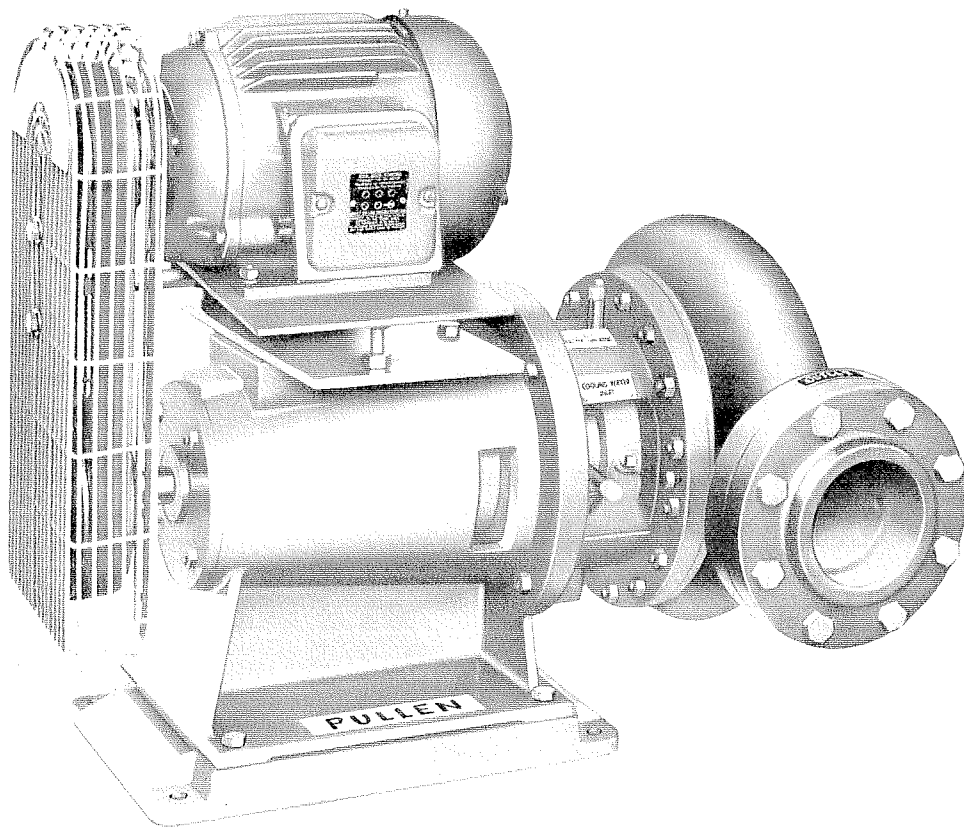


TB Centripul 'B' Range Pumps



**For Hot and Cold Water on
Medium and High Pressures**

Centripul 'B' Range Centrifugal Pumps

The Pullen 'B' Range of Centrifugal Pumps are made to the highest possible standards of design, materials and workmanship, all being hand fitted to ensure perfect running. Their aim is to give years of service with the minimum of maintenance at the desired performance.

These pumps are equally well suited for pumping hot or cold water, at medium and high pressures.

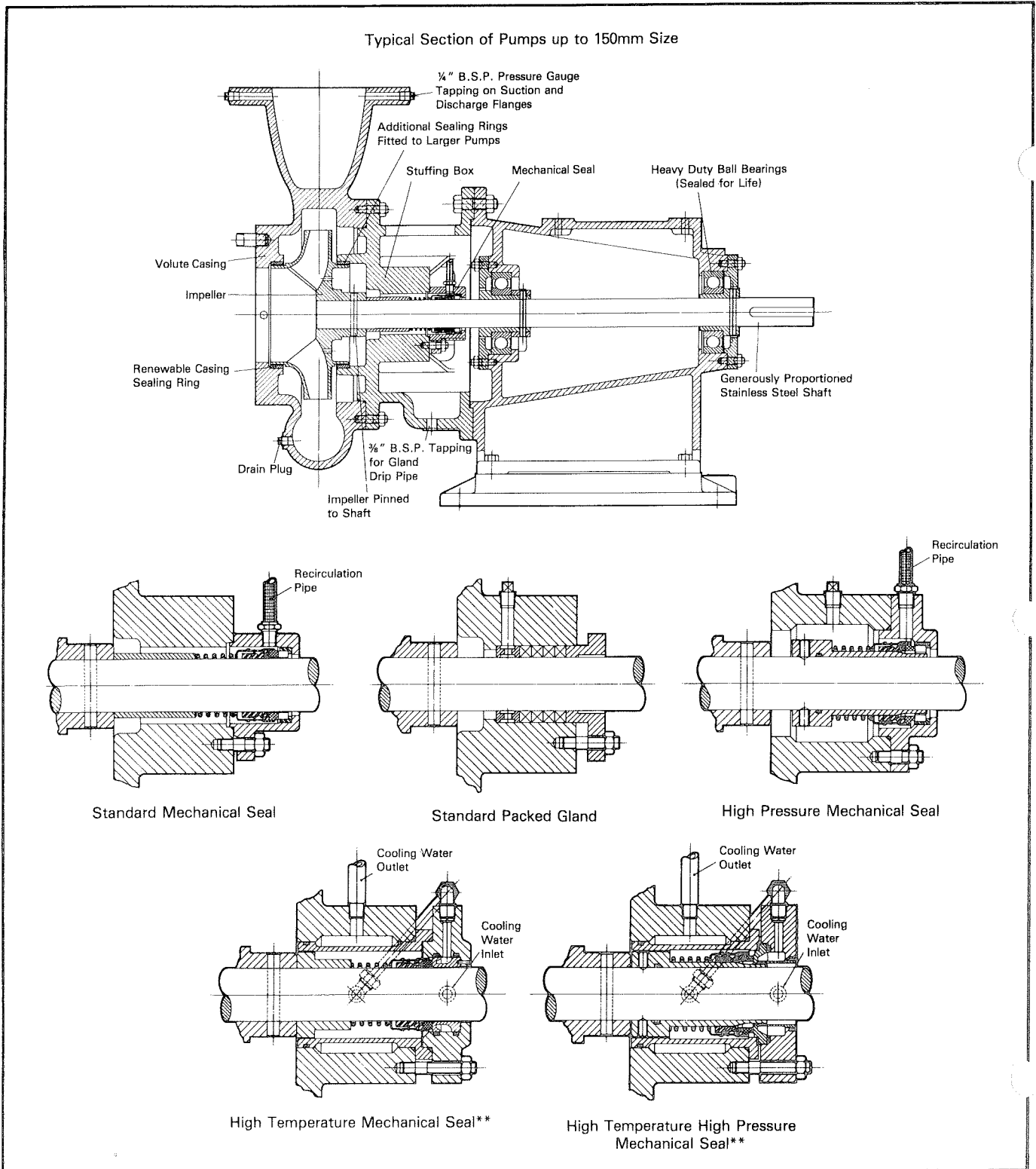
Mechanical Seals can be supplied on all pumps for

handling water at pressures up to 300 lb/in² and temperatures up to 340°F (170°C). **

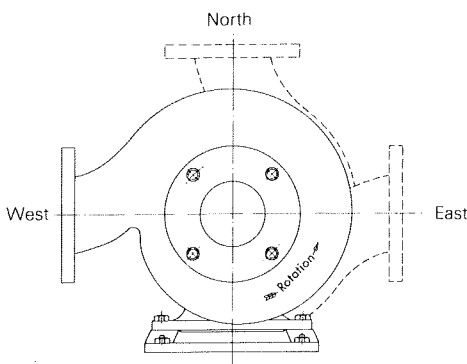
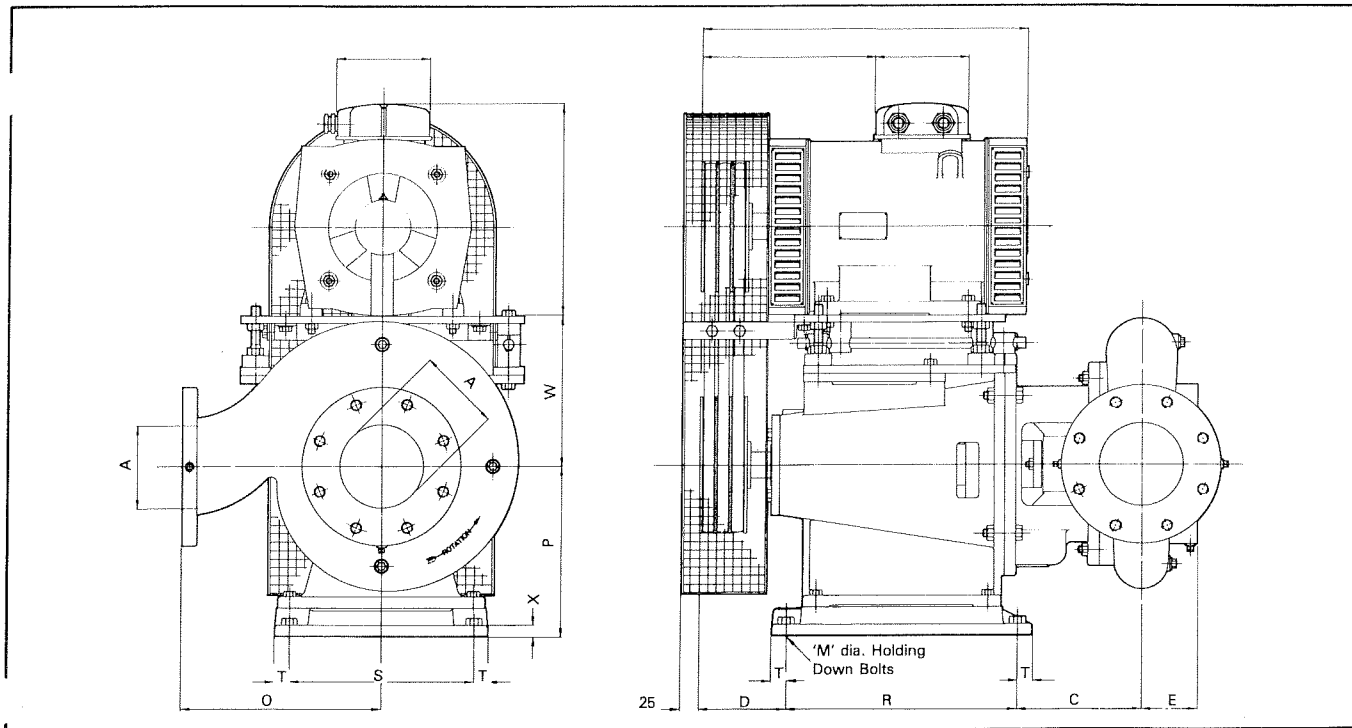
Packed glands can be supplied if requested for temperatures up to 240°F (115°C).

(See Mechanical Seal Arrangements).

****See leaflet AQ201 for details of unit suitable for supplying cooling water to the mechanical seals on high temperature applications.**



Dimensions



Alternative delivery branch position looking on suction. North delivery can sometimes be supplied. West provided unless otherwise stated.

Material Specifications

Casing Pedestal Stuffing Box Housing and Base Plate

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. BM200 and BM250 pumps are fitted as standard with cast iron impellers.

Shaft

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

Bearings

for pump sizes up to 150mm are heavy duty ball bearings sealed-for-life. BM200 and BM250 are heavy duty spherical roller bearings.

Pulleys

are of cast iron machined all over and keyed to the end of the shafts 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.

Rubber Anti-Vibration Mountings

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

Mechanical Seals

are fitted to all pumps as standard. Packed glands versions are available on request.

Tests

All pumps are fully tested before they leave our Works to ensure perfect running.

Pump	A	C	D	E	M	O	P	R	S	T	W	X
BL40	40	85	29	60	10	160	190	310	150	25	167	12
BL50	50	85	27	60	10	190	190	310	150	25	167	12
BL65	65	84	27	65	10	220	190	310	150	25	167	12
BL80	80	146	52	75	12	250	245	390	240	25	210	15
BL100	100	151	52	80	12	270	245	390	240	25	240	15
BL125	125	156	52	95	12	310	245	390	240	25	240	15
BL150	150	173	101	100	16	360	305	510	330	25	270	20
BH100	100	195	101	80	16	380	305	510	330	25	270	20
BM40	40	169	52	55	12	230	245	390	240	25	210	15
BM50	50	174	52	55	12	215	245	390	240	25	210	15
BM80	80	179	52	70	12	275	245	390	240	25	240	15
BM100	100	158	52	80	12	300	245	390	240	25	240	15
BM125	125	174	101	80	16	360	305	510	330	25	270	20
BM150	150	174	101	85	16	420	305	510	330	25	270	20
† BM200	200	72	181	140	22	457	435	660	560	50	495*	25
† BM250	250	84	181	220	22	580	435	660	560	50	495*	25

Notes:

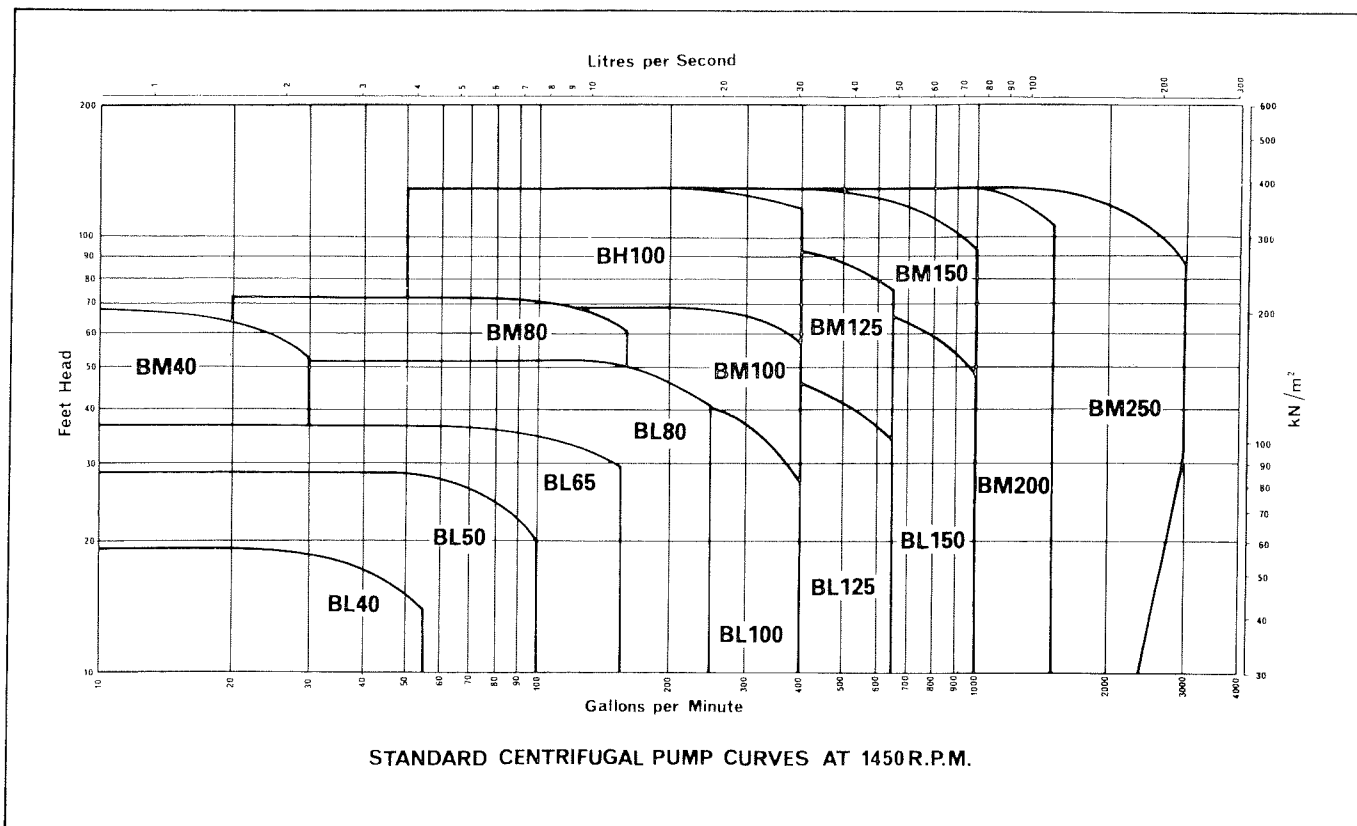
- Inlet and outlet flanges BS4504/NP16 unless otherwise ordered.
- Suffix 'P' after pump type will have BS4504/NP25 flanges as standard.
- **3 Suffix 'T' after pump type will require at least ½ gpm cooling water supply at maximum temperature of 140°F.
- A ¾" BSP tapping is provided for drip pipe from gland well of pump.
- Use 'M' dia. holding down bolts.
- Counter flanges are supplied as standard on sizes up to 150mm. Screwed flanges on pump sizes up to and including 80mm. Welding flanges on pump sizes up to 150mm.
- Add 70mm to 'C' dimension on BM200 and BM250 pumps, when high pressure, high temperature/pressure pumps are required.

*This dimension may vary for different motors.

† Packed glands not available on BM200 and BM250 pumps.

Packed glands must not be used in systems with varying pressures.

Performance Characteristics



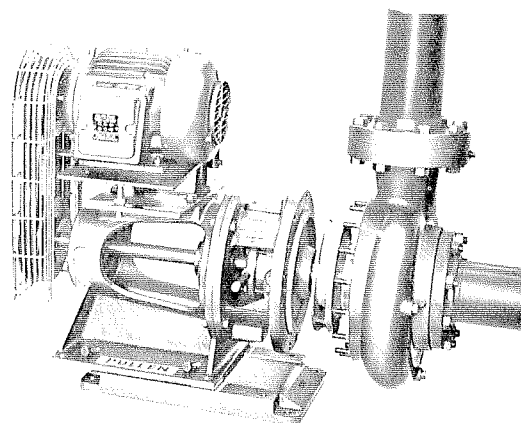
Installation Requirements for High Temperature Pumps

- 1 Water-cooled Pumps: It is essential that **cooling water** is circulated through both duty and standby pumps, whichever is in operation.
- 2 A continual low circulation of **high temperature water** from the duty, through the standby pump will maintain stable operating temperatures and prevent thermal shock in case of short-notice start-up. To achieve this, inter-connect the tappings on the discharge flanges of each pump with a small bore copper pipe fitted with a lockshield regulating valve.

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

Advantages

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 pump speed affects the horsepower absorbed. Should it be necessary to change the motor to obtain a very large increase in duty, this can be done quite economically.



The 'TB' Drive Pump can be inspected and maintained without disturbing its pipework connections. The ease of dismantling allows a new bearing, or a different type of impeller for a considerable alteration of duty to be fitted and the pump put back in service with the minimum of delay.

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

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