

PARTS LIST		
KEY	ITEM	DESCRIPTION
1	INET	2" FNPT FULL PORT BALL VALVE
2	STRAINER	2" CAST IRON W/ SS BASKET
3	SKID	CARBON STEEL SKID WITH ZINC PRIMER AND EPOXY TOP COAT
4	PUMP	GOULDS: 3AI1H9C0 100GPM @ 80TDH 3HP TEPE
5	SEPARATOR	XTI-0150
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 PURGE LED INDICATOR 460VAC TO 120VAC TRANSFORMER PUMP CONTACTOR AND OVERLOAD PROGRAMMABLE PURGE CONTROL TERMINALS FOR EXTERNAL PURGE COMMAND
7	MOTORIZED PURGE	3/4" FULL PORT 120VAC ACTUATED BALL VALVE
8	DISCHARGE	1-1/2" FNPT FULL PORT BALL VALVE

DRAWN	RB	4/8/2020	J.L. WINGERT CO.
CHECKED			
QA			
MFG			
APPROVED			TITLE
			JLW 100GPM @ 80TDH SEPARATOR SYSTEM - SUBMITTAL
			SIZE
			C
			DWG NO
			CT-0100-80-MPK_BS
			REV
			SCALE
			1 / 9
			SHEET 1 OF 1

Customer	Date	08.04.2020
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3AI1H9C0

Operating data

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

Pump data

Make	Goulds Water Technology	Nominal	US g.p.m.	105.1	(105.1)
Speed	rpm 3600	Flow	Max-	US g.p.m.	157.5
No. of stages	1		Min-	US g.p.m.	
Max. casing pressure	psi		Nominal	ft	88.3
Max. working pressure	psi 49	Head	at Qmax	ft	30.2
Head H(Q=0)	ft 110		at Qmin	ft	113
Weight	lb 151	Shaft power		hp	3.3 (3.3)
	Max. inch 5 15/16	Max. shaft power		hp	3.5
Impeller R	designed inch 5 1/8	Efficiency		%	70.84
	Min. inch 4 3/4	NPSH 3%		ft	7.6

Shaft Seal

Type 21	Xylem
(10K13) Car/Cer/Buna [Max Temp. 212°F/100°C] (Std.)	
Rotary	Carbon
Stationary	Ceramic
Elastomers	Buna-N
Metal Parts	316 SS
Application	General Use, Clean Water to 212°F/100°C, Non-Fluctuating Temp

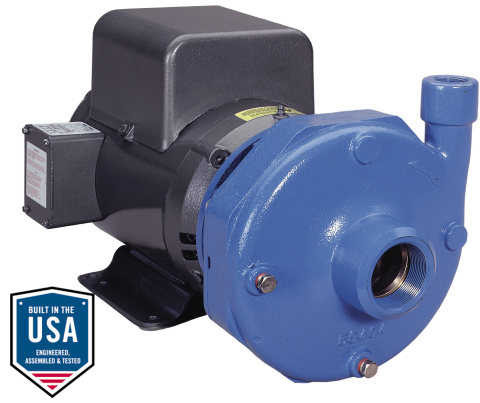
Motor data

Specific design	3ph TEPE	Speed	3500 rpm	Insulation class	F
Electric voltage	460 V	Frame size	182JM	Colour	RAL 5010
Type	230/460V 182JM (C09A32F5BD2S)	Degree of protection	IP 55		
Rated power	3 hp	Electric current	3.6 A		

Remarks:

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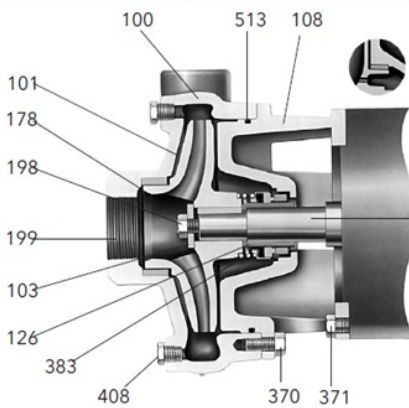
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Pump Materials

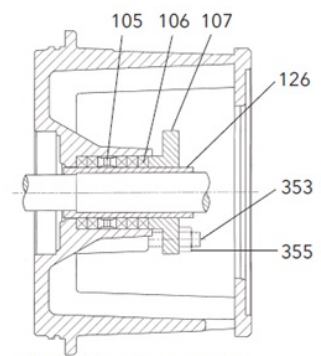
100 - Casing	Gray cast iron ASTM A48 CL20B
101 - Impeller	Gray cast iron ASTM A48 CL20B
103 - Casing wear ring	Gray cast iron ASTM A48 CL20B
108 - Adapter	Gray cast iron ASTM A48 CL20B
184 - Seal housing (One piece with adapter)	Gray cast iron ASTM A48 CL20B
198 - Impeller bolt	AISI Type 300 series stainless steel
199 - Impeller washer	AISI Type 300 series stainless steel
178 - Impeller key	Carbon 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 S-GROUP MATERIALS OF CONSTRUCTION MATERIALES DE CONSTRUCCIÓN - GRUPO S, MODELO 3756



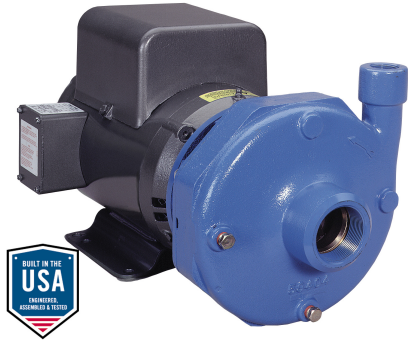
Back wearing ring on S-Group
(2½ x 3 - 7) only
*Anillo de desgaste posterior en el
Grupo S (2½ x 3 - 7) únicamente.*

AISI 1045 steel motor shaft
extension (typical)
*Extensión del eje del motor
de acero AISI 1045 (típico)*



Packed Box Arrangement
Caja prensaestopas

Remarks:



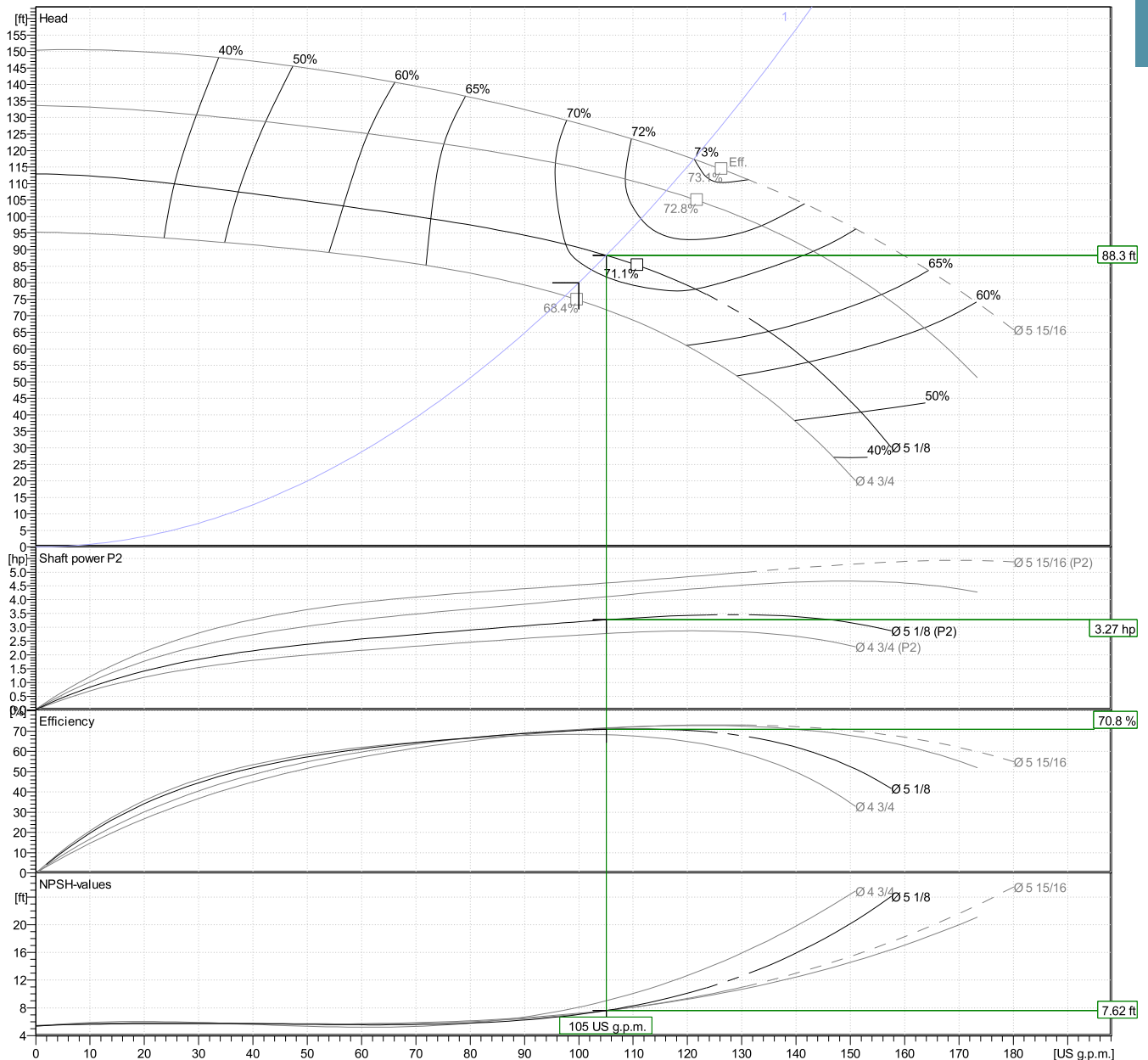
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Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	100 US g.p.m.	Flow	105 US g.p.m.	Impeller R	5 1/8"
Head	80 ft	Head	88.3 ft	Frequency	60 Hz
Static head	0 ft	Head	88.3 ft	Speed	3600 rpm

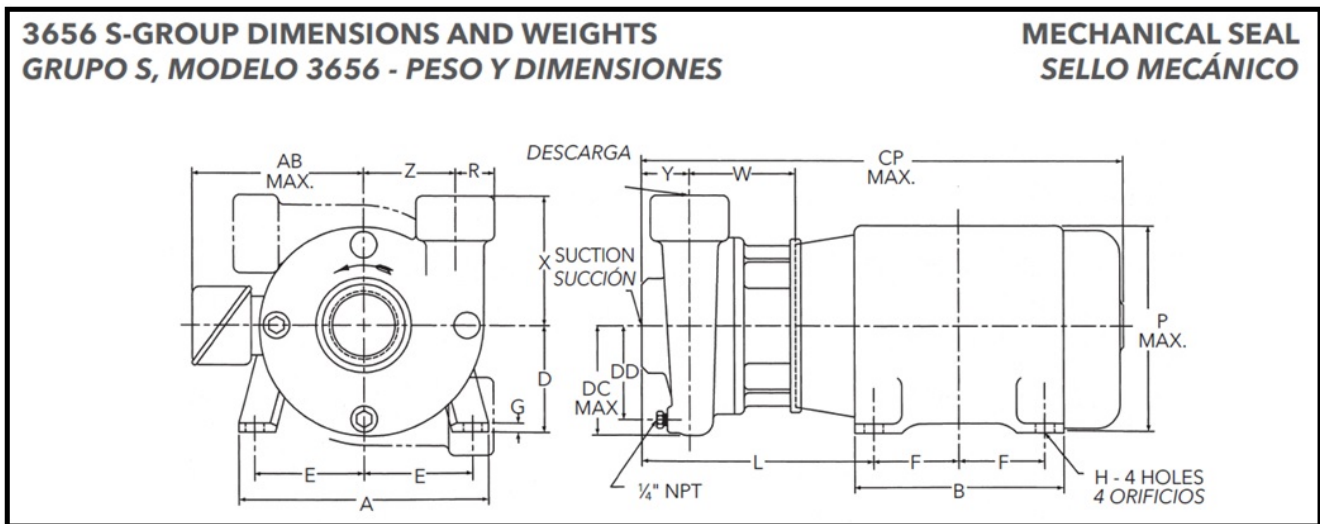
Power datas referred to:
 Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s
 Performance according to ISO 9906 - Annex A



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Drawing



Dimensions inch

A	8 ¹¹ / ₁₆	F	2 ¹ / ₄	Y	2 ⁵ / ₈	Weight 150.84 lb
AB Max.	7 ¹ / ₂	G	3 ⁷ / ₈	Z	3 ¹ / ₂	
B	6 ¹ / ₂	H	10 ³ / ₈			
CP Max.	24 ¹ / ₂	L	9 ⁹ / ₁₆			
D	4 ¹ / ₂	P Max.	1 ¹ / ₄			
DC Max.	4 ¹ / ₄	R	2			
DD	3 ¹ / ₂	Suction	4 ¹ / ₄			
Discharge	1 ¹ / ₂	W	4 ¹ / ₂			
E	3 ³ / ₄	X				