

**G: Gear type pump range**

**G: B Style:**

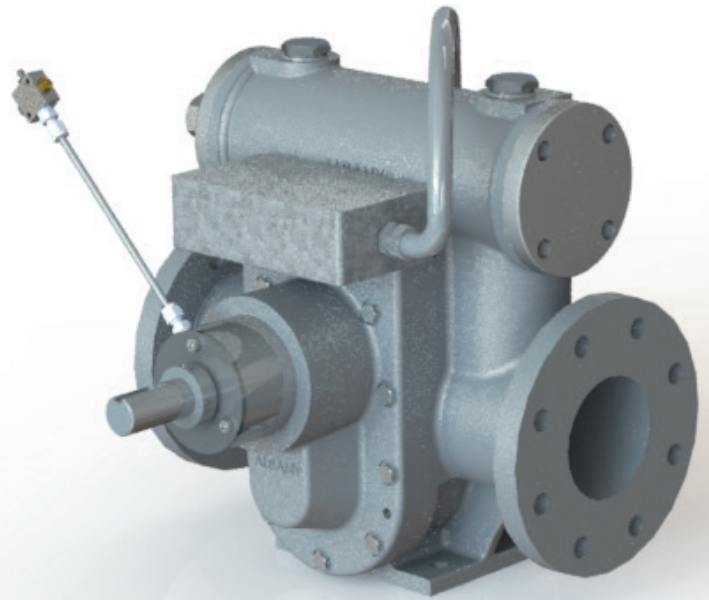


Materials: **CI**

## Heated Pumps for bitumen and bitumen emulsions

The GB range is a heated gear pump 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](http://www.albany-pumps.co.uk)



Maximum working pressure <b>7 barg</b>	Pump size range <b>1 1/2" - 6"</b>	Maximum temperature <b>220°C</b>	Flow rate <b>130-1600 L/min</b>
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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

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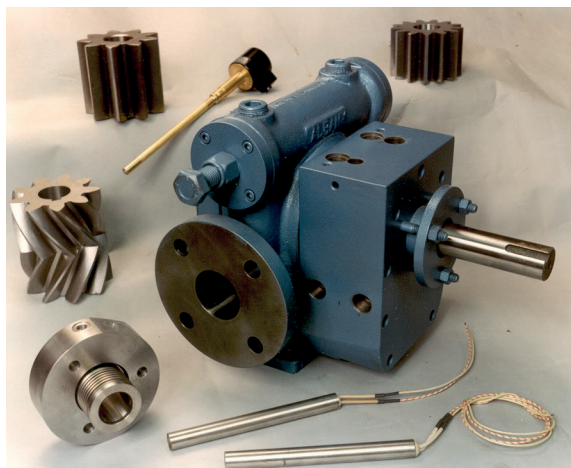
**Service and Repair Centre**

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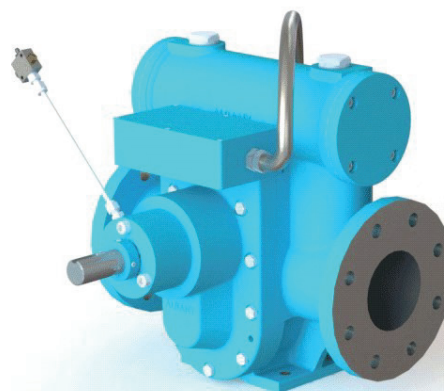
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## G: B Style:



Modular pumps with electric system or with facilities for thermal oil heating



Bitumen pump with Albany leak free seal cartridge system with remote greaser for convenient maintenance

### Features

- Standard pumps are suitable for temperatures up to 220°C, and pressures up to 7 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.

### Capacity Table – kW stated are at 3 bars & 120-180°C

Pump frame size	Flow in l/m	kW	Flow in l/m	kW	Pump branch size
	at 720 rev/min for applications as 2 below		at 960 rev/min for applications as 1 below		
AP100	136	3	187	4	1½"
HD030	197	4	255	5.5	1½"
HD040	276	5.5	340	5.5	2"
HD050	349	7.5	470	7.5	2½"
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

Larger capacities to 300 m³/hr are offered with our twin screw pumps

1. Flooded suction bitumen applications – pumps can be run at 960 rev/min
2. For bitumen with suction lifts (i.e. pump above weigh kettle) and bitumen emulsions pumps should not be run faster than 720 rev/min.

## 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 <b>7 barg</b>	Pump size range <b>1½" - 6"</b>	Maximum temperature <b>220°C</b>	Flow rate <b>130-1600 L/min</b>
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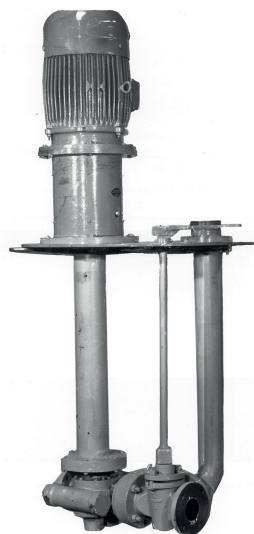
# Albany Pumps

## G: B and X Style for Triton versions

### Applications



**EXTERNAL PUMPS:** can be foot mounted with horizontal 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 400m<sup>3</sup>/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 <b>7 barg</b>	Pump size range <b>1 1/2" - 6"</b>	Maximum temperature <b>220°C</b>	Flow rate <b>130-1600 L/min</b>
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**The seal and Eezi greaser for bitumen pumps**

# Stop your bitumen glands leaking!



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

To send your pump back for a service and new seal, contact us below:

**Please note:** 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**

**G: B and X Style:  
for Barclay Kellett versions**



Materials: CI

**Gear pumps for bitumen, tar, pitch and asphalt**

- 7.5 - 550 L/min
- Sizes 1¼" to 4"
- Six sizes fitted with relief valve.
- Vertically mounted pumps:
- Pumps are supplied for vertical pipelines.
- Vertically immersed pumps are supplied for bitumen storage tanks for depths of up to 3m (10ft).

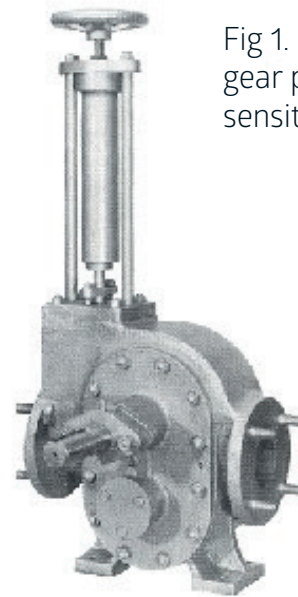


Fig 1. 3" Rotary gear pump with sensitive relief

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## G: B and X Style: for Barclay Kellett versions

### PERFORMANCE TABLE AT 300 RPM

Capacity G.P.H.	L/M	Branch Size	Pump Size	kW	Design Options		
					Plain	Jacketed	Integral Relief Valve
960	72	1¼"	2½/8T	1.1	T	-	T
1100	83	1¼"	3½/8T	2.2	T	T	-
2350	177	2"	22/8T	3.0	T	T	-
4000	302	2½"	22X/8T	5.5	T	T	-
4800	362	3" or 4"	2" SMC	5.5	T	T	T
4800	362	3"	33/8T	5.5	T	T	T
7200	544	4"	33X/8T	7.5	T	T	-

Capacities and powers are given for a viscosity of approximately 700 cSt, specific gravity 1.0 and a pressure of 3.5 bars.