



Customer	Date	03.06.2020
Contact	Project	
Phone number	Project no.	
Email		

# 16BF1R9B0

## 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 <sup>3</sup> 62.4
Static head ft	Kin. viscosity at t A	ft <sup>2</sup> /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.	( )
Speed	rpm 3600	Flow	Max-	US g.p.m. 753.6
No. of stages	1		Min-	US g.p.m.
Max. casing pressure	psi		Nominal	ft
Max. working pressure	psi 102.2	Head	at Qmax	ft 109.9
Head H(Q=0)	ft 240		at Qmin	ft 235.7
Weight	lb 1156	Shaft power	hp	( )
	Max. inch 8 1/16	Max. shaft power	hp	38.9
Impeller R	designed inch 7 7/16	Efficiency	%	
	Min. inch 4 5/8	NPSH 3%	ft	

## 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	3500 rpm	Insulation class	F
Electric voltage	230 V	Frame size	324JM	Colour	RAL 5010
Type	230/460V 324JM (C17A32F5BM2S)	Degree of protection	IP 55		
Rated power	40 hp	Electric current	90 A		

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## Pump Materials

100 - Casing	Gray cast iron ASTM A48 CL20B
101 - Impeller	Silicon bronze ASTM B584, C87500
103 - Casing wear ring	Bismuth brass
108 - Adapter	Cast iron ASTM A48 CL30
178 - Impeller key	Carbon Steel
184 - Seal housing (One piece with adapter)	Cast iron ASTM A48 CL30
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

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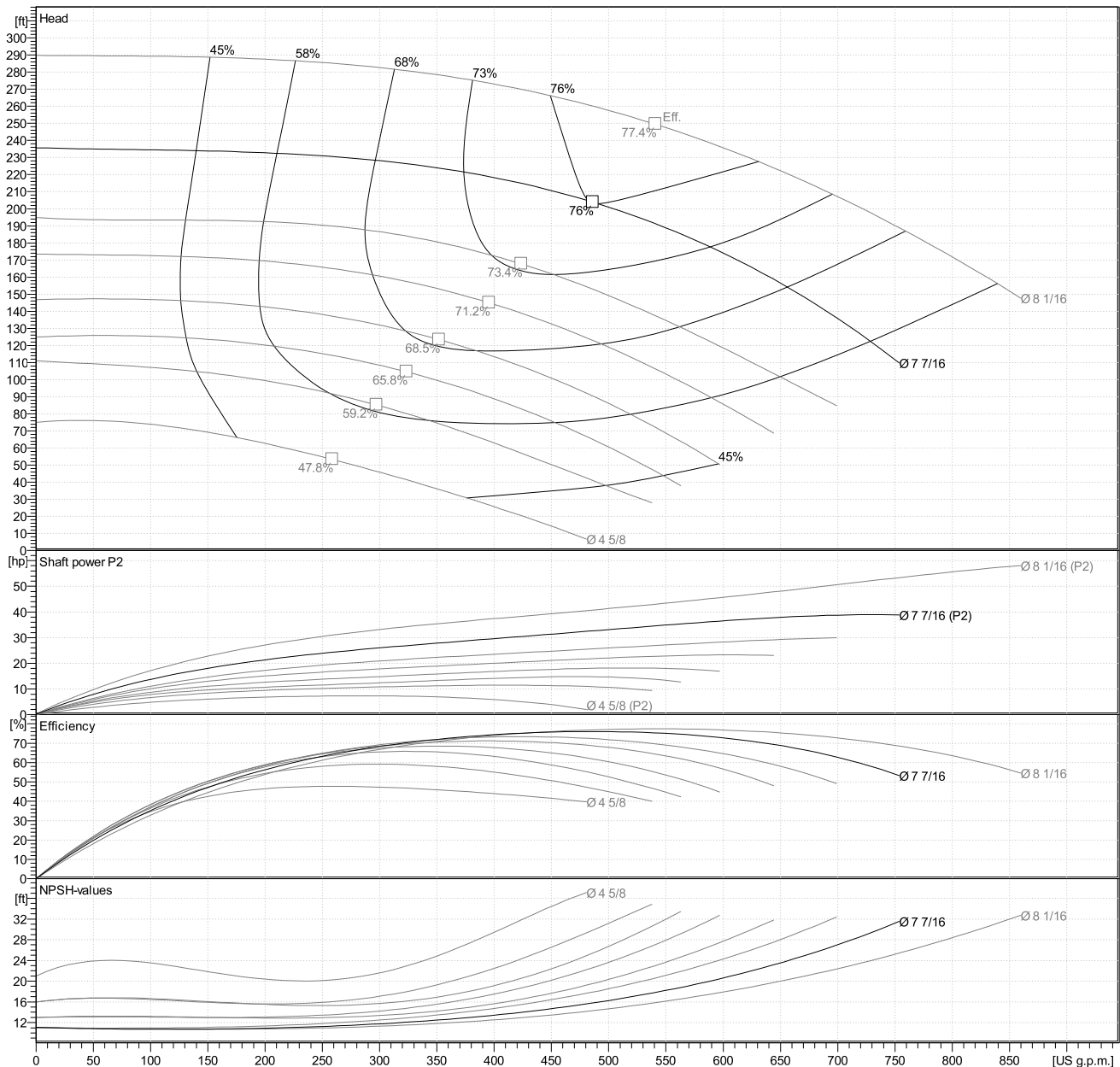
### Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 US g.p.m.	Flow		Impeller R	7 <sup>7</sup> / <sub>16</sub> "
Head	0 ft	Head		Frequency	60 Hz
Static head	0 ft	Head		Speed	3600 rpm

#### Power data referred to:

Water [100%] ; 39.2°F; 62.4lb/ft<sup>3</sup>; 1.69E-5ft<sup>2</sup>/s

Performance according to ISO 9906:2012 – Grade 3B

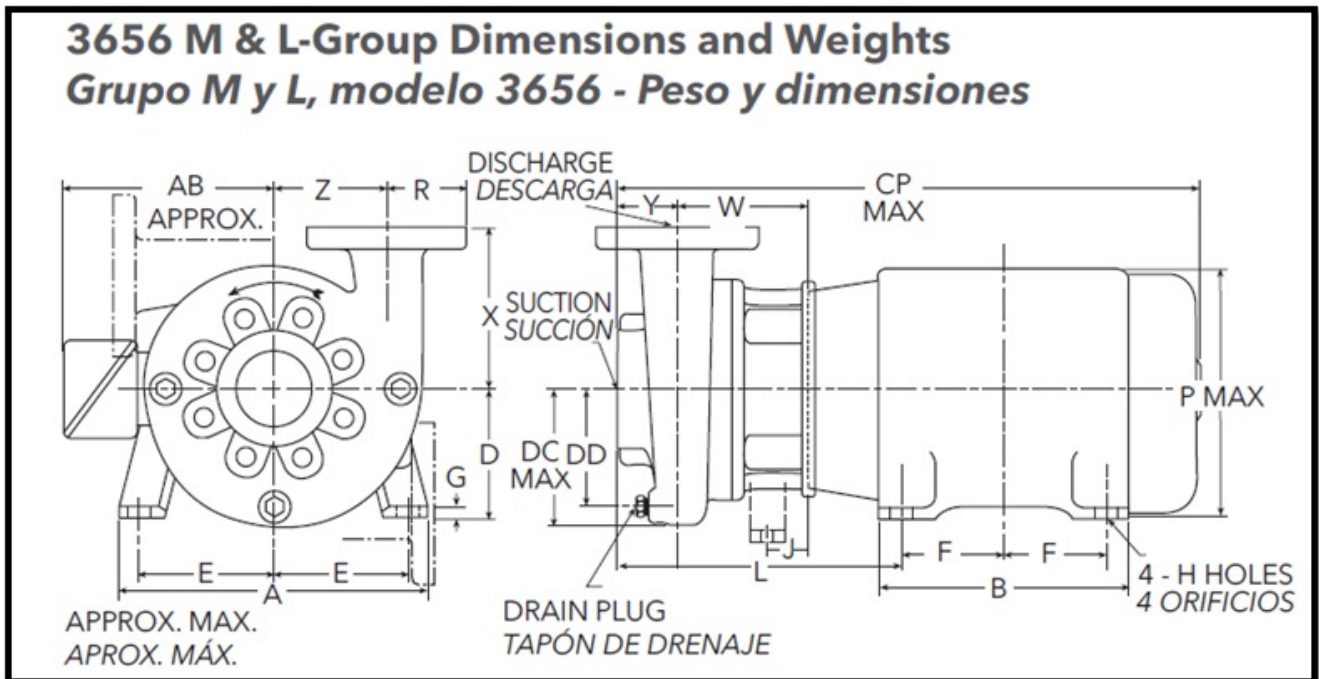




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### Drawing



### Dimensions inch

A	15 <sup>3</sup> / <sub>16</sub>	H	11 <sup>1</sup> / <sub>16</sub>	Z	5 <sup>5</sup> / <sub>8</sub>	Weight 1155.6 lb
AB Max.	14 <sup>5</sup> / <sub>8</sub>	L	13 <sup>13</sup> / <sub>16</sub>			
B	14 <sup>9</sup> / <sub>16</sub>	NPT Drain	1 <sup>1</sup> / <sub>4</sub>			
D	8	P Max.	16 <sup>7</sup> / <sub>8</sub>			
DD	5 <sup>3</sup> / <sub>8</sub>	R	3 <sup>3</sup> / <sub>4</sub>			
Discharge	3	Suction	4			
E	6 <sup>1</sup> / <sub>4</sub>	W	5 <sup>5</sup> / <sub>16</sub>			
F	5 <sup>1</sup> / <sub>4</sub>	X	7			
G	1 <sup>5</sup> / <sub>16</sub>	Y	3			