



## PROGRESSIVE CAVITY PUMPS (PC-PUMPS)

PC-Pumps are used by all industries worldwide. Used predominantly in applications where liquids are polluted with solids such like sands, dirt, fibers and other waste products. The pc-pump can move

20 % solids by volume abrasive sands and dirt. They are long-lasting and economic in use and easy to repair. Typical applications in different industries are:

Industry	Application
Oil & Gas	Drilling Mud, Drainage of tanks and pits, water re-injection and diluent-injection pumps, Pipeline transfer pumps, Multiphase pumps
Marine	Bilge pump, oil-water separator feed-pump, lube pumps
Pulp & Paper	Boosting of different fluids such as dye, filler material, pulp, cellulose, bleaching and starching agents, pigments, additives, glue etc. within the areas of: <ul style="list-style-type: none"> <li>■ stock preparation   ■ paper machine</li> <li>■ coating kitchen   ■ supply industries</li> </ul>
Wastewater	Boosting of sludge, feeding pump for filter presses

Furthermore there are many more applications within the following industries like Chemical & Petrochemical, biogas plant and environment, paint and galvanic.

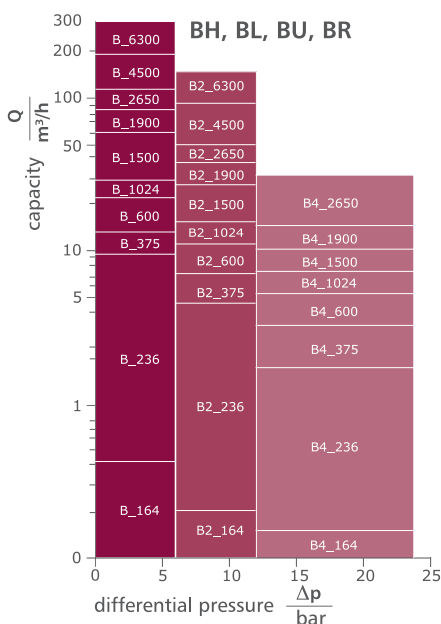
## G. Legacy NEW "B-SERIES"

Our "B-Series" is our new pc-pump series. It is designed to fit into Bornemann\* range. With identical dimensions, performance data, materials executions and various options it grants a full interchangeability. For easy reference the most important data are summarized below.

### Note:

G. Legacy progressive cavity pumps are also available as per clients specification in particular acc. to API 676 as well as multiphase pumps.

## TYPE SERIES



## PUMP DESIGNATION

B2H 1500

### Pump type

- 'L' = Block design
- 'H' = Standard design
- 'U' = Semi submersible pump
- 'R' = Pump for high amount of particles

### Number of stages

- ''' = single stage
- '2' = two stages
- '4' = four stages

### "B-Series"- progressive cavity pumps

## MATERIALS

Progressive Cavity Pumps are capable of pumping a wide range of fluids. We offer different combinations of materials to ensure product compatibility

with your process. The following list is for the most common materials. Further options are available on request.

Pump casing	GG 25 / 1.4408 / St 37 / 1.4571 / 1.4462 and comparable steels e.g. acc to ASME
Shafts	1.4021 / 1.4571 / 1.4462
Joints: Wetted parts Joint Collar	1.4301 / 1.4571 / 1.4462 ■ NBR / FPM / EPDM / CSM and others
Stators: Tubes Elastomers	St 37 / 1.4571 / 1.4462 ■ NBR / FPM / EPDM / CSM / Therban and others

## OVERVIEW OF TYPES



**BL-block-type Pump:** The compact solution in block design with directly coupled motor, the most economic option.

**Advantages:** Universal, suitable for all fluids. Due to the block design minimized investment and operational cost.



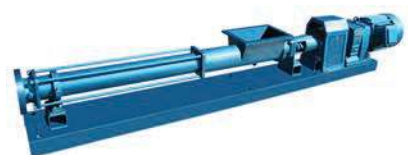
**BH-standard Pump:** The universal type can be operated with all different kinds of drivers and due to extra bearing very robust.

**Advantages:** Universal, suitable for all fluids and applications. Due to the separate bearing block also suitable for high pressure applications.



**BU-Semi-submersible Pump:** Specially designed for vertical installation with pump elements submerged in the fluid.

**Advantages:** In block and standard design suitable to drain tanks, pits, sumps and clarifiers.



**BR-Open Hopper Pump:** Design with an enlarged inlet connection and a coupling rod with auger to boost fluid with high content of solids

**Advantages:** Smooth and gentle boosting of fluids with very high viscosity or high content of solids.

## PERFORMANCE OVERVIEW (metric / imperial units)

Type	Capacity		Differential Pressure		Temperature	
	m <sup>3</sup> /h	gpm	bar	psi	°C	°F
BL	1.....85 m <sup>3</sup> /h	1.....375 gpm	up to 12 bar	up to 180 psi	up to 130 °C	up to 265 °F
BH	1... 300 m <sup>3</sup> /h	1... 1.320 gpm	up to 24 bar	up to 360 psi	up to 130 °C	up to 265 °F
BU	1....200 m <sup>3</sup> /h	1.....880 gpm	up to 24 bar	up to 360 psi	up to 130 °C	up to 265 °F
BR	1....300 m <sup>3</sup> /h	1....1.320 gpm	up to 24 bar	up to 360 psi	up to 130 °C	up to 265 °F

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