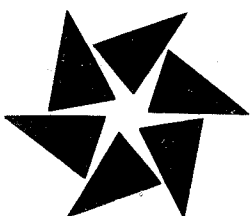
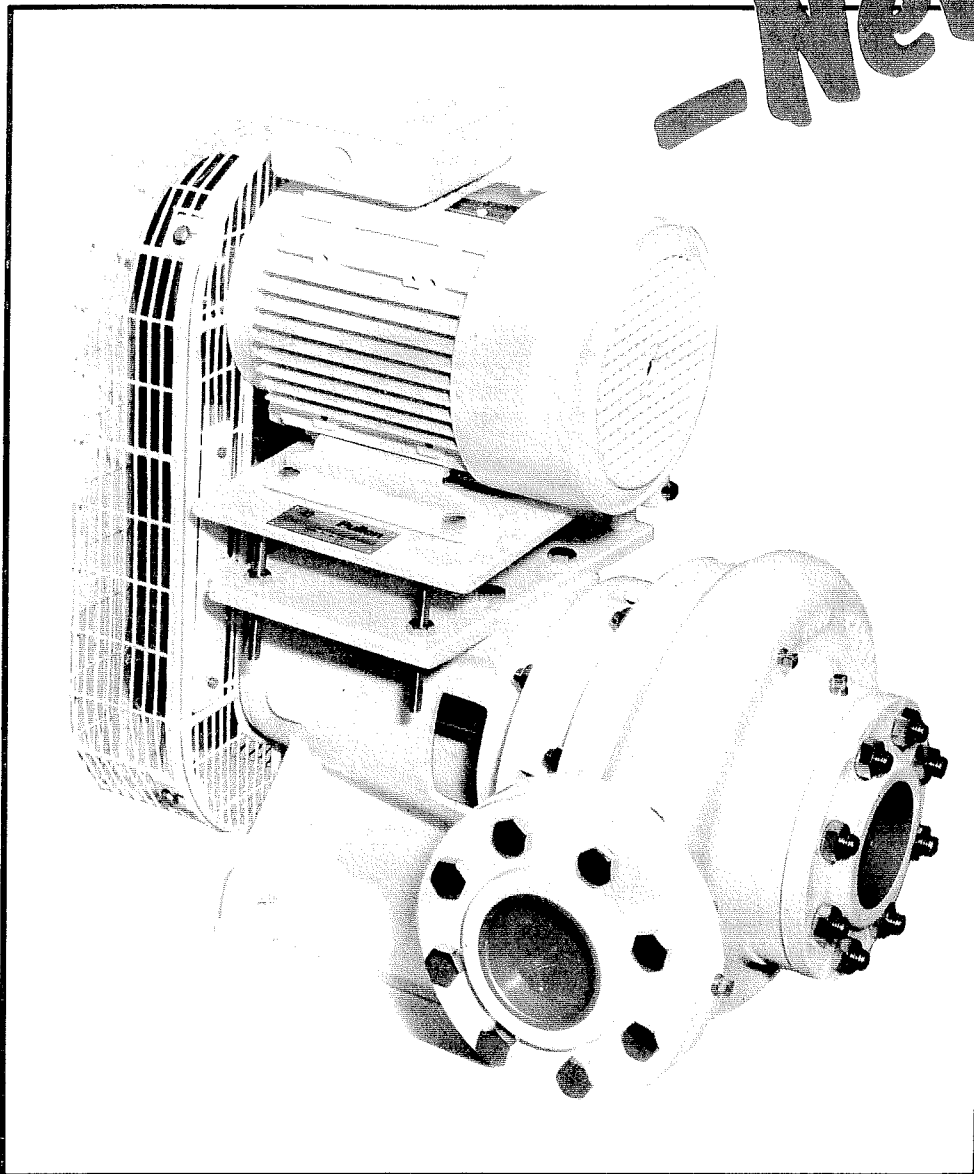


T & TB Centripul 'C' Range Pumps

- New -



**Belt-Driven Pump Sets for Hot
and Cold Water Applications on
Medium and High Pressures**

Introduction

The 'C' range of belt-driven centrifugal pumps are a result of the continual process of innovation and refinement of design pursued by Pullen Pumps. Designed and manufactured to the highest standards, they incorporate the best materials and are backed by the superb service which has become associated with any Pullen pump.

The entire range is built around the use of only five basic power-integrated pedestals, designated 1c, 2c, 3c, 5c and 6c. This unique feature enables the pump to be fitted to the most suitable pedestal for the power requirement, thus ensuring that no 'C' range pump is ever stretched to its performance limit, or conversely oversized.

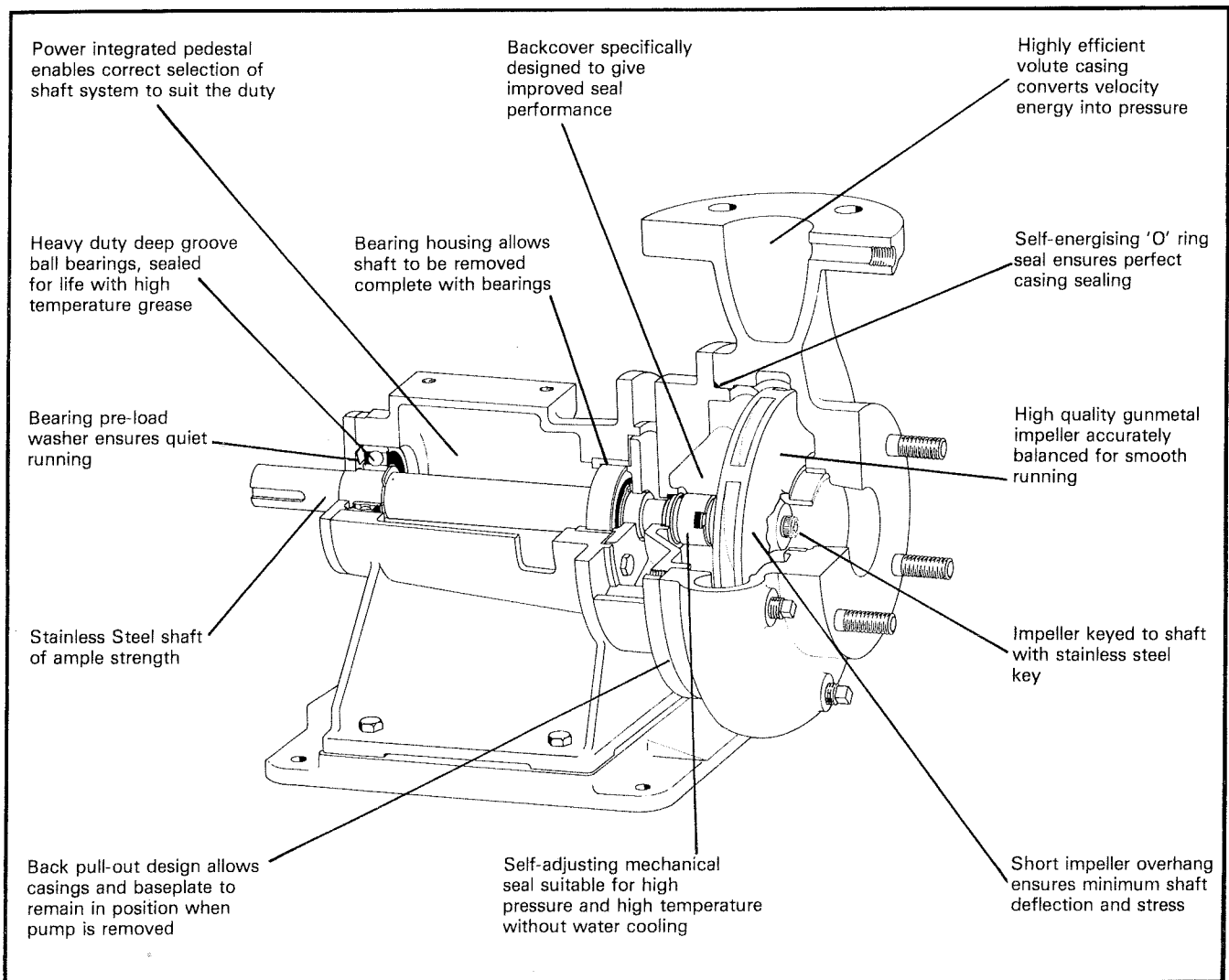
Standard pumps in the range are suitable for handling water at temperatures up to 125°C and system pressures up to 8 or 10 bar, depending on the size of pump. (See Dimension Tables). High-pressure and high-temperature versions are available to cater for system pressures up to 21 bar and working temperatures up to 160°C, without the need for water cooling. This has been achieved by a special design of seal housing, unique to the Pullen 'C' range, which improves seal interface lubrication, thereby increasing the capability of the seal.

All pumps in the range require the minimum of routine maintenance and have been so designed that should a major overhaul be required, this can very quickly be effected, particularly if a pre-assembled standardised shaft system is used.

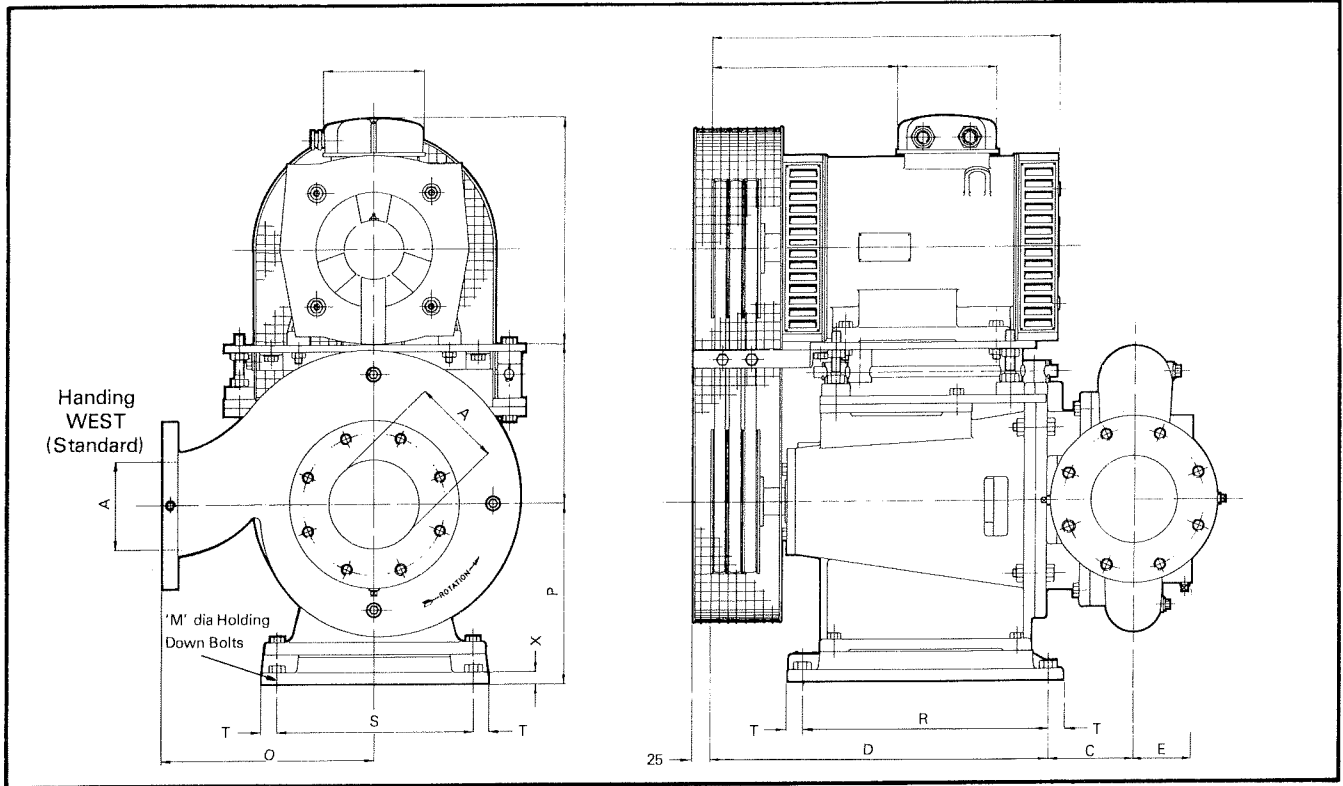
Drive Arrangements

Two alternative belt - drive arrangements are available: **The 'TB'-drive arrangement**, where the motor is mounted directly above the pump, requires the minimum of plantroom floor area. It is available on pumps of motor frame size indicated in the Dimension Tables. In this arrangement West discharge is standard with the alternative of East discharge. North discharge can sometimes be achieved, depending on the size of motor required.

The 'T'-drive arrangement, where the motor is mounted by the side of the pump on a common baseplate, is used where motors of large frame size are required, or if North discharge is essential. In the 'T'-drive arrangement pumps will be supplied with North discharge as standard.



Dimensions 'TB' Drive



Pump— Pedestal	A	C	D	E	M	O	P	R	S	T	W Max	X	Max. Capability of Standard Pump	
													Temp °C	Press bar
CL40-1c	40	81	272	60	10	160	135	230	110	25	181	10	125	8
CL40-2c	40	56	337	60	10	160	190	310	150	25	197	12	125	8
CL50-1c	50	56	297	60	10	190	165	310	150	25	181	12	125	8
CL50-2c	50	56	337	60	10	190	190	310	150	25	197	12	125	8
CL65-1c	65	55	297	65	10	220	165	310	150	25	181	12	125	8
CL65-2c	65	55	337	65	10	220	190	310	150	25	197	12	125	8
CL80-2c	80	48	337	75	10	250	190	310	150	25	197	12	125	8
CL80-3c	80	94	378	75	10	250	215	310	150	25	222	12	125	8
CL100-2c	100	58	332	80	10	270	215	310	150	25	197	12	125	8
CL100-3c	100	99	378	80	10	270	215	310	150	25	222	12	125	8
CL125-3c	125	66	416	95	12	310	245	390	240	25	222	15	125	8
CL125-5c	125	94	442	95	12	310	245	390	240	25	338	15	125	8
CL150-5c	150	60	477	100	16	360	305	510	330	25	338	20	125	8
CL150-6c	150	99	611	100	16	360	305	510	330	25	297	20	125	8
CM40-2c	40	65	332	55	10	230	215	310	150	25	197	12	125	10
CM40-3c	40	106	378	55	10	230	215	310	150	25	222	12	125	10
CM40-5c	40	106	442	55	12	230	245	390	240	25	315	15	125	10
CM50-2c	50	62	337	55	10	215	190	310	150	25	197	12	125	10
CM50-3c	50	103	378	55	10	215	215	310	150	25	222	12	125	10
CM50-5c	50	103	442	55	12	215	245	390	240	25	315	15	125	10
CM80-3c	80	78	416	70	12	275	245	390	240	25	222	15	125	10
CM80-5c	80	116	442	70	12	275	245	390	240	25	338	15	125	10
CM100-3c	100	53	416	80	12	300	245	390	240	25	222	15	125	8
CM100-5c	100	96	442	80	12	300	245	390	240	25	338	15	125	8
CM125-5c	125	58	477	80	16	360	305	510	330	25	338	20	125	8
CM125-6c	125	99	611	80	16	360	305	510	330	25	297	20	125	8
CM150-5c	150	58	477	85	16	420	305	510	330	25	338	20	125	8
CM150-6c	150	99	611	85	16	420	305	510	330	25	297	20	125	8
CH100-5c	100	73	477	80	16	380	305	510	330	25	338	20	125	10
CH100-6c	100	119	611	80	16	380	305	510	330	25	297	20	125	10
CH150-6c	150	104	611	105	16	450	345	510	330	25	297	20	125	10

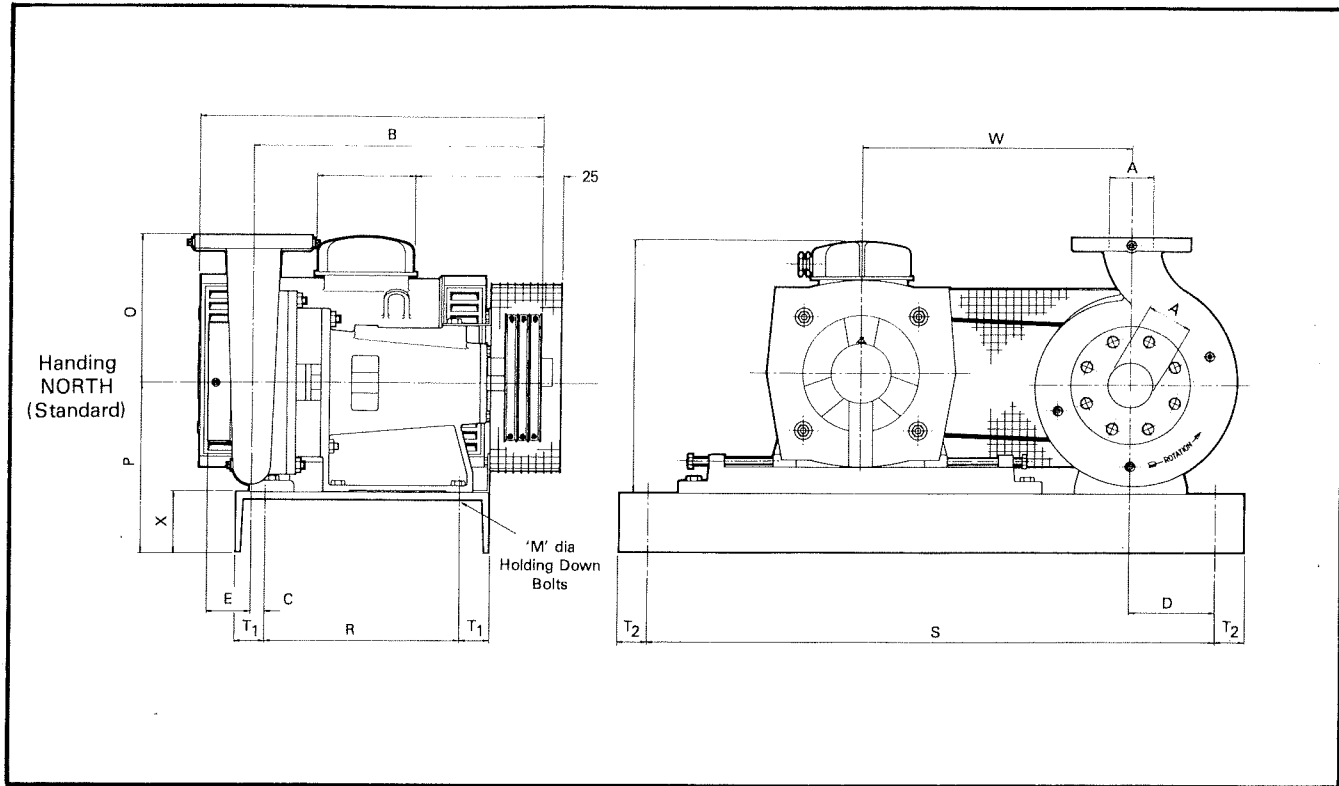
Notes:

The maximum size of motor that can be fitted to 'TB' drive pumps is shown in this table.

Pumps requiring larger motors than those given must use the 'T' drive arrangement.

Pedestal	Max. Motor for 'TB' drive			
	TEFC		Drip-proof	
	Frame	kW	Frame	kW
1c	D90L	1.5	—	—
2c	D100L	3.0	—	—
3c	D132M	7.5	—	—
5c	D160L	15.0	C160L	18.5
6c	D180L	22.0	C180L	30.0

Dimensions 'T' Drive

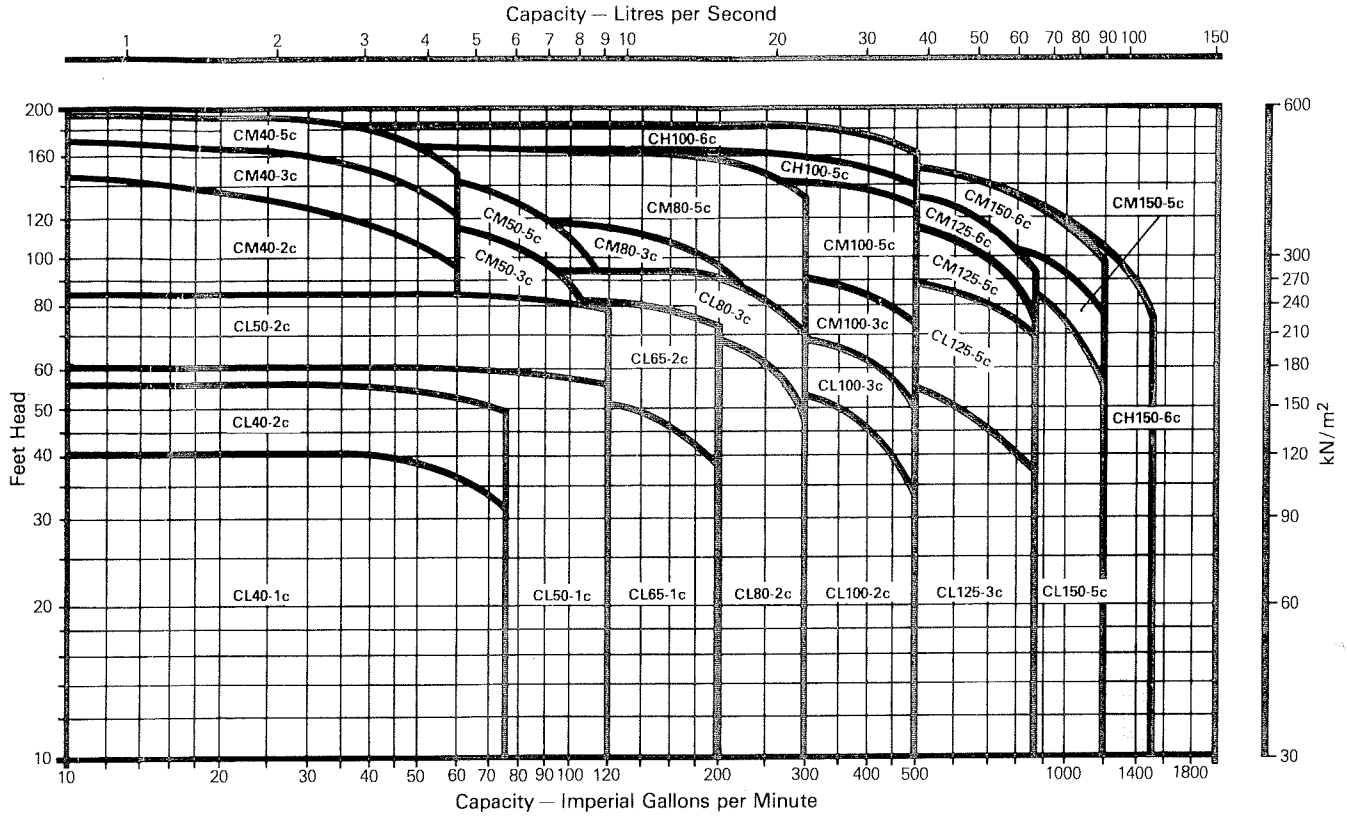


Pump— Pedestal	A	B	C	D	E	M	O	P	R	S	T ₁	T ₂	W Max	X	Max. Capability of Standard Pump	
															Temp °C	Press bar
CL40-1c	40	353	71	90	60	12	160	186	204	560	25	20	270	76	125	8
CL40-2c	40	393	56	110	60	12	160	249	255	700	25	20	350	89	125	8
CL50-1c	50	353	71	90	60	12	190	211	204	560	25	20	270	76	125	8
CL50-2c	50	393	56	110	60	12	190	249	255	700	25	20	350	89	125	8
CL65-1c	65	352	70	90	65	12	220	211	204	560	25	20	270	76	125	8
CL65-2c	65	392	55	110	65	12	220	249	255	700	25	20	350	89	125	8
CL80-2c	80	385	48	110	75	12	250	289	255	700	25	20	350	89	125	8
CL80-3c	80	472	27	120	75	16	250	287	362	820	35	25	410	102	125	8
CL100-2c	100	390	53	110	80	12	270	289	255	700	25	20	350	89	125	8
CL100-3c	100	477	32	120	80	16	270	337	362	820	35	25	410	102	125	8
CL125-3c	125	482	37	120	95	16	310	337	362	820	35	25	410	102	125	8
CL125-5c	125	536	99	165	95	20	310	307	362	1060	35	25	550	102	125	8
CL150-5c	150	537	100	165	100	20	360	357	362	1060	35	25	550	102	125	8
CL150-6c	150	710	173	215	100	20	360	357	362	1240	35	25	600	102	125	8
CM40-2c	40	397	60	110	55	12	230	289	255	700	25	20	350	89	125	10
CM40-3c	40	484	39	120	55	16	230	287	362	820	35	25	410	102	125	10
CM40-5c	40	548	111	165	55	20	230	307	362	1060	35	25	550	102	125	10
CM50-2c	50	399	62	110	55	12	215	249	255	700	25	20	350	89	125	10
CM50-3c	50	481	36	120	55	16	215	287	362	820	35	25	410	102	125	10
CM50-5c	50	545	108	165	55	20	215	307	362	1060	35	25	550	102	125	10
CM80-3c	80	494	49	120	70	16	275	337	362	820	35	25	410	102	125	10
CM80-5c	80	558	121	165	70	20	275	307	362	1060	35	25	550	102	125	10
CM100-3c	100	469	24	120	80	16	300	337	362	820	35	25	410	102	125	8
CM100-5c	100	538	101	165	80	20	300	307	362	1060	35	25	550	102	125	8
CM125-5c	125	535	98	165	80	20	360	357	362	1060	35	25	550	102	125	8
CM125-6c	125	710	173	215	80	20	360	357	362	1240	35	25	600	102	125	8
CM150-5c	150	535	98	165	85	20	420	357	362	1060	35	25	550	102	125	8
CM150-6c	150	710	173	215	85	20	420	357	362	1240	35	25	600	102	125	8
CH100-5c	100	550	113	165	80	20	380	357	362	1060	35	25	550	102	125	10
CH100-6c	100	730	193	215	80	20	380	357	362	1240	35	25	600	102	125	10
CH150-6c	150	715	178	215	105	20	450	372	362	1240	35	25	600	102	125	10

Notes:

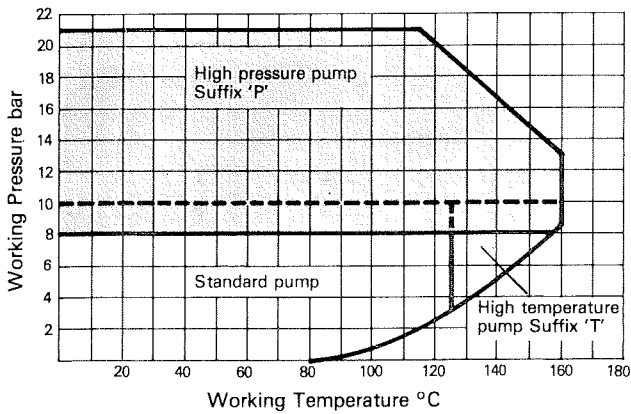
- Inlet and outlet flanges on standard and high-temperature pumps (suffix 'T') are to BS4504 NP16 unless requested otherwise.
- Inlet and outlet flanges on high-pressure pumps (suffix 'P') are to BS4504 NP25 unless requested otherwise.
- Counterflanges are supplied as standard on all pumps: Screwed flanges on pump sizes up to 80mm, welding flanges on pump sizes 100mm to 150mm.
- 'C' Range pumps are not available with packed gland.

Performance Characteristics

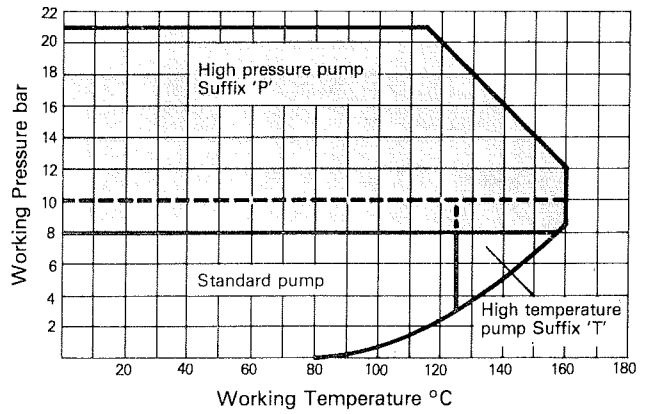


Pressure and Temperature Capabilities

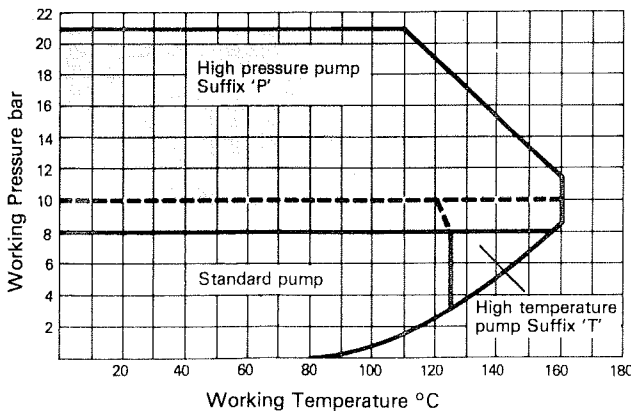
Pumps fitted to 1c and 2c pedestals



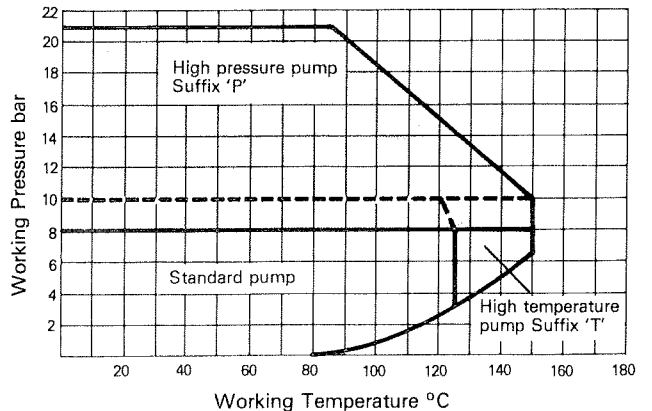
Pumps fitted to 3c pedestal



Pumps fitted to 5c pedestal



Pumps fitted to 6c pedestal



Pumps with standard casings rated 8 bar ———

Pumps with standard casings rated 10 bar - - - - -

Material Specifications

Casing, Pedestal and Backcover

Manufactured from close-grained cast iron to BS1452 Grade 220, machined to fine limits.

Impeller

Cast in high-grade gunmetal to BS1400 Grade LG2-C, dynamically balanced, and runs in renewable phosphor-bronze sealing rings.

Shaft

High-grade stainless steel to BS970 Grade 431S29, of large diameter for extra strength and minimum deflection, ground to fine limits.

Impeller Key and Screw

Stainless steel, for resistance to corrosion.

Bearings

Heavy-duty ball bearings, sealed-for-life, sized to transmit the highest loads, and pre-packed with high-temperature grease.

Mechanical Seals

All 'C' range pumps are fitted with seals of the flexible-bellows type. Standard pumps have carbon running against a stationary ceramic seat. High-temperature and high-pressure pumps feature carbon running against a stationary tungsten-carbide seat.

Pulleys

Cast-iron, machined all over, and keyed to the end of the shaft for easy removal.

'V' Belts

Selected to ensure maximum running life, and capable of transmitting a considerable margin over the absorbed horsepower.

Baseplate

'TB'-Drive: Close-grained cast iron.

'T'-Drive: Mild steel of substantial thickness to prevent distortion.

Tests

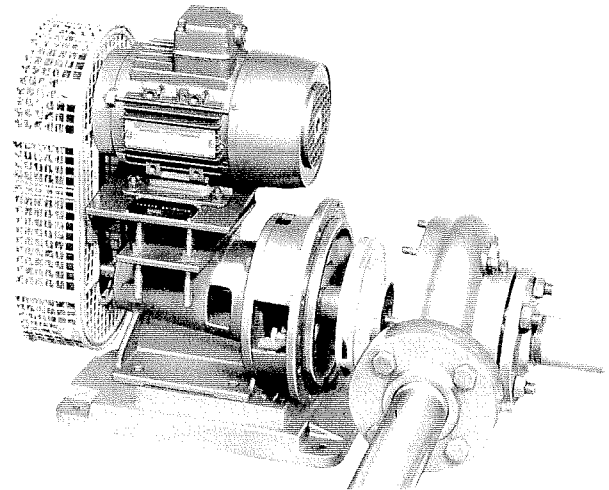
All pumps are fully tested before they leave our works to ensure perfect running. Performance characteristics are guaranteed in accordance with BS5316 Part 1.

Advantages of Pullen Belt-Driven Pumps

The continuing popularity of Pullen 'TB'- and 'T'-drive pumps, especially with heating engineers, is due to their capacity to handle additional loads not envisaged in the original system design. By fitting a new 'V'-belt drive the speed can be altered to exactly match the system requirement. Note: An increase in pump speed affects the power absorbed. If necessary, a change of motor to obtain a very large increase in duty can be achieved quite economically.

Belts can be correctly tensioned without difficulty by means of the adjusting screws. Lock nuts on these screws ensure that the tension is maintained.

The Pullen 'C' range pump can be inspected and maintained without disturbing pipework or baseplate connections. The ease of dismantling allows new bearings or seals to be fitted and the pump to be put back in service with the minimum delay.



Pull-back feature of Pullen 'C' range pumps

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

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