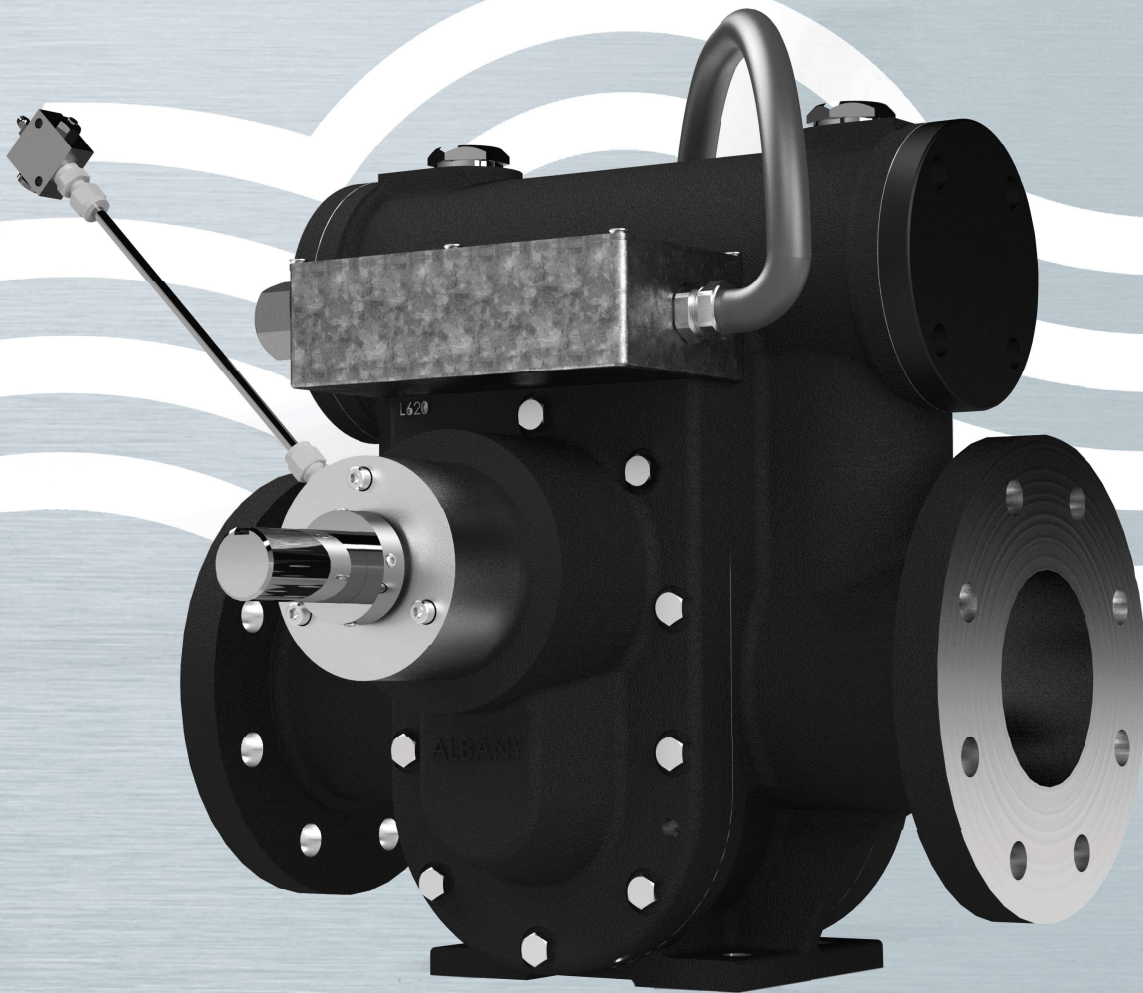


GB: Bitumen Pump



G: Gear type pump range

G: B Style:

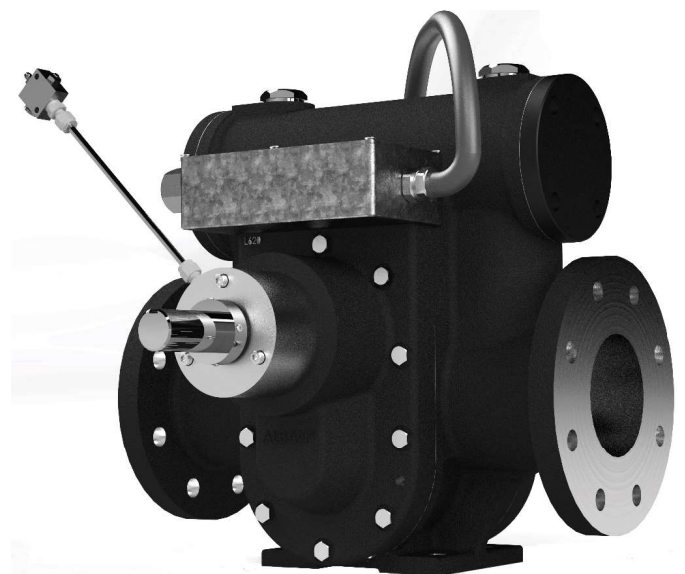


Material: **CI**

Heated and unheated pumps for bitumen and bitumen emulsions

The GB range is a heated gear pump (unheated option available) designed for pumping products that have to be heated to be pumpable. The design can incorporate heating by thermostatically controlled electricity, thermal oil or steam. Heated gear pumps are typically used for Bitumen, Crude Oil or Refined Tar among other generally viscous fluids. Our pumps are often supplied with a greaser which can be mounted remotely to allow easy greasing of the seal cartridge and giving the best possible service life.

The GB style features a seal cartridge to avoid leakage normally associated with bitumen pumps.



Albany's 24-page brochure is available as a download at www.albany-pumps.co.uk



| | | | |
|---|----------------------------------|----------------------------------|-----------------------------------|
| Maximum working pressure 12 barg | Pump size range 1/2" - 6" | Maximum temperature 220°C | Flow rate up to 1600 L/min |
|---|----------------------------------|----------------------------------|-----------------------------------|

- AL** Aluminium | **CS** Cast Steel | **CI** Cast Iron | **GM** Gunmetal | **HY** Hastelloy | **NR** Ni-resist | **NY** Nylon | **PP** Polypropylene | **SD** Super Duplex | **SS** Stainless Steel

 General and Chemical | Bitumen | Fire | Dispenser Machines | Food Industry | Lubrication | Marine | Oil & Gas | Refrigeration | Sugar

www.albany-pumps.co.uk
+44 (0) 1594 842 275
sales@albany-pumps.co.uk

Head Office and Manufacturing Centre

Albany Engineering Company Ltd
Church Road, Lydney
Gloucestershire, GL15 5EQ
United Kingdom
t: +44 (0) 1594 842 275
 Head Office Option 1
e: sales@albany-pumps.co.uk

Albany Pumps

G: B Style:



Electrically heated bitumen pumps manufactured by Albany ready for delivery to a customer.

Features

- Standard pumps are suitable for temperatures up to 220°C, and pressures up to 12 barg.
- Pump construction consists of cast iron casings and hardened steel shafts.
- As standard, Albany supply our simple leak free seal cartridge system which eliminates wasted product and has environmental benefits.
- DIN PN16 flanges as standard.

Options

- Pumps can be supplied with or without integral relief valves.
- For those that prefer, packed glands are available.
- For more than 220°C, pumps are supplied made from cast steel with special high temperature bearing material. Steel casing pumps can be supplied for lower temperatures if required.
- Alternative inlet and outlet flanges



Heating Methods

Albany pumps are of a modular design and can be supplied for:

- Oil or steam heating, or
- Electric heating using 110V or 220V cartridge heaters on single phase supply.
- Engine driven pumps can be heated by the exhaust gases. The hot gas can be passed through the pump casing or through a hot box

Sealing

Albany have developed a simple leak free cartridge system which eliminates wasted product and has environmental benefits. Correctly maintained seals have been known to exceed five years life. The system uses an extended greasing point which can be mounted outside the lagging box, making it convenient for easy maintenance.

| | | | |
|---|---------------------------|----------------------------------|-----------------------------------|
| Maximum working pressure 12 barg | Pump size range 1/2" - 6" | Maximum temperature 220°C | Flow rate up to 1600 L/min |
|---|---------------------------|----------------------------------|-----------------------------------|

Albany Pumps

G: B Style

Applications



External Pumps

Can be foot mounted with external branches or flange mounted with vertical branches as shown for self draining and fast heating.



Submerged Pumps

We supply vertical immersed pumps with tank-top discharge for horizontal tanks, GS style

Refinery Service API 676 Pumps

We supply steam or oil heated gear and twin-screw pumps for duties up to 400m³/hr depending on viscosity and pressure. Seals with a steam quench and water cooled bearings can be supplied depending on the service temperature. We have steel cased pumps in service for up to 280°C temperatures.

Filled Bitumen

Pumps with fully hardened internal faces and contact parts along with special internal bearings are an economical choice on certain applications with filled bitumens. These applications can necessitate the use of bitumen with up to 75% limestone powder content. Carpet backing and clay targets are some examples.



| | | | |
|---|---------------------------|----------------------------------|-----------------------------------|
| Maximum working pressure 12 barg | Pump size range 1/2" - 6" | Maximum temperature 220°C | Flow rate up to 1600 L/min |
|---|---------------------------|----------------------------------|-----------------------------------|

The seal and Eezi greaser for bitumen pumps



A reliable solution for bitumen glands

Packed glands are designed to weep to provide cooling and lubrication. After time and perhaps cold starts they may leak.

Albany have developed a Bitumen seal cartridge which really works to stop bitumen leaks. More robust than a mechanical seal, more effective and longer lasting than packed glands. We now fit our Eezi grease lubricator which will be outside your insulation.

The new kit comprises:

- a seal cartridge with hard shaft sleeve
- a greaser and relief valve located above your lagging

The Eezi grease lubricator is available on new pumps or as a retrofit to most existing pumps.



Please note: when being retro-fitted, depending on the age and condition of the pump, the drive shaft and other components may need to be replaced.

WARNING

No cold starts: minimum temperature 120°C Lubricate weekly and then the seals can last several years.

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G: Gear type pump range

Gear Pumps for Bitumen, tar, pitch and asphalt

- Up to 1600 L/min
- Sizes 1/2" to 6"
- Six sizes with optional relief valve
- Configurable range of vertically mounted pumps
- Pumps supplied for vertical pipelines
- Vertically immersed pumps are supplied for bitumen storage tanks up to three metres.

Capacity Table. kW stated are at 3 bar and 120-180 °C

| Pump Frame Size | Flow In | kW | Flow In | kW | Pump Branch Size |
|-----------------|----------------|------|---------|-----|-----------------------|
| | l/m | | l/m | | |
| | at 720 rev/min | | rev/min | | |
| AP100 | 136 | 3 | 187 | 4 | 1 1/2" |
| HD030 | 197 | 4 | 255 | 5.5 | 1 1/2" |
| HD040 | 276 | 5.5 | 340 | 5.5 | 2" |
| HD050 | 349 | 7.5 | 470 | 7.5 | 2 1/2" |
| HD060 | 472 | 7.5 | 630 | 11 | 3" |
| HD070 | 581 | 11 | 700 | 11 | 3" |
| HD080 | 717 | 11 | 950 | 15 | 4" |
| HD100 | 948 | 18.5 | 1300 | 22 | 4" |
| HD110 | 1200 | 22 | 1600 | 30 | 6" inlet 4" outlet |

Capacities up to 300 m³/hr are available with our twin screw pump range



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