

## Heavy Duty Industrial Gear Pumps

### Ranges AP and HD



- Versatile general purpose pump capable of handling the widest variety of viscous liquids together with simple robust design ensuring ease of maintenance
- Plain internal bearings cater for self lubricating liquids, external lubrication being available when required.
- Available with double helical rotors for quiet pulse-free running
- Simple design with two moving parts
- Temperature 320°C max.
- Pressures to 21 bar (300 PSI)
- Capacity range 9.5 l/min – 2273 l/min
- Can be supplied without integral safety relief valve
- Leaflet shows standard sizes, but special capacities can often be catered for

### Some of the many liquids handled by Albany Pumps

REFINED TAR	VISCOSE	SILICATE OF SODA	BITUMEN
GLUCOSE	GLUE	PAINTS, RESINS	VARNISH
SIZE, WAX	MOLASSES	FATS	SOAP
CHOCOLATE	ALL OILS	ASPHALT	PRINTING INK
COCOA BUTTER	GREASE	PETROL	PARAFFIN
WINES & SPIRITS	FOODSTUFFS	ACIDS, ALKALIS	POLYMERS

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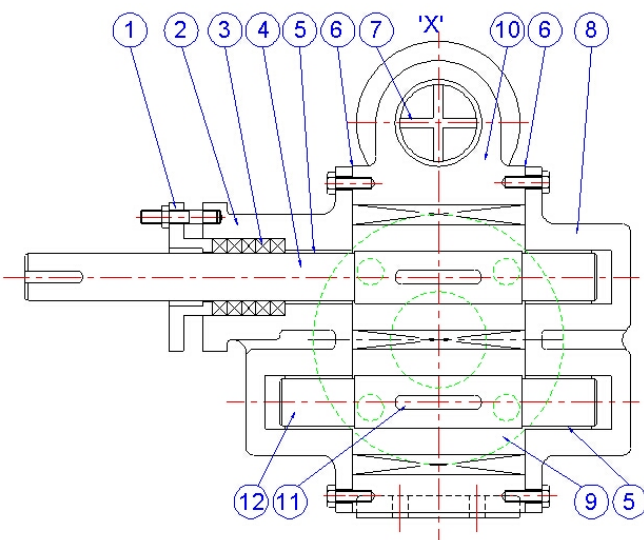
## SPECIFICATION

<b>Pump Casing:</b>	usually Cast Iron to BSI 452 also gunmetal to BSI 400 or stainless steel (AISI 316) or carbon steel to ASTM A216 WCB
<b>Rotors:</b>	usually carbon steel, nitrided steel, phosphor bronze, stainless steel, ni-resist or cast iron spur gear rotors are standard up to AP9. AP10 to HD4 double helical gear rotors are standard. For sizes AP6 to AP9 double helical rotors are an option.
<b>Shafts:</b>	usually hardened & ground steel, can also be supplied in stainless steel AISI 316
<b>Internal Bearings:</b>	for most fluids a PTFE based bearing is used bushes can also be supplied in cast iron, phosphor bronze or carbon
<b>Sealing:</b>	packed with PTFE based packing, or mechanical seals.
<b>Mounting:</b>	foot mounted or flange mounted pumps are supplied as standard

## PERFORMANCE – powers & flows typical for 3.5 bar

Pump 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/M	kW	L/M	kW	L/M	kW	L/M	kW
AP4	.0194	9.5	.37	13.9	.37	18.6	.37	27.7	.56
AP5	.031	15.5	.37	22.3	.56	30.0	.55	44.0	.75
AP6	.0434	21.4	.56	32.3	.75	42.7	.75	63.6	1.1
AP7	.0687	35.5	.75	50.0	1.1	65.9	1.5	97.7	2.2
AP8	.108	54.1	1.5	80.9	1.5	107.7	2.2	159	3
AP9	.162	80.9	1.5	117	1.5	156	2.2	230	4
AP9W	.213	104	3.0	154	3.5	208	4.0	313	6.5
HD3	.273	136	4.0	197	4.0	264	5.5	390	7.5
<b>HD4</b>	<b>0.386</b>	<b>195</b>	<b>4.1</b>	<b>277</b>	<b>5.6</b>	<b>368</b>	<b>7.5</b>	<b>520</b>	<b>8.5</b>
HD5	0.491	245	5.6	350	7.5	473	7.5	650	9.5
HD6	0.62	310	7.5	445	7.5	600	11.2	880	14.0
HD7	0.805	405	7.5	582	11.2	773	11.2	REFER TO WORKS	
HD8	1.00	509	11.2	718	11.2	955	14	REFER TO WORKS	
HD10	1.32	618	11.2	950	15.0	1273	22.4		
HD11Qx9	2.09	1045	16.0E	1500	22.0E	2000	31.0E		
HD12	3.0	1364	18.6	Maximum speed 600 rpm					
HD14	5.0	2273	37.3						

## PARTS LIST



- |     |                           |   |
|-----|---------------------------|---|
| 1   | Gland                     |   |
| 2   | Front Cover               |   |
| 3*  | Gland Packing             |   |
| 4*  | Driving Shaft             |   |
| 5*  | Bushes (4 per set)        | } Valve<br>Adjusting Screw<br>Locknut<br>Spring<br>(AP11 & over)<br>Spring Header<br>Fibre Washer |
| 6*  | Gaskets                   |   |
| 7   | Relief Valve comprises... |   |
| 8   | Back Cover                |   |
| 9*  | Rotors (2)                |   |
| 10  | Body                      |   |
| 11* | Key (2)                   |   |
| 12* | Following Shaft           |   |

### SPARES

Items we recommend as spares are indicated\*  
When ordering spares please quote pump size and the pump serial number usually stamped in position 'X'.