

PARTS LIST		
KEY	ITEM	DESCRIPTION
1	INLET	3" FF 125#
2	STRAINER	3" CAST IRON PRE-STRAINER
3	SKID	CARBON STEEL SKID WITH ZINC PRIMER AND EPOXY TOP COAT
4	PUMP	GOULDS 11A12J9D0 160 GPM @ 80TDH 5HP TEPE
5	SEPARATR	XFT-0250
6	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 460VAC TO 120VAC TRANSFORMER PUMP CONTACTOR AND OVERLOAD PROGRAMMABLE PURGE CONTROLLER
7	MOTORIZED PURGE	1-1/2" FNPT
8	DISCHARGE	2-1/2" RF 150#

DRAWN	RB	3/10/2020
CHECKED		
QA		
MFG		
APPROVED		
SCALE	1 / 10	

J.L. WINGERT CO.

TITLE
JLW 160GPM 80TDH SEPARATOR SYSTEM

SIZE	DWG NO	REV
C	CT-0160-80-MPK_BS	
SCALE 1 / 10		SHEET 1 OF 1

NOTE:
 ALL DIMENSIONS ARE ± 1/8" UNLESS OTHERWISE SPECIFIED. THE SEPARATOR AND SKID IS CONSTRUCTED FROM CARBON STEEL. ENTIRE UNIT IS EPOXY COATED.
 MAXIMUM OPERATING PRESSURE: 150 PSI
 MAXIMUM OPERATING TEMPERATURE: 212°F



Customer	Date	17.03.2020
Contact	Project	
Phone number	Project no.	
Email		

11AI2J9D0

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.	176.1	(176.1)
Speed	rpm 1800	Flow	Max-	US g.p.m.	309.6
No. of stages	1		Min-	US g.p.m.	
Max. casing pressure	psi		Nominal	ft	84.8
Max. working pressure	psi 39.9	Head	at Qmax	ft	65.2
Head H(Q=0)	ft 92		at Qmin	ft	92.1
Weight	lb 358	Shaft power		hp	5
	Max. inch 10 1/16	Max. shaft power		hp	7.7
Impeller R	designed inch 9	Efficiency		%	68.81
	Min. inch 7 1/8	NPSH 3%		ft	6.2

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	460VAC	Frame size	184JM	Colour	RAL 5010
Rated power	5 hp	Degree of protection	IP 55		
Electric current	6.7 A				

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:



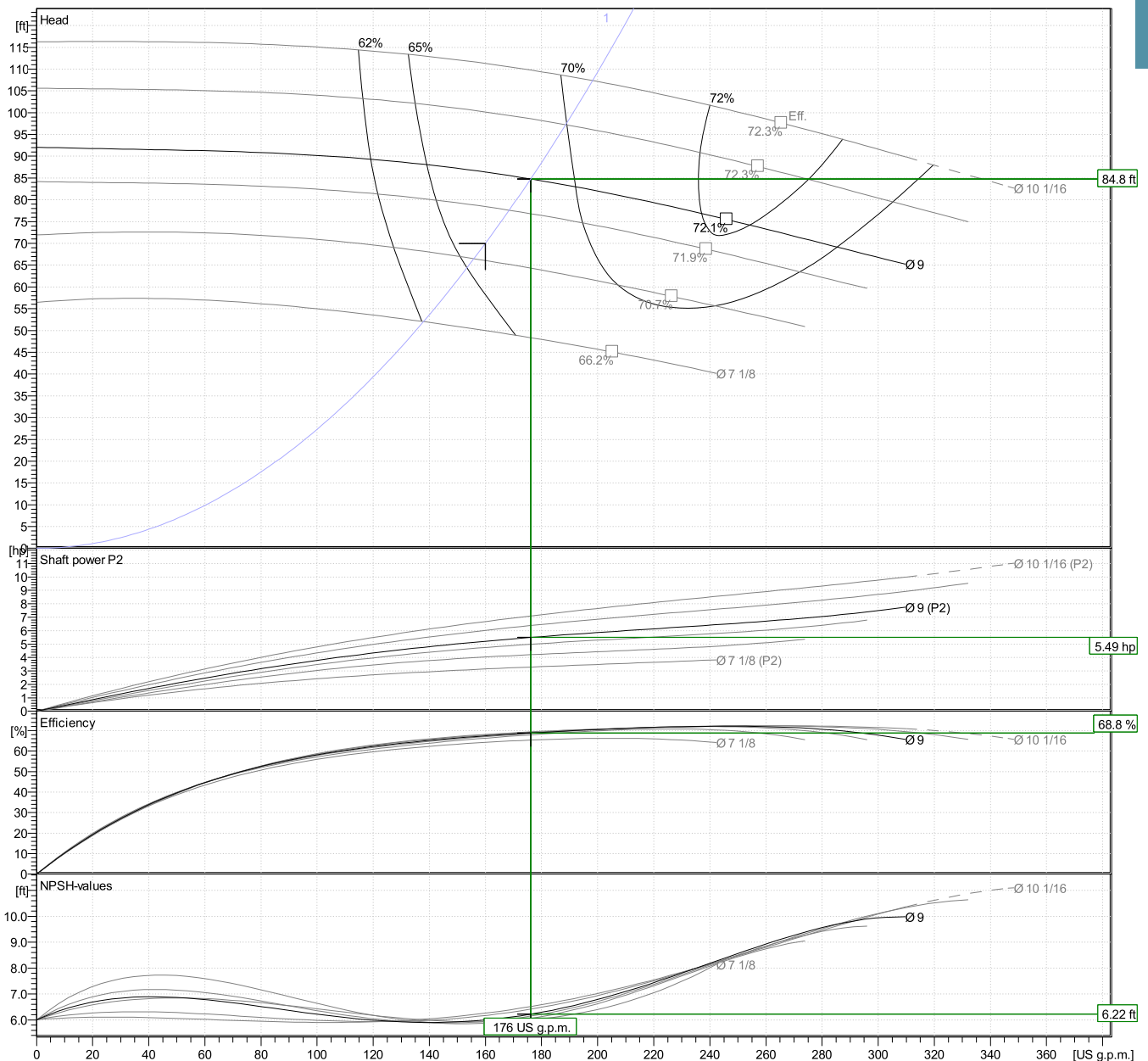
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Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	160 US g.p.m.	Flow	176 US g.p.m.	Impeller R	9"
Head	70 ft	Head	84.8 ft	Frequency	60 Hz
Static head	0 ft			Speed	1800 rpm

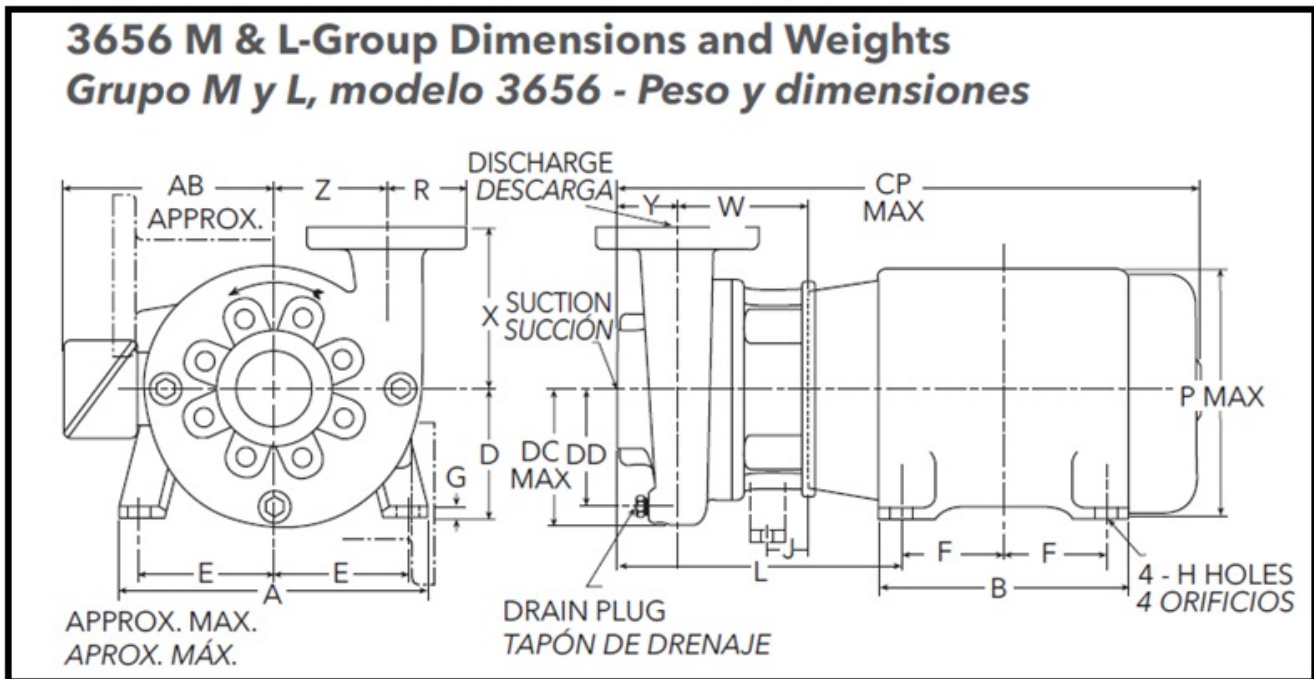
Power datas referred to:
 Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s
 Performance according to ISO 9906 - Annex A



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Drawing



Dimensions inch

A	9 ³ / ₄	H	7 ¹ / ₁₆	Z	5 ¹ / ₂	
AB Max.	9 ⁵ / ₈	L	12 ¹ / ₄			
B	9 ⁹ / ₁₆	NPT Drain	3 ³ / ₈			
D	5 ¹ / ₄	P Max.	11 ¹ / ₄			
DD	6	R	3 ¹ / ₂			
Discharge	2 ¹ / ₂	Suction	3			
E	4 ¹ / ₄	W	5			
F	2 ³ / ₄	X	7 ¹ / ₂			
G	5 ⁷ / ₈	Y	2 ³ / ₄			