



DESCRIPTION:

The ALLY is PumpOne's new submersible, electric pump series made with high-grade materials and designed to provide superior efficiency and reliability for those high-demand applications. The ALLY is built to deliver exceptional performance while providing resistance to harsh chemicals and abrasives that can often lead to motor-burnout. Our custom-engineered ControlPanels can be designed, specifically, for your site's needs or you can choose from one of our select panels for your pumping system.



CORROSION RESISTANCE:

The ALLY Pump has been designed with close attention to detail in the design of its High-Density Polyethylene (HDPE) Shroud for superior strength and durability.

- Teflon-fitted stainless steel Grundfos Pump.
- Franklin Electric environmental motor.
- PTFE (Teflon®) Bushings.
- FKM (Viton®) for all o-ring seals.
- Stainless Steel internal screen.

ENHANCED DESIGN:

It's specially shaped HDPE shroud decreases friction and allows the pump to slide easily over internal pipe obstacles.

Designed to withstand the most extreme conditions and chemicals, the Teflon-fitted stainless steel pump end and environmental motor is built to last and American-made.

Internal stainless steel screen prevents large debris from entering the shroud and makes cleaning easy.

Our shrouds have no moving parts, such as small wheels that can break, requiring replacement or can hang up on beads, welds and seams in a riser pipe.

Light weight in comparison to the stainless-steel designs and are cost effective since there are no potential wear parts that could break or need replacing.

Available with designs for horizontal, slope, and vertical applications from 5 to 1200 GPM.



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PUMPONE ELECTRIC PUMPS/MOTORS/CABLES

Our leachate pump is made using **Grundfos pumps coupled to Franklin Electric motors**, both of which have been modified with PTFE bushings and Viton seals. This environmental modification allows our pumps to be used with confidence knowing chemically they will be suitable for harsh environments. This pump & motor combination has been used for decades with great success in most U.S landfill sites.

We have a vast selection of pumps to meet any sites flow requirements.

All the pump assemblies that we offer go through a rigorous QA/QC test prior to shipping which includes being run in a test station to ensure that the pump is performing exactly to the required design point.

We offer a full line of electric powered pumping systems for leachate applications.

Our power cables are made of the highest grade chemically compatible material. Cables are 'non-splice' and thanks to our chosen materials of construction, provides superior protection against nicks, tear or damage when deploying or recovering the pump from the sump or well.

PUMPONE SHROUD

We have paid attention to detail in the design of our pump shrouds based on our field experience as well as our clients' feedback.

PumpOne shrouds are made of HDPE with inlet ports around the circumference. This also includes a stainless-steel screen inside the shroud to protect the pump from solid matter.

Our shroud design includes an anti-torque setup located on the discharge end of the shroud that fits around a keyway attached to the stainless-steel discharge pipe to ensure the assembly will never move or rotate. The discharge end of the shroud is also where the power cable exits. Here you will see we use a strain relief port to prevent the cable from being pulled out of the motor.

The shrouds we supply have three main purposes. First, thanks to the use of HDPE, they slide down a riser assembly easily. Secondly, it acts as a cooling shroud for our motors. And finally, the shroud provides protection to the pump and motor assembly.



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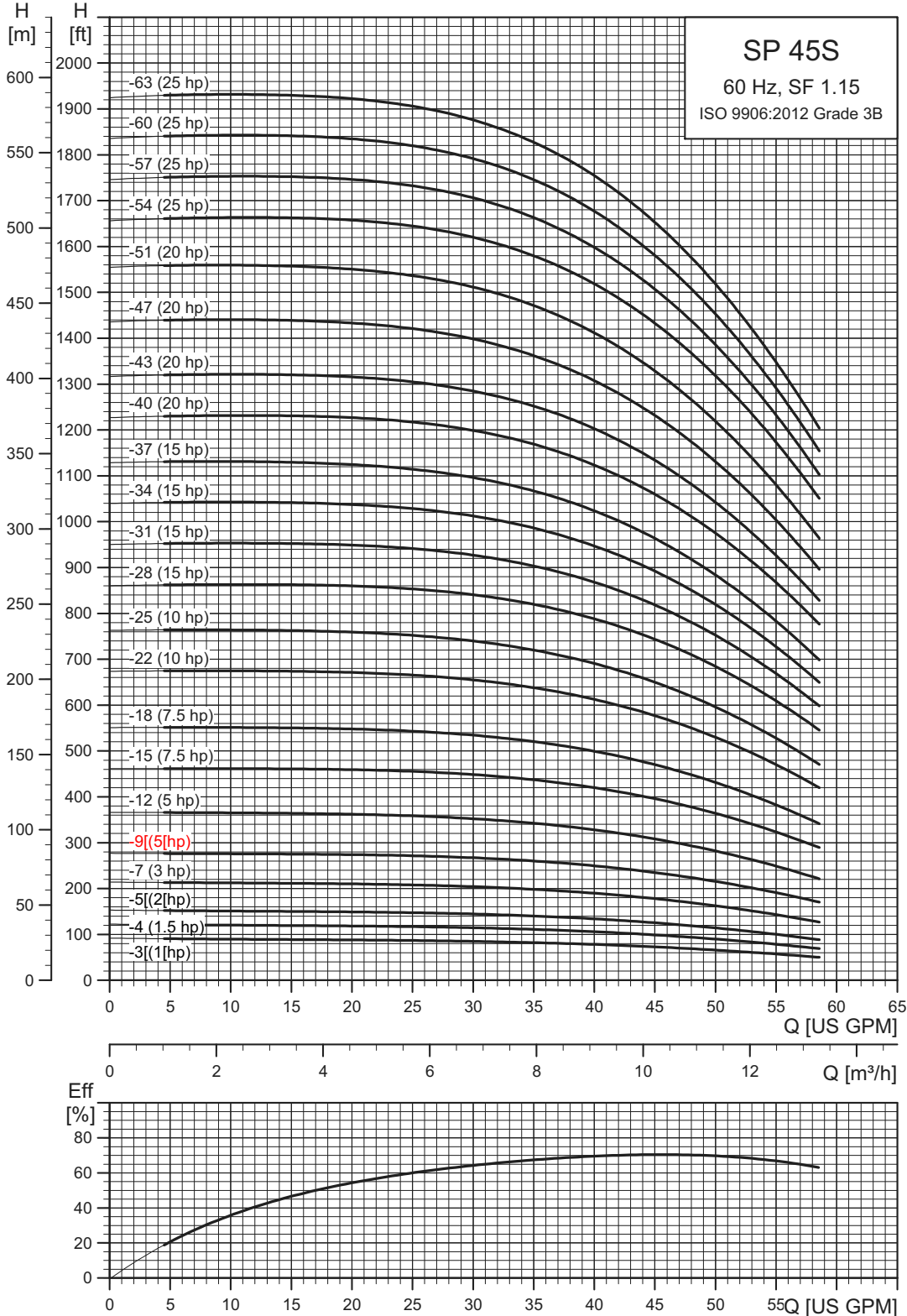
Model 45S Teflon Retrofitted 45 GPM Performance Curve

FLOW RANGE: 32 - 50 GPM

OUTLET SIZE: 2" NPT

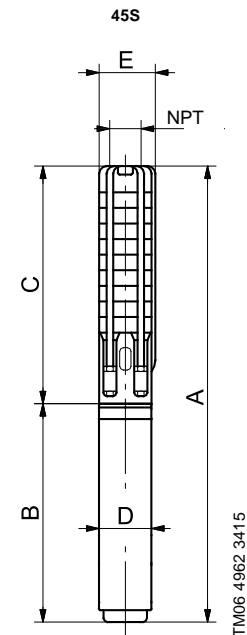
NOMINAL DIA. 4"

Example Pump Curve



Model 45S Teflon Retrofitted 45 GPM Performance Curve

Pump model	Nom. head [ft]	Ph	Volts [V]	Motor [Hp]	Dimensions					Net weight (complete) [lb]	
					A [in. (mm)]	B [in. (mm)]	C [in. (mm)]	D [in. (mm)]	E [in. (mm)]		
45S - Motor dia. 4 inch, 3 wire motor, 60 Hz, rated flow 45 gpm (2" NPT)											
45S10-3	72	1	230	1	■	28.94 (735)	13.67 (347)	15.28 (388)	3.75 (95)	3.98 (101)	31.5
		3	230	1	■	27.76 (705)	12.49 (317)	15.28 (388)	3.75 (95)	3.98 (101)	28.8
		3	460	1	■	27.76 (705)	12.49 (317)	15.28 (388)	3.75 (95)	3.98 (101)	28.6
		3	575	1	■	27.76 (705)	12.49 (317)	15.28 (388)	3.75 (95)	3.98 (101)	28.6
45S15-4	97	1	230	1.5	■	32.49 (825)	15.24 (387)	17.25 (438)	3.75 (95)	3.98 (101)	36.5
		3	230	1.5	■	30.91 (785)	13.67 (347)	17.25 (438)	3.75 (95)	3.98 (101)	33.0
		3	460	1.5	■	30.91 (785)	13.67 (347)	17.25 (438)	3.75 (95)	3.98 (101)	33.0
45S20-5	123	3	575	1.5	■	30.91 (785)	13.67 (347)	17.25 (438)	3.75 (95)	3.98 (101)	32.8
		1	230	2	●	38.78 (985)	19.57 (497)	19.22 (488)	3.75 (95)	3.98 (101)	53.4
		3	230	2	■	34.45 (875)	15.24 (387)	19.22 (488)	3.75 (95)	3.98 (101)	38.0
45S30-7	174	3	460	2	■	34.45 (875)	15.24 (387)	19.22 (488)	3.75 (95)	3.98 (101)	38.2
		3	575	2	■	34.45 (875)	15.24 (387)	19.22 (488)	3.75 (95)	3.98 (101)	38.0
		1	230	3	●	45.87 (1165)	22.72 (577)	23.15 (588)	3.75 (95)	3.98 (101)	64.8
45S50-9	225	3	208-230	3	●	41.15 (1045)	18.00 (457)	23.15 (588)	3.75 (95)	3.98 (101)	51.6
		3	460	3	●	41.15 (1045)	18.00 (457)	23.15 (588)	3.75 (95)	3.98 (101)	51.6
		1	230	5	●	53.75 (1365)	26.66 (677)	27.09 (688)	3.75 (95)	3.98 (101)	78.4
45S50-12	302	3	208-230	5	●	49.81 (1265)	22.72 (577)	27.09 (688)	3.75 (95)	3.98 (101)	67.4
		3	460	5	●	49.81 (1265)	22.72 (577)	27.09 (688)	3.75 (95)	3.98 (101)	67.4
		1	230	5	●	59.65 (1515)	26.66 (677)	33.00 (838)	3.75 (95)	3.98 (101)	82.2
45S75-15	379	3	208-230	5	●	55.71 (1415)	22.72 (577)	33.00 (838)	3.75 (95)	3.98 (101)	71.2
		3	460	5	●	55.71 (1415)	22.72 (577)	33.00 (838)	3.75 (95)	3.98 (101)	71.2
		3	208-230	7.5	●	65.56 (1665)	26.66 (677)	38.90 (988)	3.75 (95)	3.98 (101)	86.1
45S75-18	455	3	460	7.5	●	65.56 (1665)	26.66 (677)	38.90 (988)	3.75 (95)	3.98 (101)	86.1
		3	575	7.5	●	65.56 (1665)	26.66 (677)	38.90 (988)	3.75 (95)	3.98 (101)	86.1
		3	208-230	7.5	●	71.46 (1815)	26.66 (677)	44.81 (1138)	3.75 (95)	3.98 (101)	89.9
45S100-22	558	3	460	7.5	●	71.46 (1815)	26.66 (677)	44.81 (1138)	3.75 (95)	3.98 (101)	89.9
		3	575	7.5	●	71.46 (1815)	26.66 (677)	44.81 (1138)	3.75 (95)	3.98 (101)	89.9
		3	460	10	●	83.27 (2115)	30.60 (777)	52.68 (1338)	3.75 (95)	3.98 (101)	103.8
45S100-25	634	3	575	10	●	83.27 (2115)	30.60 (777)	52.68 (1338)	3.75 (95)	3.98 (101)	103.8
		3	460	10	●	89.18 (2265)	30.60 (777)	58.59 (1488)	3.75 (95)	3.98 (101)	107.7
		3	575	10	●	89.18 (2265)	30.60 (777)	58.59 (1488)	3.75 (95)	3.98 (101)	107.7



E = Maximum diameter of pump including cable guard and motor.

Notes:
Control box is required for 3-wire, single-phase applications. Data does not include control box. - 1999 (E) Annex A. Minimum submergence is 2 feet.