

PARTS LIST		
KEY	PART NUMBER	DESCRIPTION
1	INLET	6" 125# FF FLANGE
2	STRAINER	6" CAST IRON STRAINER WITH STAINLESS STEEL BASKET
3	PUMP	GOULDS 15AI2N9K0 850 GPM @ 80 TDH 20HP TEPE
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	XFD-0500 554-959 GPM
7	PURGE	1-1/2" FPT MOTORIZED 120VAC PURGE VALVE
8	DISCHARGE	5" 150# RF FLANGE

DRAWN	RB	10/7/2020	J.L. WINGERT CO.
CHECKED			
QA			TITLE
MFG			JLW 850 GPM @ 80TDH SEPARATOR SYSTEM
APPROVED			SIZE
			DWG NO
			CT-0850-80-MPK/BS - Submittal
			REV
			SCALE 0.09 : 1
			SHEET 1 OF 1



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15A12N9K0

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/ft³ 62.4
Static head	Kin. viscosity at t A	ft²/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. 849.9 (849.9)
Speed	rpm 1800	Flow	Max- US g.p.m. 1121.1
No. of stages	1		Min- US g.p.m.
Max. casing pressure	psi		Nominal ft 79.9
Max. working pressure	psi 45.7	Head	at Qmax ft 31.4
Head H(Q=0)	ft 110		at Qmin ft 105.4
Weight	lb 788	Shaft power	hp 21.5 (21.5)
	Max. inch 13 1/16	Max. shaft power	hp 21.9
Impeller R	designed inch 9 7/8	Efficiency	% 80.47
	Min. inch 9 3/8	NPSH 3%	ft 10.1

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	460 V	Frame size	256JM	Colour	RAL 5010
Type	230/460V 256JM (C14A34F5BK2S)	Degree of protection	IP 55		
Rated power	20 hp	Electric current	24 A		

Remarks:

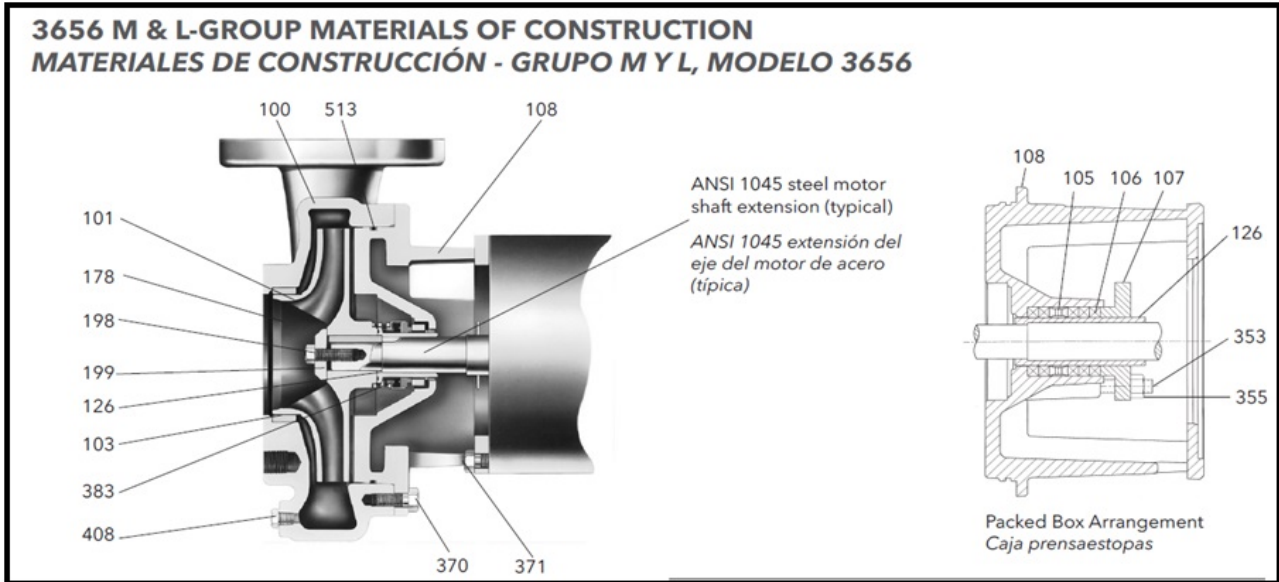


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Pump Materials

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



Remarks:



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Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	849.9 US g.p.m.	Flow	850 US g.p.m.	Impeller R	9 ⁷ / ₈ "
Head	79.9 ft	Head	79.9 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

