

Bronze In-line Pumps

For HWS Secondary and Process applications 0 - 70 l/s



Corrosion-resistant Pumps

Applications

The Pullen Series SKG Bronze pumps are designed to handle a wide range of applications from hot water supply (HWS) secondary through to applications requiring a pump construction of corrosion-resistant materials.

They are suitable for handling water at temperatures up to 120°C and for system pressures up to 10 bar.

Special seals may be required when pumping liquids other than water.

Please contact Pullen Pumps for specification and price giving precise chemical and temperature details of the liquid to be handled.

Installation

Series SKG pumps may be fitted in a horizontal or vertical pipeline and should be arranged so that the adjacent pipework can be vented of air before startup.

Suspended (Pipeline)

Small pumps can be suspended directly in the pipeline. The pipes must be supported adjacent to the pump, preferably with spring hangers or spring mounts.

However, to minimise the effects of vibration Pullen recommend the use of a wall bracket, (for pumps up to 75kg). Wall brackets should not be used on high resonance materials such as breeze block. An inertia block, 1.5 to 2 times the weight of the pump, should be placed on the bracket before positioning the pump. Anti-vibration mountings, or a sheet of vibration damping material, should be placed between the block and bracket.

Floor Mounted

If floor mounting is preferred we recommend that a concrete-filled pedestal be used. A pedestal is recommended for all pumps over 75kg in weight. The filled pedestal should weigh 1.5 to 2 times the weight of the pump. Place the filled pedestal, free-standing, on four anti-vibration mountings, or on a sheet of vibration damping material. Fix the pump to the pedestal. The space under the pedestal **MUST NOT** be clad with tiles or plaster.

See Pullen leaflet No. ANC0902 and Technical Data Sheet 4.1.

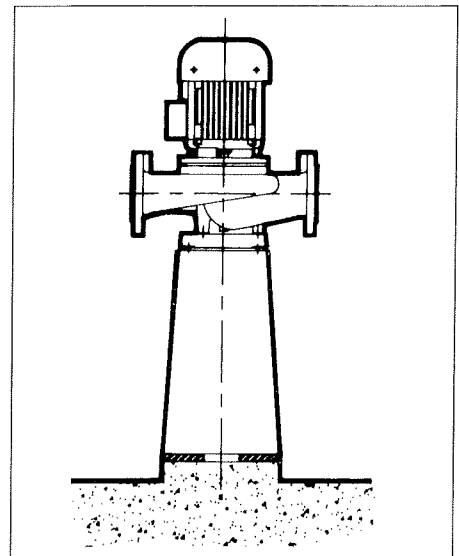
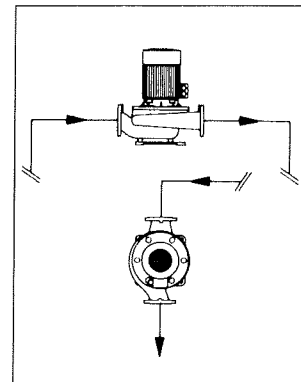
Quiet Running

Precautions should be taken to minimise noise emission and the transmission of vibration to pipework and building structures where plant is positioned close to domestic premises, hospitals and schools etc.

SKG pump motors have been specifically designed for quiet running and incorporate special bearings. The motors are totally enclosed fan-cooled.

Single-phase motors should be avoided for these applications as they transmit higher noise levels than three-phase motors.

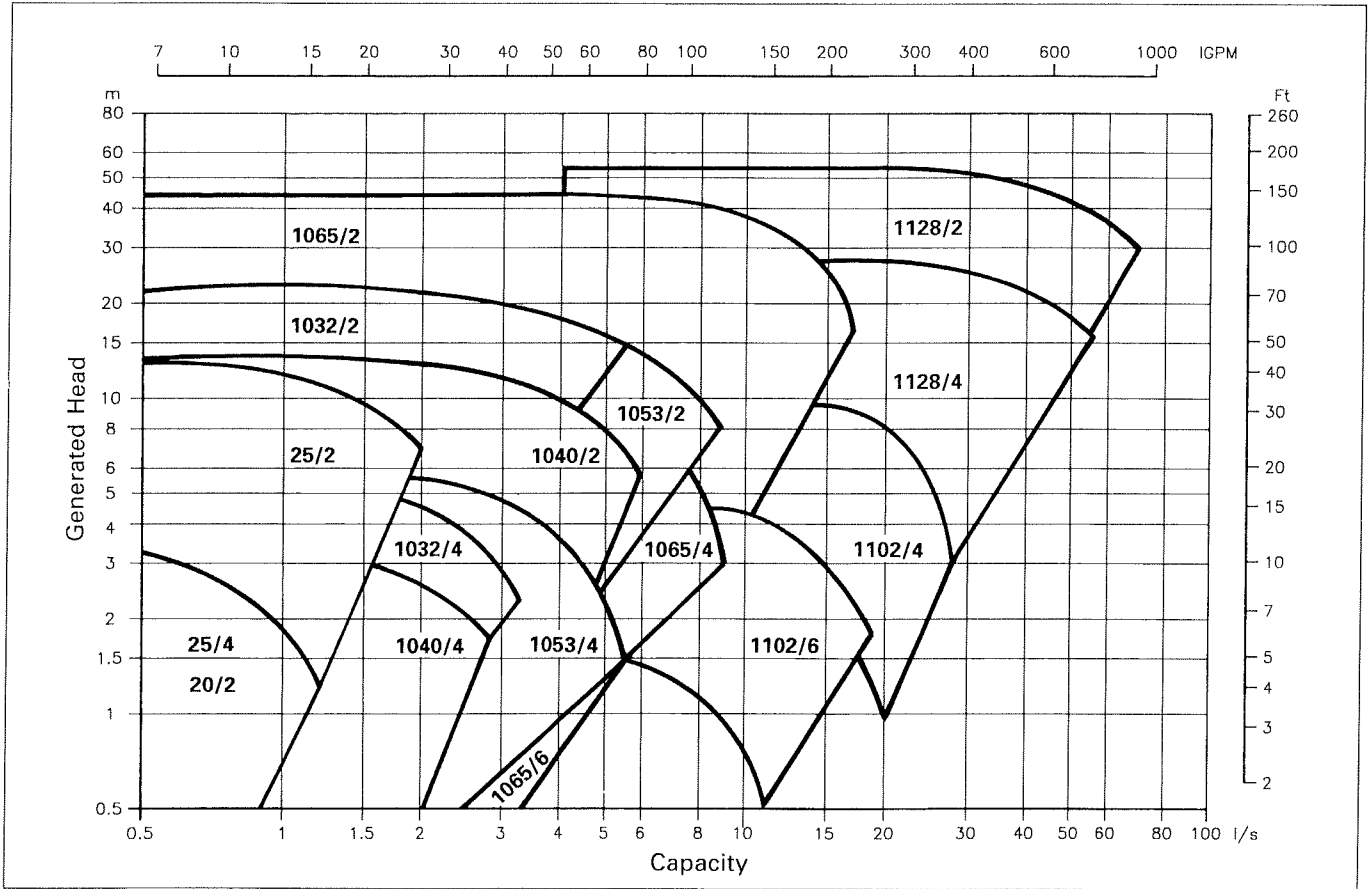
Not Recommended



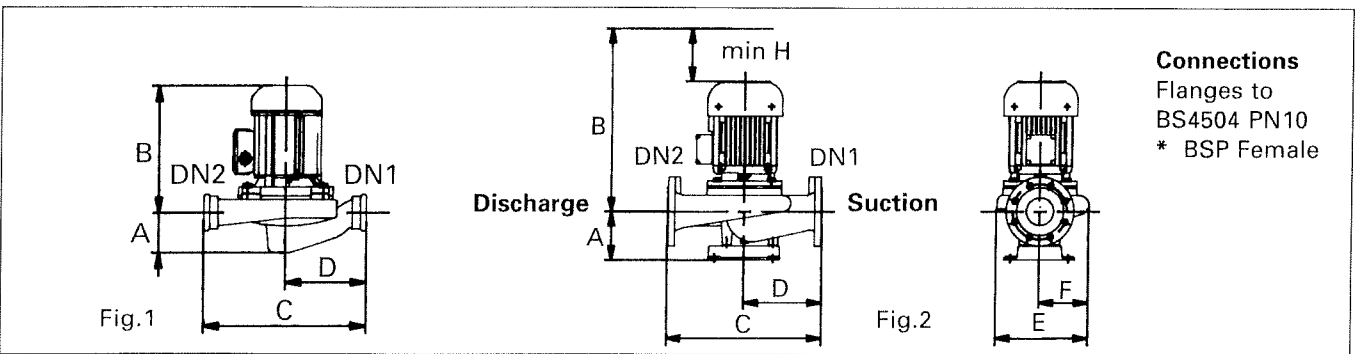
Pump weighing over 75kg on pedestal.

- Corrosion-resistant
- Wide Range
- High Efficiency
- Compact Design
- Quiet Running
- Easy Maintenance

Performance Characteristics 50Hz



Technical Data and Dimensions



Pump Type SKG	Max. Temp °C	DN1/ DN2	A	B	C	D	E	F	H	Max. Power kW	Max. Weight kg	Fig.
20	120	¾" *	35	185	190	95	120	60	125	0.06	7.5	1
25	120	1" *	60	280	220	110	156	78	125	0.65	15.0	1
1032	120	32	116	500	280	140	192	102	150	1.5	33.0	2
1040	120	40	103	430	240	108	168	90	150	0.65	22.0	2
1053	120	50	93	500	280	140	205	105	150	1.5	42.0	2
1065	120	65	125	615	360	182	255	135	150	7.5	94.0	2
1102	120	100	150	580	450	225	300	160	150	2.2	72.0	2
1128	120	125	160	1000	700	350	440	240	150	37.0	370.0	2

Material Specification

Pump Housing

Manufactured from Bronze to BS1400 Grade LG2

Impeller

SKG20 - 25 Noryl (standard) or Bronze to BS1400 Grade LG2.

SKG1032 -1128 Bronze to BS1400 Grade LG2 available.

Mechanical Seal

All SKG pumps are fitted, as standard with seals of the flexible bellows type, having carbon running against a stationary ceramic or silicon carbide seat (depending on pump size) with EPDM elastomer components. (Pumped medium - water)

Motors

Pumps with 4 and 6 pole motors 4.0kW and above supplied with motors rated at IP55.

Pumps with 2 pole motors 5.5kW and above supplied with motors rated at IP55.

Pumps fitted with smaller motors are subject to an additional charge for IP55 motor protection.

Winding temperature limited to 100°C rise at maximum output.

Voltage:- 400/3/50Hz and, 230/1/50Hz up to 1.5kW.

Other voltages and frequencies available upon request.

Pump Shaft

High-grade stainless steel to BS970 Grade 431 S29.

Pressure and Temperature Capabilities

SKG 20 - 25

Max. Nominal Pressure 10 bar

Working Temperature -15°C to +100°C
(120°C with bronze impeller)

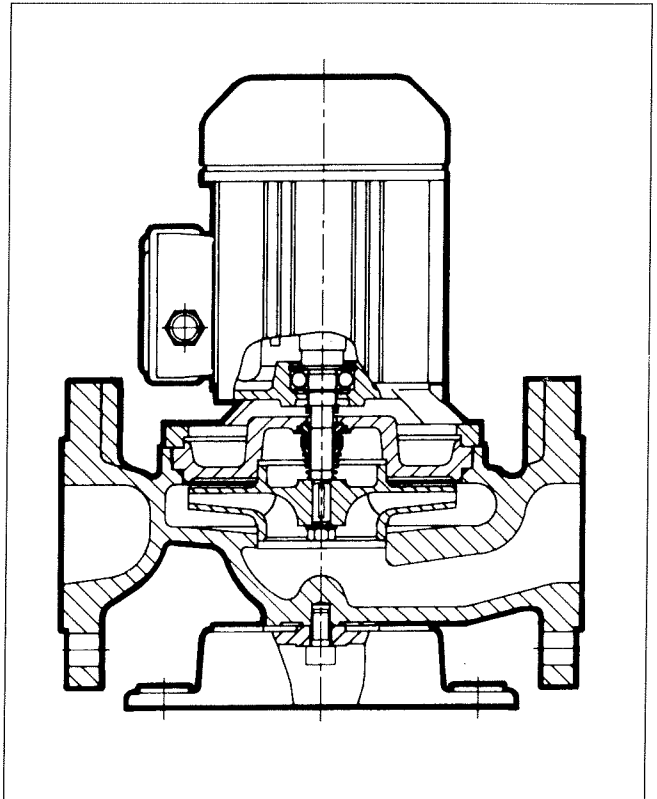
SKG 1032 - 1128

Max. Nominal Pressure 10 bar

Working Temperature -15°C to 120°C

Tests

All pumps are fully tested before they leave our works to ensure perfect running. Performance characteristics are guaranteed in accordance with BS5316 Part1.



Typical Cross Section

Alternative Material

For more arduous applications (e.g. for temperatures up to 140°C) we can supply pumps in nodular iron or stainless steel.

Please check with Pullen Pumps for the availability of pump sizes manufactured from different materials.

Accessories

A range of standard accessories is available to assist with installation and operation. These include counter-flanges, anti-vibration mountings, pedestals, wall brackets and control panels.

See Leaflet No. ANC0902.

We reserve the right to alter design and specification without prior notice

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