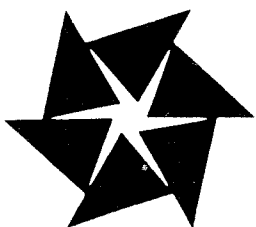
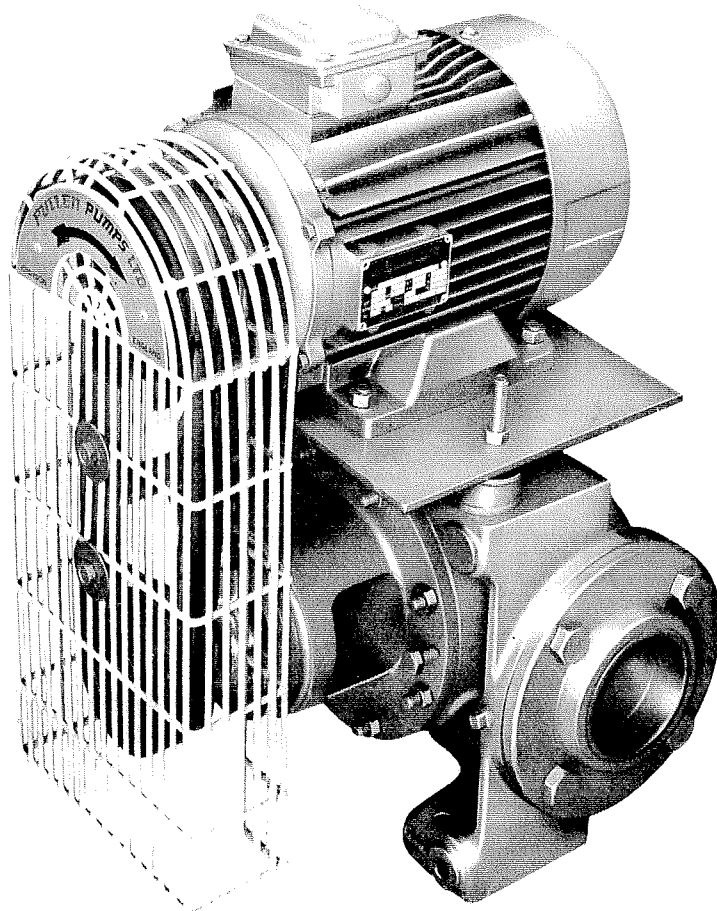


# Type 'J' Inline Belt-Driven Pumps



**For Heating and  
Hot Water Supply Systems**

# Introduction

The Pullen 'J' range of inline belt-driven pumps are made to the highest standards of design, materials and workmanship, all being hand-fitted to ensure perfect running.

They are suitable for both central heating and hot water supply systems and can be fitted directly into a pipeline. The internal construction of the pump offers negligible resistance to flow when the pump is not running, thus allowing full gravity circulation to take place without fitting a non-return valve on a by-pass.

The great advantage of the Pullen 'TB' Drive Pump

which makes it so popular with heating engineers, is its capacity to handle additional loads not envisaged in the original design. By fitting a new 'V' belt drive the speed of the pump can be increased to give greater output. An increase in speed affects the horsepower absorbed by the pump, and should it be necessary to change the motor to obtain a very large increase in duty, this can be done quite economically.

Correct belt tensioning is achieved simply by means of an adjusting screw with locking nut to ensure that the setting is maintained.

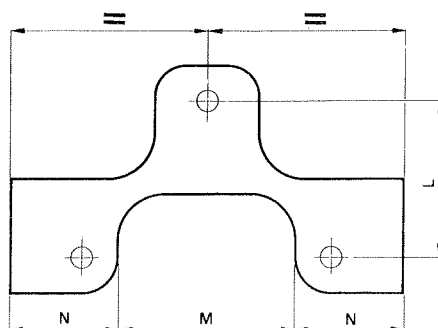
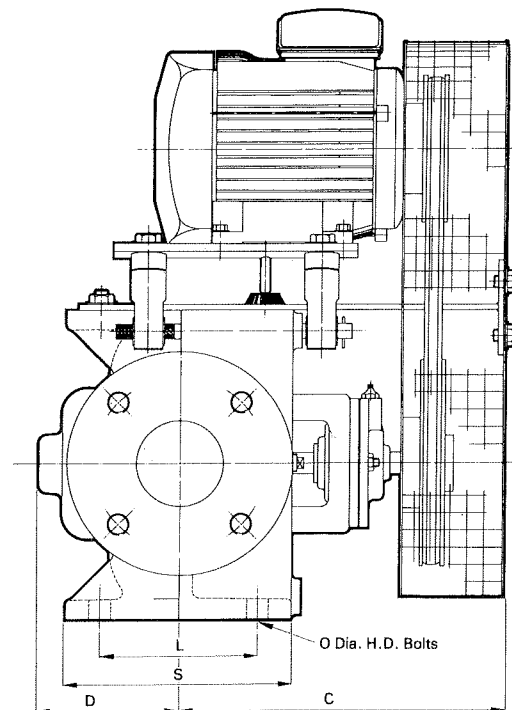
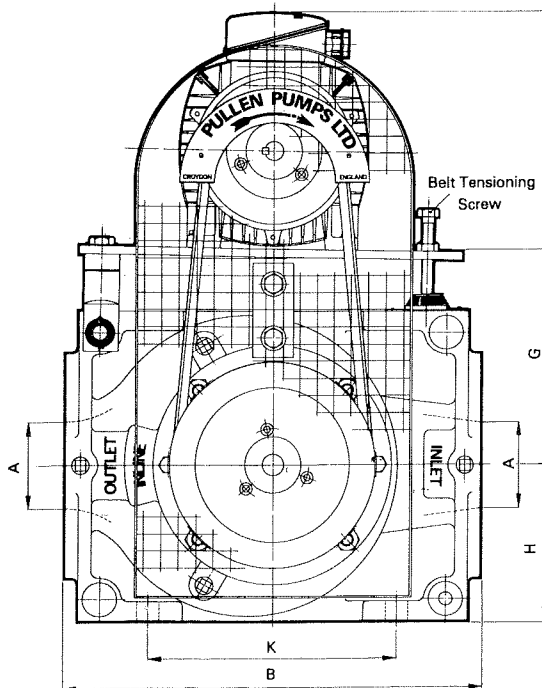
## Note

Inlet and outlet flanges are to BS10 Table 'D' and counterflanges are supplied as standard. Screwed counterflanges are supplied on pump sizes up to and including J.3 and welding counterflanges on the J.4 and J.6. These are connected to the pump by means of set screws.

The direction of flow required should be stated on the order. This is given when looking on the belt guard and as drawn below the flow is right to left.

All pumps are suitable for a maximum working pressure of 4 bar (60 lb/in<sup>2</sup>) and water temperatures up to 100°C (212°F).

## Dimensions



Dimensions in inches

Inline	A	B	C	D	G	H	K	L	M	N	O	S
J1½	1½	10	9¼	3%	6¼	4¼	5½	4	3½	3	½	6
J2	2	11	9¼	3%	6¼	4¼	6¼	4	4¼	3	½	6
J2½	2½	12	9¼	4¼	6¾	4½	7¼	4½	5¼	3	½	6½
J3	3	14	11	4¾	7¾	5¼	8¾	6	6¾	3¼	½	8
J4	4	15	11½	5½	8%	6	9	6½	7	3½	½	8½
J6	6	18	14	7¼	10	7¼	10	9	8	4½	½	11



# Specifications

## **Casing and Bearing Bracket**

are manufactured from close-grained cast iron machined to fine limits.

## **Impeller**

is cast in high grade gunmetal, accurately balanced and runs in renewable phosphor-bronze sealing rings.

## **Shaft**

is of best quality stainless steel, of large diameter for extra strength, ground to fine limits.

## **Bearings**

a heavy duty ball bearing is fitted externally, with an additional phosphor-bronze sleeve bearing fitted internally which is lubricated by the water in the casing.

## **Mechanical Seal**

is of the self-adjusting bellows type running against a long life ceramic seat.

## **Pulleys**

are of cast iron machined all over and keyed to the end of the shaft for easy removal.

## **'V' Belts**

have been carefully chosen to ensure maximum running life and are capable of transmitting a considerable margin over absorbed horsepower. The pulleys and belts are enclosed in a protective guard.

## **Rubber Anti-Vibration Mountings**

can be fitted between the pump and motor where silent running is required.

## **Note**

Single phase motors are not recommended for applications where silent running is essential.

## **Tests**

all pumps are fully tested before they leave our works to ensure perfect running.

*As we are constantly endeavouring to improve standards, we reserve the right to alter details given without prior notice.*

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