

MOTOR SPECIFICATIONS

Motor Design	NEMA design B, squirrel cage induction, air filled
Motor Type	Enclosed submersible, IP 68
Maximum submergence	65 feet (20m)
Insulation Class	Class F, rated at 155° C
Motor Protection	Bi-metallic Thermal Switch
Bi-Metallic Temp Trip	130° C ± 5° C
Service Factor	1.15
Max. Liquid Temperature	104°F (40°C)
Voltage Tolerance	± 10% from nominal
MSHA Approval	2G-3018



MOTOR DATA, 60Hz

Model	Phase	Output Power BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/Speed (rpm)
P20CE	1	1.5	120	13	133.9	T	.78	.76	2/3450
			230	4.8	49.6	P	.78	.76	2/3450
	3	1.5	230	4.8	49.6	P	.78	.76	2/3450
			460	2.4	24.8	P	.78	.76	2/3450
			575	2.2	22.7	R	.78	.76	2/3450

MATERIALS OF CONSTRUCTION

Upper Motor Lid	356-T6 Aluminum
Motor Housing	356-T6 Aluminum
Oil Chamber	AISI 304 Stainless Steel
Strainer	AISI 304 Stainless Steel
Volute	356-T6 Aluminum - Rubber Lined
External Hardware	AISI 304 Stainless Steel
O-Rings	NBR
Motor Shaft	AISI 416 Stainless Steel
Upper Bearing	Deep groove ball bearing, double sealed
Lower Bearing	Double row angular contact ball bearing, double shielded
Shaft Seal	SiC/SiC
Impeller	AISI 316 Stainless Steel

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (without cable)	41 lbs (18.5kg)
Discharge size, standard	2 inch NPT male vertical
Strainer Opening	6 mm

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE *	LENGTH *	OUTER JACKET
P20CE	1Ø-120V	Drill Cord SOOW 14/5	Per MSHA Approval	CPE, Heavy Duty
	1Ø-230V	Drill Cord SOOW 14/5	Per MSHA Approval	CPE, Heavy Duty
	3Ø-230V	Drill Cord SOOW 14/5	Per MSHA Approval	CPE, Heavy Duty
	3Ø-460V	Drill Cord SOOW 14/5	Per MSHA Approval	CPE, Heavy Duty
	3Ø-575V	Drill Cord SOOW 14/5	Per MSHA Approval	CPE, Heavy Duty

* Cable size and length per MSHA approval.





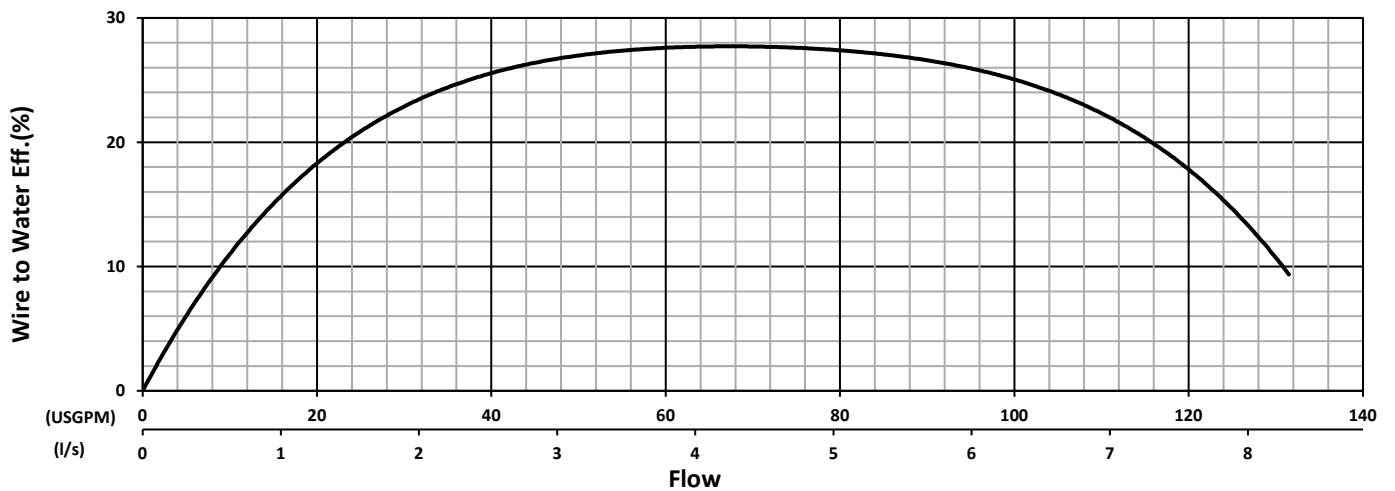
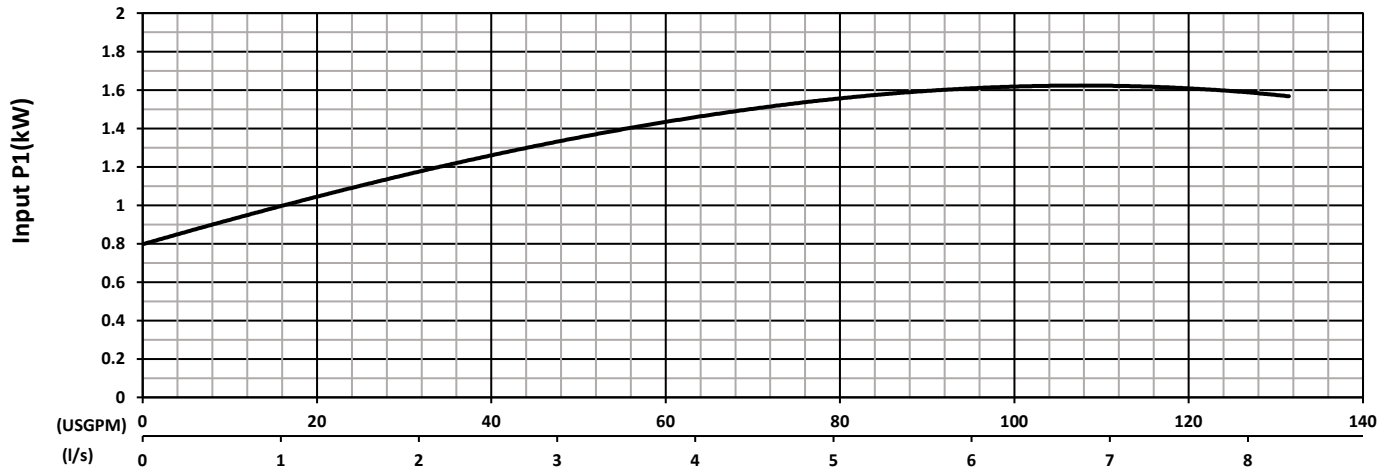
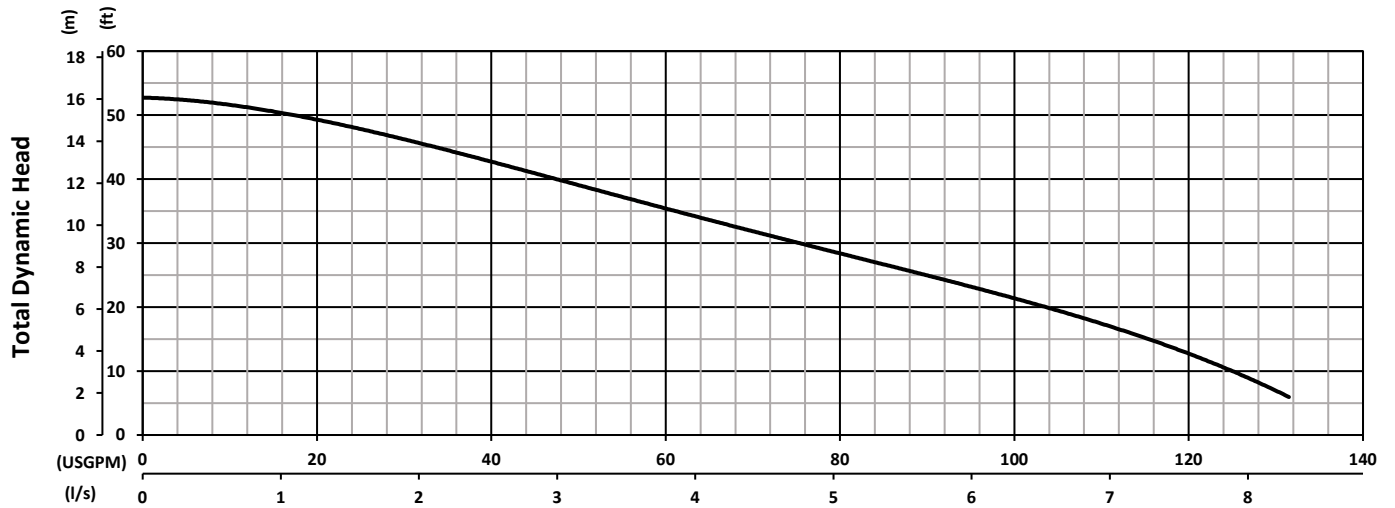
PERFORMANCE CURVE

Mine Dewatering Pumps P20CE

Dwg: DS-A16-003

Rev: 4

Date: 10/3/2019



Test Standard : HI 11.6 Gr 3B
 Tested with water at 20°C

Dual Units

Frequency 60 Hz
 Pump Speed 3450 RPM
 Impeller 115mm

Specifications subject to change without notice