

### MOTOR SPECIFICATIONS

<b>Motor Design</b>	NEMA design B, squirrel cage induction, air filled
<b>Motor Type</b>	Enclosed submersible, IP 68
<b>Maximum submergence</b>	65 feet (20m)
<b>Insulation Class</b>	Class F, rated at 155° C
<b>Motor Protection</b>	Bi-metallic Thermal Switch
<b>Bi-Metallic Temp Trip</b>	130° C ± 5° C
<b>Service Factor</b>	1.15
<b>Max. Liquid Temperature</b>	104°F (40°C)
<b>Voltage Tolerance</b>	± 10% from nominal
<b>MSHA Approval</b>	2G-3142A-1



### 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)
P70CE	3	28	460	39	260	J	0.86	0.89	2/3450
			575	30	200	J	0.86	0.89	2/3450
			950	20	134	J	0.86	0.89	2/3450

### MATERIALS OF CONSTRUCTION

Material	Standard	High chrome
Upper Motor Lid	356-T6 Aluminum	356-T6 Aluminum
Motor Housing	356-T6 Aluminum	356-T6 Aluminum
Lower Seal Housing	AISI 304 Stainless Steel	ASTM A532 Class III Type Chromium
Volute	356-T6 Aluminum - Rubber Lined	356-T6 Aluminum - Polyurethane Lined
External Hardware	AISI 304 Stainless Steel	AISI 304 Stainless Steel
O-Rings	NBR	NBR
Motor Shaft	AISI 416 Stainless Steel	AISI 416 Stainless Steel
Upper Bearing	Deep groove ball bearing, double sealed	Deep groove ball bearing, double sealed
Lower Bearing	Double row angular contact ball bearing, double shielded	Double row angular contact ball bearing, double shielded
Upper Shaft Seal	Carbon/Ceramic	Carbon/Ceramic
Lower Shaft Seal	SiC/SiC	SiC/SiC
Impeller HH	AISI 316 Stainless Steel	ASTM A532 Class III Type Chromium
Impeller HV	17-4PH Stainless Steel	ASTM A532 Class III Type Chromium

### DIMENSIONS, WEIGHT, AND MISC.

<b>Pump weight (without cable)</b>	326 lbs (147.9kg)
<b>Discharge size, HH</b>	4 inch NPT male vertical
<b>Discharge size, HV</b>	6 inch NPT male vertical
<b>Strainer Opening</b>	9mmX22mm

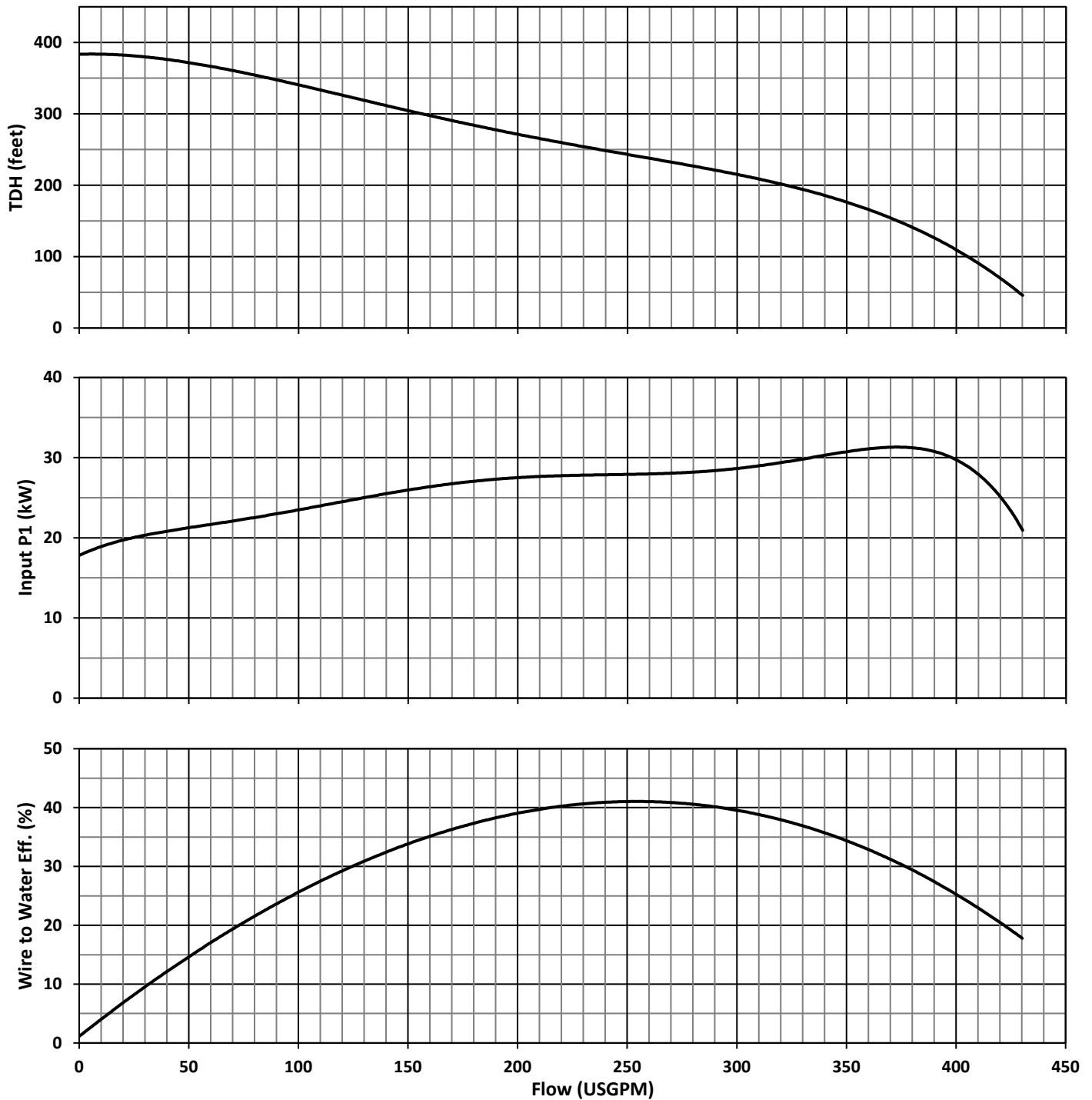
### CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE *	LENGTH *	OUTER JACKET
P70CE	3Ø-460V	6/3 G-GC, 4/3 G-GC, 2/3 G-GC	Per MSHA Approval	CPE, Heavy Duty
	3Ø-575V	6/3 G-GC, 4/3 G-GC, 2/3 G-GC	Per MSHA Approval	CPE, Heavy Duty
	3Ø-950V	6/3 G-GC, 4/3 G-GC, 2/3 SHD-GC	Per MSHA Approval	CPE, Heavy Duty

\* Cable size and length per MSHA approval.



Specifications subject to change without notice



**Pump Performance Test - US Units**

Test Standard : HI 11.6 Gr 3B  
 Tested with water at 20°C  
 Frequency            60 Hz  
 Pump Speed         3450 RPM  
 Impeller             Ø200mm

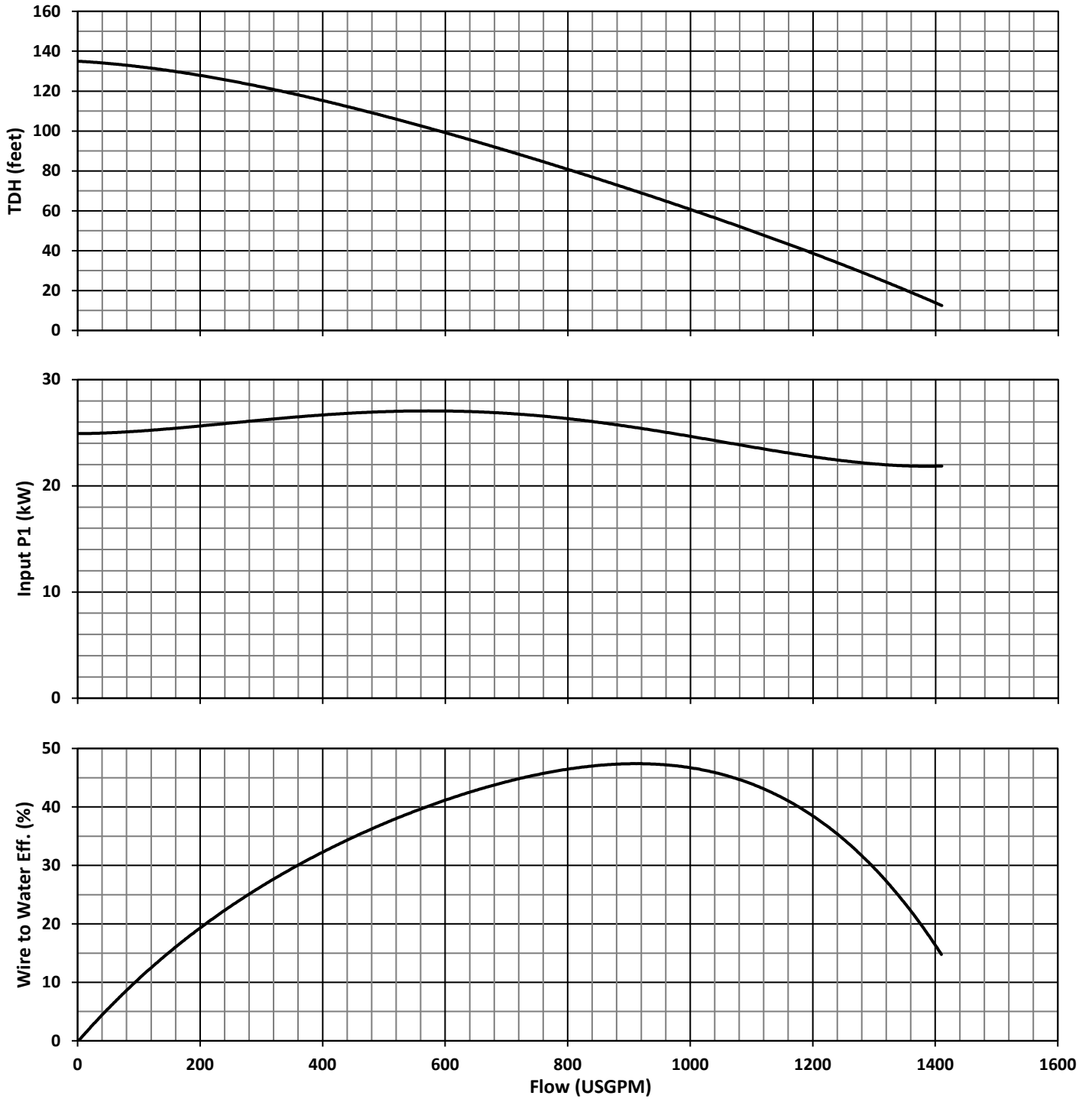
Specifications subject to change without notice



# PERFORMANCE CURVE

# Mine Dewatering Pumps P70CE HV

Dwg: DS-A16-031 Rev: 3 Date: 11/7/2016



### Pump Performance Test - US Units

Test Standard : HI 11.6 Gr 3B  
Tested with water at 20°C  
Frequency 60 Hz  
Pump Speed 3450 RPM  
Impeller Ø161mm

Specifications subject to change without notice



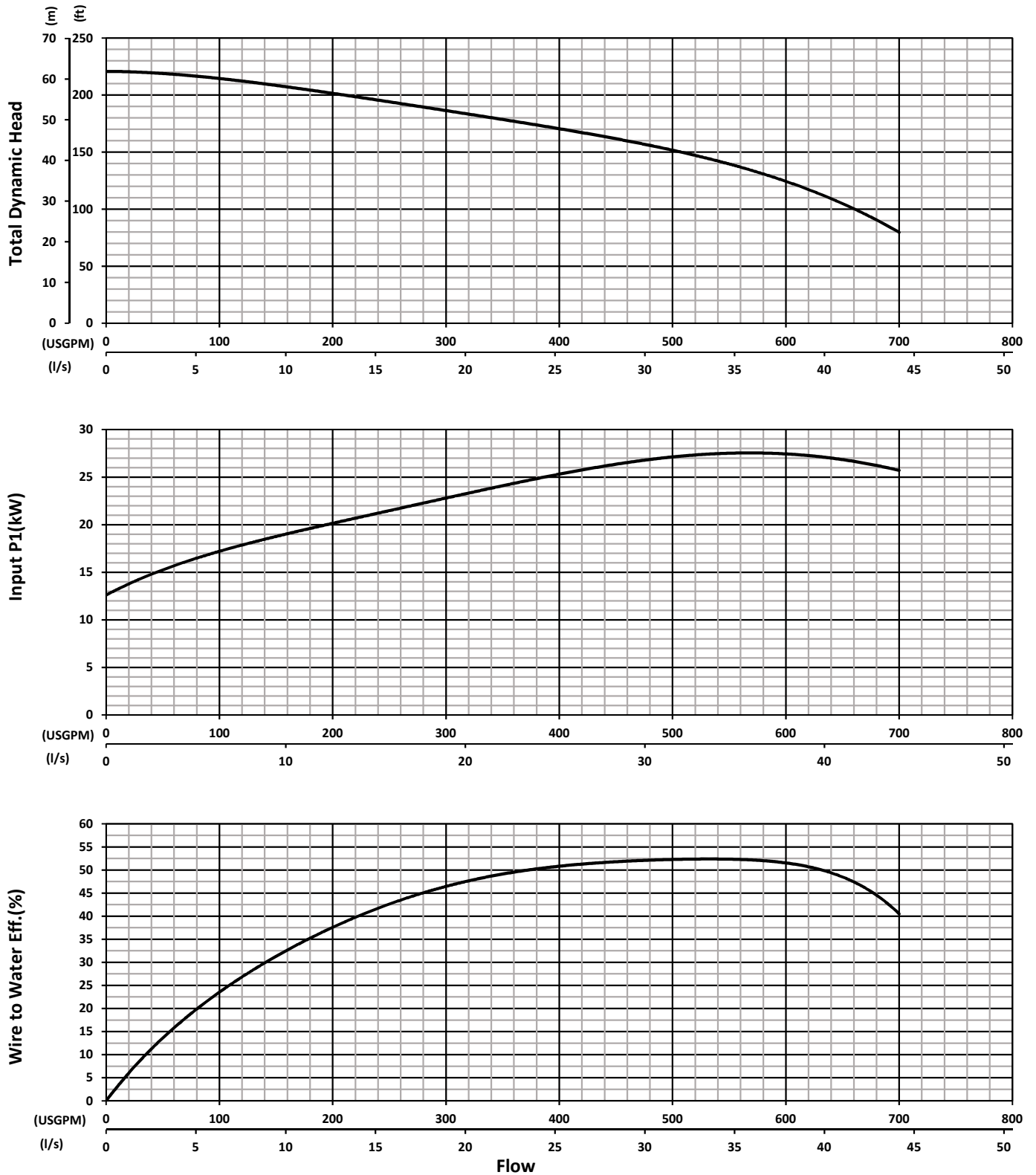
# PERFORMANCE CURVE

# Mine Dewatering Pumps P70CE MR

Dwg: DS-A16-129

Rev: 1

Date: 5/16/2019



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

### Pump Performance Test - Dual Units

Frequency 60 Hz  
Pump Speed 3450 RPM  
Impeller Ø206mm

Specifications subject to change without notice