

## Diesel Driven Bentonite and Sludge Pump BV110 D280



### 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".

### KEY FEATURES

- Robust pump design
- Extensive flushing system
- 100 m<sup>3</sup>/h oil-spill free priming system
- Easy clean floating boxes
- Large inspection covers for easy access

### Complete package designed & built by BBA Pumps

- Complete in-house design & production
- Over 60 years of experience in the market
- Complete testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

### PUMP SPECIFICATIONS

Type	BV110 D280
Max. Flow	280 m <sup>3</sup> /hour
Max. pressure	34 mwc
Connections	4" or 6"
Solids handling	80 mm
Impeller type	Semi-open impeller
Priming system	BBA MP100
Engine	Hatz 3H50TIC
Canopy	Stage IIIB
Sound level	1750 kg (3850 lbs.)
Dry weight	1750 kg (3850 lbs.)

### After sales service & product support

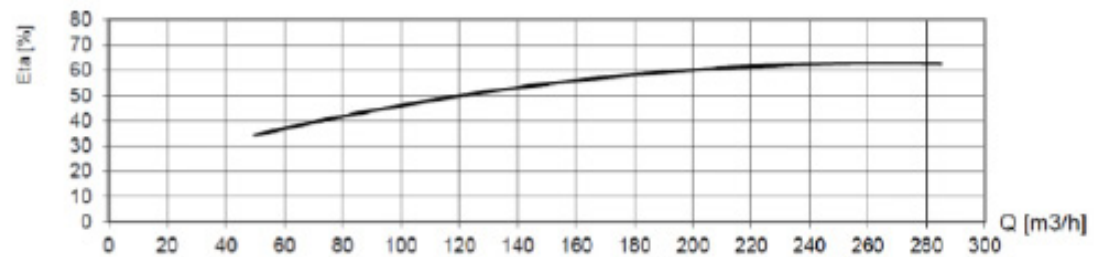
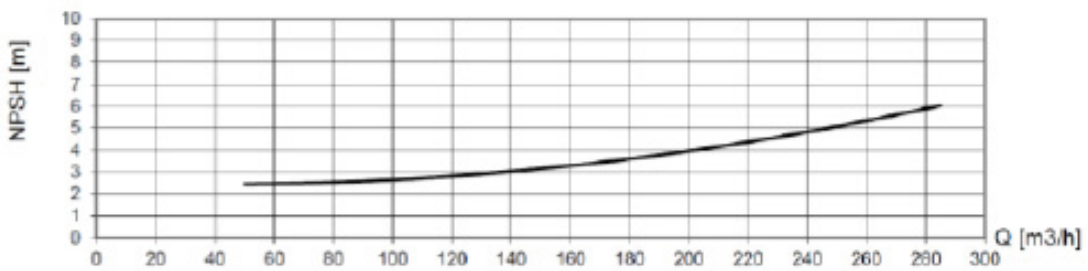
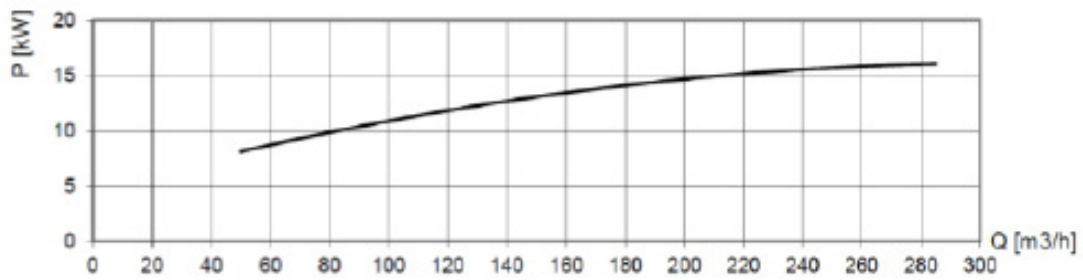
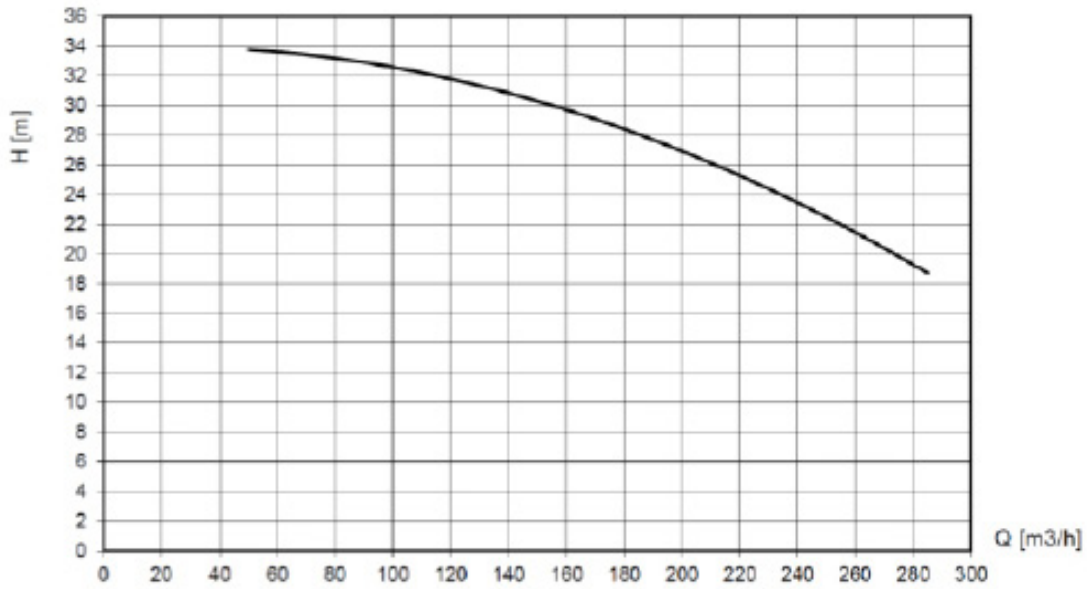
- Single supplier for parts, spares & accessories
- Dedicated customer help-desk (24h service)
- Dedicated service department in-house
- Global parts distribution network
- Optional global on-site servicing available
- Extensive training options available (technical & commercial), on-site or in-house





## Diesel Driven Bentonite and Sludge Pump BV110 D280

PERFORMANCE CURVES (1500 RPM)  
Density: 998.3 kg/m<sup>3</sup>



## Diesel Driven Bentonite and Sludge Pump BV110 D280

### STANDARD TECHNICAL SPECIFICATIONS

#### BBA auto prime pump

Pump type .....	BV110 D280
Max. flow .....	280 m <sup>3</sup> /hour (1230 US GPM)
Max. head .....	34 mwc (112 feet)
Impeller type .....	Semi-open impeller
Solids handling .....	80 mm (3.15 inch)
Pump casing .....	Cast iron GG20
Impeller .....	Chrome Moly 42CrM04
Wear plate .....	Chrome Moly 42CrM04
Pump shaft.....	C45
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 .....	Toothed belt (continuous drive)
Float boxes (2) .....	"Easy clean" hot dip galvanised
Non return valve .....	Cast iron GG25
Check valve disc .....	Buna-N

#### Engine

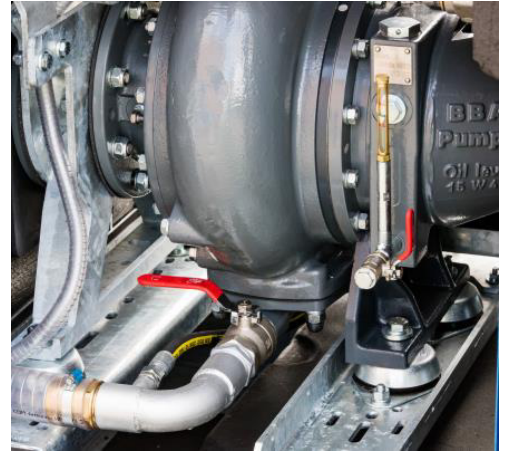
Engine brand .....	Hatz
Engine type .....	3H50TIC
Max. power IFN .....	42 kW (57 Hp)
Variable engine speed .....	1300 - 1800 RPM
Fuel consumption .....	220 g/kWh
Displacement .....	1,464 cm <sup>3</sup>
Number of cylinders .....	3
Aftertreatment .....	EGR, DOC
Emission level .....	Stage IIIB

#### BBA control panel LC30

- Auto start/stop system
  - Two float switches included (10m cable)
  - Switch Manual-0-Auto
  - RAMP-UP/DOWN function
  - Rpm. control with push buttons
  - Warning lights
  - 4.3" LCD monitor
- The LCD monitor displays additional engine data, e.g. actual engine speed, working hours, battery voltage, fuel consumption and failures in clear text (10 language support)

#### Fuel system

- Composite fuel tank 300 L (80 US Gallon)
- Fuel tank cap Ø 100 mm (4 inch)
- Electronic fuel injection system



#### Electrical system & safety features

- Nominal voltage 12 Volt
- Premium quality battery
- Low oil pressure shut down



## Diesel Driven Bentonite and Sludge Pump BV110 D280

### CANOPY M10-23X

BBA sound attenuating canopy

Canopy type..... M10-23X

Dimensions L x W x H ..... 2663 x 1050 x 1595 mm

Dimensions L x W x H ..... 104.8 x 41.3 x 62.8 inch

Basic frame ..... Hot dip galvanized

Roof panel ..... Composite roof panel

Doors ..... 5 lockable composite doors

Fuel tank ..... PE net 300 ltr (80 US Gallon)

Fuel tank autonomy ..... 60 hours (at 1800 rpm BEP)

Fuel tank cap ..... 100 mm (4 inch)

Electrical isolation ..... Battery isolator switch

Forklift pockets..... Fitted with 2 forklift pockets

Lifting point ..... Fitted with single lifting point

Stackable ..... Canopy is stackable

Exhaust system ..... Fully integrated in canopy

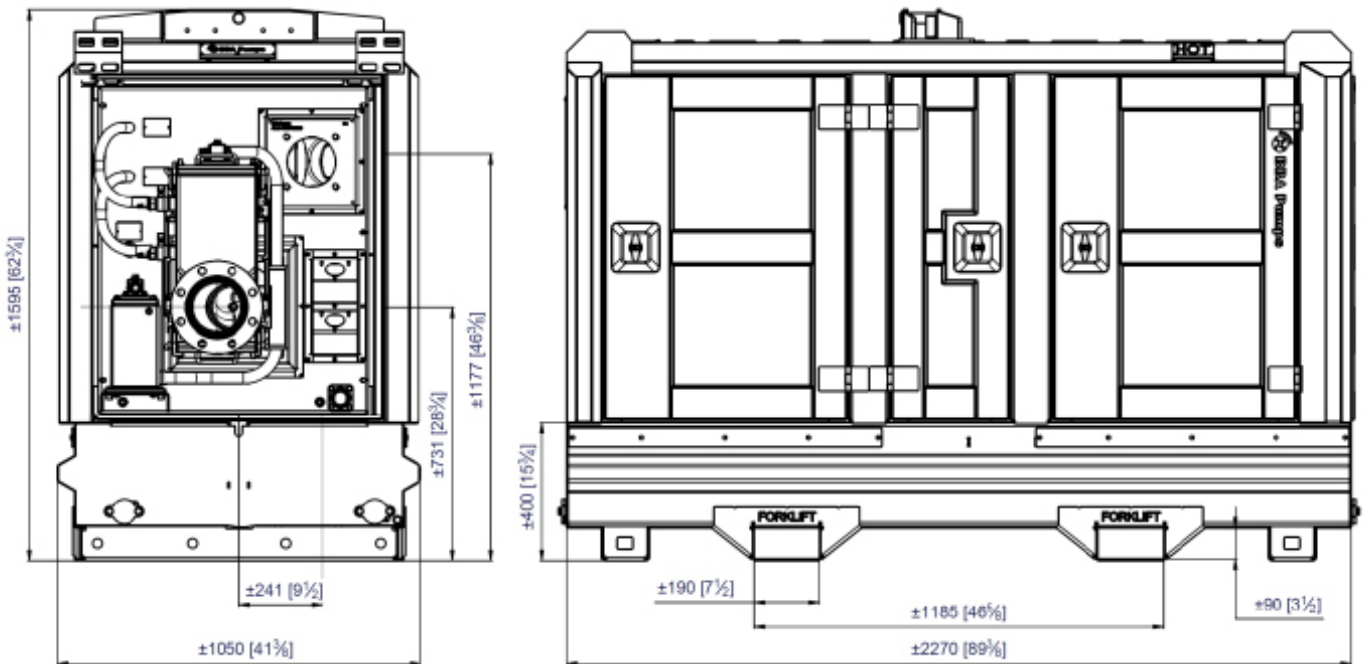
Additional ..... Fitted with oil-water separator

Connections ..... Please consult "auxiliary items" in overleaf

Documentation box ..... BBA user manual and warranty book

### BBA E-lift© system

The M10-23X canopy has been fitted with the BBA E-lift© system. By removing the roof panel, the pump and diesel engine as a whole can be removed from the canopy effortlessly allowing easy preventative maintenance on the pump and diesel engine. In addition, as the canopy is not fitted with padding or insulation materials, it can be cleaned quickly using a pressure washer.



Actual dimensions (in mm & inches) may vary depending on selected quick couplings.

## Diesel Driven Bentonite and Sludge Pump BV110 D280



**Central flushing system**  
The BV series comes standard with a central flushing system to keep your sludge pump in optimal condition.



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



**Inspection**  
Oil glasses, drain valves and fill plugs are all easily accessible.



**"Easy clean" floating boxes**  
Two fully galvanised floatingboxes with stainless steel floaters are easy to clean after the job is done.



**Large inspection covers**  
Easy access to suction spool, impeller and nonreturn valve.



**Safety**  
Extremely durable and lockable T-locks offering perfect grip.

