

PARTS LIST				
KEY	ITEM	DESCRIPTION		
1	INLET	2" FNPT BALL VALVE		
2	STRAINER	CAST IRON WITH STAINLESS STEEL BASKET		
3	SKID	EPOXY COATED CARBON STEEL		
4	PUMP	GOULDS 3ST1H9D4 65 GPM @ 80 TDH 3HP TEPE		
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) WIRED FOR 460VAC/3Ph/60Hz		
6	SEPARATOR	XTI-0125 FLOW AT 4PSID: 49 GPM FLOW AT 12 PSID: 84 GPM		
7	PURGE	3/4" FNPT 120VAC MOTORIZED PURGE KIT		
8	DISCHARGE	1-1/4" FNPT BALL VALVE		
DRAWN	7/16/2020	J.L. WINGERT CO. TITLE JLW 65GPM @ 80 TDH SEPARATOR SYSTEM		
RB				
CHECKED				
QA				
MFG		SIZE	DWG NO	REV
APPROVED		C	CT-0065-80-MPK/BS-IV	
		SCALE	0.11 : 1	SHEET 1 OF 1

Customer	Date	17.11.2020
Contact	Project	
Phone number	Project no.	
Email		

3ST1H9D4

Operating data

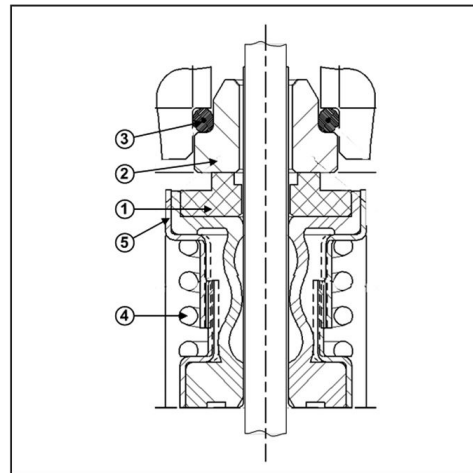
Pump type	End Suction Pumps	Fluid	Water
No. of pumps / Reserve	1 / 0	Operating temperature t A	°F 39.2
Nominal flow	US g.p.m. 64.99	pH-value at t A	7
Nominal head	ft 79.99	Density at t A	lb/ft ³ 62.4
Static head	ft 0	Kin. viscosity at t A	ft ² /s 1.689E-5
Inlet pressure	psi 0	Vapor pressure at t A	psi 14.5
Environmental temperature	°F 68	Solids	0
Available system NPSH	ft 0	Altitude	ft 0

Pump data

Make	Goulds Water Technology	Nominal	US g.p.m. 64.9	(64.9)
Speed	rpm 3500	Flow	Max- US g.p.m. 145	
No. of stages	1		Min- US g.p.m.	
Max. casing pressure	psi		Nominal	ft 79.8
Max. working pressure	psi 36	Head	at Qmax	ft 52.2
Head H(Q=0)	ft 83		at Qmin	ft 83.1
Weight	lb On demand	Shaft power	hp 2.1	(2.1)
	Max. inch 5 1/8	Max. shaft power	hp 3.3	
Impeller R	designed inch 4 1/2	Efficiency	% 63.21	
	Min. inch 3 5/8	NPSH 3%	ft 5.2	

Shaft Seal

Type 21 NPE	John Crane
NPE Mechanical Seal	
1 - Rotating Face	Carbon
2 - Stationary Face	Silicon Carbide
3 - Elastomers	Viton
4 - Metal Components	ALSI 316 SS



Motor data

Manufacturer	Bluffton	Electric voltage	460 V	Speed	3500 rpm	Insulation class	B
Specific design	3ph TEFC Premium Efficiency			Frame size	56J	Colour	RAL 5010
Type	K10D32E5EB1G	Electric current	3.6 A				
Rated power	3 hp	Degree of protection	IP 55				

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Pump Materials

100-Casing	AISI 316L SS
101-Impeller	AISI 316L SS
108-Motor adapter	AISI 316L SS
108A-Motor adapter seal vent/flush	AISI 316L SS
123-Deflector	BUNA-N
184-Seal housing	AISI 316L SS
184 A-Seal housing seal vent/flush	AISI 316L SS
347-Guidevane	AISI 316L SS
349-Seal ring, guidevane	Viton
370-Socket head screws, casing	AISI 410 SS
371-Bolts, motor	Plated Steel
408-Drain and vent plug, casing	AISI 316L SS
412B-O-ring, drain and vent plug	Viton
513-O-ring, casing	Viton
Motor-NEMA standard, 56J flange	-

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Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	65 US g.p.m.	Flow	64.9 US g.p.m.	Impeller R	4 1/2"
Head	80 ft	Head	79.8 ft	Frequency	60 Hz
Static head	0 ft			Speed	3500 rpm

Power data referred to:
 Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s
 Performance according to ANSI/HI 14.6 - Grade 2B

