

NOTES:

- 1) DIMENSIONS IN INCHES.
- 2) CONTRACTOR TO LOCATE AND INSTALL INLET HUB IN FIELD.
- 3) OPTIONAL EQUIPMENT SHOWN
- 4) THIS IS A TYPICAL INSTALLATION DRAWING NOT TO BE USED FOR CONSTRUCTION

STANDARD TOLERANCES (UNLESS OTHERWISE SPECIFIED)				
±1/64	±1/64	±1/2'	±.01	±.005
WHOLE NO.	FRACTIONS	ANGLES	2 PLACE DEC.	3 PLACE DEC.
JOB/CUST.	PATT. NO.	MATERIAL:		WEIGHT:
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		DATE:	TITLE:	SCALE:
 ABS PUMPS, INC. 140 PONDVIEW DR. MERIDEN, CONNECTICUT 06450-7156 (203)238-2700 FAX(203)238-0738		10/99	PIRANHA DUPLEX	NTS
		DWT	GUIDE RAIL SYSTEM	SHEET
		DWT	DWG NO.	1 OF 1
		DWT	P99010	REV.
PRODUCT CODE: PIRANHA			CAD CODE: P99010.DWG	A

TECHNICAL DATA**PIRANHA****S20/2W, S20/2**

Dwg. DS-P01-019 Rev: B Date: 12/06

Section Piranha Tab "S" Series Page

STANDARD & EXPLOSION PROOF**MOTOR SPECIFICATIONS**

Motor Design	NEMA design B, squirrel cage induction, air filled
Motor Type	Enclosed submersible
Insulation Class	Class F, rated at 279° F (155° C)
Motor Protection	Oil Chamber Moisture Detector, bimetallic switches embedded in each phase for thermal overload protection.
Bimetallic Temp Trip	234° F ± 9° (130° C ± 5° C)
Service Factor	1.0
Voltage Tolerance	± 10% from nominal
Approvals	UL, CSA, FM explosionproof (Class I, Div. I, Groups C & D)

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)
S20/2W*	1	2.4	208	11.9	32.5	A	0.99	73.1	2/3345
S20/2W*	1	2.4	230	10.8	29.4	A	0.99	73.1	2/3345
S20/2	3	2.4	208	8.0	42.6	G	0.84	74.5	2/3395
S20/2	3	2.4	230	7.2	38.5	G	0.84	74.5	2/3395
S20/2	3	2.4	460	3.6	19.2	G	0.84	74.5	2/3395
S20/2	3	2.4	575	2.9	15.4	G	0.84	74.5	2/3395

*Requires external start kit mounted in the control panel

MATERIALS of CONSTRUCTION

Motor Housing	Cast Iron ASTM A48 Class 30
Cable Cap	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
Oil Chamber	Cast Iron ASTM A48 Class 30
External Hardware	AISI 304 Stainless Steel
O-Rings	Buna-N
Motor Shaft	AISI 420 Stainless Steel
Cutter Disc Assembly	Chrome Molybdenum Cobalt Tool Steel 58-62 Rockwell "C"
Upper Bearing	Single row ball bearing.
Lower Bearing(s)	Single row ball bearing.
Upper Shaft Seal	Buna N Lip Seal
Lower Shaft Seal	Silicon Carbide
Impeller	Cast Iron, Open Multi-vane

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (lb.)	81
Pump weight (lb.) (explosion proof)	82
Maximum submergence (feet)	33
Discharge size, standard	1¼ Inch
Discharge thread type	Female NPT
Maximum temp. of pumped fluid	72° F (40° C)

CABLE SPECIFICATIONS

MODEL	POWER CABLE Quantity, Type	LENGTH, Feet
S20/2W	14/7 Type SOW-A	32
S20/2D	14/7 Type SOW-A	32

Power cable suitable for all standard voltages listed in "MOTOR DATA" section.



Pump performance curves PIRANHA S D 60 HZ

Curve number

Reference curve
PIRANHA S D

Discharge
G1¼"

Frequency
60 Hz

Density
62.428 lb/ft³

Viscosity
0.000016813 ft²/s

Testnorm
Hydraulic Institute

Rated speed
3395 rpm

Date
2011-06-02

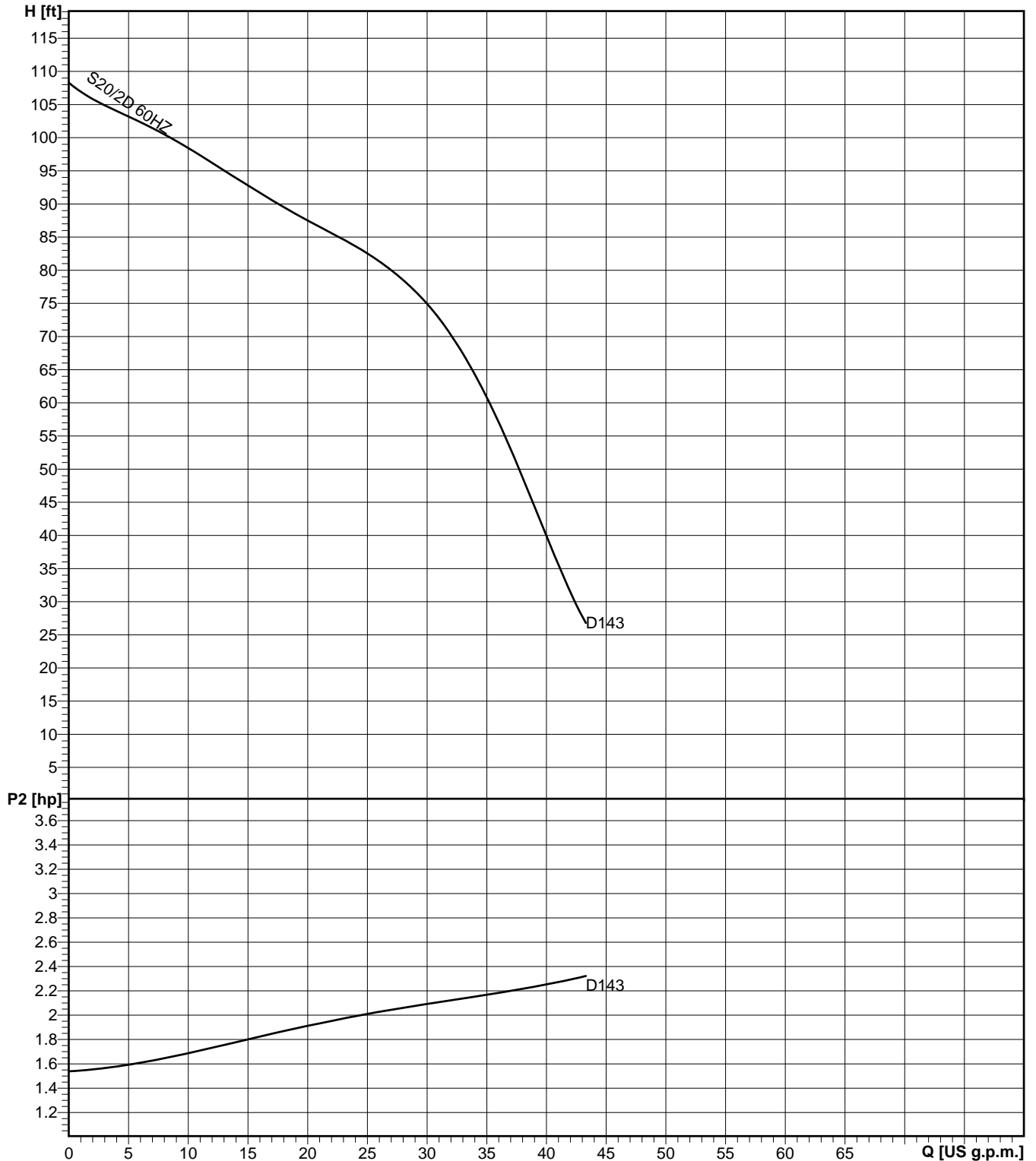
Flow
39.2 US g.p.m.

Head
43.5 ft

Rated power
2.24 hp

Hydraulic efficiency
19.3 %

NPSH



Impeller size
143 mm

N° of vanes
4

Impeller
Macerator

Solid size

Revision 2010-09-28