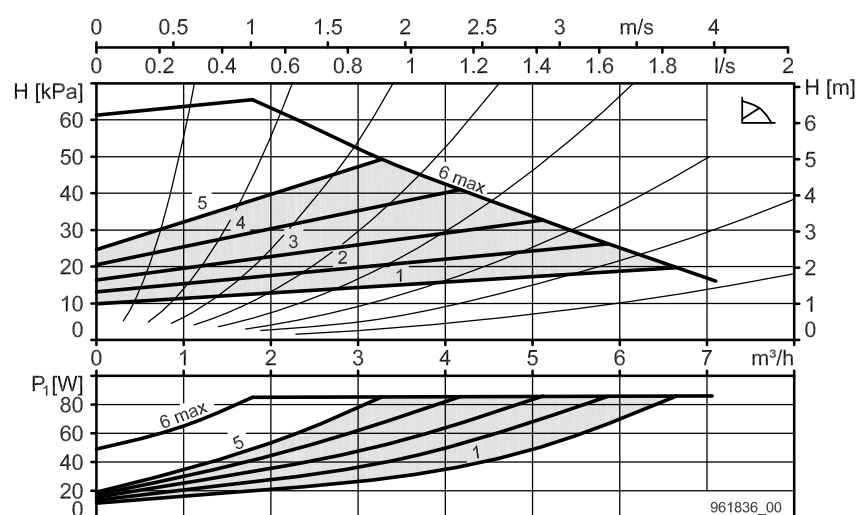
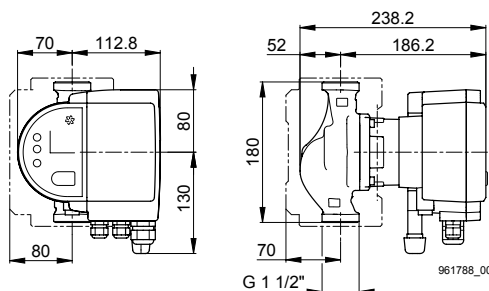
Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Type	Article number Biral
ModuA 25-6 180 RED	2204530350



ModuA 25-8 180 RED

Nominal width	DN 25
Discharge head max.	8 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.5 kg

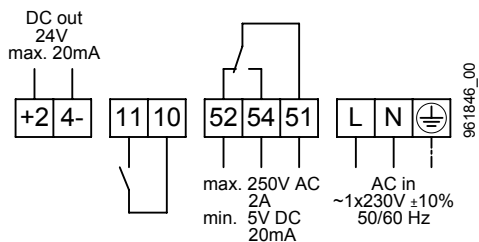
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-120 W
Rated current	0.1-0.91 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

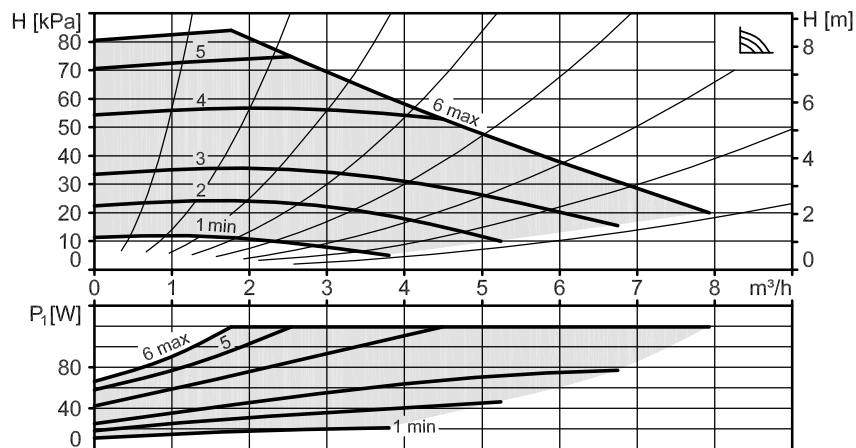
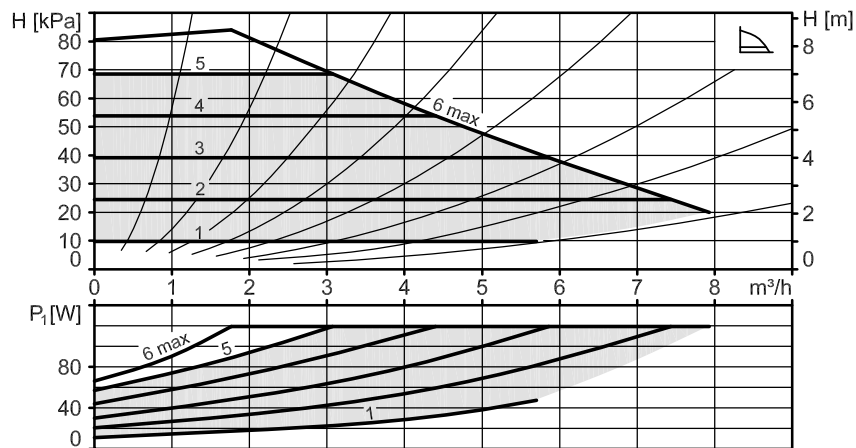
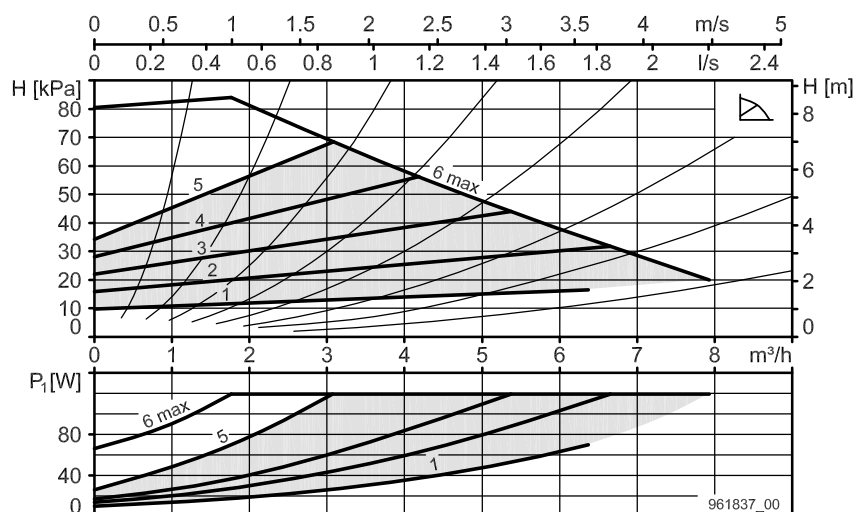
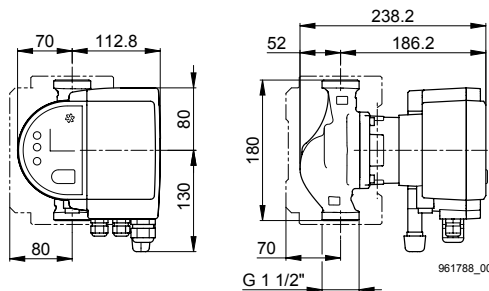
Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Type	Article number Biral
ModuA 25-8 180 RED	2204540350



ModuA 25-10 180 RED

Nominal width	DN 25
Discharge head max.	10 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.5 kg

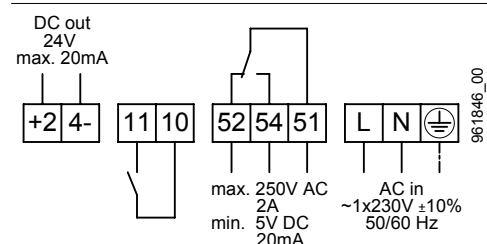
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-158 W
Rated current	0.1-1.24 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

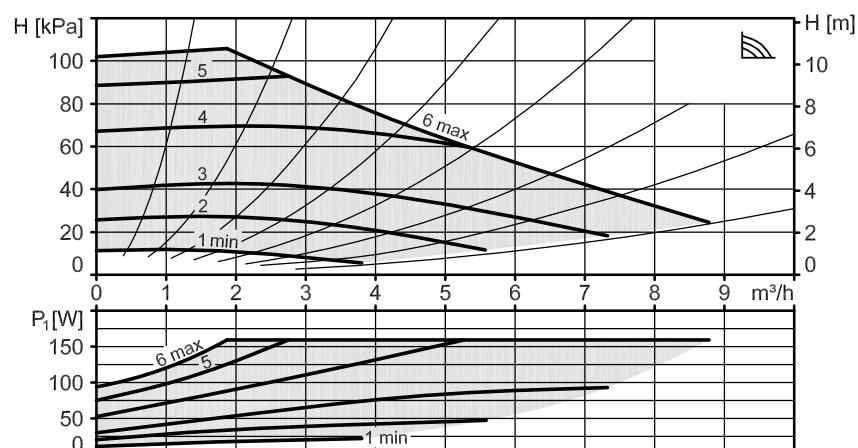
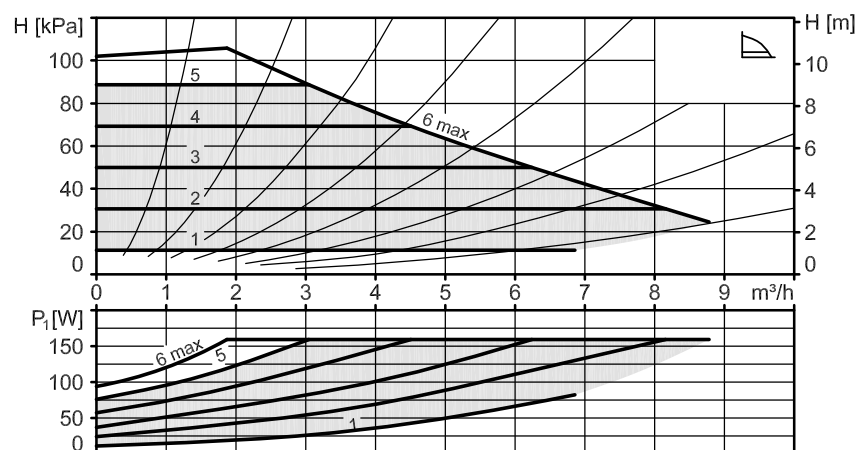
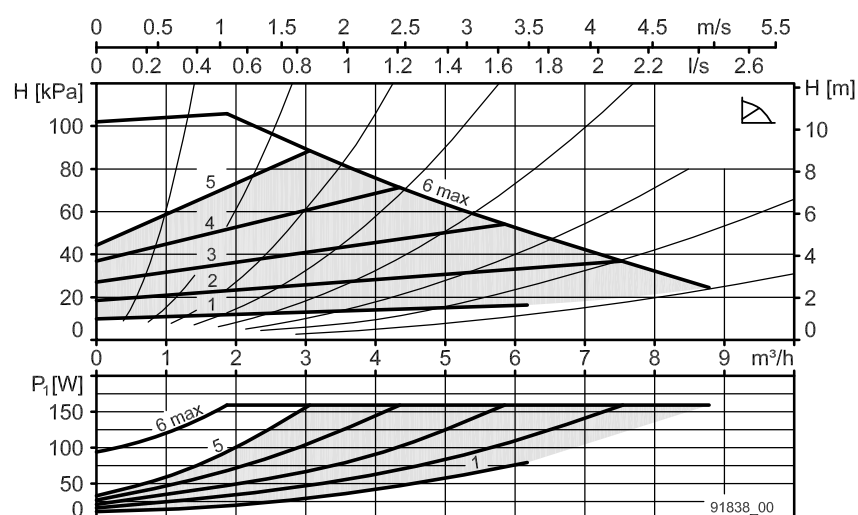
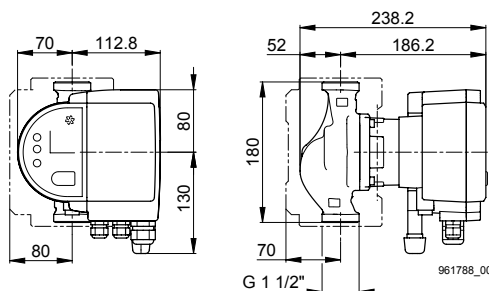
Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Type	Article number Biral
ModuA 25-10 180 RED	2204550350



ModuA 25-12 180 RED

Nominal width	DN 25
Discharge head max.	12 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.5 kg

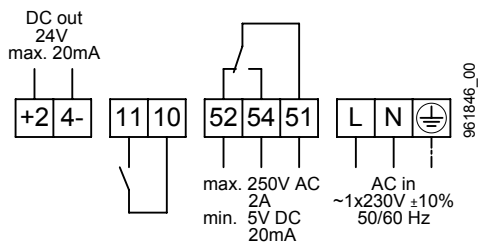
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-188 W
Rated current	0.1-1.47 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

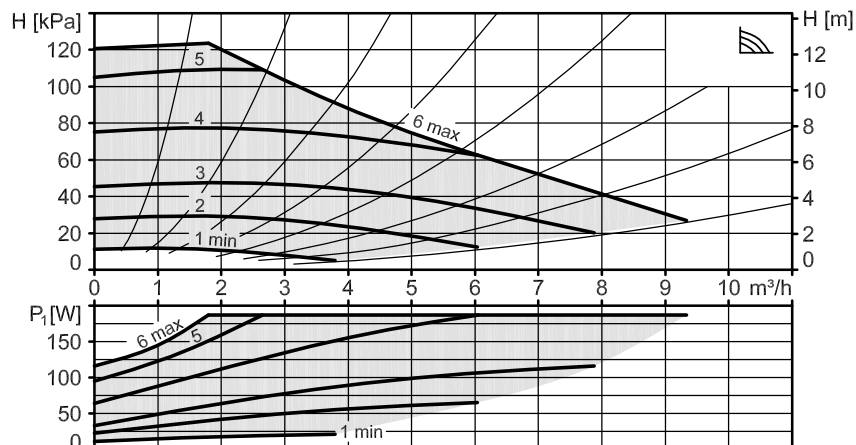
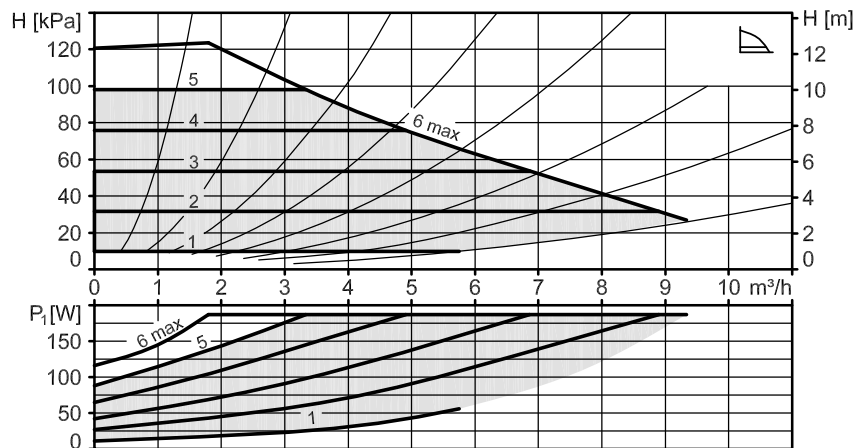
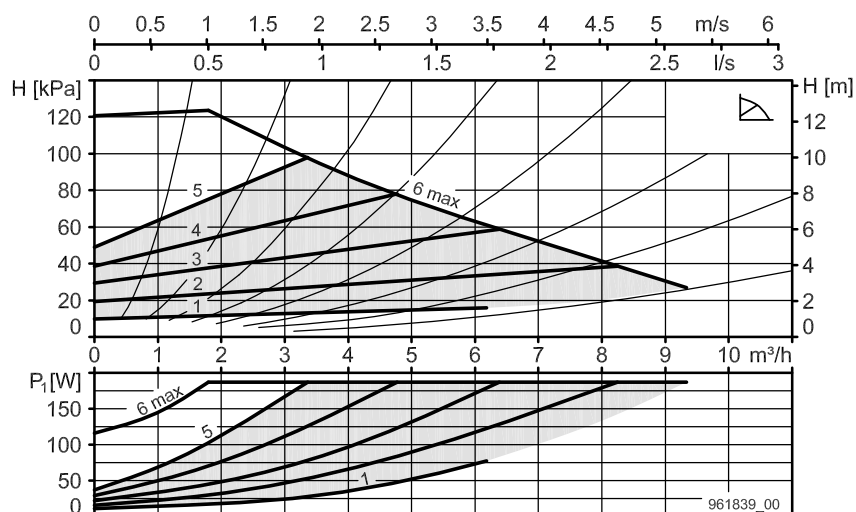
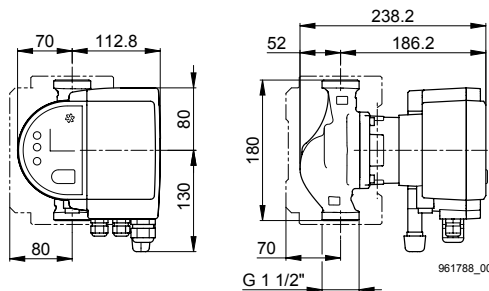
Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Type	Article number Biral
ModuA 25-12 180 RED	2204560350



ModulA 32-4 180 RED

ModulA 32-4 170 RED

Nominal width	DN 32
Discharge head max.	4 m
Installation length	180 170 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.7 kg

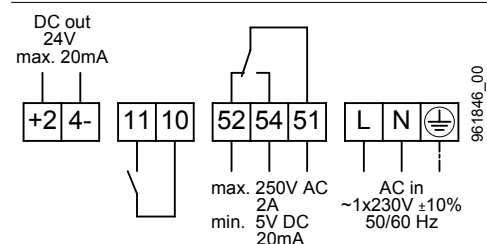
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-70 W
Rated current	0.1-0.5 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

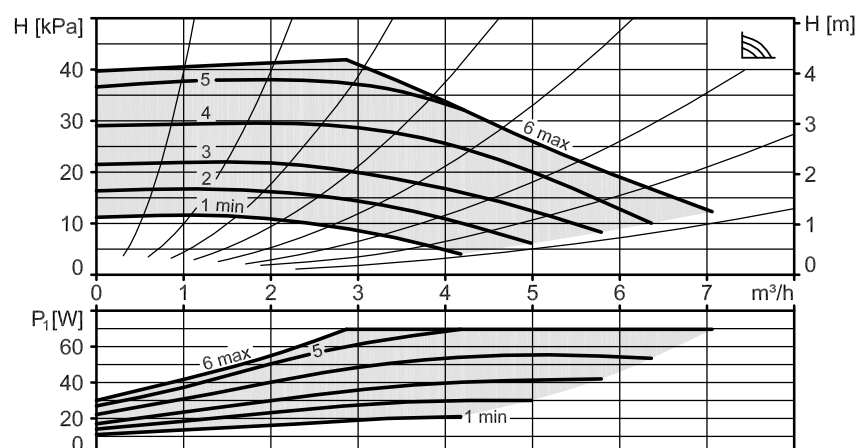
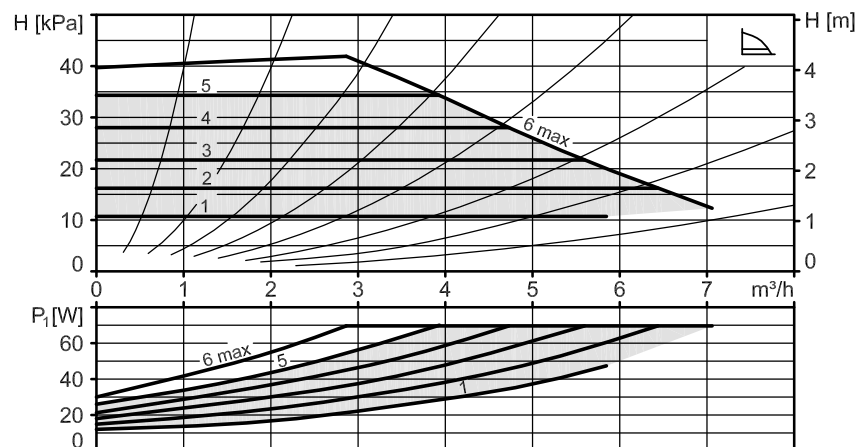
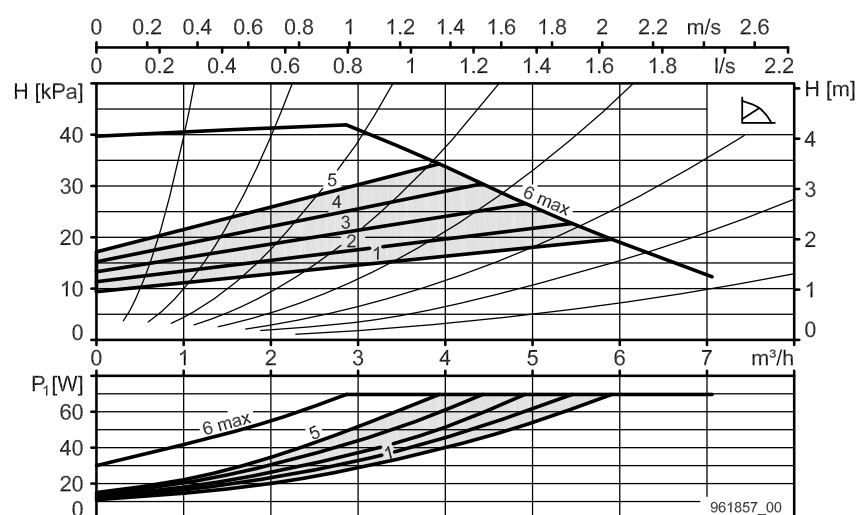
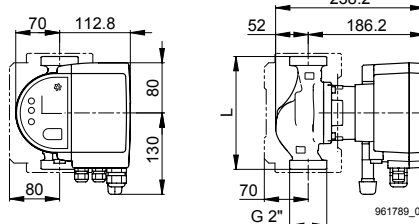
Type	Article number Biral
ModulA 32-4 180 RED	2204620350
ModulA 32-4 170 RED	2204570350

ModulA 32-4 180 RED

DN 32
L = 180 mm

ModulA 32-4 170 RED

DN 32
L = 170 mm



ModulA 32-6 180 RED

ModulA 32-6 170 RED

Nominal width	DN 32
Discharge head max.	6 m
Installation length	180 170 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.7 kg

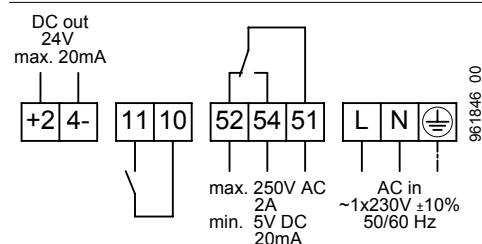
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-105 W
Rated current	0.1-0.79 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

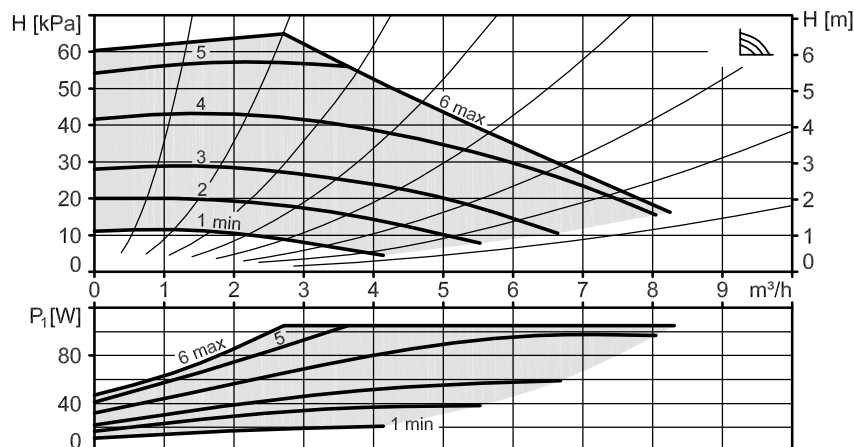
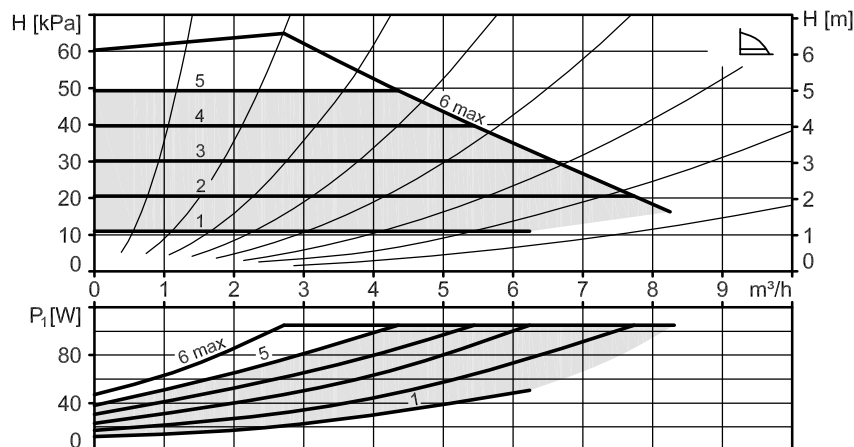
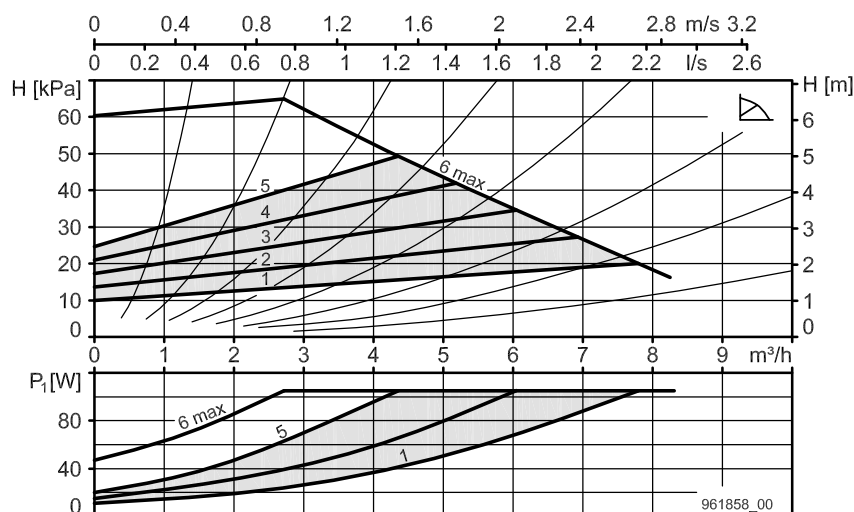
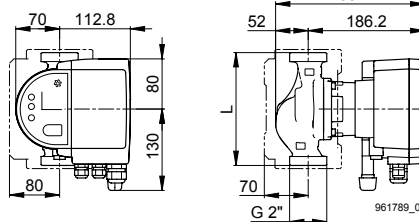
Type	Article number Biral
ModulA 32-6 180 RED	2204630350
ModulA 32-6 170 RED	2204580350

ModulA 32-6 180 RED

DN 32
L = 180 mm

ModulA 32-6 170 RED

DN 32
L = 170 mm



ModulA 32-8 180 RED

ModulA 32-8 170 RED

Nominal width	DN 32
Discharge head max.	8 m
Installation length	180 170 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.7 kg

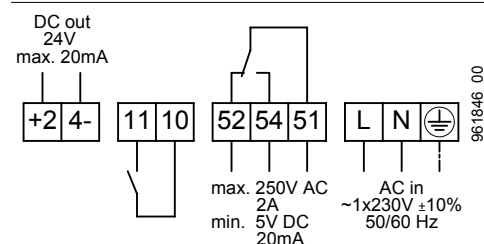
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-139 W
Rated current	0.1-1.03 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

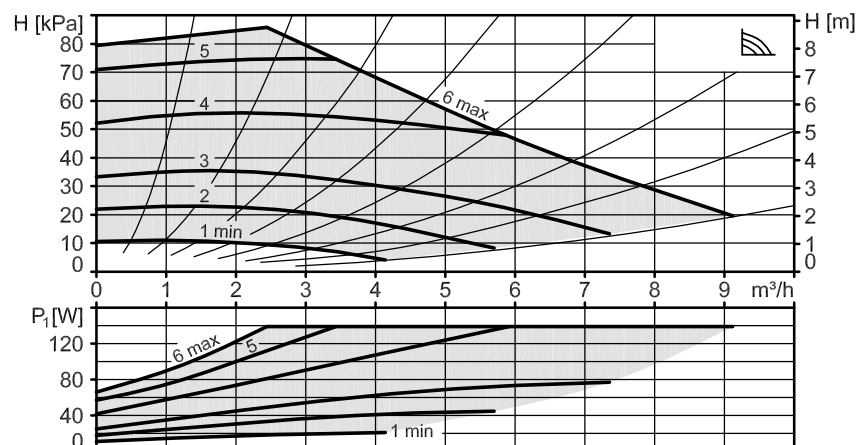
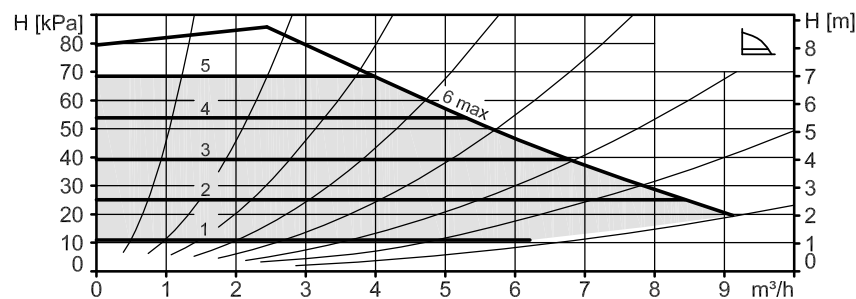
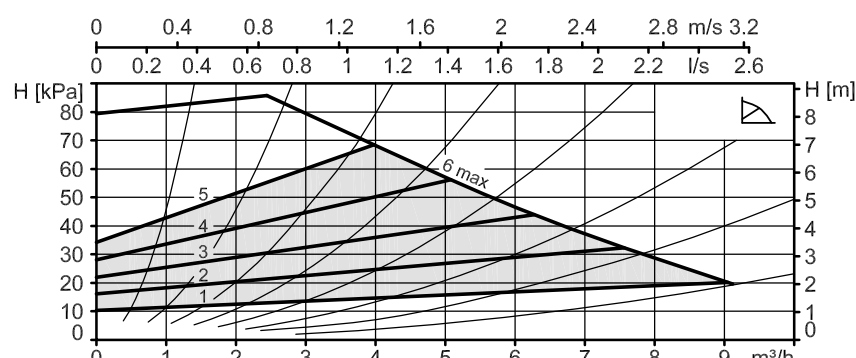
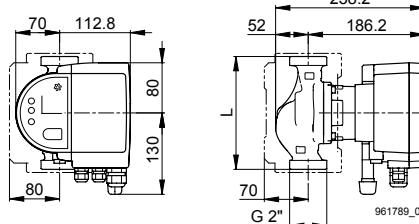
Type	Article number Biral
ModulA 32-8 180 RED	2204640350
ModulA 32-8 170 RED	2204590350

ModulA 32-8 180 RED

DN 32
L = 180 mm

ModulA 32-8 170 RED

DN 32
L = 170 mm



ModulA 32-10 180 RED

ModulA 32-10 170 RED

Nominal width	DN 32
Discharge head max.	10 m
Installation length	180 170 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.7 kg

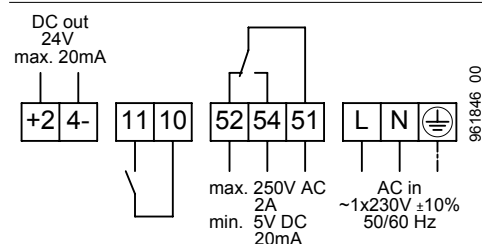
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-175 W
Rated current	0.1-1.35 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Type	Article number Biral
ModulA 32-10 180 RED	2204650350
ModulA 32-10 170 RED	2204600350

ModulA 32-10 180 RED

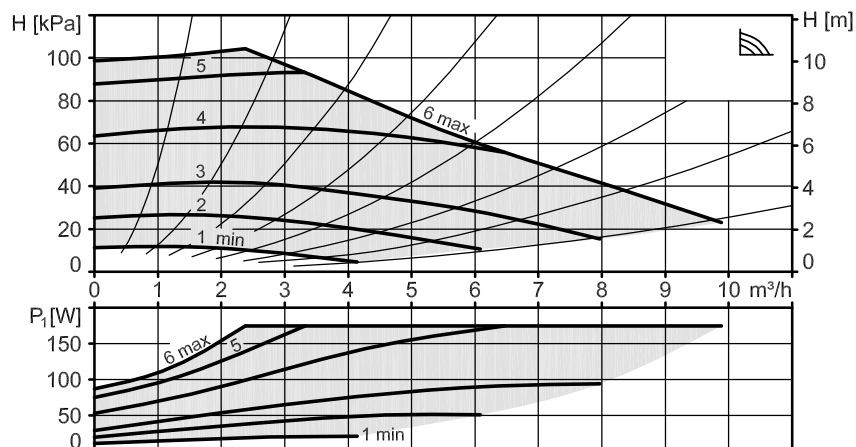
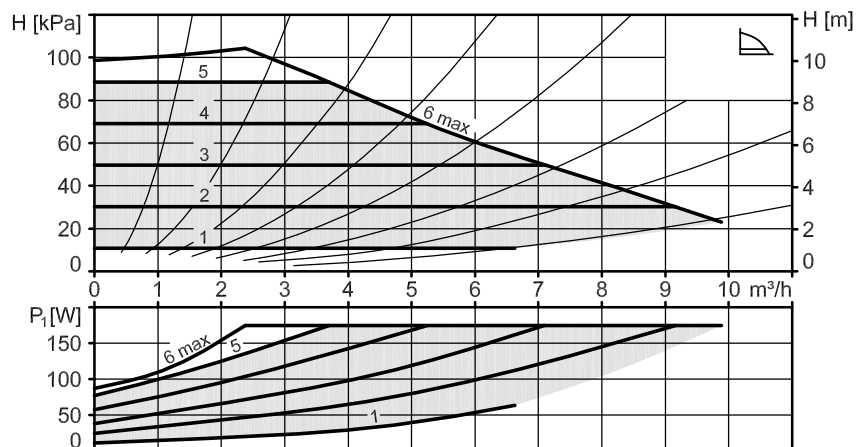
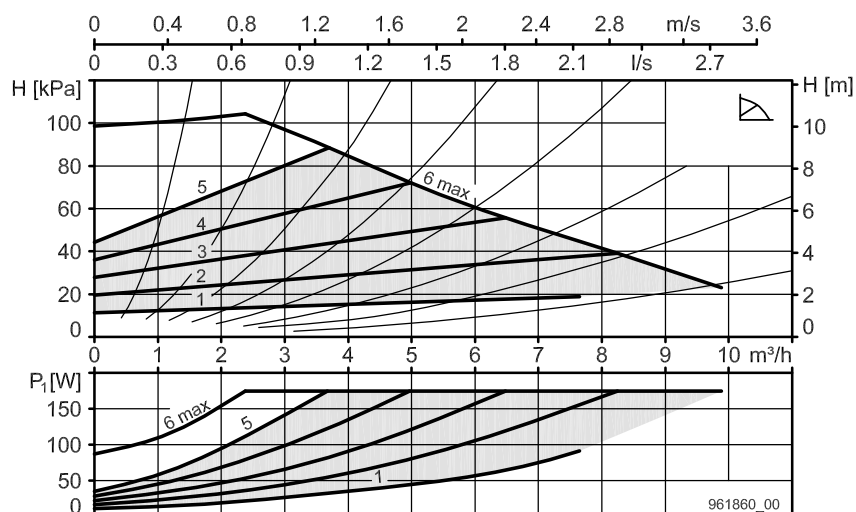
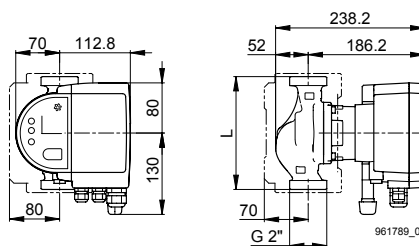
DN 32

L = 180 mm

ModulA 32-10 170 RED

DN 32

L = 170 mm



ModulA 32-12 180 RED

ModulA 32-12 170 RED

Nominal width	DN 32
Discharge head max.	12 m
Installation length	180 170 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	4.7 kg

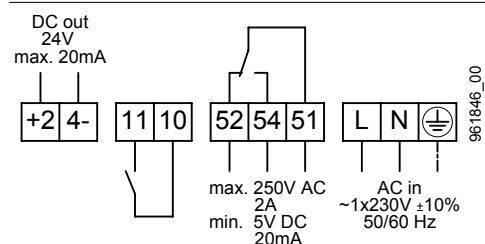
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-187 W
Rated current	0.1-1.45 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.92 bar
at 95°C water temperature	1.32 bar
at 110°C water temperature	1.92 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

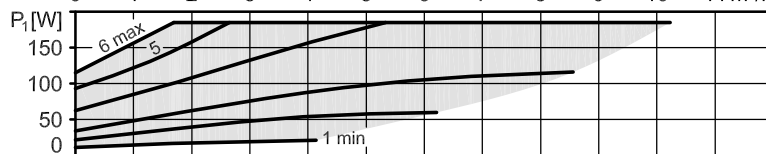
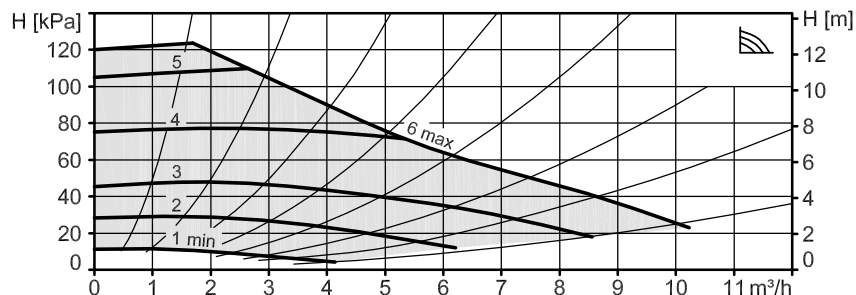
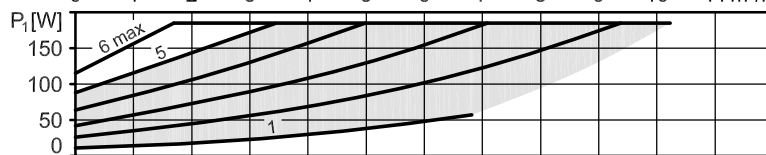
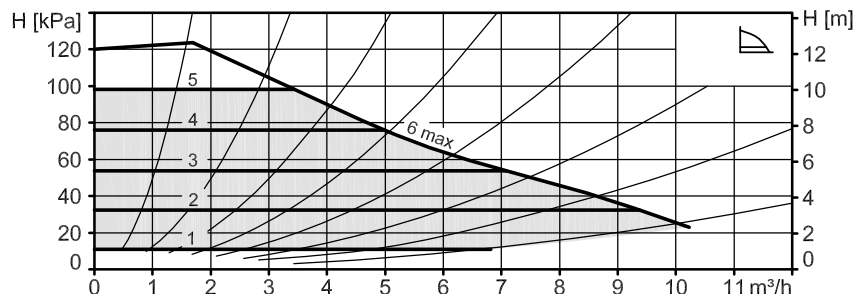
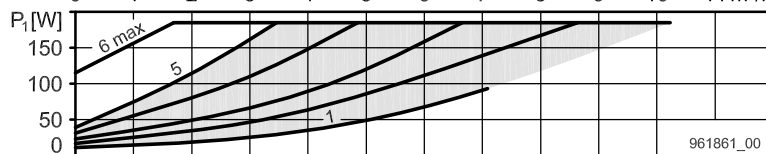
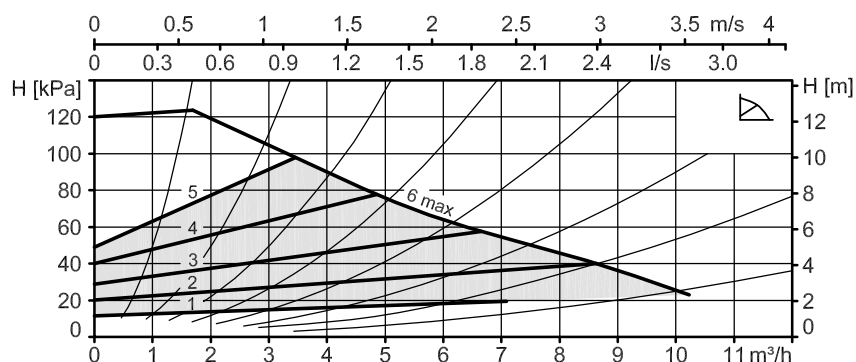
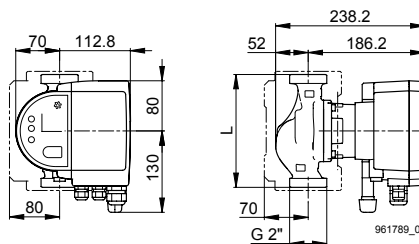
Type	Article number Biral
ModulA 32-12 180 RED	2204660350
ModulA 32-12 170 RED	2204610350

ModulA 32-12 180 RED

DN 32
L = 180 mm

ModulA 32-12 170 RED

DN 32
L = 170 mm



ModuA 32F-6 220 RED

Nominal width	DN 32
Discharge head max.	6 m
Installation length	220 mm
Flange connection	PN 6
Operating pressure max.	6 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	7.0 kg

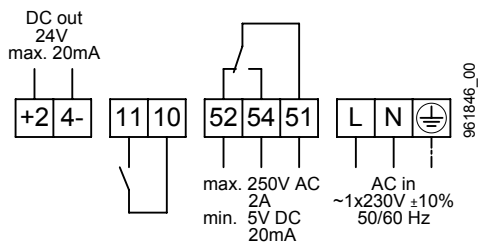
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-105 W
Rated current	0.1-0.79 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

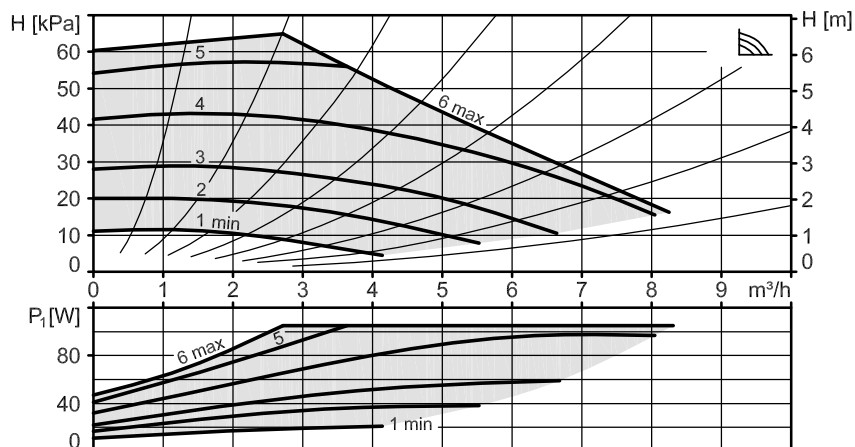
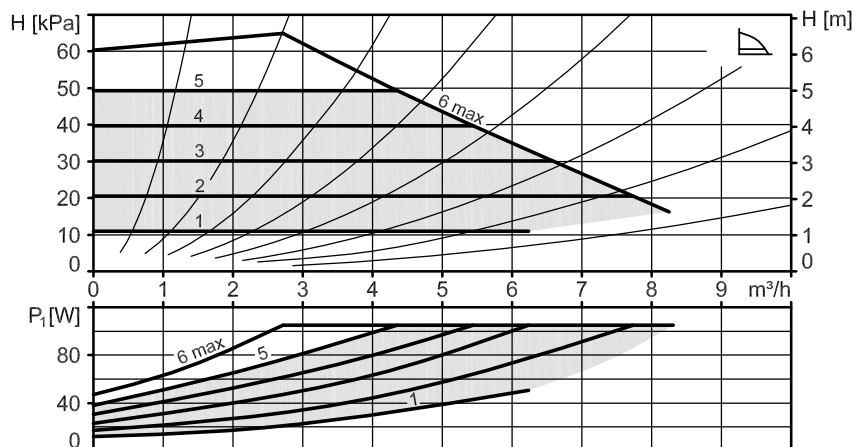
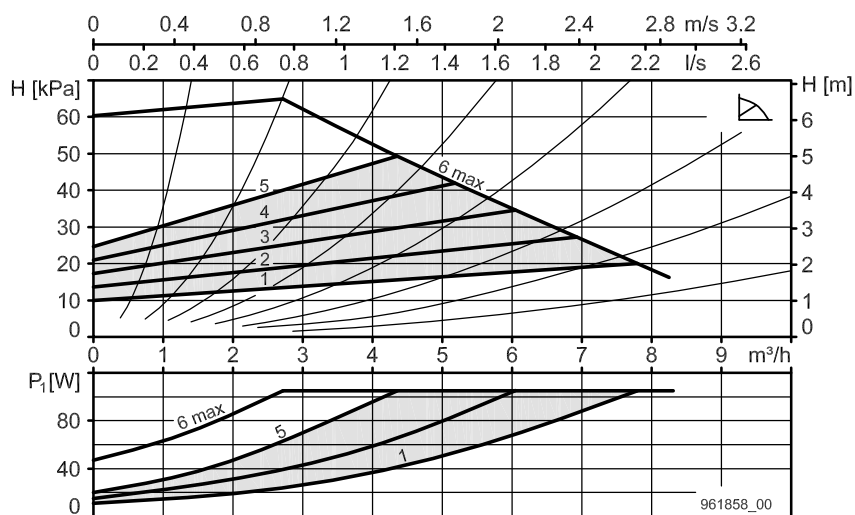
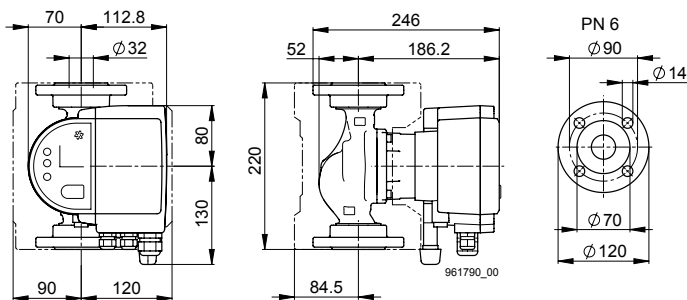
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Type	Article number Biral
ModuA 32F-6 220 RED	2204680350



ModuA 32F-12 220 RED

Nominal width	DN 32
Discharge head max.	12 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	15.3 kg

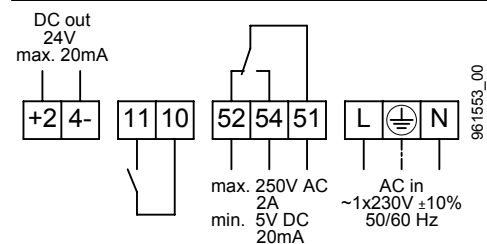
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	16-328 W
Rated current	0.17-1.50 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.92 bar
at 95°C water temperature	1.32 bar
at 110°C water temperature	1.92 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

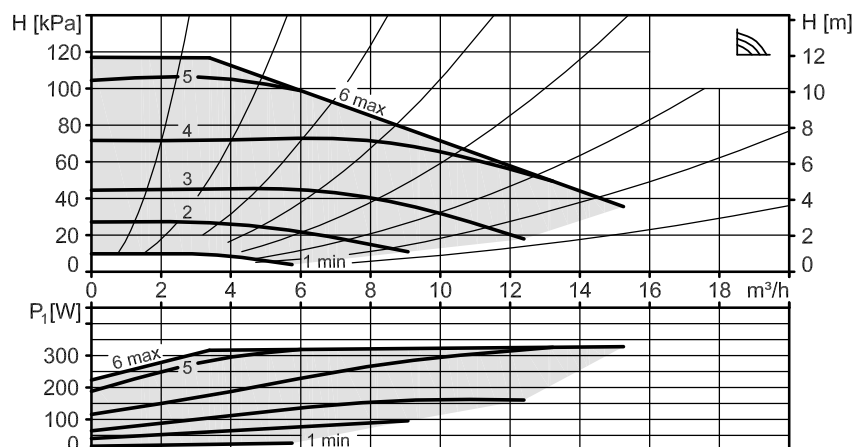
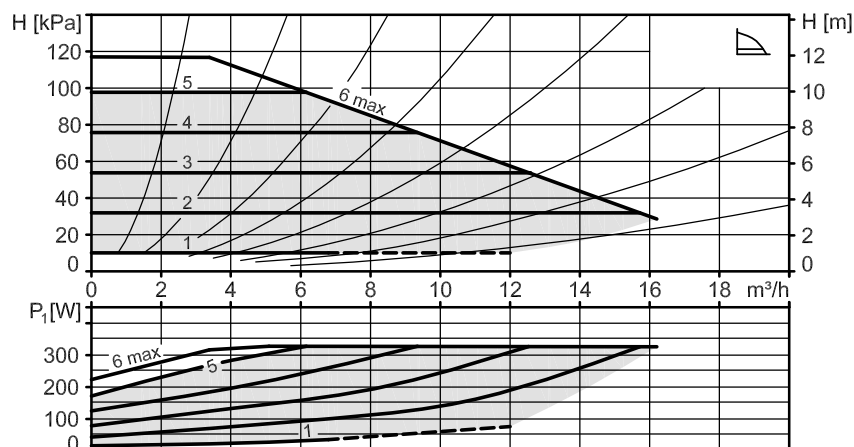
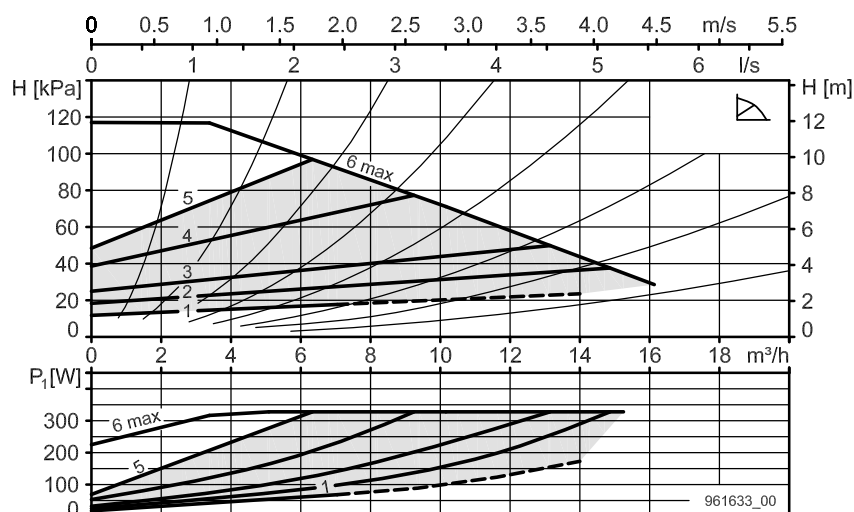
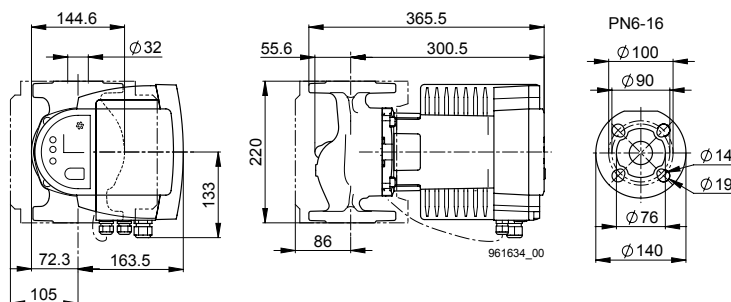
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 32F-12 220 RED	2200700350



ModuA 40-4 220 RED

Nominal width	DN 40
Discharge head max.	4 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	9.2 kg

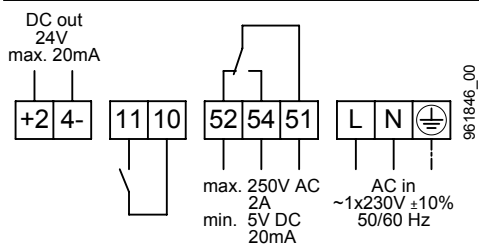
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	15-91 W
Rated current	0.13-0.68 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

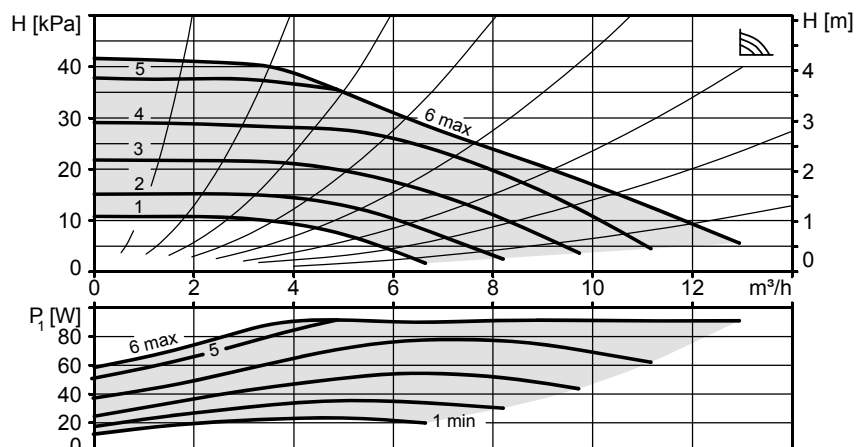
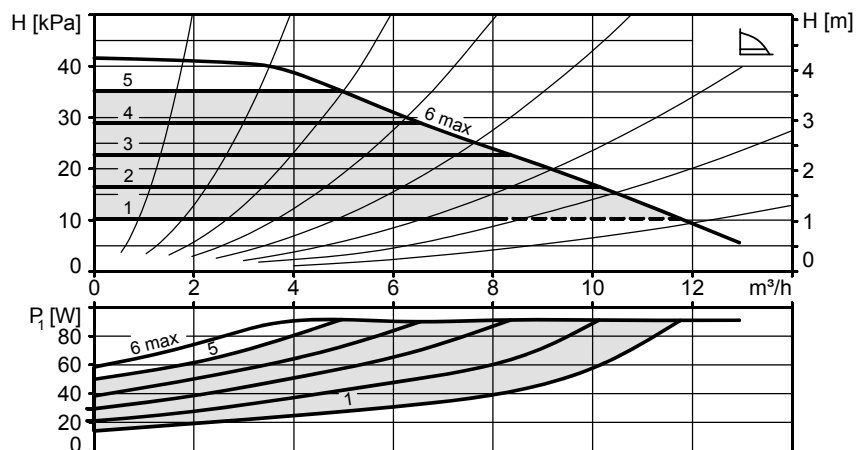
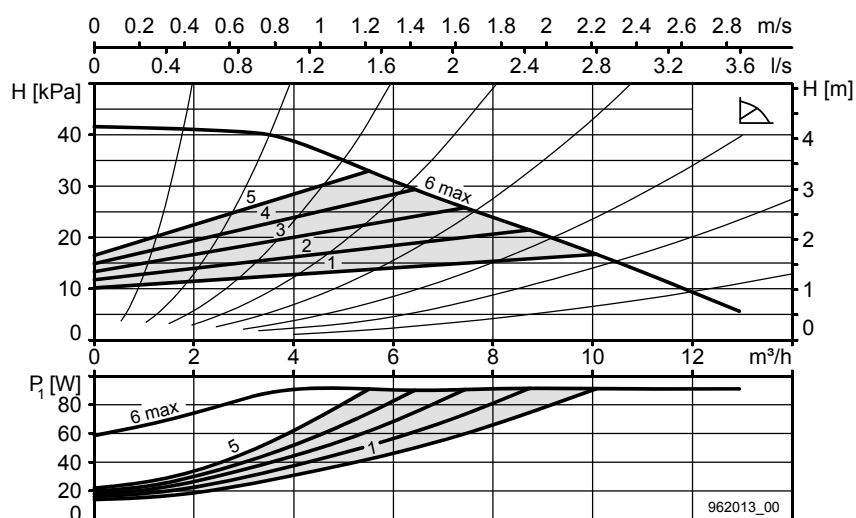
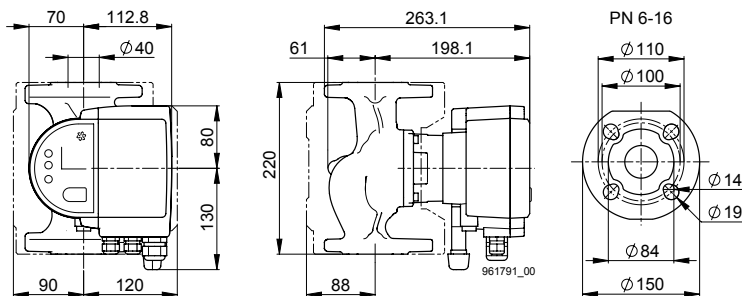
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-4 220 RED	2200730350



ModuA 40-6 220 RED

Nominal width	DN 40
Discharge head max.	6 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	9.2 kg

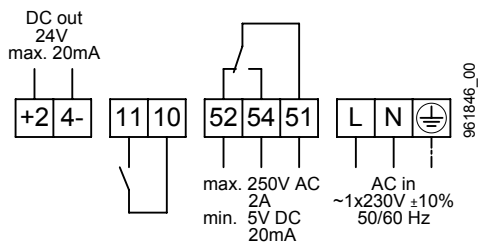
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	16-171 W
Rated current	0.13-1.34 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.37 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

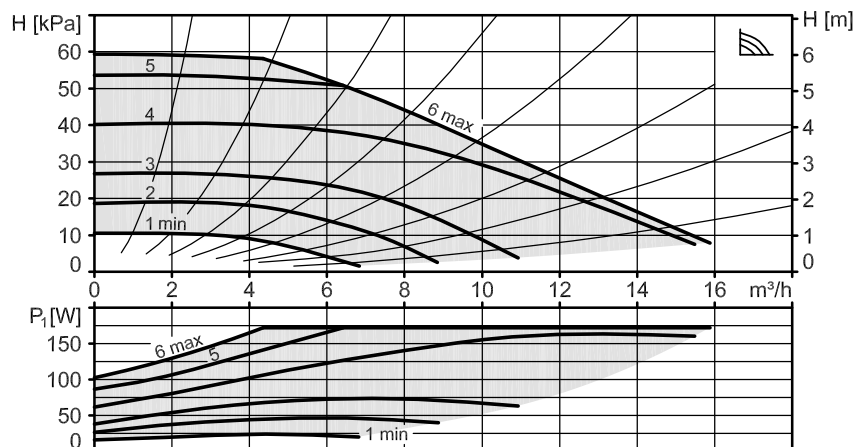
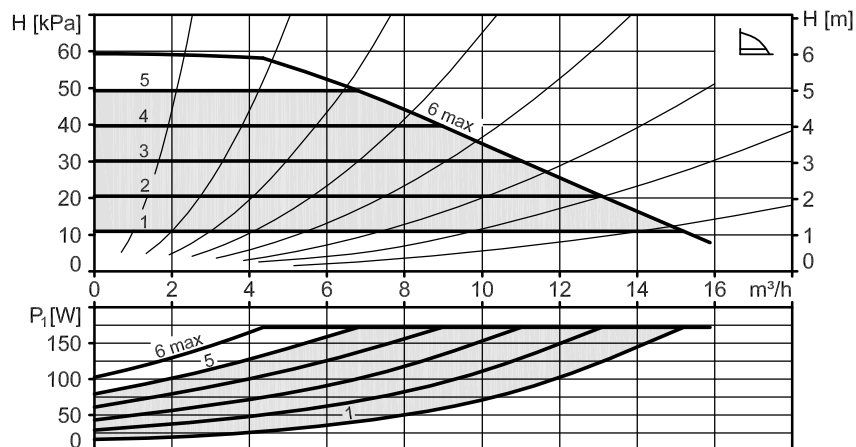
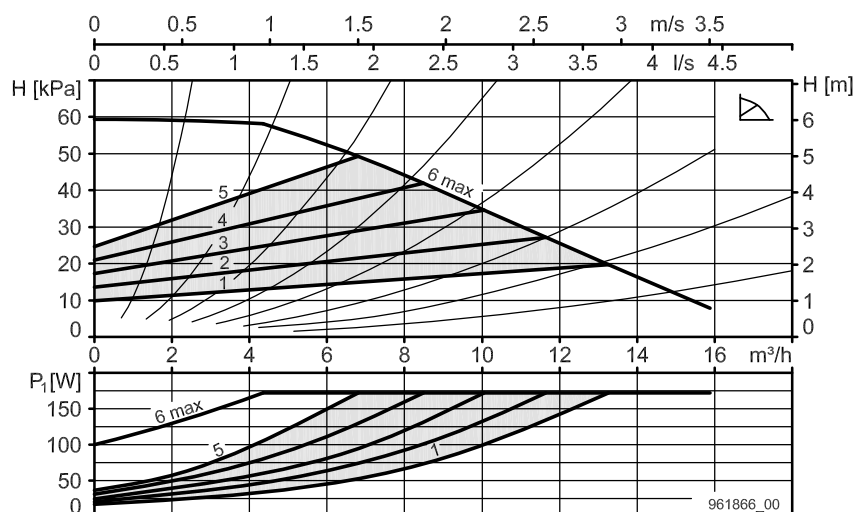
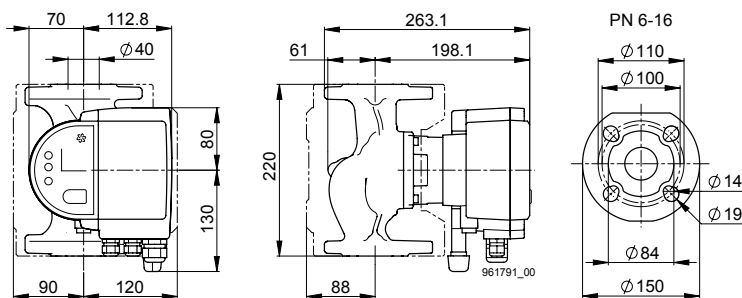
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-6 220 RED	2200740350



ModuA 40-8 220 RED

Nominal width	DN 40
Discharge head max.	8 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	16.3 kg

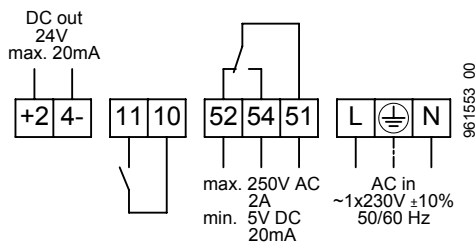
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	20-268 W
Rated current	0.20-1.21 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.52 bar
at 110°C water temperature	1.12 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

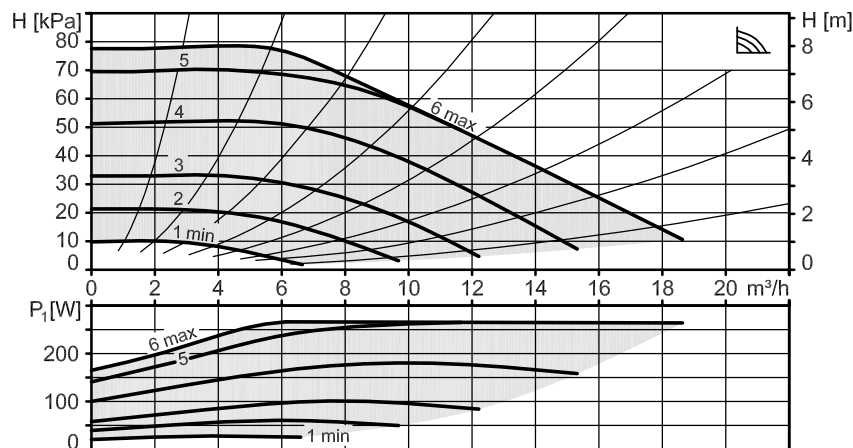
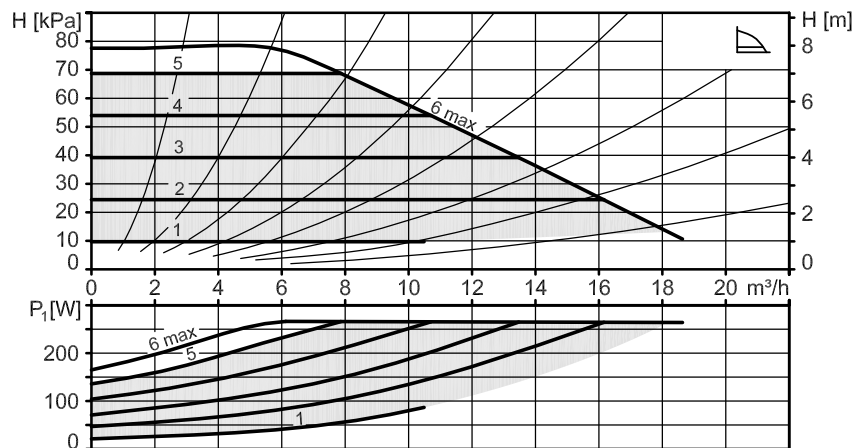
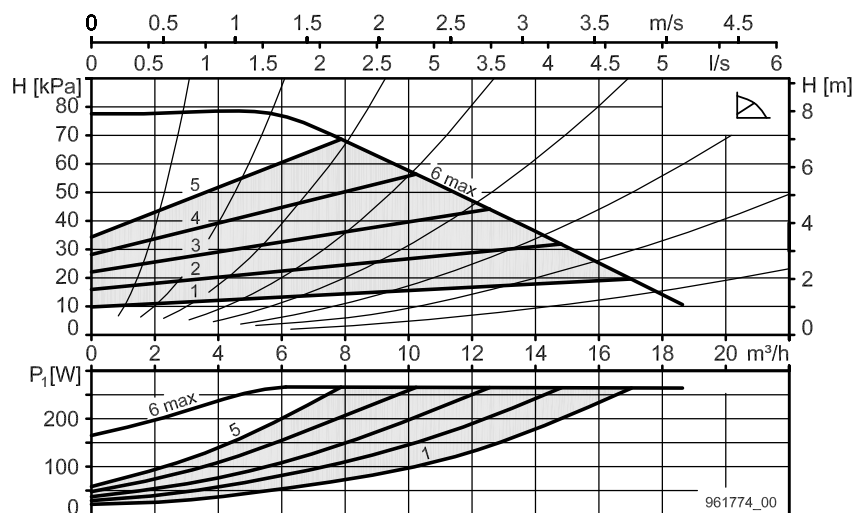
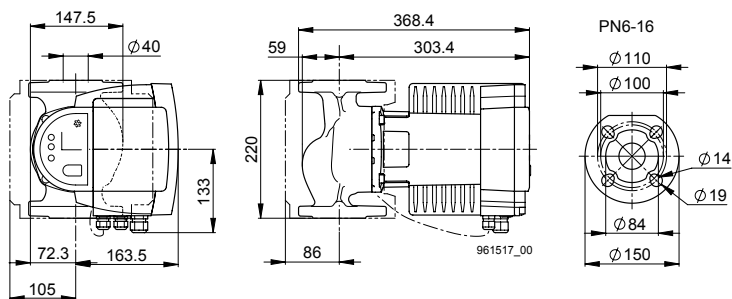
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-8 220 RED	2200750350



ModuA 40-10 220 RED

Nominal width	DN 40
Discharge head max.	10 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	16.3 kg

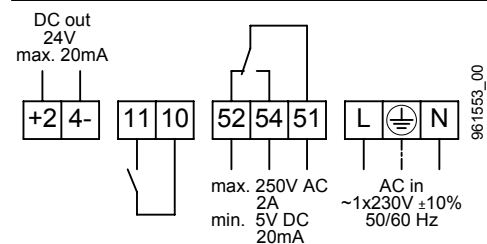
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	18-341 W
Rated current	0.19-1.54 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.52 bar
at 110°C water temperature	1.12 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

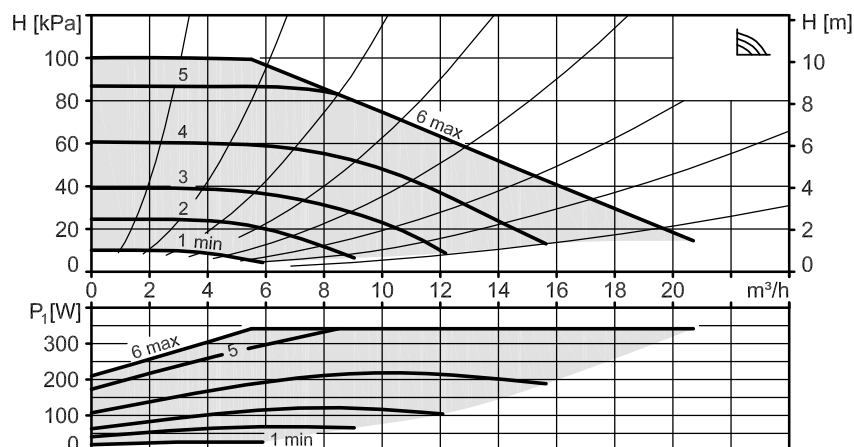
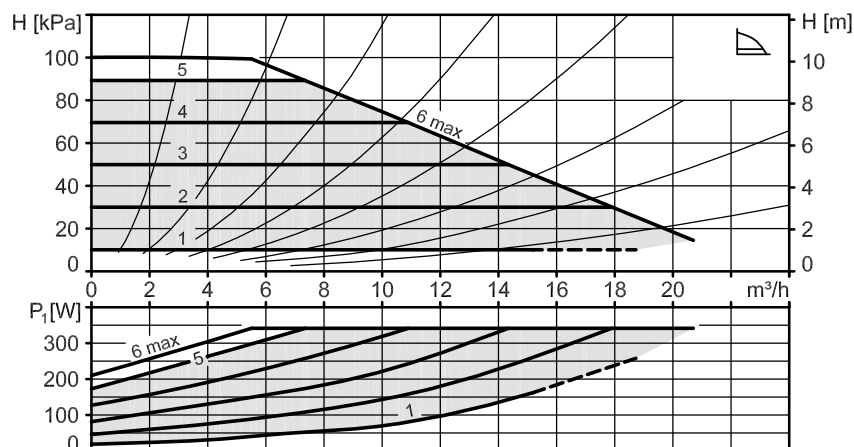
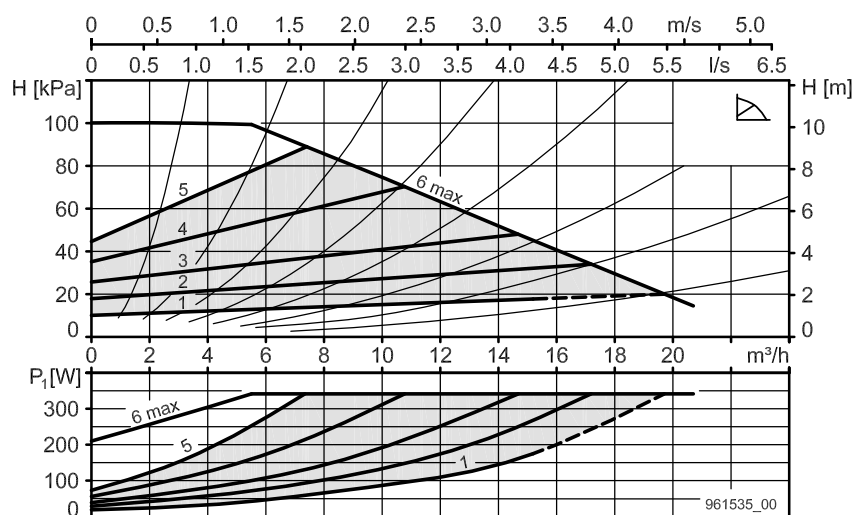
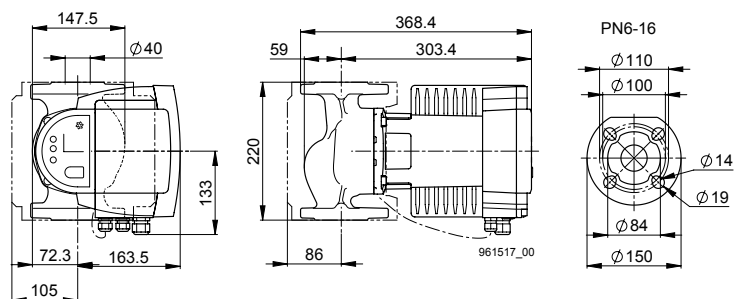
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-10 220 RED	2200760350



ModuA 40-12 250 RED

Nominal width	DN 40
Discharge head max.	12 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	16.1 kg

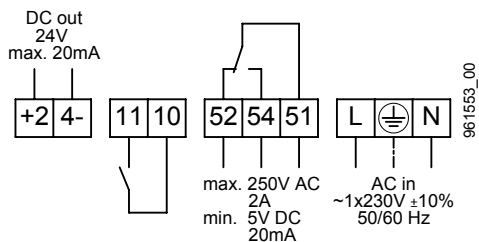
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	17-421 W
Rated current	0.18-1.91 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.42 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

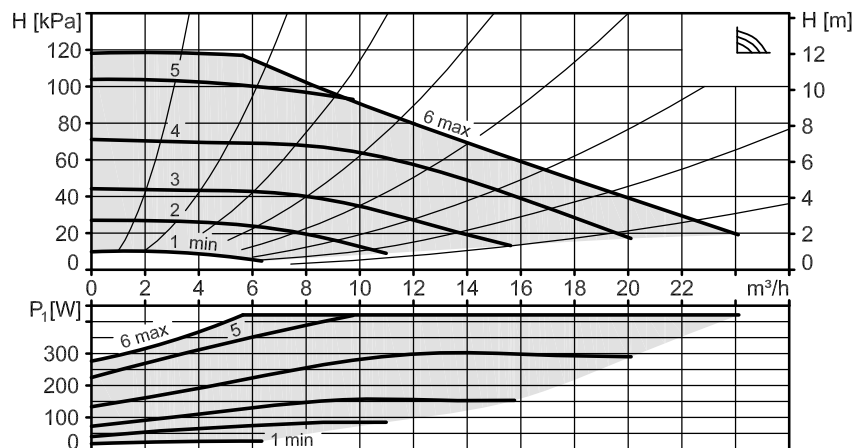
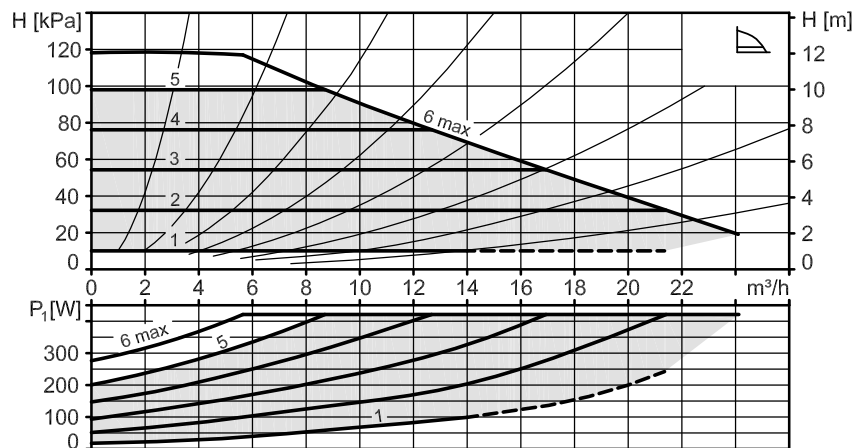
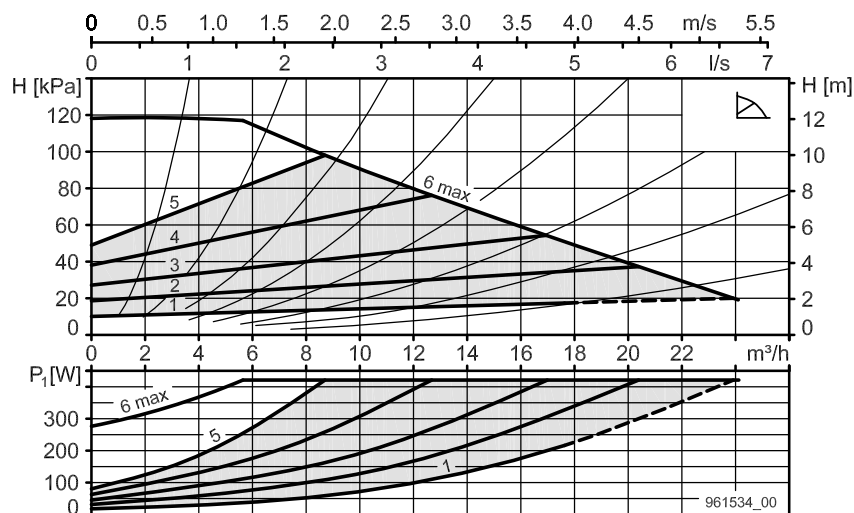
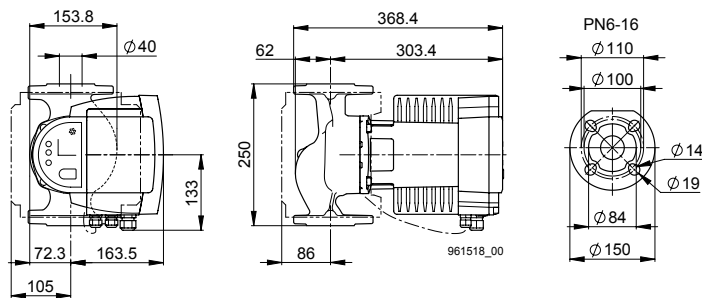
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-12 250 RED	2200770350



ModuA 40-18 250 RED

Nominal width	DN 40
Discharge head max.	18 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	16.1 kg

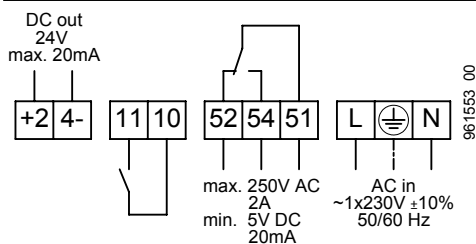
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	16-594 W
Rated current	0.18-2.63 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.42 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

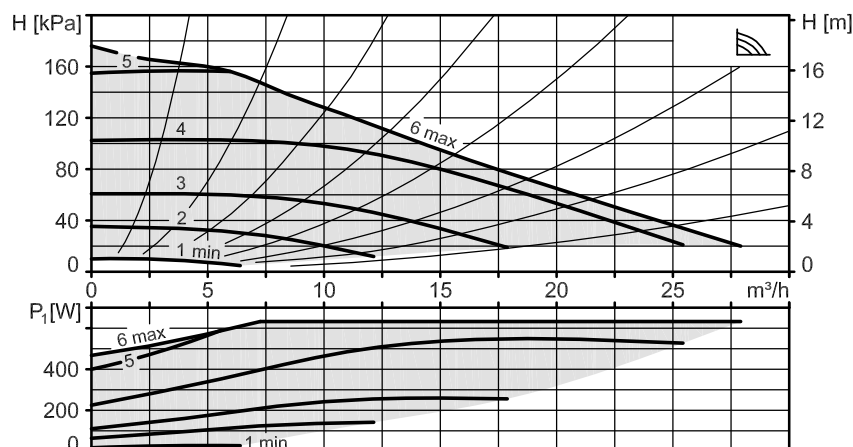
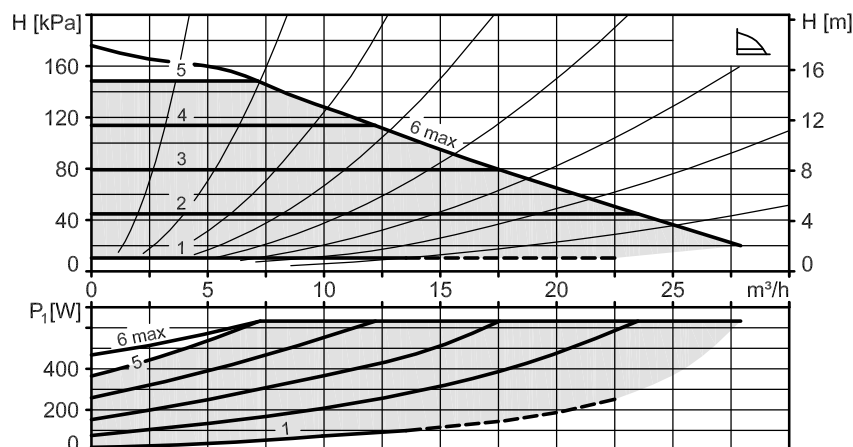
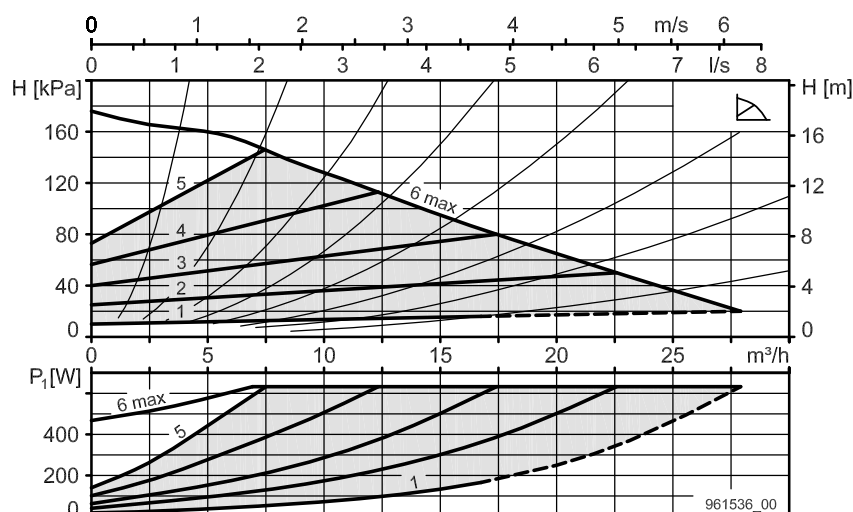
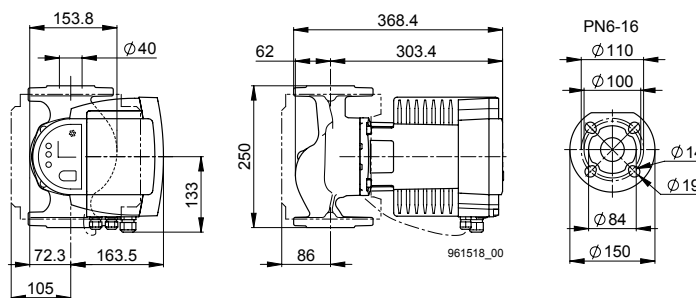
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-18 250 RED	2200790350



ModuA 50-6 240 RED

Nominal width	DN 50
Discharge head max.	6 m
Installation length	240 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	17.6 kg

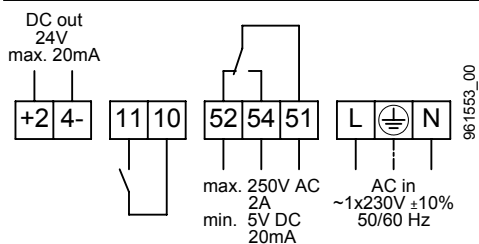
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	21-236 W
Rated current	0.21-1.09 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.12 bar
at 110°C water temperature	0.72 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

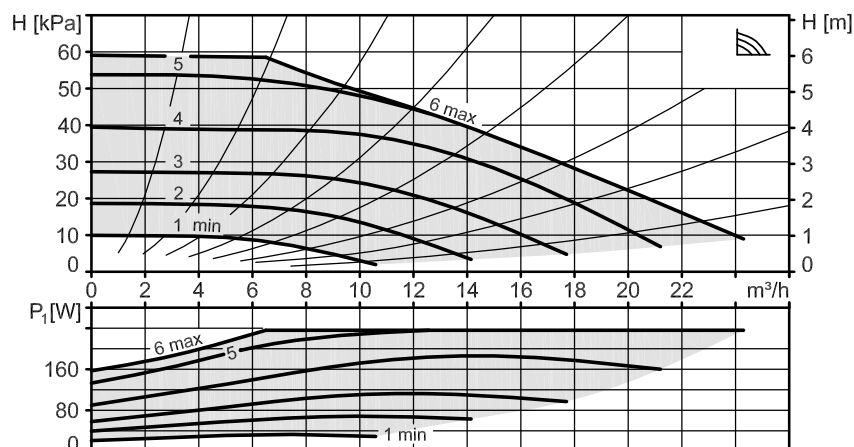
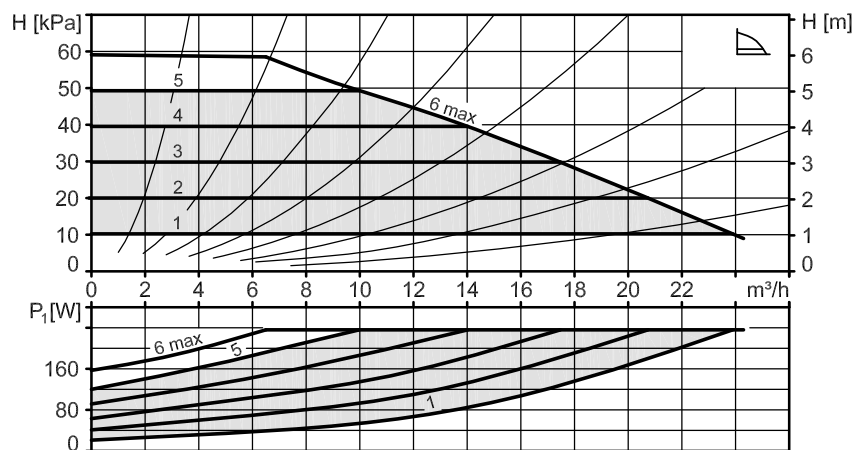
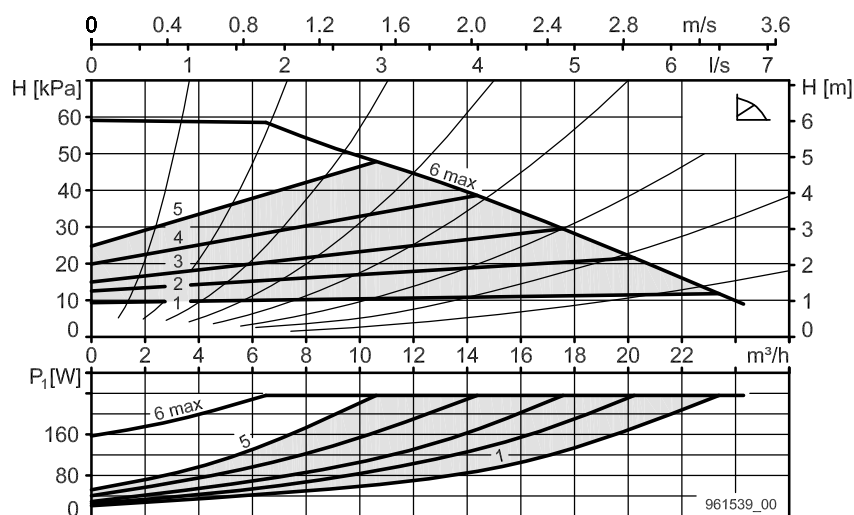
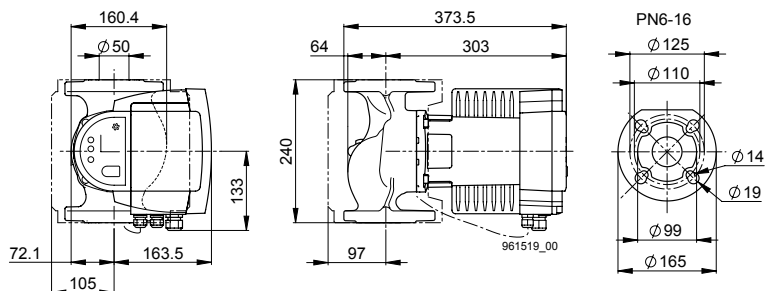
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-6 240 RED	2200810350



ModuA 50-8 240 RED

Nominal width	DN 50
Discharge head max.	8 m
Installation length	240 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	17.6 kg

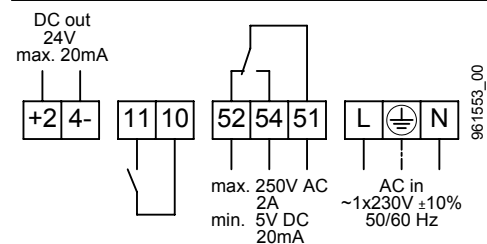
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-315 W
Rated current	0.21-1.42 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.12 bar
at 110°C water temperature	0.72 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

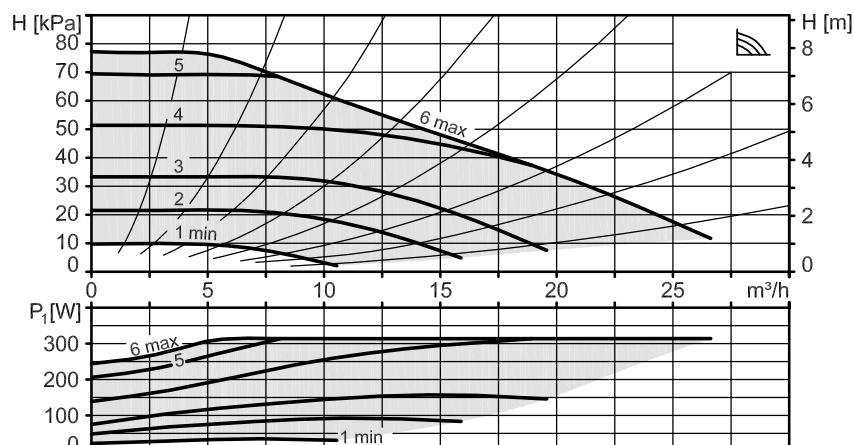
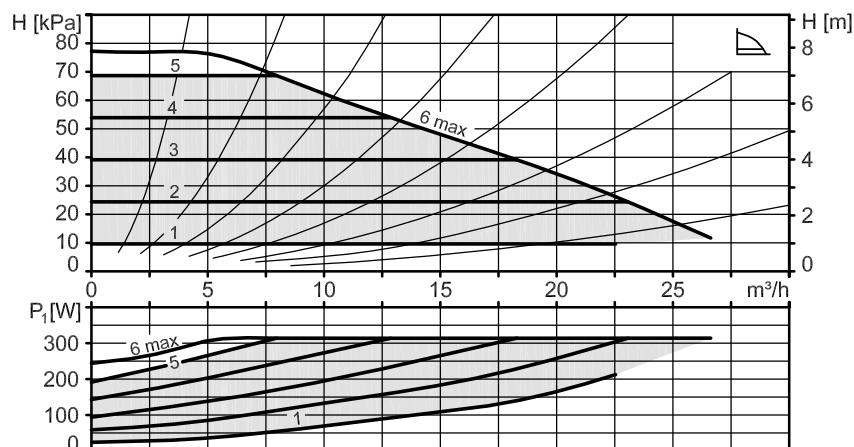
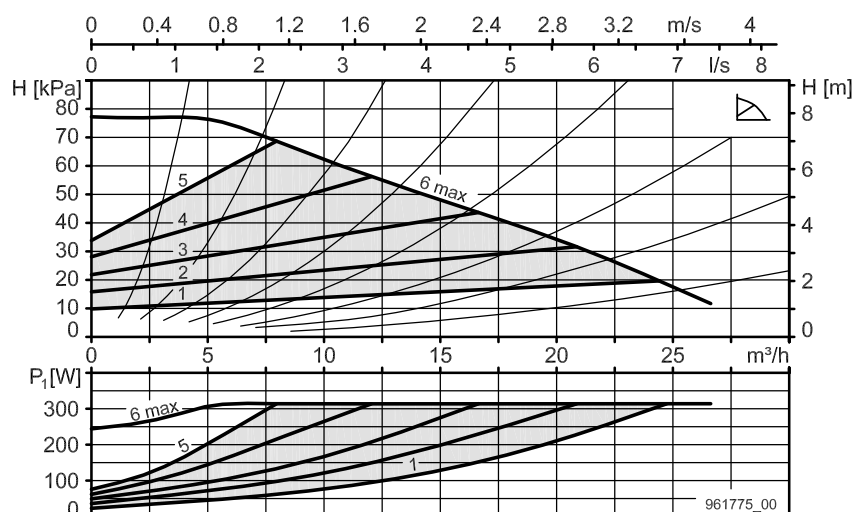
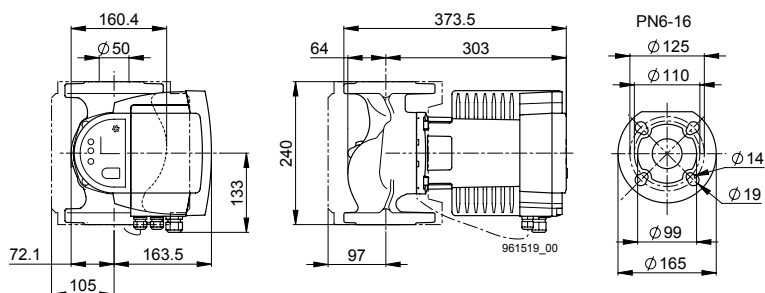
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-8 240 RED	2200820350



ModuA 50-11 220 RED

Nominal width	DN 50
Discharge head max.	11 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	8.8 kg

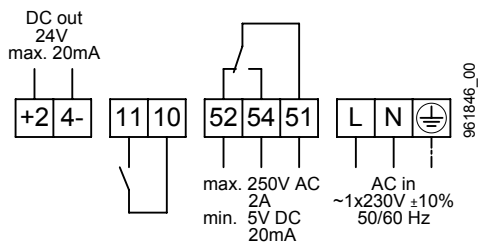
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	13-187 W
Rated current	0.11-1.45 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.52 bar
at 110°C water temperature	1.12 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

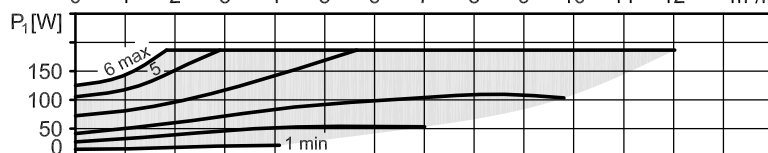
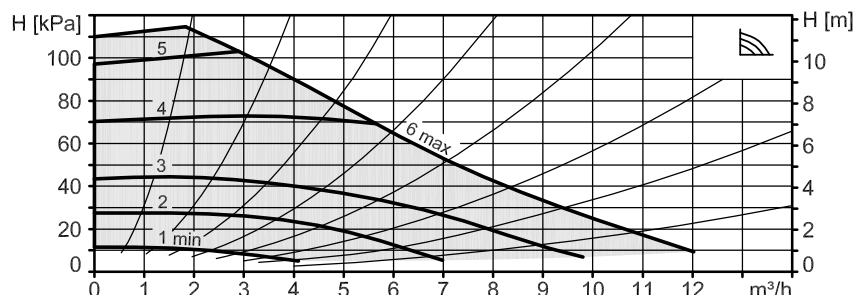
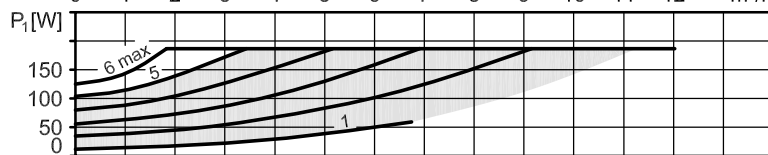
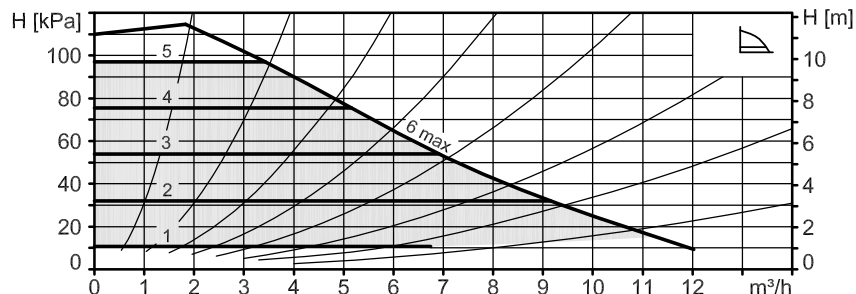
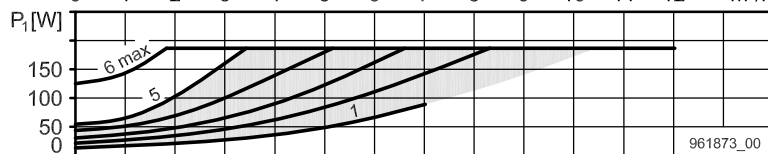
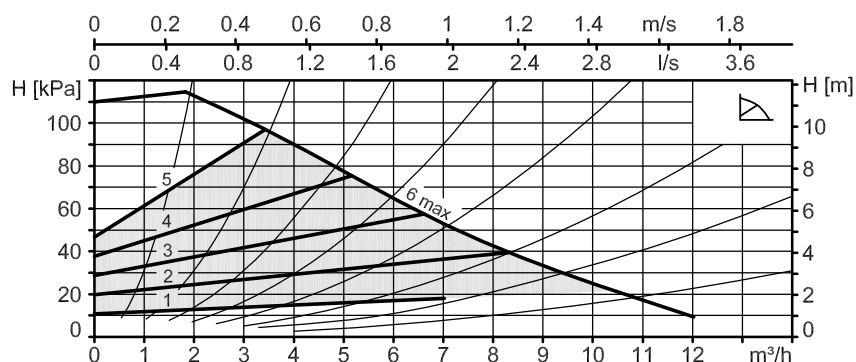
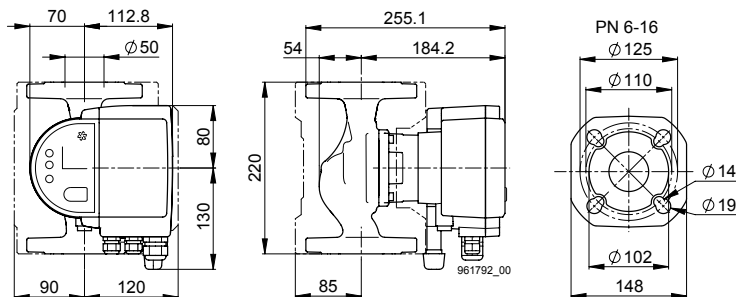
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-11 220 RED	2204730350



ModuA 50-12 270 RED

Nominal width	DN 50
Discharge head max.	12 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	18.1 kg

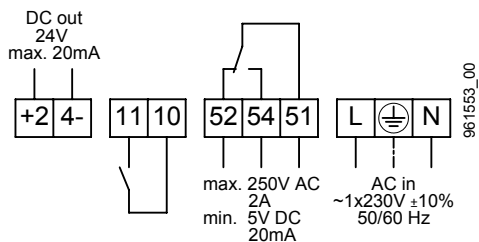
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	20-516 W
Rated current	0.21-2.32 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.42 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

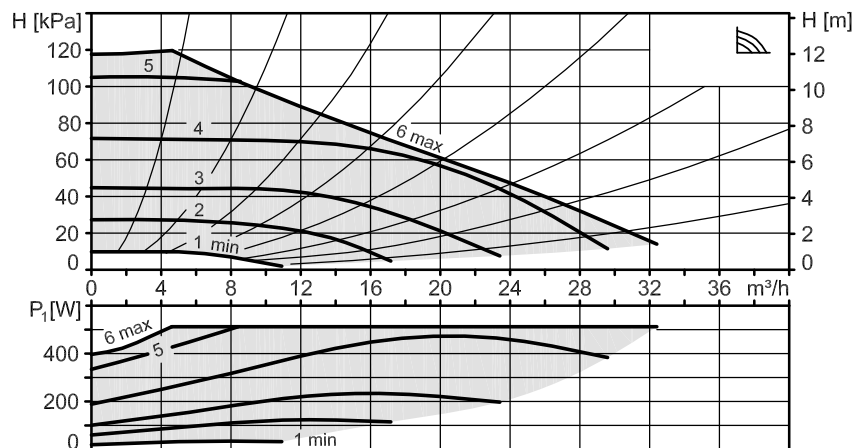
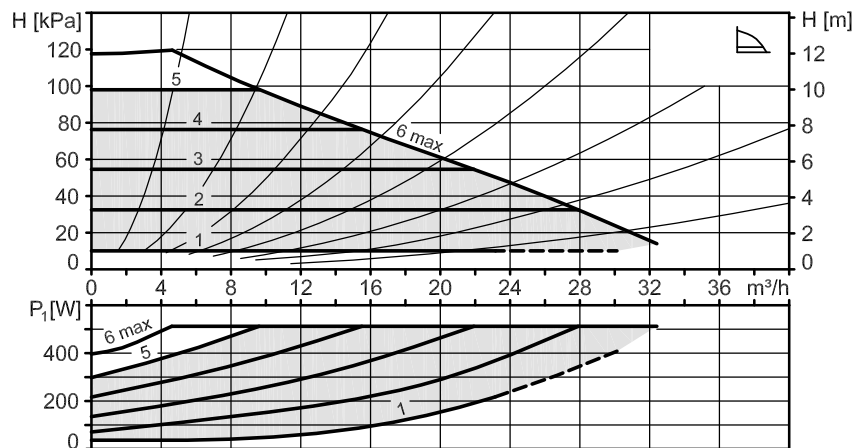
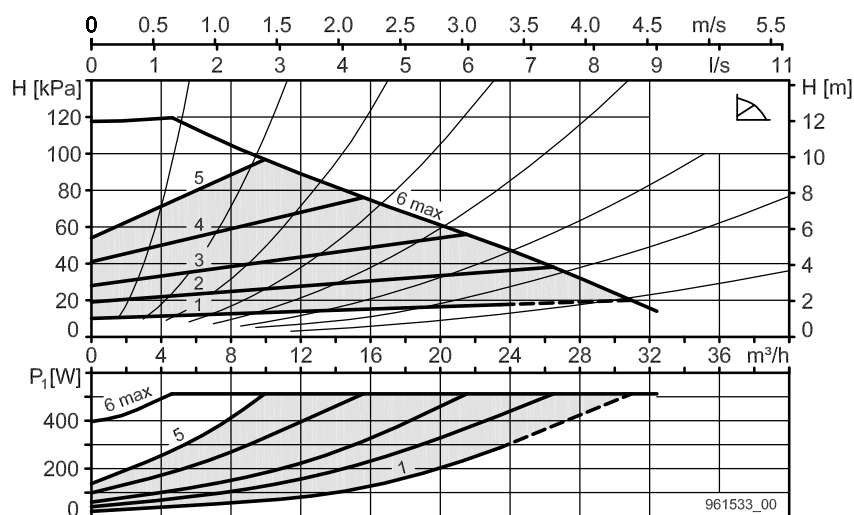
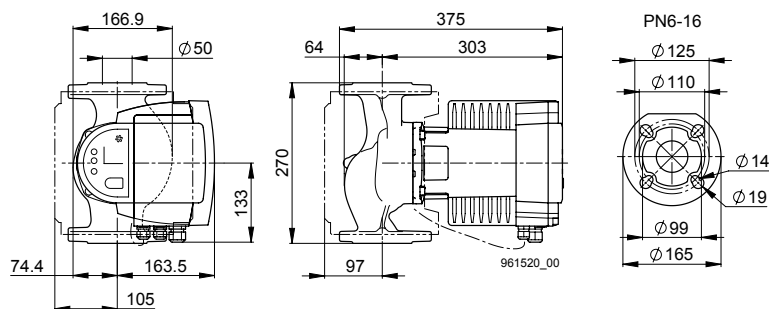
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-12 270 RED	2200840350



ModuA 50-18 270 RED

Nominal width	DN 50
Discharge head max.	18 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	18.8 kg

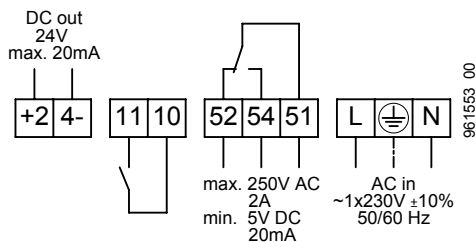
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-742 W
Rated current	0.21-3.34 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.22 bar
at 95°C water temperature	0.62 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

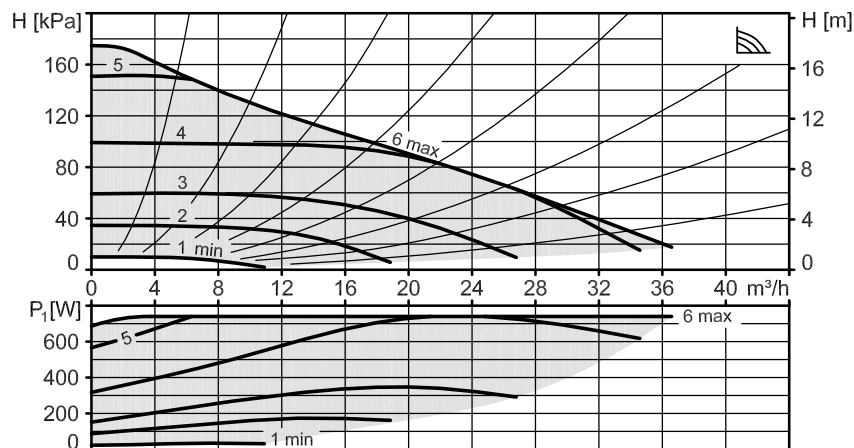
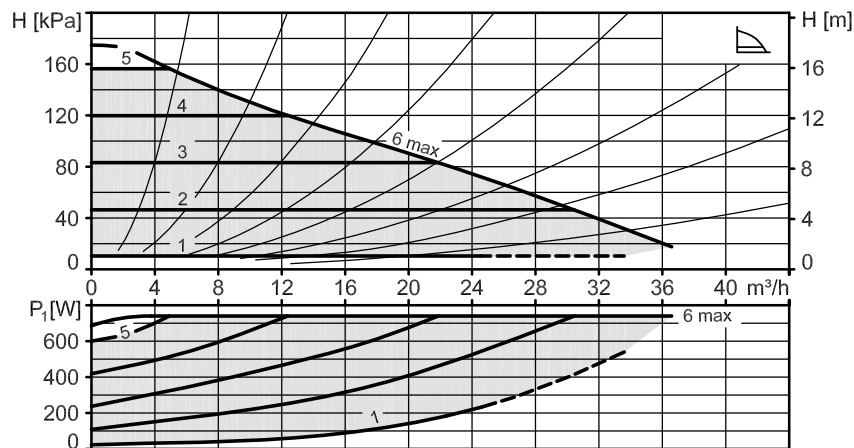
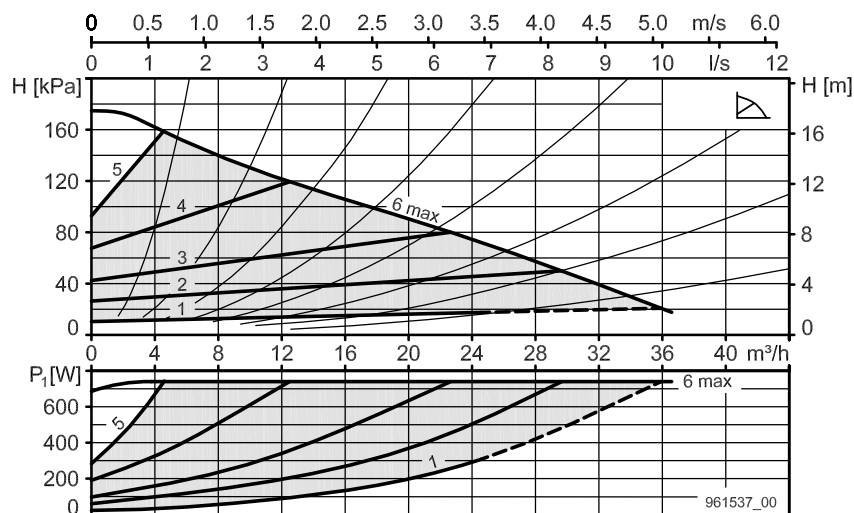
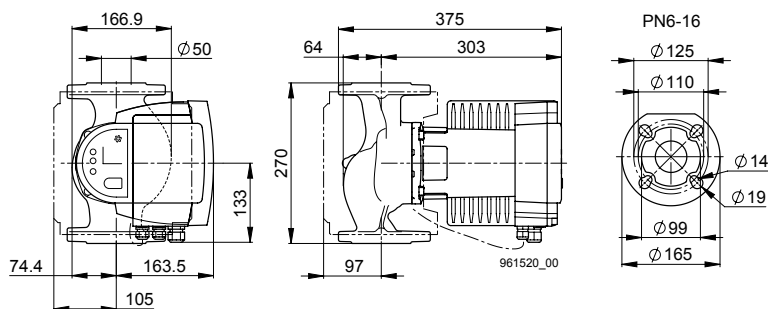
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-18 270 RED	2200860350



ModuA 65-6 270 RED

Nominal width	DN 65
Discharge head max.	6 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	20.6 kg

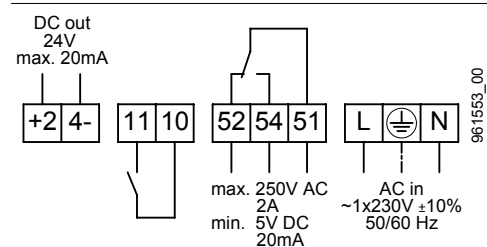
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-353 W
Rated current	0.22-1.58 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.22 bar
at 95°C water temperature	0.62 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

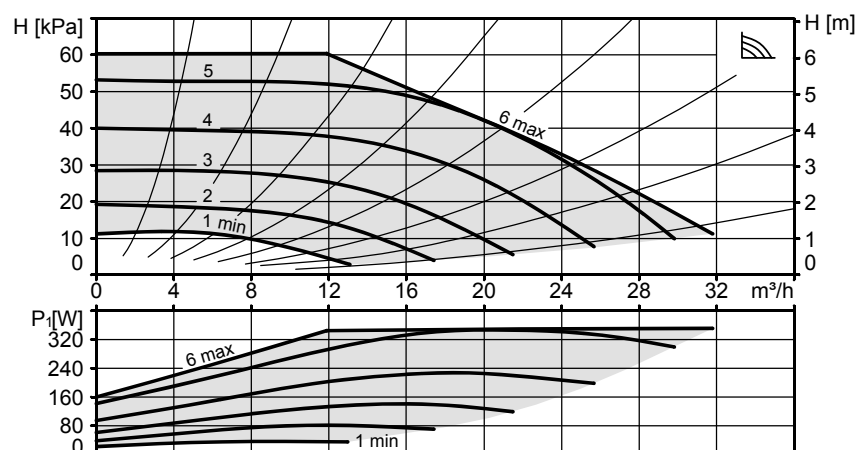
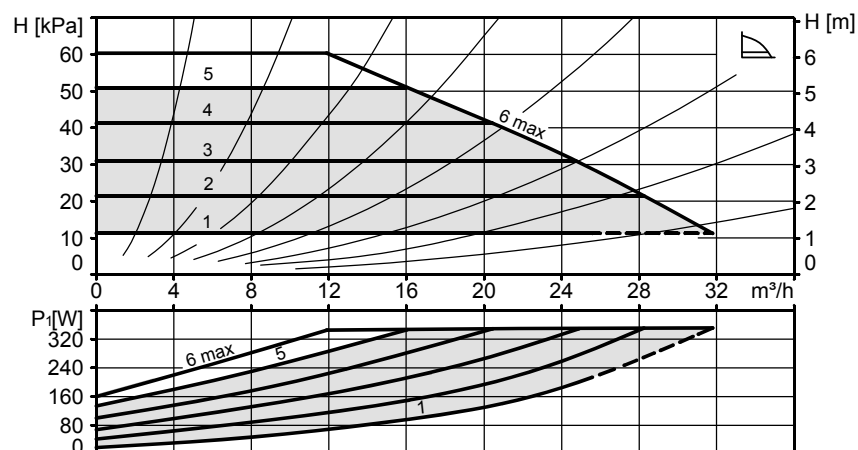
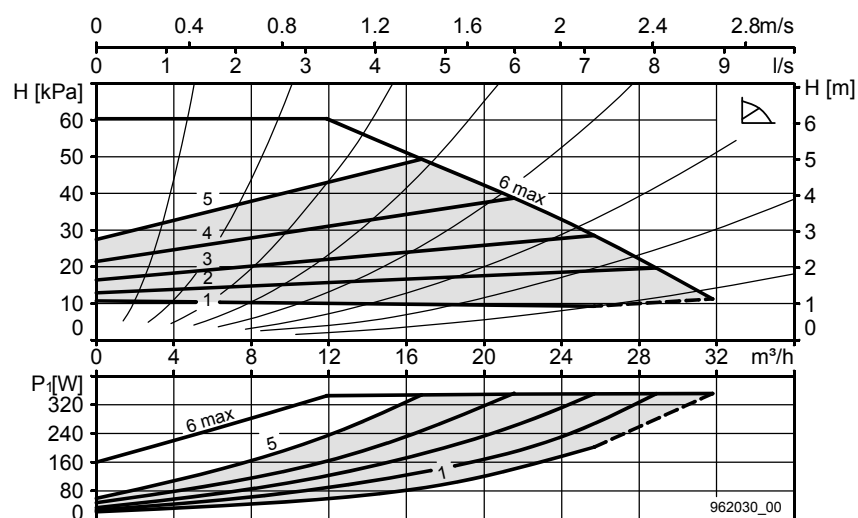
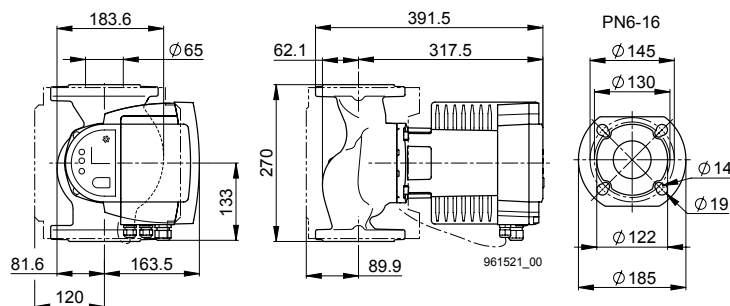
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 65-6 270 RED	2200880350



ModuA 65-8 270 RED

Nominal width	DN 65
Discharge head max.	8 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	20.6 kg

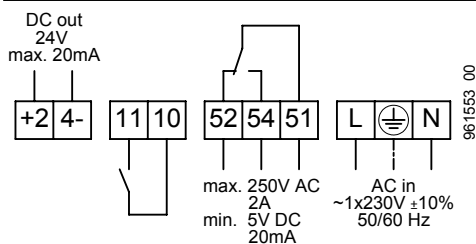
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-464 W
Rated current	0.24-2.10 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.22 bar
at 95°C water temperature	0.62 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

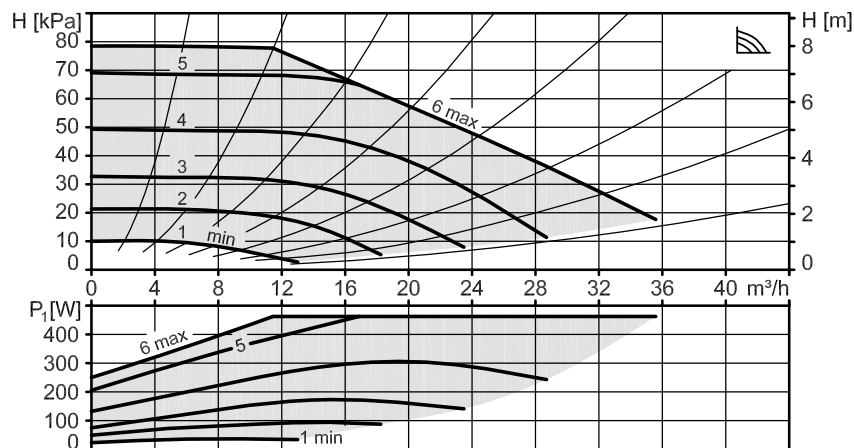
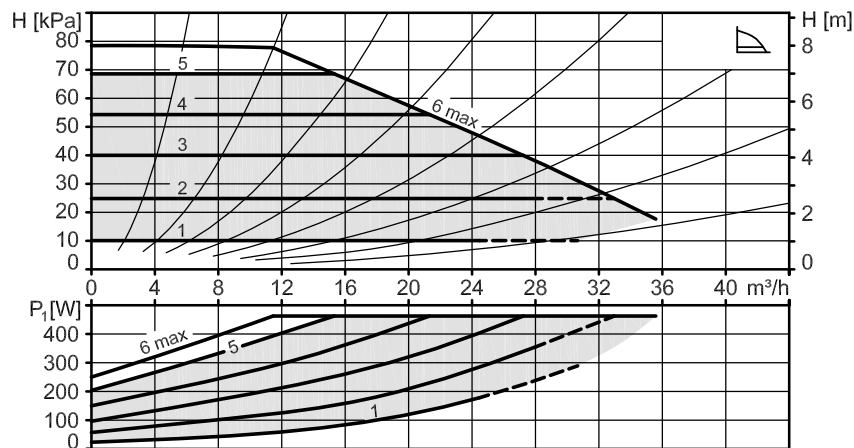
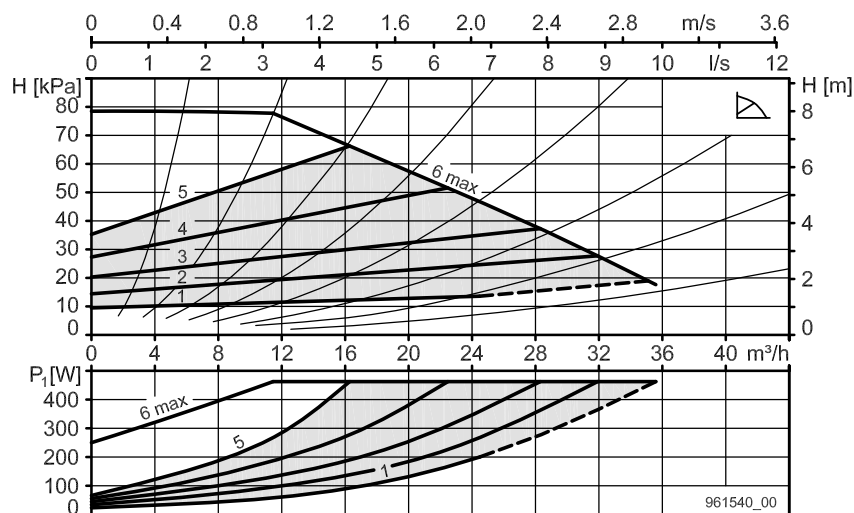
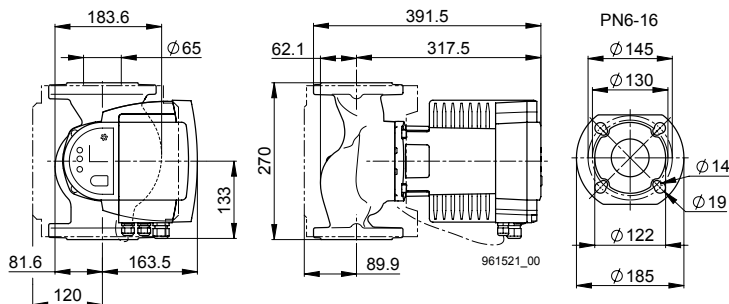
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 65-8 270 RED	2200890350



ModuA 65-12 340 RED

Nominal width	DN 65
Discharge head max.	12 m
Installation length	340 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	21.5 kg

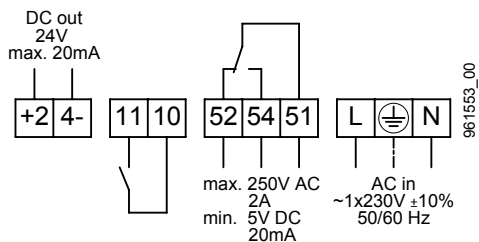
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	21-736 W
Rated current	0.22-3.32 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.52 bar
at 110°C water temperature	1.12 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

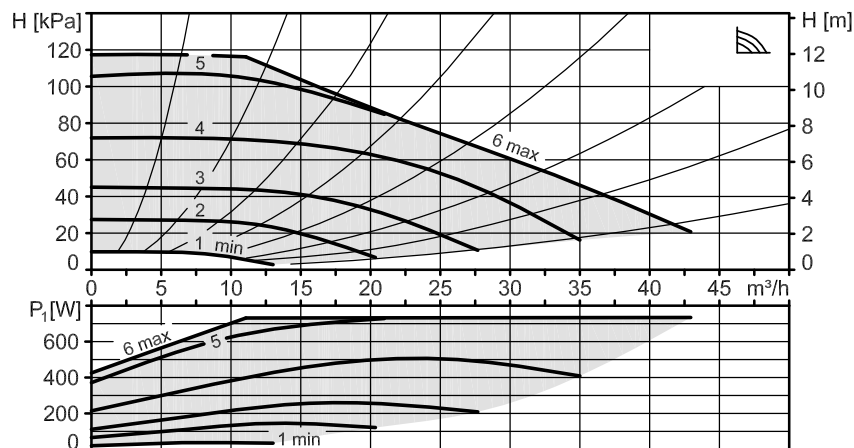
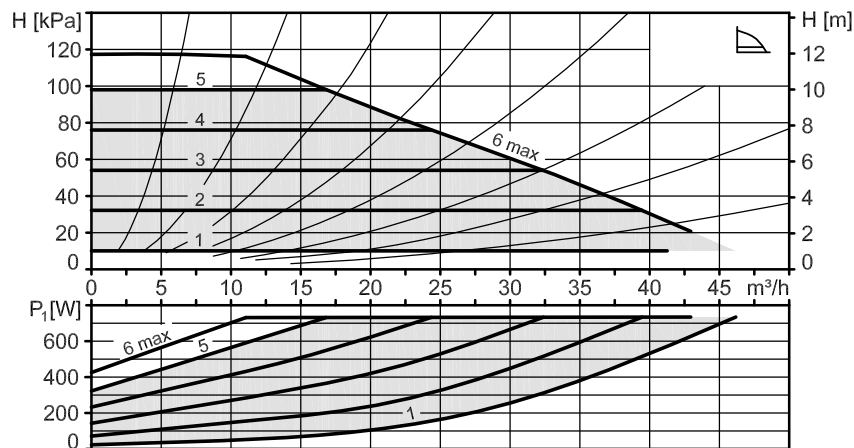
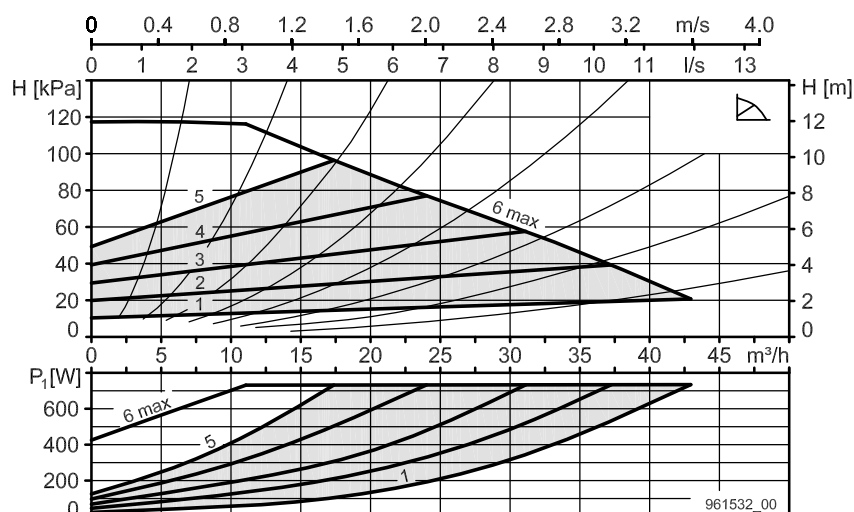
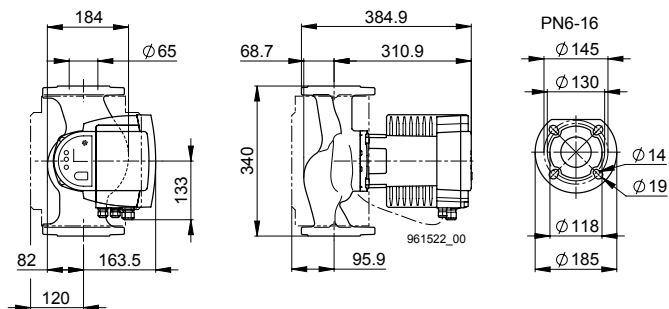
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 65-12 340 RED	2200970350



ModuA 65-15 340 RED

Nominal width	DN 65
Discharge head max.	15 m
Installation length	340 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	24.0 kg

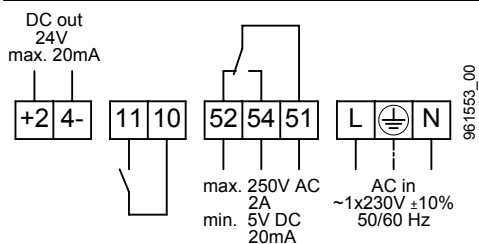
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	30-1254 W
Rated current	0.28-5.68 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.42 bar
at 95°C water temperature	0.82 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

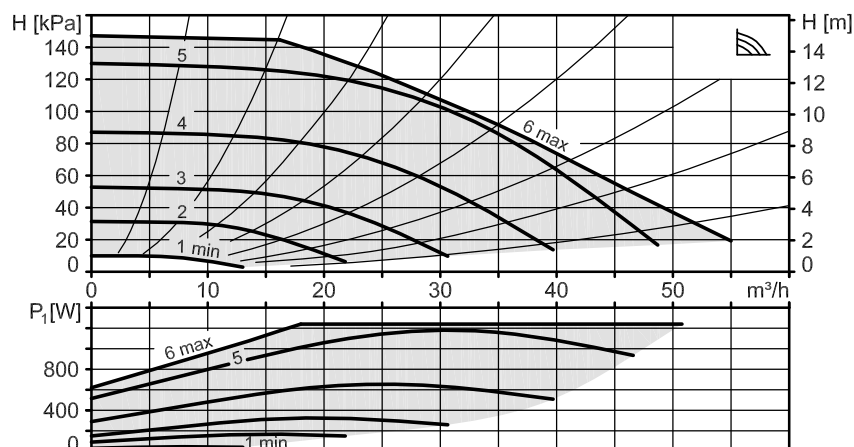
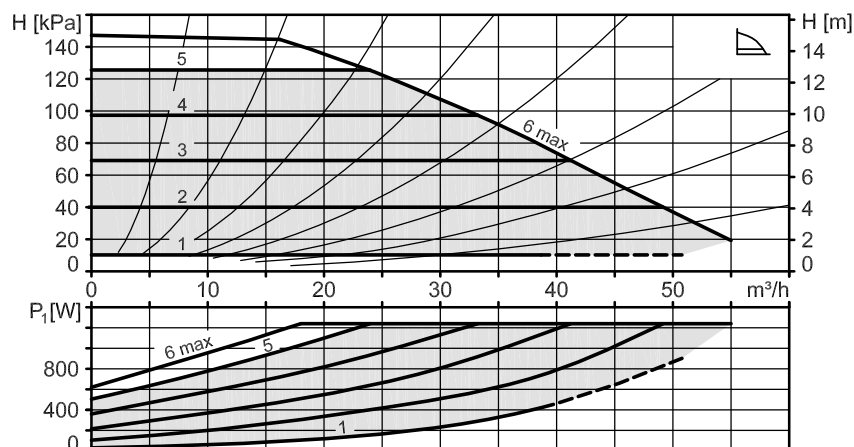
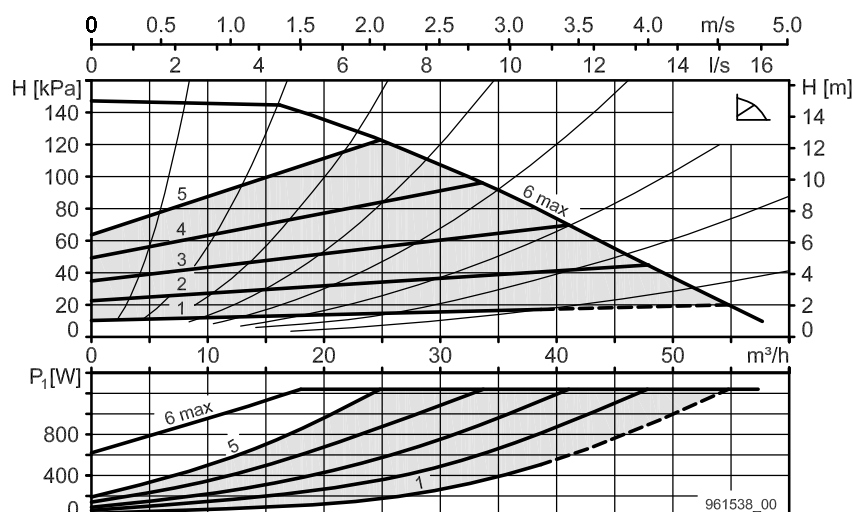
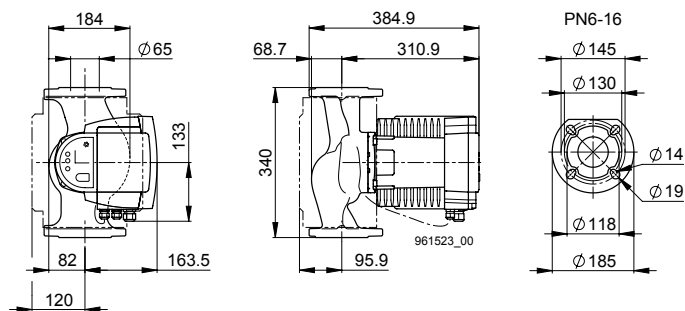
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 65-15 340 RED	2200980350



ModulA 80-8 360 RED PN6

ModulA 80-8 360 RED PN10/16

Nominal width	DN 80
Discharge head max.	8 m
Installation length	360 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	29.1 kg

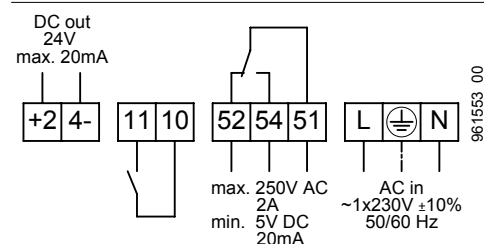
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	29-704 W
Rated current	0.29-3.08 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.52 bar
at 95°C water temperature	0.92 bar
at 110°C water temperature	1.52 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

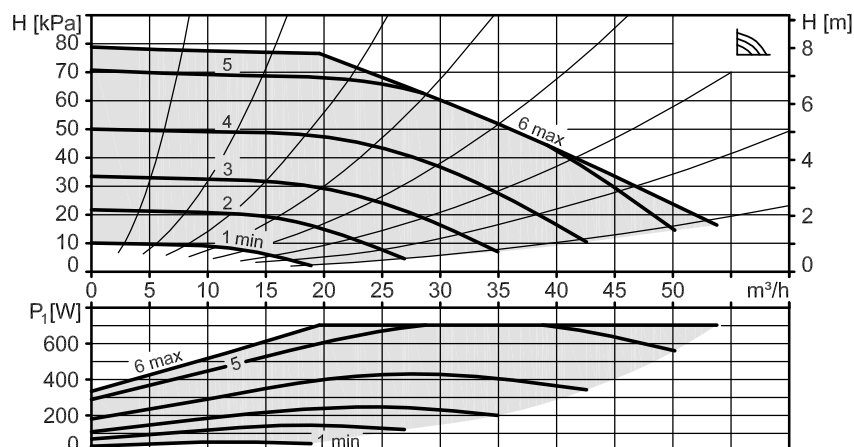
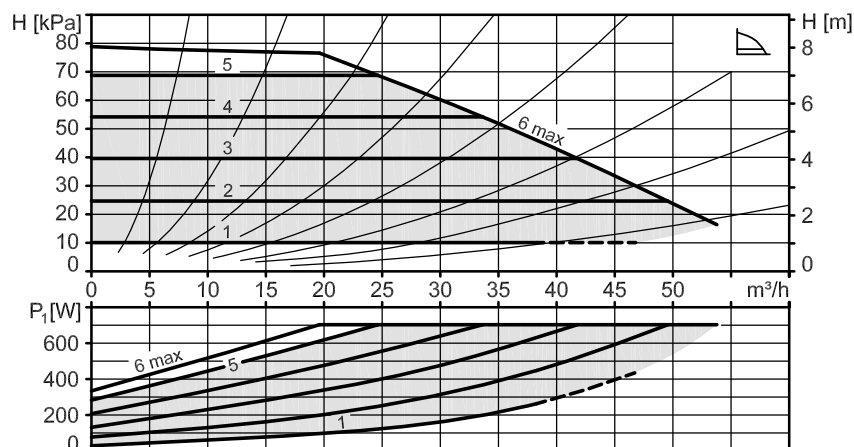
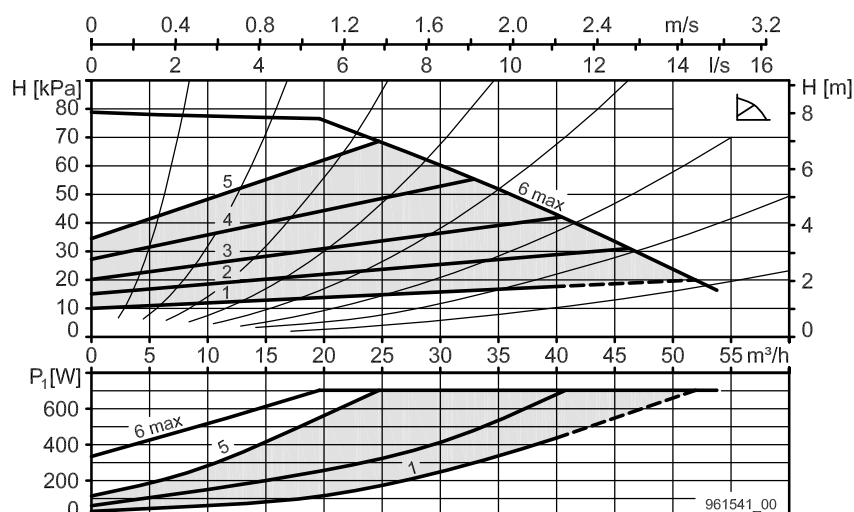
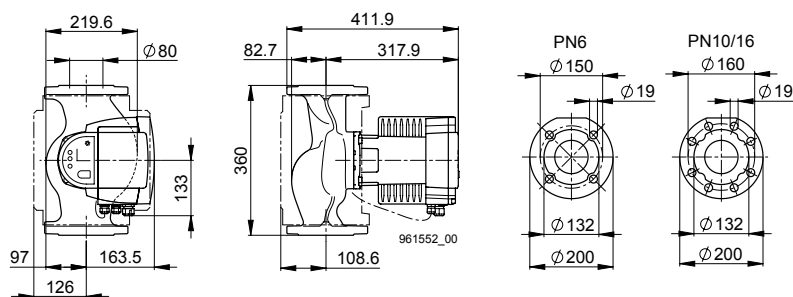
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6 or PN 10/16

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Biral Remote Adapter

Type	Article number Biral
ModulA 80-8 360 RED PN6	2201010350
ModulA 80-8 360 RED PN10/16	2201012350



ModulA 80-12 360 RED PN6

ModulA 80-12 360 RED PN10/16

Nominal width	DN 80
Discharge head max.	12 m
Installation length	360 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	29.1 kg

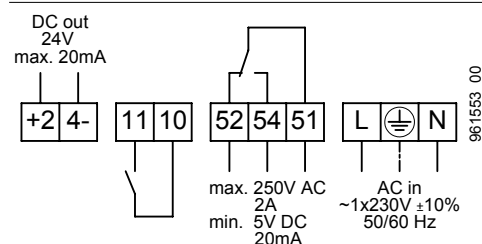
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	35-1282 W
Rated current	0.32-5.56 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.52 bar
at 95°C water temperature	0.92 bar
at 110°C water temperature	1.52 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

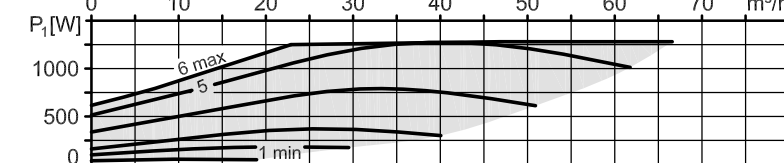
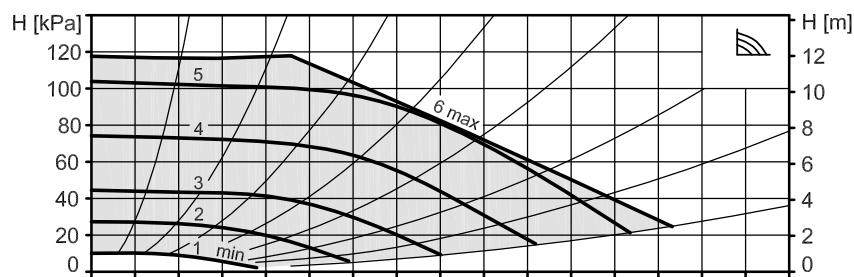
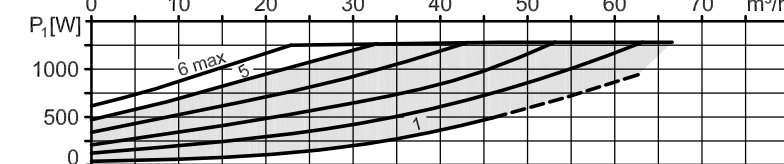
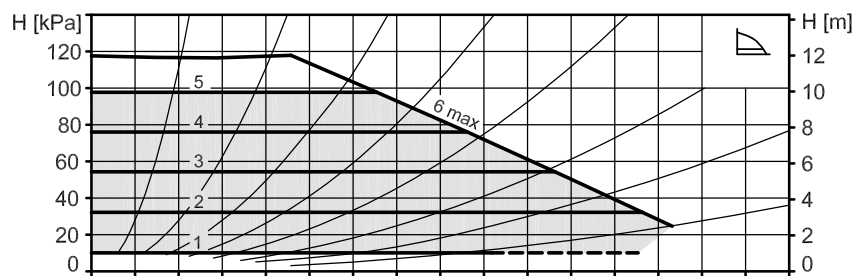
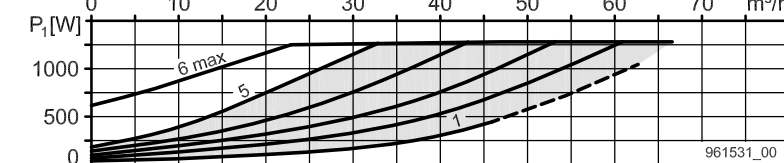
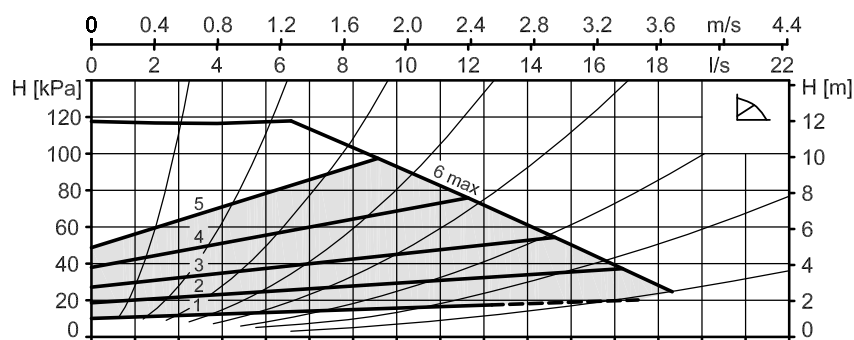
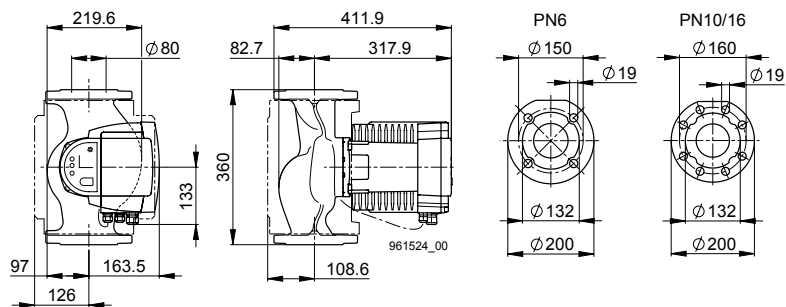
- Heat insulation shell
- Sealing set for flange PN 6 or PN 10/16

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Biral Remote Adapter

Type Article number Biral

ModulA 80-12 360 RED PN6	2201030350
ModulA 80-12 360 RED PN10/16	2201032350



ModulA 100-12 450 RED PN6

ModulA 100-12 450 RED PN10/16

Nominal width	DN 100
Discharge head max.	12 m
Installation length	450 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	34.0 kg

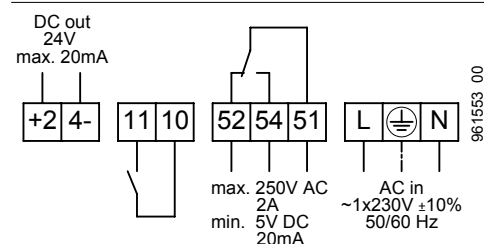
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	35-1563 W
Rated current	0.32-6.78 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.52 bar
at 95°C water temperature	0.92 bar
at 110°C water temperature	1.52 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

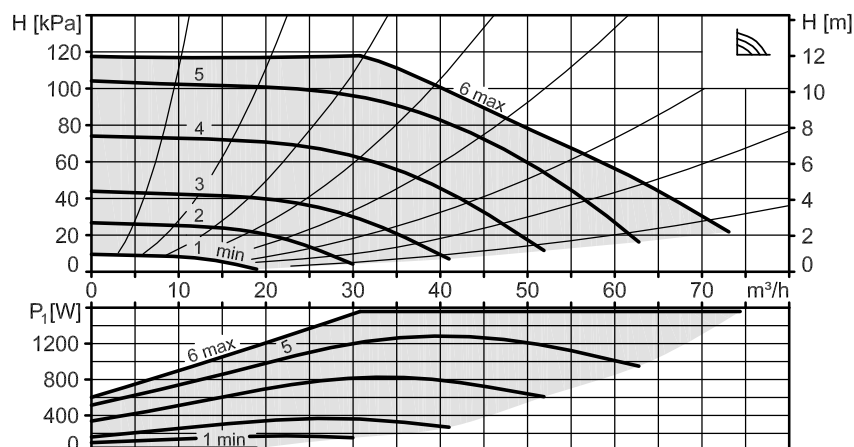
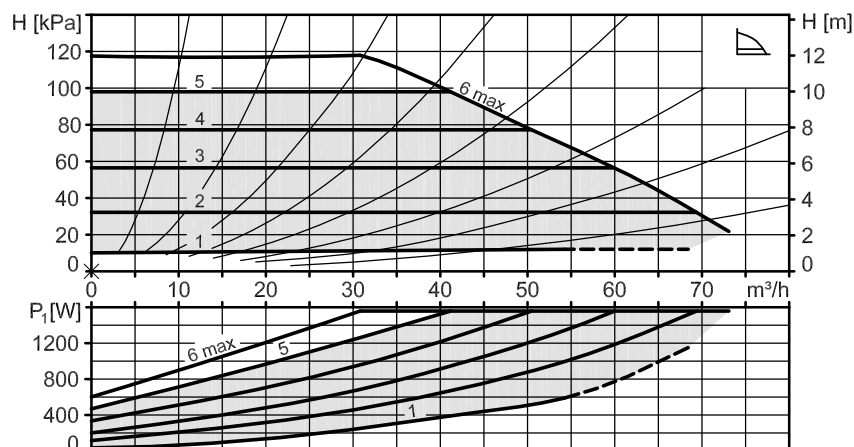
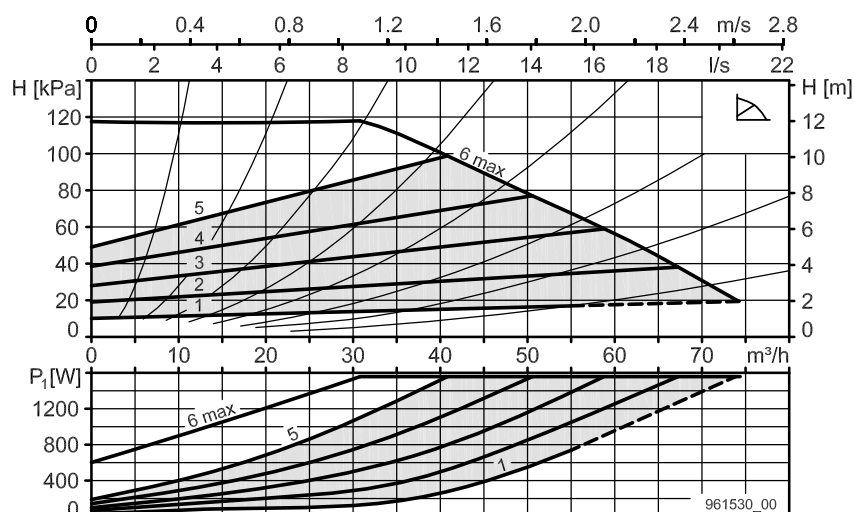
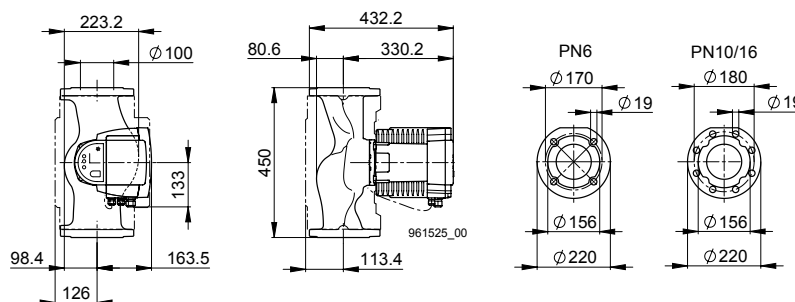
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6 or PN 10/16

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Biral Remote Adapter

Type	Article number Biral
ModulA 100-12 450 RED PN6	2201090350
ModulA 100-12 450 RED PN10/16	2201092350





Premium heating circulation pumps

ModulA-D... RED

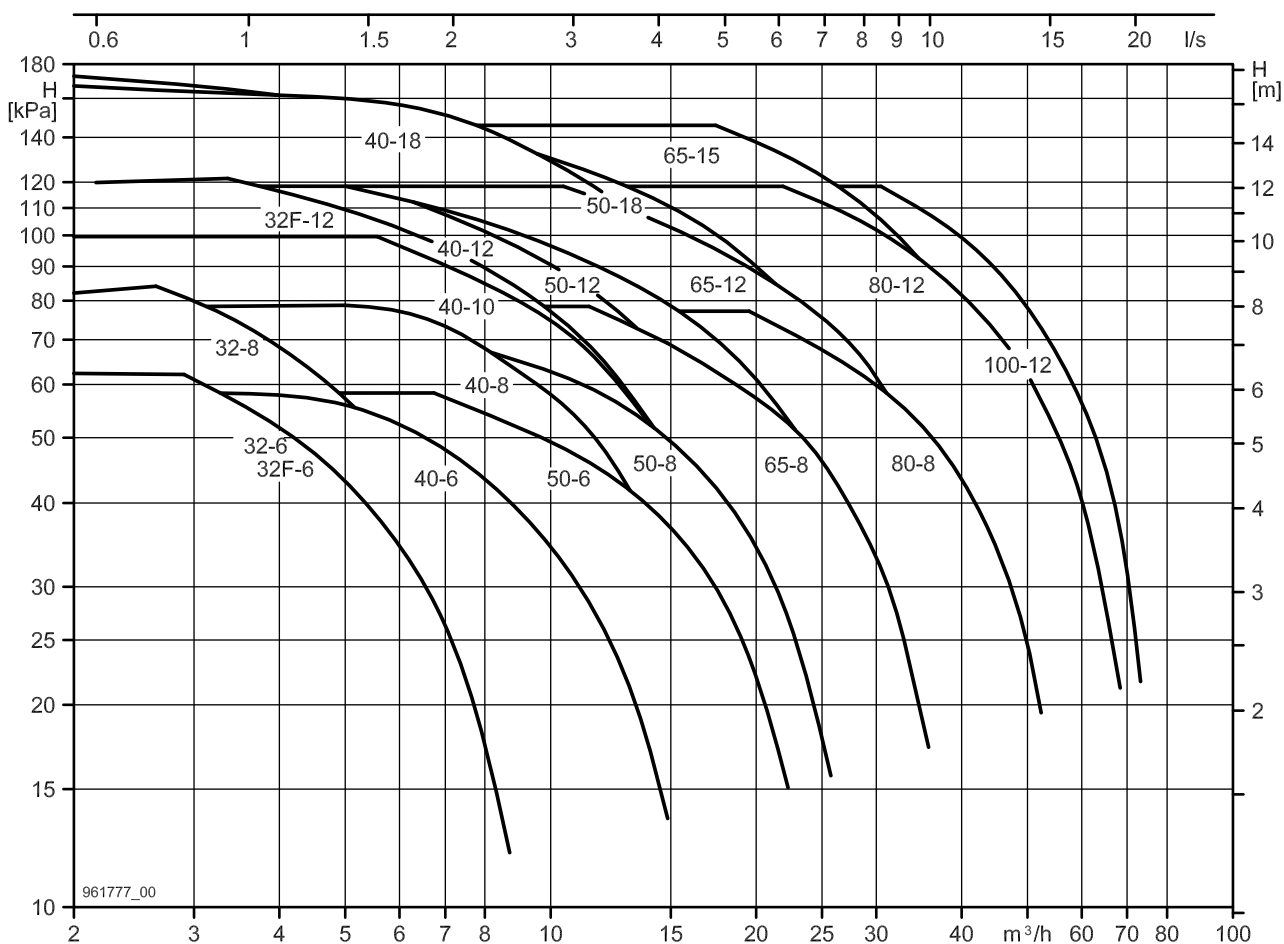
Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.	EEL-value
		DN	m	mm		bar	
ModulA-D 32-6 180 RED	2204760350	32	6	180	G 2"	10	≤0.18
ModulA-D 32-8 180 RED	2204770350	32	8	180	G 2"	10	≤0.18

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.	EEL-value
		DN	m	mm		bar	
ModulA-D 32F-6 220 RED	2204810350	32	6	220	PN 6	6	≤0.18
ModulA-D 32F-12 220 RED	2201650350	32	12	220	PN 6-16	16	≤0.18
ModulA-D 40-6 220 RED	2201690350	40	6	220	PN 6-16	16	≤0.19
ModulA-D 40-8 220 RED	2201700350	40	8	220	PN 6-16	16	≤0.19
ModulA-D 40-10 220 RED	2201710350	40	10	220	PN 6-16	16	≤0.19
ModulA-D 40-12 250 RED	2201720350	40	12	250	PN 6-16	16	≤0.18
ModulA-D 40-18 250 RED	2201740350	40	18	250	PN 6-16	16	≤0.18
ModulA-D 50-6 240 RED	2201760350	50	6	240	PN 6-16	16	≤0.18
ModulA-D 50-8 240 RED	2201770350	50	8	240	PN 6-16	16	≤0.18
ModulA-D 50-12 270 RED	2201790350	50	12	270	PN 6-16	16	≤0.18
ModulA-D 50-18 270 RED	2201810350	50	18	270	PN 6-16	16	≤0.17
ModulA-D 65-8 340 RED	2201840350	65	8	340	PN 6-16	16	≤0.17
ModulA-D 65-12 340 RED	2201860350	65	12	340	PN 6-16	16	≤0.17
ModulA-D 65-15 340 RED	2201870350	65	15	340	PN 6-16	16	≤0.17
ModulA-D 80-8 360 RED PN6	2201900350	80	8	360	PN 6	6	≤0.17
ModulA-D 80-8 360 RED PN10/16	2201902350	80	8	360	PN 10/16	16	≤0.17
ModulA-D 80-12 360 RED PN6	2201920350	80	12	360	PN 6	6	≤0.17
ModulA-D 80-12 360 RED PN10/16	2201922350	80	12	360	PN 10/16	16	≤0.17
ModulA-D 100-12 450 RED PN6	2201980350	100	12	450	PN 6	6	≤0.17
ModulA-D 100-12 450 RED PN10/16	2201982350	100	12	450	PN 10/16	16	≤0.17

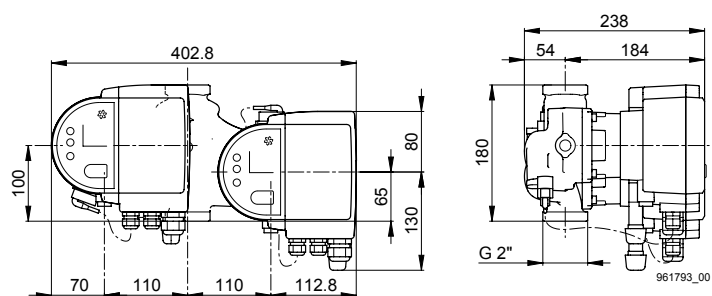
Order reference

	Modula	(-D)	32	(F)	-6	220	RED
Series							
Single pump							
Twin pump (-D)							
Nominal width (DN) [mm]							
Pipeline connection							
Flange (F)							
Discharge head max. [m]							
Installation height [mm]							
Field of application							
Heating (RED)							
Cold water (GREEN)							
Service water (BLUE)							



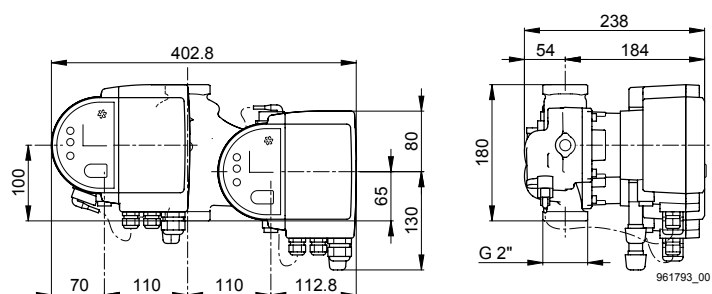
Modula-D 32-6 180 RED

Article number Biral	2204760350
Nominal width	DN 32
Discharge head max.	6 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	11.1 kg
Characteristic curve	see single pump
Additional information	see section product information



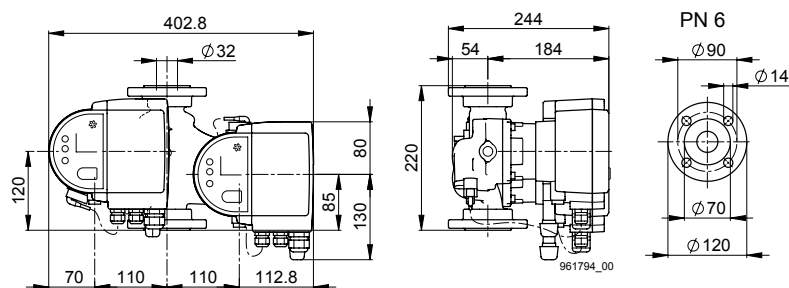
Modula-D 32-8 180 RED

Article number Biral	2204770350
Nominal width	DN 32
Discharge head max.	8 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	11.1 kg
Characteristic curve	see single pump
Additional information	see section product information



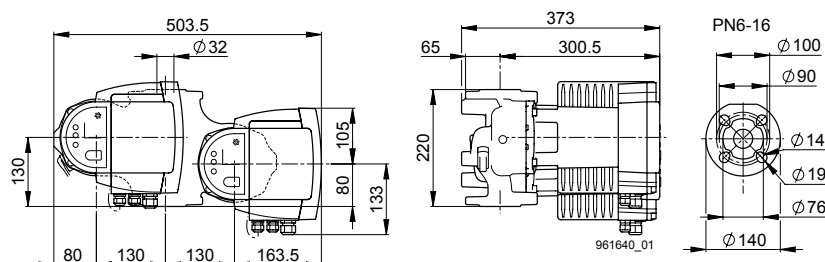
Modula-D 32F-6 220 RED

Article number Biral	2204810350
Nominal width	DN 32
Discharge head max.	6 m
Installation length	220 mm
Flange connection	PN 6
Operating pressure max.	6 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	13.4 kg
Characteristic curve	see single pump
Additional information	see section product information



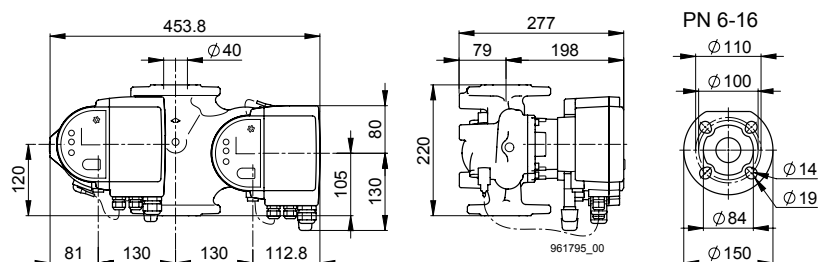
Modula-D 32F-12 220 RED

Article number Biral	2201650350
Nominal width	DN 32
Discharge head max.	12 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	30.6 kg
Characteristic curve	see single pump
Additional information	see section product information



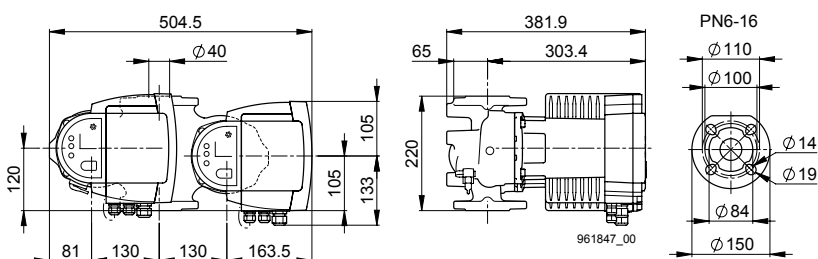
Modula-D 40-6 220 RED

Article number Biral	2201690350
Nominal width	DN 40
Discharge head max.	6 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	18.7 kg
Characteristic curve	see single pump
Additional information	see section product information



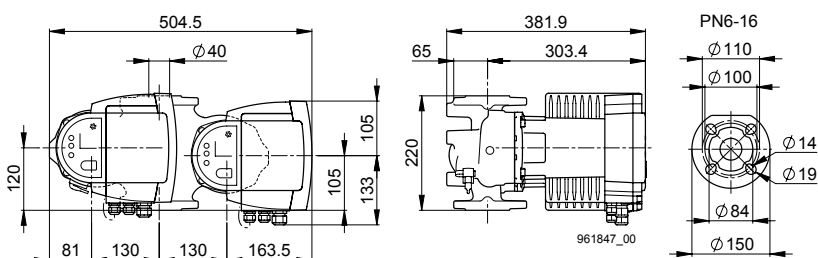
Modula-D 40-8 220 RED

Article number Biral	2201700350
Nominal width	DN 40
Discharge head max.	8 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	31.0 kg
Characteristic curve	see single pump
Additional information	see section product information



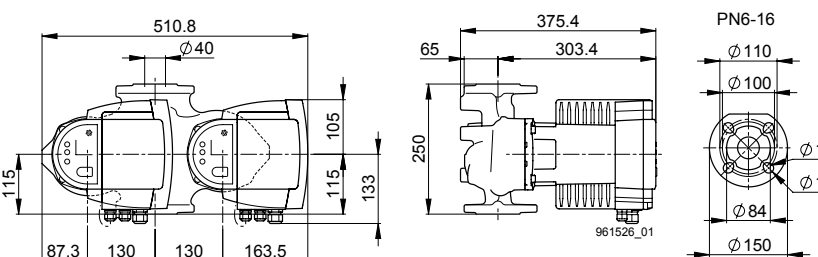
Modula-D 40-10 220 RED

Article number Biral	2201710350
Nominal width	DN 40
Discharge head max.	10 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	31.0 kg
Characteristic curve	see single pump
Additional information	see section product information



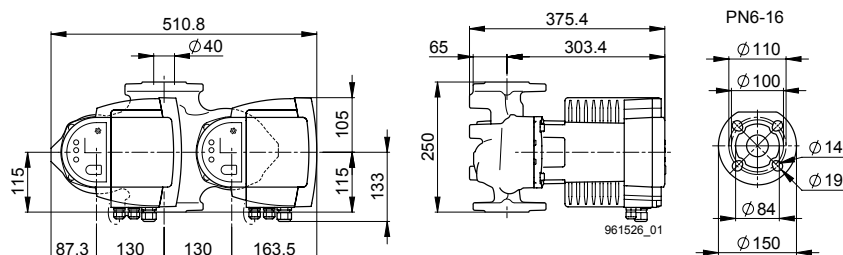
Modula-D 40-12 250 RED

Article number Biral	2201720350
Nominal width	DN 40
Discharge head max.	12 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	32.0 kg
Characteristic curve	see single pump
Additional information	see section product information



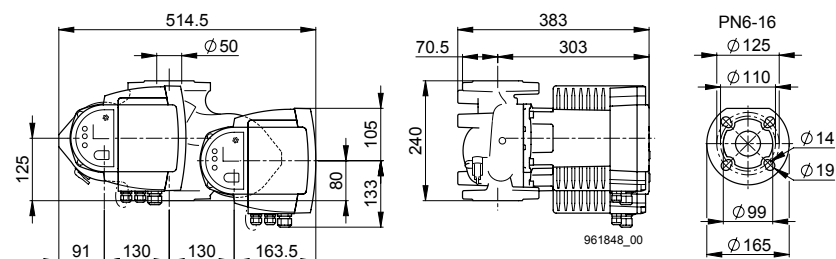
Modula-D 40-18 250 RED

Article number Biral	2201740350
Nominal width	DN 40
Discharge head max.	18 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	32.0 kg
Characteristic curve	see single pump
Additional information	see section product information



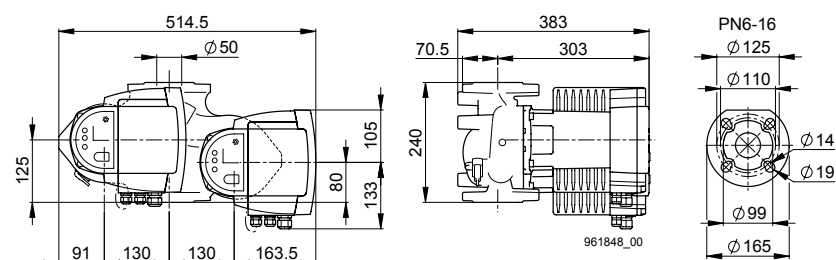
Modula-D 50-6 240 RED

Article number Biral	2201760350
Nominal width	DN 50
Discharge head max.	6 m
Installation length	240 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	35.0 kg
Characteristic curve	see single pump
Additional information	see section product information



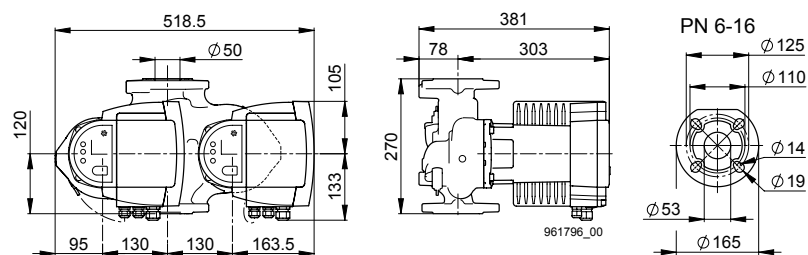
Modula-D 50-8 240 RED

Article number Biral	2201770350
Nominal width	DN 50
Discharge head max.	8 m
Installation length	240 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	35.0 kg
Characteristic curve	see single pump
Additional information	see section product information



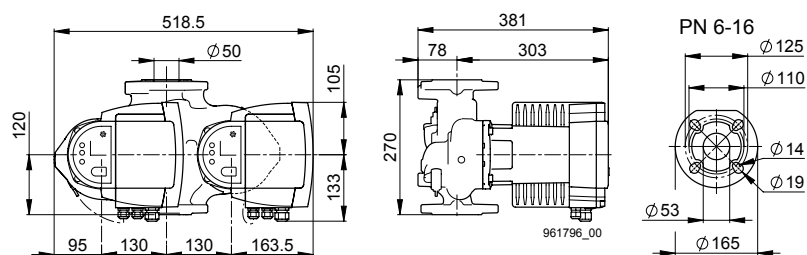
Modula-D 50-12 270 RED

Article number Biral	2201790350
Nominal width	DN 50
Discharge head max.	12 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	36.0 kg
Characteristic curve	see single pump
Additional information	see section product information



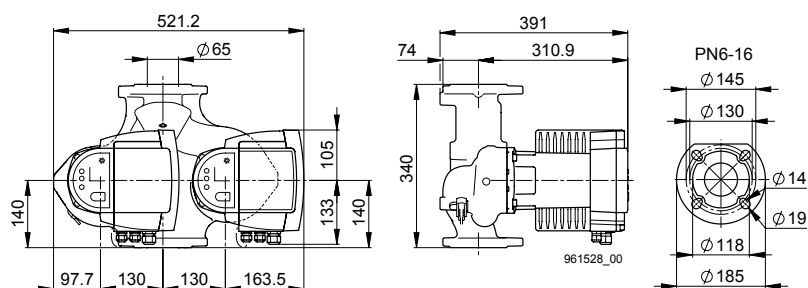
Modula-D 50-18 270 RED

Article number Biral	2201810350
Nominal width	DN 50
Discharge head max.	18 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	36.0 kg
Characteristic curve	see single pump
Additional information	see section product information



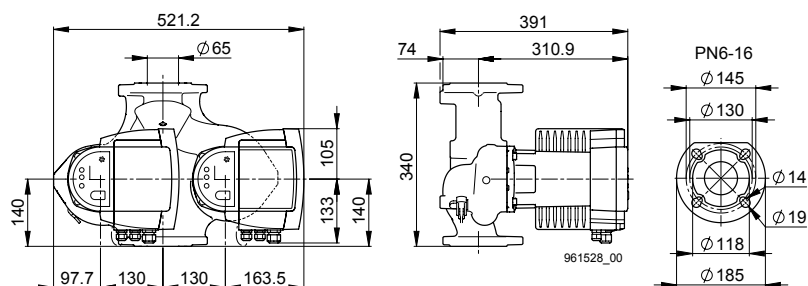
Modula-D 65-8 340 RED

Article number Biral	2201840350
Nominal width	DN 65
Discharge head max.	8 m
Installation length	340 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	42.0 kg
Characteristic curve	see single pump
Additional information	see section product information



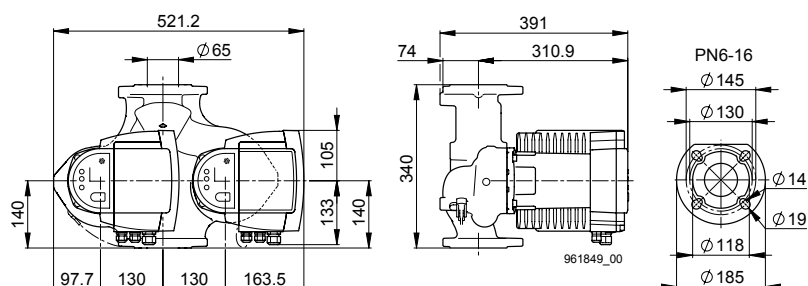
Modula-D 65-12 340 RED

Article number Biral	2201860350
Nominal width	DN 65
Discharge head max.	12 m
Installation length	340 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	42.0 kg
Characteristic curve	see single pump
Additional information	see section product information



Modula-D 65-15 340 RED

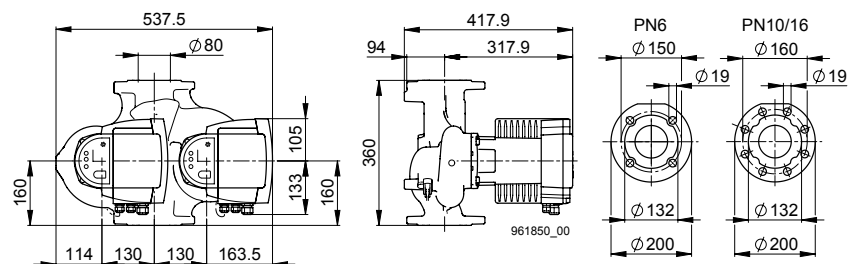
Article number Biral	2201870350
Nominal width	DN 65
Discharge head max.	15 m
Installation length	340 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	48.0 kg
Characteristic curve	see single pump
Additional information	see section product information



ModulA-D 80-8 360 RED PN6

ModulA-D 80-8 360 RED PN10/16

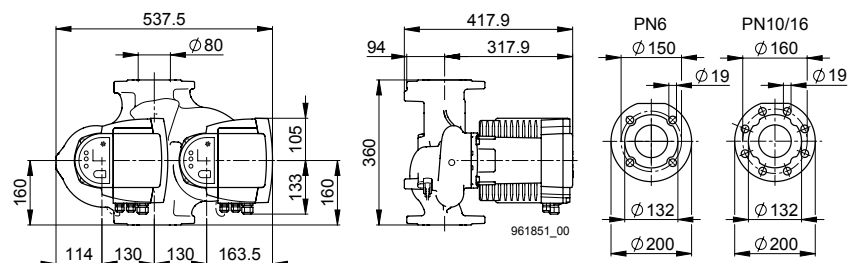
Article number Biral	2201900350
Article number Biral	2201902350
Nominal width	DN 80
Discharge head max.	8 m
Installation length	360 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	58.0 kg
Characteristic curve	see single pump



ModulA-D 80-12 360 RED PN6

ModulA-D 80-12 360 RED PN10/16

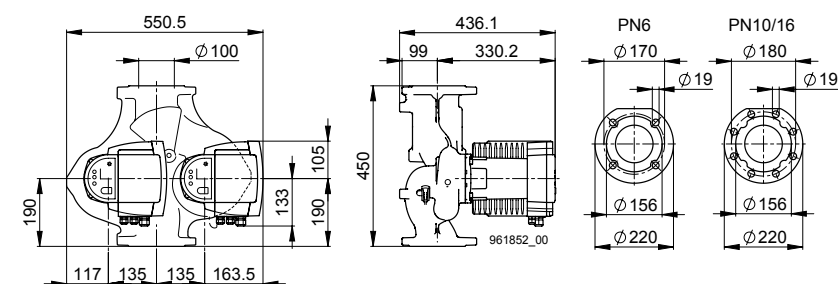
Article number Biral	2201920350
Article number Biral	2201922350
Nominal width	DN 80
Discharge head max.	12 m
Installation length	360 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	58.0 kg
Characteristic curve	see single pump



ModulA-D 100-12 450 RED PN6

ModulA-D 100-12 450 RED PN10/16

Article number Biral	2201980350
Article number Biral	2201982350
Nominal width	DN 100
Discharge head max.	12 m
Installation length	450 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	68.0 kg
Characteristic curve	see single pump





Heating circulation pumps

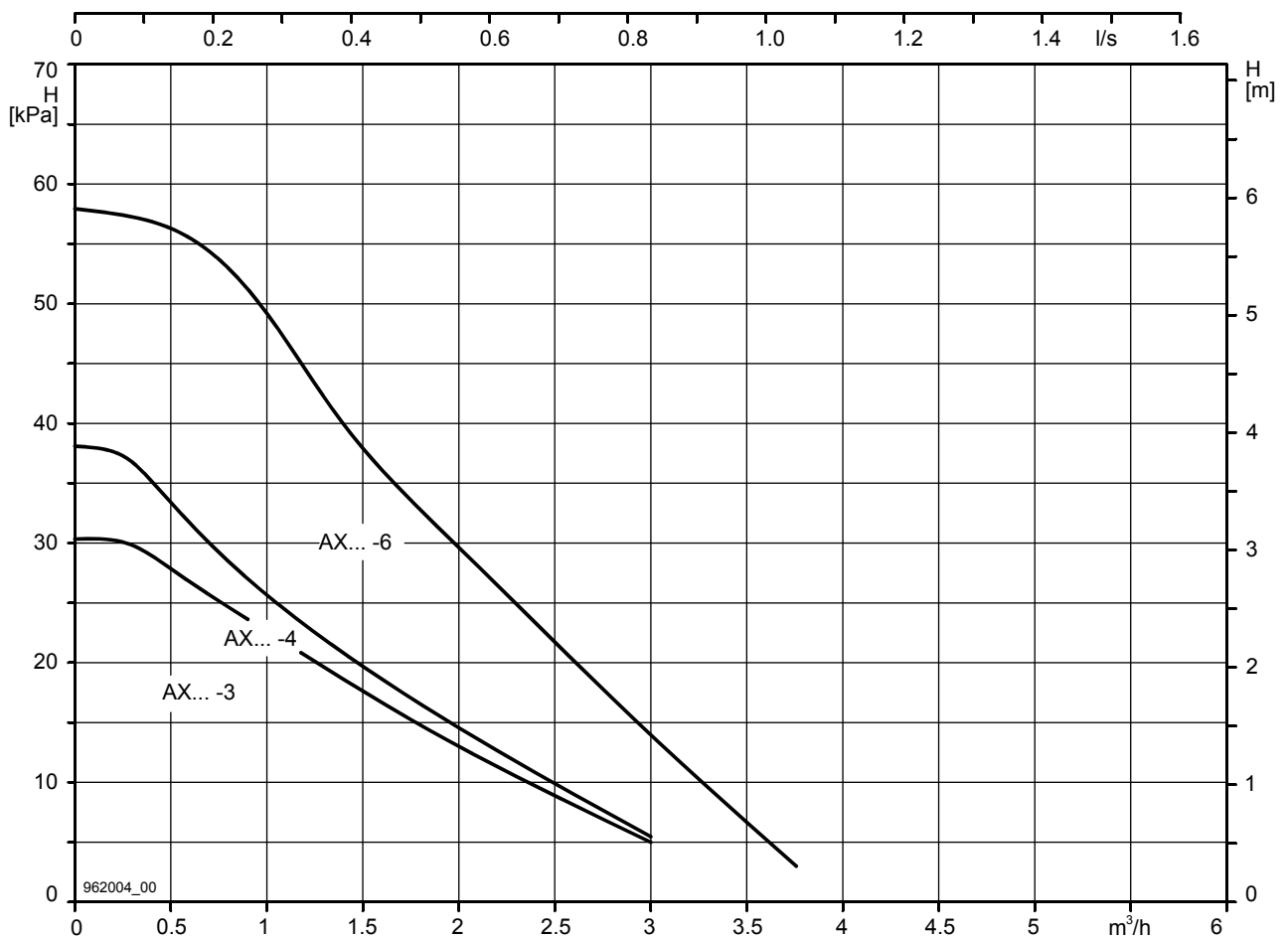
AX... RED

Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.	EEL-value
		DN	m	mm		bar	
AX 25-3 180 RED	2206390150	25	3	180	G 1½"	10	≤0.19
AX 25-4 180 RED	2206400150	25	4	180	G 1½"	10	≤0.20
AX 25-6 180 RED	2206410150	25	6	180	G 1½"	10	≤0.23
AX 32-4 180 RED	2206450150	32	4	180	G 2"	10	≤0.20
AX 32-6 180 RED	2206460150	32	6	180	G 2"	10	≤0.23
AX 32-3 170 RED	2206420150	32	3	170	G 2"	10	≤0.19
AX 32-4 170 RED	2206430150	32	4	170	G 2"	10	≤0.20
AX 32-6 170 RED	2206440150	32	6	170	G 2"	10	≤0.23
AX 15-4 130 RED	2206350150	15	4	130	G 1"	10	≤0.20
AX 15-6 130 RED	2206360150	15	6	130	G 1"	10	≤0.23
AX 25-4 130 RED	2206370150	25	4	130	G 1½"	10	≤0.20
AX 25-6 130 RED	2206380150	25	6	130	G 1½"	10	≤0.23

Ordering reference

	AX	25	-4	180	RED
Series					
Nominal width (DN) [mm]					
Discharge head max. [m]					
Installation height [mm]					
Field of application					
Heating (RED)					
Service water (BLUE)					



AX 25-3 180 RED

AX 32-3 170 RED

Nominal width	DN 25 DN 32
Discharge head max.	3 m
Installation length	180 170 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Net weight	2.3 kg

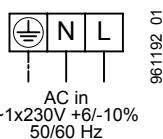
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	4-21 W
Rated current	0.05-0.18 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 90°C water temperature	0.30 bar
at 110°C water temperature	1.10 bar
for every ±100 m altitude	±0.01 bar

Connction diagram

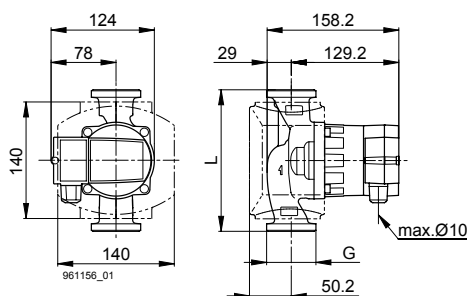


L, N, PE Power supply

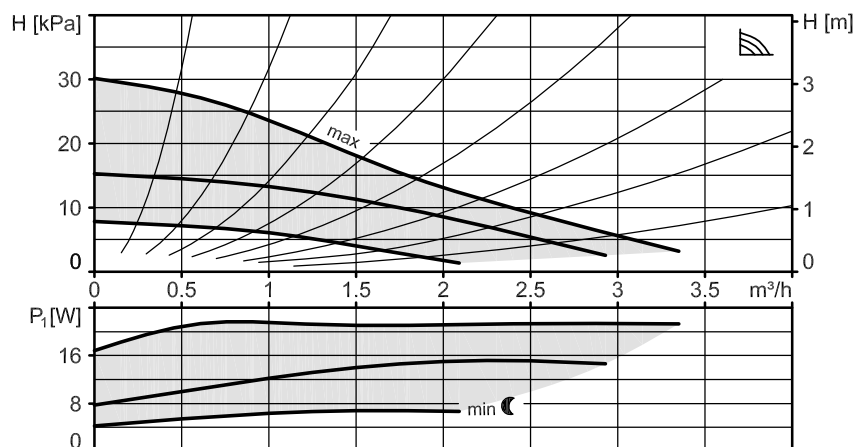
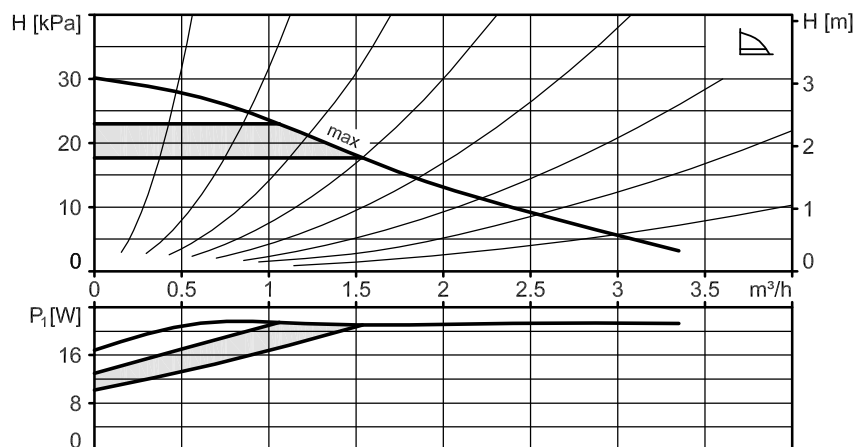
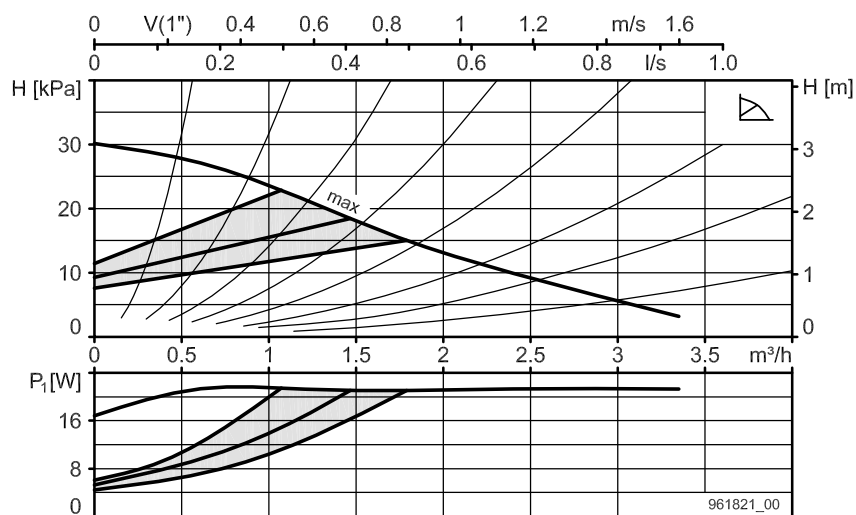
Included in the scope of delivery

– Heat insulation shell

Type	Article number Biral
AX 25-3 180 RED	2206390150
AX 32-3 170 RED	2206420150



AX 25-3 180 RED	AX 32-3 170 RED
DN 25	DN 32
L = 180 mm	L = 170 mm
G = 1½"	G = 2"



AX 25-4 180 RED

AX 32-4 180 RED

AX 32-4 170 RED

AX 15-4 130 RED

AX 25-4 130 RED

Nominal width	DN 25 DN 32 DN 15
Discharge head max.	4 m
Installation length	180 170 130 mm
Threaded connector	G 1½" G 2" G 1"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Net weight	2.3 kg

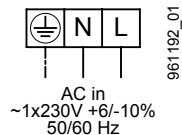
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	5-22 W
Rated current	0.05-0.19 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 90°C water temperature	0.30 bar
at 110°C water temperature	1.10 bar
for every ±100 m altitude	±0.01 bar

Connction diagram

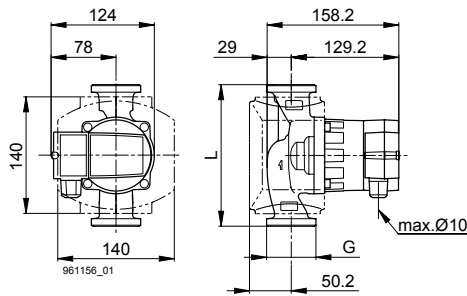


L, N, PE Power supply

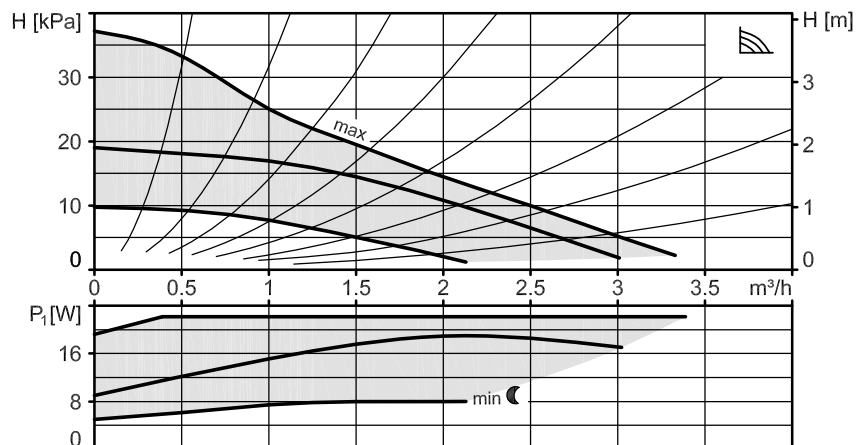
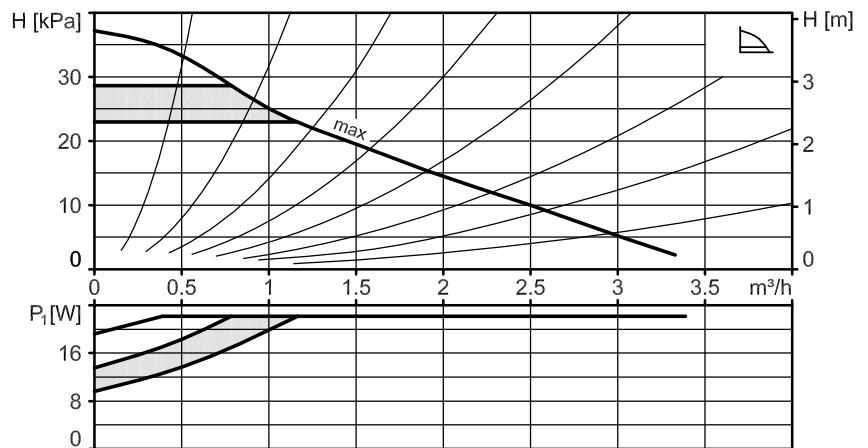
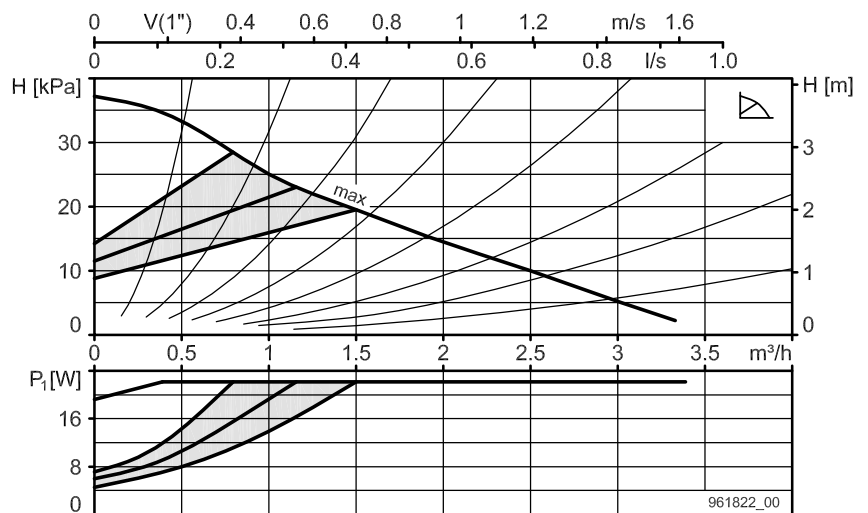
Included in the scope of delivery

– Heat insulation shell

Type	Article number Biral
AX 25-4 180 RED	2206400150
AX 32-4 180 RED	2206450150
AX 32-4 170 RED	2206430150
AX 15-4 130 RED	2206350150
AX 25-4 130 RED	2206370150



AX 25-4 180 RED DN 25 L = 180 mm G = 1½"	AX 32-4 180 RED DN 32 L = 180 mm G = 2"
AX 32-4 170 RED DN 32 L = 170 mm G = 2"	AX 15-4 130 RED DN 15 L = 130 mm G = 1"
AX 25-4 130 RED DN 25 L = 130 mm G = 1½"	



AX 25-6 180 RED

AX 32-6 180 RED

AX 32-6 170 RED

AX 15-6 130 RED

AX 25-6 130 RED

Nominal width	DN 25 DN 32 DN 15
Discharge head max.	6 m
Installation length	180 170 130 mm
Threaded connector	G 1½" G 2" G 1"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+110°C
Net weight	2.3 kg

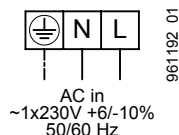
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	5-45 W
Rated current	0.05-0.38 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 90°C water temperature	0.30 bar
at 110°C water temperature	1.10 bar
for every ±100 m altitude	±0.01 bar

Connction diagram

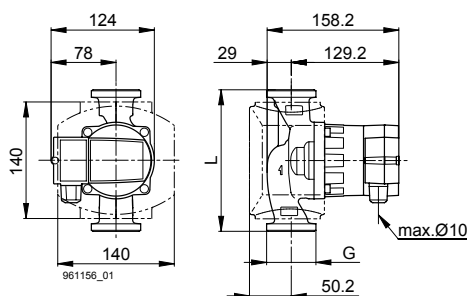


L, N, PE Power supply

Included in the scope of delivery

– Heat insulation shell

Type	Article number Biral
AX 25-6 180 RED	2206410150
AX 32-6 180 RED	2206460150
AX 32-6 170 RED	2206440150
AX 15-6 130 RED	2206360150
AX 25-6 130 RED	2206380150



AX 25-6 180 RED

DN 25
L = 180 mm
G = 1½"

AX 32-6 180 RED

DN 32
L = 180 mm
G = 2"

AX 32-6 170 RED

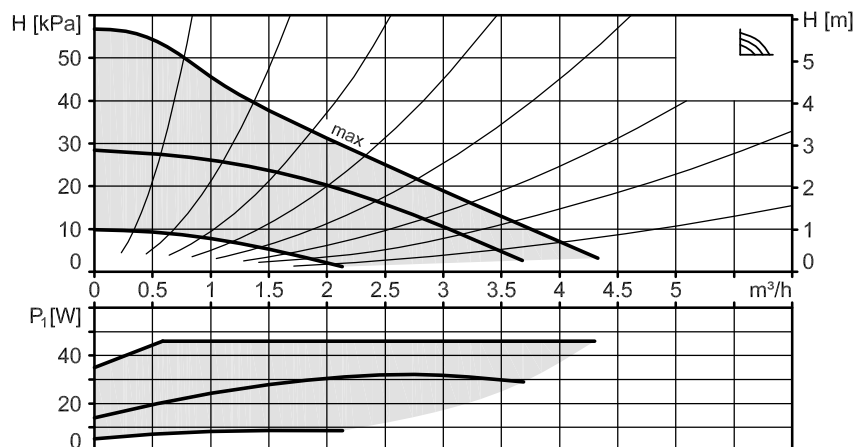
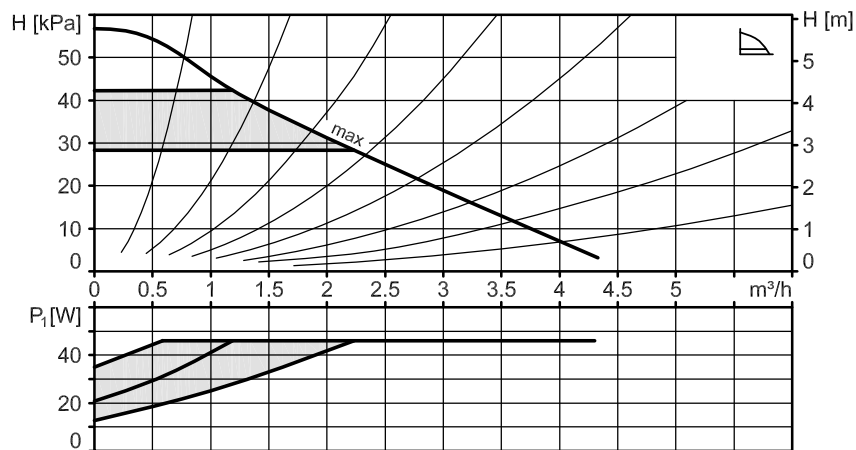
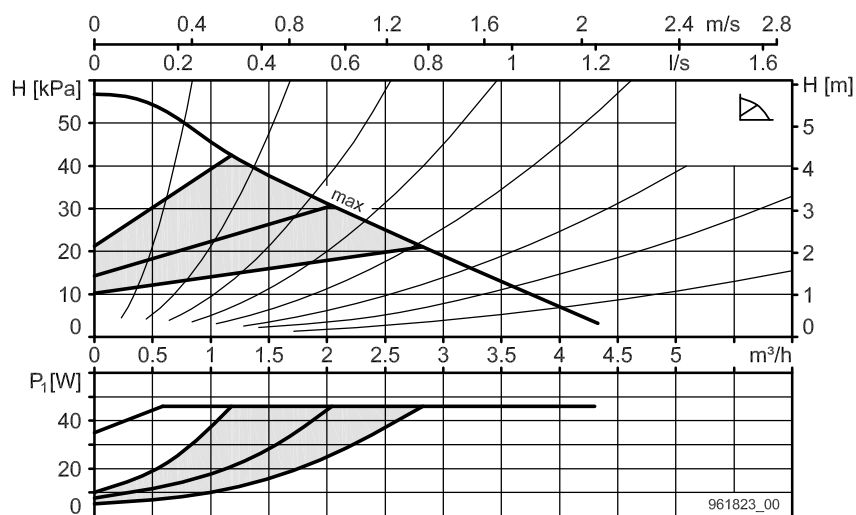
DN 32
L = 170 mm
G = 2"

AX 15-6 130 RED

DN 15
L = 130 mm
G = 1"

AX 25-6 130 RED

DN 25
L = 130 mm
G = 1½"





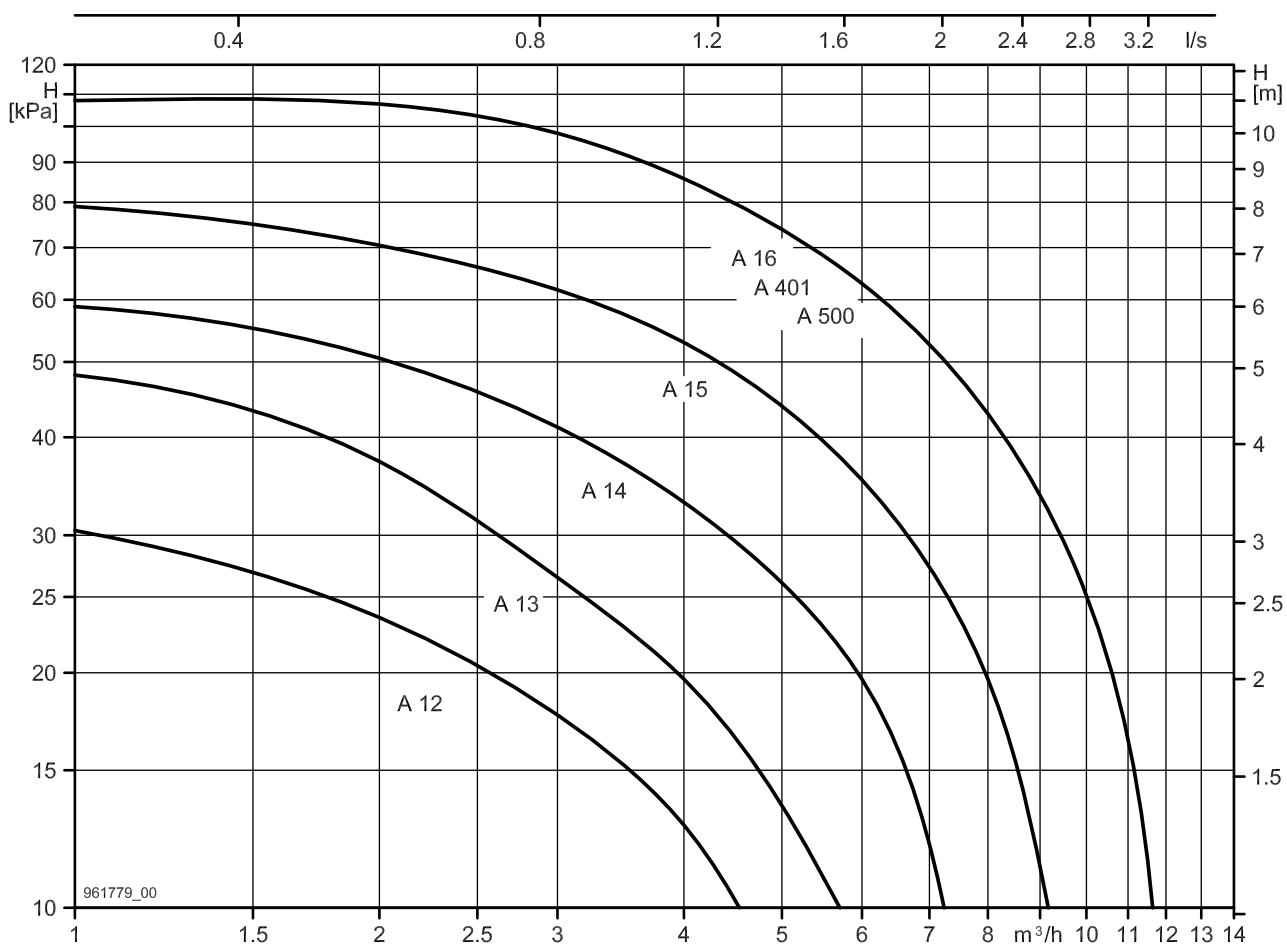
Heating circulation pumps

A 12...A 500

Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.	EEL-value
		DN	m	mm		bar	
A 12	1157380150	32	4	170	G 2"	10	≤0.21
A 13	1157410150	32	5	170	G 2"	10	≤0.21
A 14	1157160150	32	6	170	G 2"	10	≤0.22
A 15	1157190150	32	8	170	G 2"	10	≤0.22
A 12-1	1157390150	25	4	180	G 1½"	10	≤0.21
A 13-1	1157420150	25	5	180	G 1½"	10	≤0.21
A 14-1	1157170150	25	6	180	G 1½"	10	≤0.22
A 15-1	1157200150	25	8	180	G 1½"	10	≤0.22
A 16-1	1160410150	25	11	180	G 1½"	10	≤0.21
A 12-2	1157400150	32	4	180	G 2"	10	≤0.21
A 13-2	1157430150	32	5	180	G 2"	10	≤0.21
A 14-2	1157180150	32	6	180	G 2"	10	≤0.22
A 15-2	1157210150	32	8	180	G 2"	10	≤0.22
A 16-2	1157440150	32	11	180	G 2"	10	≤0.21

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.	EEL-value
		DN	m	mm		bar	
A 401	1157450150	40	11	220	PN 6/10	10	≤0.22
A 401-1	1157460150	40	11	250	PN 6/10	10	≤0.22
A 500	1161360150	50	11	220	PN 6/10	10	≤0.22



A 12

A 12-1

A 12-2

Nominal width	DN 25 DN 32
Discharge head max.	4 m
Installation length	170 180 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	3.8 kg

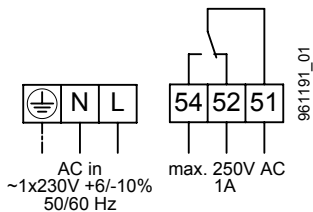
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-33 W
Rated current	0.1-0.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

– Heat insulation shell

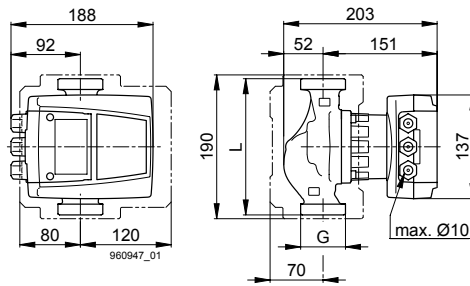
Accessories

- BIM A signal module
- BIM B control module

Comments

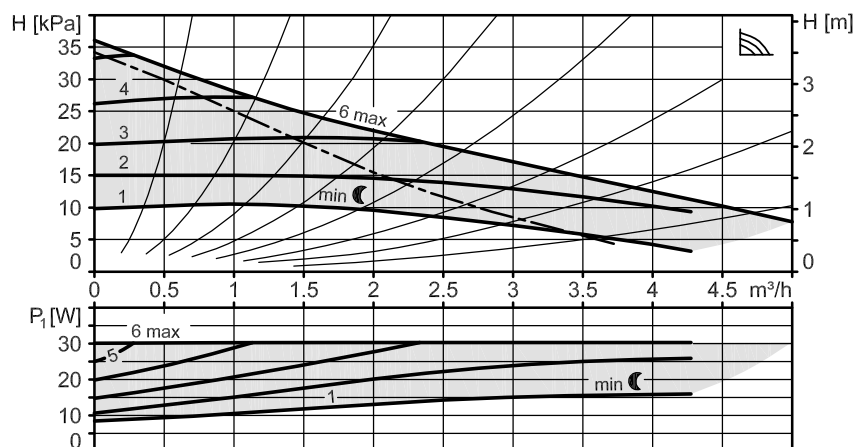
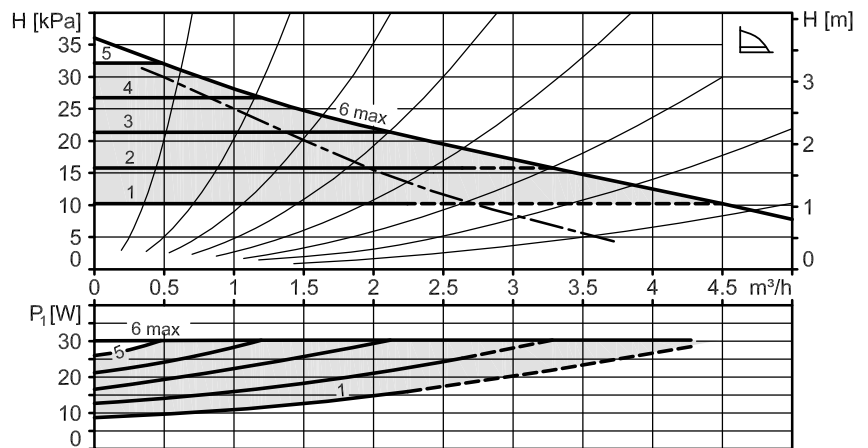
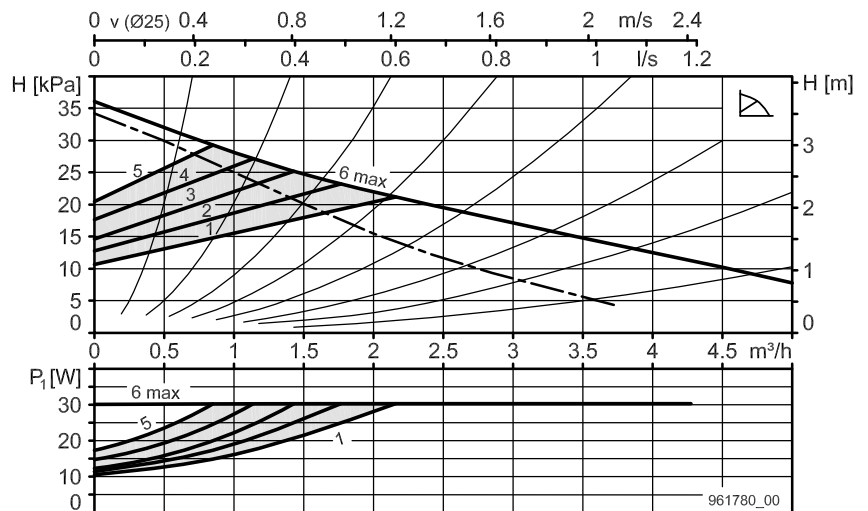
* temporarily (ca. 30 min)

Type	Article number Biral
A 12	1157380150
A 12-1	1157390150
A 12-2	1157400150



A 12	A 12-1
DN 32	DN 25
L = 170 mm	L = 180 mm
G = 2"	G = 1½"

A 12-2
DN 32
L = 180 mm
G = 2"



A 13

A 13-1

A 13-2

Nominal width	DN 25 DN 32
Discharge head max.	5 m
Installation length	170 180 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	3.8 kg

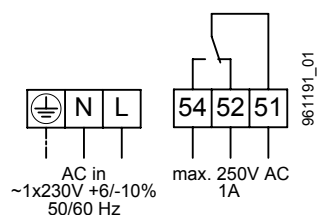
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-50 W
Rated current	0.1-0.35 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

– Heat insulation shell

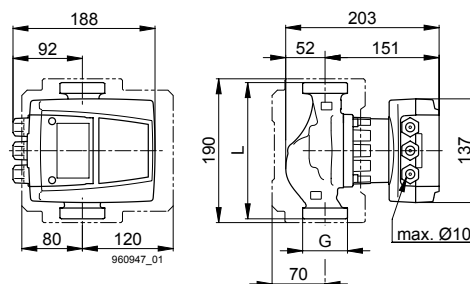
Accessories

- BIM A signal module
- BIM B control module

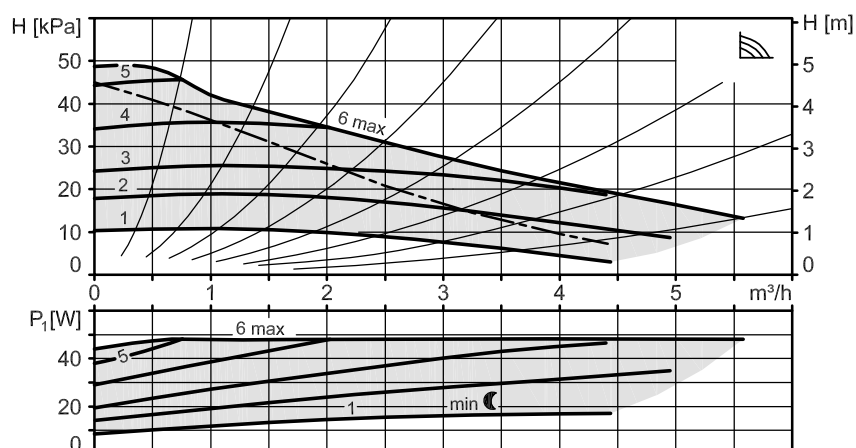
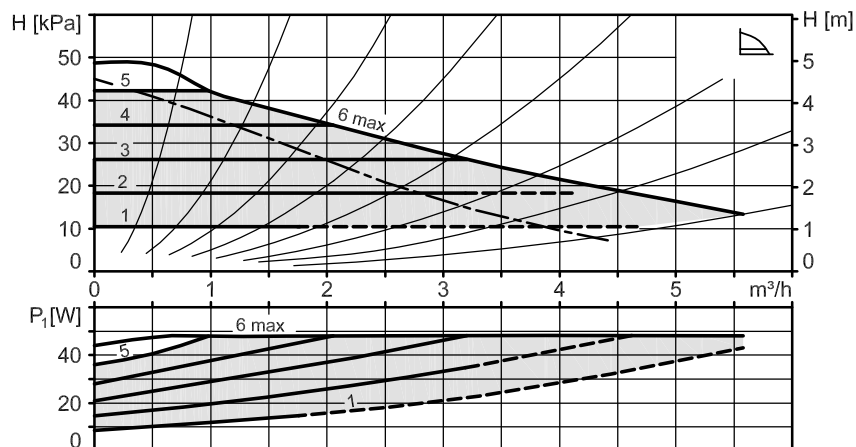
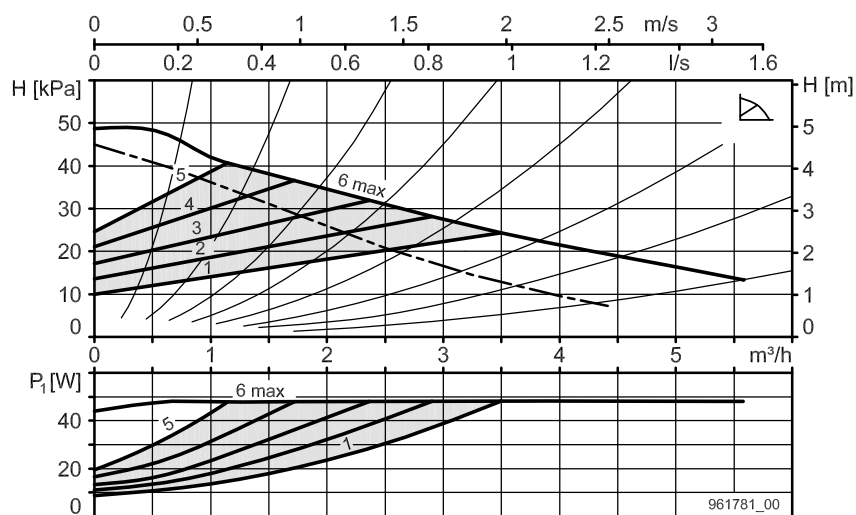
Comments

* temporarily (ca. 30 min)

Type	Article number Biral
A 13	1157410150
A 13-1	1157420150
A 13-2	1157430150



A 13	A 13-1
DN 32	DN 25
L = 170 mm	L = 180 mm
G = 2"	G = 1½"
A 13-2	
DN 32	
L = 180 mm	
G = 2"	



A 14

A 14-1

A 14-2

Nominal width	DN 32 DN 25
Discharge head max.	6 m
Installation length	170 180 mm
Threaded connector	G 2" G 1½"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	3.8 kg

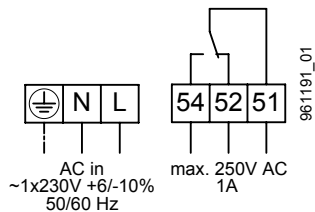
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-70 W
Rated current	0.1-0.5 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

– Heat insulation shell

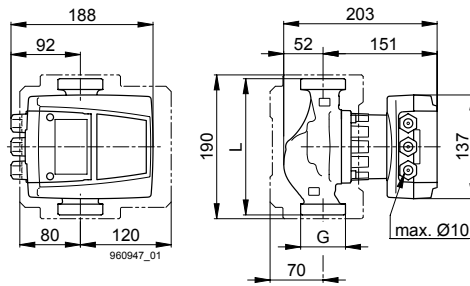
Accessories

- BIM A signal module
- BIM B control module

Comments

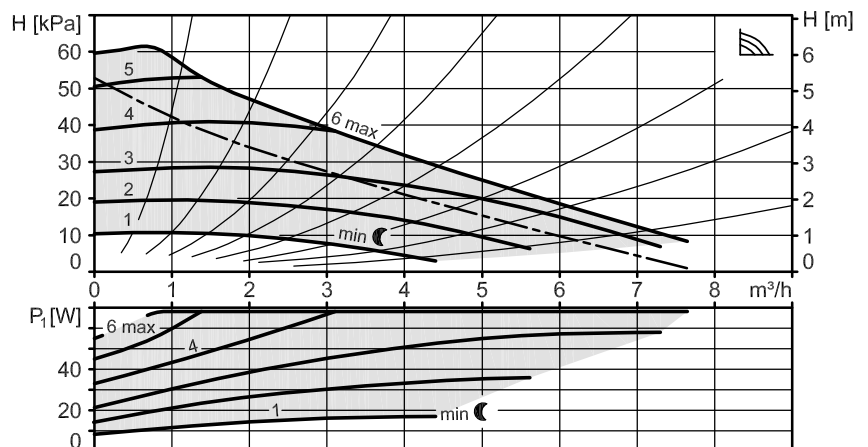
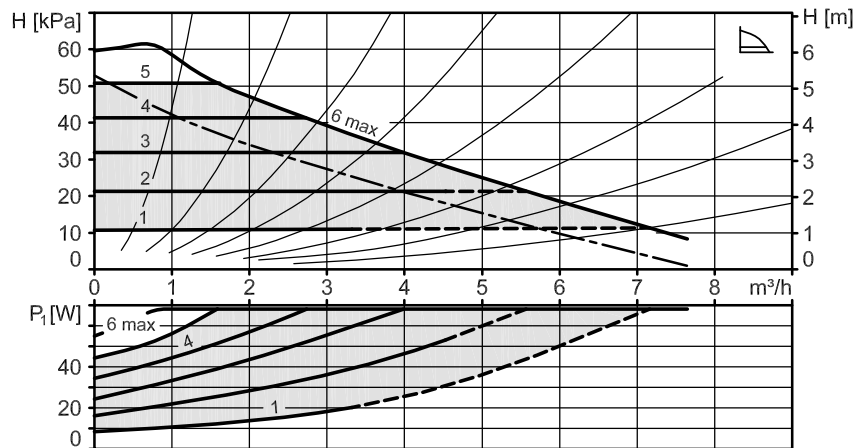
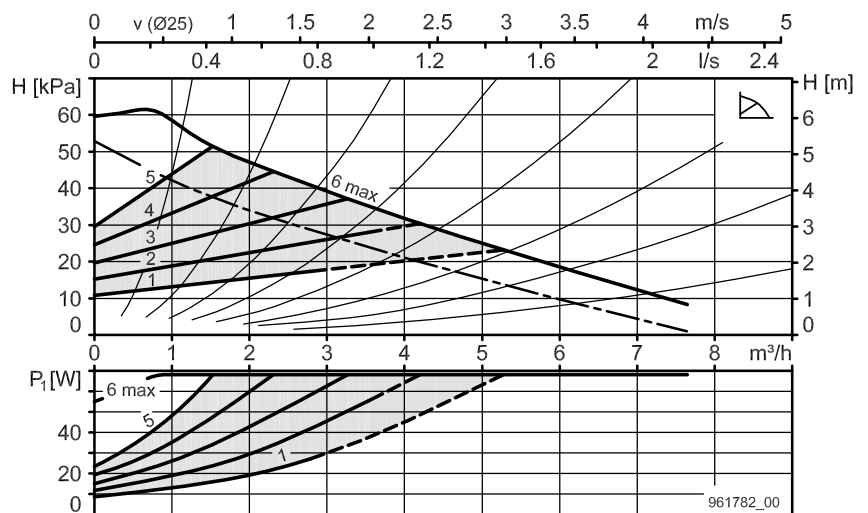
* temporarily (ca. 30 min)

Type	Article number Biral
A 14	1157160150
A 14-1	1157170150
A 14-2	1157180150



A 14	A 14-1
DN 32	DN 25
L = 170 mm	L = 180 mm
G = 2"	G = 1½"

A 14-2
DN 32
L = 180 mm
G = 2"



A 15

A 15-1

A 15-2

Nominal width	DN 25 DN 32
Discharge head max.	8 m
Installation length	170 180 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	3.8 kg

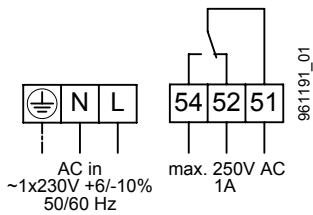
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-107 W
Rated current	0.1-0.8 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

– Heat insulation shell

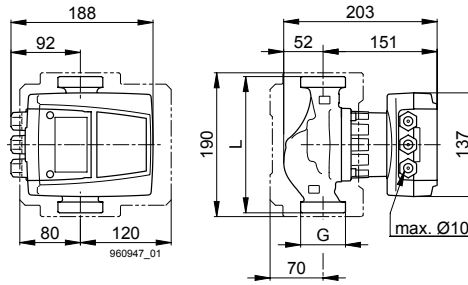
Accessories

- BIM A signal module
- BIM B control module

Comments

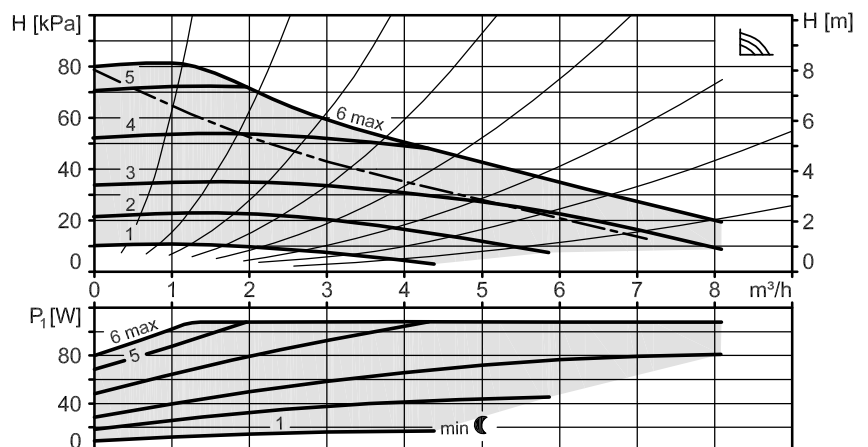
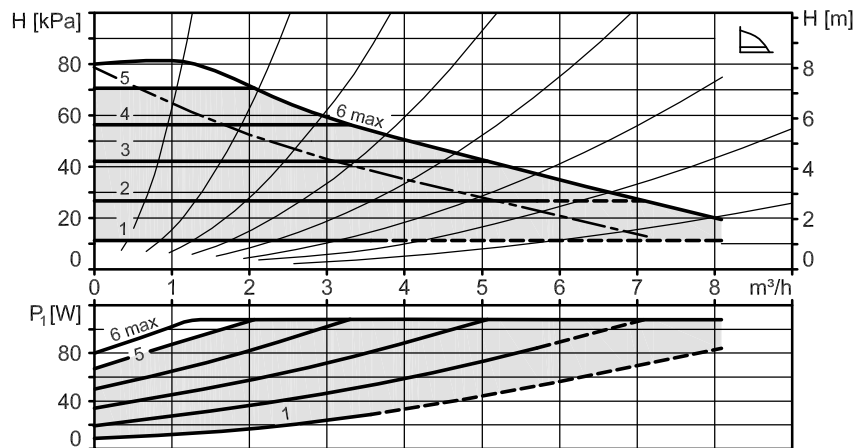
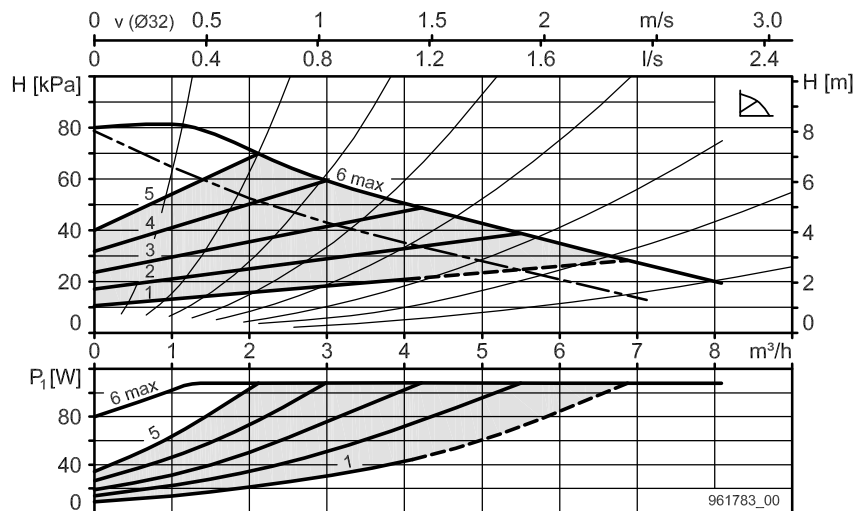
* temporarily (ca. 30 min)

Type	Article number Biral
A 15	1157190150
A 15-1	1157200150
A 15-2	1157210150



A 15	A 15-1
DN 32	DN 25
L = 170 mm	L = 180 mm
G = 2"	G = 1½"

A 15-2
DN 32
L = 180 mm
G = 2"



A 16-1

A 16-2

Nominal width	DN 25 DN 32
Discharge head max.	11 m
Installation length	180 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	3.8 kg

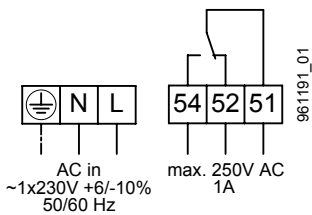
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

- Heat insulation shell

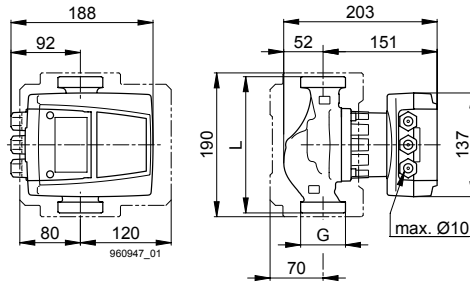
Accessories

- BIM A signal module
- BIM B control module

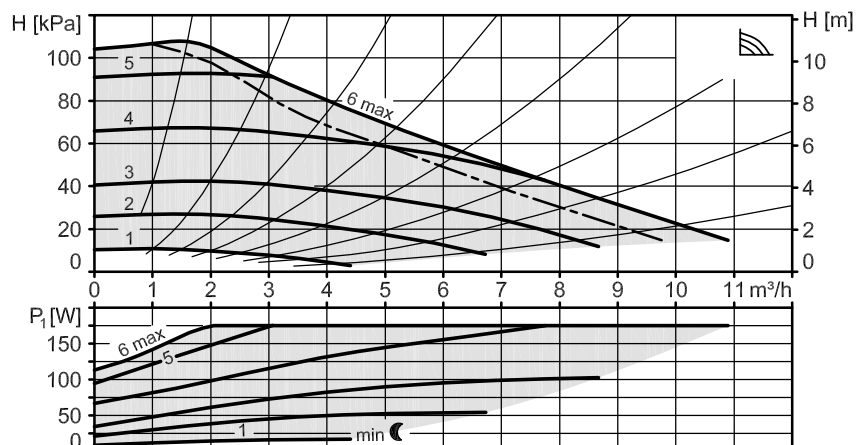
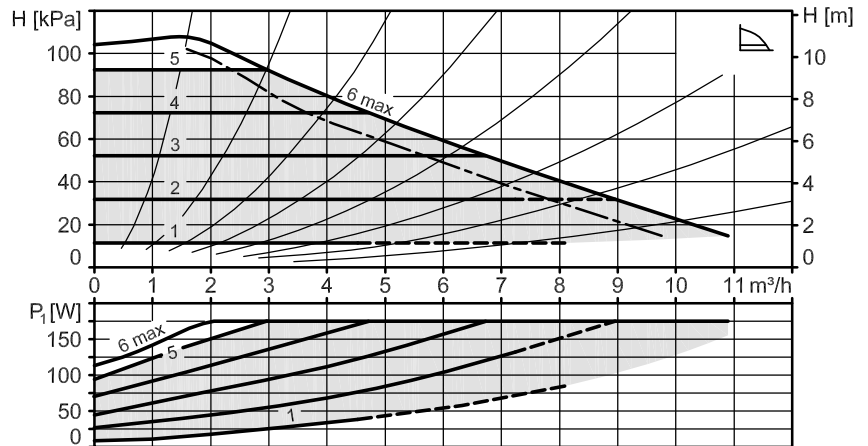
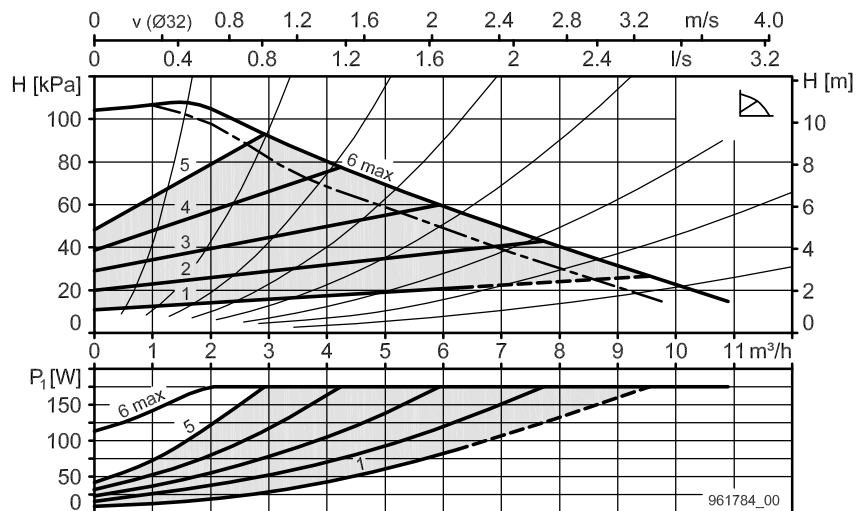
Comments

* temporarily (ca. 30 min)

Type	Article number Biral
A 16-1	1160410150
A 16-2	1157440150



A 16-1	A 16-2
DN 25	DN 32
L = 180 mm	L = 180 mm
G = 1½"	G = 2"



A 401

A 401-1

Nominal width	DN 40
Discharge head max.	11 m
Installation length	220 250 mm
Flange connection	PN 6/10
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	9.0 kg

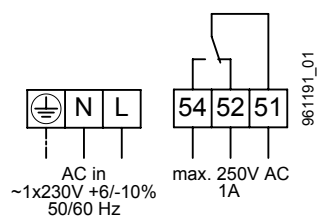
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

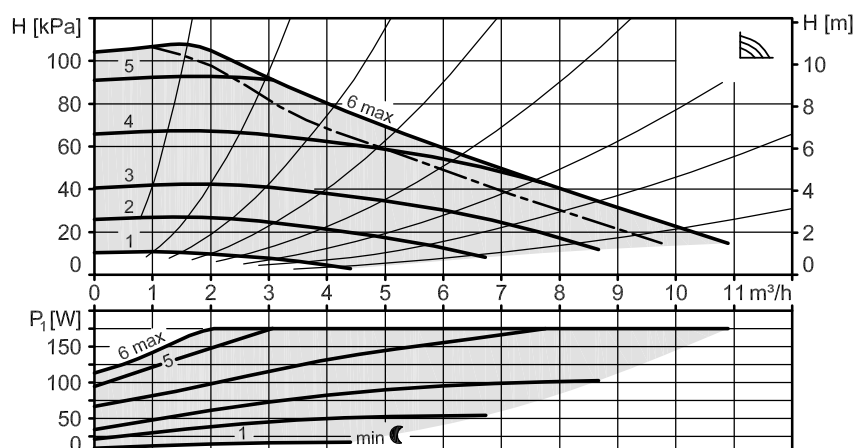
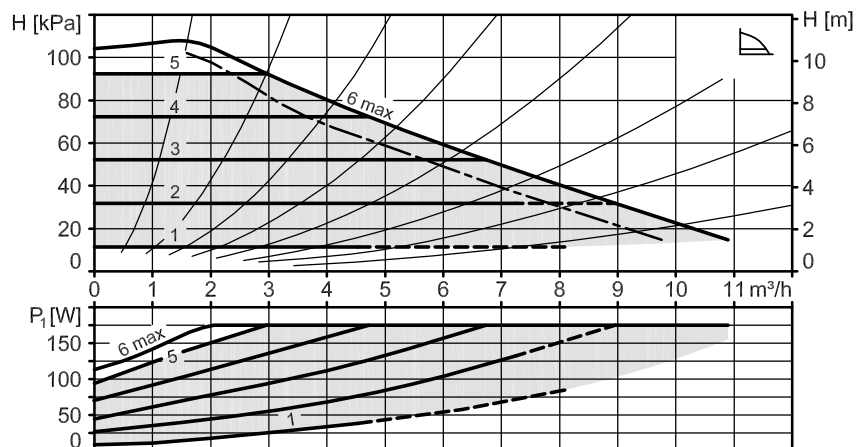
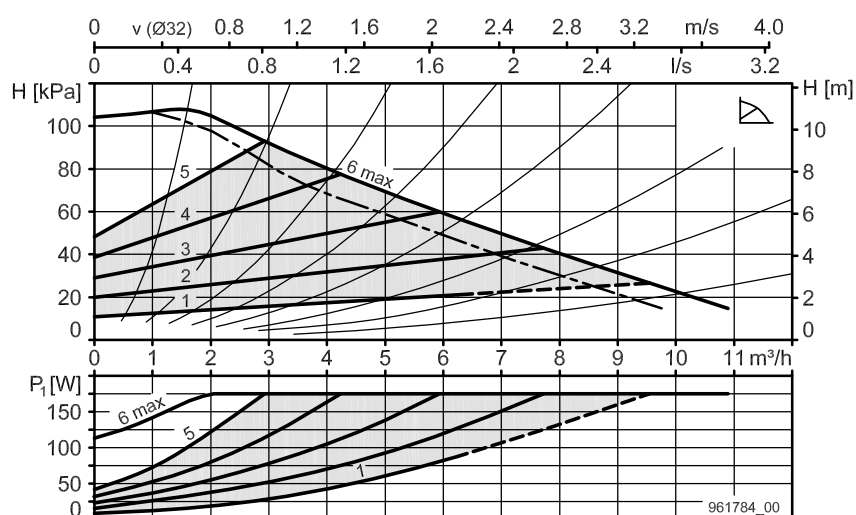
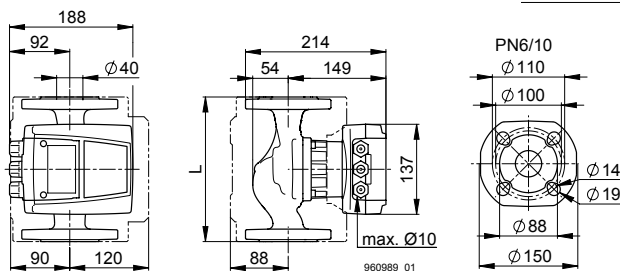
- BIM A signal module
- BIM B control module
- Sealing set for flange PN10 / PN16

Comments

* temporarily (ca. 30 min)

Type	Article number Biral
A 401	1157450150
A 401-1	1157460150

A 401	A 401-1
DN 40	DN 40
L = 220 mm	L = 250 mm



A 500

Nominal width	DN 50
Discharge head max.	11 m
Installation length	220 mm
Flange connection	PN 6/10
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	10.5 kg

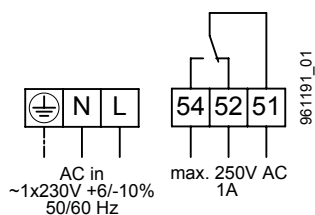
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

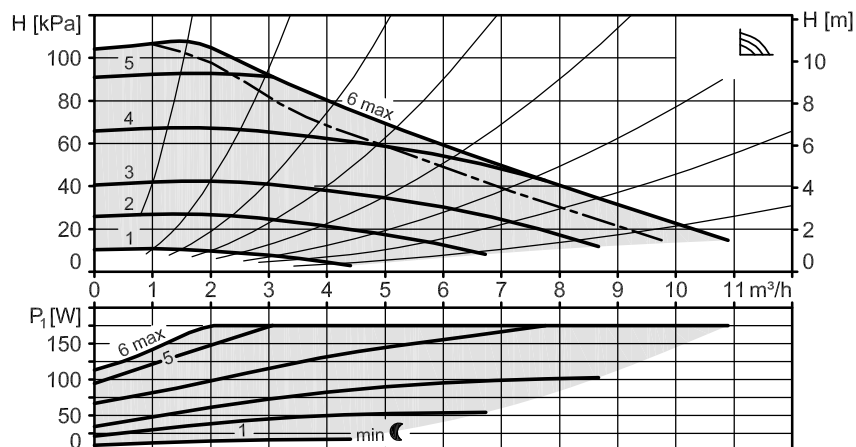
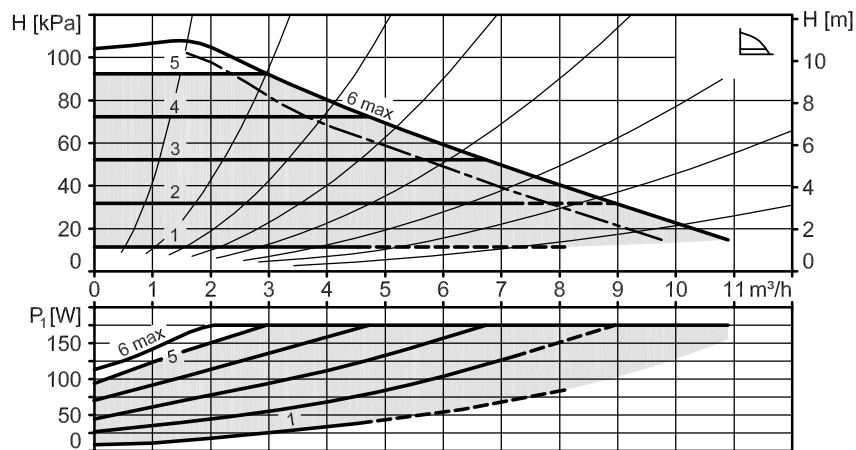
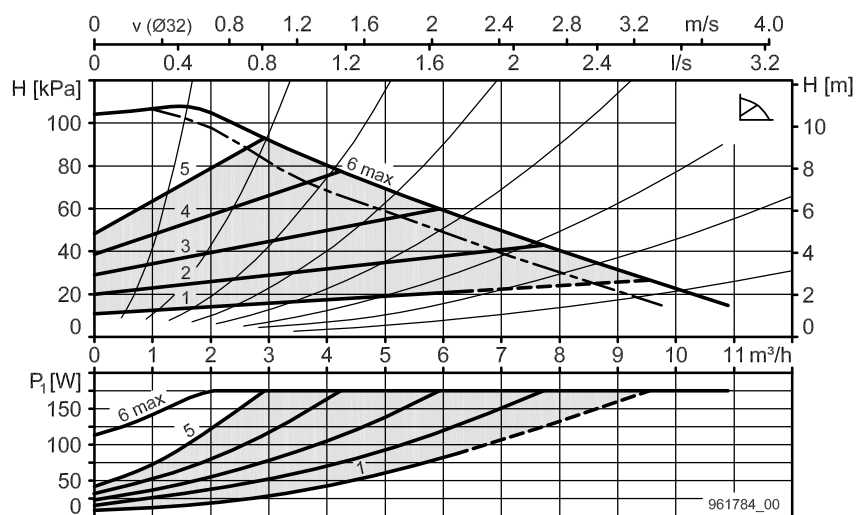
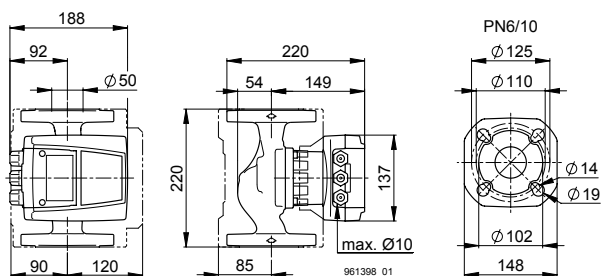
Accessories

- BIM A signal module
- BIM B control module
- Sealing set for flange PN10 / PN16

Comments

* temporarily (ca. 30 min)

Type	Article number Biral
A 500	1161360150





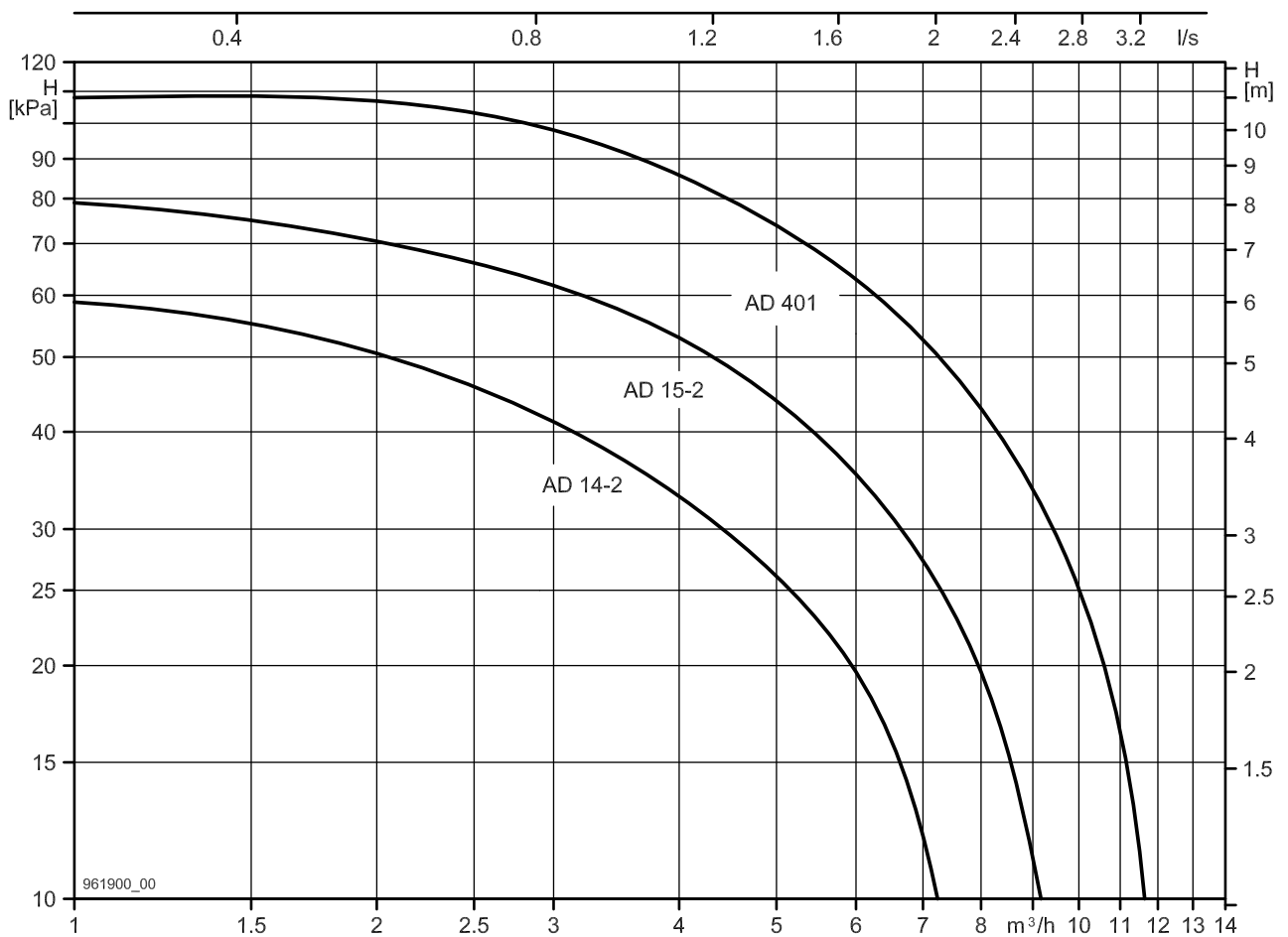
Heating circulation pumps

AD 14...AD 401

Summary

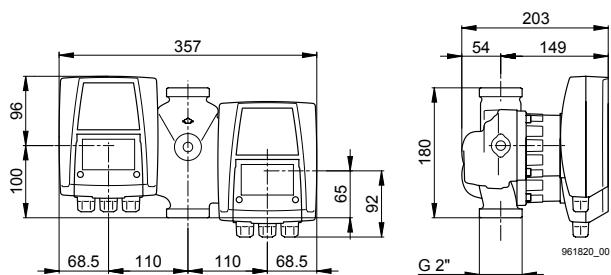
Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.	EEl-value
		DN	m	mm		bar	
AD 14-2	1162520150	32	6	180	G 2"	10	≤0.22
AD 15-2	1162530150	32	8	180	G 2"	10	≤0.22

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.	EEl-value
		DN	m	mm		bar	
AD 401	1157770150	40	11	220	PN 6/10	10	≤0.22



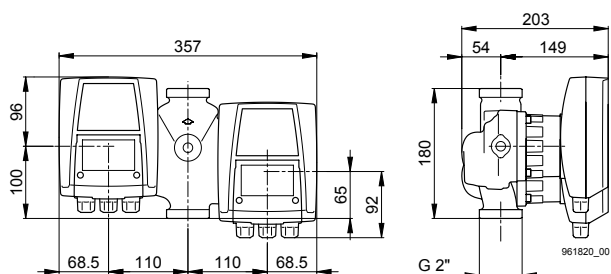
AD 14-2

Article number Biral	1162520150
Nominal width	DN 32
Discharge head max.	6 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	28.2 kg
Characteristic curve	see single pump
Additional information	see section product information



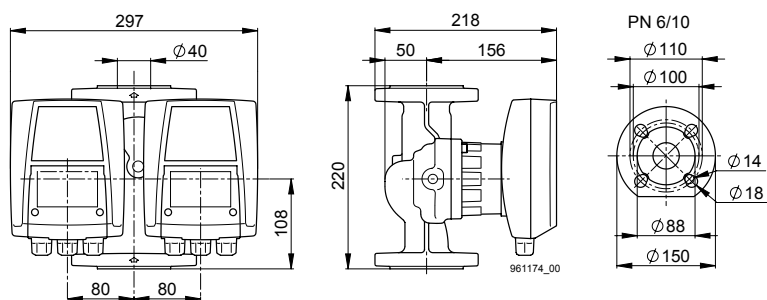
AD 15-2

Article number Biral	1162530150
Nominal width	DN 32
Discharge head max.	8 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	28.2 kg
Characteristic curve	see single pump
Additional information	see section product information



AD 401

Article number Biral	1157770150
Nominal width	DN 40
Discharge head max.	11 m
Installation length	220 mm
Flange connection	PN 6/10
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+95/+110°C *
Ambient temperature	max. 40°C
Net weight	30.0 kg
Characteristic curve	see single pump
Additional information	see section product information





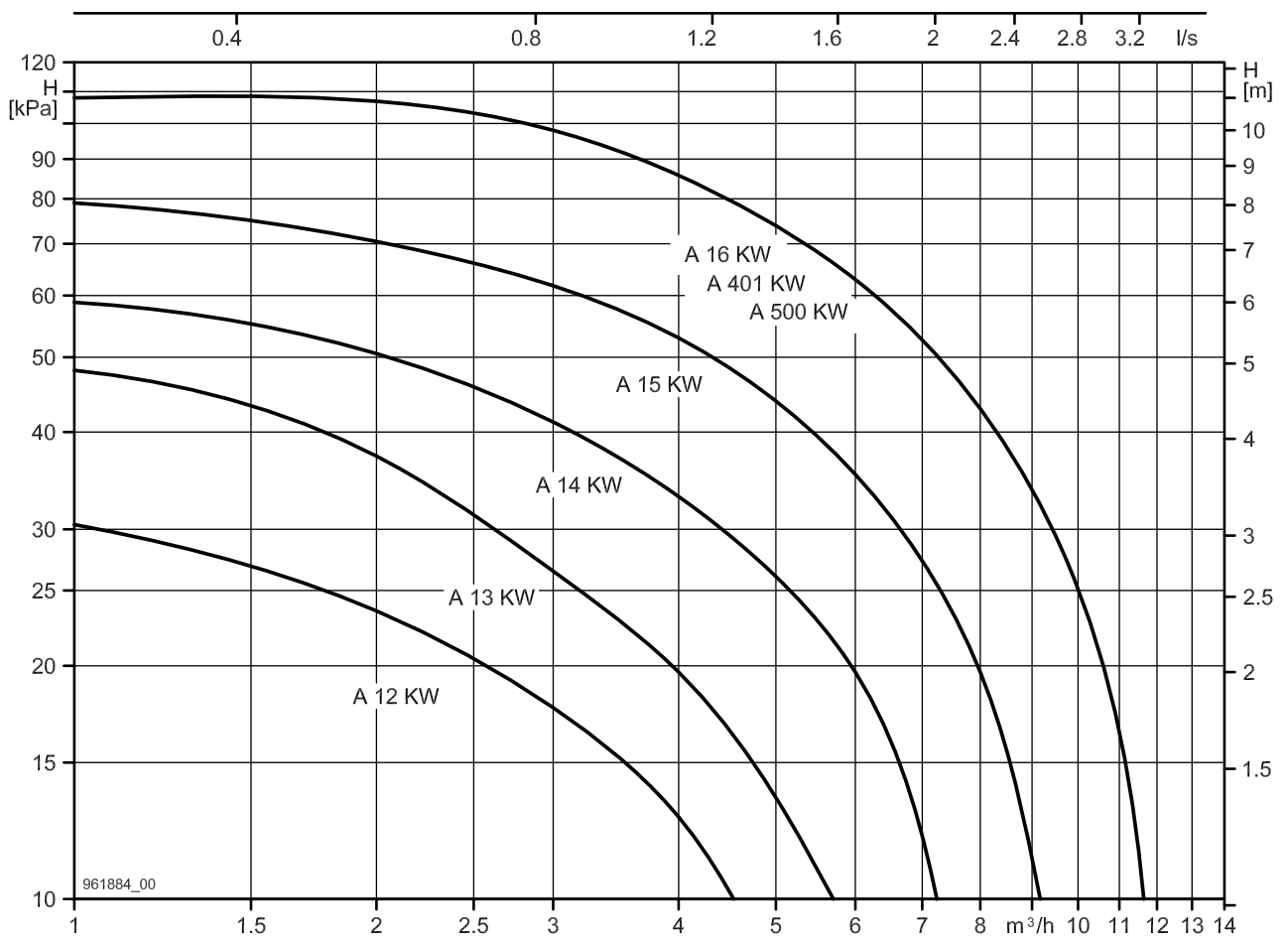
Cold water circulation pumps

A... KW

Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.	EEL-value
		DN	m	mm		bar	
A 12-1 KW	1159791160	25	4	180	G 1½"	10	≤0.21
A 13-1 KW	1159821160	25	5	180	G 1½"	10	≤0.21
A 14-1 KW	1159851160	25	6	180	G 1½"	10	≤0.22
A 15-1 KW	1159881160	25	8	180	G 1½"	10	≤0.22
A 16-1 KW	1161231160	25	11	180	G 1½"	10	≤0.21
A 12-2 KW	1159801160	32	4	180	G 2"	10	≤0.21
A 13-2 KW	1159831160	32	5	180	G 2"	10	≤0.21
A 14-2 KW	1159861160	32	6	180	G 2"	10	≤0.22
A 15-2 KW	1159891160	32	8	180	G 2"	10	≤0.22
A 16-2 KW	1159901160	32	11	180	G 2"	10	≤0.21
A 12 KW	1159781160	32	4	170	G 2"	10	≤0.21
A 13 KW	1159811160	32	5	170	G 2"	10	≤0.21
A 14 KW	1159841160	32	6	170	G 2"	10	≤0.22
A 15 KW	1159871160	32	8	170	G 2"	10	≤0.22

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.	EEL-value
		DN	m	mm		bar	
A 401 KW	1159911160	40	11	220	PN 6/10	10	≤0.22
A 401-1 KW	1159921160	40	11	250	PN 6/10	10	≤0.22
A 500 KW	1161371160	50	11	220	PN 6/10	10	≤0.22



A 12-1 KW

A 12-2 KW

A 12 KW

Nominal width	DN 25 DN 32
Discharge head max.	4 m
Installation length	180 170 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	-10°C
Media temperature max.	+95°C
Ambient temperature	max. 40°C
Net weight	3.8 kg

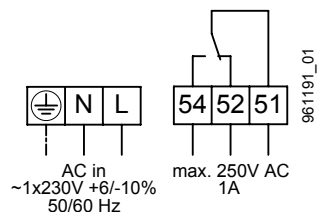
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-33 W
Rated current	0.1-0.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

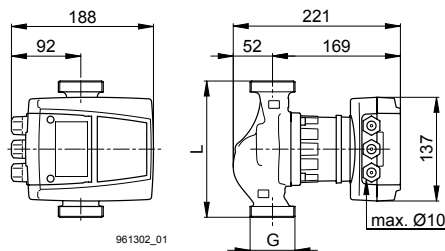
Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

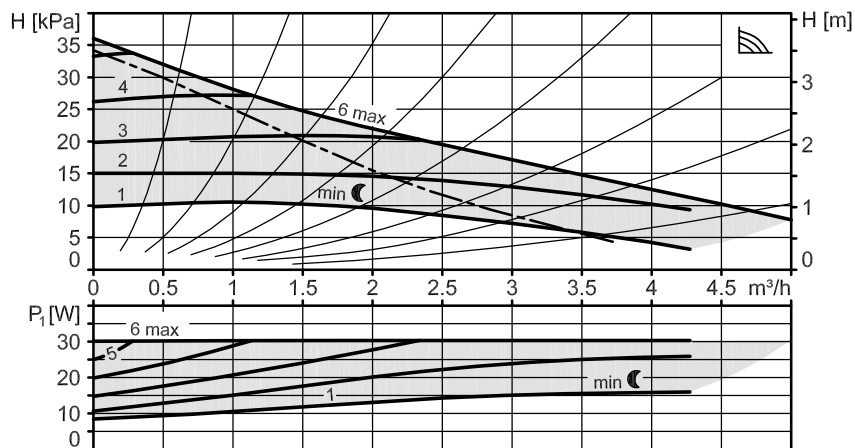
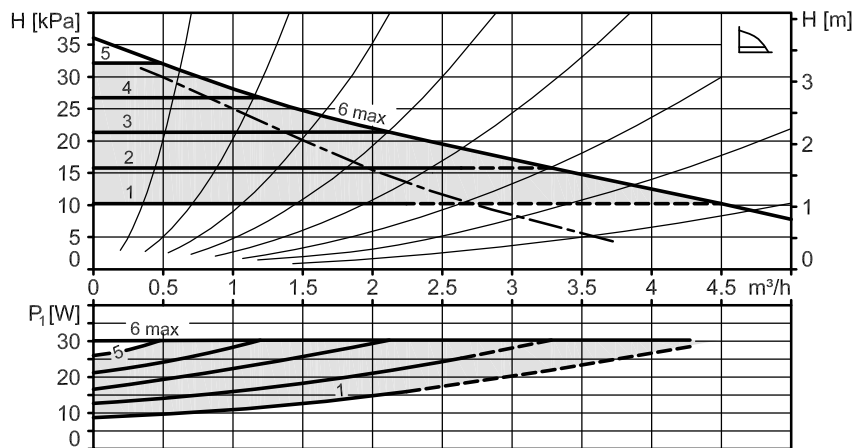
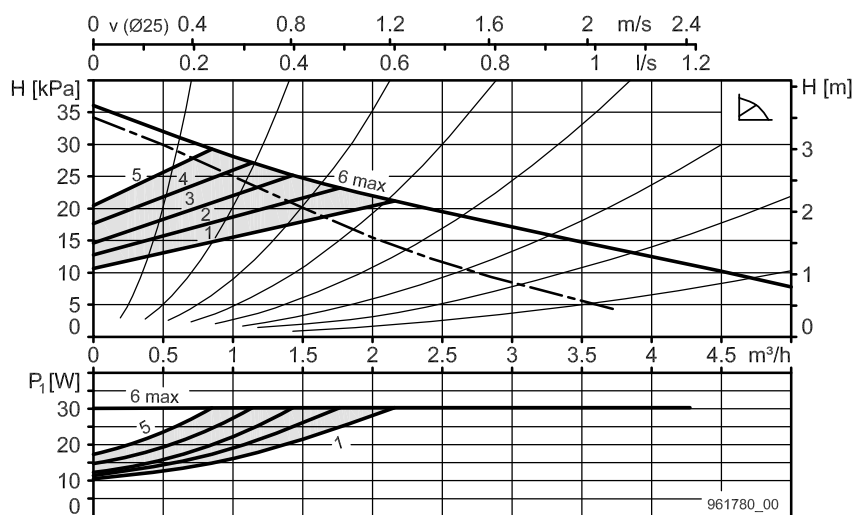
Accessories

- BIM A signal module
- BIM B control module

Type	Article number Biral
A 12-1 KW	1159791160
A 12-2 KW	1159801160
A 12 KW	1159781160



A 12-1 KW	A 12-2 KW
DN 25	DN 32
L = 180 mm	L = 180 mm
G = 1½"	G = 2"
A 12 KW	
DN 32	
L = 170 mm	
G = 2"	



A 13-1 KW

A 13-2 KW

A 13 KW

Nominal width	DN 25 DN 32
Discharge head max.	5 m
Installation length	180 170 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	-10°C
Media temperature max.	+95°C
Ambient temperature	max. 40°C
Net weight	3.8 kg

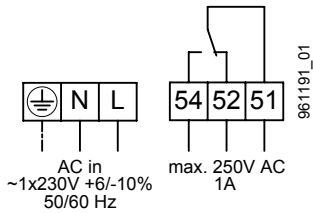
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-50 W
Rated current	0.1-0.35 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

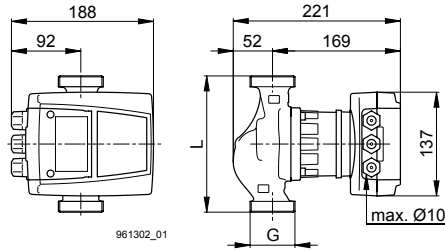
Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Accessories

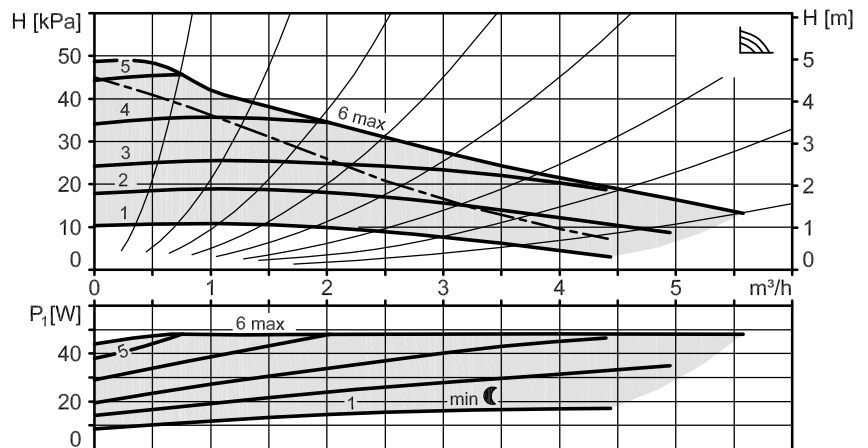
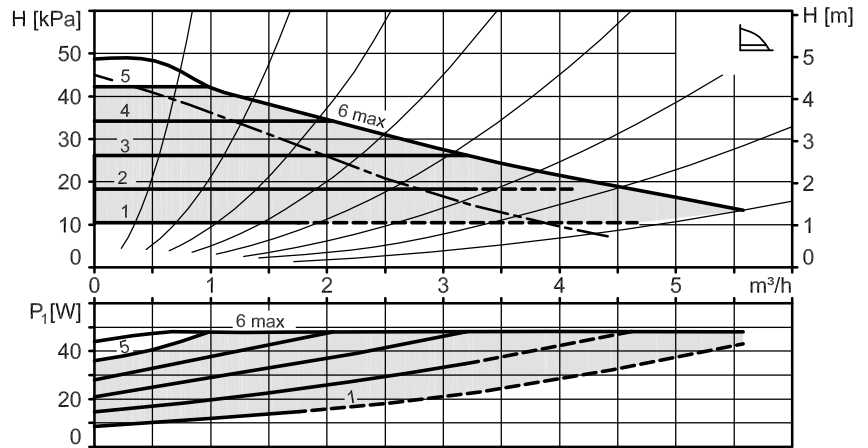
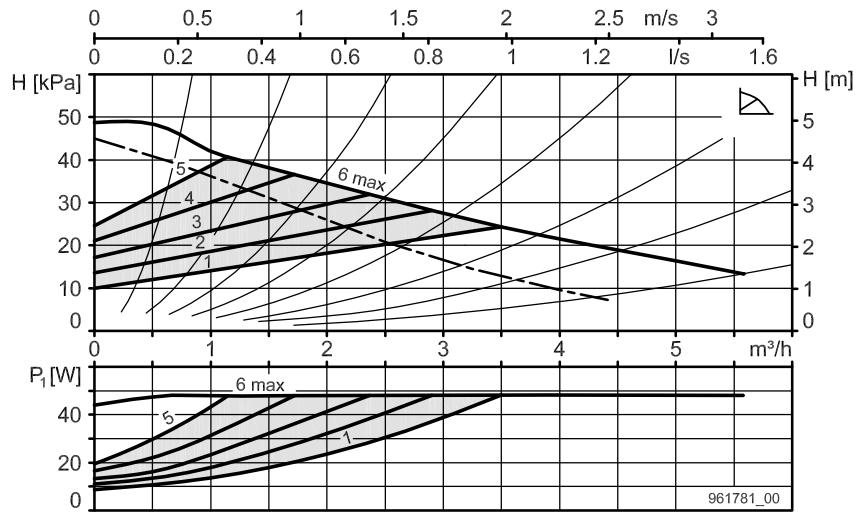
- BIM A signal module
- BIM B control module

Type	Article number Biral
A 13-1 KW	1159821160
A 13-2 KW	1159831160
A 13 KW	1159811160



A 13-1 KW	A 13-2 KW
DN 25	DN 32
L = 180 mm	L = 180 mm
G = 1½"	G = 2"

A 13 KW
DN 32
L = 170 mm
G = 2"



A 14-1 KW

A 14-2 KW

A 14 KW

Nominal width	DN 25 DN 32
Discharge head max.	6 m
Installation length	180 170 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	-10°C
Media temperature max.	+95°C
Ambient temperature	max. 40°C
Net weight	3.8 kg

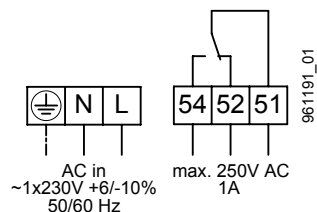
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-70 W
Rated current	0.1-0.5 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

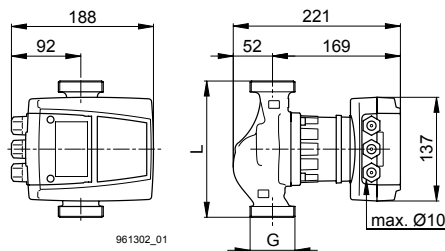
Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Accessories

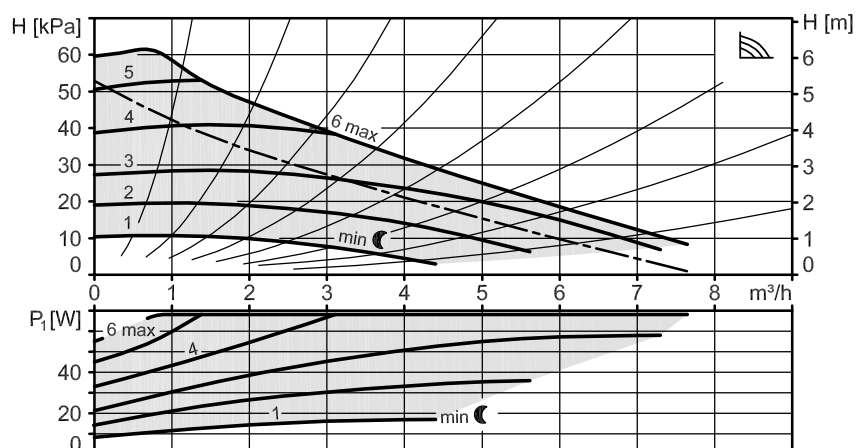
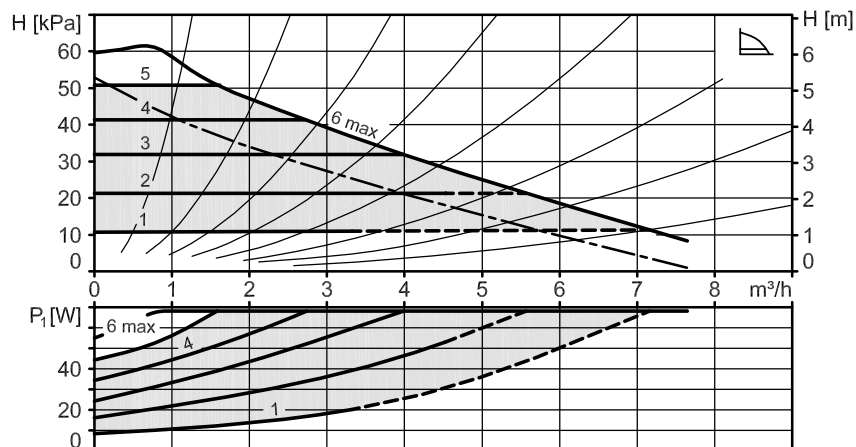
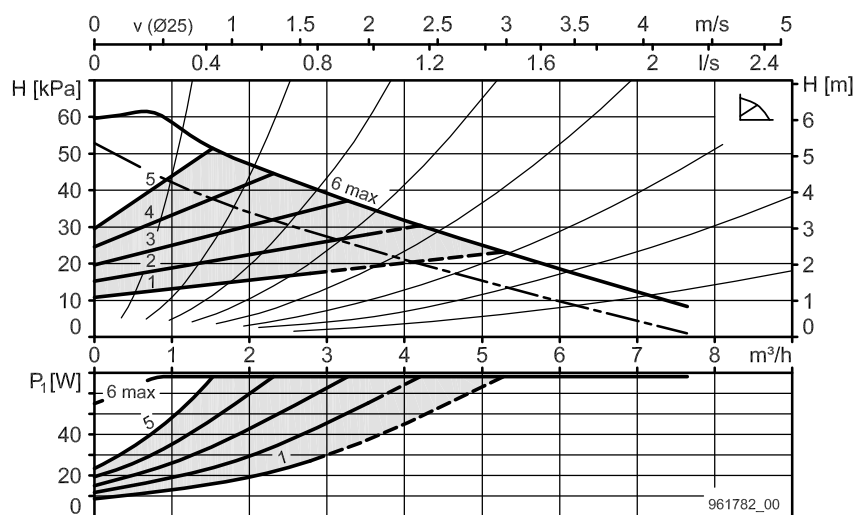
- BIM A signal module
- BIM B control module

Type	Article number Biral
A 14-1 KW	1159851160
A 14-2 KW	1159861160
A 14 KW	1159841160



A 14-1 KW	A 14-2 KW
DN 25	DN 32
L = 180 mm	L = 180 mm
G = 1½"	G = 2"

A 14 KW
DN 32
L = 170 mm
G = 2"



A 15-1 KW

A 15-2 KW

A 15 KW

Nominal width	DN 25 DN 32
Discharge head max.	8 m
Installation length	180 170 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	-10°C
Media temperature max.	+95°C
Ambient temperature	max. 40°C
Net weight	3.8 kg

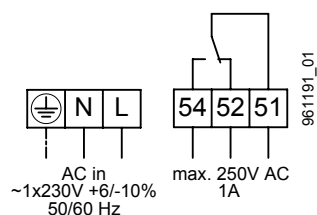
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-107 W
Rated current	0.1-0.8 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

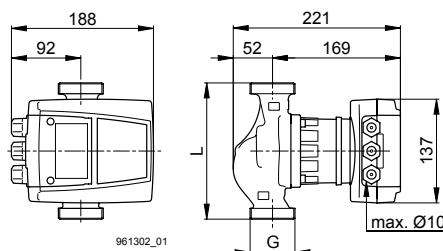
Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

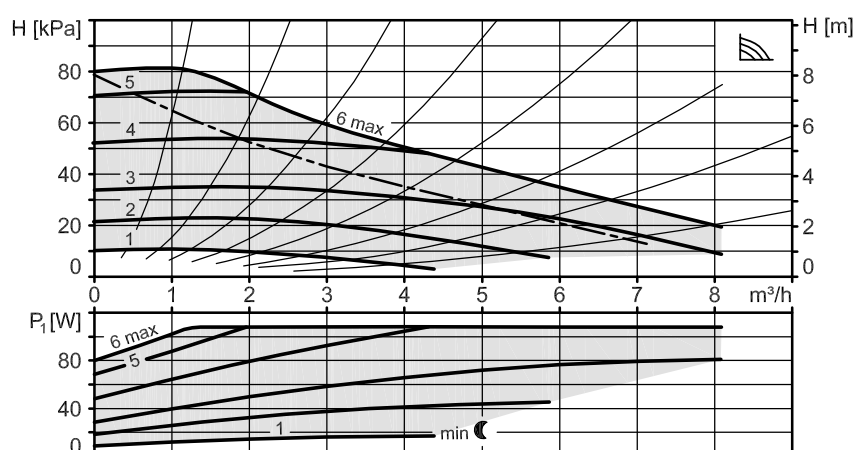
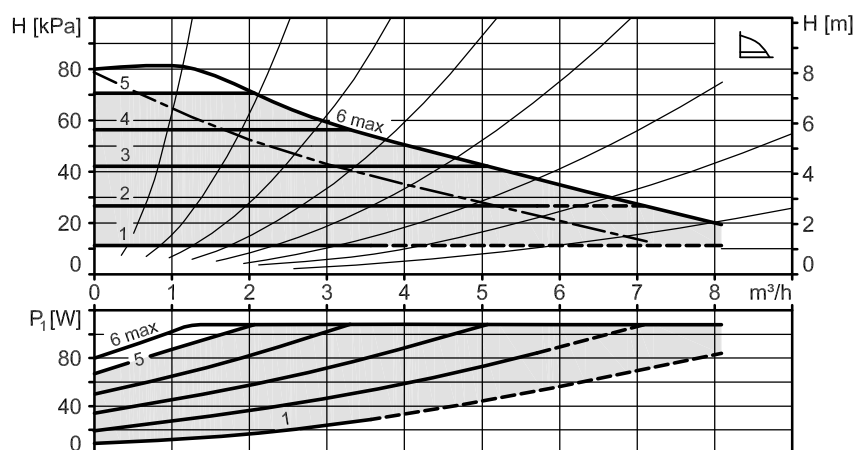
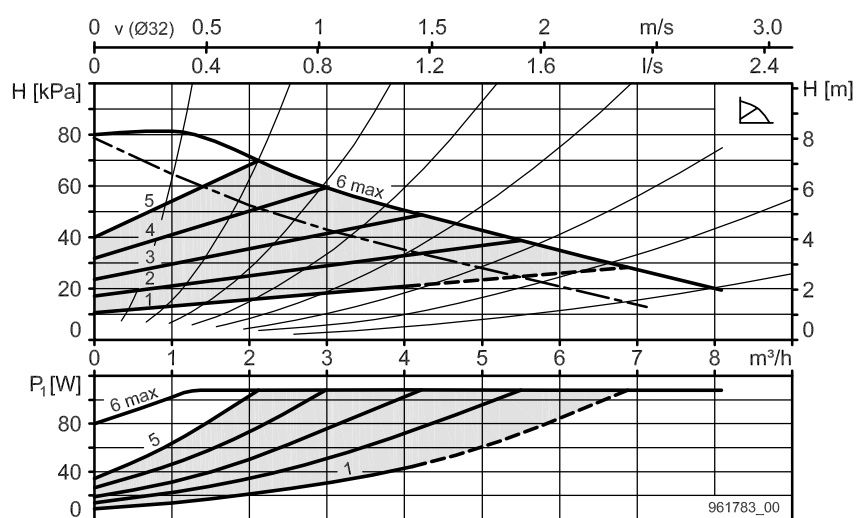
Accessories

- BIM A signal module
- BIM B control module

Type	Article number Biral
A 15-1 KW	1159881160
A 15-2 KW	1159891160
A 15 KW	1159871160



A 15-1 KW	A 15-2 KW
DN 25	DN 32
L = 180 mm	L = 180 mm
G = 1½"	G = 2"
A 15 KW	
DN 32	
L = 170 mm	
G = 2"	



A 16-1 KW

A 16-2 KW

Nominal width	DN 25 DN 32
Discharge head max.	11 m
Installation length	180 mm
Threaded connector	G 1½" G 2"
Operating pressure max.	10 bar
Media temperature min.	-10°C
Media temperature max.	+95°C
Ambient temperature	max. 40°C
Net weight	3.8 kg

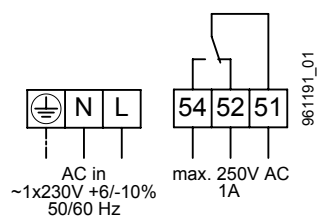
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P ₁	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

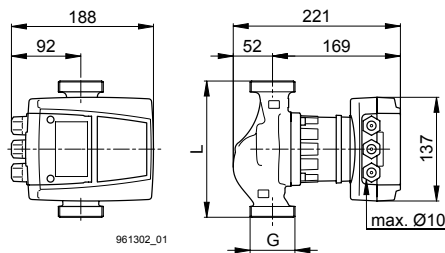
Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

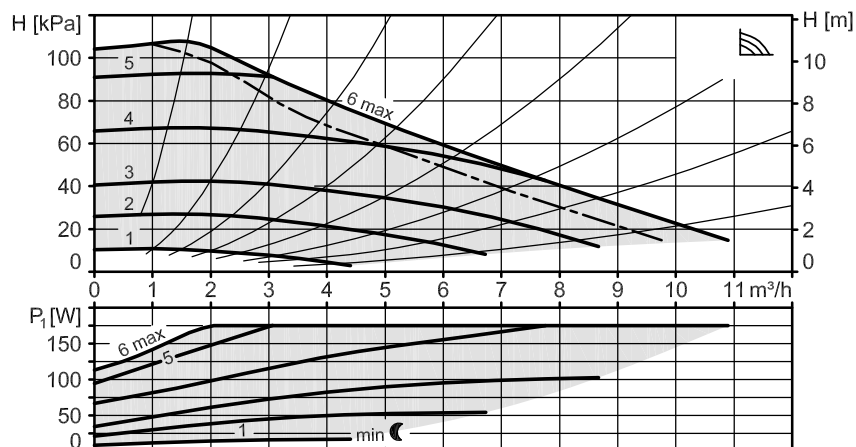
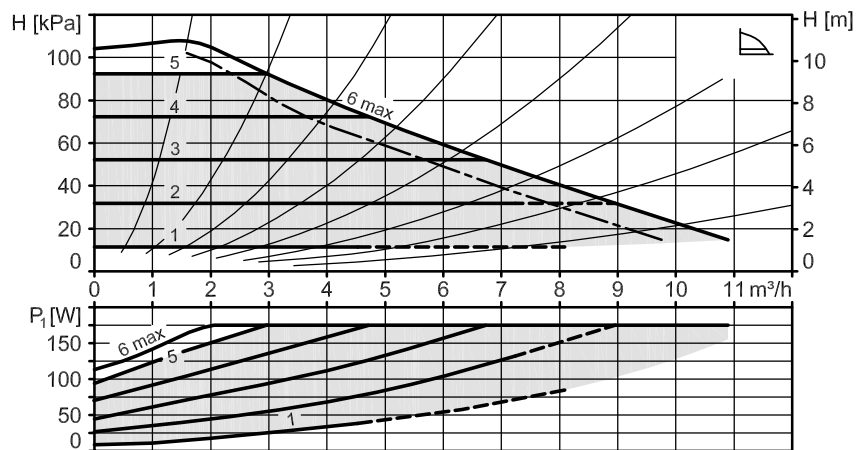
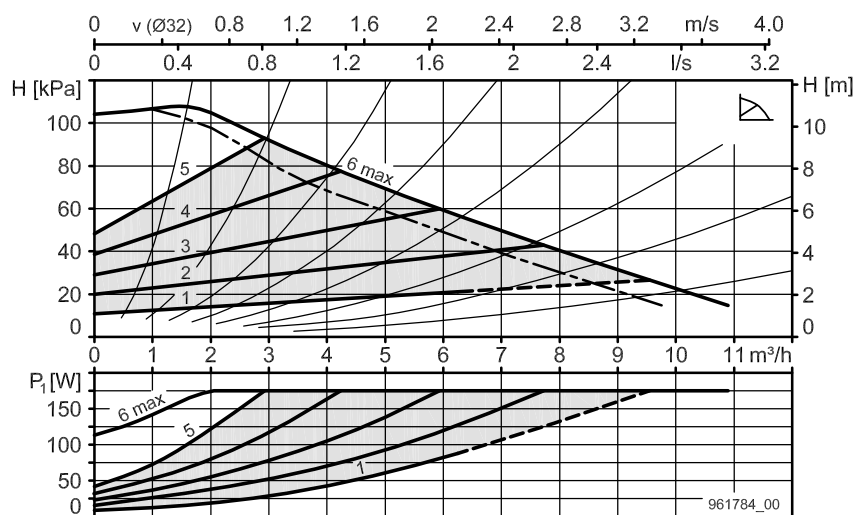
Accessories

- BIM A signal module
- BIM B control module

Type	Article number Biral
A 16-1 KW	1161231160
A 16-2 KW	1159901160



A 16-1 KW	A 16-2 KW
DN 25	DN 32
L = 180 mm	L = 180 mm
G = 1½"	G = 2"



A 401 KW

A 401-1 KW

Nominal width	DN 40
Discharge head max.	11 m
Installation length	220 250 mm
Flange connection	PN 6/10
Operating pressure max.	10 bar
Media temperature min.	-10°C
Media temperature max.	+95°C
Ambient temperature	max. 40°C
Net weight	9.0 kg

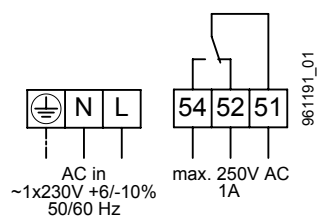
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1** Power limiting (can be deactivated)
- 2** Fault or operating message (switchable)

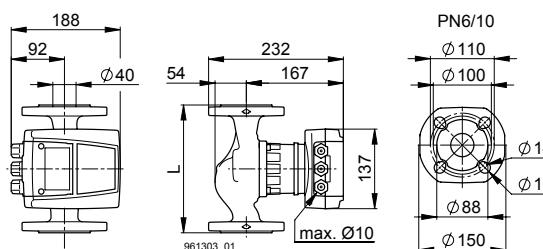
Included in the scope of delivery

- Sealing set for flange PN 6

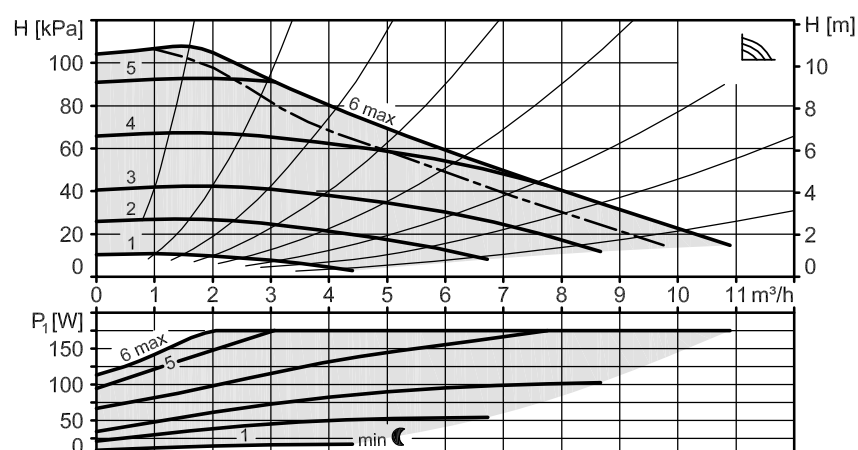
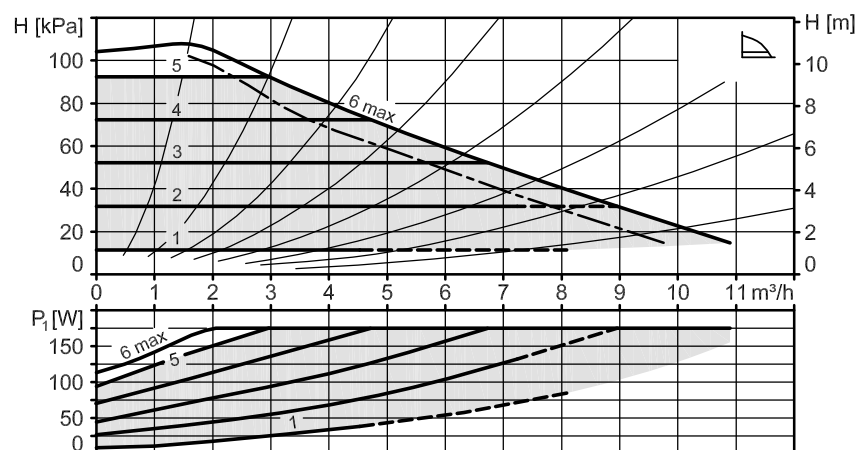
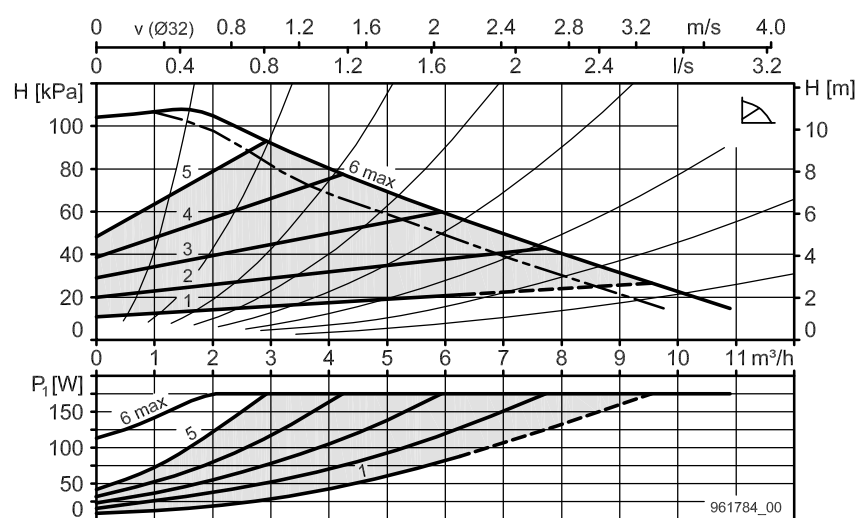
Accessories

- BIM A signal module
- BIM B control module
- Sealing set for flange PN10 / PN16

Type	Article number Biral
A 401 KW	1159911160
A 401-1 KW	1159921160



A 401 KW	A 401-1 KW
DN 40	DN 40
L = 220 mm	L = 250 mm



A 500 KW

Nominal width	DN 50
Discharge head max.	11 m
Installation length	220 mm
Flange connection	PN 6/10
Operating pressure max.	10 bar
Media temperature min.	-10°C
Media temperature max.	+95°C
Ambient temperature	max. 40°C
Net weight	11.0 kg

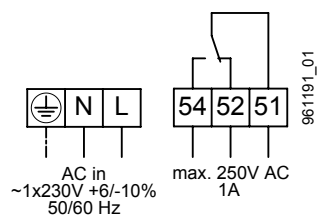
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 95°C water temperature	0.55 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

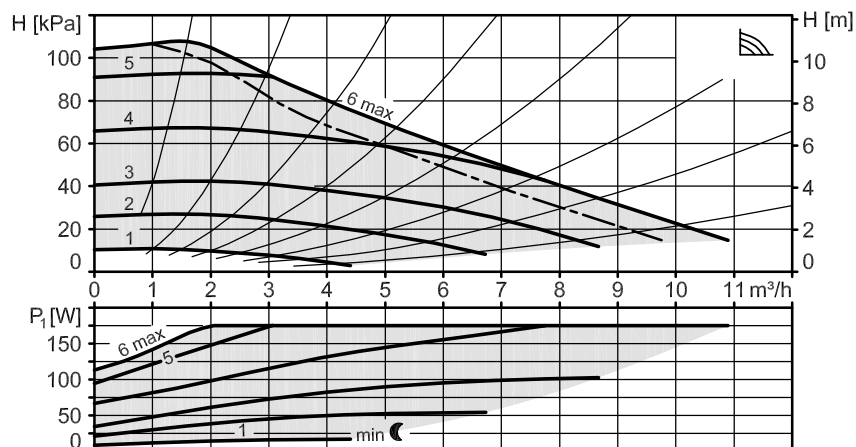
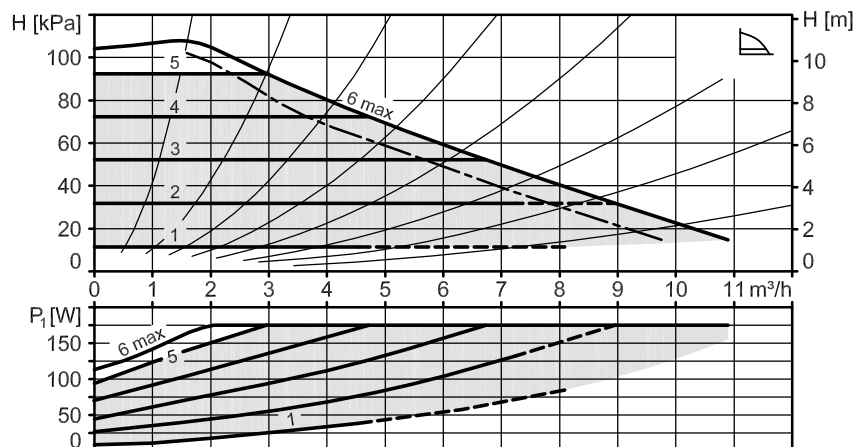
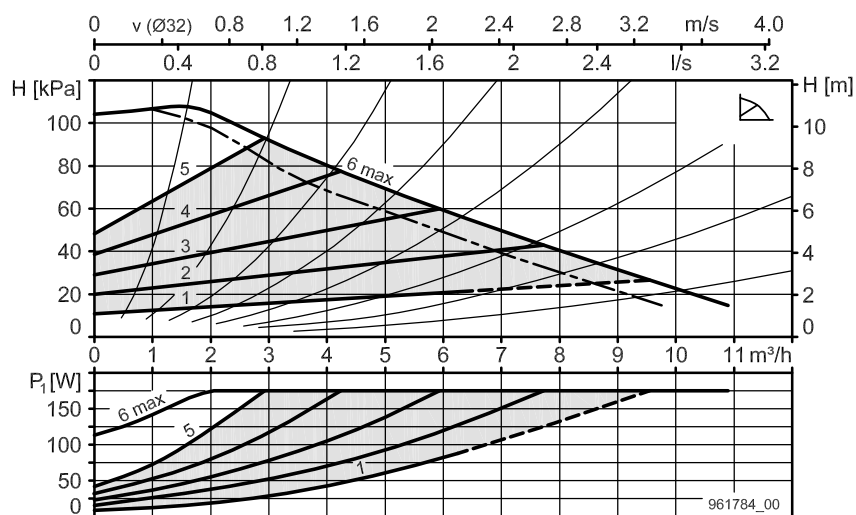
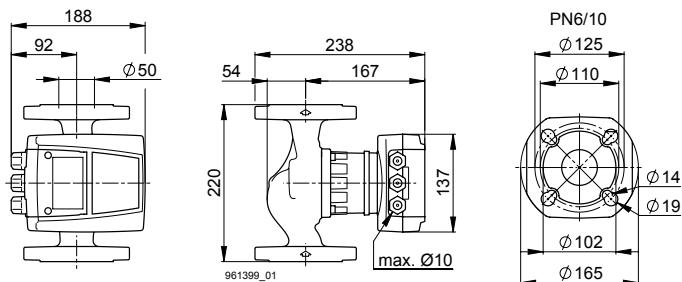
- Sealing set for flange PN 6

Accessories

- BIM A signal module
- BIM B control module
- Sealing set for flange PN10 / PN16

Type **Article number Biral**

A 500 KW 1161371160





Premium cold water circulation pumps

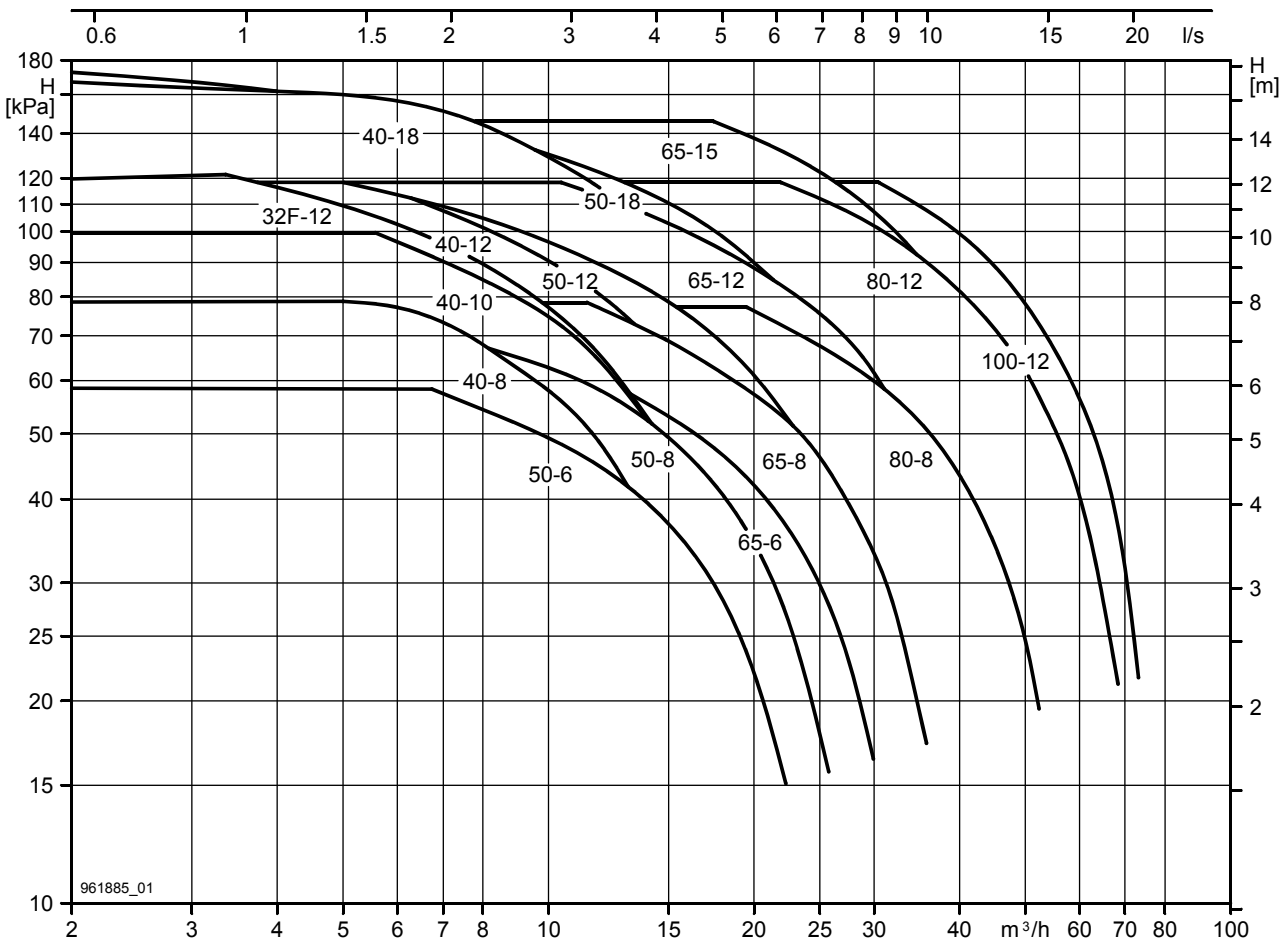
ModulA... GREEN

Summary

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.	EEL-value
		DN	m	mm		bar	
ModulA 32F-12 220 GREEN	2201100360	32	12	220	PN 6-16	16	≤0.18
ModulA 40-8 220 GREEN	2201150360	40	8	220	PN 6-16	16	≤0.19
ModulA 40-10 220 GREEN	2201160360	40	10	220	PN 6-16	16	≤0.19
ModulA 40-12 250 GREEN	2201170360	40	12	250	PN 6-16	16	≤0.18
ModulA 40-18 250 GREEN	2201190360	40	18	250	PN 6-16	16	≤0.18
ModulA 50-6 240 GREEN	2201210360	50	6	240	PN 6-16	16	≤0.19
ModulA 50-8 240 GREEN	2201220360	50	8	240	PN 6-16	16	≤0.18
ModulA 50-12 270 GREEN	2201240360	50	12	270	PN 6-16	16	≤0.18
ModulA 50-18 270 GREEN	2201260360	50	18	270	PN 6-16	16	≤0.17
ModulA 65-6 270 GREEN	2201280360	65	6	270	PN 6-16	16	≤0.17
ModulA 65-8 270 GREEN	2201290360	65	8	270	PN 6-16	16	≤0.17
ModulA 65-12 340 GREEN	2201370360	65	12	340	PN 6-16	16	≤0.17
ModulA 65-15 340 GREEN	2201380360	65	15	340	PN 6-16	16	≤0.17
ModulA 80-8 360 GREEN PN6	2201410360	80	8	360	PN 6	6	≤0.17
ModulA 80-8 360 GREEN PN10/16	2201412360	80	8	360	PN 10/16	16	≤0.17
ModulA 80-12 360 GREEN PN6	2201430360	80	12	360	PN 6	6	≤0.17
ModulA 80-12 360 GREEN PN10/16	2201432360	80	12	360	PN 10/16	16	≤0.17
ModulA 100-12 450 GREEN PN6	2201490360	100	12	450	PN 6	6	≤0.17
ModulA 100-12 450 GREEN PN10/16	2201492360	100	12	450	PN 10/16	16	≤0.17

Order reference

	Modula	(-D)	32	(F)	-6	220	RED
Series							
Single pump							
Twin pump (-D)							
Nominal width (DN) [mm]							
Pipeline connection							
Flange (F)							
Discharge head max. [m]							
Installation height [mm]							
Field of application							
Heating (RED)							
Cold water (GREEN)							
Service water (BLUE)							



ModuA 32F-12 220 GREEN

Nominal width	DN 32
Discharge head max.	12 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	17.3 kg

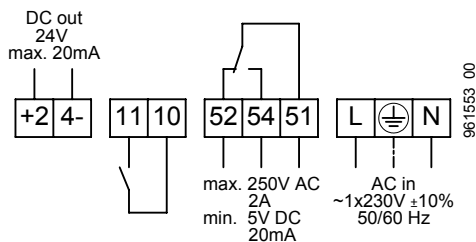
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	16-328 W
Rated current	0.17-1.50 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.92 bar
at 95°C water temperature	1.32 bar
at 110°C water temperature	1.92 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

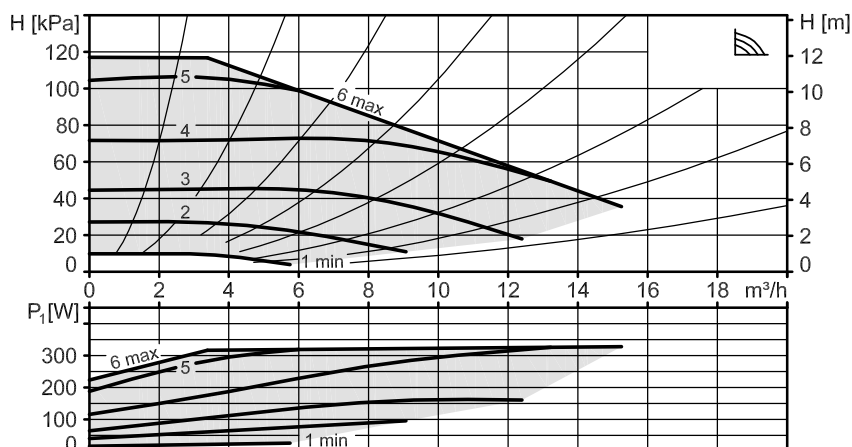
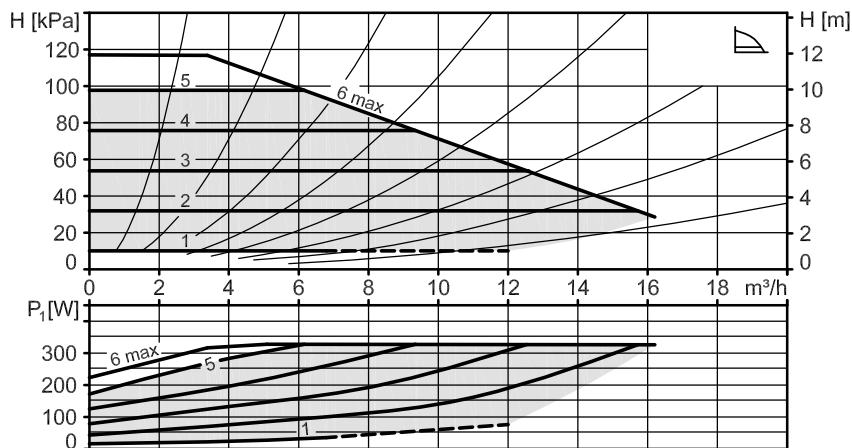
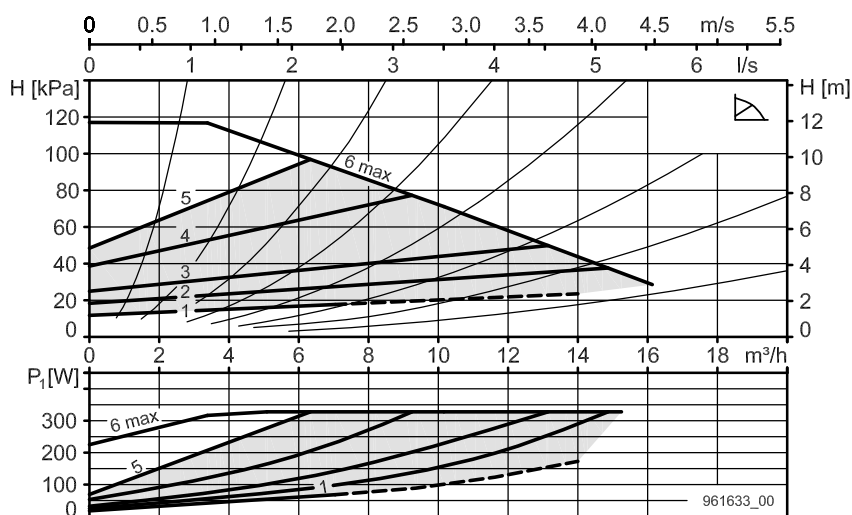
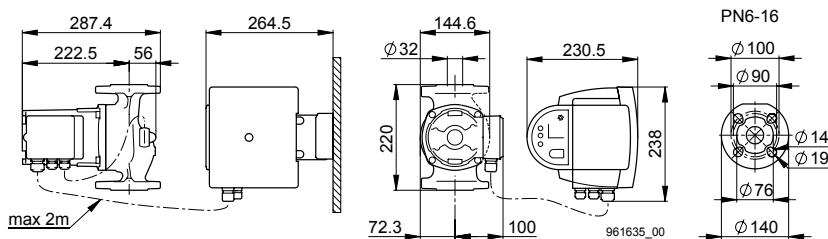
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 32F-12 220 GREEN	2201100360



Modula 40-8 220 GREEN

Nominal width	DN 40
Discharge head max.	8 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	18.3 kg

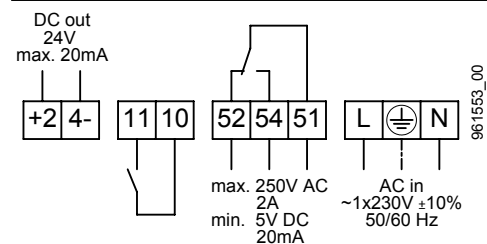
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	20-268 W
Rated current	0.20-1.21 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.52 bar
at 110°C water temperature	1.12 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

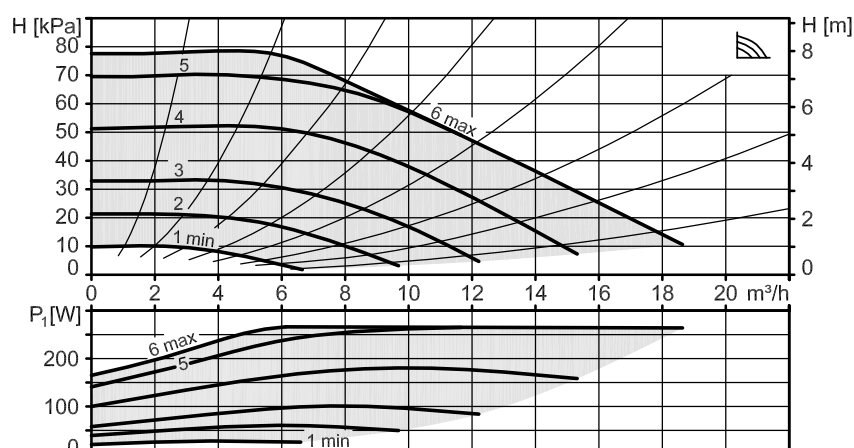
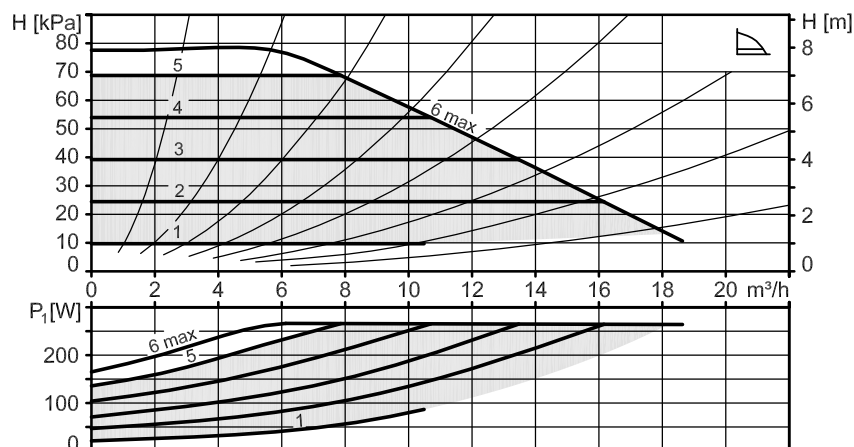
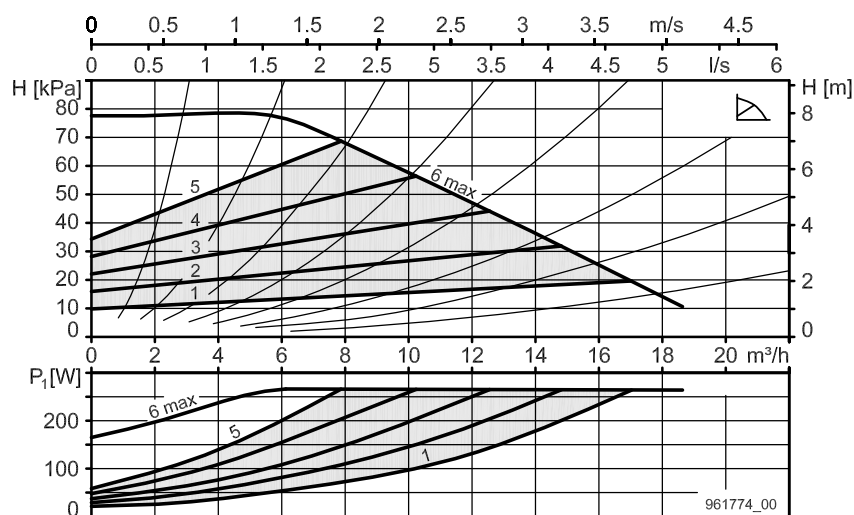
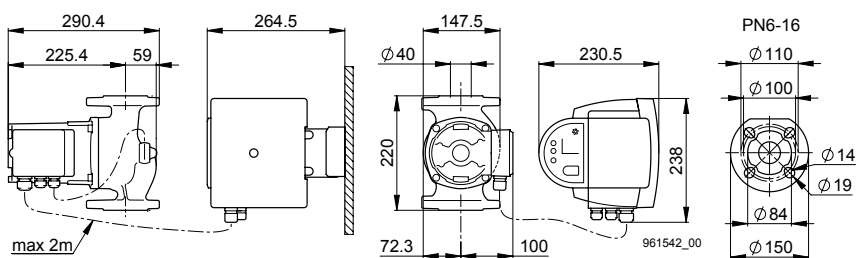
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
Modula 40-8 220 GREEN	2201150360



ModuA 40-10 220 GREEN

Nominal width	DN 40
Discharge head max.	10 m
Installation length	220 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	18.3 kg

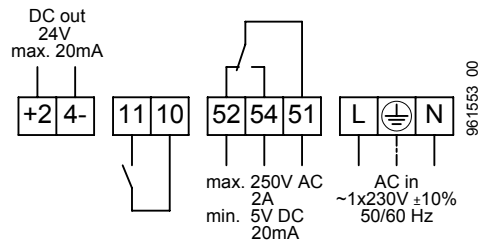
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	18-341 W
Rated current	0.19-1.54 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.52 bar
at 110°C water temperature	1.12 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

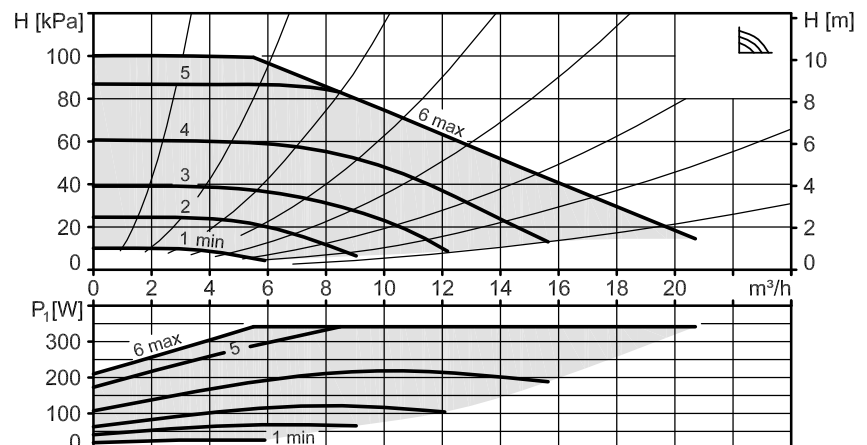
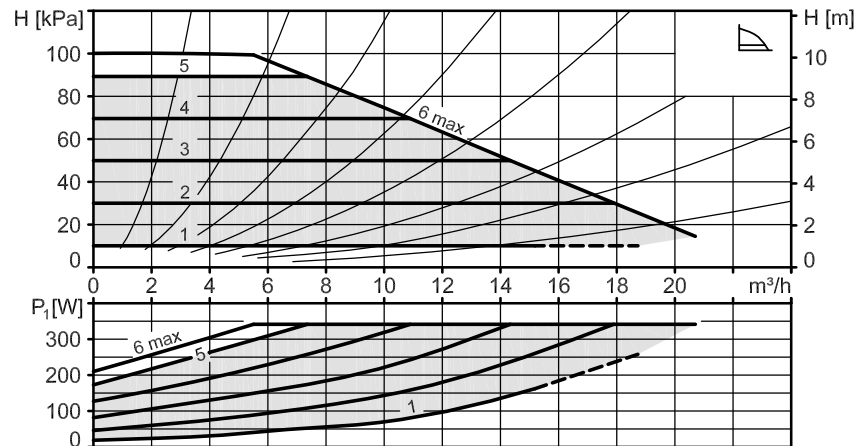
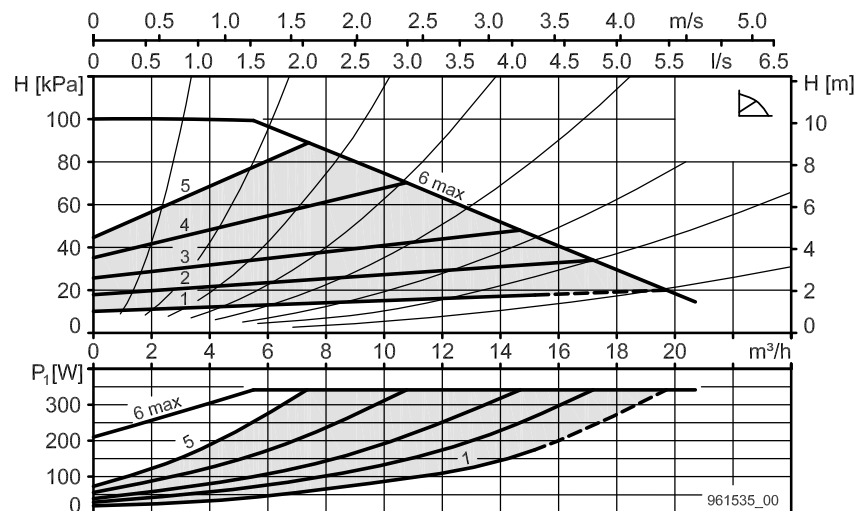
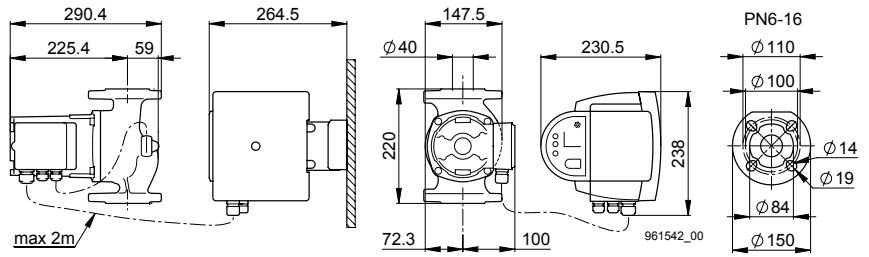
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-10 220 GREEN	2201160360



ModuA 40-12 250 GREEN

Nominal width	DN 40
Discharge head max.	12 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	18.1 kg

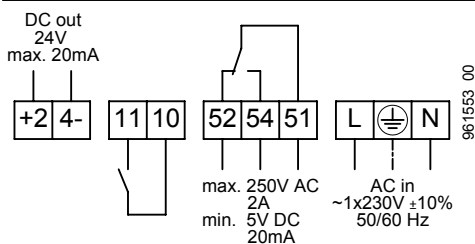
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	17-421 W
Rated current	0.18-1.91 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.42 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

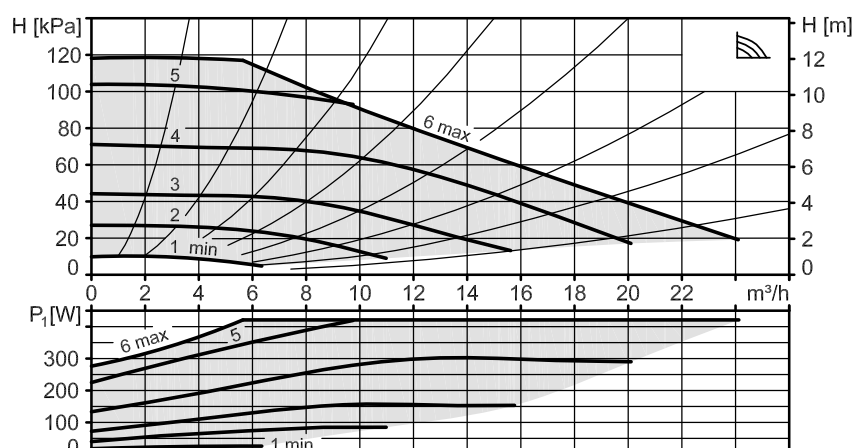
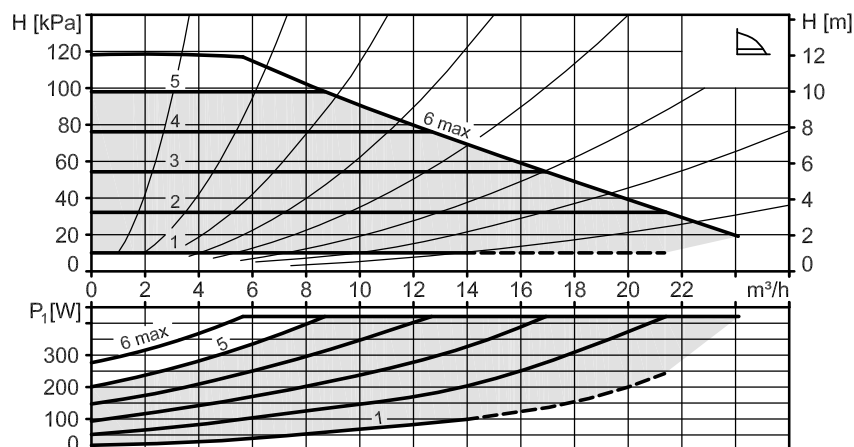
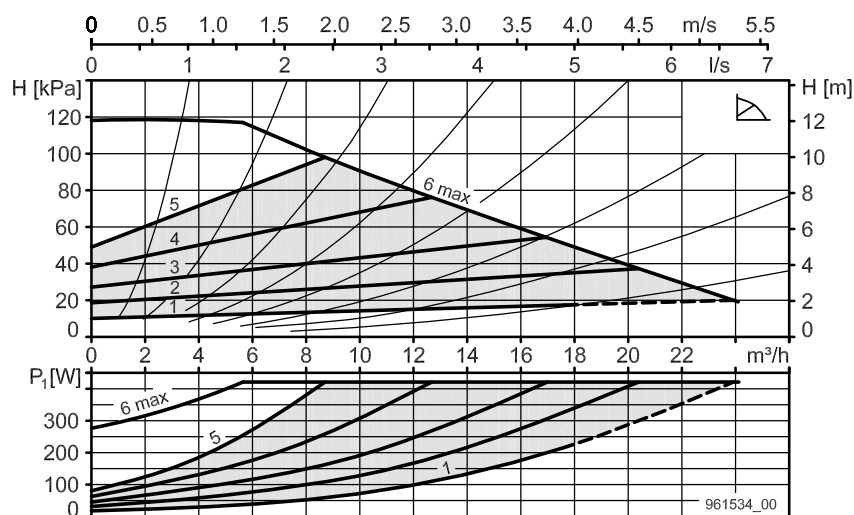
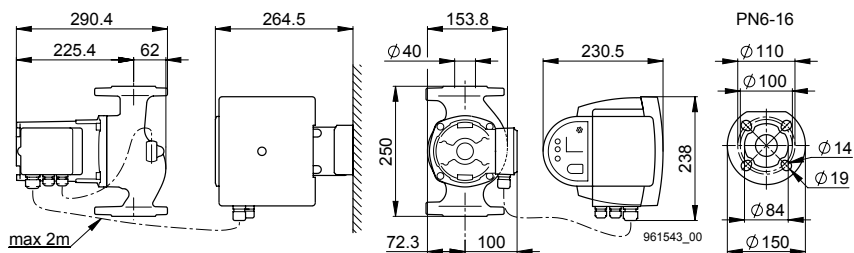
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-12 250 GREEN	2201170360



ModuA 40-18 250 GREEN

Nominal width	DN 40
Discharge head max.	18 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	18.1 kg

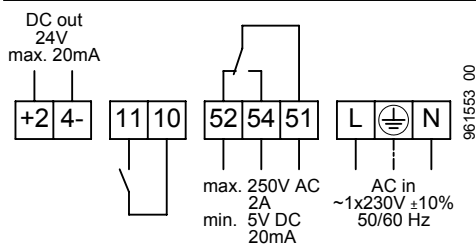
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	16-594 W
Rated current	0.18-2.63 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.42 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

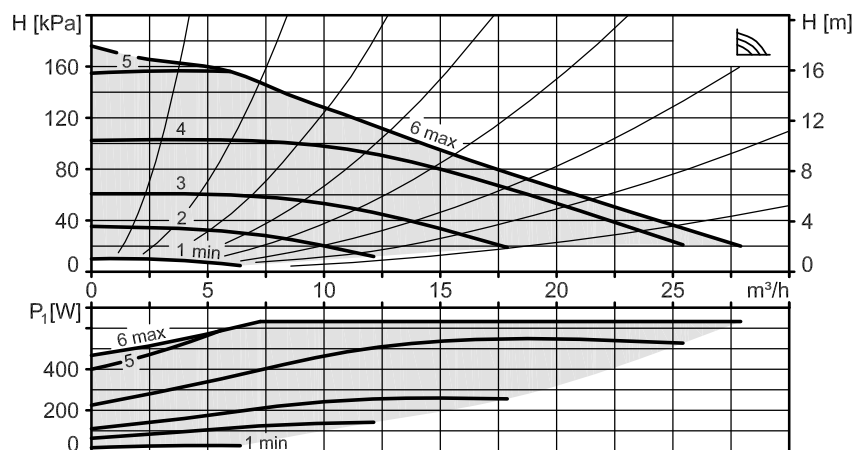
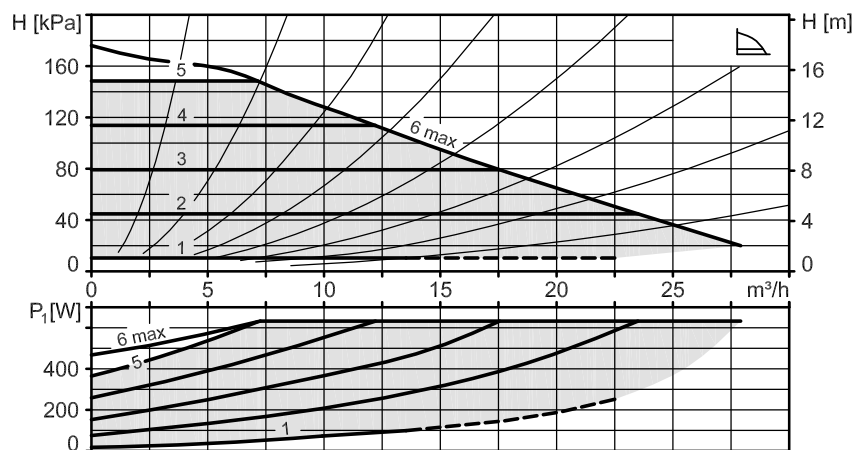
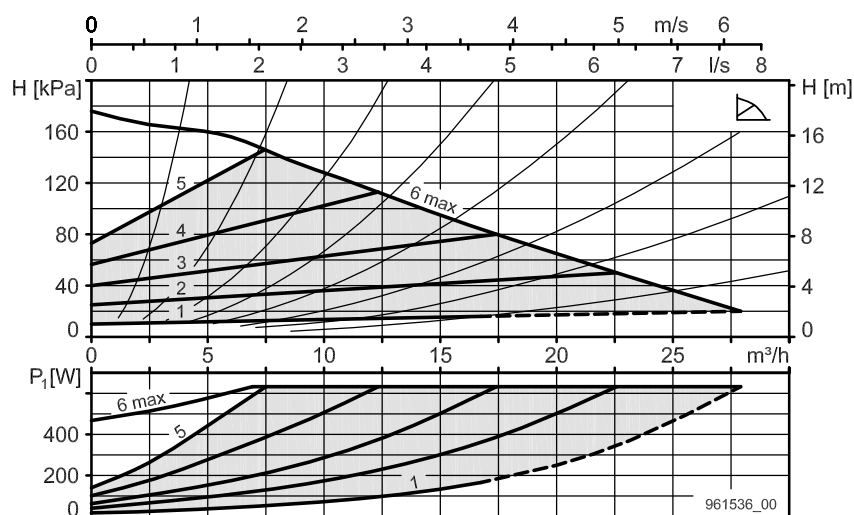
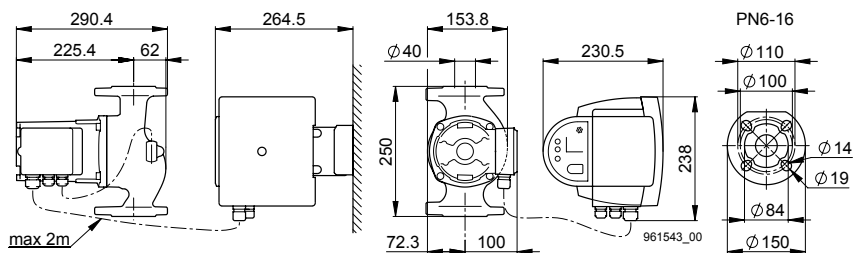
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 40-18 250 GREEN	2201190360



ModulA 50-6 240 GREEN

Nominal width	DN 50
Discharge head max.	6 m
Installation length	240 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	19.6 kg

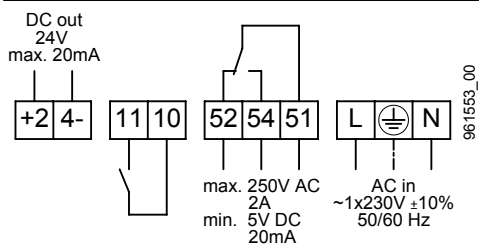
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	21-236 W
Rated current	0.21-1.09 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.12 bar
at 110°C water temperature	0.72 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

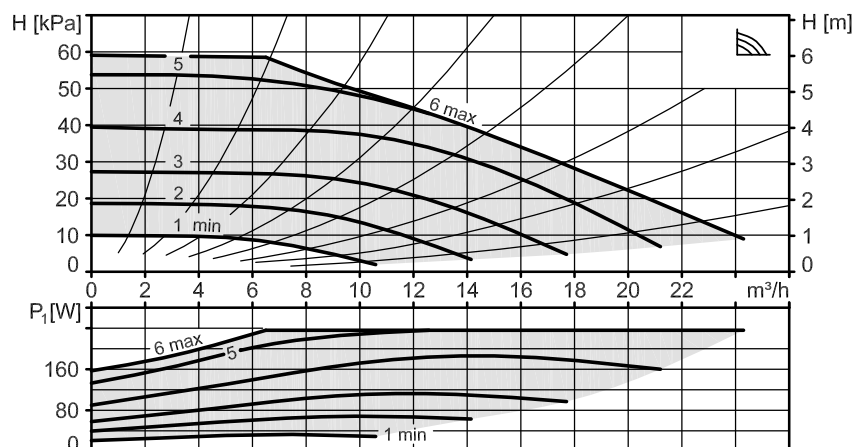
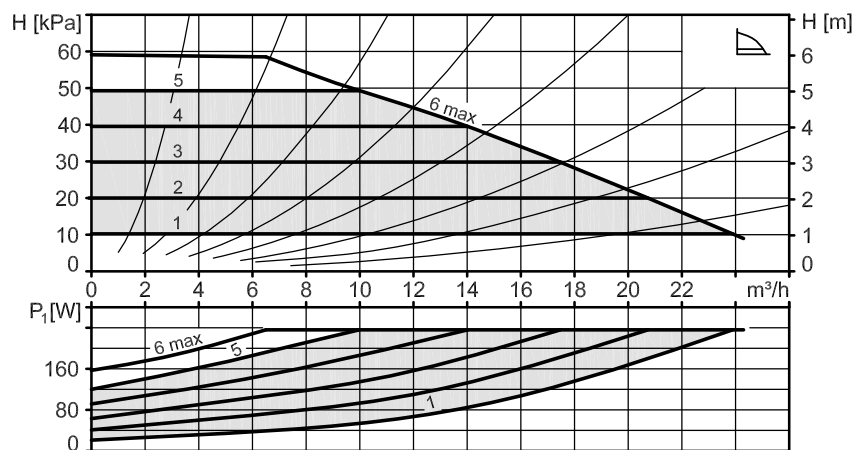
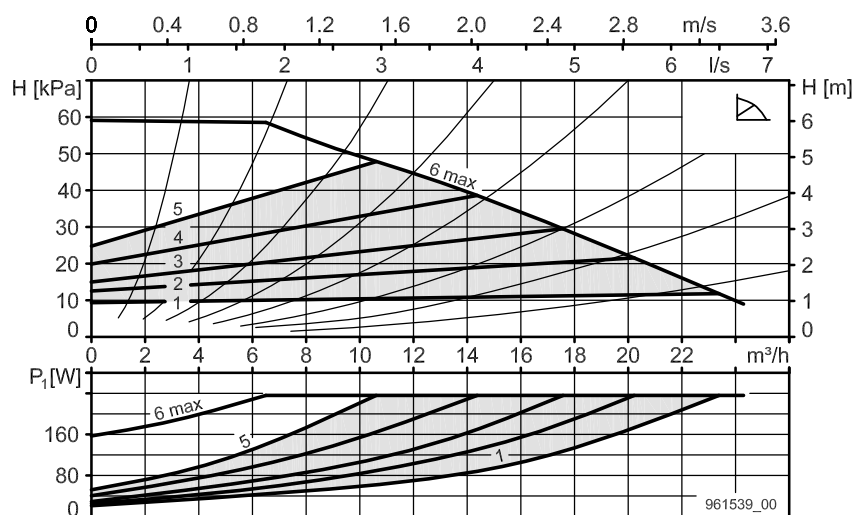
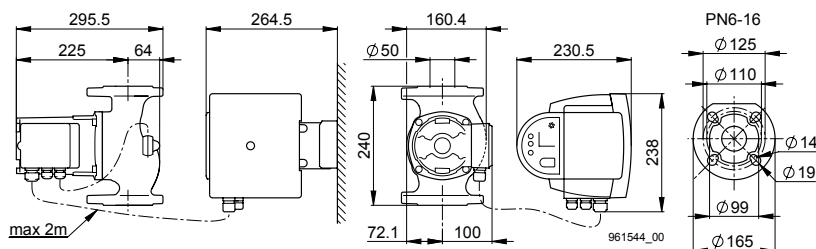
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModulA 50-6 240 GREEN	2201210360



ModuA 50-8 240 GREEN

Nominal width	DN 50
Discharge head max.	8 m
Installation length	240 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	19.6 kg

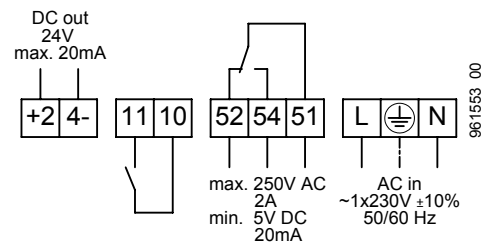
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-315 W
Rated current	0.21-1.42 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.12 bar
at 110°C water temperature	0.72 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

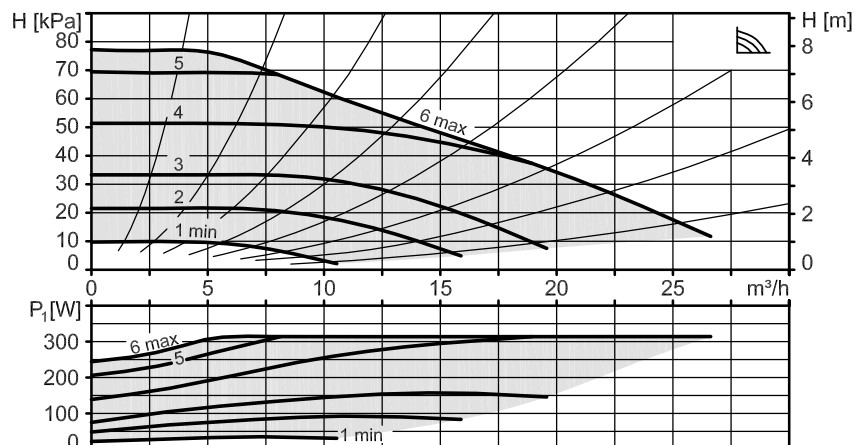
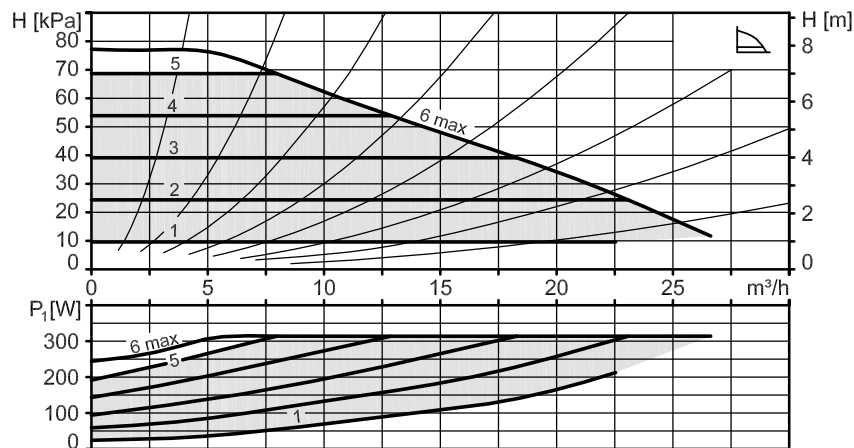
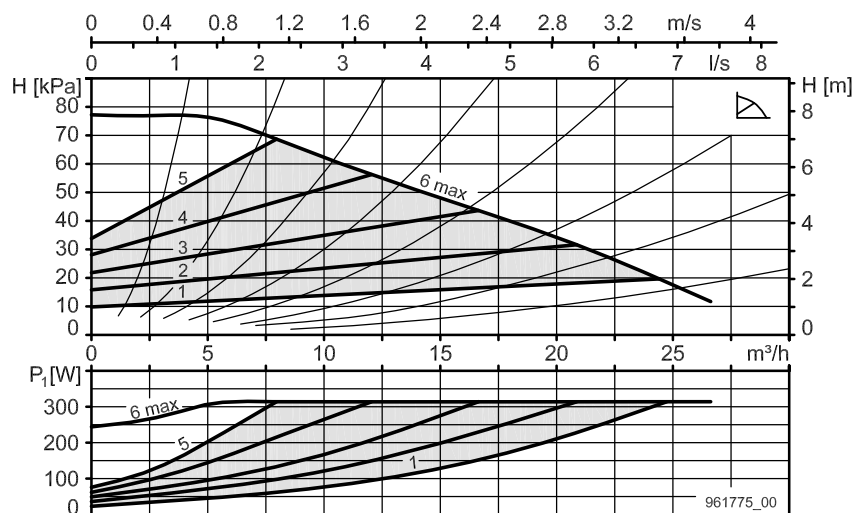
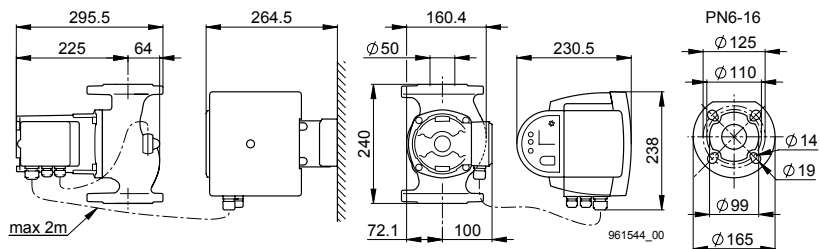
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-8 240 GREEN	2201220360



ModuA 50-12 270 GREEN

Nominal width	DN 50
Discharge head max.	12 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	20.1 kg

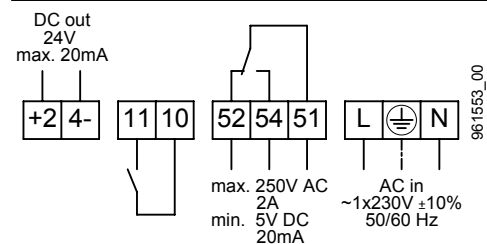
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	20-516 W
Rated current	0.21-2.32 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.42 bar
at 110°C water temperature	1.02 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

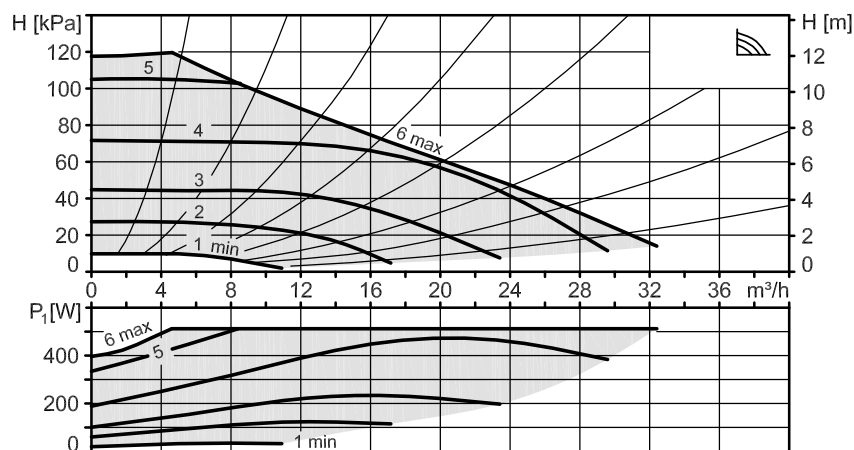
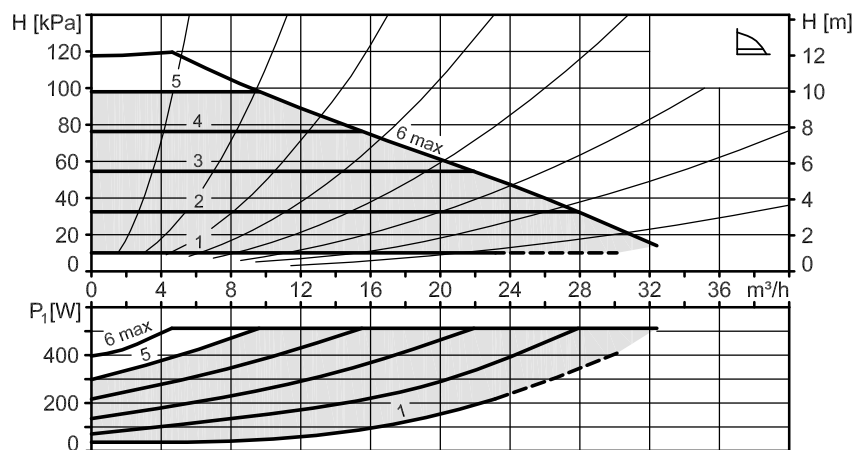
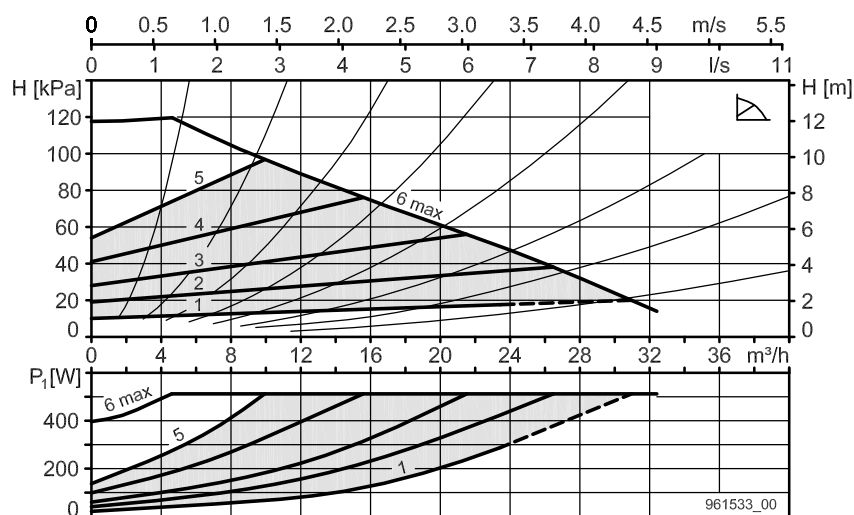
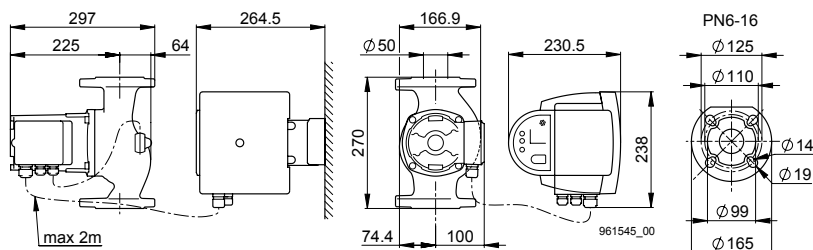
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-12 270 GREEN	2201240360



ModuA 50-18 270 GREEN

Nominal width	DN 50
Discharge head max.	18 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	20.8 kg

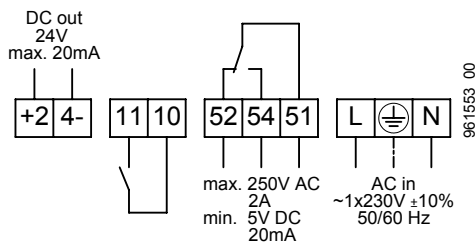
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-742 W
Rated current	0.21-3.34 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.22 bar
at 95°C water temperature	0.62 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

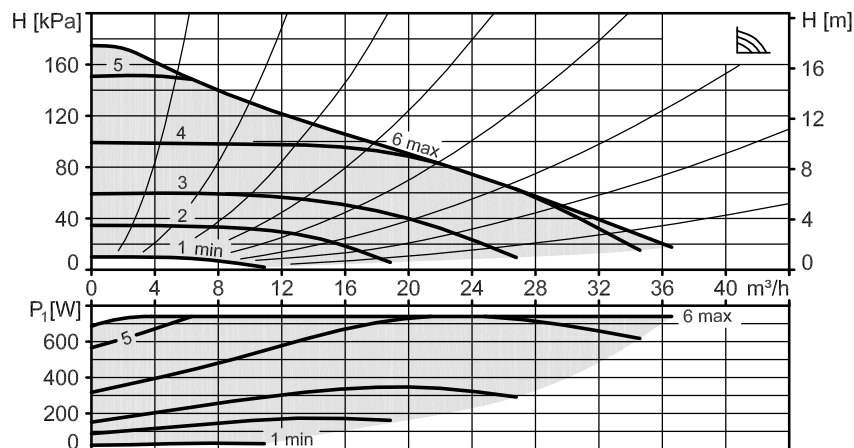
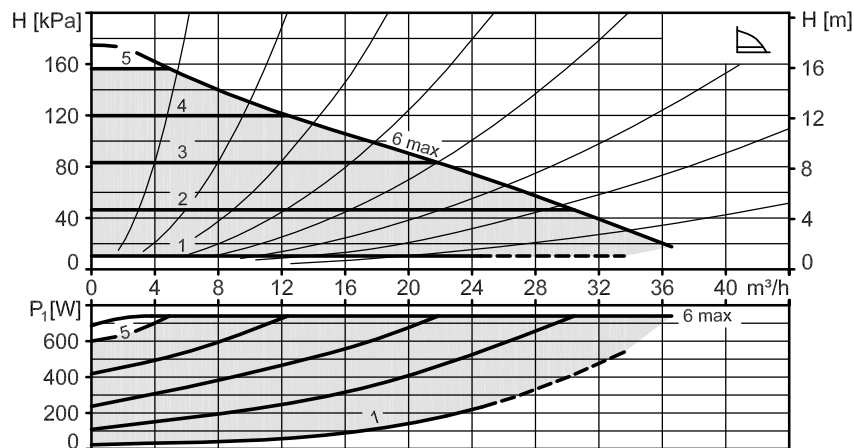
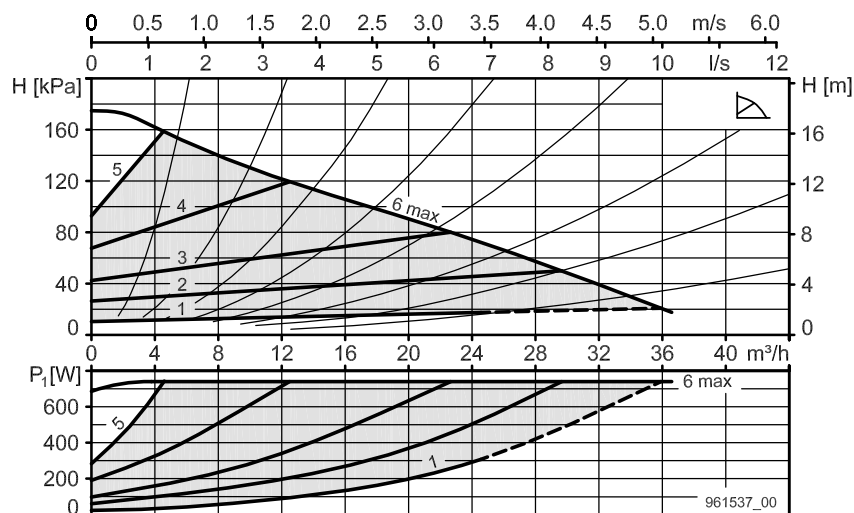
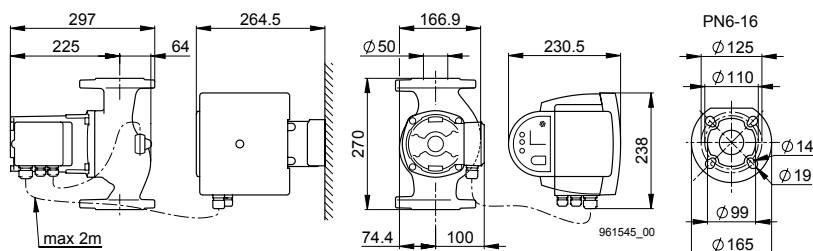
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 50-18 270 GREEN	2201260360



ModuA 65-6 270 GREEN

Nominal width	DN 65
Discharge head max.	6 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	22.6 kg

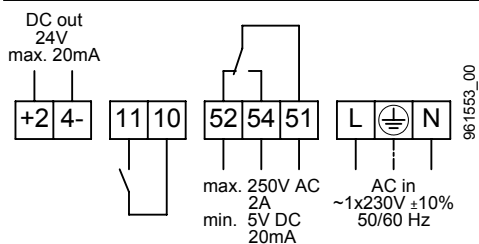
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-353 W
Rated current	0.22-1.58 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.22 bar
at 95°C water temperature	0.62 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

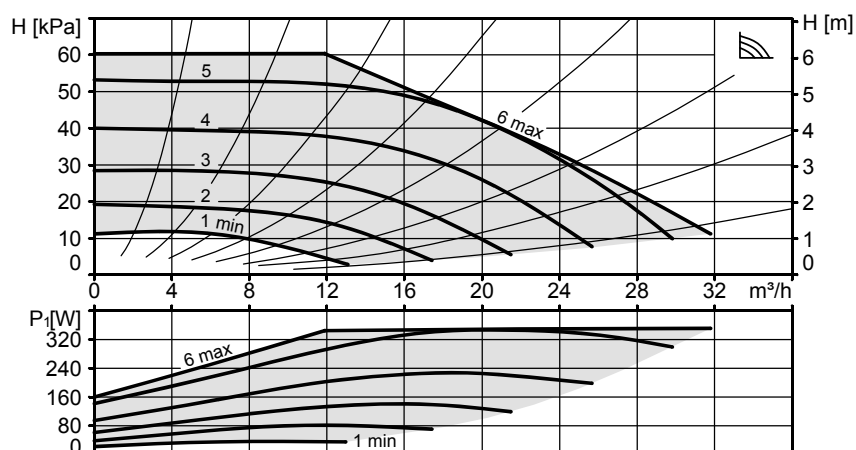
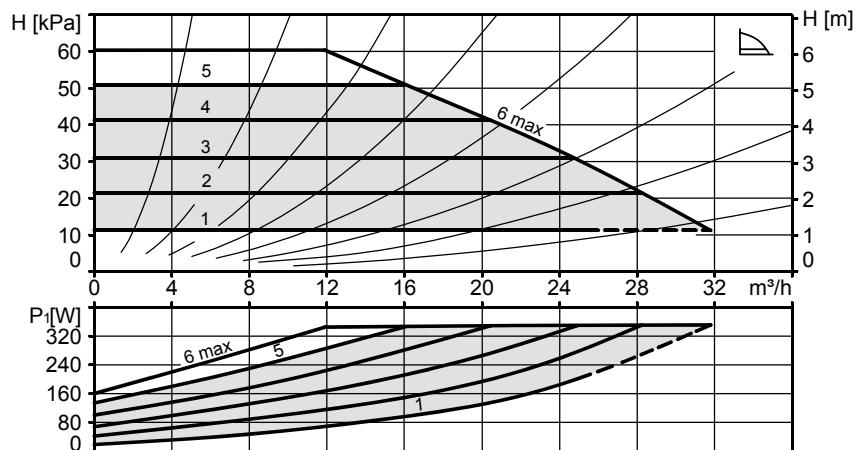
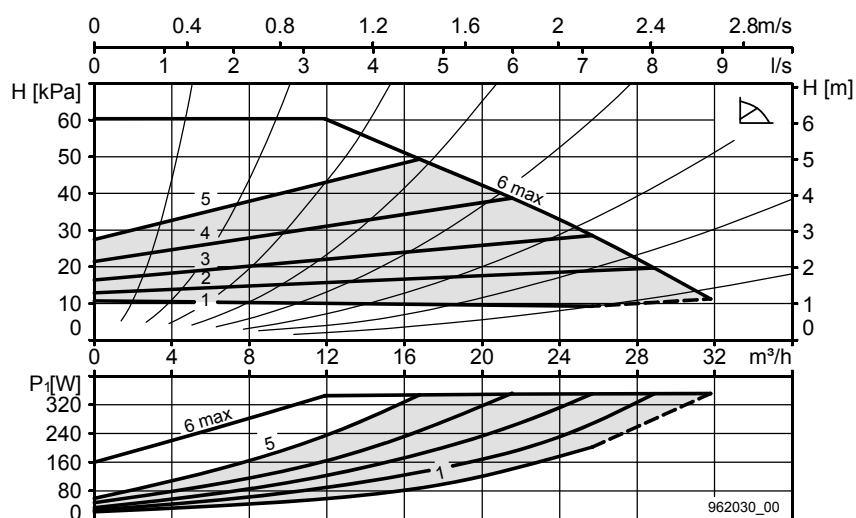
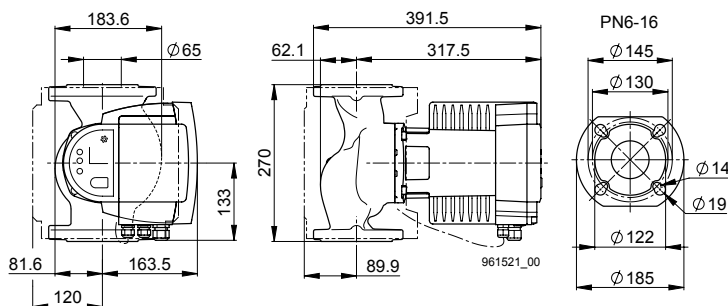
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 65-6 270 GREEN	2201280360



ModuA 65-8 270 GREEN

Nominal width	DN 65
Discharge head max.	8 m
Installation length	270 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	22.6 kg

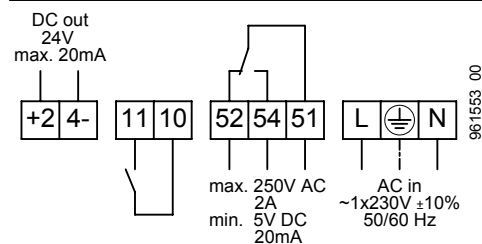
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	22-464 W
Rated current	0.24-2.10 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.22 bar
at 95°C water temperature	0.62 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

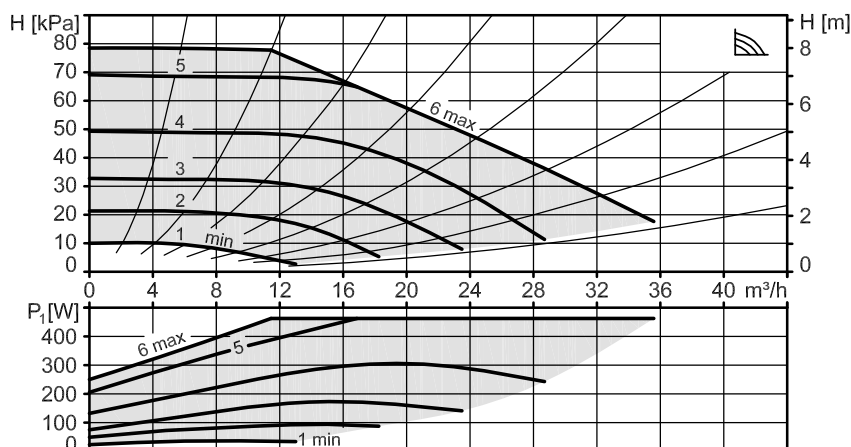
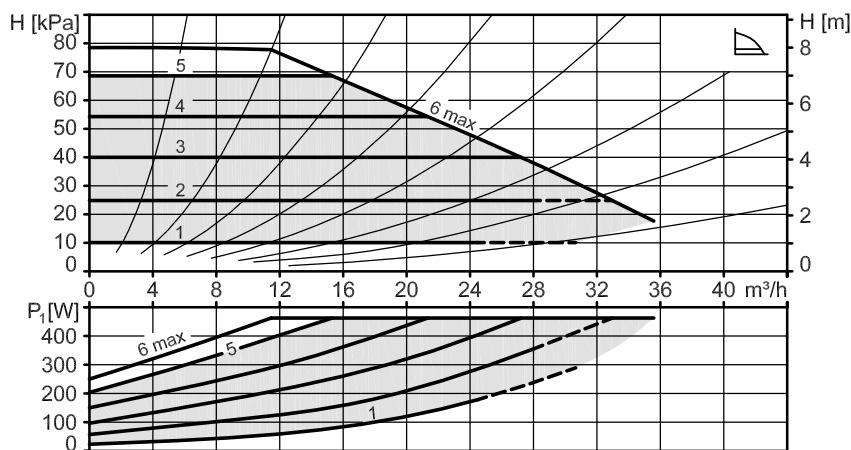
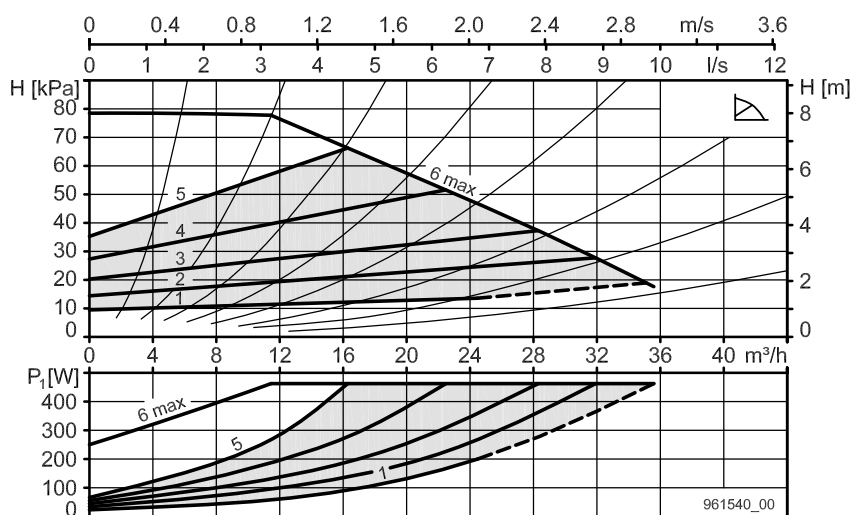
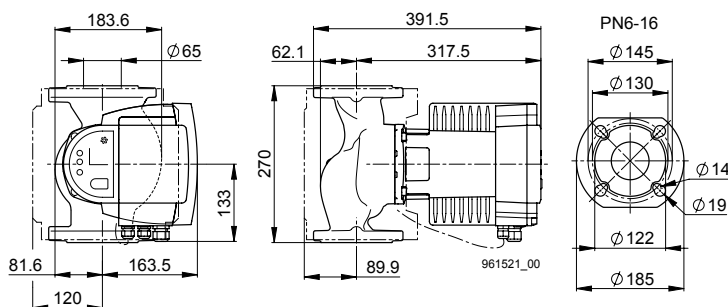
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 65-8 270 GREEN	2201290360



ModuA 65-12 340 GREEN

Nominal width	DN 65
Discharge head max.	12 m
Installation length	340 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	23.5 kg

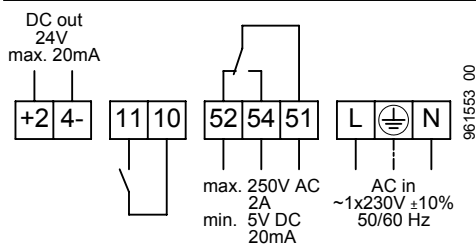
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	21-736 W
Rated current	0.22-3.32 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 95°C water temperature	0.52 bar
at 110°C water temperature	1.12 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

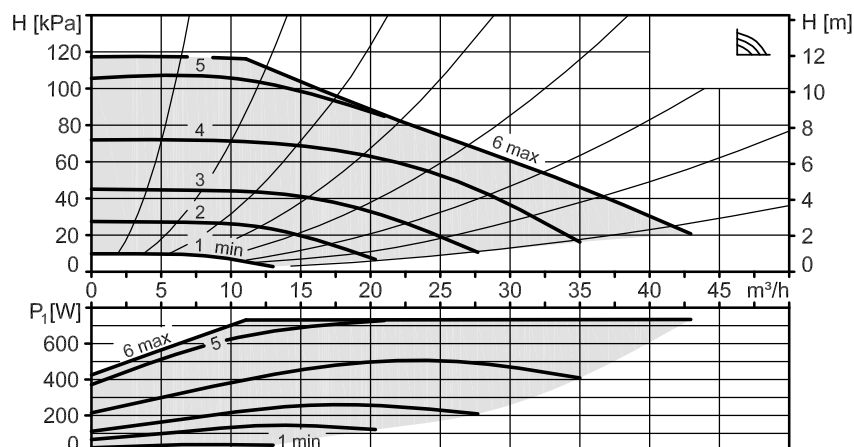
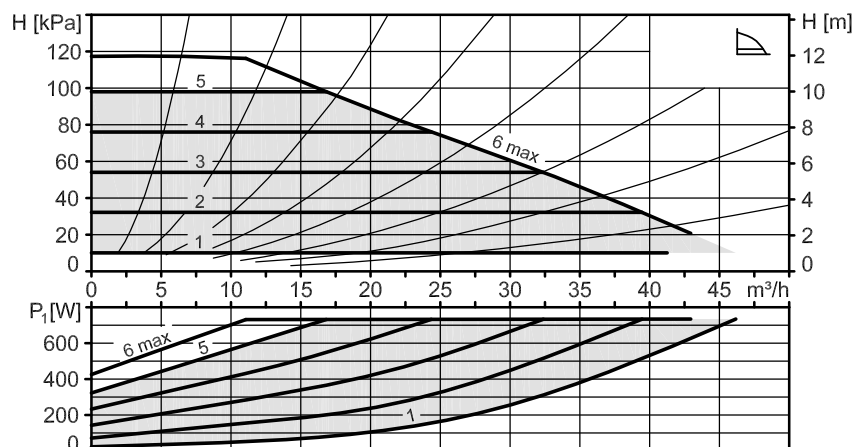
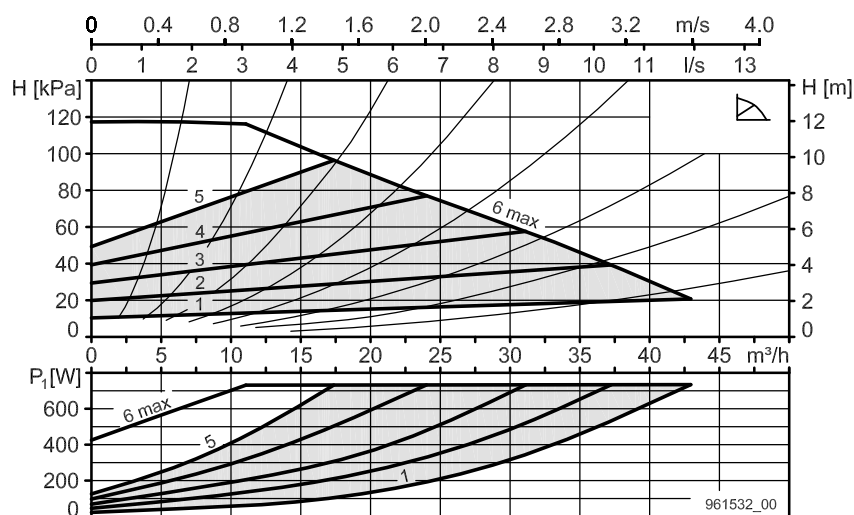
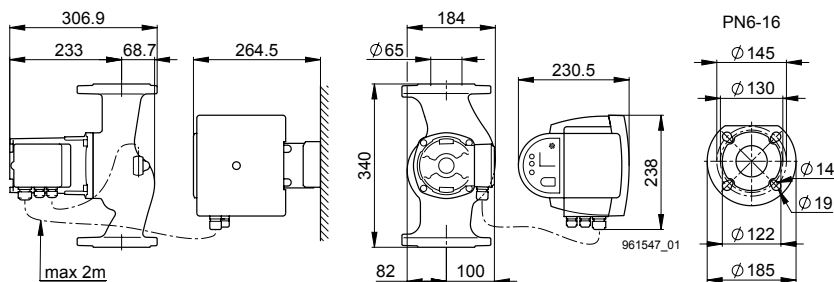
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModuA 65-12 340 GREEN	2201370360



ModulA 65-15 340 GREEN

Nominal width	DN 65
Discharge head max.	15 m
Installation length	340 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	26.0 kg

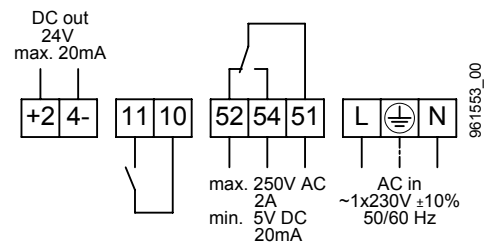
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	30-1254 W
Rated current	0.28-5.68 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.42 bar
at 95°C water temperature	0.82 bar
at 110°C water temperature	1.22 bar
for every ± 100 m altitude	± 0.01 bar

Connection diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

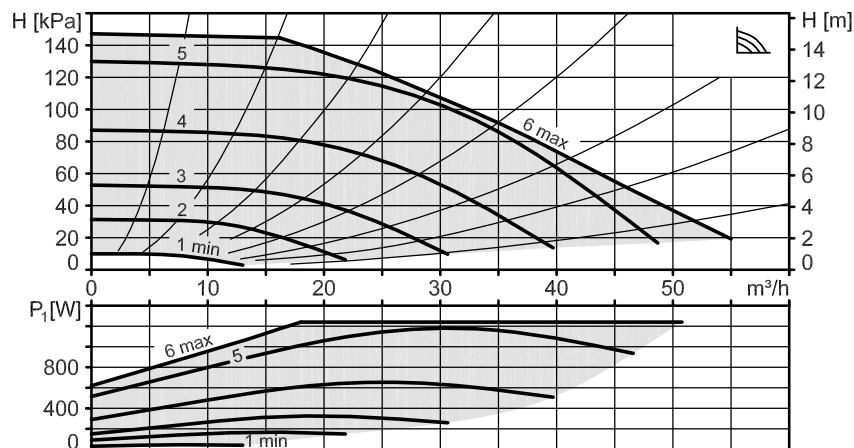
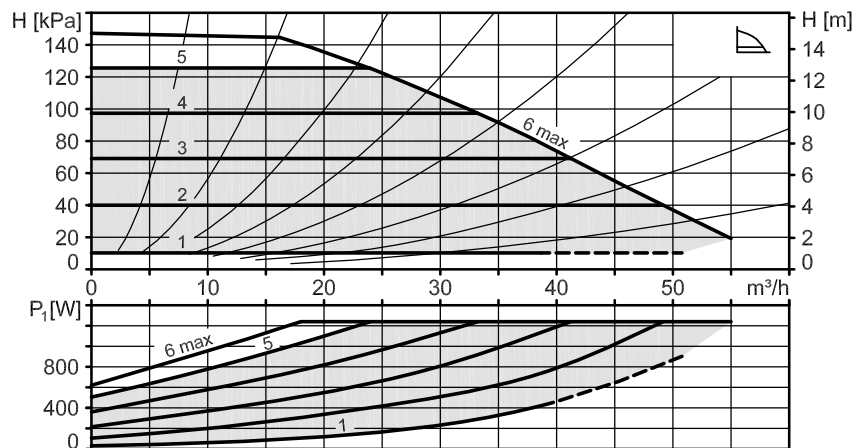
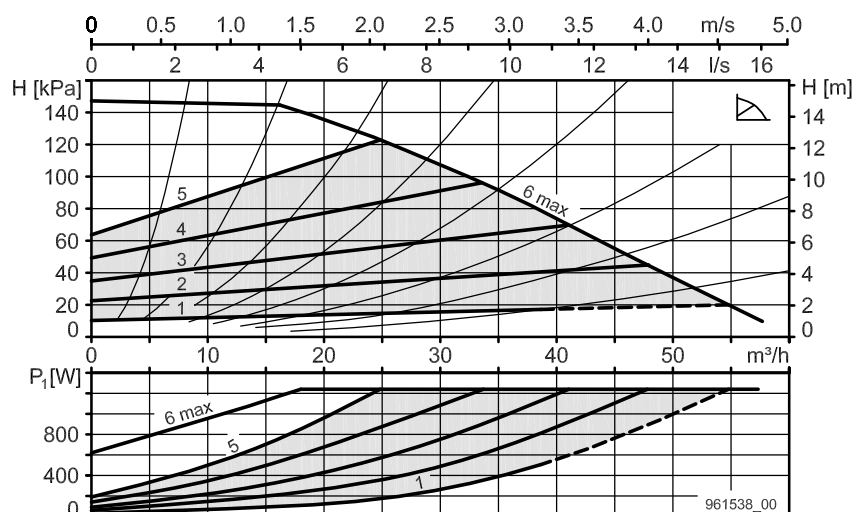
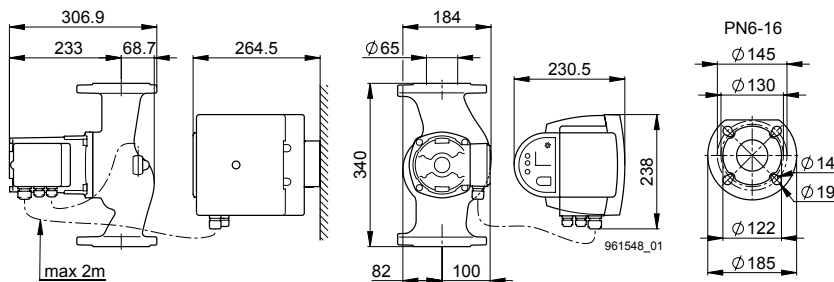
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModulA 65-15 340 GREEN	2201380360



Modula 80-8 360 GREEN PN6

Modula 80-8 360 GREEN PN10/16

Nominal width	DN 80
Discharge head max.	8 m
Installation length	360 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	31.1 kg

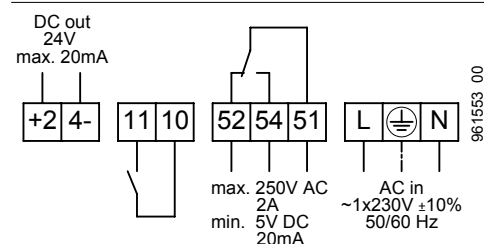
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	29-704 W
Rated current	0.29-3.08 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.52 bar
at 95°C water temperature	0.92 bar
at 110°C water temperature	1.52 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

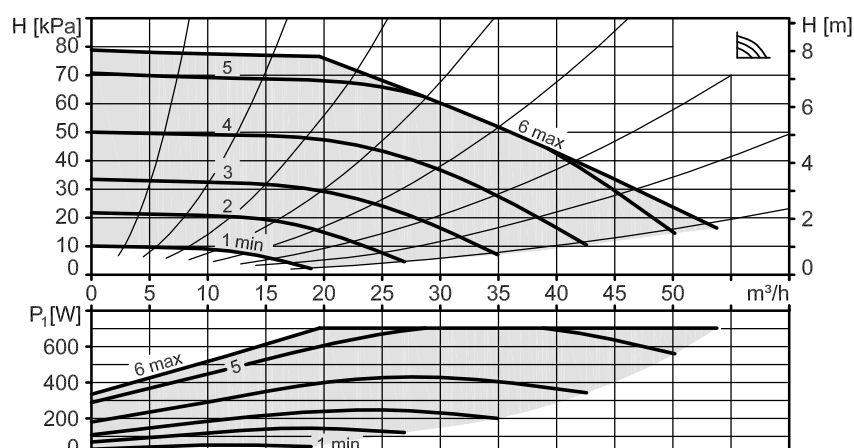
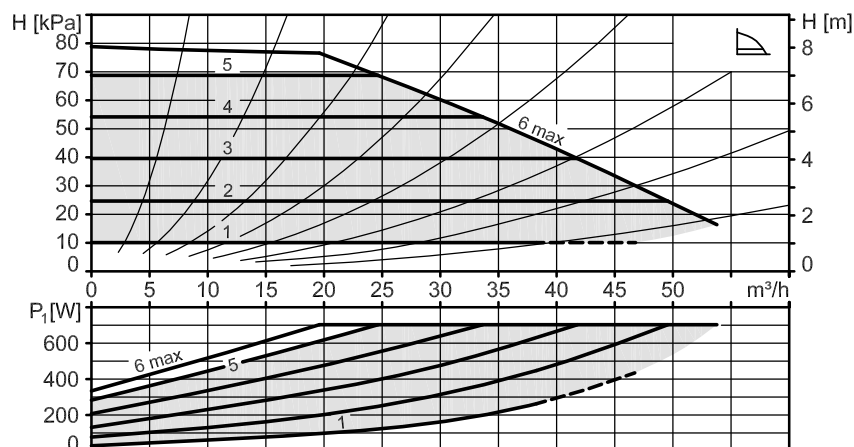
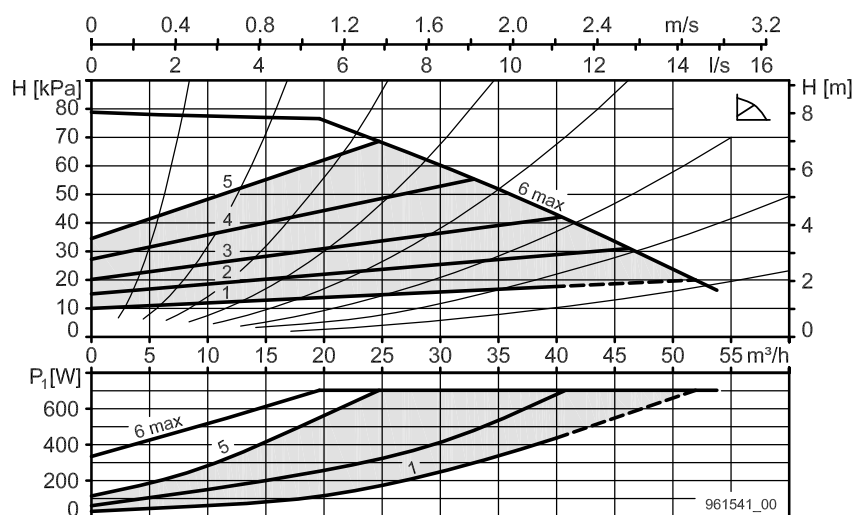
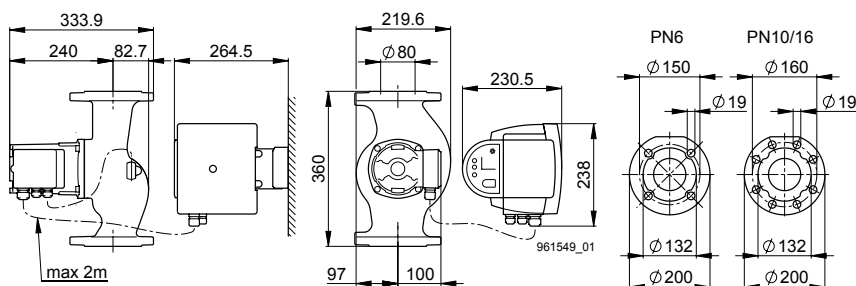
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6 or PN 10/16

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- Biral Remote Adapter
- BIM BUS-Module

Type	Article number Biral
Modula 80-8 360 GREEN PN6	2201410360
Modula 80-8 360 GREEN PN10/16	2201412360



Modula 80-12 360 GREEN PN6

Modula 80-12 360 GREEN PN10/16

Nominal width	DN 80
Discharge head max.	12 m
Installation length	360 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	31.1 kg

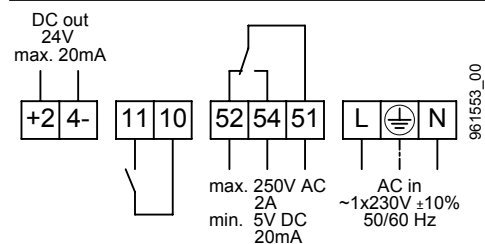
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	35-1282 W
Rated current	0.32-5.56 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.52 bar
at 95°C water temperature	0.92 bar
at 110°C water temperature	1.52 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

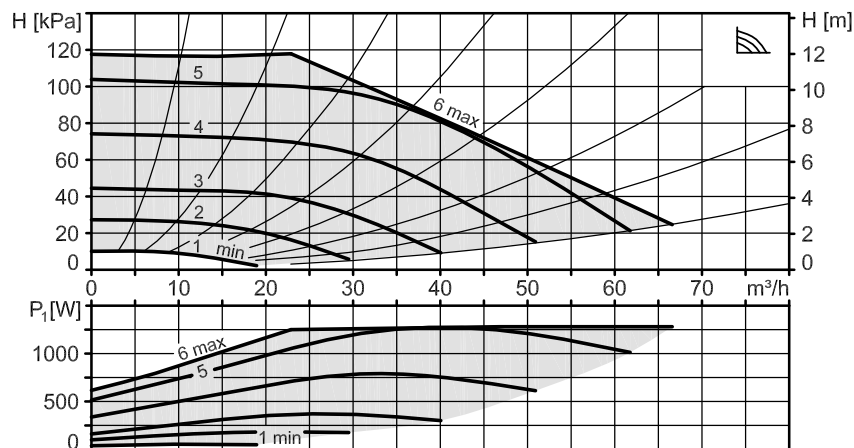
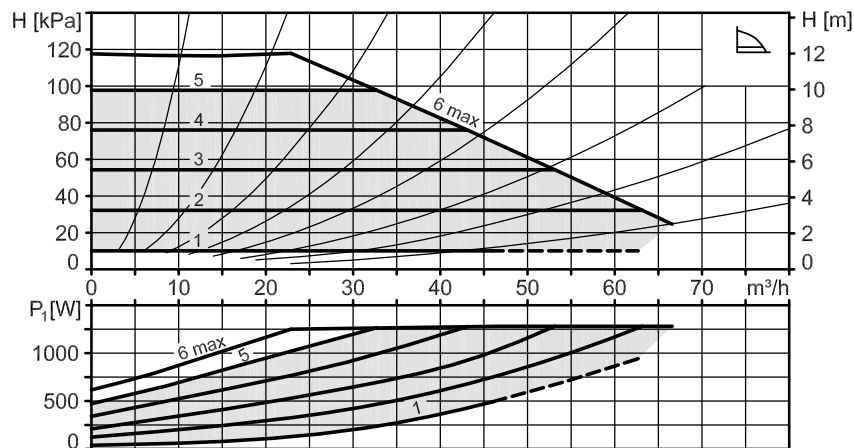
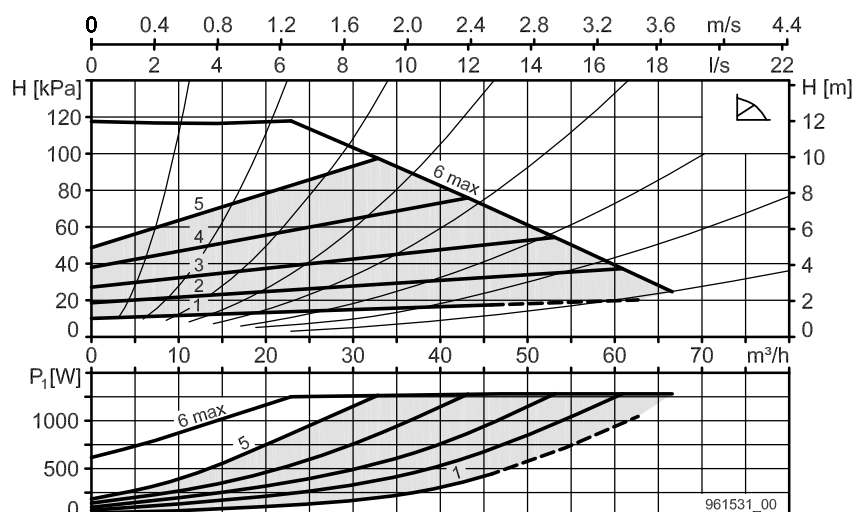
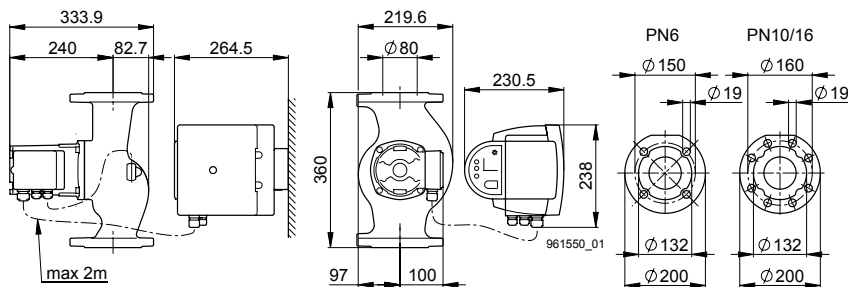
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6 or PN 10/16

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- Biral Remote Adapter
- BIM BUS-Module

Type	Article number Biral
Modula 80-12 360 GREEN PN6	2201430360
Modula 80-12 360 GREEN PN10/16	2201432360



ModuA 100-12 450 GREEN PN6

ModuA 100-12 450 GREEN PN10/16

Nominal width	DN 100
Discharge head max.	12 m
Installation length	450 mm
Flange connection	PN 6 PN 10/16
Operating pressure max.	6 16 bar
Media temperature min.	-10°C
Media temperature max.	+110°C
Ambient temperature	0°C to 40°C
Net weight	36.0 kg

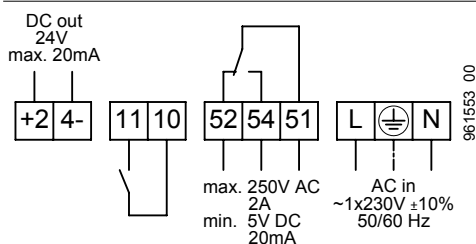
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	35-1563 W
Rated current	0.32-6.78 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.52 bar
at 95°C water temperature	0.92 bar
at 110°C water temperature	1.52 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

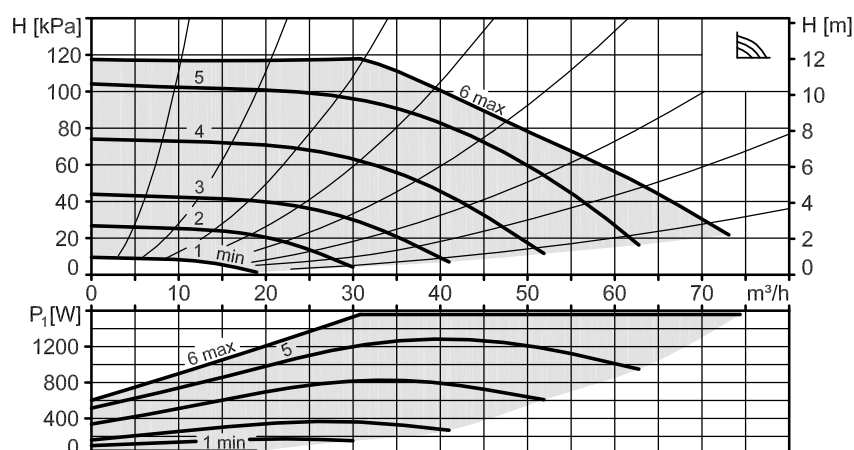
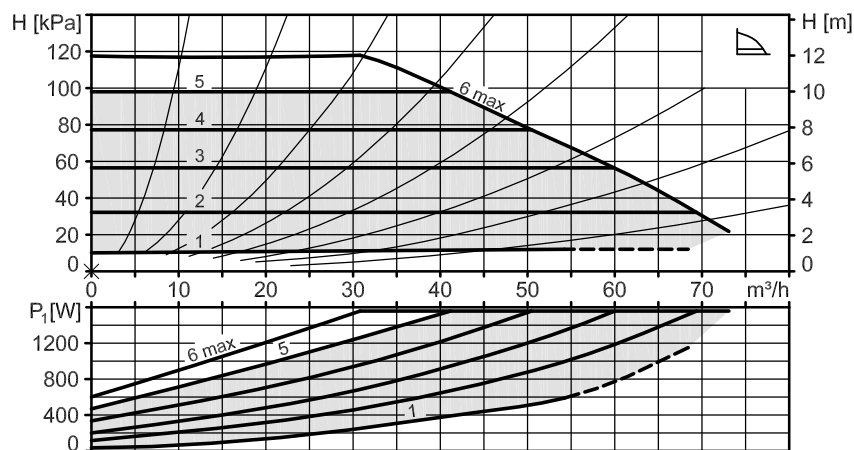
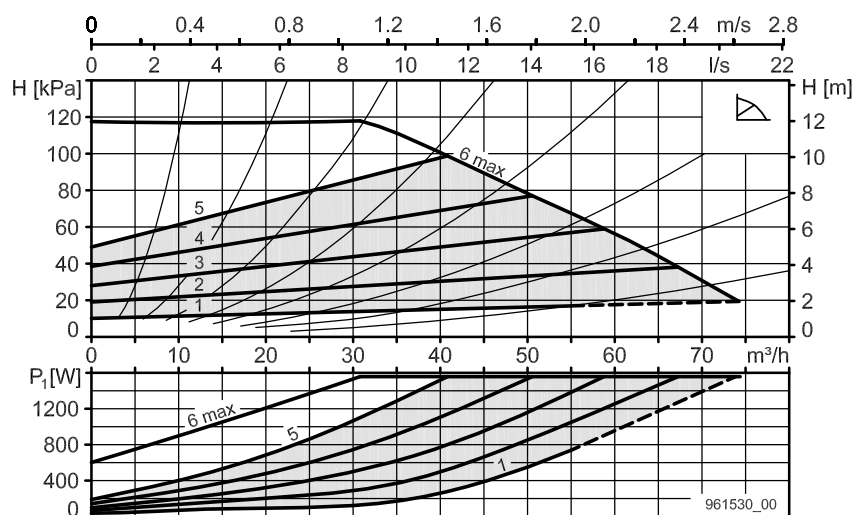
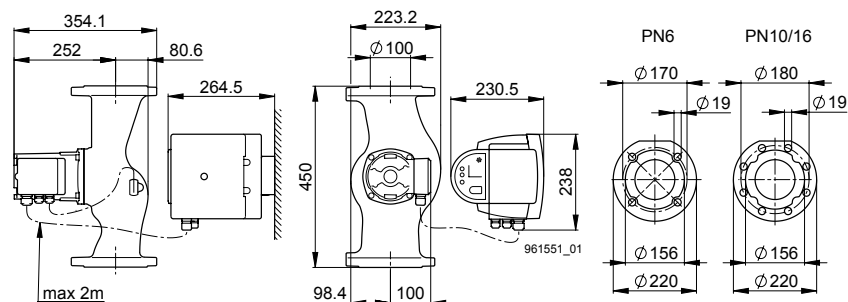
Included in the scope of delivery

- Kit for recessed installation of electronics (pre-installed)
- Sealing set for flange PN 6 or PN 10/16

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- Biral Remote Adapter
- BIM BUS-Module

Type	Article number Biral
ModuA 100-12 450 GREEN PN6	2201490360
ModuA 100-12 450 GREEN PN10/16	2201492360





Service water pumps

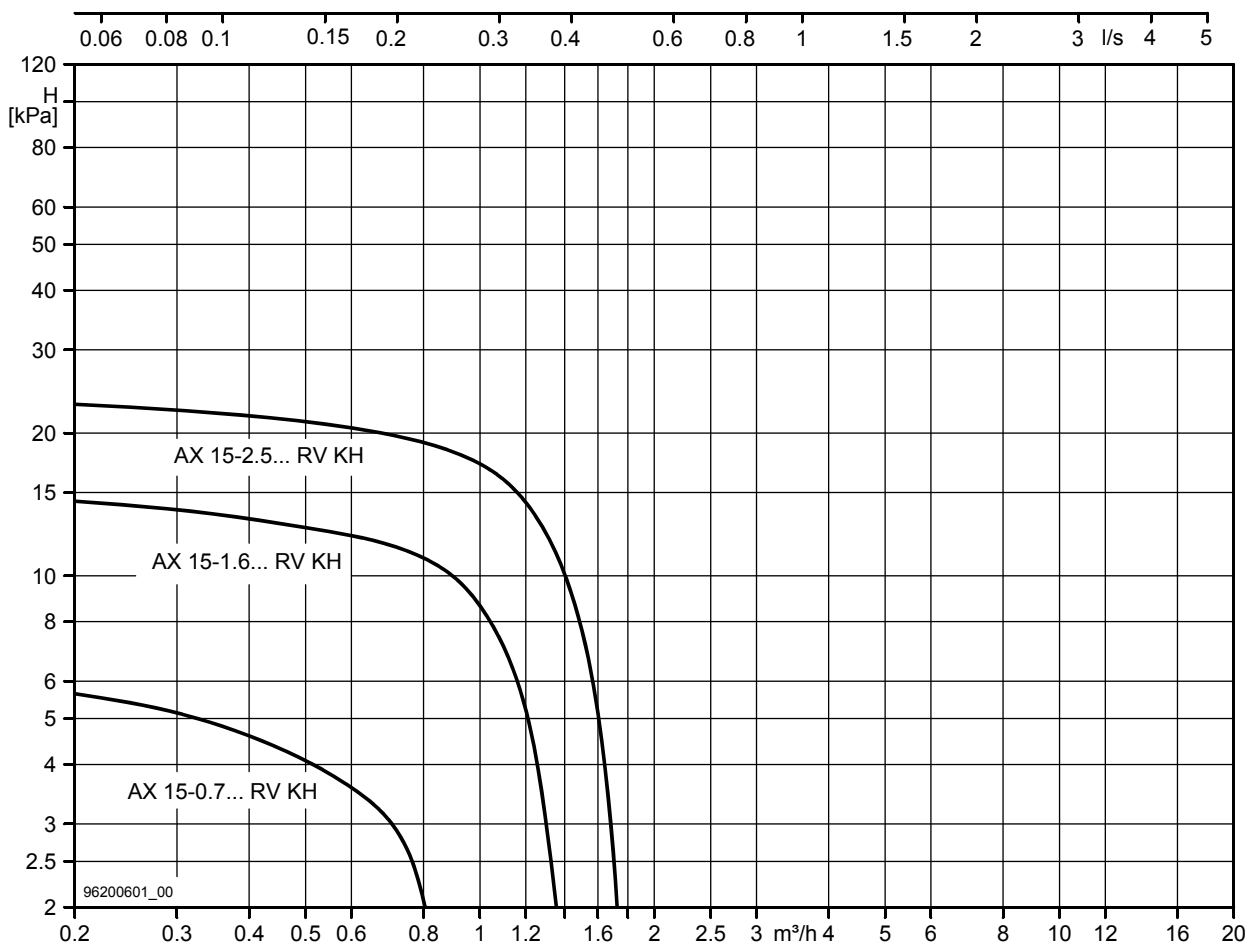
AX... BLUE RV KH

Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.
		DN	m	mm		bar
AX 15-0.7 BLUE RV KH	2206550150	15	0.7	190	G ½"	10
AX 15-1.6 BLUE RV KH	2206560150	15	1.6	190	G ½"	10
AX 15-2.5 BLUE RV KH	2206570150	15	2.5	190	G ½"	10

Ordering reference

	AX	25	-4	180	RED	RV KH
Series						
Nominal width (DN) [mm]						
Discharge head max. [m]						
Installation height [mm]						
Field of application						
Heating (RED)						
Service water (BLUE)						
Non-return valve and ball valve are integrated in the pump						



AX 15-0.7 BLUE RV KH

Nominal width	DN 15
Discharge head max.	0.7 m
Installation length	190 mm
Threaded connector	G 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.5 kg

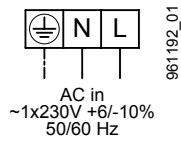
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	5-8 W
Rated current	0.05-0.07 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



L, N, PE Power supply

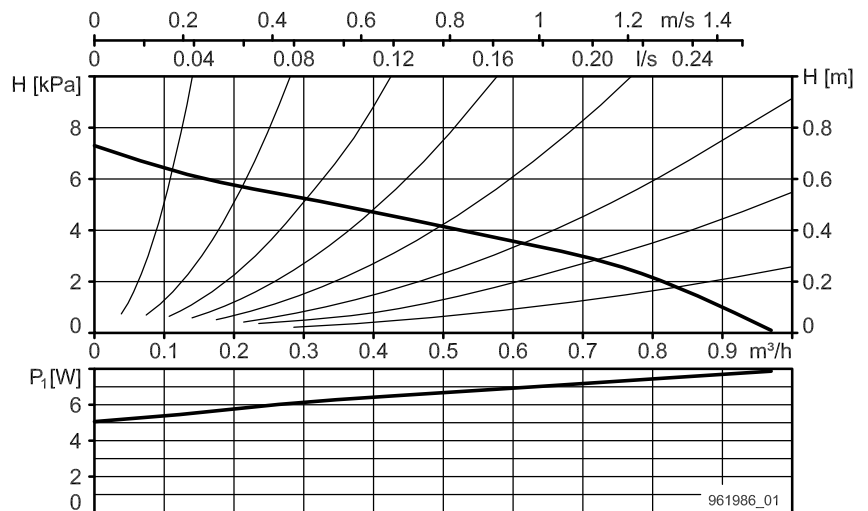
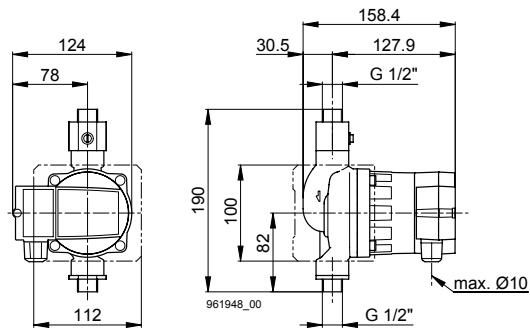
Included in the scope of delivery

- Non-return valve and ball valve are integrated in the pump
- Heat insulation shell
- Sanpress screw connection G 1/2", DN 15

Comments

Pump housing: bronze

Type	Article number Biral
AX 15-0.7 BLUE RV KH	2206550150



961986_01

AX 15-1.6 BLUE RV KH

Nominal width	DN 15
Discharge head max.	1.6 m
Installation length	190 mm
Threaded connector	G 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.5 kg

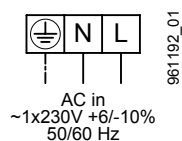
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	9-18 W
Rated current	0.08-0.15 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



L, N, PE Power supply

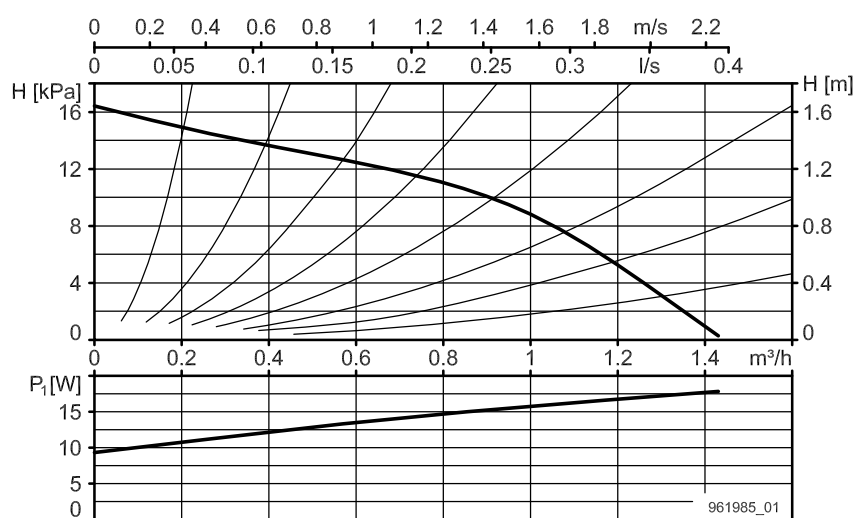
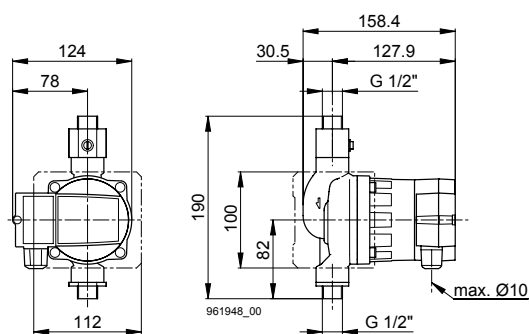
Included in the scope of delivery

- Non-return valve and ball valve are integrated in the pump
- Heat insulation shell
- Sanpress screw connection G 1/2", DN 15

Comments

Pump housing: bronze

Type	Article number Biral
AX 15-1.6 BLUE RV KH	2206560150



AX 15-2.5 BLUE RV KH

Nominal width	DN 15
Discharge head max.	2.5 m
Installation length	190 mm
Threaded connector	G 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.5 kg

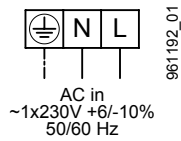
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	14-30 W
Rated current	0.13-0.26 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



L, N, PE Power supply

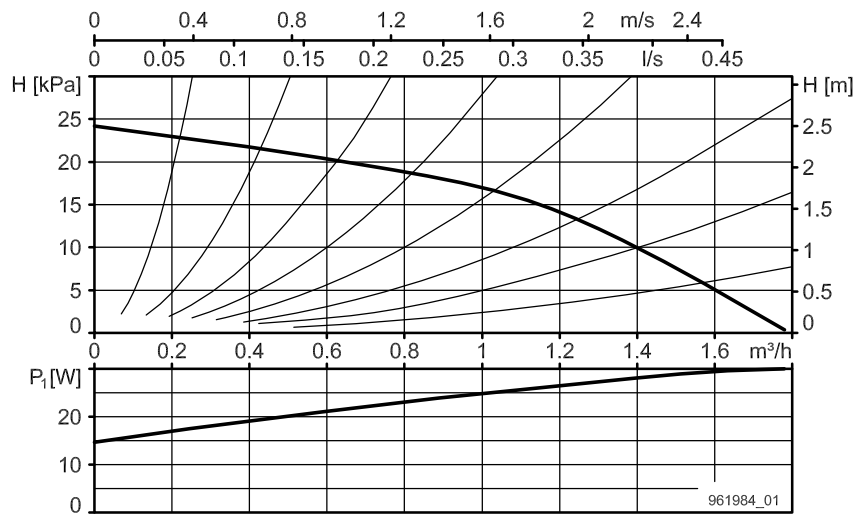
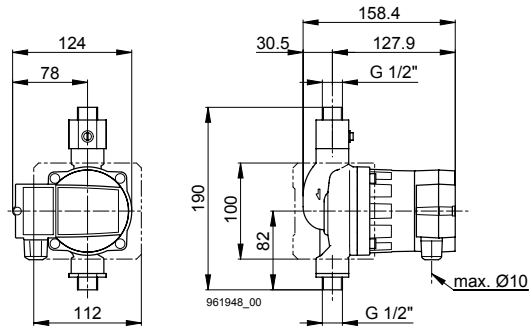
Included in the scope of delivery

- Non-return valve and ball valve are integrated in the pump
- Heat insulation shell
- Sanpress screw connection G 1/2", DN 15

Comments

Pump housing: bronze

Type	Article number Biral
AX 15-2.5 BLUE RV KH	2206570150





Service water pumps

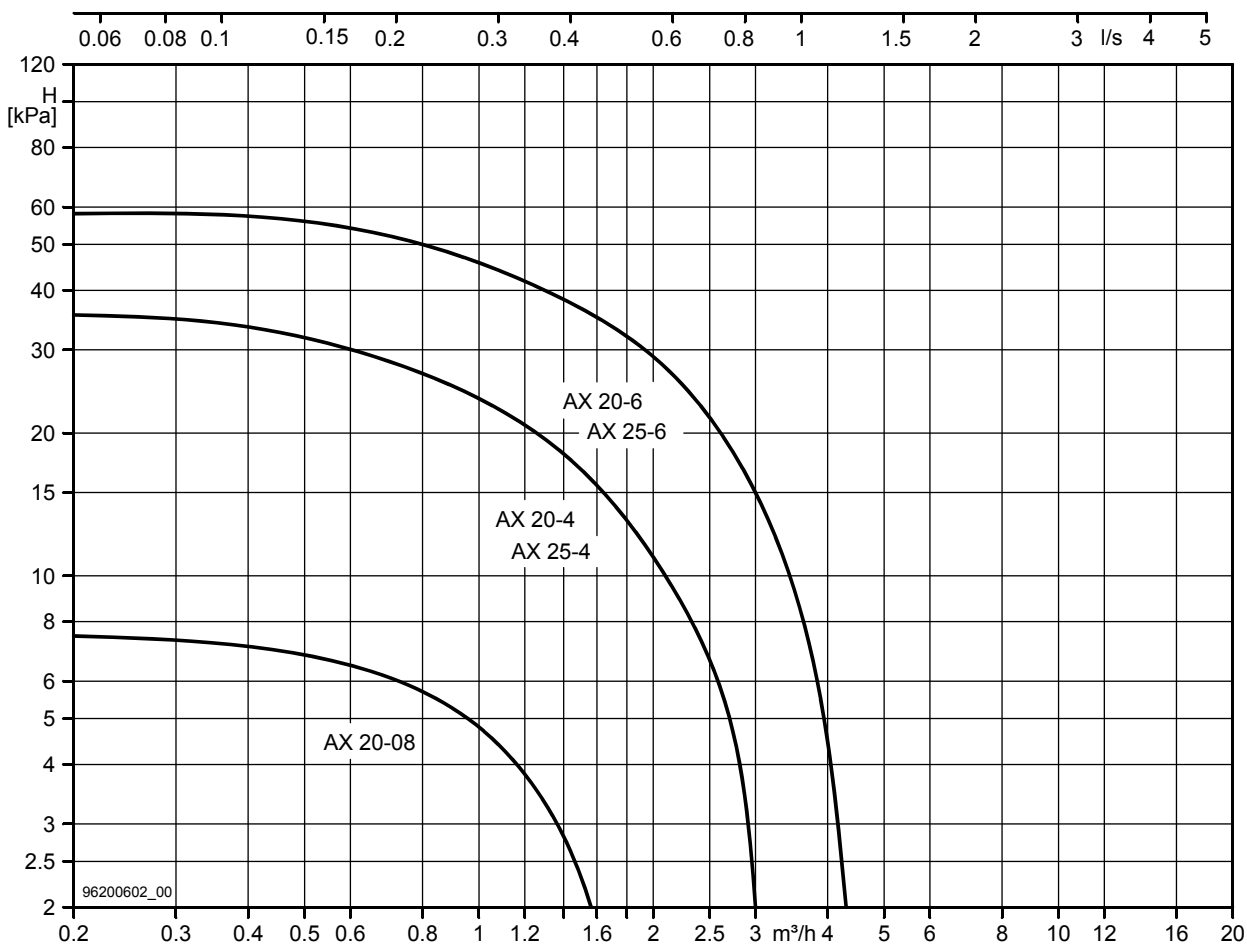
AX... BLUE

Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.
		DN	m	mm		bar
AX 20-0.8 120 BLUE	2206500150	20	0.8	120	G 1¼"	10
AX 20-4 120 BLUE	2206510150	20	4	120	G 1¼"	10
AX 25-4 180 BLUE	2206520150	25	4	180	G 1½"	10
AX 20-6 150 BLUE	2206530150	20	6	150	G 1¼"	10
AX 25-6 180 BLUE	2206540150	25	6	180	G 1½"	10

Ordering reference

	AX	25	-4	180	RED
Series					
Nominal width (DN) [mm]					
Discharge head max. [m]					
Installation height [mm]					
Field of application					
Heating (RED)					
Service water (BLUE)					



AX 20-0.8 120 BLUE

Nominal width	DN 20
Discharge head max.	0.8 m
Installation length	120 mm
Threaded connector	G 1 1/4"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.3 kg

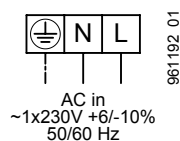
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	4-7 W
Rated current	0.04-0.08 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



L, N, PE Power supply

Included in the scope of delivery

– Heat insulation shell

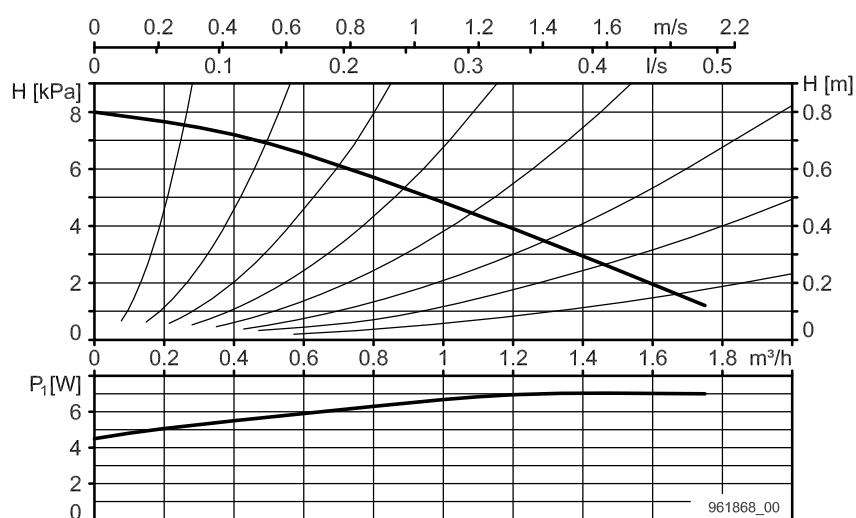
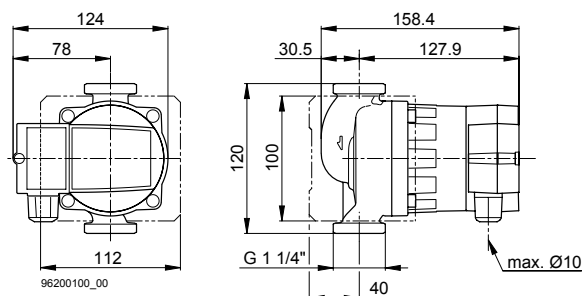
Accessories

– Absperrset (Rückschlagventil und Kugelabsperrhahn)

Comments

Pump housing: bronze

Type	Article number Biral
AX 20-0.8 120 BLUE	2206500150



AX 20-4 120 BLUE

Nominal width	DN 20
Discharge head max.	4 m
Installation length	120 mm
Threaded connector	G 1 1/4"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.3 kg

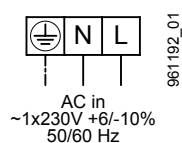
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	5-22 W
Rated current	0.05-0.19 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



L, N, PE Power supply

Included in the scope of delivery

– Heat insulation shell

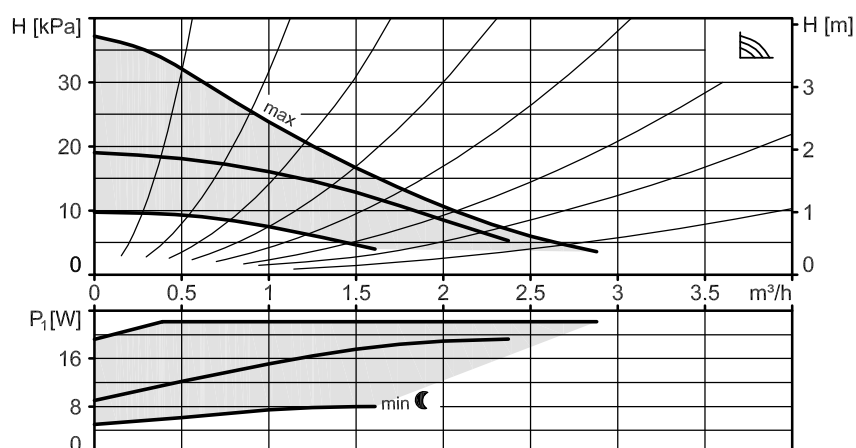
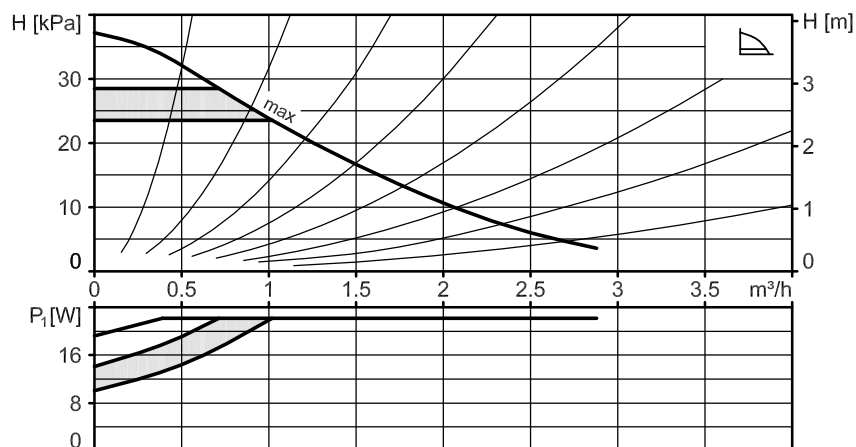
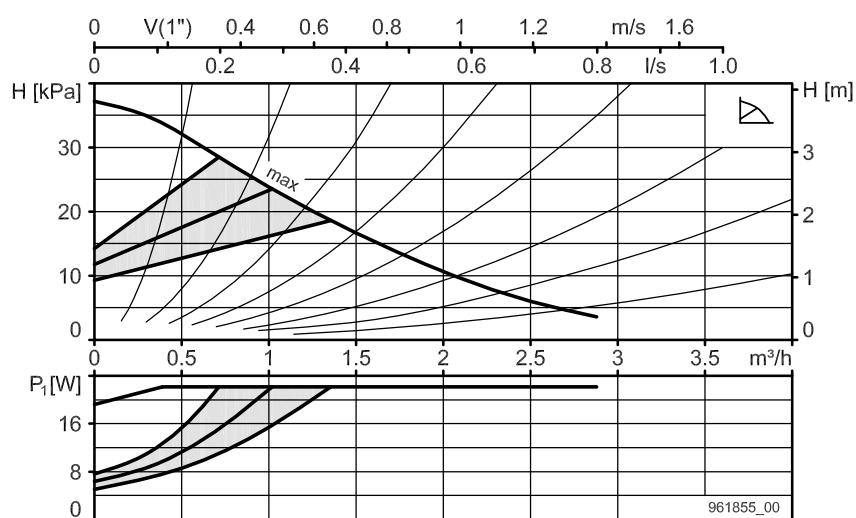
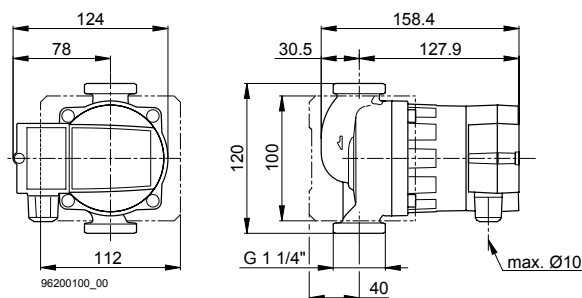
Accessories

– Abspersset (Rückschlagventil und Kugelabsperrhahn)

Comments

Pump housing: bronze

Type	Article number Biral
AX 20-4 120 BLUE	2206510150



AX 25-4 180 BLUE

Nominal width	DN 25
Discharge head max.	4 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.3 kg

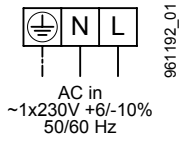
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	5-22 W
Rated current	0.05-0.19 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



L, N, PE Power supply

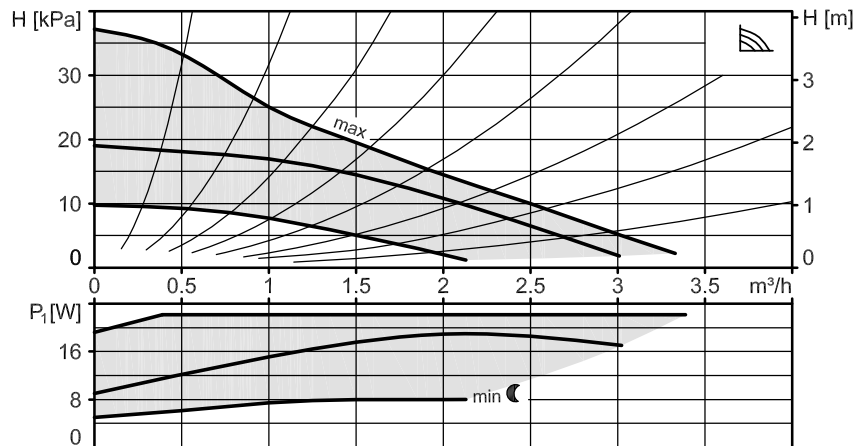
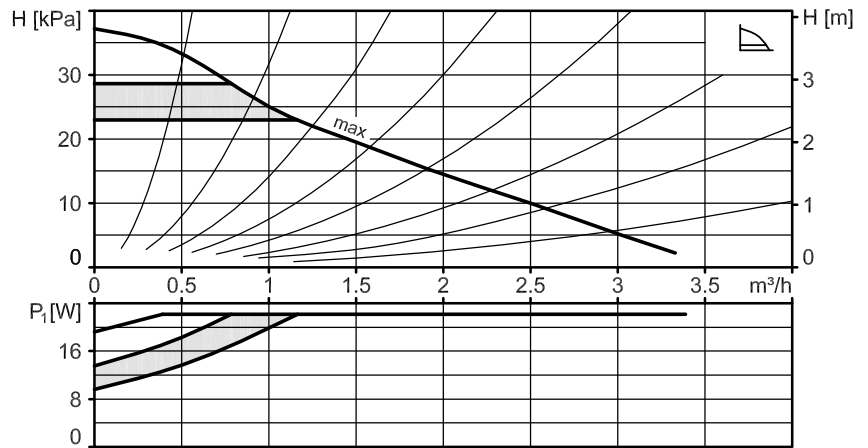
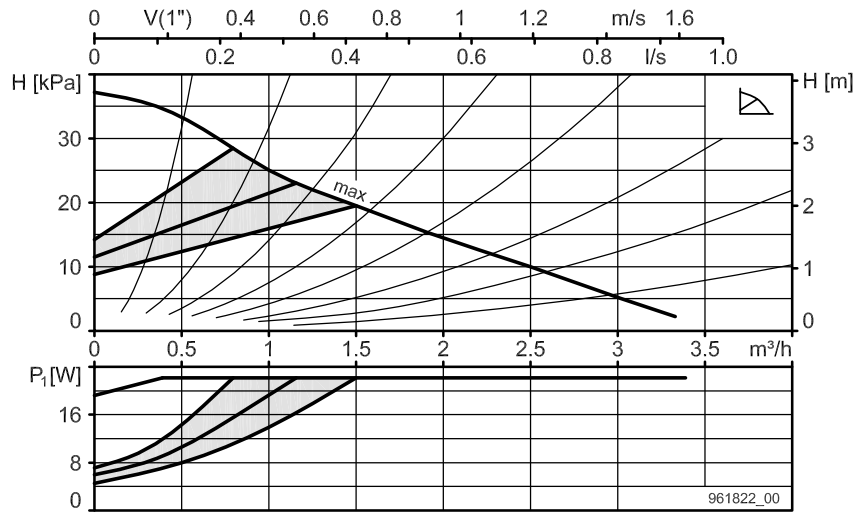
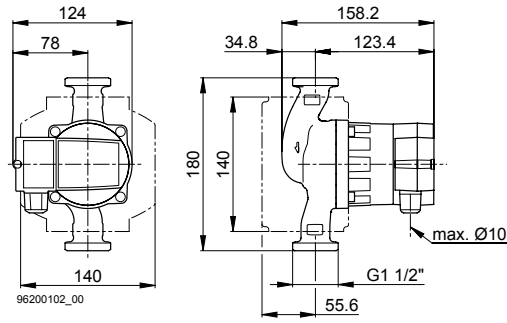
Included in the scope of delivery

- Heat insulation shell

Comments

Pump housing: bronze
Shut-off set not available

Type	Article number Biral
AX 25-4 180 BLUE	2206520150



AX 20-6 150 BLUE

Nominal width	DN 20
Discharge head max.	6 m
Installation length	150 mm
Threaded connector	G 1 1/4"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.3 kg

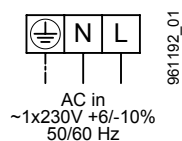
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	5-45 W
Rated current	0.05-0.38 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



L, N, PE Power supply

Included in the scope of delivery

– Heat insulation shell

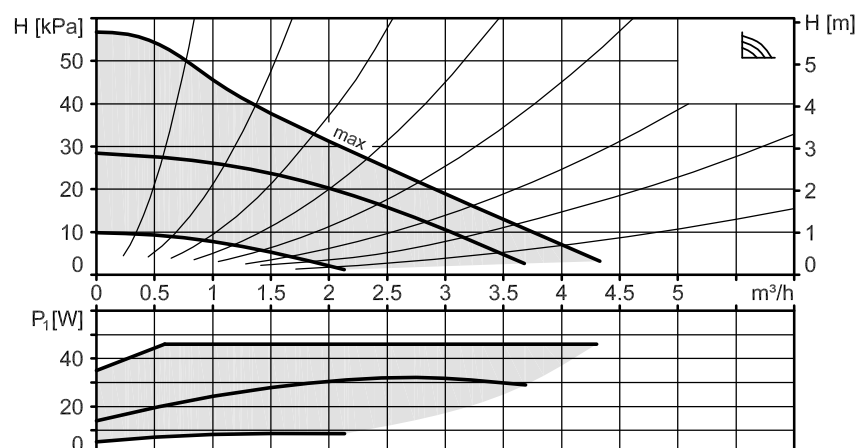
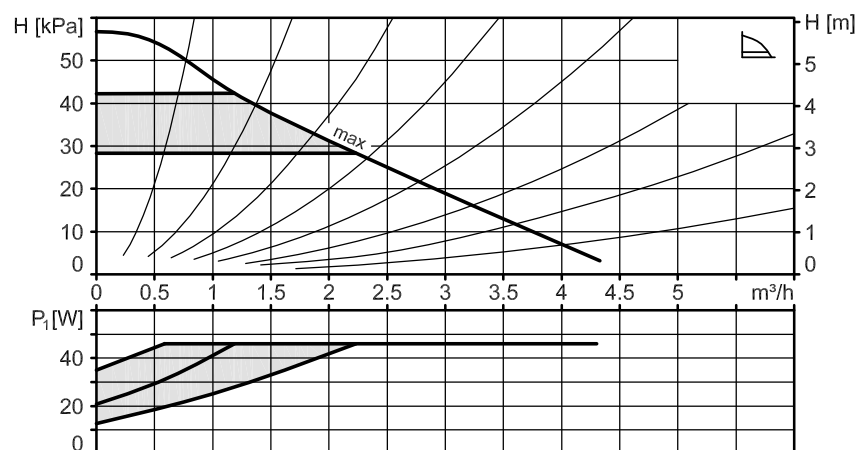
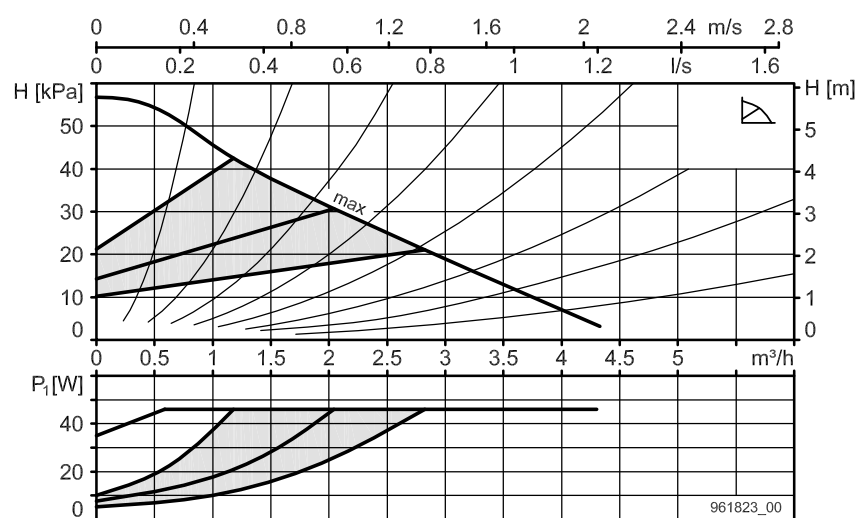
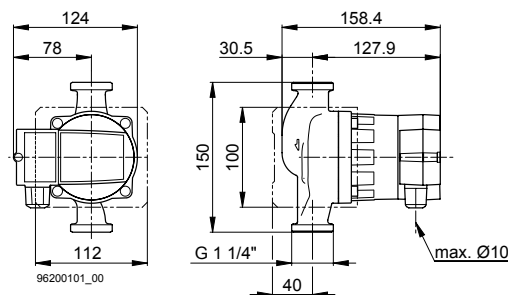
Accessories

– Abspersset (Rückschlagventil und Kugelabsperrhahn)

Comments

Pump housing: bronze

Type	Article number Biral
AX 20-6 150 BLUE	2206530150



AX 25-6 180 BLUE

Nominal width	DN 25
Discharge head max.	6 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	2.3 kg

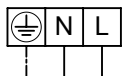
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	5-45 W
Rated current	0.05-0.38 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.05 bar
at 85°C water temperature	0.30 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



961192_01

AC in
~1x230V +6/-10%
50/60 Hz

L, N, PE Power supply

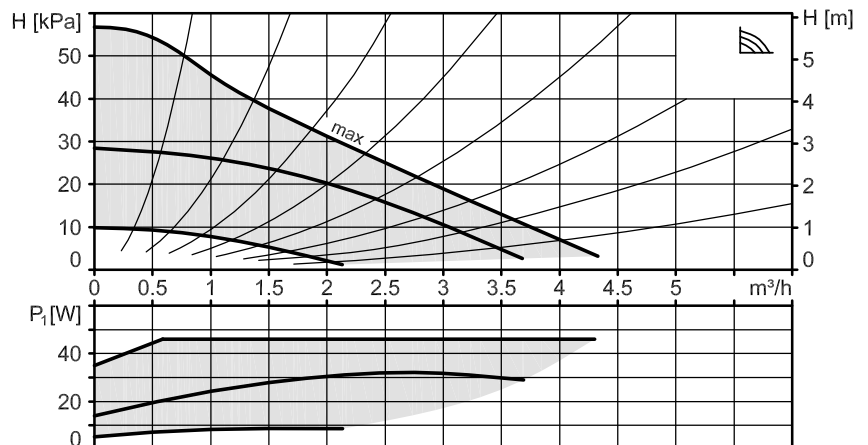
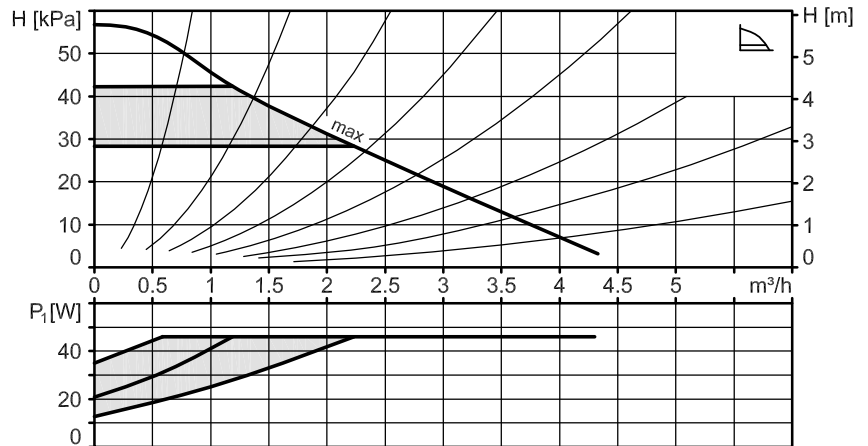
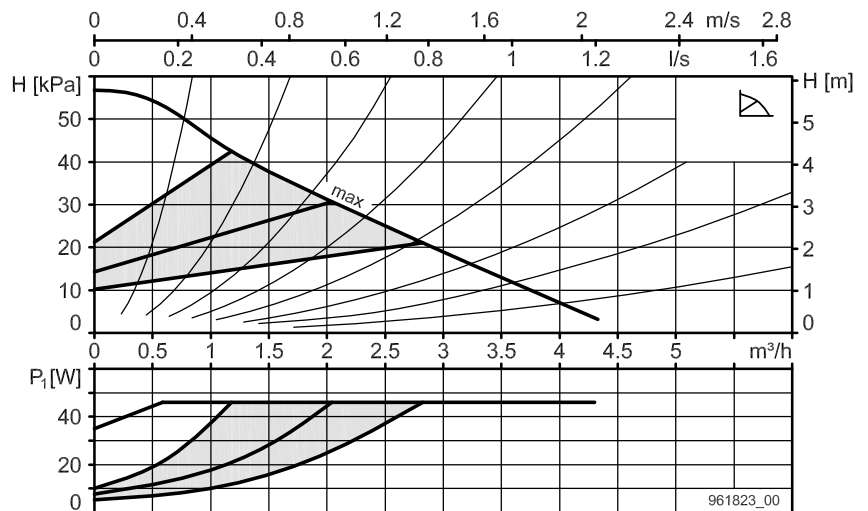
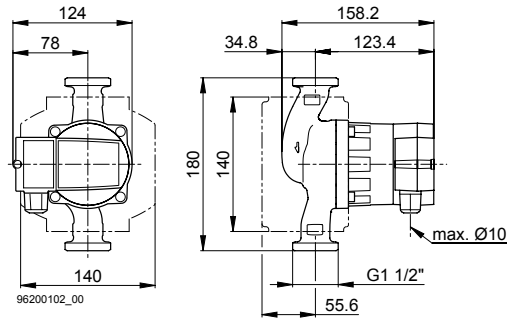
Included in the scope of delivery

- Heat insulation shell

Comments

Pump housing: bronze
Shut-off set not available

Type	Article number Biral
AX 25-6 180 BLUE	2206540150





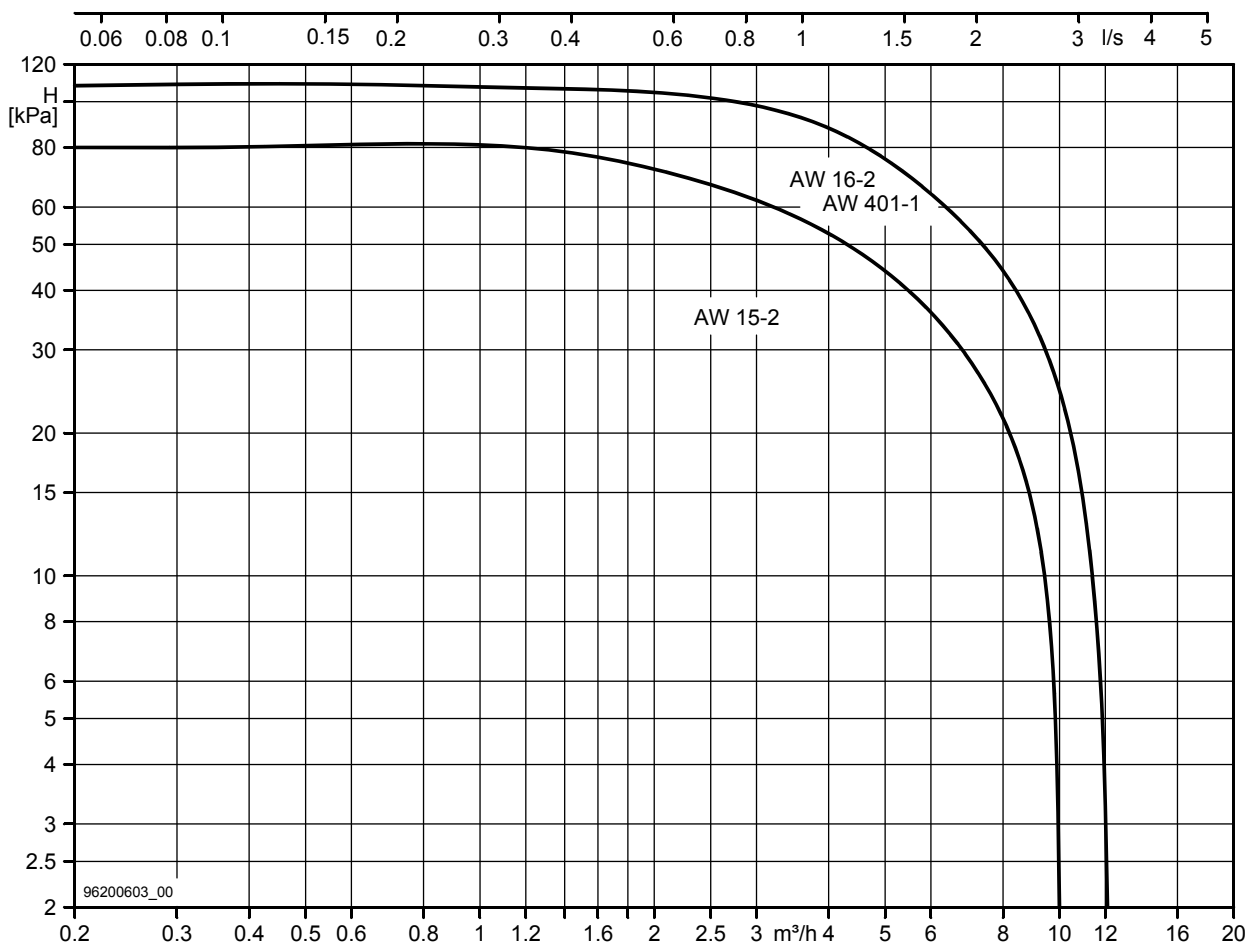
Service water pumps

AW

Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.
		DN	m	mm		bar
AW 15-2	1158620150	32	8	180	G 2"	10
AW 16-2	1161720150	32	11	180	G 2"	10

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.
		DN	m	mm		bar
AW 401-1	1161400150	40	11	250	PN 6/10	10



AW 15-2

Nominal width	DN 32
Discharge head max.	8 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	4.2 kg

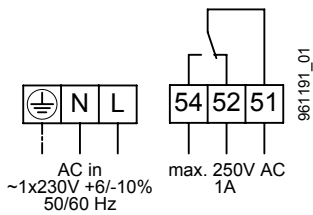
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-107 W
Rated current	0.1-0.8 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 85°C water temperature	0.55 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



52, 54, 51 Error or operating message
L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

- Heat insulation shell

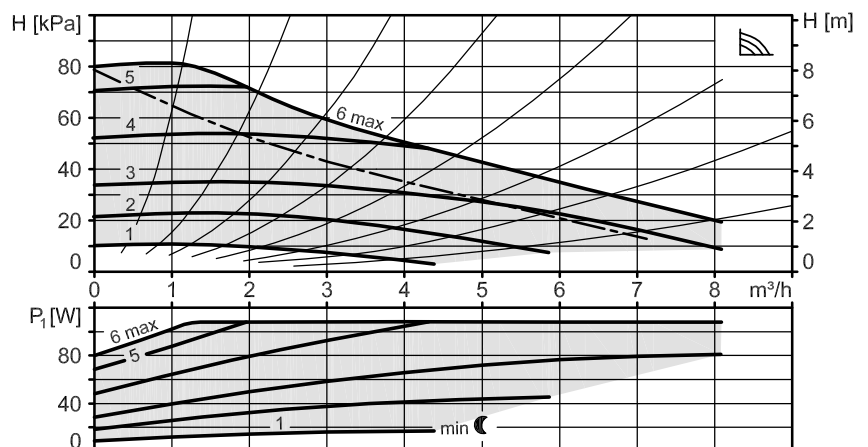
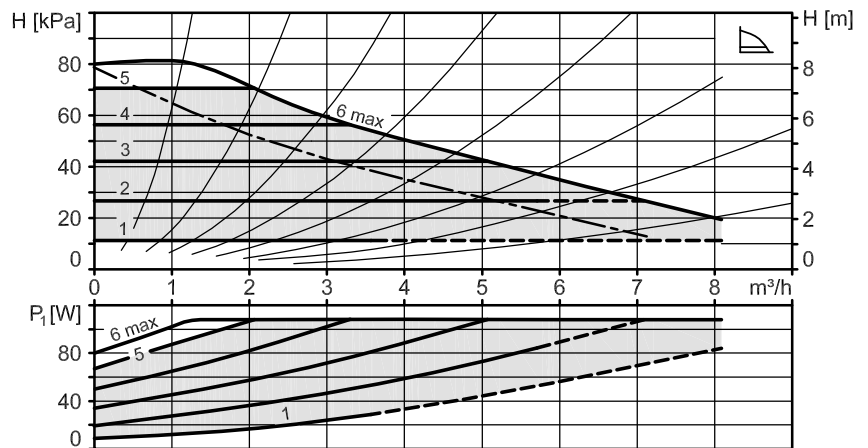
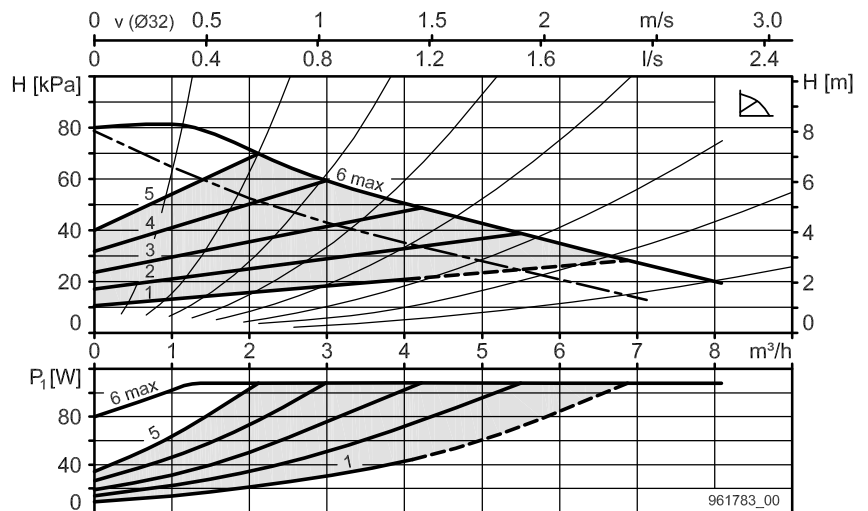
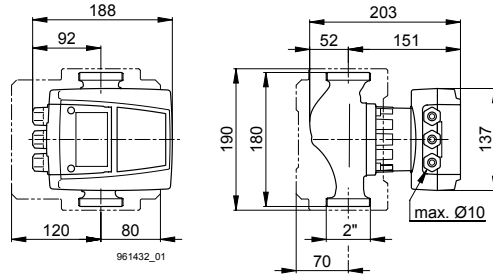
Accessories

- BIM A signal module
- BIM B control module

Comments

Pump housing: bronze

Type	Article number Biral
AW 15-2	1158620150



AW 16-2

Nominal width	DN 32
Discharge head max.	11 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	4.2 kg

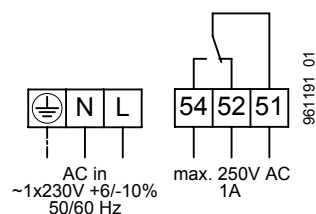
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 85°C water temperature	0.55 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



52, 54, 51 Error or operating message

L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

- Heat insulation shell

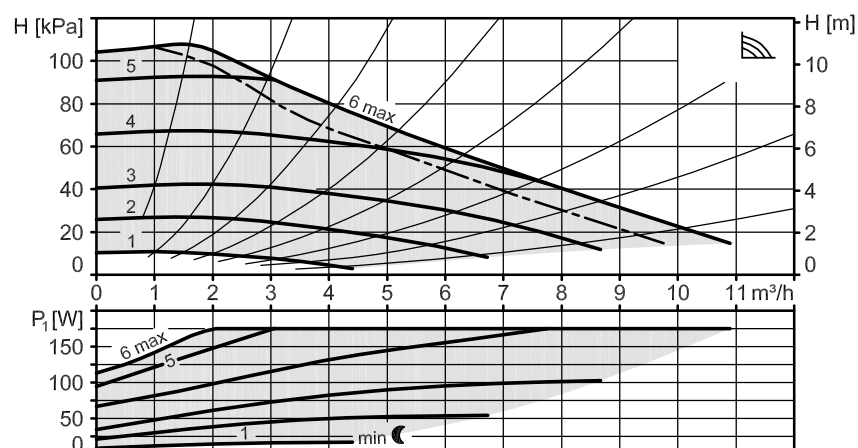
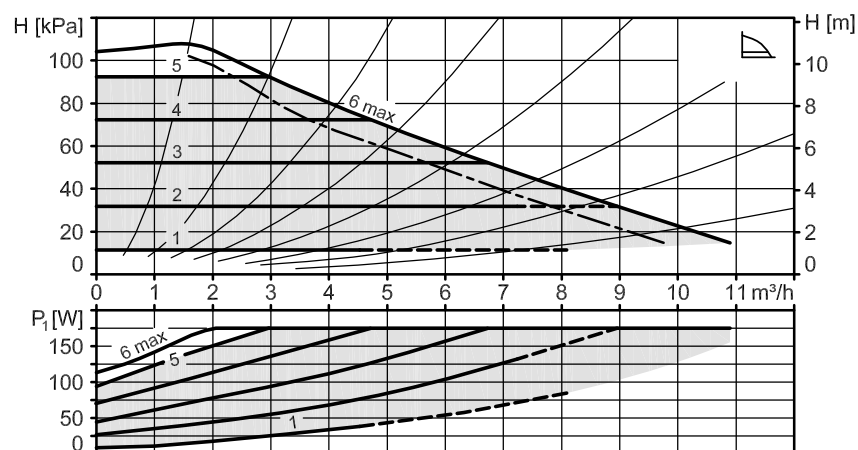
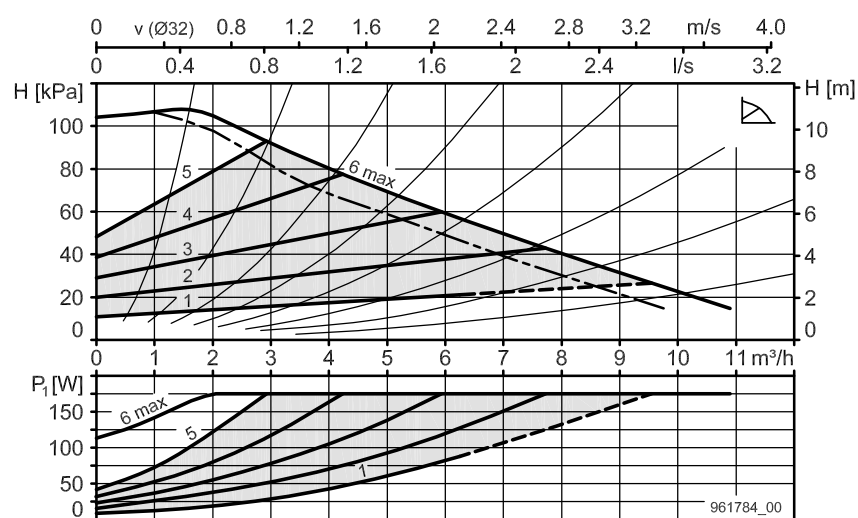
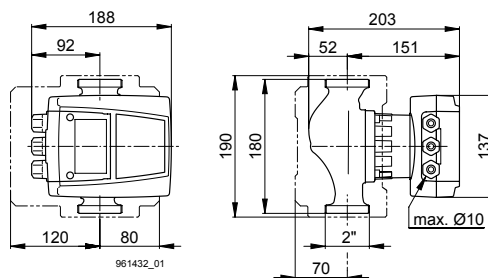
Accessories

- BIM A signal module
- BIM B control module

Comments

Pump housing: bronze

Type	Article number Biral
AW 16-2	1161720150



AW 401-1

Nominal width	DN 40
Discharge head max.	11 m
Installation length	250 mm
Flange connection	PN 6/10
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Permissible water hardness at 65°C	max. 35°FH = 20°dH
Permissible water hardness at 85°C	max. 25°FH = 14°dH
Net weight	9.0 kg

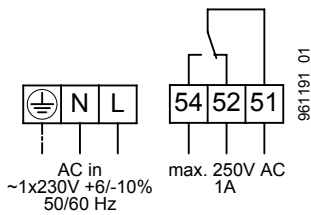
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	8-174 W
Rated current	0.1-1.25 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.10 bar
at 85°C water temperature	0.55 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



52, 54, 51 Error or operating message
L, N, PE Power supply

Switch

- 1 Power limiting (can be deactivated)
- 2 Fault or operating message (switchable)

Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

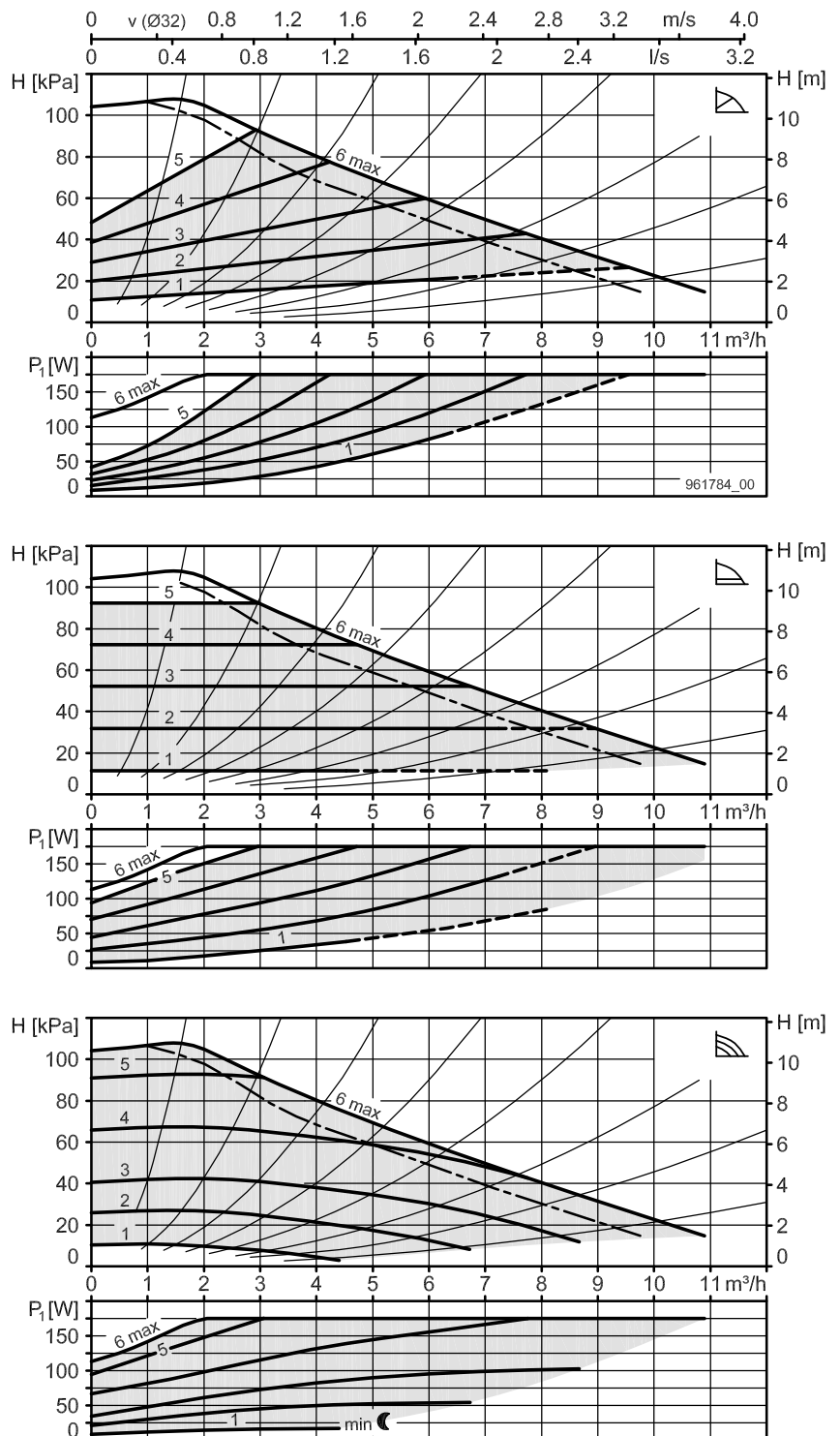
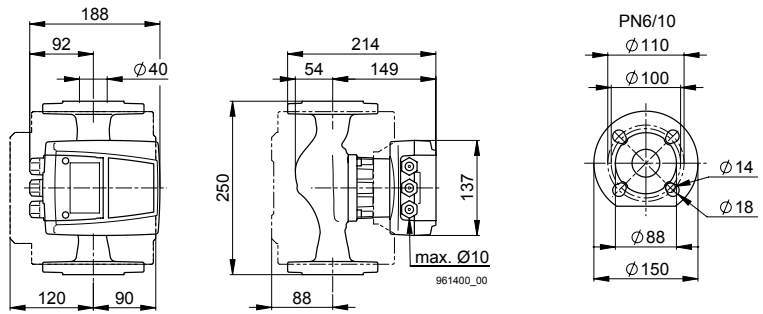
Accessories

- BIM A signal module
- BIM B control module
- Sealing set for flange PN10 / PN16

Comments

Pump housing: bronze

Type	Article number Biral
AW 401-1	1161400150





Premium service water pumps

ModulA...BLUE

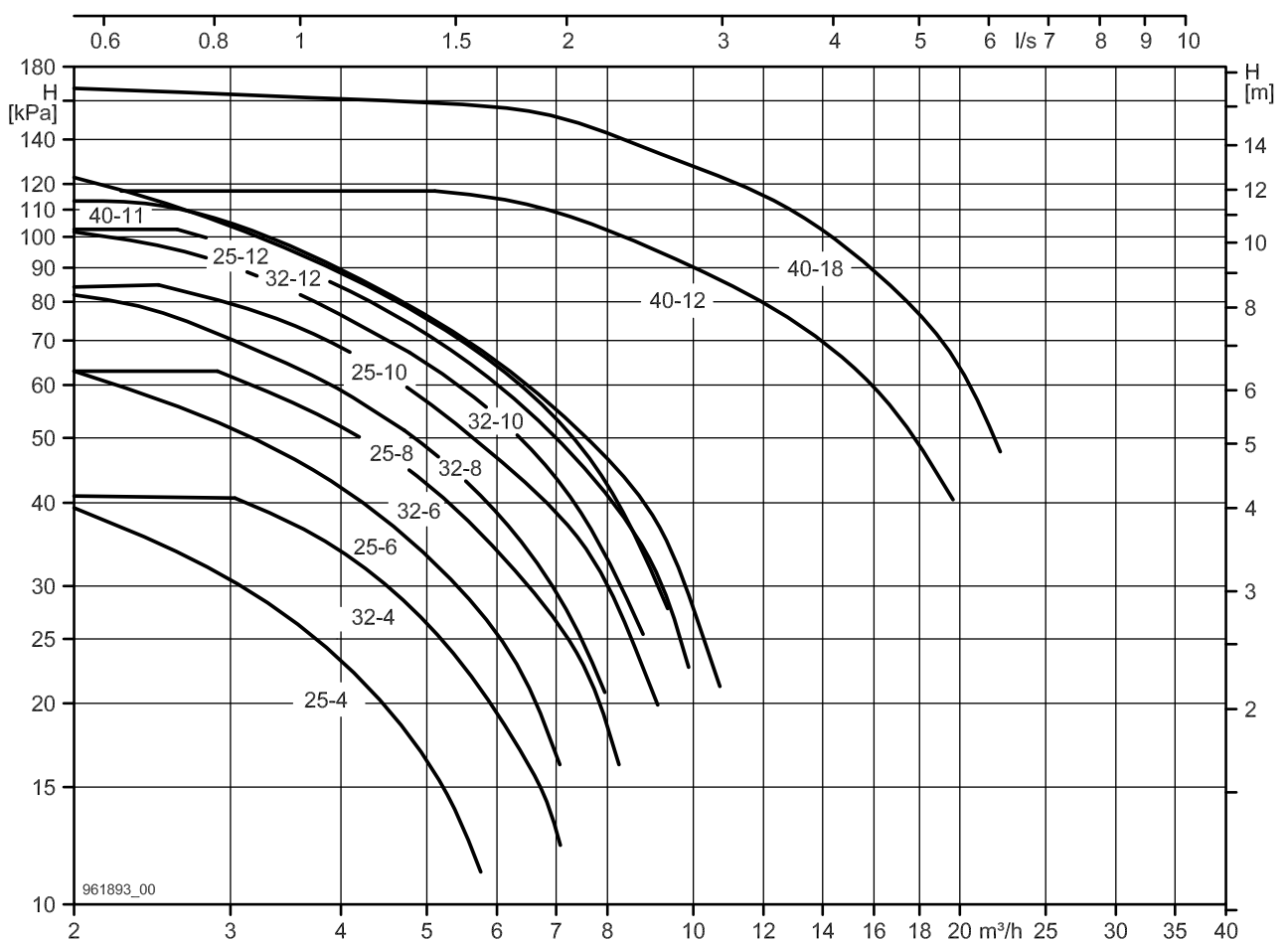
Summary

Type		Nominal width	Discharge head max.	Installation length	Threaded connector	Operating pressure max.
		DN	m	mm		bar
ModulA 25-4 180 BLUE	2205080150	25	4	180	G 1½"	10
ModulA 25-6 180 BLUE	2205090150	25	6	180	G 1½"	10
ModulA 25-8 180 BLUE	2205100150	25	8	180	G 1½"	10
ModulA 25-10 180 BLUE	2205110150	25	10	180	G 1½"	10
ModulA 25-12 180 BLUE	2205120150	25	12	180	G 1½"	10
ModulA 32-4 180 BLUE	2205130150	32	4	180	G 2"	10
ModulA 32-6 180 BLUE	2205140150	32	6	180	G 2"	10
ModulA 32-8 180 BLUE	2205150150	32	8	180	G 2"	10
ModulA 32-10 180 BLUE	2205160150	32	10	180	G 2"	10
ModulA 32-12 180 BLUE	2205170150	32	12	180	G 2"	10

Type		Nominal width	Discharge head max.	Installation length	Flange connection	Operating pressure max.
		DN	m	mm		bar
ModulA 40-11 250 BLUE	2205180150	40	11	250	PN 6-16	16
ModulA 40-12 250 BLUE	2201630150	40	12	250	PN 6-16	16
ModulA 40-18 250 BLUE	2201640150	40	18	250	PN 6-16	16

Order reference

	Modula	(-D)	32	(F)	-6	220	RED
Series							
Single pump							
Twin pump (-D)							
Nominal width (DN) [mm]							
Pipeline connection Flange (F)							
Discharge head max. [m]							
Installation height [mm]							
Field of application Heating (RED) Cold water (GREEN) Service water (BLUE)							



ModuA 25-4 180 BLUE

Nominal width	DN 25
Discharge head max.	4 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	4.8 kg

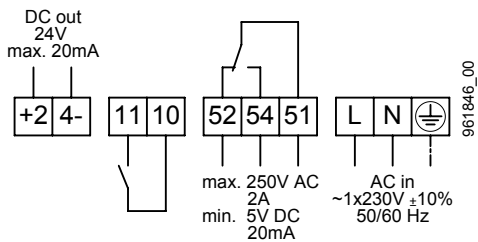
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-52 W
Rated current	0.1-0.39 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- Fault or operating message (switchable)
- External OFF or external ON (switchable)
- Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

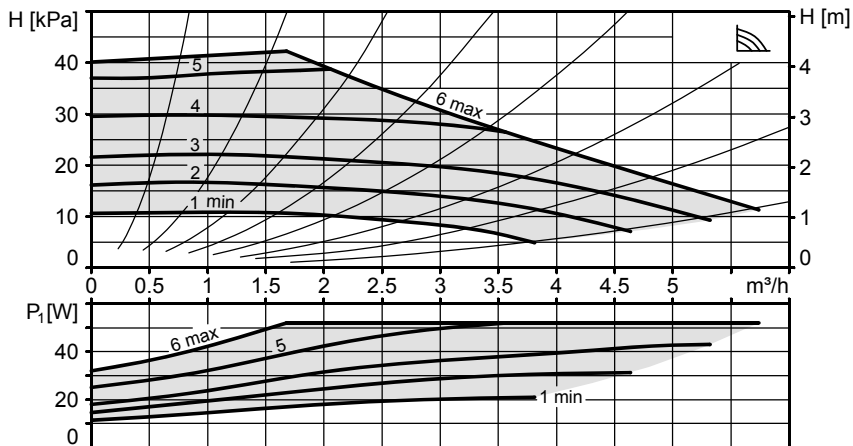
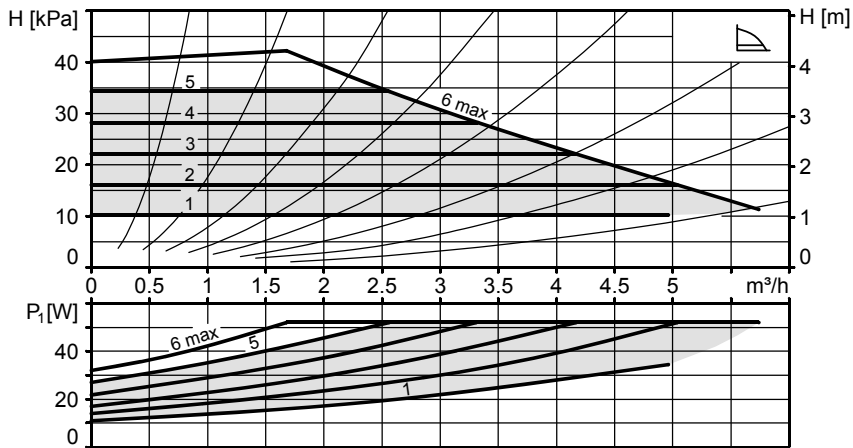
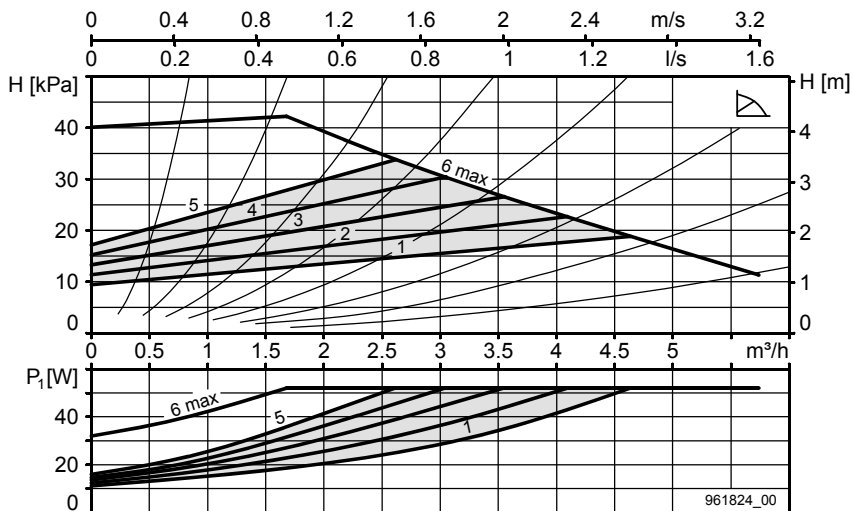
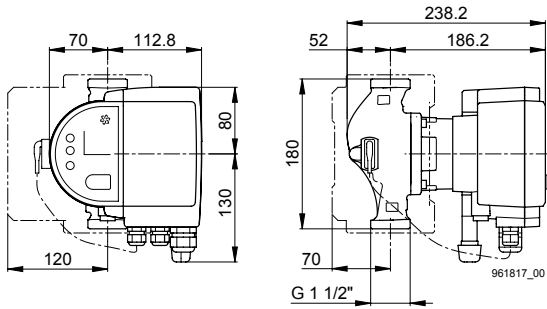
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 25-4 180 BLUE	2205080150



ModuA 25-6 180 BLUE

Nominal width	DN 25
Discharge head max.	6 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	4.8 kg

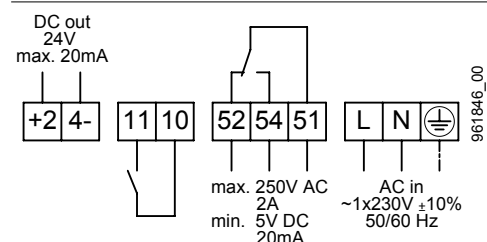
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	12-86 W
Rated current	0.1-0.64 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

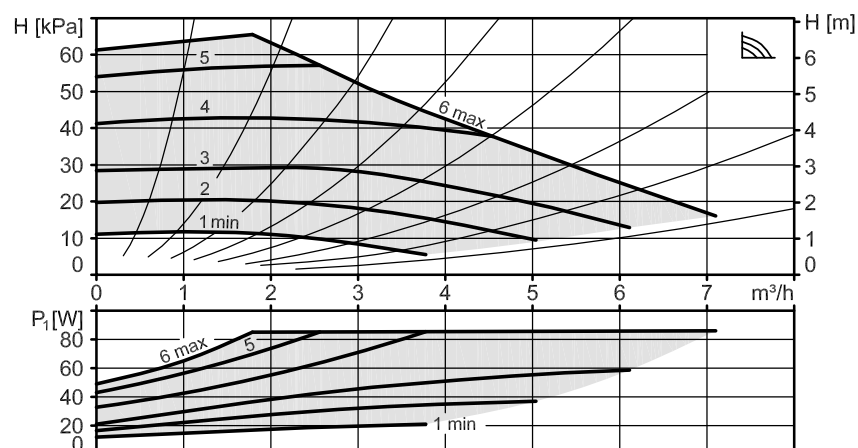
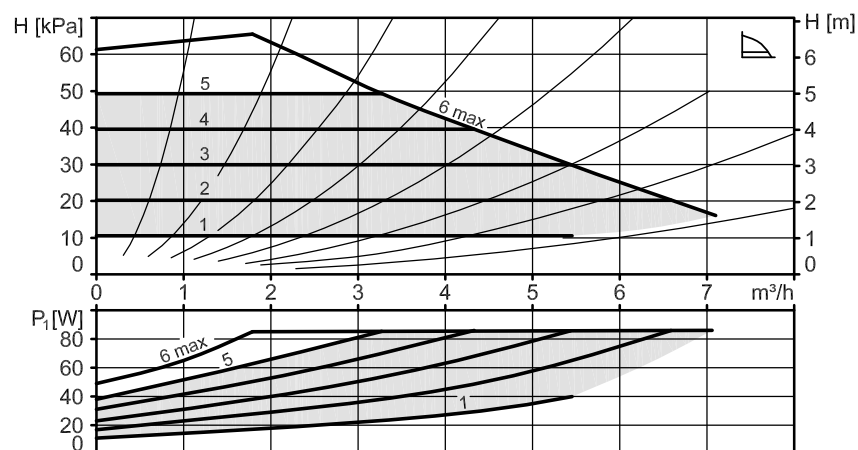
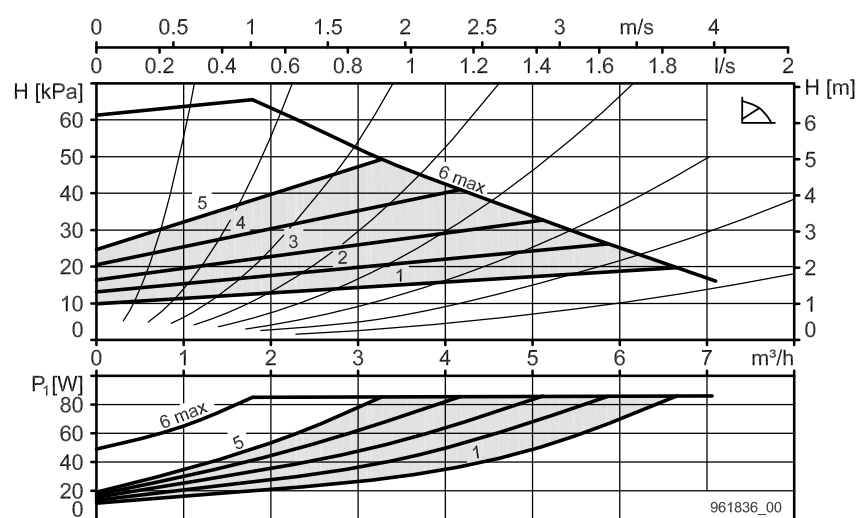
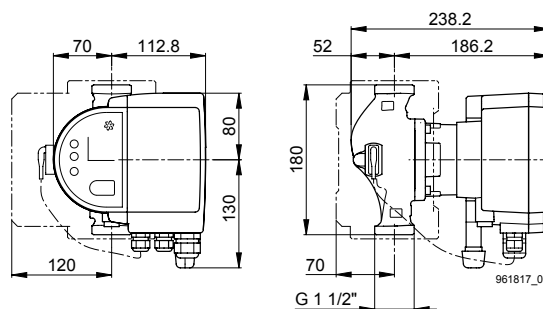
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 25-6 180 BLUE	2205090150



ModuA 25-8 180 BLUE

Nominal width	DN 25
Discharge head max.	8 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	4.8 kg

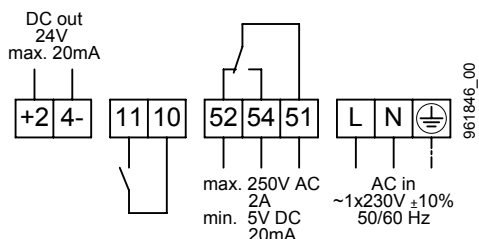
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-120 W
Rated current	0.1-0.91 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ±100 m altitude	±0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

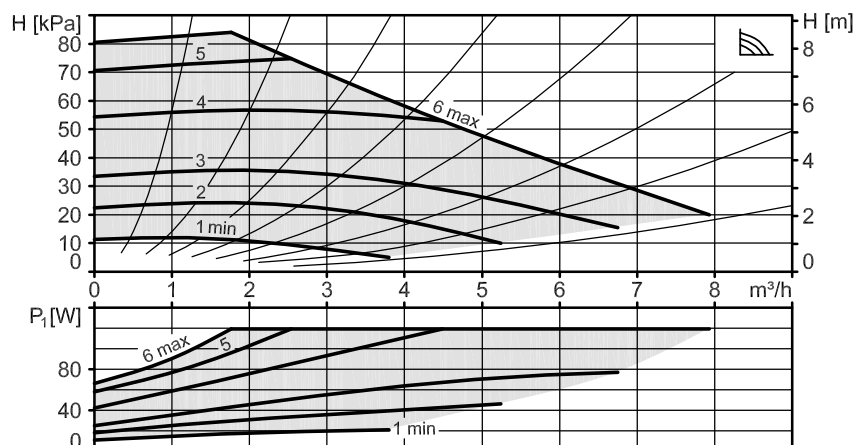
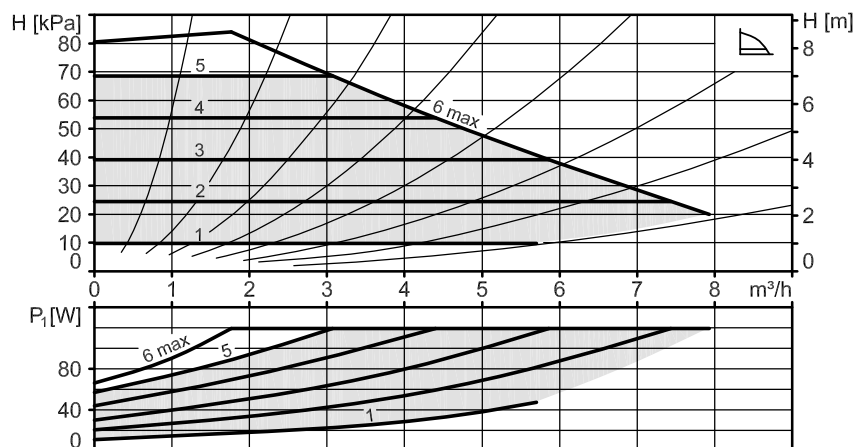
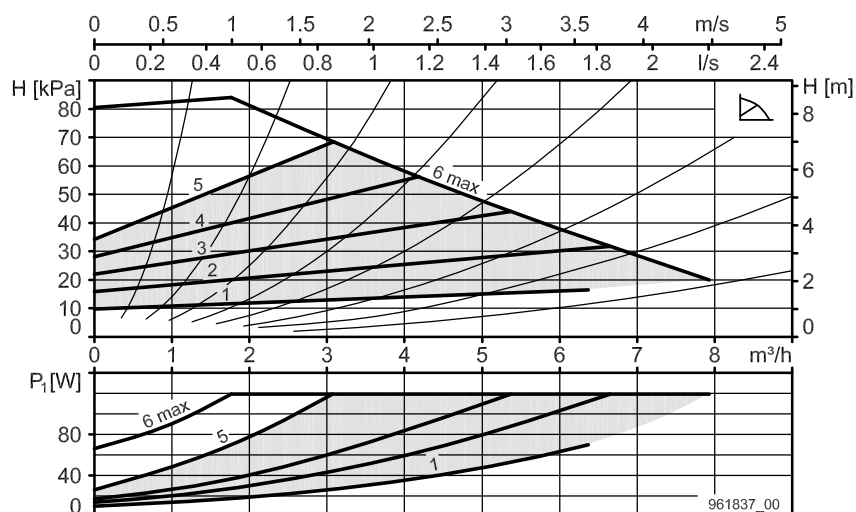
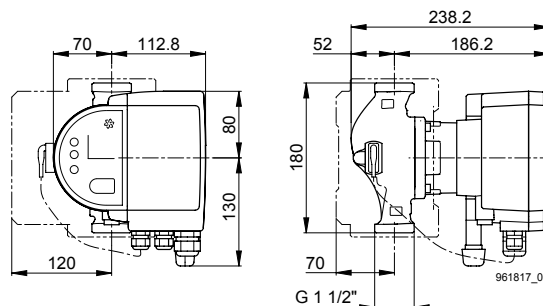
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 25-8 180 BLUE	2205100150



ModuA 25-10 180 BLUE

Nominal width	DN 25
Discharge head max.	10 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	4.8 kg

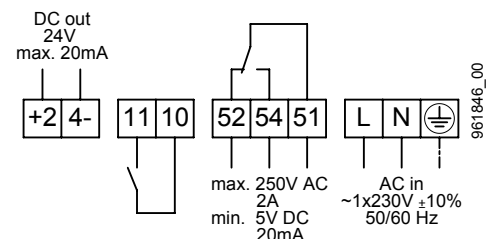
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-158 W
Rated current	0.1-1.24 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

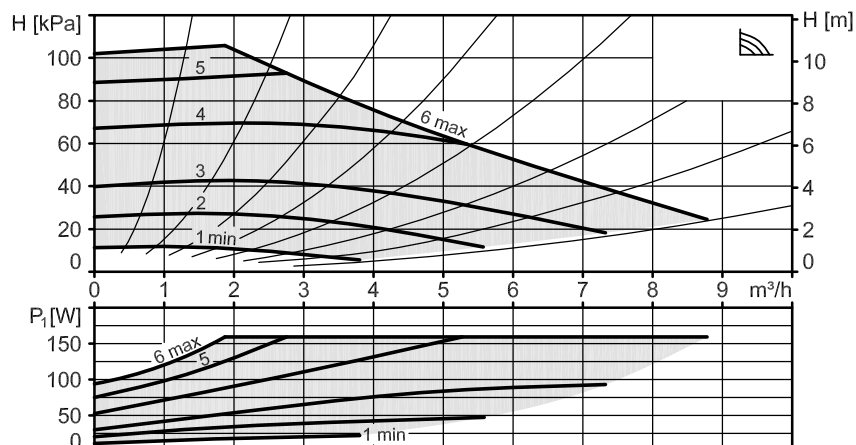
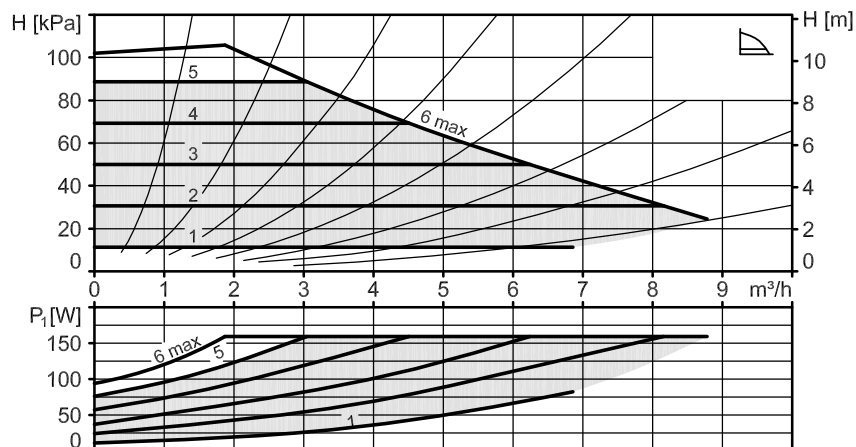
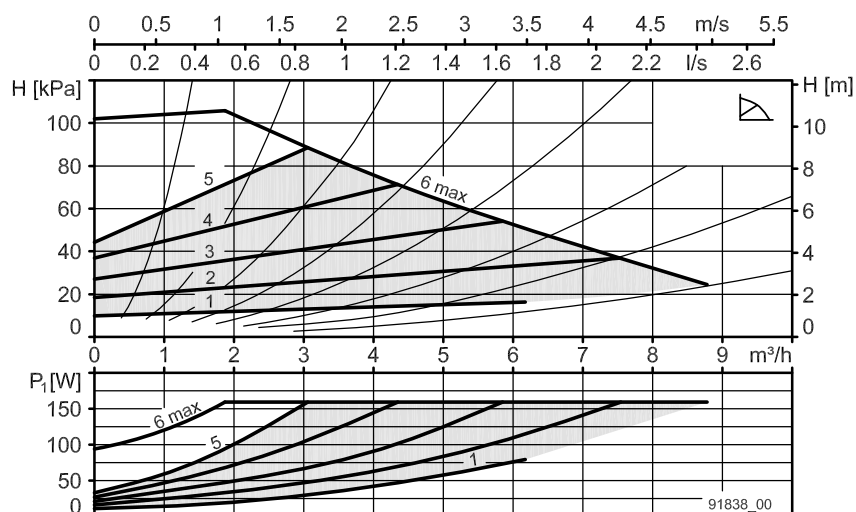
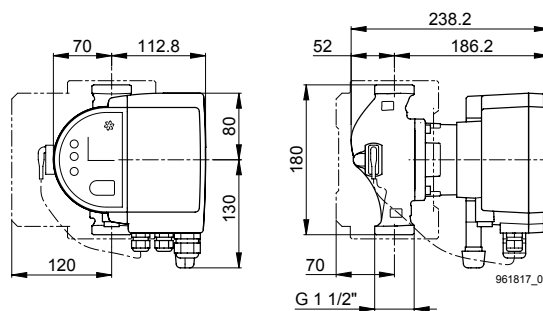
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 25-10 180 BLUE	2205110150



ModuA 25-12 180 BLUE

Nominal width	DN 25
Discharge head max.	12 m
Installation length	180 mm
Threaded connector	G 1 1/2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	4.8 kg

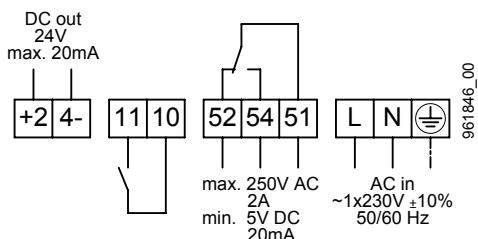
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-188 W
Rated current	0.1-1.47 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

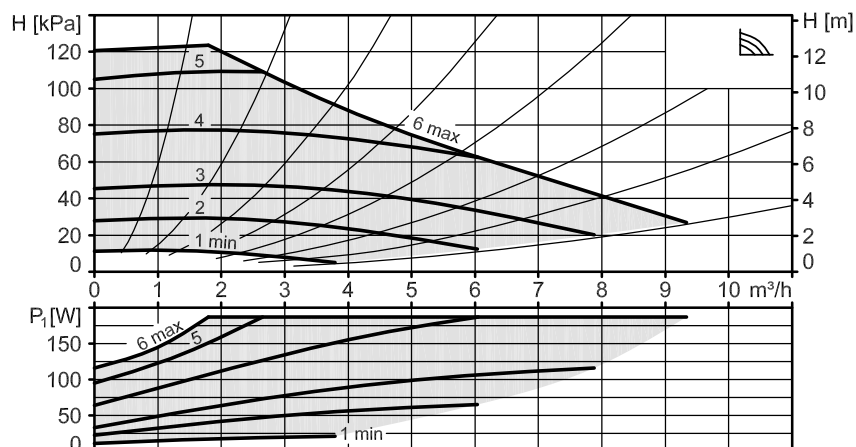
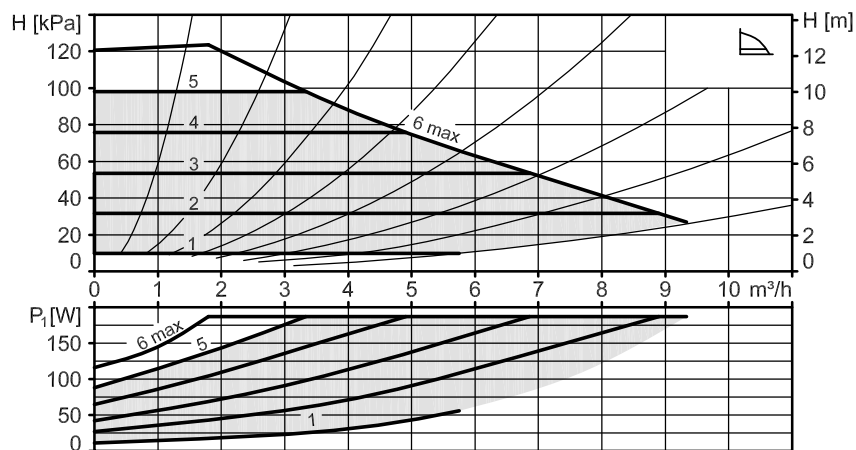
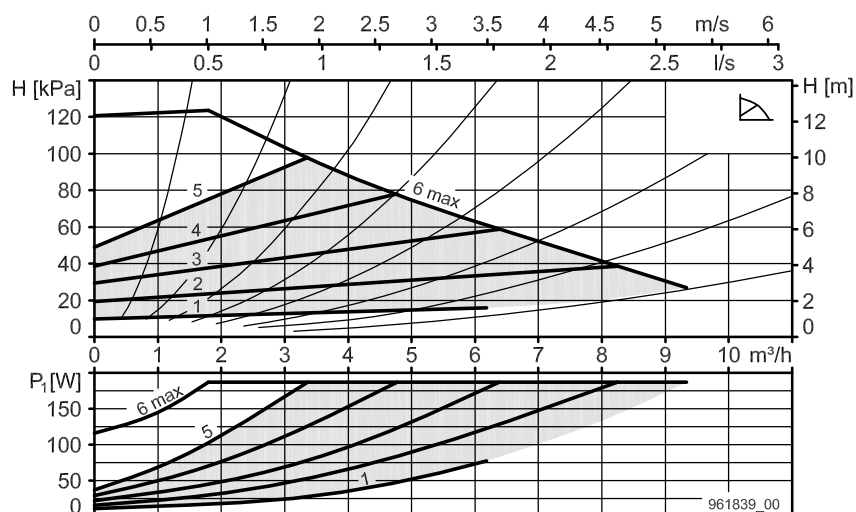
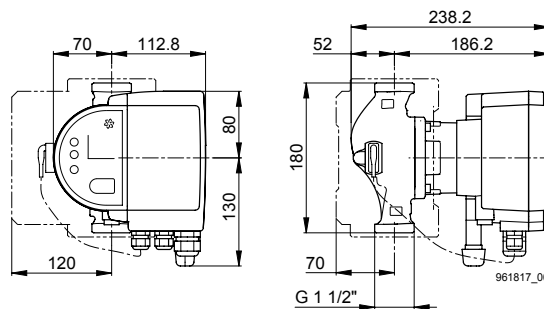
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 25-12 180 BLUE	2205120150



Modula 32-4 180 BLUE

Nominal width	DN 32
Discharge head max.	4 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	5.0 kg

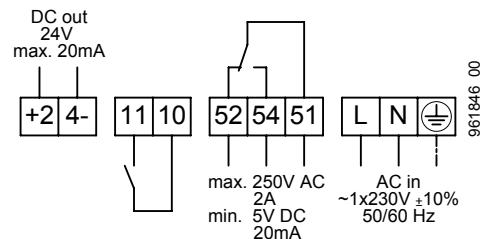
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-70 W
Rated current	0.1-0.5 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

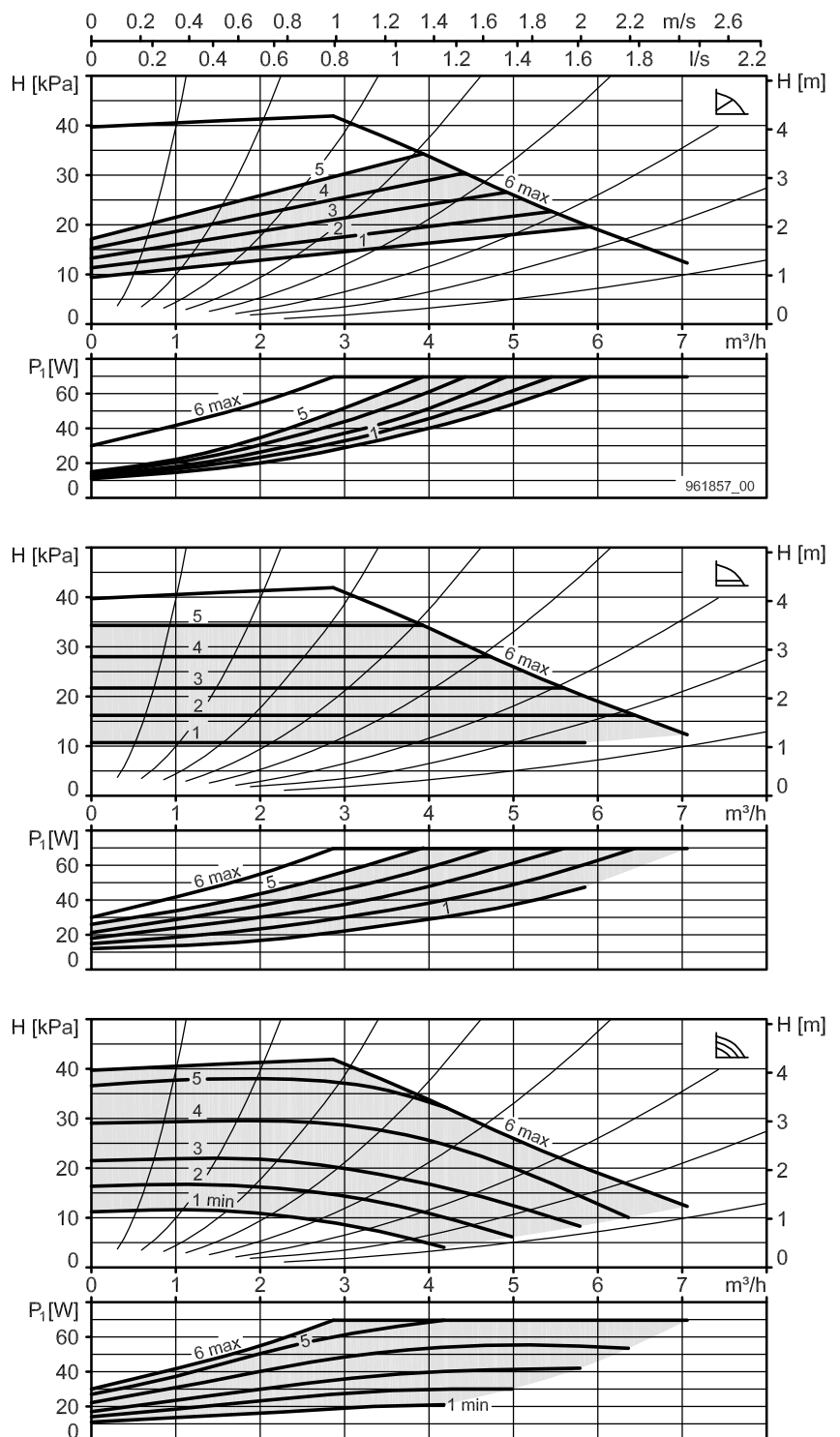
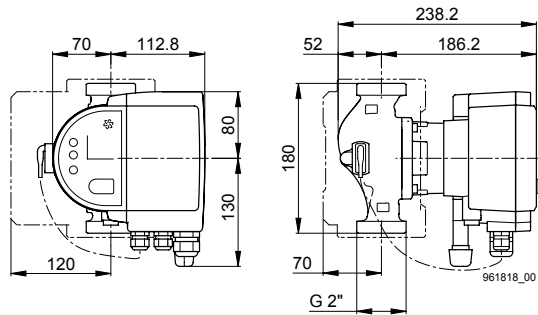
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
Modula 32-4 180 BLUE	2205130150



Modula 32-6 180 BLUE

Nominal width	DN 32
Discharge head max.	6 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	5.0 kg

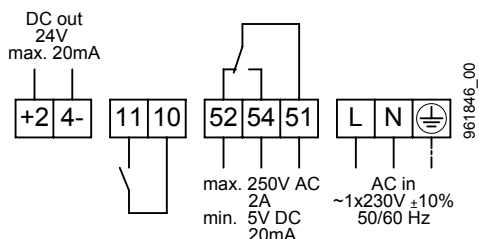
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-105 W
Rated current	0.1-0.79 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

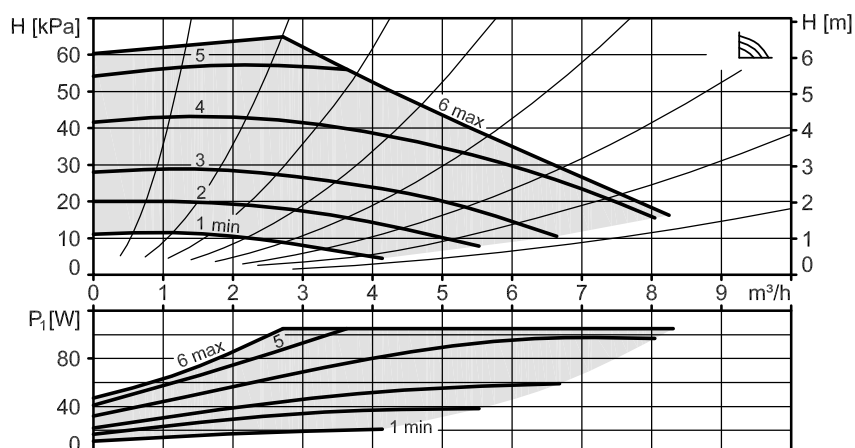
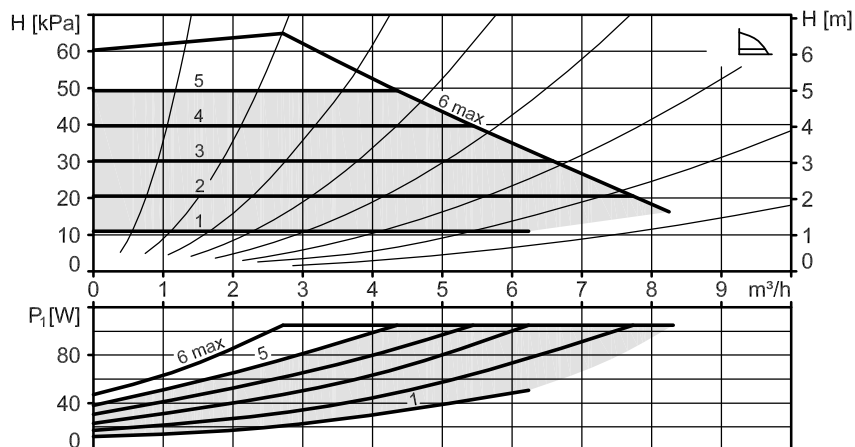
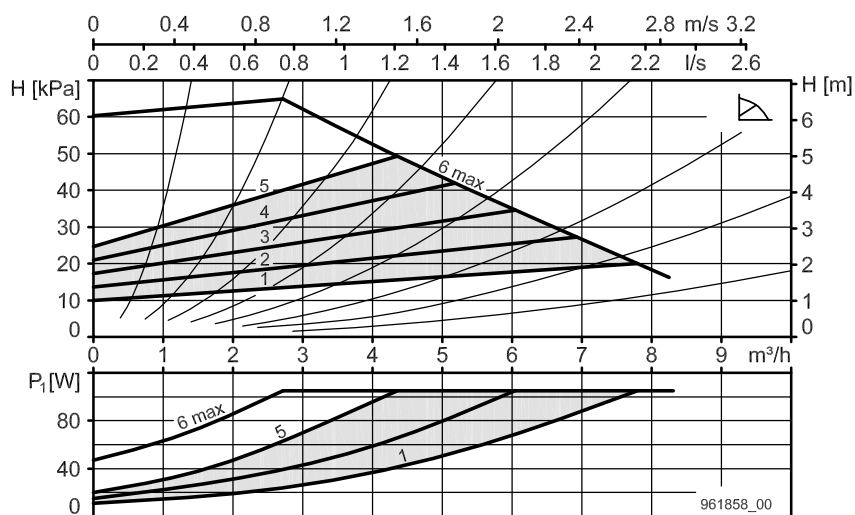
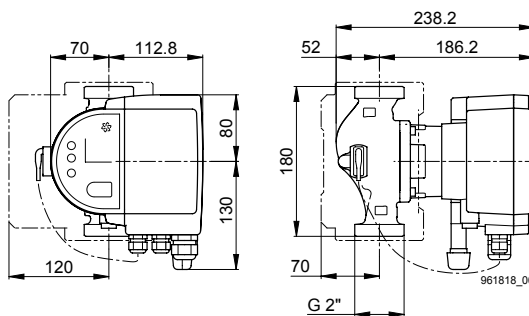
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
Modula 32-6 180 BLUE	2205140150



ModuA 32-8 180 BLUE

Nominal width	DN 32
Discharge head max.	8 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	5.0 kg

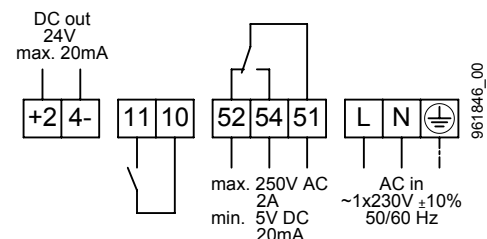
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-139 W
Rated current	0.1-1.03 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

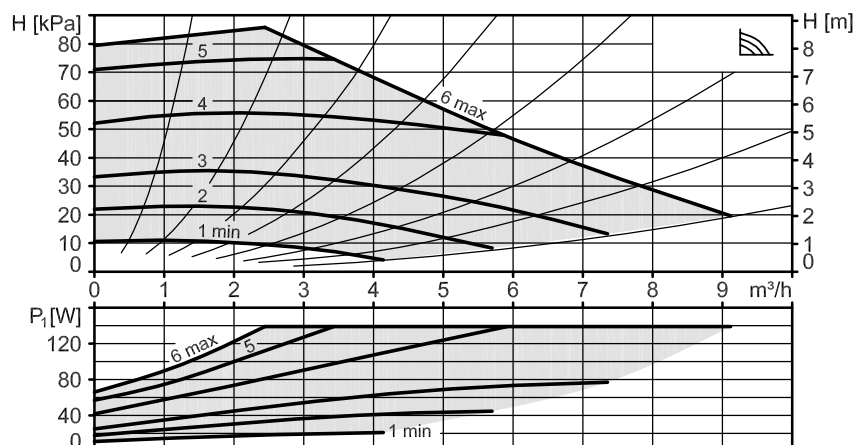
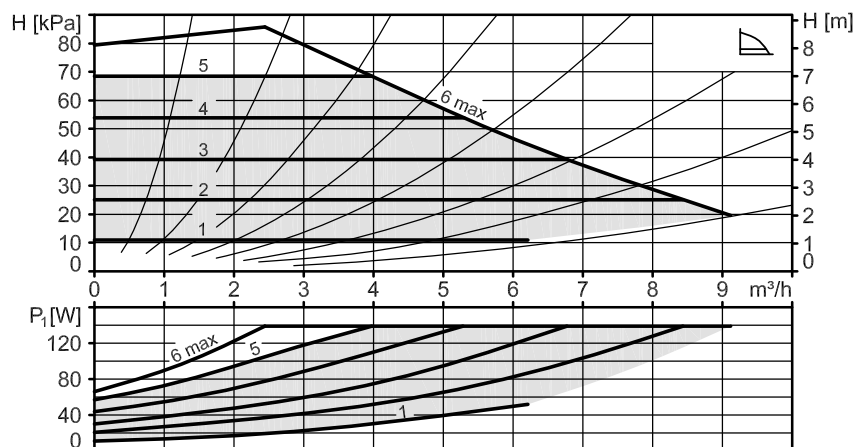
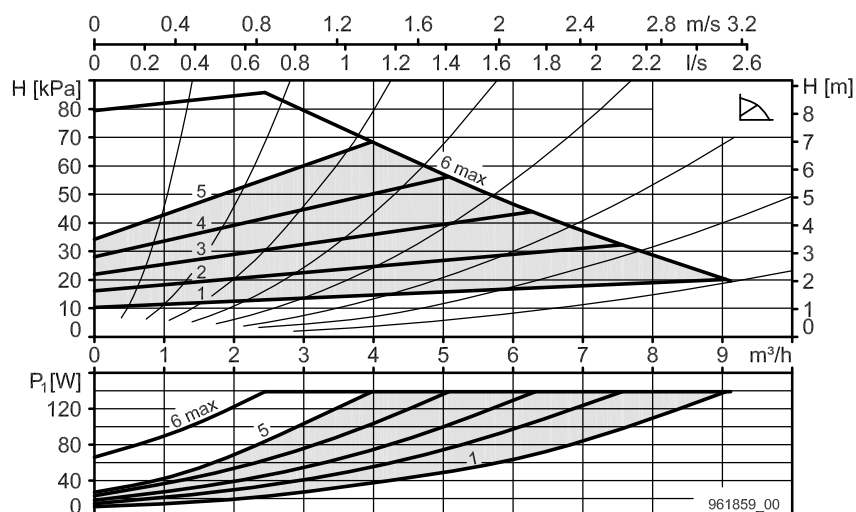
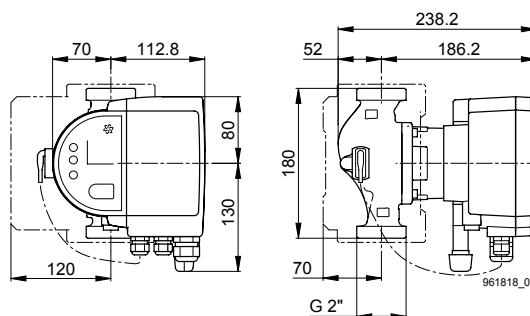
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 32-8 180 BLUE	2205150150



ModuA 32-10 180 BLUE

Nominal width	DN 32
Discharge head max.	10 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	5.0 kg

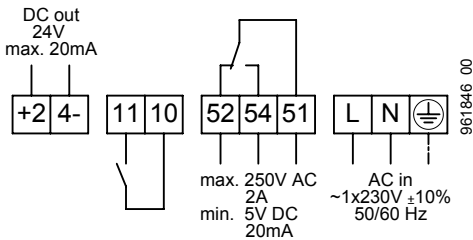
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-175 W
Rated current	0.1-1.35 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

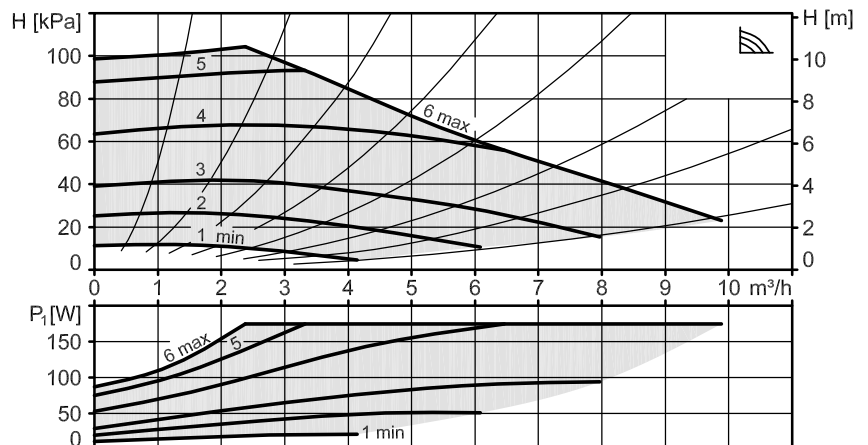
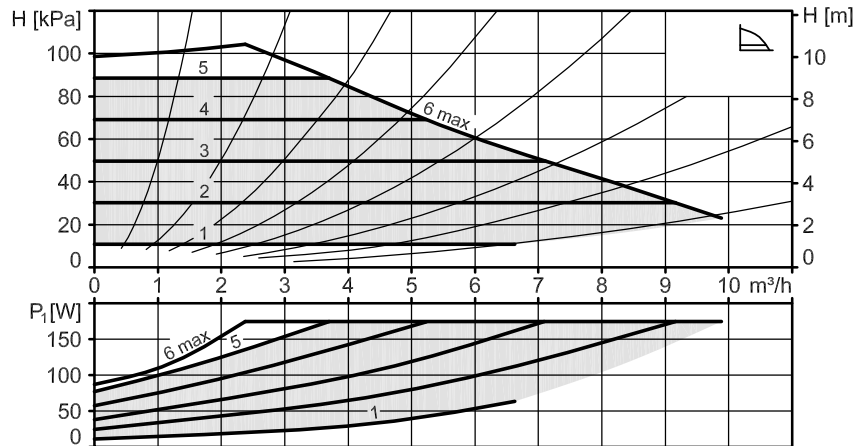
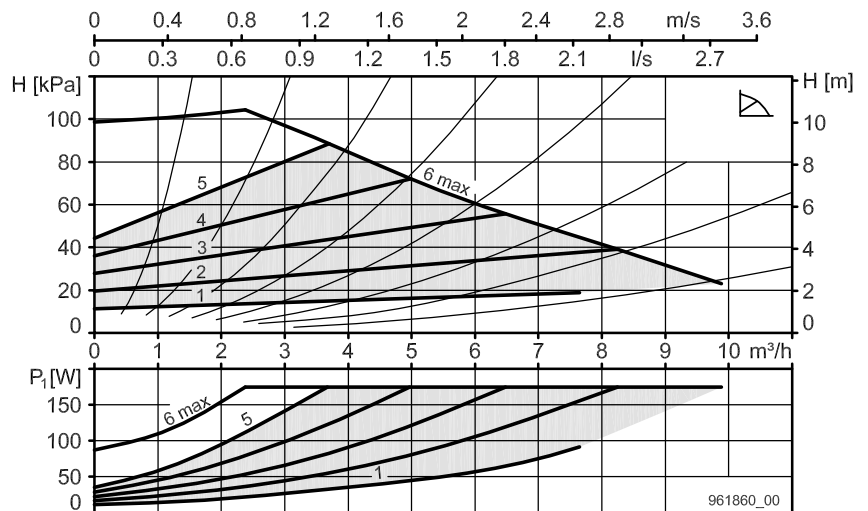
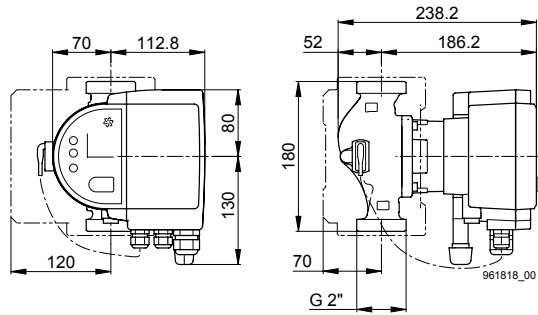
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 32-10 180 BLUE	2205160150



ModuA 32-12 180 BLUE

Nominal width	DN 32
Discharge head max.	12 m
Installation length	180 mm
Threaded connector	G 2"
Operating pressure max.	10 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	5.0 kg

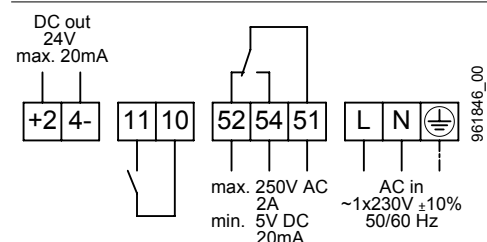
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	11-187 W
Rated current	0.1-1.45 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell

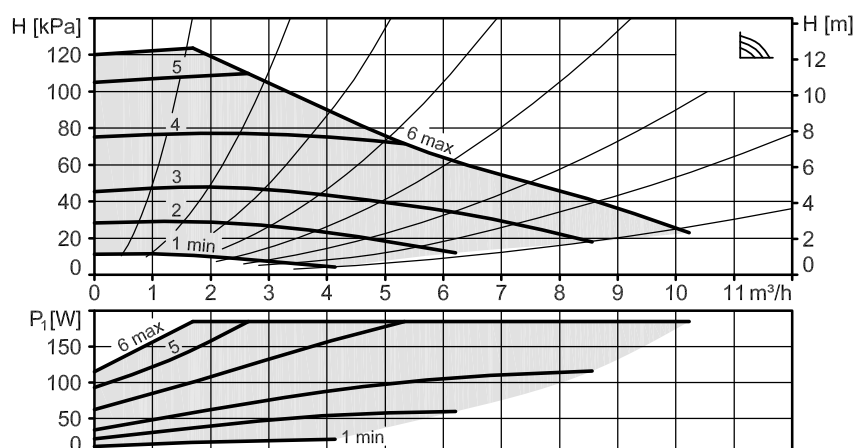
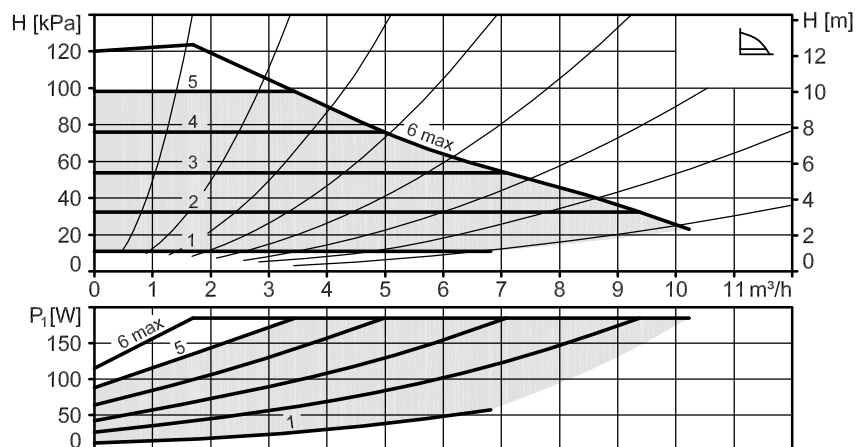
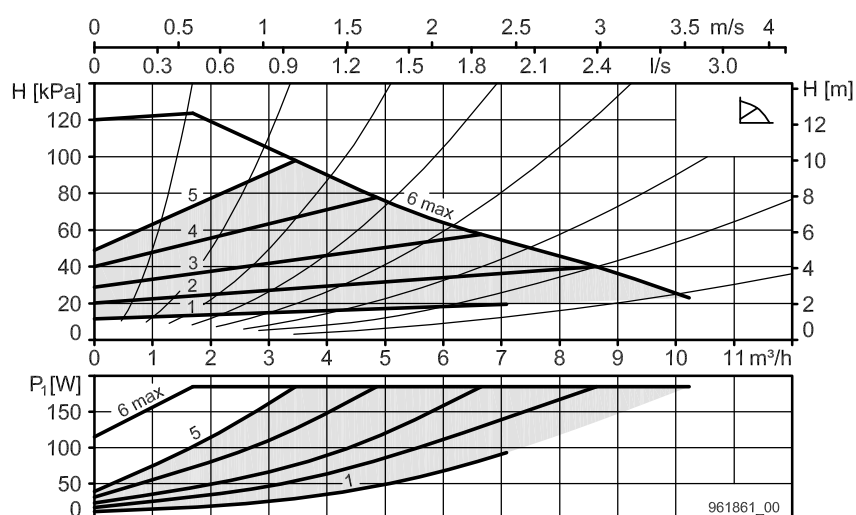
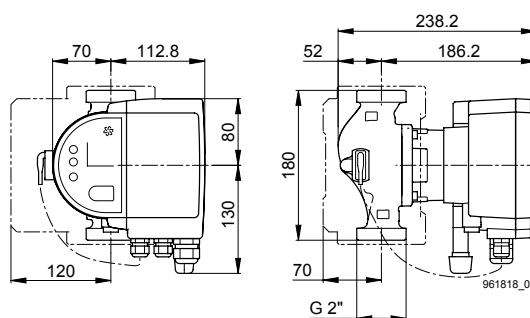
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModuA 32-12 180 BLUE	2205170150



ModulA 40-11 250 BLUE

Nominal width	DN 40
Discharge head max.	11 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	8.8 kg

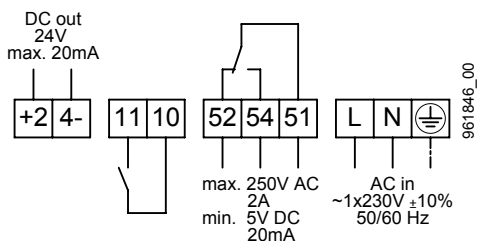
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	13-189 W
Rated current	0.11-1.52 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.27 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

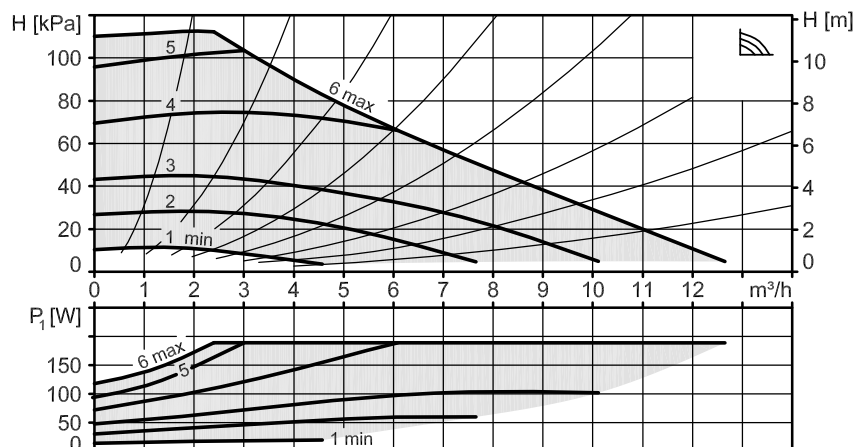
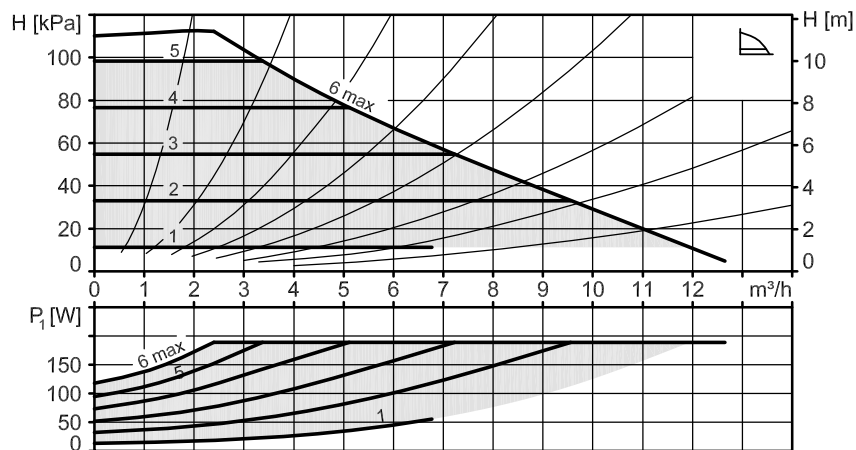
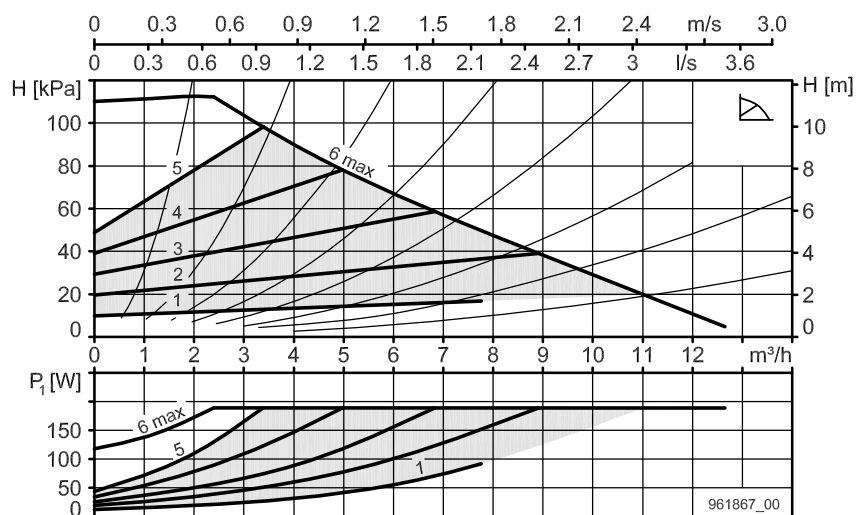
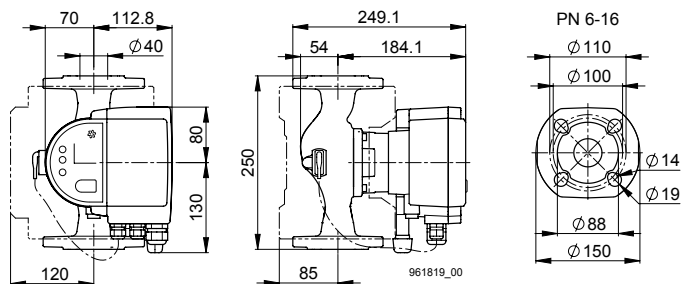
Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Comments

Pump housing: bronze

Type	Article number Biral
ModulA 40-11 250 BLUE	2205180150



ModulA 40-12 250 BLUE

Nominal width	DN 40
Discharge head max.	12 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	18.1 kg

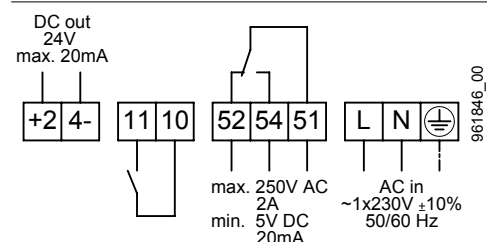
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	17-421 W
Rated current	0.18-1.91 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.32 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



+24-	24 V DC out
11, 10	External OFF or external ON
52, 54, 51	Error or operating message
L, N, PE	Power supply

Switch

- 1 Fault or operating message (switchable)
- 2 External OFF or external ON (switchable)
- 3 Power Limit (activatable)

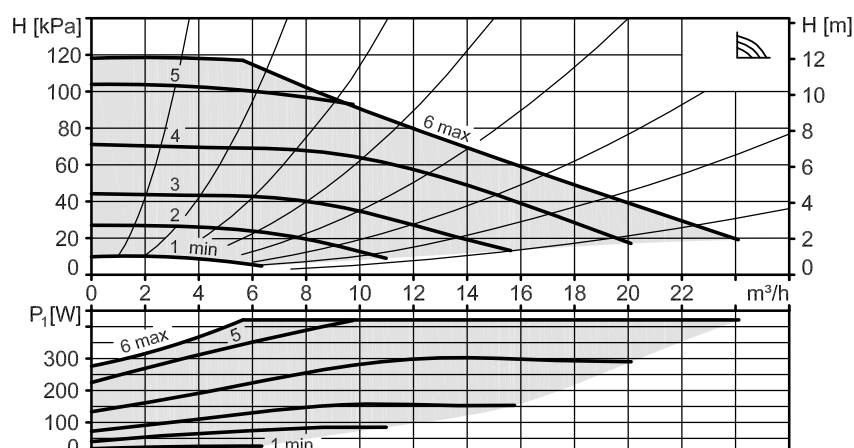
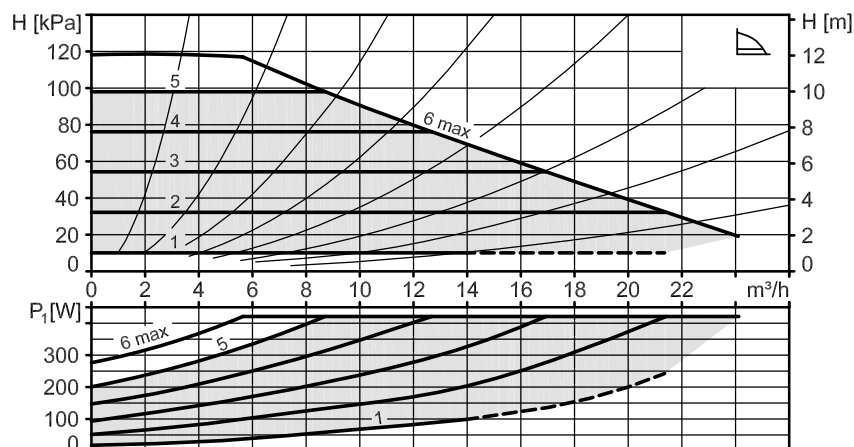
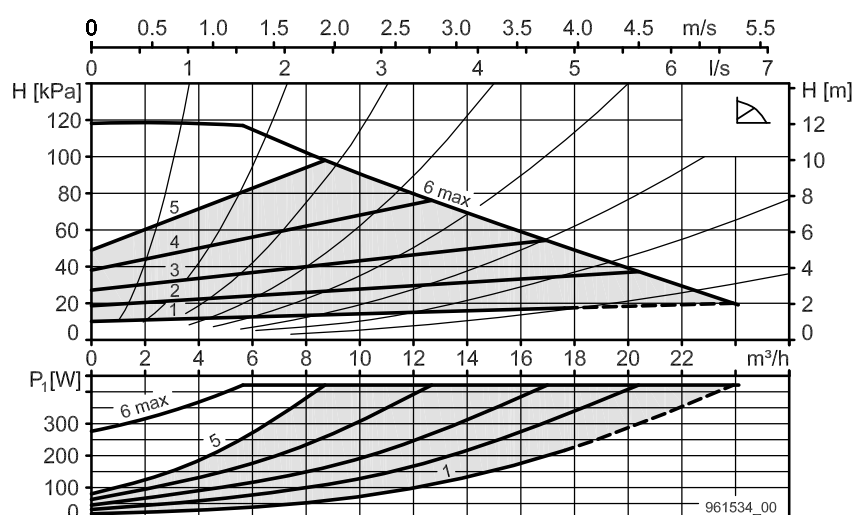
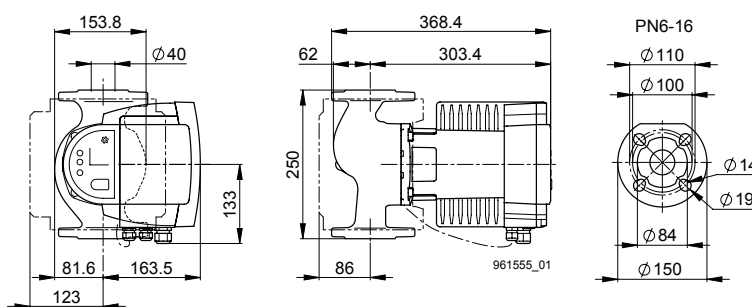
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

Type	Article number Biral
ModulA 40-12 250 BLUE	2201630150



ModulA 40-18 250 BLUE

Nominal width	DN 40
Discharge head max.	18 m
Installation length	250 mm
Flange connection	PN 6-16
Operating pressure max.	16 bar
Media temperature min.	+15°C
Media temperature max.	+85°C
Ambient temperature	0°C to 40°C
Permissible water hardness at 65°C	max. 35°fH = 20°dH
Permissible water hardness at 85°C	max. 25°fH = 14°dH
Net weight	18.1 kg

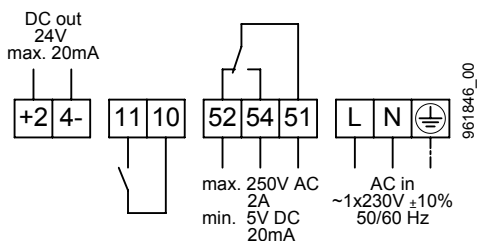
Electrical data

Voltage	1x230 V
Frequency	50/60 Hz
Power P_1	16-594 W
Rated current	0.18-2.63 A
Motor protection	integrated

Required operating pressure at 500m a.s.l.

at 75°C water temperature	0.12 bar
at 85°C water temperature	0.32 bar
for every ± 100 m altitude	± 0.01 bar

Connction diagram



- +24-** 24 V DC out
- 11, 10** External OFF or external ON
- 52, 54, 51** Error or operating message
- L, N, PE** Power supply

Switch

- 1** Fault or operating message (switchable)
- 2** External OFF or external ON (switchable)
- 3** Power Limit (activatable)

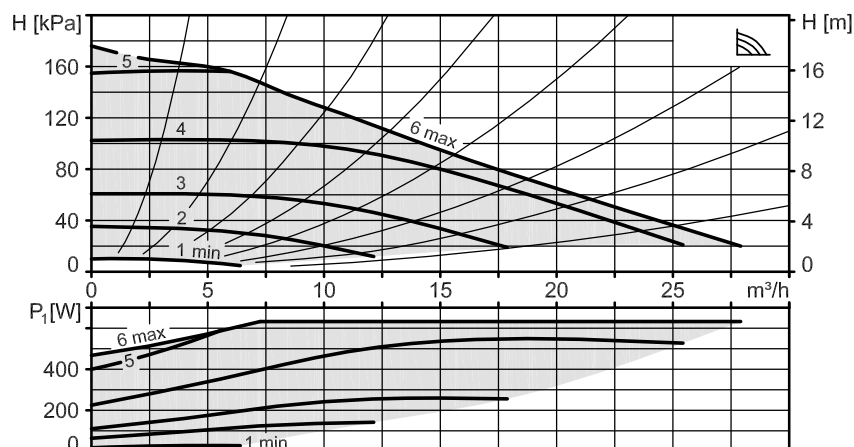
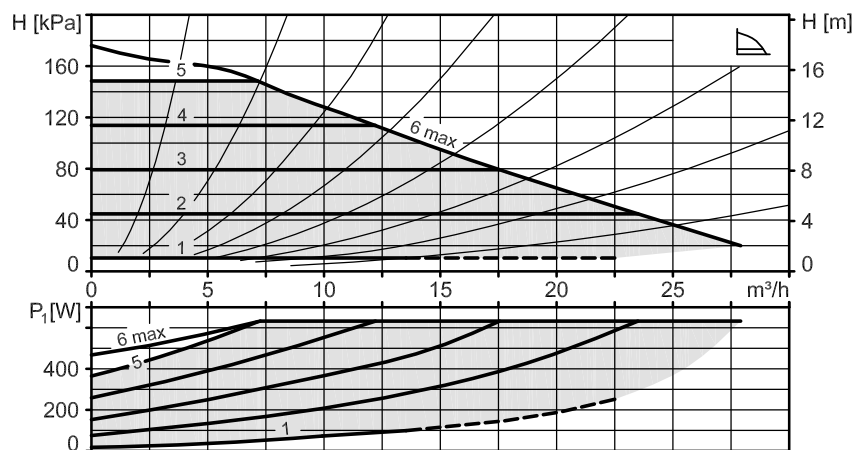
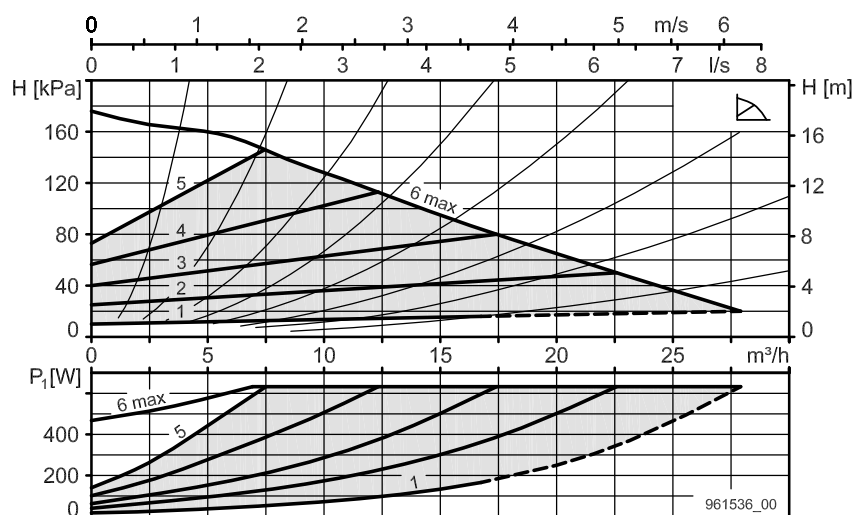
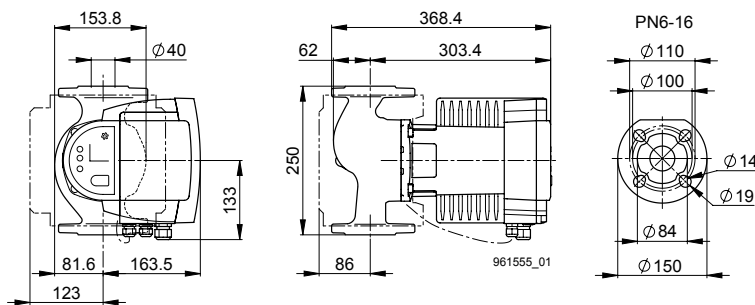
Included in the scope of delivery

- Heat insulation shell
- Sealing set for flange PN 6

Accessories

- BIM A2 Signalmodul
- BIM B3 control module
- BIM BUS-Module
- Bausatz für abgesetzte Montage der Elektronik
- Sealing set for flange PN10 / PN16
- Biral Remote Adapter

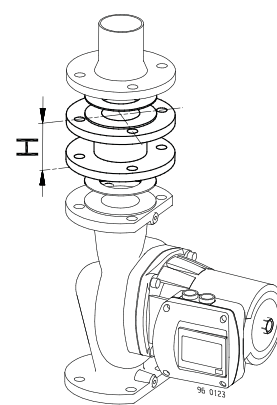
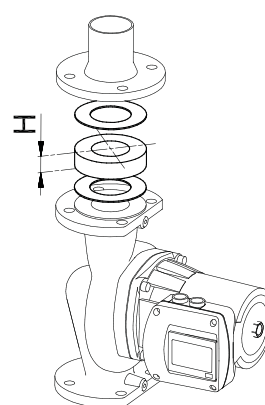
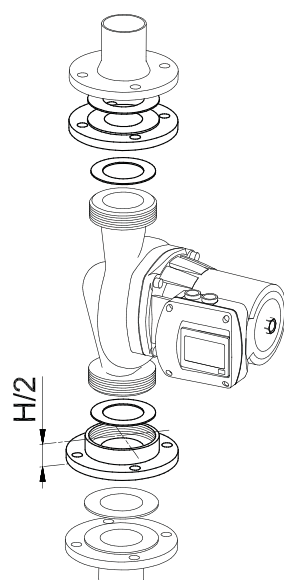
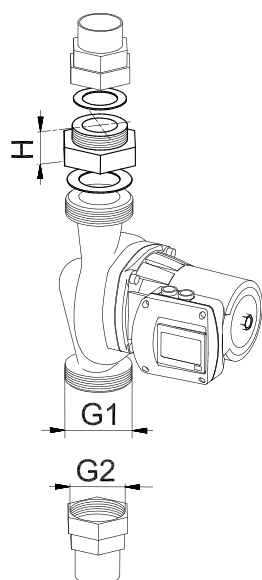
Type	Article number Biral
ModulA 40-18 250 BLUE	2201640150



Options

General

Intermediate piece / Threaded flange / Intermediate flange



Intermediate piece

The adapter kit includes an intermediate piece and gaskets.

Z	G1/G2	H	No.
10	1 1/4" / 1 1/4"	30	1129120150*
11	1 1/4" / 2"	20	1124910150*
12	1 1/2" / 2"	20	1132970150
13	2" / 2"	10	1114770150
14	2" / 2"	15	1122190150
15	2" / 2"	20	1110190150
16	2" / 2"	34	1116750150
17	2" / 2"	40	1110200150
21	2" / 2 1/4"	20	1110210150
81	1 1/4" / 2"	40	1143020162*
82	1 1/4" / 2"	60	1143060162*
83	1 1/4" / 1 1/2"	30	1143580162*
84	1 1/4" / 2"	30	1143590162*
85	1 1/4" / 1"	30	1143570150*

* CuZn39Pb3-Hart

Threaded flange (PN 6)

The adapter kit includes two flanges, gaskets and bolts.

Z	G1/DN	H	No.
25	2" / 32	40	1138190150
26	2" / 32	16	1139900150
28	2" / 32	10	1138730150
29	2" / 40	30	1139490150
31	2" / 40	40	2204420150
30	2" / 50	40	1160440150

Square screwed flange (PN 6)

Z	G1/DN	H	No.
70	2" / 32	20	1160450150

Intermediate piece

The adapter kit includes an intermediate piece, gaskets and bolts.

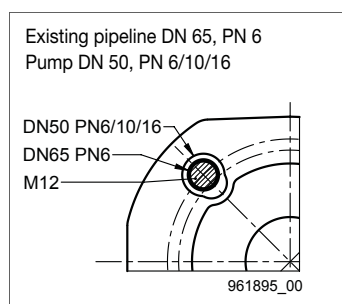
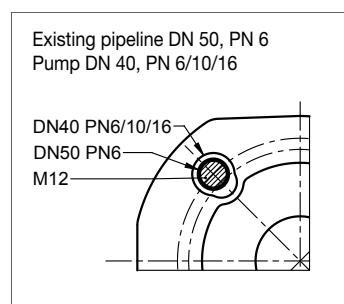
Z	DN	H	No.
32	40	10	1132590150
33	40	20	1115750150
34	40	30	1115740150
35	40	40	1115770150
36	40	50	1122180150
41	50	10	1122170150
47	50	20	1139990150
42	50	30	1109900150
43	50	50	1120580150
56	65	10	1140000150
50	65	30	1109910150
51	65	40	1122160150
59	80	10	1109920150
60	80	30	1111150150
65	100	20	1122640150
66	100	50	1115760150

Intermediate flange (PN 6)

The adapter kit includes an intermediate flange, gaskets and bolts.

Z	DN	H	No.
37	40	73	1116760150
44	50	65	1127530150
45	50	85	1116770150
46	50	135	1116770250
52	65	70	1127540150
53	65	85	1116780150
54	65	125	1127540250
55	65	155	1116780250
61	80	80	1127520150

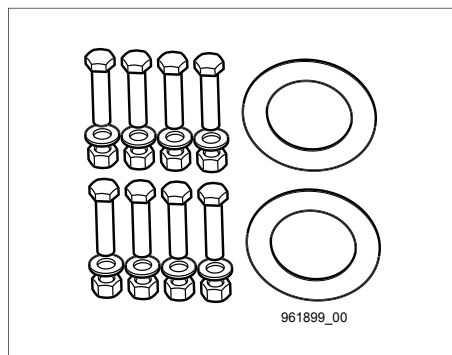
Exchange of pump for differing nominal diameter



Accessories

General

Sealing set for flange PN10 / PN16 (galvanized)



Sealing set consists of:

- seals (AFM)
- fi xing screws
- washers

Note:

DN32, DN40, DN50, DN65 PN6

DN80, DN100 PN6

DN80, DN100 PN10/16

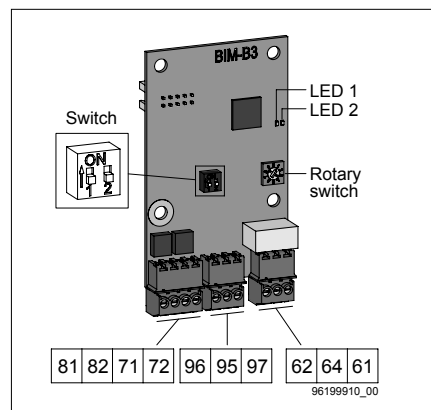
Sealing set included in scope of delivery.

Size	Article no.
DN32 PN10-16 galvanized	0015033100
DN40 PN10-16 galvanized	0015033200
DN50 PN10-16 galvanized	0015033300
DN65 PN10-16 galvanized	0015033400

Options

ModulA, ModulA-D

Biral Interface Module - BIM B3 Control module



Clips:

81	Digital input +
82	Digital input -
71	Analogue input +
72	Analogue input -
96,95,97	Biral Bus (Twin pump)
62,64,61	Operating or ready message

Switch:

1	Operating or ready message
2	Alternating operation (24/24h) or reserve operation (22/2h)

LED:

1	Status
2	Heartbeat

Options

ModulA, ModulA-D

Functions for BIM B3 control module

	Rotary switch Pos.	Profile	Diagram	Signal	Speed / Setpoint	
External speed setting		0-10 V	CS		0... 9.5 V 9.5... 10 V	$n_{min}... n_{max}$ MAX
		4-20 mA	CS		4... 19.2 mA 19.2... 20 mA	$n_{min}... n_{max}$ MAX
		PWM heating	CS		0... 10 % 10... 84 % 84... 93 % 93... 100 %	MAX $n_{max}... n_{min}$ MIN Stop (OFF)
		PWM solar	CS		0... 7 % 7... 16 % 16... 90 % 90... 100 %	Stop (OFF) MIN $n_{min}... n_{max}$ MAX
		0-10 V... OFF	CS		0... 1 V 1... 2 V 2... 9.5 V 9.5... 10 V	MIN Stop (OFF) $n_{min}... n_{max}$ MAX
		OFF... 0-10 V	CS		0... 1.5 V 1.5... 2.5 V 2.5... 9.5 V 9.5... 10 V	Stop (OFF) MIN $n_{min}... n_{max}$ MAX
External setpoint setting		OFF... 0-10 V	CP		0... 1.5 V 1.5... 2.5 V 2.5... 9.5 V 9.5... 10 V	Stop (OFF) MIN $H_{min}... H_{max}$ MAX
		OFF... 0-10 V	PP		0... 1.5 V 1.5... 2.5 V 1.5... 9.5 V 9.5... 10 V	Stop (OFF) MIN $H_{min}... H_{max}$ MAX
	Rotary switch Pos.	Profile	Description			
Self-regulating		LOCAL	PP CP CS	For self-regulating pumps, this position should be selected. For more information refer to the operating unstructions for the Biral ModulA or VariA.		
Slave		SLAVE	In Alternating or Reserve mode, this position should be selected for the reserve pump.			

Options

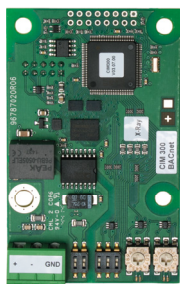
ModulA, ModulA-D

Biral Interface Module - BUS Module

BIM PROFIBUS DP (CIM 150)

Biral Interface Module used for communication with a PROFIBUS network

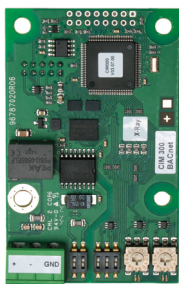
Item number
1672260000



BIM Modbus RTU (CIM 200)

Biral Interface Module used for communication with a Modbus RTU network

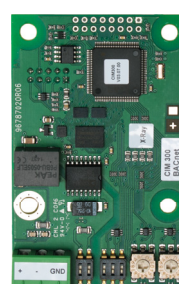
Item number
1672280000



BIM BACnet MS/TP (CIM 300)

Biral Interface Module used for communication with a BACnet MS/TP network

Item number
1672300000



Further BUS modules on request.

Biral Remote Adapter



The Biral Remote enables configuration and analysis of ModulA. Wireless communication is via a WiFi connection with ModulA, which is fitted with an interface for the Biral Remote Adapter.

The Biral Remote Adaptor is needed for wireless communication between a smartphone and the pump

Item number
1672060150

Biral Remote APP



Status

- Display of operating data
- Read out and sending of data via email

Configuration

- Settings of control type
- Setting of Power Limit
- Setting a target value
- Give the pump a clear pump number (1 to 64) to recognise the pumps connected to the bus system

Alarm

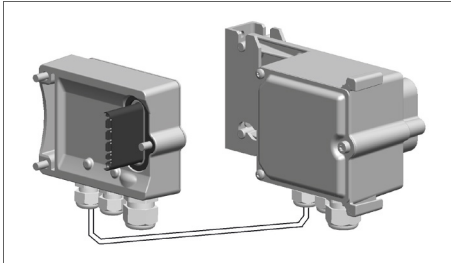
- Read out of alarm and warning messages.

The Biral Remote app can be downloaded on iTunes and PlayStore free of charge. It only works with the relevant Biral Remote Adaptor (hardware).

Options

ModulA, ModulA-D

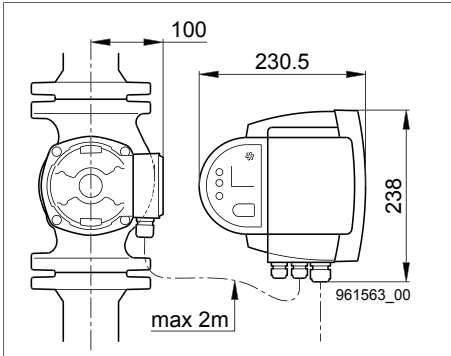
Kit for recessed installation of electronics



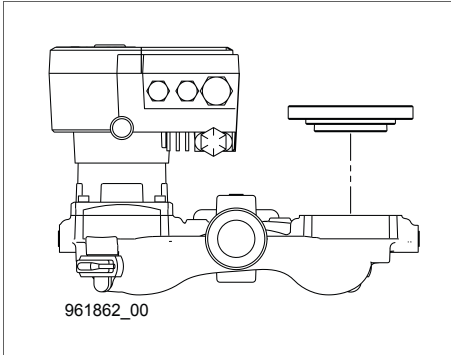
- Media temperature: up to 110 °C
- Ambient temperature: max. 40 °C
- Pump can be insulated up to 100 °C media temperature

Comment
If condensation forms (the medium temperature lower than ambient temperature), we recommend using the cold water version (GREEN) with coating resistant to condensation.

Pump type	Article no.
32F-12	
40-8, 40-10	
40-12, 40-18	
50-8, 50-12, 50-18	2200690100
65-6, 65-8, 65-12, 65-15	
80-8, 80-12	
100-12	



Blind flange



If one of the pump heads on a twin pump is removed for repair, a blind flange can be used to close the opening so that it is possible to continue using the pump with the remaining pump head.

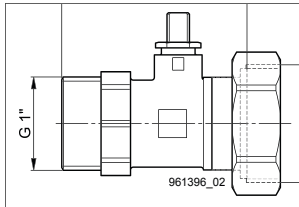
Pump type ModulA-D...	Article no.
32-6, 32-8	
32F-6	2202510150
40-4, 40-6	
32F-12	
40-8, 40-10	
40-12, 40-18	
50-8, 50-12, 50-18	2204140150
65-6, 65-8, 65-12, 65-15	
80-8, 80-12	
100-12	

Options

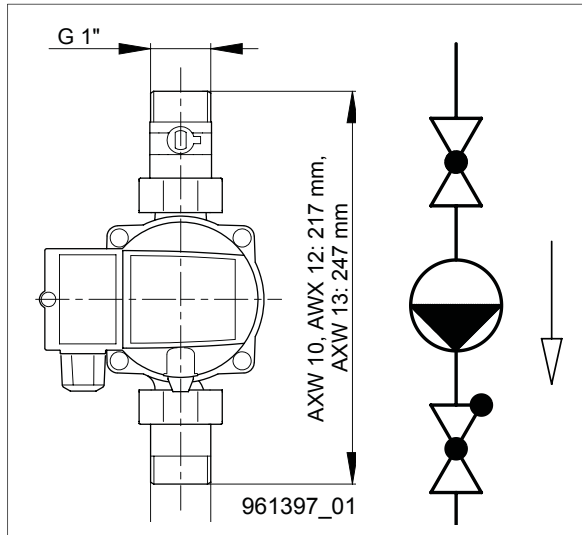
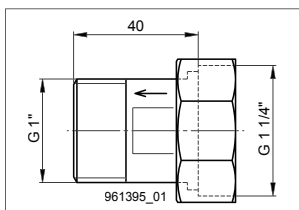
AX... BLUE

Shut-off set

Ball valve



Ball valve



Consisting of non-return valve and ball valve.

Material
brass

Non-return valve
Opening pressure: 20-35 mbar

Item number
1161910150

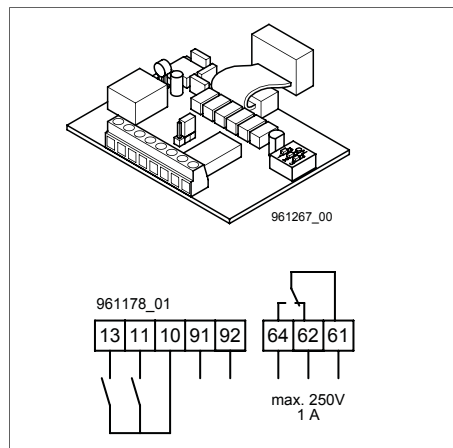
Options

A, AD, A... KW, AW

Biral Interface Module

BIM A Signal module

(for self-regulating pumps)



Connection diagram

- 10, 11** External OFF with closing contact
- 10, 11** External minimum speed with closing contact
- 61, 64** Operating or ready message (switchable) as closing contact: closes at operating/ready message
- 61, 62** Operating or ready message (switchable) as closing contact: closes at operating/ready message
- 91, 92** Twin pump function

Functions

- Operating message or ready message (switchable)
- External OFF
- External minimum speed
- Twin pump function

Comment

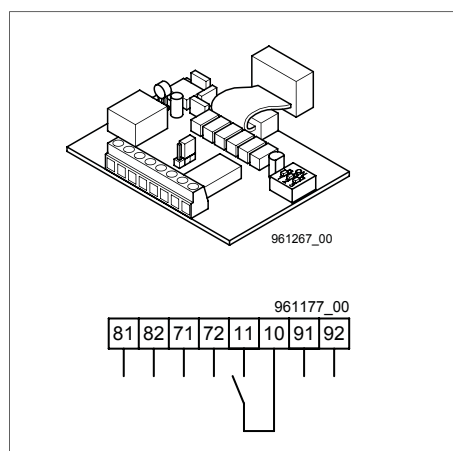
No possible in combination with control module

Item number

1671660150

BIM B control system module

(for regulated pumps)



Connection diagram

- 10, 11** External OFF with closing contact
- 81, 82** Digital input PWM profile heating
- 71, 72** Analogue input 0–10 V/0–20 mA
- 91, 92** Twin pump function

Functions

- External speed specification 0–10 V/0–20 mA
- External speed specification PWM heating profile
- External OFF
- Twin pump function

Comment

No possible in combination with signal module

Item number

1671670150



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01/19 08 0463011_06_EX_en

More than pumps

