

Pump Features

Solids Handling Impeller

Two-vane, semi-open, solids-handling impeller can handle solids up to 3" (76 mm) in diameter.

Mechanical Cartridge Seal

Oil-lubricated mechanical cartridge seal with stationary and rotating face of silicon carbide is designed for abrasive service.

Removable Rotating Assembly

As a single unit, the rotating assembly can be removed through the removable coverplate.

Easily Removed Coverplate

Coverplate comes standard with two handles for quick and easy access to the pump interior.

With over 25 years of experience in designing and manufacturing reliable solids control equipment for the oil & gas industry, Elgin recognizes the need for reliable and efficient self-priming pumps. Elgin's line of self-priming, solids-handling pumps have been designed to reliably handle a myriad of solids-laden fluids with minimal maintenance.



Based on one of the industry's most field-proven pump configurations, Elgin's line of self-priming solids-handling pumps offer a trouble-free, non-clogging design. The large volute automatically reprimed in a fully open system, without the need for complicated suction or discharge plumbing.

As a self-priming pump, the pump can be installed at heights above the solids-laden fluid being pumped. Service can be performed in-situ, without the use of special tools or disconnecting the suction or discharge plumbing. The dual-vane impeller, seal, wear plate, and flap valve can be easily accessed via the removable coverplate.

Pump Models:	ESS-SPP-T2	ESS-SPP-T3	ESS-SPP-T4
Inlet and Outlet Flange Size:	2" (51 mm) x 2"	3" (76 mm) x 3"	4" (102 mm) x 4"
Max Lifting Head (1850 RPM):	25' (7.6 m)	25' (7.6 m)	25' (7.6 m)
Max Solids Handling:	1.75" (44 mm)	2.5" (64 mm)	3" (76 mm)
Impeller Diameter:	6.25" (159 mm)	8.75" (222 mm)	9.75" (248 mm)
Total Net Weight:	203 lb (92 kg)	404 lb (183 kg)	600 lb (260 kg)
NEMA Motors Available:	10 & 15 hp	15, 20 & 25 hp	25, 30 & 40 hp



ESS-SPP-T2

2" x 2" Solids-handling, self-priming pump.



ESS-SPP-T3

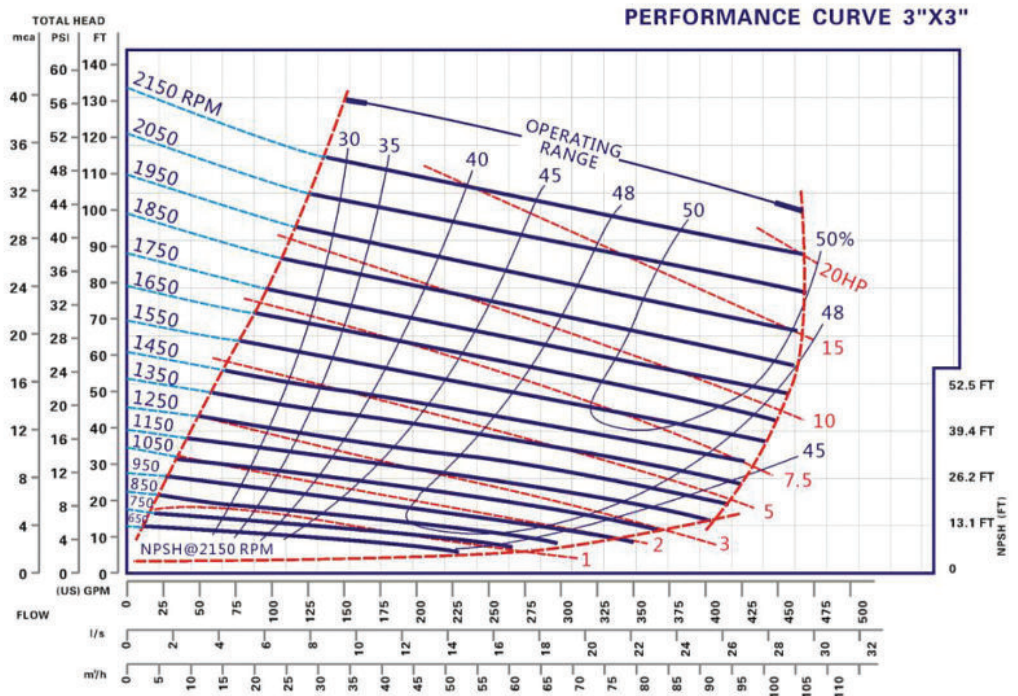
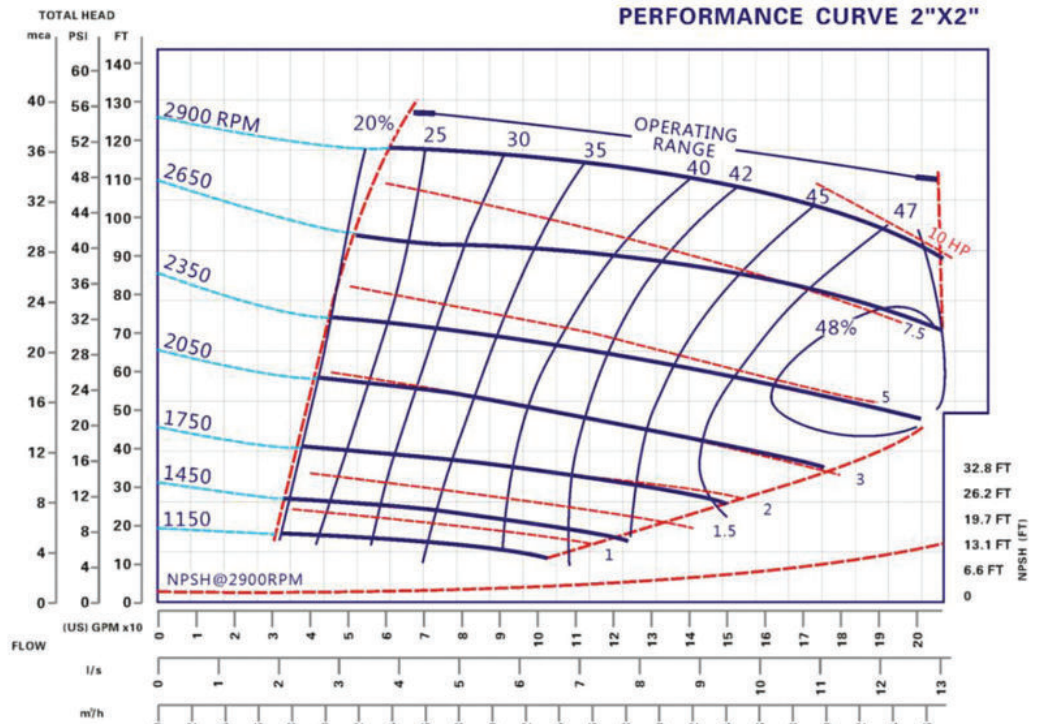
3" x 3" Solids-handling, self-priming pump.



ESS-SPP-T4

4" x 4" Solids-handling, self-priming pump.

Available in 2" (51 mm), 3" (76 mm), and 4" (102 mm), Elgin's self-priming, solids-handling pumps are capable of achieving 1,300 gallons per minute (38 lps) at 25 feet (7.6 m) of head pressure. This can be achieved, even when handling solids up to 3" (76 mm) in diameter.





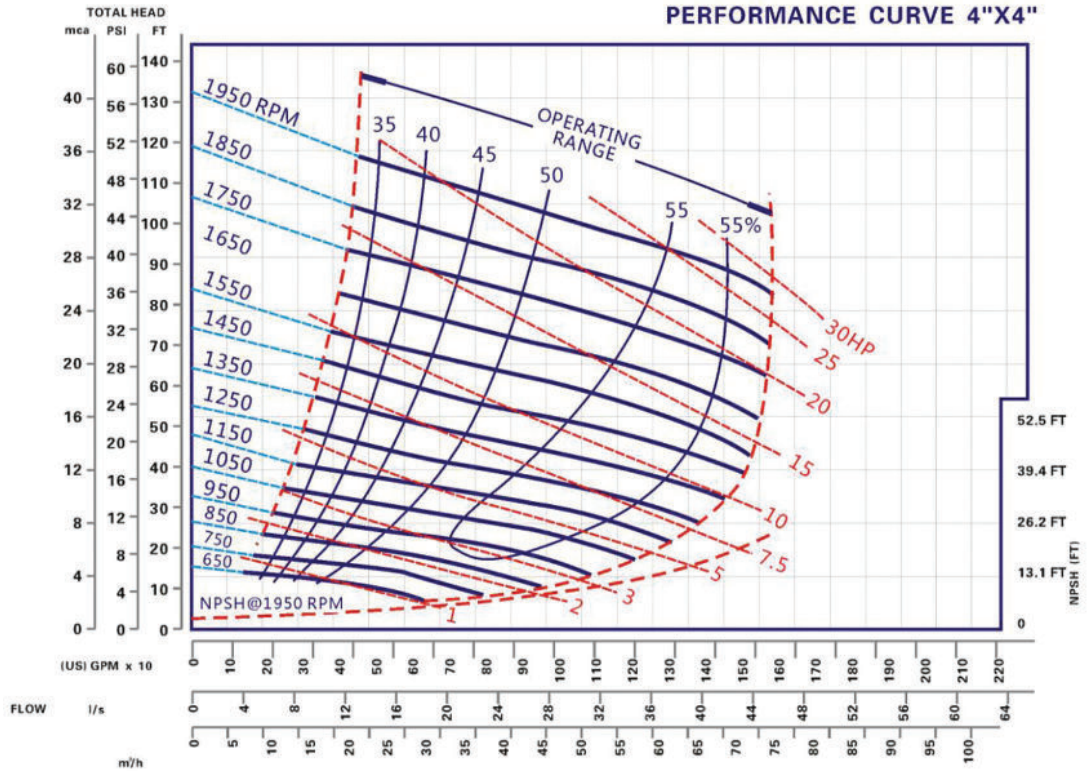
Submersible Trash Pumps

Elgin can also provide a host of submersible trash pumps in hydraulic and electric configurations.



Centrifugal Pumps

Based on the industry's most field-proven centrifugal pumps, Elgin maintains a complete line of Series 118 and 250 centrifugal pumps.



Depending on the application, Elgin's self-priming, solids-handling pumps can be provided in a variety of materials of construction. The table below highlights the standard materials of construction, along with the alternatives available:

Component	Standard Materials	Grade	Alternatives (Available Upon Request)
Casing and Flange:	Cast Iron	ASTM-48 CL30	Austempered Ductile Iron and Stainless Steel (CD4MCu and 316)
Impeller:	Ductile Iron	ASTM 60-40-18	
Wear Plate:	Ductile Iron	ASTM 60-40-18	
Cover & Seal Plate	Cast Iron	ASTM 48-CL30	
Bearing Housing:	Cast Iron	ASTM 48-CL30	
Flap Valve:	Neoprene	N/A	Viton
Sleeve Shaft:	Carbon Steel	SAE 4140 HT	17-4 Stainless
O-Rings:	Buna Rubber	N/A	Viton
Impeller Shaft:	Carbon Steel	SAE 4140 HT	17-4 Stainless
Mechanical Seal:	316 Stainless Steel Body, Viton O-Rings & WC Faces		N/A
Internal Coatings:	N/A	N/A	Epoxy & Ceramic