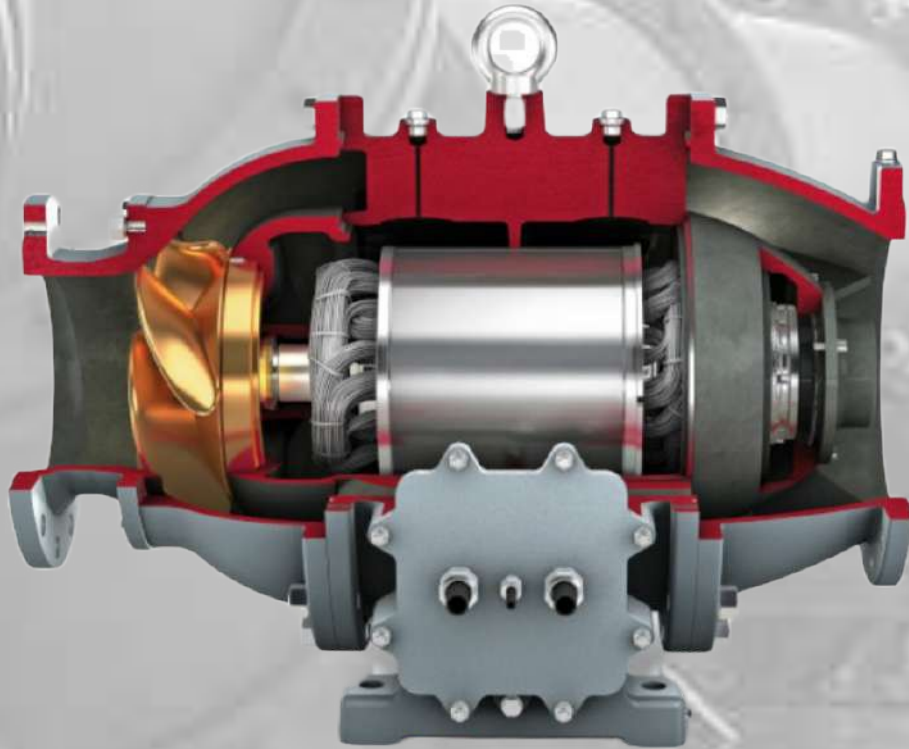




[www.BoeschPumps.com](http://www.BoeschPumps.com)

# B-PRO SERIES

INLINE AXIAL FLOW PUMP



**Boesch Pumps Inc.**

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### Inline axial flow pumps

#### Applications

Pumps are suitable for delivering of clean or slightly dirty water, sand content <50 mg/l, temperature < 25 °C.

- irrigation and draining of agriculture areas
- regulation of water levels (land reclamation pumps and dyke draining pumps)
- circulating pumps in purification plant, enhancement of oxygen in waters for breeding of fish
- dewatering of caves and security shafts
- watering and draining of sluices and floating docks
- trimming of ships and ferries

#### Design

The Boesch B-PRO propeller pumps are submersible single stage centrifugal pumps with open semi-axial impeller.

The motor is a three-phase asynchronous motor with a short circuit rotor. It is designed as a wet-running motor with a watertight insulated and rewindable winding. The electrical power feeder cable with protective conductor is direct connected. The pumps are applicable in horizontal and vertical position.

- sealing of the motor by high-duty mechanical seal
- axial and radial bearings are lubricated by the motor filling, usually water
- for permanent operation, switched operation and frequency controlled use

hydraulic performance tests for acceptance according to DIN EN ISO 9906 class 2

special designs on request

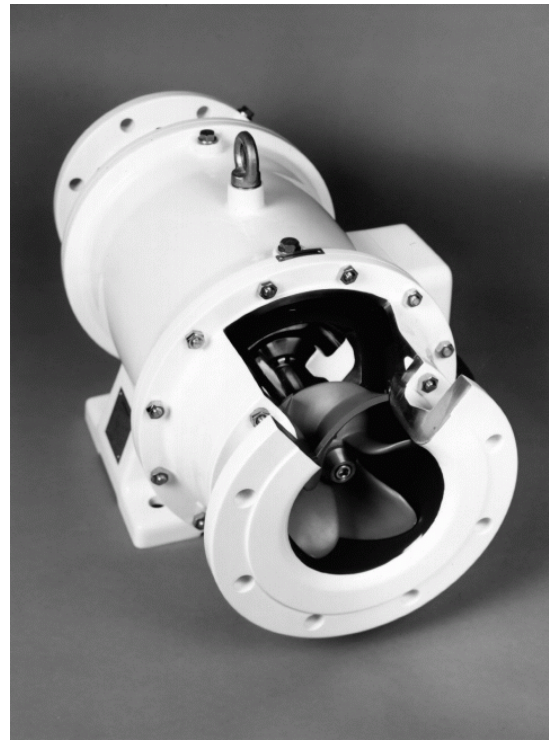
#### Installation

- horizontal or vertical installation position
- on foundation
- in-line with piping
- with automatic coupling device
- free hanging at delivery pipe
- in ducts made of concrete or steel

#### Accessories (on request)

- motor starters, autotransformer, frequency transformer
- microprocessor controlled motor monitoring
- submersible cable
- heat-shrinkable hose coupling and cast-resin connectors
- rising pipes
- adapters and reductions
- cable clips
- external float switches

#### temperature monitoring



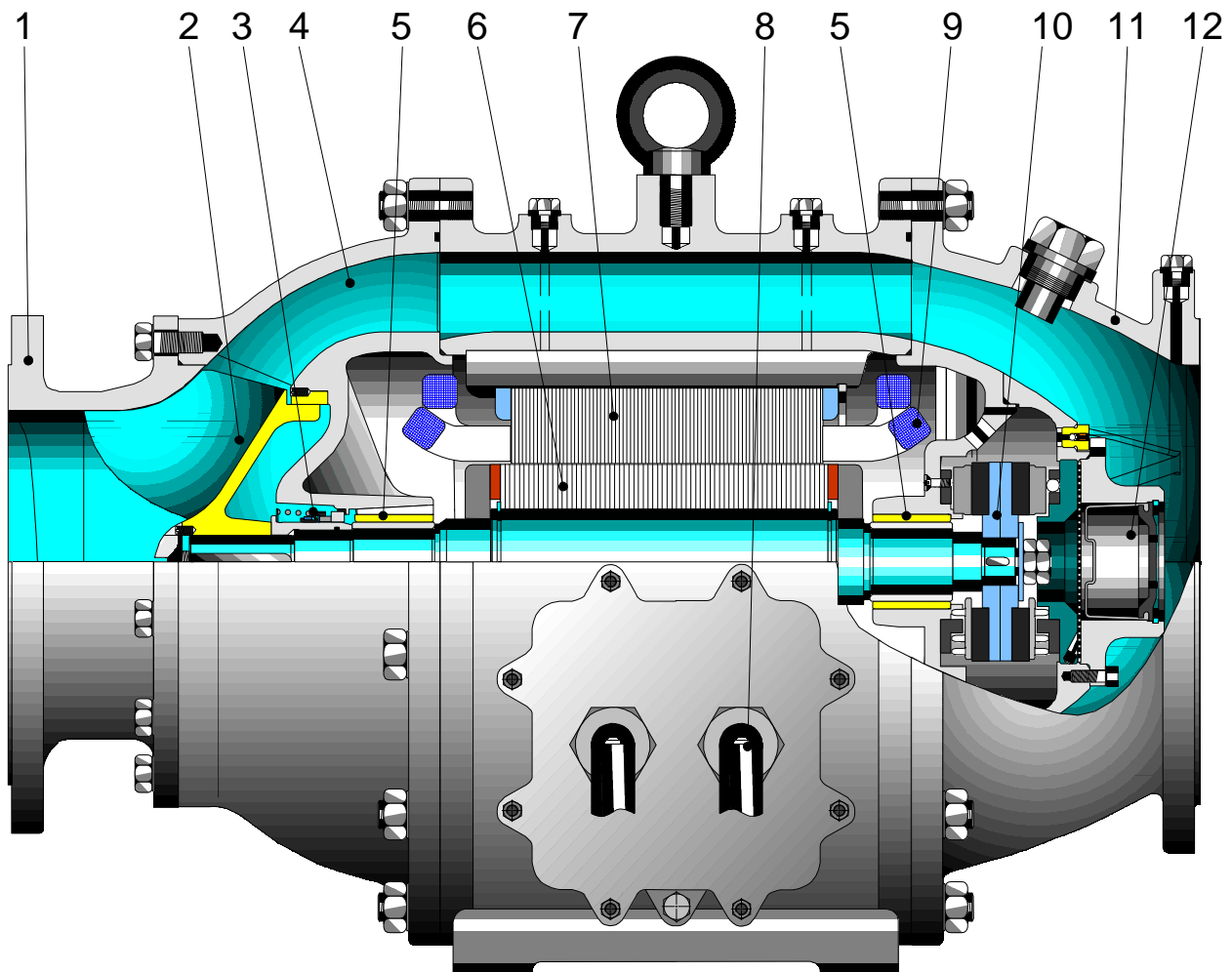
**Material of construction****Propeller pumps****According to DIN**

<b>Components</b>	<b>Design</b>	
	<b>Standard</b>	<b>Complete bronze</b>
Impeller	bronze CuSn10 / 2.1050	bronze CuSn10 / 2.1050
Casing	gray cast iron GG25 / 0.6025	bronze CuSn10 / 2.1050
Radial bearing	bronze / stainless steel	bronze / stainless steel
Shaft seal	mechanical seal SiC / SiC	mechanical seal SiC / SiC
Screws, nuts and bolts	stainless steel A2 / 1.4301 / 1.4303	stainless steel A4 / 1.4401

**According to AISI**

<b>Components</b>	<b>Design</b>	
	<b>Standard</b>	<b>Complete bronze</b>
Impeller	bronze B584 C90500	bronze B584 C90500
Casing	gray cast iron A48-40B	bronze B584 C90500
Radial bearing	bronze / stainless steel	bronze B584 C90500
Shaft seal	mechanical seal SiC / SiC	mechanical seal SiC / SiC
Screws, nuts and bolts	stainless steel A2 / AISI 304/305	stainless steel A4 / AISI 316

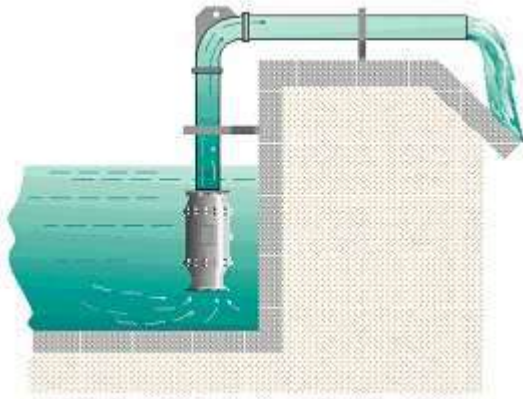
Design:



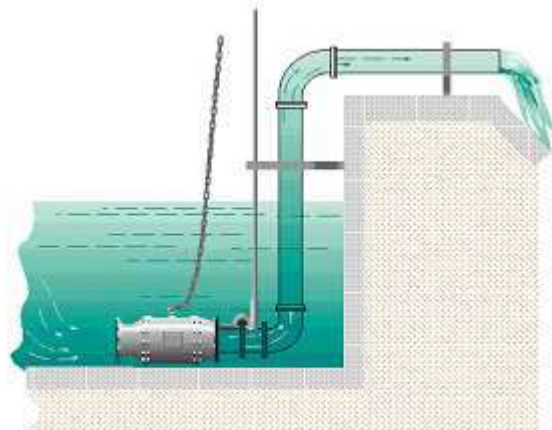
- |   |  |    |   |
|---|--|----|---|
| 1 | Suction casing                               | 7  | Stator  |
| 2 | Impeller                                     | 8  | Cable   |
| 3 | Mechanical seal                              | 9  | Rewindable stator with a watertight insulated winding |
| 4 | Diffuser                                     | 10 | 2 x thrust bearing with self-adjusting tilting pads   |
| 5 | Bearings are lubricated by the motor filling | 11 | Outlet branch   |
| 6 | Rotor  | 12 | Reliable pressure balance system                      |

### Propeller pumps

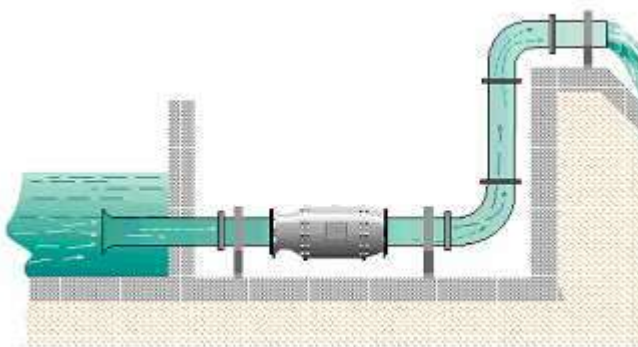
#### Types of installation



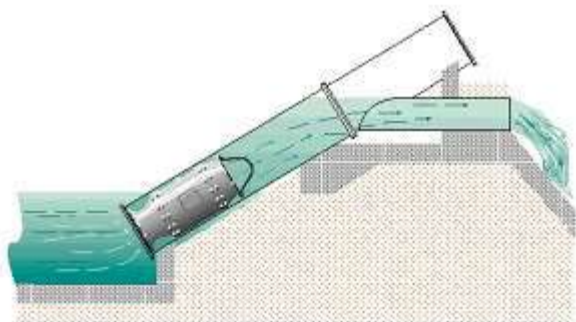
vertical, hanging at the pipe



horizontal, with automatic coupling device



horizontal, as in-line pump



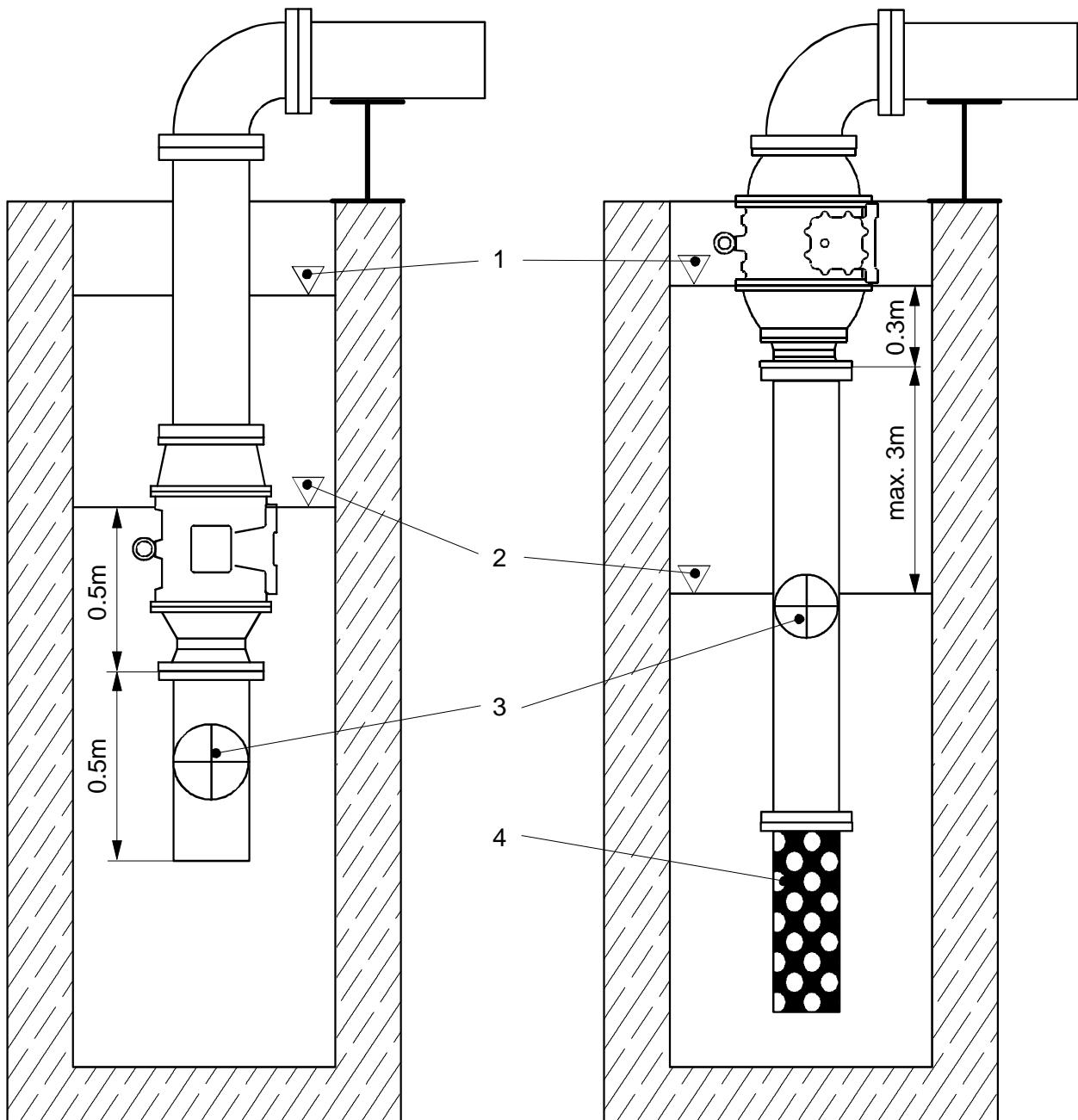
angular, in a duct

### Propeller pumps

#### Installing conditions

B-PRO200 / B-PRO250

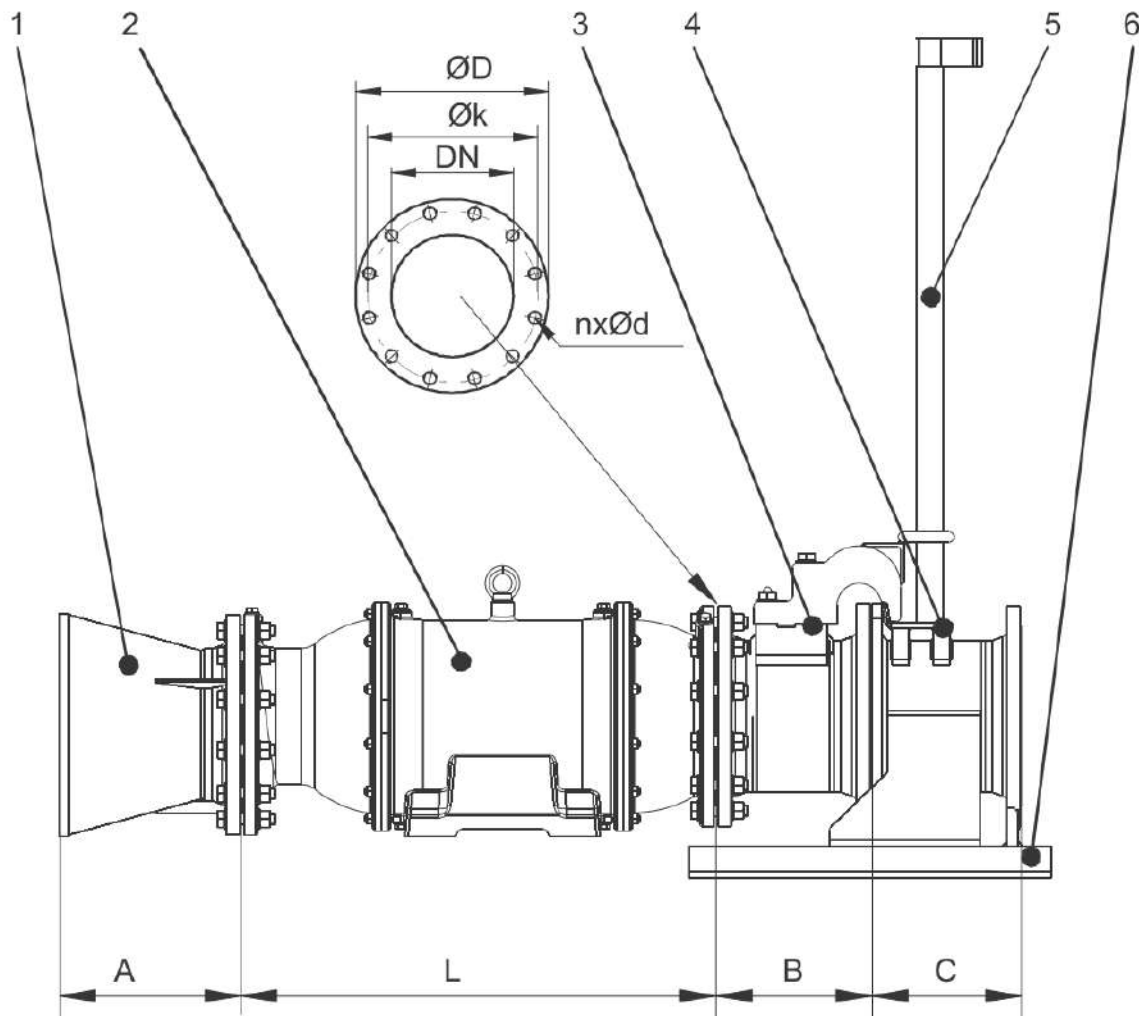
B-PRO300



- 1 Static water level
- 2 Minimum water level
- 3 Intake guiding pipe with guide cross / baffle
- 4 Inlet screen without suction valve

### Automatic coupling device

Example and dimensions:

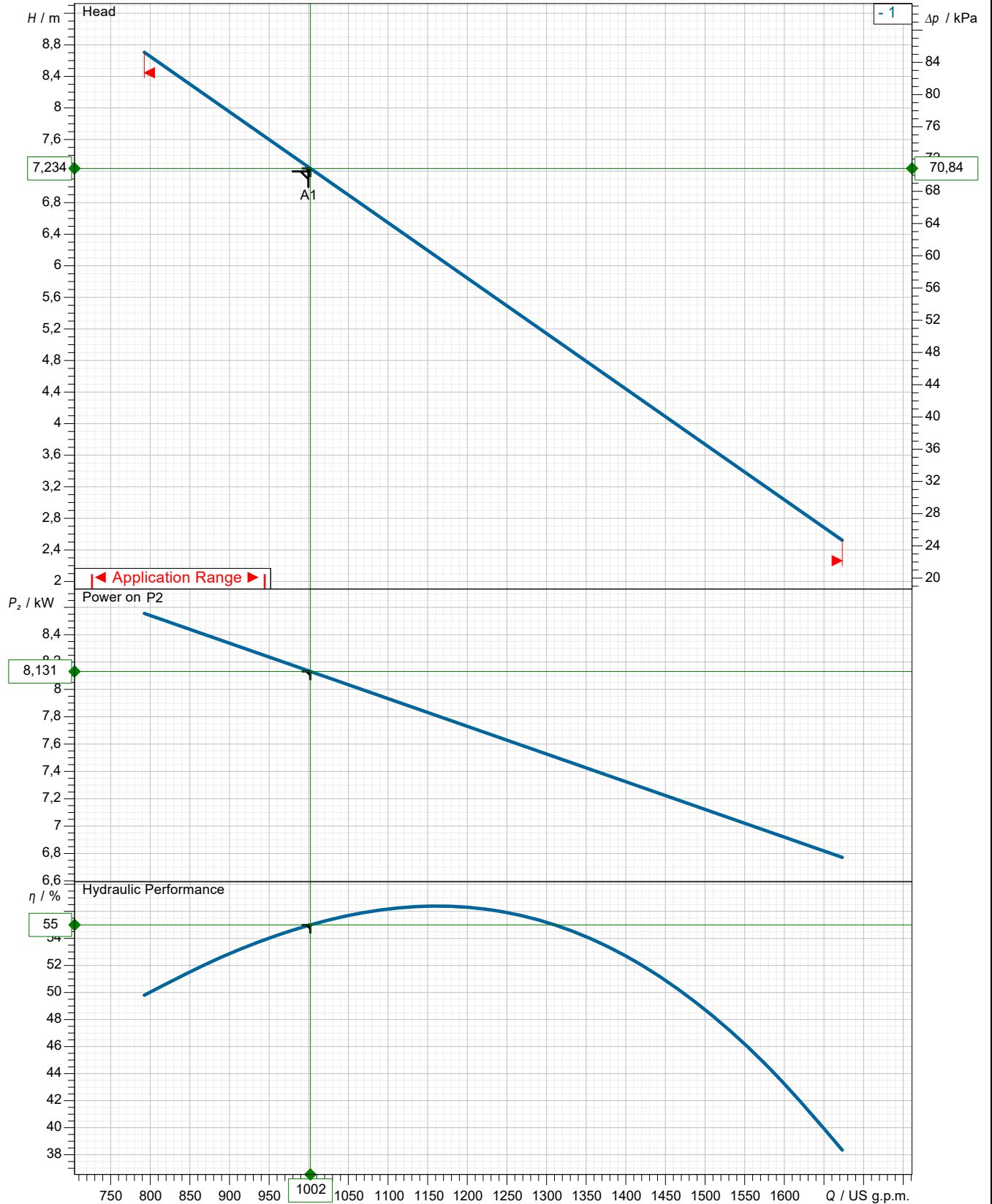


- 1 Bell-mouth
- 2 Propeller pump
- 3 Coupling connection, part 1
- 4 Coupling connection, part 2
- 5 Sliding tube system
- 6 Base plate

Dimensions [mm]	B-PRO200	B-PRO250	B-PRO300
A	ca. 320	ca. 320	ca. 320
L	758	850	910
B	280	280	280
C	270	270	270
D	340	395	445
k	295	350	400
DN	200	250	300
n	8	12	12
d	23	23	23

### CONDITIONS

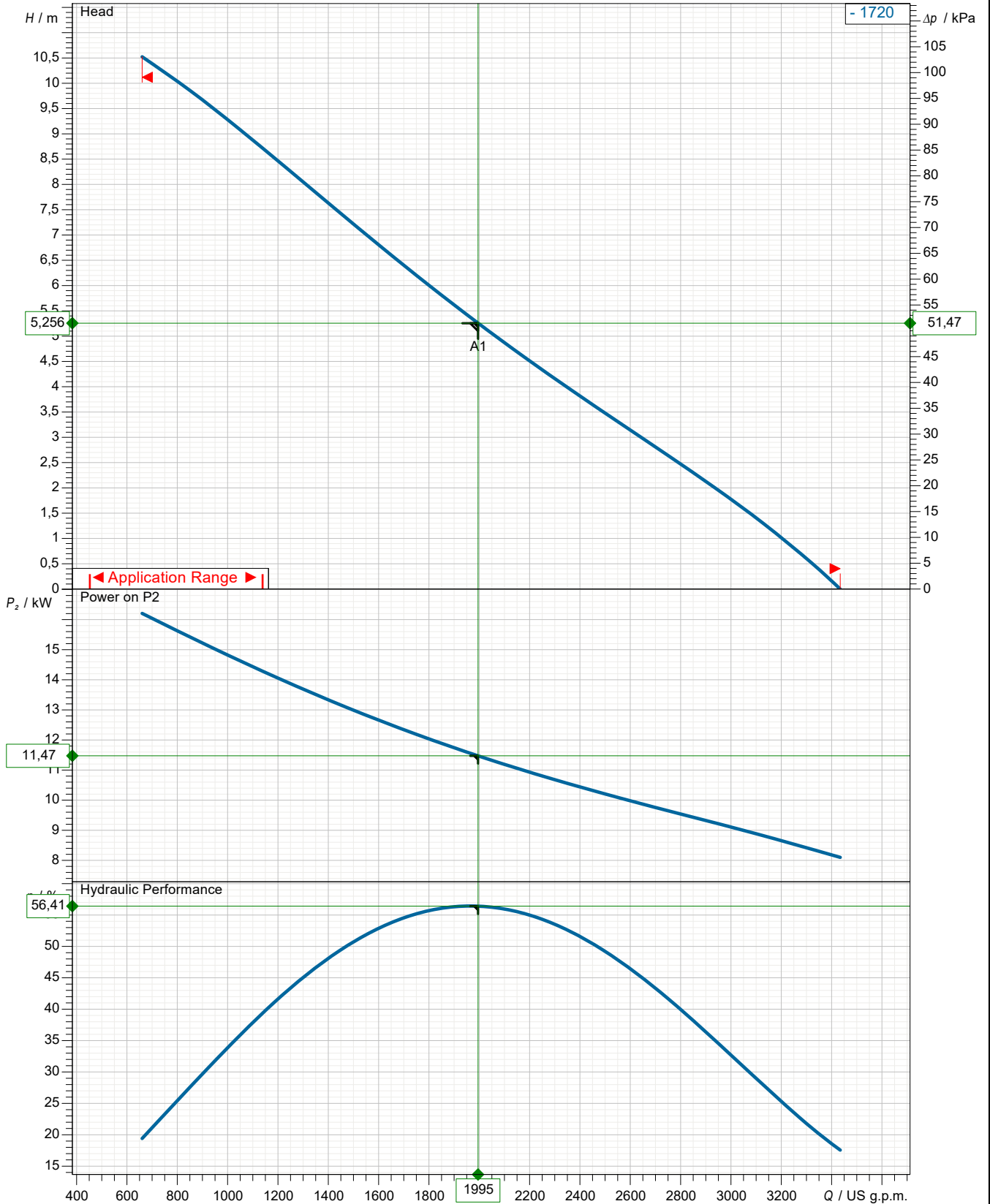
Flow	US g.p.m.	999,6	Fluid	Clean Water
Head	m	7,197	Temperature	°C 20
			Density	kg/m <sup>3</sup> 998,3





### CONDITIONS

Flow	US g.p.m.	1995	Fluid	Clean Water
Head	m	5,256	Temperature	°C 20
			Density	kg/m <sup>3</sup> 998,3



### CONDITIONS

Flow	US g.p.m.	502	Fluid	Clean Water
Head	m	30,01	Temperature	°C 20
			Density	kg/m <sup>3</sup> 998,3

