

PARTS LIST		
KEY	ITEM	DESCRIPTION
1	INLET	4" FF 150#
2	BASKET STRAINER	4" CAST IRON W/ STAINLESS STEEL BASKET
3	PUMP	GOULDS: 12AI2K9D0 220GPM @ 80TDH 7.5HP TEFC MOTOR
4	SKID	EPOXY COATED CARBON STEEL
5	CONTROL PANEL	NEMA 4X ENCLOSURE MAIN POWER DISCONNECT MAIN POWER LED INDICATOR PUMP H-O-A SWITCH PUMP RUNNING LED INDICATOR PURGE H-O-A SWITCH SYSTEM PURGING LED INDICATOR ALARM LED INDICATOR 460VAC TO 120VAC TRANSFORMER PUMP CONTACTOR AND OVERLOAD PROGRAMMABLE PURGE CONTROLLER REMOTE START/STOP TERMINALS (24VDC) REMOTE PURGE TERMINALS (24VDC)
6	SEPARATOR	XFT-0250
7	MOTORIZED PURGE	1-1/2" FPT FULL PORT 120VAC MOTORIZED BALL VALVE
8	DISCHARGE	2-1/2" RF 150#

DRAWN	RB	4/23/2020	J.L. WINGERT CO.
CHECKED			
QA			TITLE
MFG			JLW 220 GPM @ 80TDH SEPARATOR SYSTEM - SUBMITTAL
APPROVED			SIZE
			C
			DWG NO
			CT-0220-80-MPK/BS
			SCALE
			1 / 10
			REV
			SHEET 1 OF 1



Customer	Date	09.05.2020
Contact	Project	
Phone number	Project no.	
Email		

12AI2K9D0

Operating data

Pump type	Fluid	Water
No. of pumps / Reserve	Operating temperature t A	°F 39.2
Nominal flow	pH-value at t A	7
Nominal head	Density at t A	lb/ft ³ 62.4
Static head	Kin. viscosity at t A	ft ² /s 1.689E-5
Inlet pressure	Vapor pressure at t A	psi 14.5
Environmental temperature	Solids	0
Available system NPSH	Altitude	ft 0

Pump data

Make	Goulds Water Technology	Nominal	US g.p.m. 220.6 (220.6)
Speed	rpm 1800	Flow	Max- US g.p.m. 629.2
No. of stages	1		Min- US g.p.m.
Max. casing pressure	psi		Nominal ft 78.4
Max. working pressure	psi 35.8	Head	at Qmax ft 20
Head H(Q=0)	ft 83		at Qmin ft 82.6
Weight	lb 401	Shaft power	hp 6.2 (6.2)
	Max. inch 10 1/16	Max. shaft power	hp 9.7
Impeller R	designed inch 8 5/8	Efficiency	% 72.7
	Min. inch 7 5/8	NPSH 3%	ft 6.3

Shaft Seal

Type 21	Xylem
Car/Cer/Buna (Std.) [Max Temp. 212°F/100°C]	
Rotary	Carbon
Stationary	Ceramic
Elastomers	Buna-N
Metal Parts	316 SS
Application	General Use, Clean Water to 212°F/100°C, Non-Fluctuating Temp

Motor data

Specific design	3ph TEPE	Speed	1750 rpm	Insulation class	F
Electric voltage	460V	Frame size	213JM	Colour	RAL 5010
Type	230V/460V 213JM	Degree of protection	IP 55		
Rated power	7.5 HP	Electric current	9.5 Amp		

Remarks:



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Pump Materials

100 - Casing	Gray cast iron ASTM A48 CL20B
101 - Impeller	Gray cast iron ASTM A48 CL20B
103 - Casing wear ring	Gray cast iron ASTM A48 CL20B
108 - Adapter	Gray cast iron ASTM A48 CL20B
178 - Impeller key	Carbon Steel
184 - Seal housing (One piece with adapter)	Gray cast iron ASTM A48 CL20B
198 - Impeller bolt	AISI Type 300 series stainless steel
199 - Impeller washer	AISI Type 300 series stainless steel
370 - Hex head cap screw (adapter to case)	Steel SAE 1200 Grade 5
371 - Hex head cap screw (adapter to motor)	Steel SAE 1200 Grade 5
383 - Mechanical seal	See seal chart
408 - Pipe plug 1/4" or 3/8"	Steel
513 - O-ring	BUNA-N

3656 M & L-GROUP MATERIALS OF CONSTRUCTION
MATERIALES DE CONSTRUCCIÓN - GRUPO M Y L, MODELO 3656

ANSI 1045 steel motor shaft extension (typical)
ANSI 1045 extensión del eje del motor de acero (típica)

Packed Box Arrangement
Caja prensaestopas

Remarks:



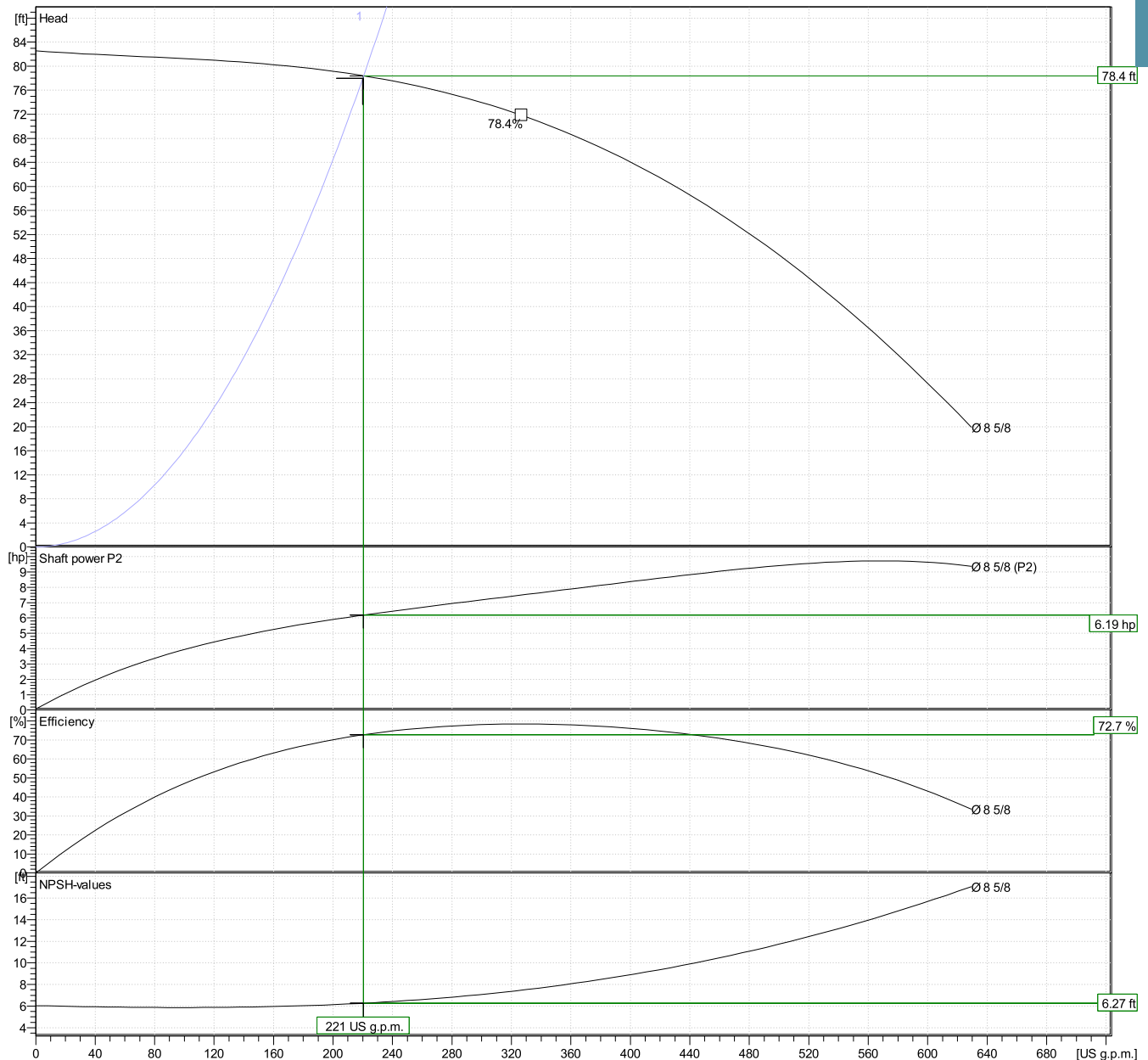
Customer	Date	09.05.2020
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Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	220 US g.p.m.	Flow	221 US g.p.m.	Impeller R	8 ⁵ / ₈ "
Head	78 ft	Head	78.4 ft	Frequency	60 Hz
Static head	0 ft			Speed	1800 rpm

Power data referred to:
 Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s
 Performance according to ISO 9906:2012 – Grade 3B

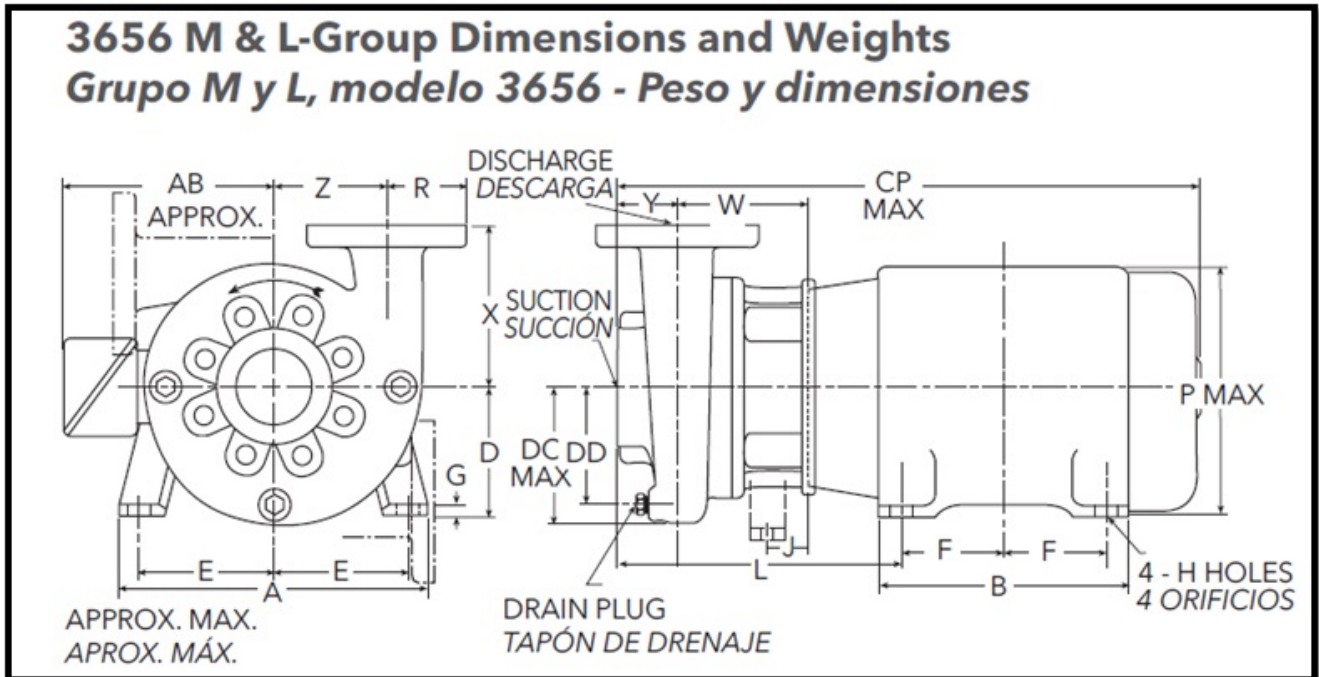




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Drawing



Dimensions inch

A	$9\frac{3}{4}$	H	$\frac{7}{16}$	Z	$5\frac{1}{2}$	Weight 401.03 lb
AB Max.	$9\frac{5}{8}$	L	$12\frac{5}{8}$			
B	$9\frac{9}{16}$	NPT Drain	$\frac{3}{8}$			
D	$5\frac{1}{4}$	P Max.	$11\frac{1}{4}$			
DD	$6\frac{1}{2}$	R	$3\frac{3}{4}$			
Discharge	3	Suction	4			
E	$4\frac{1}{4}$	W	$5\frac{1}{8}$			
F	$3\frac{1}{2}$	X	$7\frac{1}{2}$			
G	$\frac{5}{8}$	Y	3			