

Stackable frame **BF10-23**

**Pump specifications:**

Type.....	BV110 D280
Max. flow .....	265 m <sup>3</sup> /hour (1166 US gpm)
Max. pressure .....	24 mwc (79 ft.)
Connections.....	DN100 (4")
Solids handling .....	80 mm (3.15")
Impeller type .....	Semi-open impeller
Priming system .....	BBA MP100
Electric motor.....	22 kW – 4 pole
Voltage .....	400/690V 50 Hz
Motor control.....	See options page 4
Frame or canopy .....	BF10-23 or L10-23
Dry weight.....	1500 kg / 1600 kg

**FEATURES**
**BV auto prime pump**

The BV range of pumps has been designed with a clear focus on reliability and durability. Featuring a 100% mechanical priming system, the BV series pumps quickly prime and re-prime, even from dry conditions. The heavy build style of both pump and frame make the BV range perfect for use in the strenuous drilling market.

**World-class performance**

The BV range is built to be deployed on the most demanding drilling and bentonite applications. Using high efficiency pumps and state-of-the-art diesel engines, the pumps offer maximum performance at minimal cost, fully in-sync with the company philosophy of "Lowest cost of ownership".

**Electric pumps in canopy**

- Extremely low noise level
- Maximum safety while running
- Better resistant to vandalism
- More space for your branding
- Optimal weather protection
- Minimal ageing, therefore stable in value

**Complete package designed & built by BBA Pumps**

- Complete in-house design & production
- Over 70 years of experience in the market
- Complete testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

**After sales service & product support**

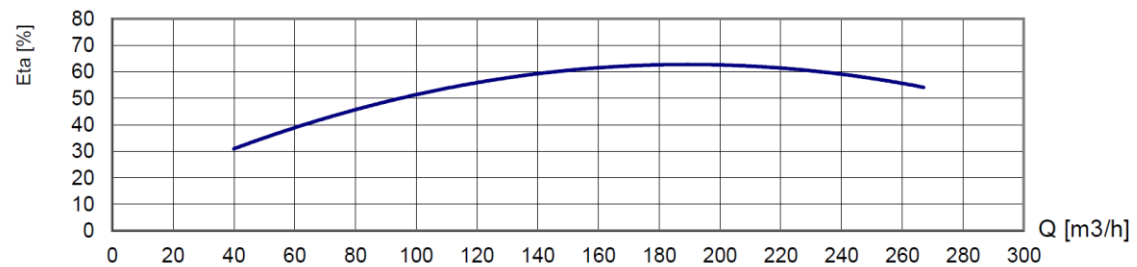
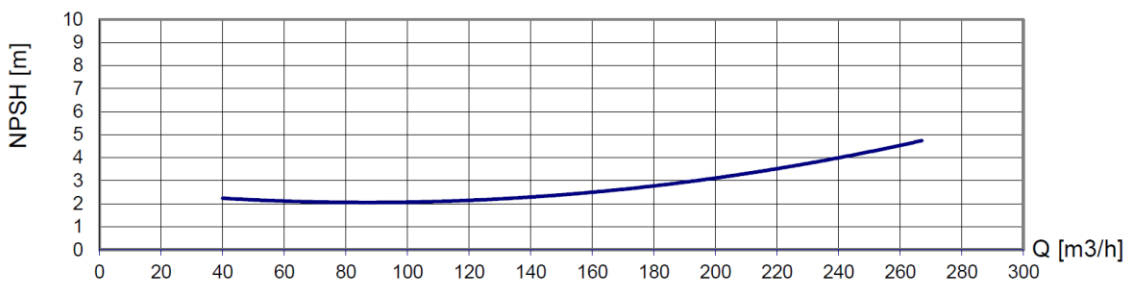
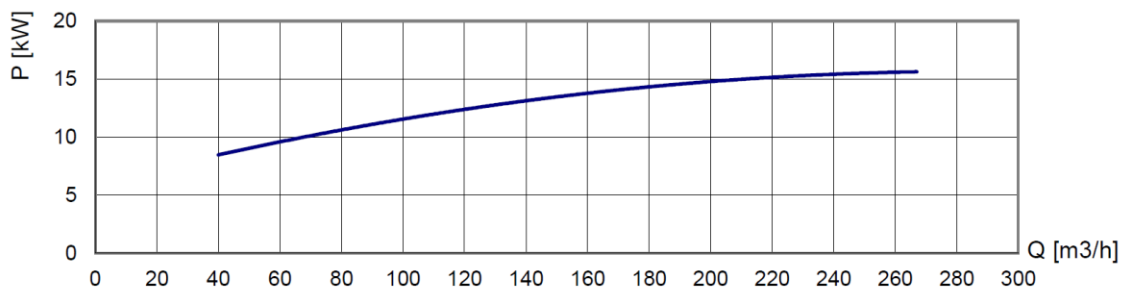
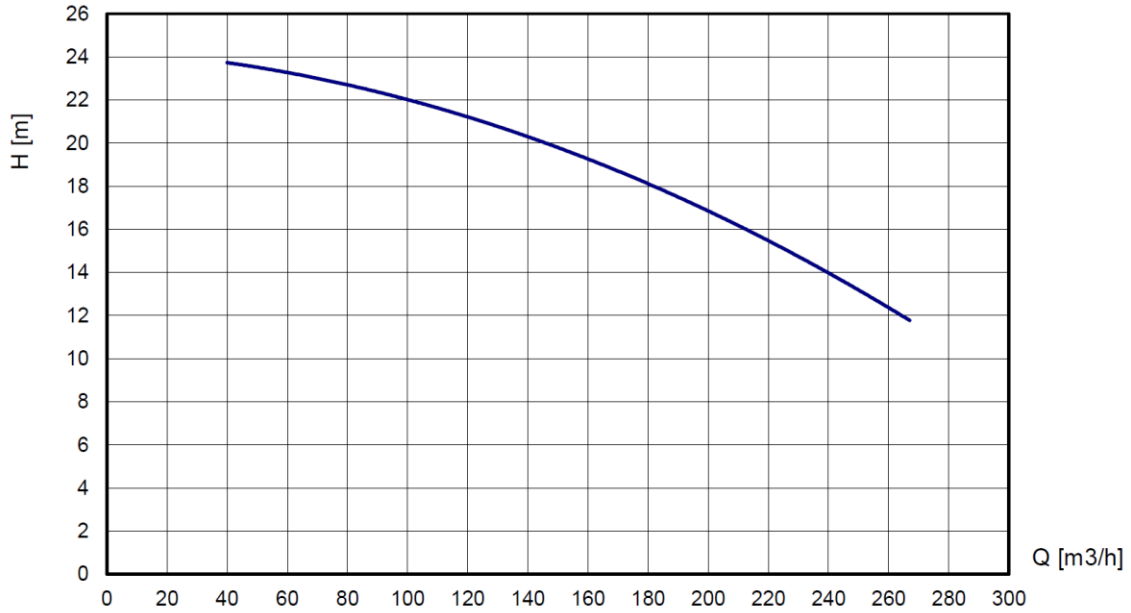
- Single supplier for parts, spares & accessories
- Dedicated customer help-desk (24h service)
- Dedicated service department in-house
- Global parts distribution network
- Optional global on-site servicing available
- Extensive training options available (technical & commercial), on-site or in-house



Canopy **L10-23**

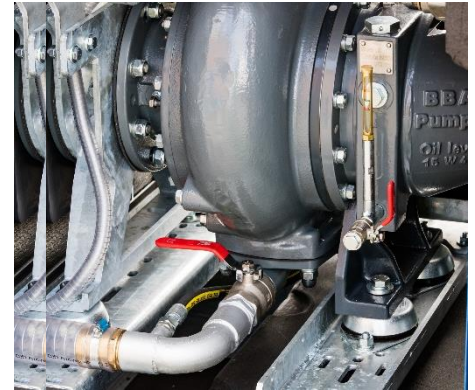
## PERFORMANCE CURVES (1475 RPM)

Continuous duty according ISO 9906 – fluid density: 998,3 kg/m<sup>3</sup>



**STANDARD TECHNICAL SPECIFICATIONS**
**BBA auto prime pump**

Pump type.....	BV110 D280
Max. flow.....	265 m <sup>3</sup> /hour (1166 US gpm)
Max. head.....	24 mwc (79 feet)
Impeller type.....	Semi-open impeller
Solids handling.....	80 mm (3.15 inch)
Pump casing.....	Cast iron GG25
Impeller.....	Chrome Moly 42CrM04
Wear plate.....	Chrome Moly 42CrM04 (adjustable from the outside)
Pump shaft.....	42CrMo4 heat treated
Shaft seal.....	Mechanical seal
Seal faces.....	Tung/Tung
Seal rubbers.....	Viton


**BBA priming system**

Pump type.....	BBA MP100 Diaphragm pump
Air handling capacity.....	100 m <sup>3</sup> /h (59 CFM)
Max. vacuum.....	8,5 m (29 inHg)
Drive.....	E-motor 400V
Float box.....	"Easy clean" hot dip galvanized
Non return valve.....	Cast iron GG25
Check valve disc.....	Buna-N

**Electric motor**

Motor type.....	HMC 180L-4
Power.....	22 kW (30 Hp)
Speed.....	1475 RPM
Voltage.....	400/690 V
Frequency.....	50 Hz
4-pole.....	1480 rpm
Protection class.....	IP55
Standard.....	IEC 60034


**BBA stackable frame or canopy**

Frame.....	Steel hot dip galvanized
Dimensions L x W x H.....	2663 x 1040 x 1404 mm
Dimensions L x W x H.....	105 x 41 x 55,3 inch
Lifting point.....	Fitted with single lifting point
Forklift pockets.....	Fitted with 2 forklift pockets
Stackable.....	Frame is stackable
Control panel.....	See options page 4

All electrical components **safe** and **dry** behind a lockable door.




### MOTOR CONTROLS (configurable)

Mobile electric pumps in stackable frames or sound attenuated canopies are equipped with a lockable compartment. This is where the electrical components – such as the motor control – are mounted safely and dry. Configure your pump unit with one of the motor controls listed below.


#### DOL

<b>Direct On Line</b>	With <b>DOL</b> delivery, the electric BBA pump unit is supplied bare without a lockable compartment or motor control. To prevent pump damage, the user must ensure a proper motor start method.
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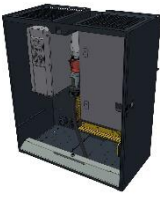
#### SD

<b>Star-Delta</b>	With <b>SD</b> delivery, the electric BBA pump unit is supplied with a star-delta switch. This is only possible for pumps with a motor power up to 30 kW and sufficient available electrical power due to peak current during start-up. (The vacuum pump always runs together with the main pump)	
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#### SS

<b>Soft Starter</b>	The <b>SS</b> package, the BBA electric pump unit is fitted with a soft starter. This motor control ensures a smooth start with constant acceleration, reduces starting current and avoids unnecessary mechanical stress on the pump. Another advantage is the linear stop, which prevents pump damage due to water hammer.	
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#### VFD

<b>Variable Frequency Drive</b>	With the <b>VFD</b> model, the electrical BBA pump unit is equipped with a Variable Frequency Drive. This allows you to regulate the water flow and pressure by adapting the motor speed. In addition to energy savings, variable frequency drives offer many features and optimum pump protection. The unit is also equipped with a more powerful motor so that the pump can run up to 60 Hz.	
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	DOL	SD	SS	VFD
Automatic level control	X	X	✓	✓
PTC thermal protection	X	X	✓	✓
Direction of rotation / phase loss protection	X	✓	✓	✓
Hour counter / malfunction lamp / switch	X	✓	✓	✓
Emergency stop according to 'SIL 2'	X	✓	✓	✓
Vacuum pump automatic on/off	X	X	✓	✓
Multilingual display	X	X	✓	✓

Discuss other specific options with your account manager or BBA Pumps distributor.



**Optional central flushing**  
The BV series is optional available with a central flushing system to keep your sludge pump in optimal condition very easily.



**Standard Cillit clear filter**  
This allows you to easily protect your vacuum pump. If the float box is dirty and therefore does not function optimally, it is immediately visible in this filter.



**Standard easy inspection**  
Oil glasses, drain valves and fill plugs are all easily accessible.



**Standard vacuum pump**  
Double diaphragm pump, water-resistant and oil-spillage free. Air capacity of 100 m<sup>3</sup>/hour.



**Standard impeller**  
Corrosion and abrasion resistant Chrome Moly (42CrM04) semi-open impeller.



**Standard inspection covers**  
Large ports for easy access to float box, impeller and non-return valve.

Pictures used are for illustration purposes only.