

SP Series

SAMengineering

Customised Pump Solutions



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Solids Handling, Self-Priming Centrifugal Pump

The SP offers superior solids handling capability, better pump performance and ease of maintenance for a broad range of industrial, paper, mining and municipal wastewater applications. It is built in specialised alloys up to 904L to suit all applications. Whether handling liquids that contain raw sewage, debris, sludge, or plant waste, there's no other pump that compares to the SP.

Standard Design Features and Options

ELASTOMER CHECK VALVE: Durable, minimises re-priming time and is easily replaceable through top cover.

CHECK VALVE COVER PLATE: Access to check valve without totally draining the casing or disturbing piping. Port also provides access to suction chamber for removal of debris.

SILICON CARBIDE MECHANICAL SEAL: Oil lubricated Silicon Carbide seal faces offer substantially higher resistance to wear and are standard construction. Carbon/Ceramic seals are also offered for most industrial applications.

HEAVY-DUTY CAST IRON BEARING HOUSING: Cartridge-type bearing frame gives rigid shaft support. The proper oil volume results in a cool running bearing housing, assuring longer life whether coupling connected or belt driven.

LIGHTWEIGHT CLEAN-OUT COVER: Direct access to eye of impeller. Eliminates risk of injury due to wrestling with heavy clean-out assemblies. Same size cover (6"- 152mm circular) used on all pump models.

BACK PULL-OUT DESIGN: Rotating assembly along with seal plate can be removed from the casing without disturbing the suction or discharge piping. "Easy to sling" bearing housing makes back pull-out simple. No special tools required.

EXTERNALLY ADJUSTABLE IMPELLER CLEARANCE: Absolutely no shims used in the SP Series design. Adjustments are made externally using jack screws and lock nuts. No draining or disassembly required.



HIGH STRENGTH, 17-4 STAINLESS STEEL TAPERED SHAFT: Results in maximum strength and corrosion resistance while allowing easy removal of the impeller.

Features and Benefits

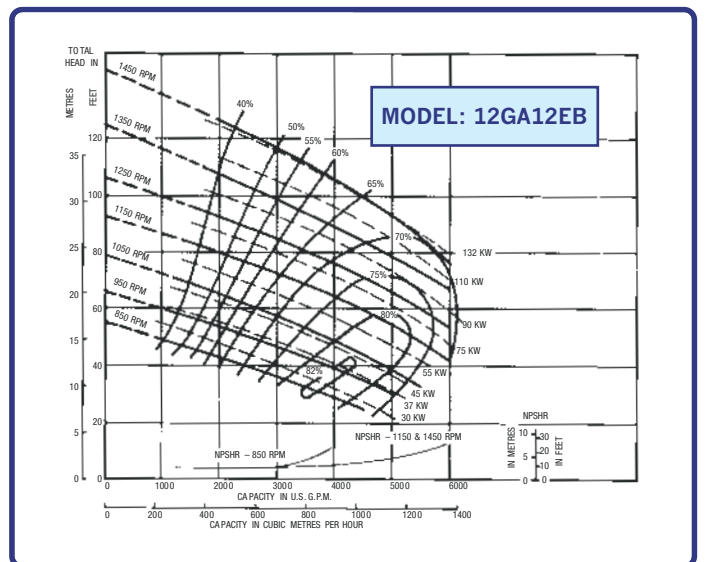
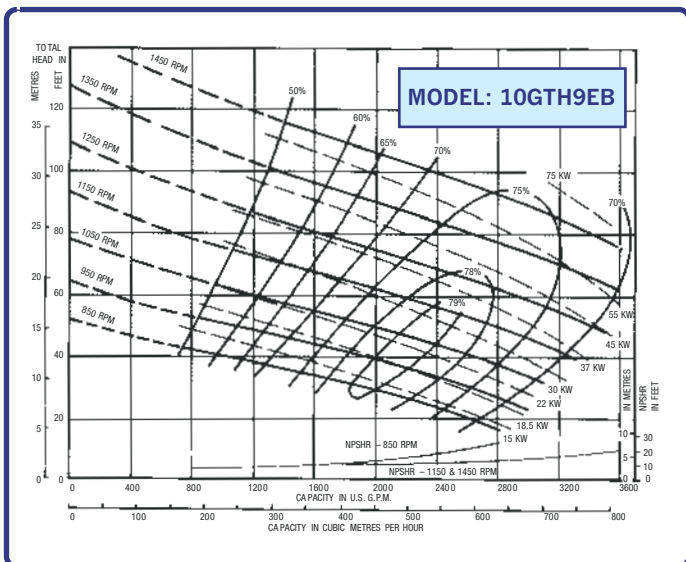
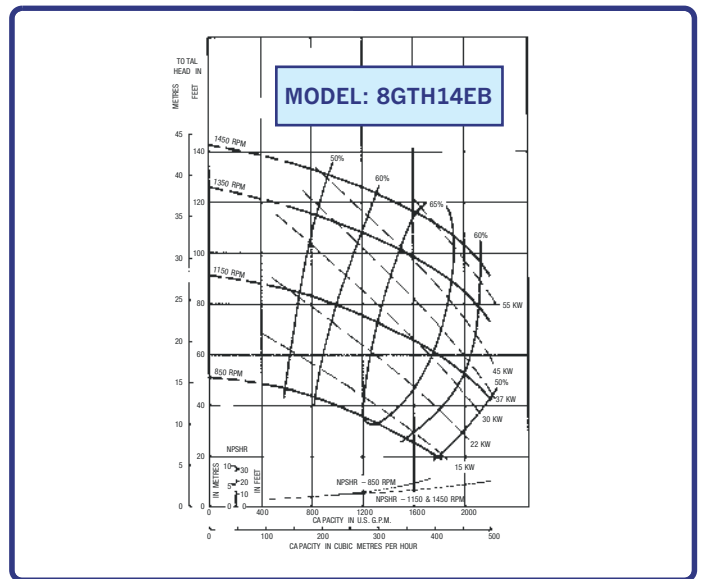
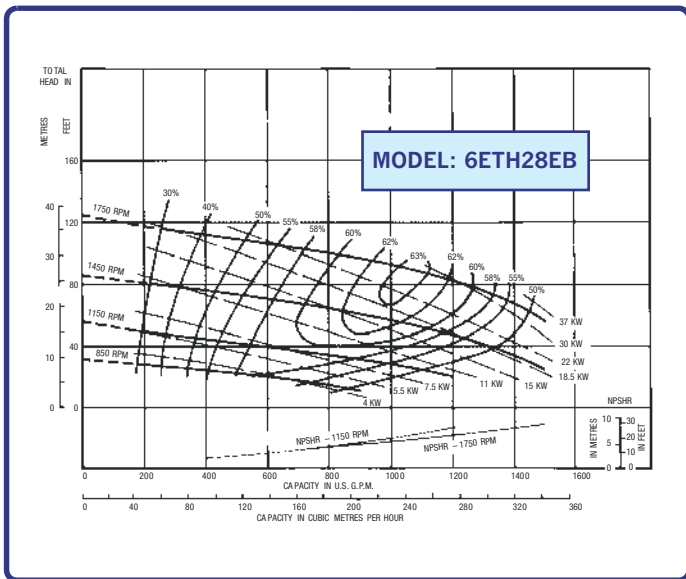
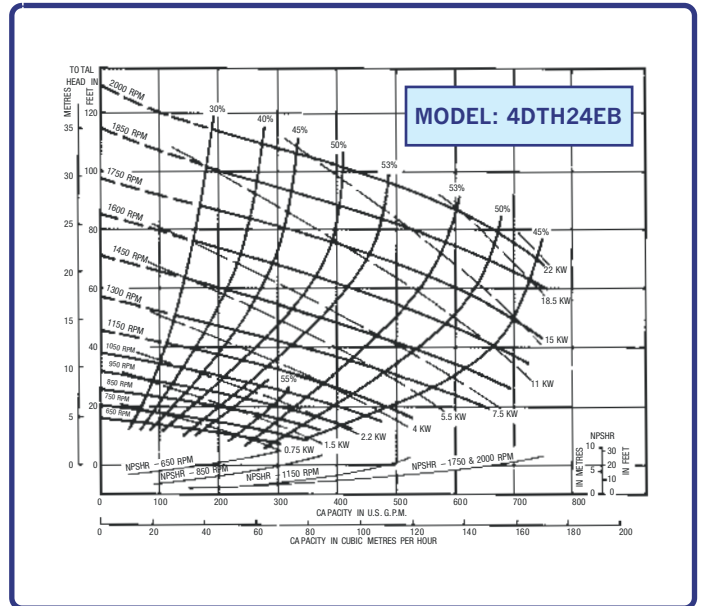
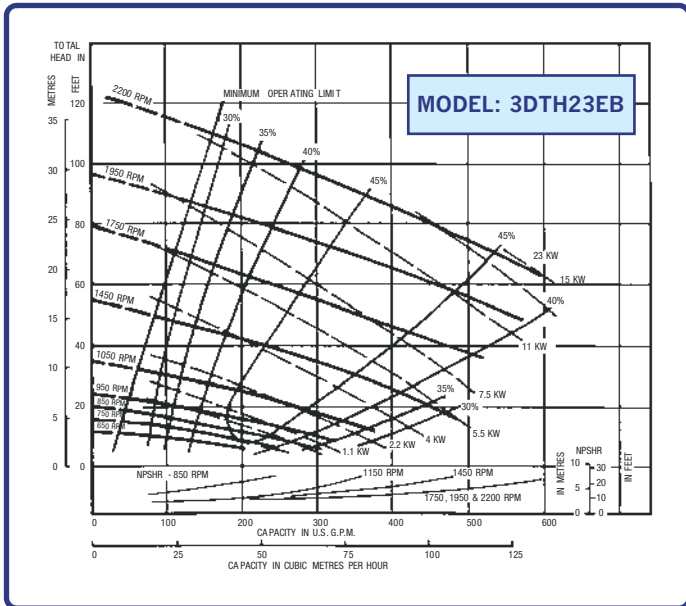
The SP provides:

- Longer pump life
- Lower operating costs
- Greater operating range
- Ease of maintenance
- Greater flows and heads
- Elimination of clogging

SOLIDS HANDLING: The unique, semi open impeller displays superior performance and efficiency in handling up to 76mm sphere solids. Replaceable wear plate and externally adjustable impeller clearance restores high efficiencies and reduces expensive downtime.

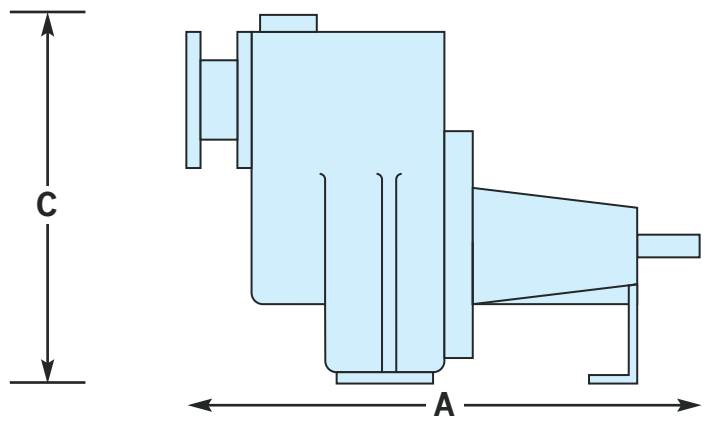
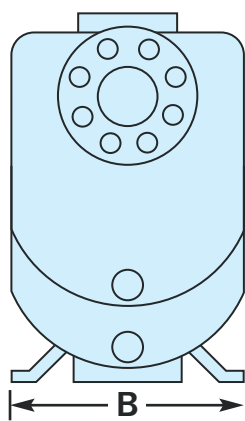
MATERIALS: Available in cast-iron, stainless steel and alloys to suit specific needs. Back pull-out permits easy access for maintenance and leaves piping intact. Cover plate is conveniently located for check-valve access inspection.

SP Series | Variable Speed Performance Curves





The drawings shown are for illustration purposes. Dimensions are typical.



Pump Model	Port Size Flanged (mm)	Impeller Type	Solids Size (mm)	A (mm)	B (mm)	C (mm)
3DTH	76x76	Open	64	984	362	676
4DTH	102x102	Open	76	1019	418	687
6ETH	152x152	Open	76	1084	503	725
8GTH	203x203	Open	76	1157	591	903
10GTH	254x254	Open	76	1375	735	1151
12GA	305x305	Open	76	1632	922	1894