Pioneer PP1000-30 - 18-inch Diesel Trash Pump Package

The Pioneer PP1000-30 is an 18-inch auto self-priming diesel pump package for high-volume transfer of liquids containing solids up to 4.5 inches. Its factory package listing publishes maximum flow of 19,000 US GPM and maximum head of 220 feet. The package sheet specifies a 3,000-litre fuel tank and gearbox-driven Cummins QSK15 or Cat C13 engine options.

Pioneer PP1000-30 complete diesel package: actual port size, US flow/head maxima and engine alternatives
Pioneer original PP1000-30 package sheet: dimensions, tank, engine alternatives, construction and curve
Pioneer original pump owner manual

Manufacturer	Pioneer Pump
Model	PP1000-30 / PPSK1818S22L71
Package model	PP1000-30
Factory package designation	PPSK1818S22L71/C13 OR QSK15/3000+
Pump end	PP1818S22L71
Drive	Diesel with gearbox
Suction / discharge	18 x 18 in; factory sheet specifies 450 mm Table E connections
Published maximum package flow	19,000 US GPM, factory package webpage
Published maximum package head	220 ft, factory package webpage
Rating basis	Maximum flow and maximum head are separate limits; use the factory curve for the selected operating duty
Solids passage	114 mm / 4.5 in
Factory recommended engine alternatives	Cummins QSK15 with gearbox OR Cat C13 with gearbox; select one configuration
Package operating speed	800-1,200 RPM, factory package sheet
Fuel storage	3,000 litres / approximately 793 US gallons
Overall skid dimensions	7.0 m L x 2.2 m W x 3.2 m H, factory package sheet
Priming system	UltraPrime diaphragm vacuum system, 50 CFM
Impeller	572 mm / 22.5 in, shrouded CA6NM stainless steel
Casing and suction cover	ASTM A536 65-45-12 ductile iron
Shaft	17-4 PH stainless steel
Mechanical seal	Tungsten carbide against silicon carbide; Viton elastomers
Factory performance curve	A6916HQ; variable-speed reference curve, priming losses excluded
Connection planning	This documented package uses 18-inch connections; select the piping arrangement for those actual ports