

## G: Gear type pump range

### G: C Style:

## Compressor/turbine pumps

The GC range is a sturdy double bearing pump primarily used by OEMs especially in the compressor industry. These pumps offer extra rigidity around the drive shaft and specific internal options. The range is capable of use within a high system pressure layout. It is often customised to fit directly in customers' machines, with suitable framework, mountings and pipework. Specialised paint finishes are also catered for.

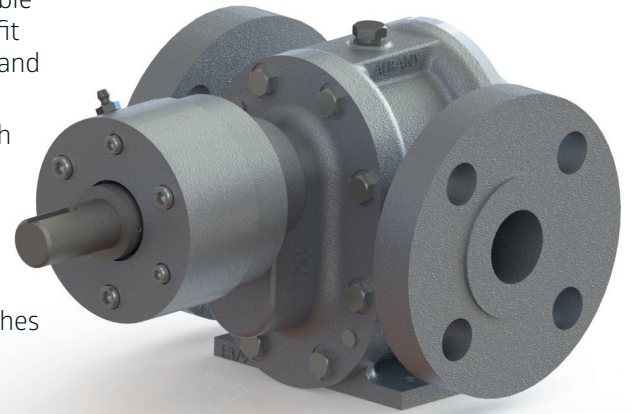
The GC style features extremely high pressure capability including high suction pressure but low differential pressure applications. Radial and axial location bearing options are offered as well as vertical and horizontal formats. (For API use GG style pumps.)

#### Features

- Flanges to ASA 150 lb. RF or 300lb. RF, alternately screwed branches with NPT threads for sizes below 1½" diameter.
- Mechanical seals with a throttle bush.
- Optionally a thrust race to absorb any resultant axial forces on the drive shaft from the seal or from hydraulic forces.
- Product lubricated bearings suitable for use with hydrocarbon-based liquids are fitted.
- These bearings are available in two patterns: firstly to approx. 150 psi depending on viscosity and severity of service, secondly to approx. 400 psi with the heavy duty pattern.
- Foot or flange mounting designs are available and the prime mover can be an electric motor or another type of drive, including the unit's gearbox and crankshaft.
- If an integral relief valve is required, it is available on all pumps.
- ATEX compliant



Materials: CS



#### Applications include:

- Lubrication of turbines and compressors.

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>70 barg (system)</b>	Pump size range <b>¾" - 4"</b>	Maximum temperature <b>220°C</b>	Flow rate <b>60-1400 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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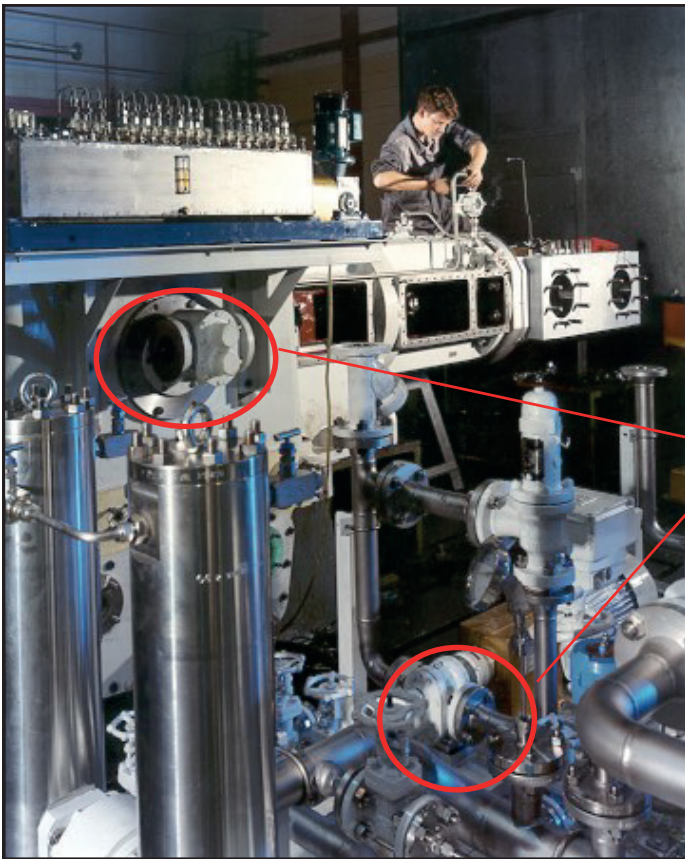
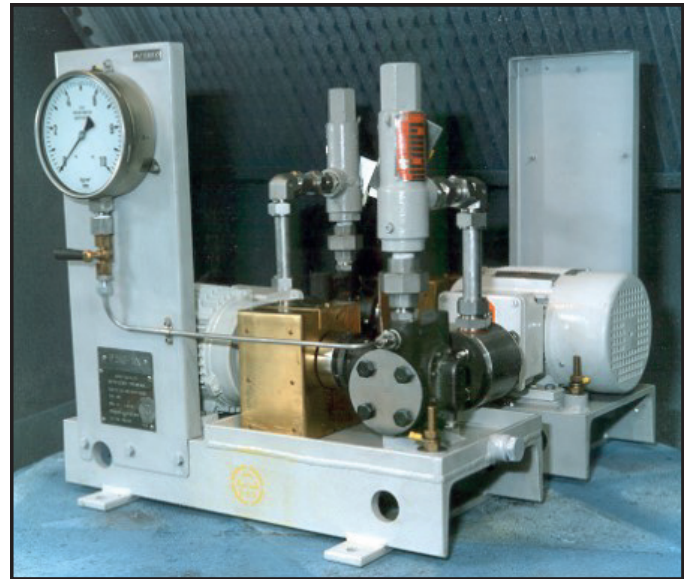
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# Albany Pumps

## G: C Style:

Duplex 2" Albany relief valve pumps on an Indian Oil Platform.  
This unit meets API 676 and stringent technical and paint specifications.



High pressure reciprocating compressor fitted with a crankshaft driven 3" Albany gear pump. A motor driven Albany API 676 pump gives pre and post lube service.

Maximum working pressure 70 barg (system)	Pump size range 3/4" - 4"	Maximum temperature 220°C	Flow rate 60-1400 L/min
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# Albany Pumps

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### Method of drive

Pumps can be supplied coupled to electric motors, geared motors, engines or to variable speed drives.

### Corrosion resistance

Pumps can be supplied in stainless steels, bronze or specialised alloys.

### Relief valves

Incorporated relief valves give 'full bore' relief on all but the highest viscosity liquids. They are adjustable for pressure and direction of pump rotation.

### Sealing

Pumps can be fitted with mechanical seals or packed glands. The duty will dictate the seal choice.

### Viscous liquids

Albany pumps can be designed for use with liquids of very high viscosity. Pipe work on the suction side of the pump must be provided to allow the liquid to enter the pump in the simplest possible way and be of ample bore.

### Bearings

Remote ball and roller bearings can be supplied where the nature of the fluid rules out the use of internal bearings.

Internal bearings are usually supplied in PTFE based materials or bronze. They can be supplied in graphite lubricated forms for high temperature applications.

Our high pressure pumps use large size plain bearings. This design provides hydrodynamic operation at all viscosities.

### Documentation and Paint

Many of our customers are in the oil and gas industry including off-shore with stringent QA requirements. Albany has long experience of supplying pumps world-wide that comply with customer specifications and pump duty. Working with CAD and our computer assisted test rigs we can supply the information and quality back up required. An epoxy "offshore" paint system is available.

## PERFORMANCE – powers and flows typical for 3.5 BARg

Pump Frame Size	95% of Theoretical output Litres/rev	Maximum viscosity 3,000 centistokes 500 RPM		Maximum viscosity 2,000 centistokes 720 RPM		Maximum viscosity 1,200 centistokes 960 RPM		Maximum viscosity 750 centistokes 1420 RPM	
		L/min	kW	L/min	kW	L/min	kW	L/min	kW
AP040	.0194	9.5	.37	13.9	.37	18.6	.37	27.7	.56
AP050	.031	15.5	.37	22.3	.56	30.0	.55	44.0	.75
AP060	.0434	21.4	.56	32.3	.75	42.7	.75	63.6	1.1
AP070	.0687	35.5	.75	50.0	1.1	65.9	1.5	97.7	2.2
AP080	.108	54.1	1.5	80.9	1.5	107.7	2.2	159	3
AP090	.162	80.9	1.5	117	1.5	156	2.2	230	4
AP09W	.213	104	3.0	154	3.5	208	4.0	313	6.5
AP100	.195	100.5	2.2	145	3.0	187	4.0	277	5.5
HD030	.273	136	4.0	197	4.0	264	5.5	390	7.5
HD040	0.386	195	4.1	277	5.6	368	7.5	520	8.5
HD050	0.491	245	5.6	350	7.5	473	7.5	650	9.5
HD060	0.62	310	7.5	445	7.5	600	11.2	880	14.0
HD070	0.805	405	7.5	582	11.2	773	11.2	REFER TO WORKS	
HD080	1.00	509	11.2	718	11.2	955	14	REFER TO WORKS	
HD100	1.32	618	11.2	950	15.0	1273	22.4		
HD110	2.09	1045	16.0E	1500	22.0E	2000	31.0E		
HD120	3.0	1364	18.6	Maximum speed 600 rpm					

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