AUSSIE GMP PUMPS
HYDRAULIC DRIVE (CAST IRON) ... COMPACT & POWERFUL

G3TMK-A/ST
hydraulic drive

B4KQ-A/ST
hydraulic drive

Aussie GMP self priming centrifugal cast iron hydraulic drive semi trash pumps in 2", 3" and 4" configurations, designed for high and low pressure operations.

Pumps feature big open impellers, non clog design, silicon carbide mechanical seal, stainless steel wear plate and large front opening port to permit cleaning without pipe work disconnection.

Flows available to 2200 litres per minute and heads to 55 metres.
These hydraulic drive motor pumps can be operated in either closed centre or open centre hydraulic systems.

Bronze & stainless steel hydraulic drive pumps also available, see separate spec sheet.

Features	Benefits
• Heavy duty cast iron construction	» Long trouble free life
• Open non clog style, cast iron impeller, (stainless steel impeller options for abrasive applications)	» Ability to pump solids in suspension
• Self primes from 6 metres	» Ready to pump in minimum amount of time
• Front mounted clean out port	» Pump clean out without pipe work dismantling
• Cast iron foot mounting	» Stable, easy to install
• Silicon carbide mechanical seal standard, option of Viton or Tungsten Carbide#	» Flexibility of handled liquids
• Stainless steel wear plate	» Protects pump from wear, cuts operating costs
• Elimination of dependant engine in mobile applications	» Reduced cost, improved reliability
• Compact design	» Facilitates installation
• Power supplied by hydraulic lines	» Flexible design, pump can be located in the most appropriate position, elimination of drive shafts

Ideal for mobile applications including:

- Mine and dust suppression
- Water cart
- Water deliver truck tanker
- Fire fighting tanker refill
- Underground mine dewatering
- Drilling rigs

B2KQ-A/ST
hydraulic drive

Specifications

Port size (in/out)	Model	PSI	Curve below	Total Head (m)	Capacity (l/m)	Solid size (mm)	Hydraulic requirements at 3,000 rpm	Weight (kg)
2" x 2"	**B2KQ-A/ST**	25	❶	18	440	19	8.5cm^3/rev, 100 bar (3kW)	18.5
3" x 3"	**B3KQ-A/ST**	22	❷	16	900	25	8.5cm^3/rev, 100 bar (3kW)	20.2
	B3XR-A/ST	43	❹	31	1500	35	22cm^3/rev, 150 bar (7kW)	56
		43		31	1500	35	35cm^3/rev, 100 bar (12.5kW)	56
	G3TMK-A/ST	67	❻	47	850	16	22cm^3/rev, 150 bar (7kW)	61
		77	❼	55	1100	16	35cm^3/rev, 100 bar (12.5kW)	61
4" x 4"	**B4KQ-A/ST**	20	❸	14	1600	37	22cm^3/rev, 150 bar (7kW)	64
		20		14	1600	37	35cm^3/rev, 100 bar (12.5kW)	64
	B4XR-A/ST	42	❺	30	2200	39	35cm^3/rev, 100 bar (12.5kW)	65

Due to our program of continuous product development the manufacturer reserves the right to alter specifications without notice. Performance figures to be taken as a guide only

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Impeller and Seal Options

Port size (in/out)	Model	S/code	CAT No.	Impeller material	Mech seal/Counterface	Hydraulic motor
2" x 2"	**B2KQ-A/ST**	GB2KQ-A/ST HYD	AA9A/AA6U	Cast iron	Silicon Carbide	Casappa PLM20.8
		GB2KQ-A/STHYDSS	AARF	316 Stainless steel	Silicon Carbide	Casappa PLM20.8
		GB2KQ-A/STHYDSS	AATH	316 Stainless steel	Silicon Carbide	Vivoil XV-2U/9
		GB2KQA/STHYDSSTC	AATL	316 Stainless steel	Tungsten Carbide	Vivoil XV-2U/9
3" x 3"	**B3KQ-A/ST**	GB3KQ-A/ST HYD	AA5B/AA7U	Cast iron	Silicon Carbide	Casappa PLM20.8
	B3XR-A/ST	GB3XR-A/STHYD22VI	ASHK	Cast iron	Silicon Carbide	Vivoil XV-3U/21
		GB3XR-A/STHYDDR	ASMU	316 stainless steel	Tungsten Carbide	Vivoil XV-3U/21
		GB3XR-A/ST HYD22	ASM8	Cast iron	Silicon Carbide	Casappa PLM30.22
		GB3XR-A/ST HYD	ASD9	Cast iron	Silicon Carbide	Casappa PLM30.34
	G3TMK-A/ST	G3TMK-A/ST HYD22	ASM9	Cast iron	Silicon Carbide	Casappa PLM30.22
		G3TMK-A/STHYD/TC	ASMQ	Cast iron	Tungsten Carbide	Casappa PLM30.22
		G3TMKA/STHYD/DRV	ASMR	316 Stainless steel	Tungsten Carbide	Vivoil XV-3U/21
		G3TMK-A/STHYD/DR	ASMN	316 Stainless steel	Tungsten Carbide	Casappa PLM30.34
		G3TMK-A/ST HYD	ASE1	Cast iron	Silicon Carbide	Casappa PLM30.34
4" x 4"	**B4KQ-A/ST**	GB4KQ-A/ST HYD22	ASM7	Cast iron	Silicon Carbide	Casappa PLM30.22
		GB4KQ-A/ST HYD	ASD8	Cast iron	Silicon Carbide	Casappa PLM30.34
	B4XR-A/ST	GB4XR-A/ST HYD	ASE9	Cast iron	Silicon Carbide	Casappa PLM30.34
		GB4XR-A/STHYD/DR	ASMT	316 Stainless steel	Tungsten Carbide	Vivoil XV-3U/32

Stainless steel impellers and tungsten carbide seals recommended for abrasive applications like mud tanks

4" B4XR-A/ST HYD

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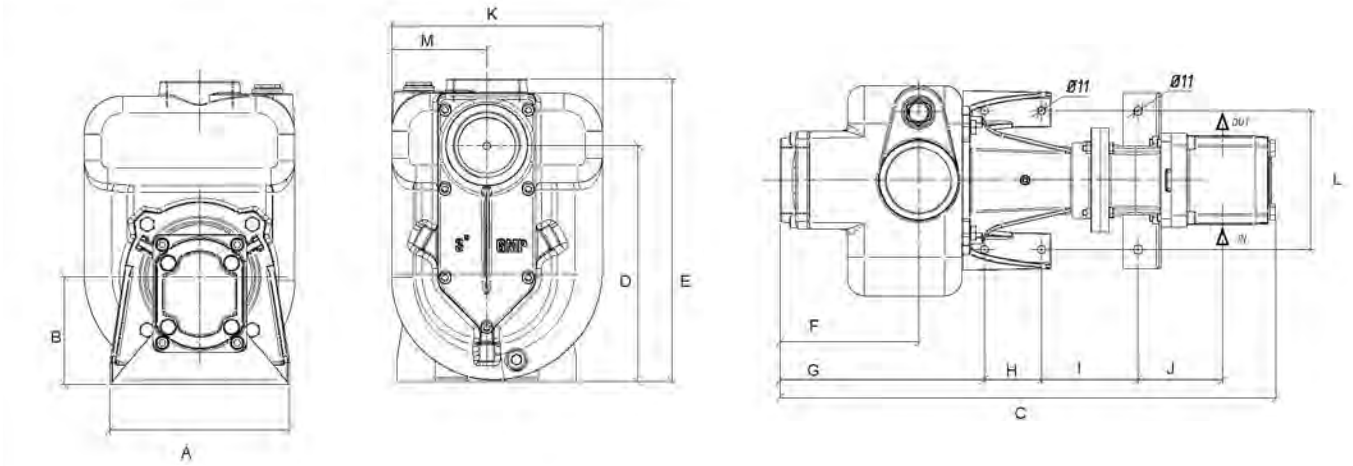

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Motor used in dimension measurements
B2KQ-A/ST	160	122	390	228	294	119.5	168	103		68.5	185	132		PLM20.8
B3KQ-A/ST	160	122	426.5	227.5	295	147.5	204	103		68.5	185	132		PLM20.8
B3XR-A/ST	135	140	650	310	395	181.5	267	75	126.5	110.5	276	182	125	PLM30.34
G3TMK-A/ST	235	140	670	312	395	197.5	287	75	127.5	110.5	285	182	125	PLM30.34
B4KQ-A/ST	235	140	673	280	405	192.5	291.5	75	126.5	110.5	310	182	140	PLM30.34
B4XR-A/ST	230	140	695	311	450	196	308	75			365	182	181	PLM30.34

HYDRAULIC MOTOR DRIVEN PUMP APPLICATION INSTRUCTIONS

HYDRAULIC SYSTEM REQUIREMENTS:

The hydraulic motor driven pump can be operated on either a closed centre or open centre hydraulic system. The maximum system requirement is 31 litres per minute of hydraulic fluid flow for models up to and including B3KQA/ST units. The system requirement for the larger units is 66 litres per minute. Flows less than or greater than this may result in a lower pump speed, lower pump output, and lower pressure delivered by the pump. Flows and pressure exceeding the maximum levels may damage the hydraulic motor and the pumps.

CLOSED CENTRE VERSUS OPEN CENTRE HYDRAULIC SYSTEMS:

An OPEN CENTRE hydraulic system is based on either a vane or gear type hydraulic pump. These pumps have a constant output proportional to the speed of the engine driving them. When this flow is not being used, a valve diverts the flow back to the hydraulic reservoir where it is recirculated through the pump. The term "open centre" is derived from the type of valve used to control an open centre system. The open centre position of the hydraulic valve permits the flow of hydraulic fluid back to the reservoir in the neutral position.

A CLOSED CENTRE system uses a variable displacement piston pump. This type of pump varies its output from zero flow to maximum flow depending on the demands put to it by the system. All this happens without disengaging or changing the speed of the engine driving the pump. The term "closed centre" comes from the fact that the type of valve used to control this system completely shuts off the flow in the neutral position.

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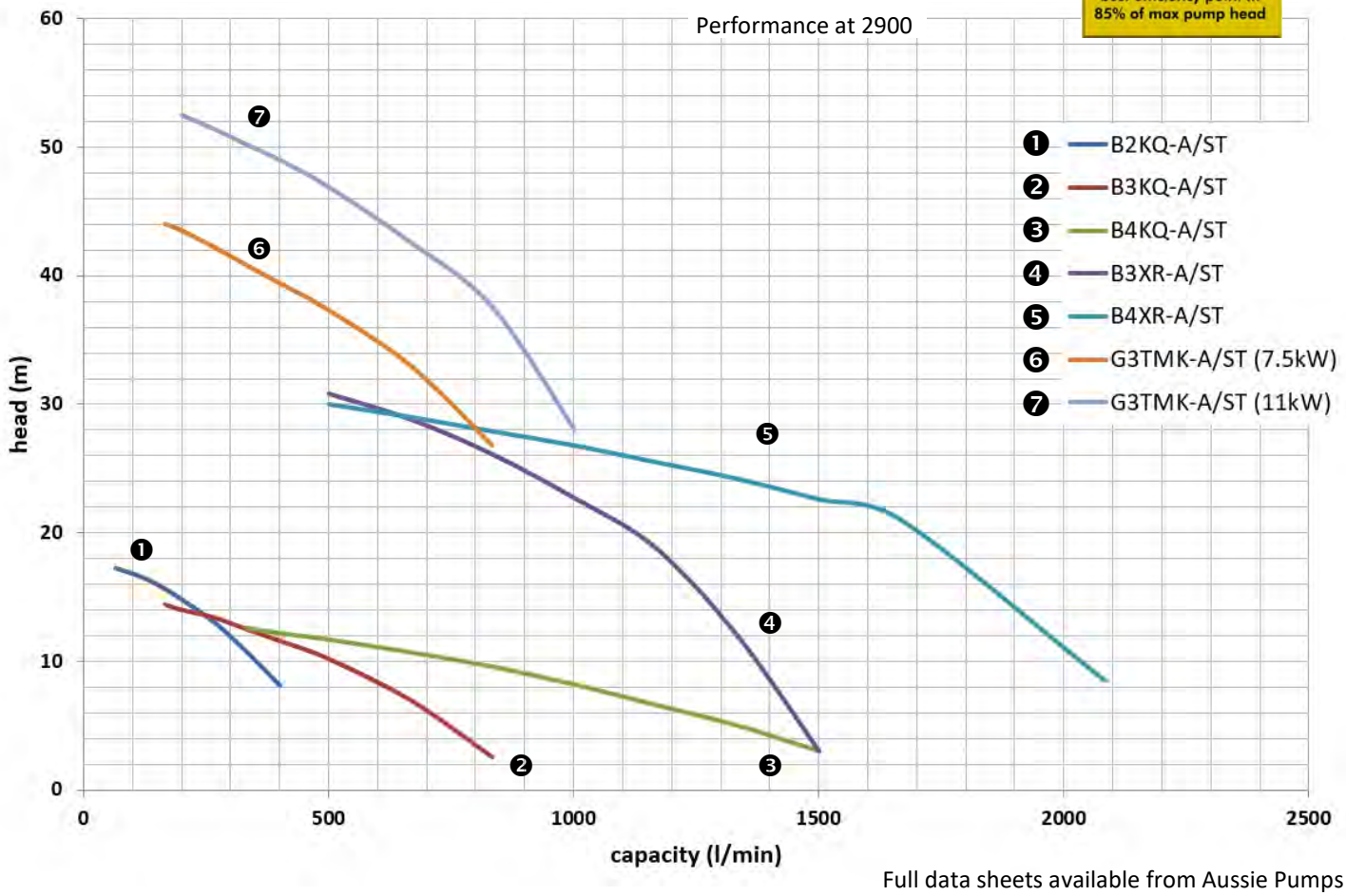
Performance Curves

GOLDEN RULE
Operate pump at the best efficiency point ... 85% of max pump head



Full data sheets available from Aussie Pumps

Optional Accessories:

- Heavy duty suction hoses 2" and 3"
- Medium pressure lay flat delivery hose, working pressure 100 psi
- High flow diesel transfer fuel nozzle
- Carbon ceramic, silicon carbide, tungsten carbide or Viton seals available
- Strainers and couplings

Rejuvenation kits...

Contain gaskets, mech seal, counterface & complete check valve to make servicing these pumps a breeze.

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