

TECHNICAL DATA**Mine Dewatering Pumps SX4500 HH/HV/MR V2**

Dwg: DS-A16-053 Rev: 6 Date: 12/20

MOTOR SPECIFICATIONS

Motor Design	NEMA design B, squirrel cage induction, air filled
Motor Type	Enclosed submersible, IP 68
Maximum Submergence	65 feet (20m)
Minimum Submergence	3 feet (0.9m)
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-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)
SX4500	3	45	460	52	290	F	0.89	0.89	2/3450
			575	41	232	F	0.89	0.89	2/3450
			950	25	140.42	F	0.89	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	356-T6 Aluminum	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(s)	Two heavy duty angular contact ball bearings	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
Impeller MR	AISI 316 Stainless Steel	ASTM A532 Class III Type Chromium

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (without cable)	345 lbs (156.5kg)
Discharge size, HH	4 inch NPT male vertical
Discharge size, HV	6 inch NPT male vertical
Discharge size, MR	4 inch NPT male vertical / 6 inch NPT male vertical

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE *	LENGTH *	OUTER JACKET
SX4500	3Ø-460V	6/3, 4/3, 2/3 G-GC	Per MSHA Approval	CPE, Heavy Duty
	3Ø-575V	6/3, 4/3, 2/3 G-GC	Per MSHA Approval	CPE, Heavy Duty
	3Ø-950V	6/3, 4/3, 2/3 SHD-GC	Per MSHA Approval	CPE, Heavy Duty

* Cable size and length per MSHA approval.



Specifications subject to change without notice

Industrial Flow Solutions Operating, LLC • 104 John W Murphy Drive, New Haven, CT 06513, USA • 860-631-3618 • www.flowsolutions.com



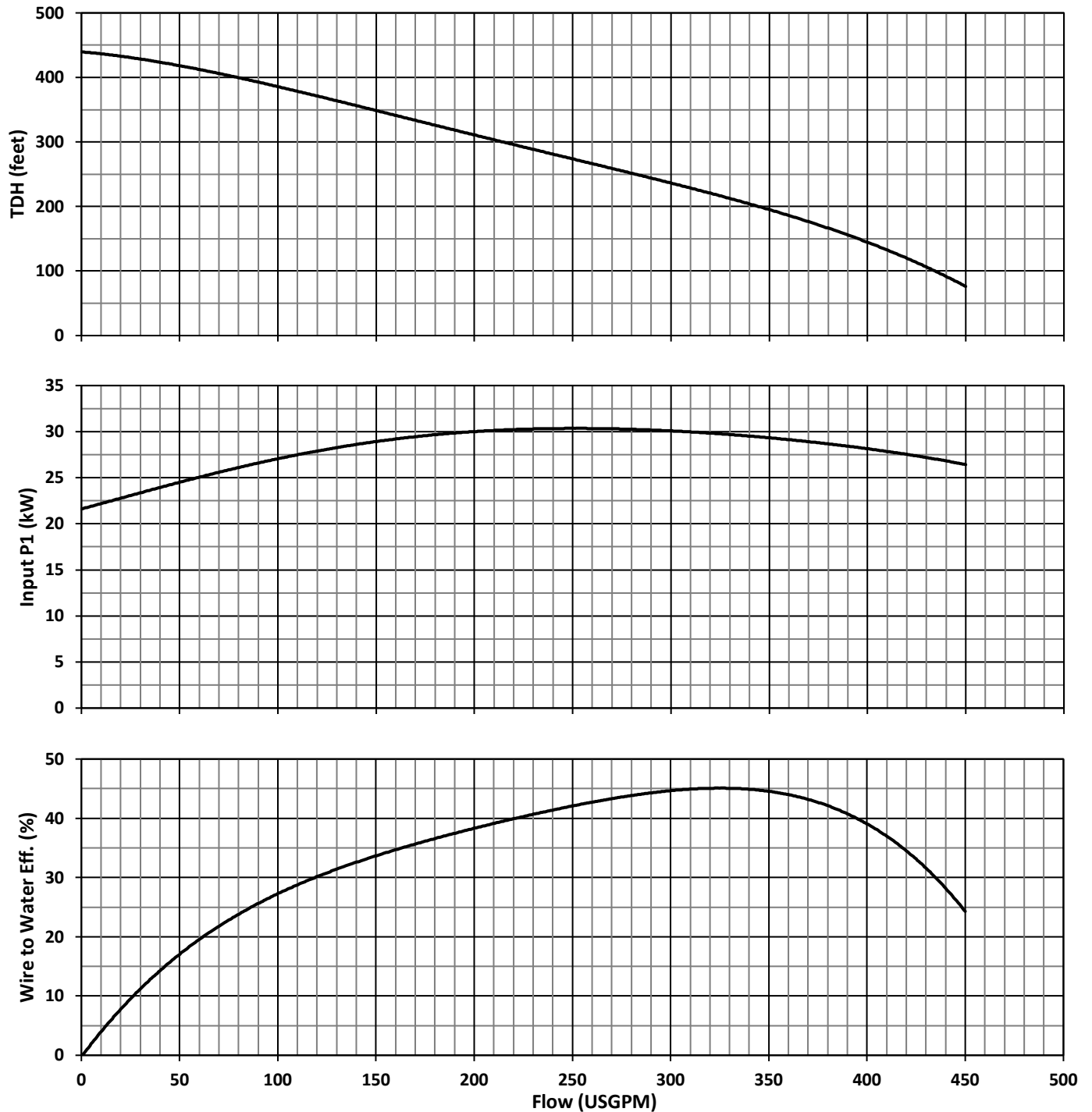
PERFORMANCE CURVE

Mine Dewatering Pumps SX4500 HH

Dwg: DS-A16-069

Rev: 3

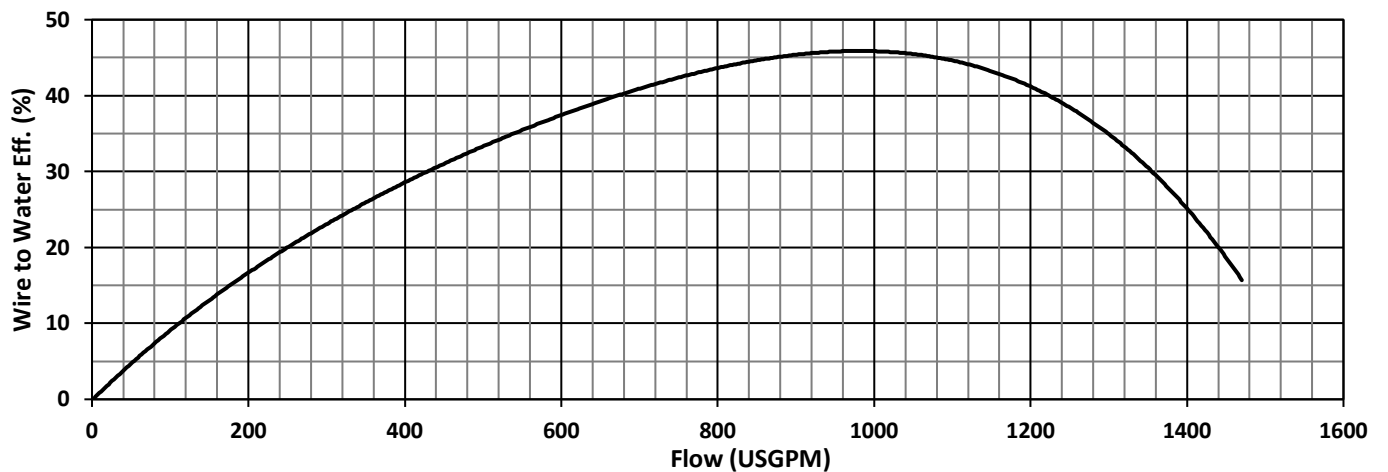
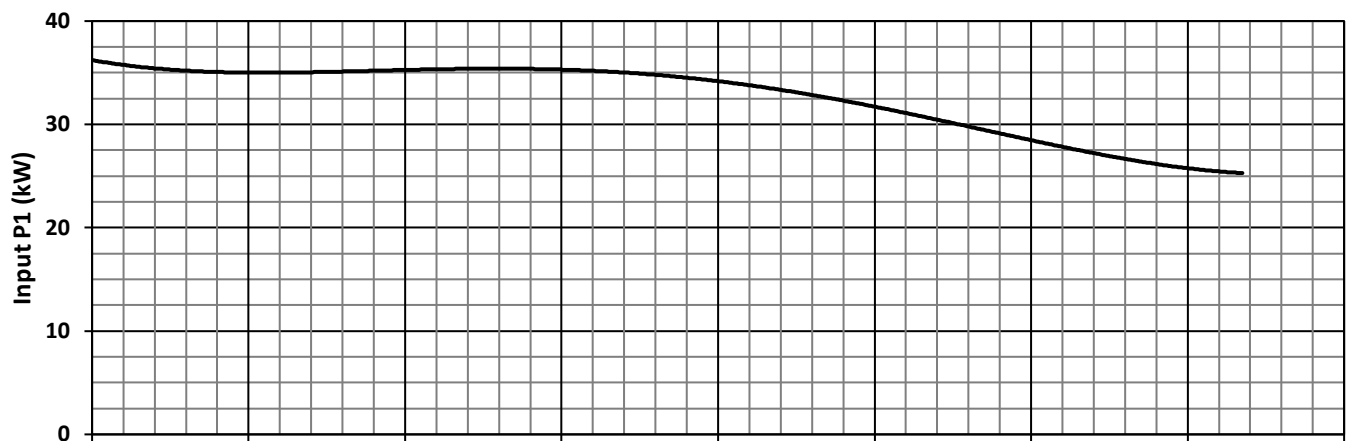
Date: 11/7/2016



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 Ø217mm

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 Ø182mm

Specifications subject to change without notice



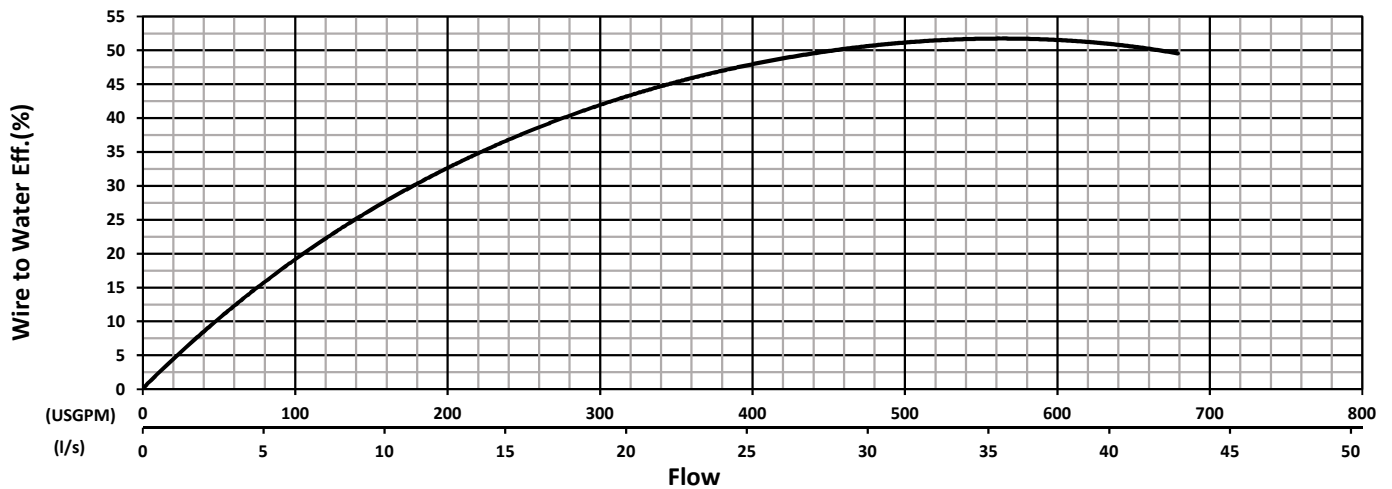
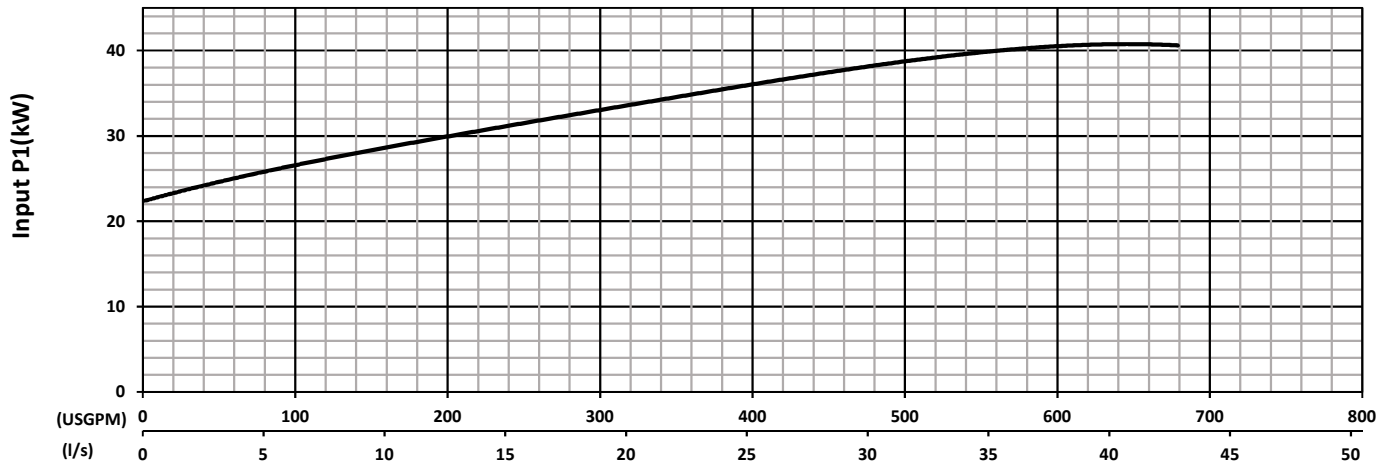
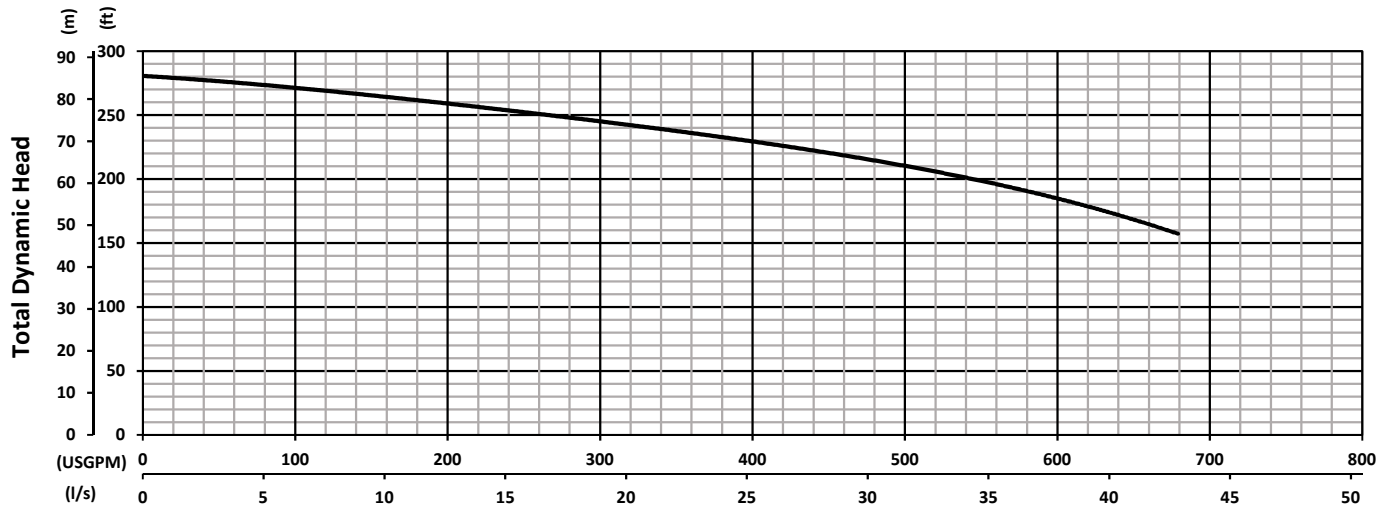
PERFORMANCE CURVE

Mine Dewatering Pumps SX4500MR

Dwg: DS-A16-130

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 Ø225mm

Specifications subject to change without notice