INTRODUCTION: NELHA operates a seawater pumping utility that pumps upward of 30 million gallons of seawater to aquaculture and energy clients at its facility. NELHA is procuring replacement pumps and pump casings for its existing pump system. The pumps have been in our system for ~ 20 years. The pump replacement require to be an exact dimensional match to the current pumps to allow for quick installation to the surrounding intake and discharge piping systems and ancillary equipment supporting the pumps which include vacuum and packing water systems. NELHA is required to install and repair all systems delivering seawater within a 2-hour window of time. Any pumps offered that are not an exact match will need to include in the bid price all piping, hardware adapters, and fittings modification to allow the pumps to work withing the frame work of the current pump station design.

SOLICITATION PUMP MODELS:

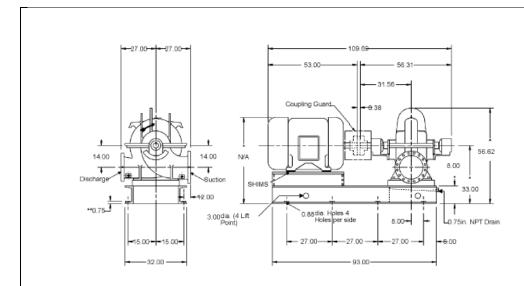
- 1. Qty (1) Goulds Complete Pump 3409L 18 x 14 x 23 (200hp) (Duplicate of SN No. N216H423) or equivalent provided cost of modifications to allow for a perfect match are included in quote.
- 2. Qty (3) Goulds Pump Case 3409L 18 x 14 x 23 Cast Iron (Duplicate part from SN No. N216H423) equivalent provided cost of modifications to allow for a perfect match are included in quote.
- 3. Qty (1) Goulds Pump Complete Pump 3410M 6 x 8 11 (40hp) (Duplicate part from SN No.2410889) equivalent provided cost of modifications to allow for a perfect match are included in quote.
- 4. Qty (1) Goulds Pump Complete Pump 3410M 8 x 10 12 (100hp) (Duplicate part from SN No. 242C182) equivalent provided cost of modifications to allow for a perfect match are included in quote.

SOLICITATION PUMP SPECIFICATIONS:

1. Qty (1) Goulds Complete Pump 3409L 18 x 14 x 23

LIQUID:	water, sea , Rated Temp. 70.0 deg F, SP.GR 1.000, Viscosity
	1.000 cp, Rated/Max. suction pressure 0.0 / 0.0 psi g
CAPACITY Rated:	7,000.0 gpm
HEAD	94 ft.
PUBLISHED EFFY:	88.5% (CDS)
RATED EFFY:	88.5%
RATED POWER:	190.2 hp (Run out 204.7 hp)
NPSHR:	9.6 ft
DISCH PRESSURE (R):	41.3 psi g (50.1 psi g @ Shut off) based on 0.0 psi g rated
	suction pressure
PERF. CURVE:	A-7876-10 (Rotation CW viewed from coupling end)
SHUT OFF HEAD:	115.8 ft
MIN. FLOW:	Continuous Stable: 3,905.6 gpm Hydraulic: 3,905.6 gpm
	Thermal: N/A
CONSTRUCTION:	All iron
CASING:	Cast iron (max.casing pressure @ rated temp. 175.0 psi g)

IMPELLER: Ductile Iron - Enclosed (20.6000 in rated, max=23.0000 in, min=18.4000 in) IMPELLER WEAR RING: 316SS CASING GASKETS: Vellumoid 505 SHAFT MATERIAL: 316SS SHAFT SLEEVE: 316SS LUBRICATION: Grease GLAND: Cast Iron Split BEARINGS: 6316 (Inboard) / 21316 (Outboard) COUPLING GUARD: Steel BASEPLATE: Channel steel Base # 11 PACKING: Acrylic yarn impregnated with petroleum lubricants and graphite FLANGE: 125# flat face FRAME: Inpro VBX Labyrinth Seal Single extended shaft ASSEMBLY & TESTING: Casing - Standard hydro test Impeller balanced to ISO G6.3 PIPING: 316 Stainless tubing and fittings with 316 needle control valve BASEPLATE FEATURES: Drip Pan with NPT drain connection PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 200.0 hp (149.1 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM		,
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FLANGE: 125# flat face FRAME: Inpro VBX Labyrinth Seal Single extended shaft ASSEMBLY & TESTING: Casing - Standard hydro test Impeller balanced to ISO G6.3 PIPING: 316 Stainless tubing and fittings with 316 needle control valve BASEPLATE FEATURES: Drip Pan with NPT drain connection PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 200.0 hp (149.1 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM	BASEPLATE:	Channel steel Base # 11
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FRAME: Inpro VBX Labyrinth Seal Single extended shaft ASSEMBLY & TESTING: Casing - Standard hydro test Impeller balanced to ISO G6.3 PIPING: 316 Stainless tubing and fittings with 316 needle control valve BASEPLATE FEATURES: Drip Pan with NPT drain connection PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 200.0 hp (149.1 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM		graphite
Single extended shaft ASSEMBLY & TESTING: Casing - Standard hydro test Impeller balanced to ISO G6.3 PIPING: 316 Stainless tubing and fittings with 316 needle control valve BASEPLATE FEATURES: Drip Pan with NPT drain connection PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 200.0 hp (149.1 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM	FLANGE:	125# flat face
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Impeller balanced to ISO G6.3 PIPING: 316 Stainless tubing and fittings with 316 needle control valve BASEPLATE FEATURES: Drip Pan with NPT drain connection PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 200.0 hp (149.1 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM		Single extended shaft
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BASEPLATE FEATURES: Drip Pan with NPT drain connection PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 200.0 hp (149.1 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM		Impeller balanced to ISO G6.3
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ELECTRIC MOTOR: 200.0 hp (149.1 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM	PAINT:	Goulds Blue standard painting
PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM	DRIVER:	Electric Motor
INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM	ELECTRIC MOTOR:	200.0 hp (149.1 KW)
ENCLOSURE: TEFC - Premium Efficiency SPEED: 900 RPM		
SPEED: 900 RPM	INSULATION/SF:	
	ENCLOSURE:	TEFC - Premium Efficiency
EDAME: 140T	SPEED:	900 RPM
I NAME. 4431	FRAME:	449T



Pump Specification

SUCT.FLANGE SIZE 18" DRILLING ANSI 1	25# FACING FF FINISH SMOOTH
DISCH.FLANGE SIZE 14" DRILLING ANSI 1	25# FACING FF FINISH SMOOTH
PUMP ROTATION (LOOKING AT PUMP FROM MC	OTOR) CW
TYPE OF LUBRICATION GREASE	COOLED NO
TYPE OF STUFFING BOX STANDARD	COOLED NO
TYPE OF SEALING PACKING	

Motor Specification

MOTOR BY	PUMP MFG	MOUNT BY F	UMP MFG	MFG.	PUMP MFG'S CE	HOICE OR EQUAL	
FRAME	449T	POWER	200.0 h	р	RPM	900	
PHASE	3	FREQUE	NCY 60 HZ		VOLTS	460	
INSULATION	F	S.F.	1.15				
ENCLOSURE	TEFC - PRE	MIUM EFFICIEN	CY				

Auxiliary Specification

	4	-		
COUPLING B	Y	CUSTOMER	CPLG TYPE	REXNORD (FALK) T10 1090T
CPL GUARD	BY	PUMP MFG	CPLG GUARD MATL	STEEL
BASEPLATE	CHA	NNEL STEEL	Base # 11	
PACKING	ACR	YLIC YARN IN	IPREGNATED WITH PETR	OLEUM LUBRICANTS AND GRAPHITE

Weights and Measurements

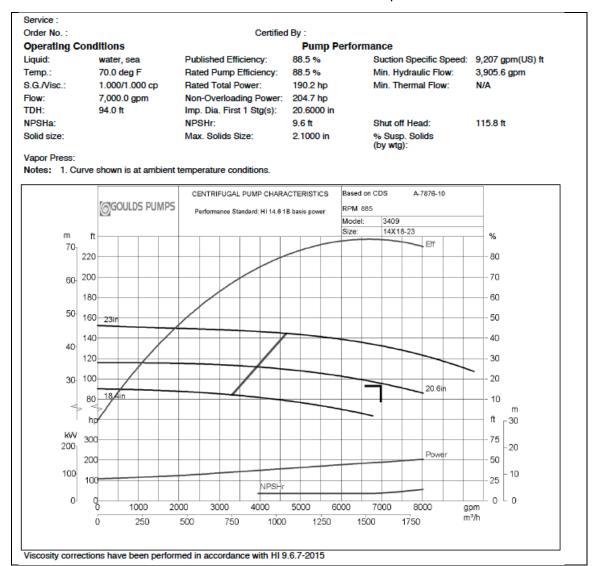
PUMP	2,940.0 lb
MOTOR/CPLG	2,550.0/57.0 1b
BASEPLATE	819.0 lb
TOTAL	6,366.0 lb
GR.VOLUME w/BOX	455.1 ft3
GR.WEIGHT w/BOX	8,642.0 lb

Notes and References

MTR DIMENSIONS ARE APPROXIMATE
 Tolerance is +40.25 in.
For the rest of the dimensions tolerance is +40.13 in. unless otherwise specified

Foundation bolt grip thickness

FOR PUMP TAPPED OPENINGS REFER TO DWG.: TB230142 / 3409 bare pump N216H423



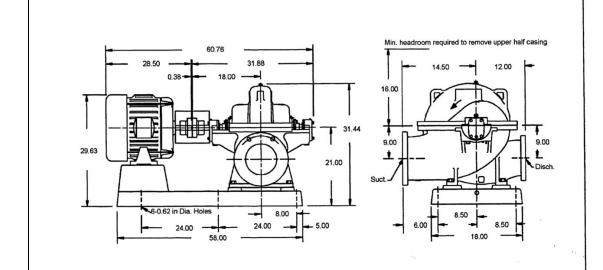
2. Qty (3) Goulds Pump Case 3409L 18 x 14 x 23 Cast Iron

CONSTRUCTION:	All iron
CASING:	Cast iron (max.casing pressure @ rated temp. 175.0 psi g)
See Dimensional drawing	of casing in item #1 specifications

3. Qty (1) Goulds Pump Complete Pump 3410M 6 x 8 - 11

LIQUID:	water, sea , Rated Temp. 70.0 deg F, SP.GR 1.000, Viscosity
	1.000 cp, Rated/Max. suction pressure 0.0 / 0.0 psi g
CAPACITY Rated:	1625 gpm
HEAD	70 ft.
PUBLISHED EFFY:	83.0% (CDS)
RATED EFFY:	83.0%
RATED POWER:	35.6 hp

DISCH PRESSURE (R): 48.1 psi g based on 0.0 psi g rated suction pressure PERF. CURVE: 3769 SHUT OFF HEAD: MIN. FLOW: 586 gpm CONSTRUCTION: All iron CASING: CASING: CASING WEAR RING: IMPELLER: MPELLER: CASTING HEAD: SHAFT MATERIAL: SHAFT MATERIAL: SHAFT SLEEVE: GLAND: GLAND: BEARINGS: COUPLING GUARD: BASEPLATE: FRAME: ASSEMBLY & TESTING: ASSEMBLY & TESTING: CASING: CASING: CAST iron (max.casing pressure @ rated temp. 175.0 psi g) CASING GASKETS: Non asbestos SHAFT steeve: 316SS CASING GASKETS: Non asbestos SHAFT MATERIAL: 316SS SHAFT SLEEVE: 316SS LUBRICATION: Grease GLAND: 316SS Flush vent and drain with carbon restricting bushing BEARINGS: SKF 6207 (Inboard) / SKF 3306 A/C3 (Outboard) COUPLING GUARD: Carbon steel BASEPLATE: Cast iron D00091A PACKING: Acrylic yarn impregnated with petroleum lubricants and graphite FLANGE: 125# flat face FRAME: Labyrinth oil seals - Inpro VBX Safety orange Shaft guard (Carbon Steel) Single extended shaft ASSEMBLY & TESTING: Casing - Standard hydro test Impeller balanced to ISO G6.3 PIPING: BASEPLATE FEATURES: Drip Pan with LIP 261-56 PAINT: Goulds Blue standard painting DEIP CASING ACM (ACM) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 1780 RPM FRAME: 324T	NPSHR:	12 ft	
PERF. CURVE: 3769 SHUT OFF HEAD: 111.0 ft MIN. FLOW: 586 gpm CONSTRUCTION: All iron CASING: Cast iron (max.casing pressure @ rated temp. 175.0 psi g) CASING WEAR RING: Nitronic 60 IMPELLER: Cast iron - Enclosed (10.25 in in rated) IMPELLER WEAR RING: 316SS CASING GASKETS: Non asbestos SHAFT MATERIAL: 316SS SHAFT SLEEVE: 316SS LUBRICATION: Grease GLAND: 316SS Flush vent and drain with carbon restricting bushing BEARINGS: SKF 6207 (Inboard) / SKF 3306 A/C3 (Outboard) COUPLING GUARD: Carbon steel BASEPLATE: Cast iron D00091A PACKING: Acrylic yarn impregnated with petroleum lubricants and graphite FLANGE: 125# flat face FRAME: Labyrinth oil seals - Inpro VBX Safety orange Shaft guard (Carbon Steel) Single extended shaft ASSEMBLY & TESTING: Casing - Standard hydro test Impeller balanced to ISO G6.3 PIPING: 316 Stainless tubing and fittings with 316 needle control valve BASEPLATE FEATURES: Drip Pan with LIP 261-56 PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 40.0 hp (29.4 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 1780 RPM			
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MIN. FLOW: 586 gpm CONSTRUCTION: All iron CASING: Cast iron (max.casing pressure @ rated temp. 175.0 psi g) CASING WEAR RING: Nitronic 60 IMPELLER: Cast iron - Enclosed (10.25 in in rated) IMPELLER WEAR RING: 316SS CASING GASKETS: Non asbestos SHAFT MATERIAL: 316SS SHAFT SLEEVE: 316SS LUBRICATION: Grease GLAND: 316SS Flush vent and drain with carbon restricting bushing BEARINGS: SKF 6207 (Inboard) / SKF 3306 A/C3 (Outboard) COUPLING GUARD: Carbon steel BASEPLATE: Cast iron D00091A PACKING: Acrylic yarn impregnated with petroleum lubricants and graphite FLANGE: 125# flat face FRAME: Labyrinth oil seals - Inpro VBX Safety orange Shaft guard (Carbon Steel) Single extended shaft ASSEMBLY & TESTING: Casing - Standard hydro test Impeller balanced to ISO G6.3 PIPING: 316 Stainless tubing and fittings with 316 needle control valve BASEPLATE FEATURES: Drip Pan with LIP 261-56 PAINT: Goulds Blue standard painting DRIVER: Electric Motor ELECTRIC MOTOR: 40.0 hp (29.4 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 1780 RPM			
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ELECTRIC MOTOR: 40.0 hp (29.4 KW) PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 1780 RPM	PAINT:	Goulds Blue standard painting	
PHASE/FREQ/VOLTS: 3/60 Hz/460 INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 1780 RPM	DRIVER:	Electric Motor	
INSULATION/SF: F/1.15 ENCLOSURE: TEFC - Premium Efficiency SPEED: 1780 RPM	ELECTRIC MOTOR:	40.0 hp (29.4 KW)	
ENCLOSURE: TEFC - Premium Efficiency SPEED: 1780 RPM	PHASE/FREQ/VOLTS:	3/60 Hz/460	
SPEED: 1780 RPM	INSULATION/SF:	F/1.15	
	ENCLOSURE:	TEFC - Premium Efficiency	
FRAME: 324T	SPEED:	1780 RPM	
	FRAME:	324T	



Pump specification

SUCT.FLANGE SIZE 8"	DRILLING ANSI 125 #	FACING FF	FINISH SMOOTH
DISCH.FLANGE SIZE 6"	DRILLING ANSI 125 #	FACING FF	FINISH SMOOTH
PUMP ROTATION (LOOKING	AT PUMP FROM MOTOR)	CW	
TYPE OF LUBRICATION RE	EGREASABLE BEARINGS		COOLED NO
TYPE OF STUFFING BOX	N/A		COOLED NO
TYPE OF SEALING PACKI	'NG		

Motor specification

MOTOR BY	PUMP MFG	MOUNT BY PUMP MFG	MFG. US	ELECTRIC	
FRAME	324T	POWER	40.00 hp	RPM	1800
PHASE	3	FREQUENCY	60Hz	VOLTS	230/460
INSULATION	N F	S.F.	1.15		
ENCLOSUR	E TEFC PRE	MIUM EFFICIENCY			

Auxiliary specification

COUPLING BY PUMP MFG CPLG TYPE FALK T10 1060T	
CPL GUARD BY PUMP MFG. CPLG GUARD MATL STEEL	
BASEPLATE FABRICATED STEEL DRIP LIP 261-56	
PACKING PACKMASTER I	

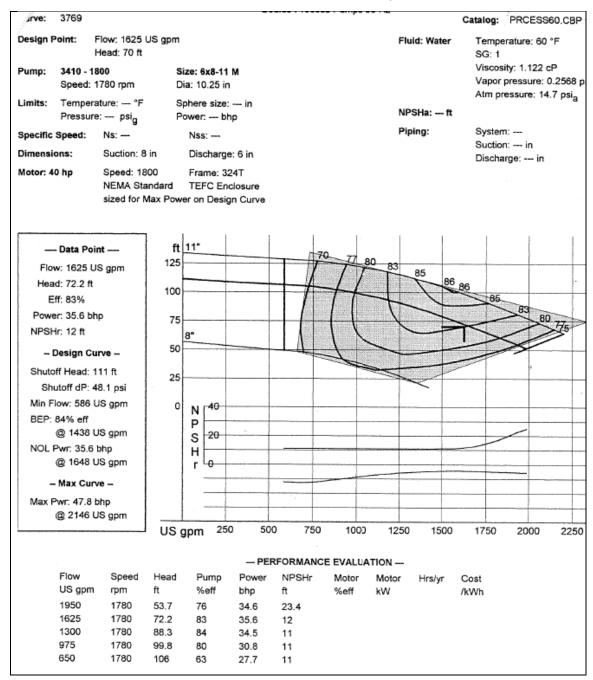
Weights and Measurements

PUMP	692.0	Lb
MOTOR/CPLG	520.0/16.0	Lb
BASEPLATE	285.0	Lb
TOTAL	1513.0	Lb
GR.VOLUME w/BOX	43.1	ft3
GR.WEIGHT w/BOX	1729.0	Lb

Notes and References

* INSTALL FOUNDATION BOLTS IN PIPE SLEEVES
* ALLOW FROM 0.75 to 1.50in, FOR
GROUTING. SEE INSTRUCTION BOOK FOR DETAILS.
* MTR DIMENSIONS ARE APPROXIMATE

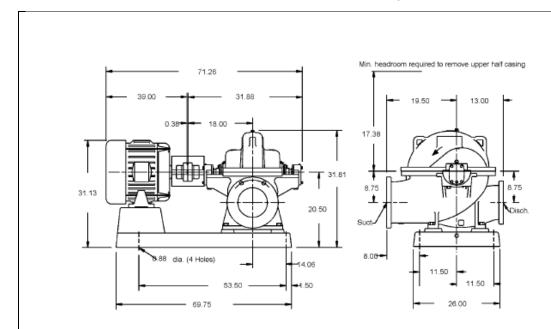
FOR PUMP TAPPED OPENINGS REFER TO DWG.: A242184T



4. Qty (1) Goulds Pump Complete Pump 3410M 8 x 10 - 12

LIQUID:	water, sea , Rated Temp. 70.0 deg F, SP.GR 1.000, Viscosity
	1.000 cp, Rated/Max. suction pressure 0.0 / 0.0 psi g
CAPACITY Rated:	3,250.0 gpm
HEAD	95.0 ft.
PUBLISHED EFFY:	86.0% (CDS)
RATED EFFY:	85.5%

RATED POWER:	92.6 hp (incl. Mech. seal drag 0.52). (Run out 92.7 hp NOL 93.2 hp)
NPSHR:	26.7 ft
DISCH PRESSURE (R):	41.8 psi g (64.5 psi g @ Shut off) based on 0.0 psi g rated
BIOGITI NEGOGIAE (N).	suction pressure
PERF. CURVE:	3847-2 (Rotation CW viewed from coupling end)
SHUT OFF HEAD:	149.0 ft
MIN. FLOW:	Continuous Stable: 708.4 gpm Hydraulic: 708.4 gpm Thermal:
	N/A
CONSTRUCTION:	Alliron
CASING:	Cast iron (max.casing pressure @ rated temp. 175.0 psi g)
CASING WEAR RING:	Nitronic 60
IMPELLER:	Cast iron - Enclosed (11.7500 in rated, max=12.0000 in,
	min=9.0000 in)
IMPELLER WEAR RING:	316SS
CASING GASKETS:	Non asbestos
SHAFT MATERIAL:	316SS
SHAFT SLEEVE:	316SS
LUBRICATION:	Grease
GLAND:	316SS Flush vent and drain with carbon restricting bushing
BEARINGS:	SKF 6207 (Inboard) / SKF 3306 A/C3 (Outboard)
COUPLING GUARD:	Carbon steel
BASEPLATE:	Cast iron D00091A
PACKING:	Goulds SealPlus SP1CS (Carbon vs Silicon Carbide) -
	(Cartridge - Single)
FLANGE:	125# flat face
FRAME:	Labyrinth oil seals - Inpro VBX
	Safety orange
	Shaft guard (Carbon Steel)
	Single extended shaft
ASSEMBLY & TESTING:	Casing - Standard hydro test
	Impeller balanced to ISO G6.3
PIPING:	316 Stainless tubing and fittings with 316 needle control valve
BASEPLATE FEATURES:	Drip Pan with LIP 261-56
PAINT:	Goulds Blue standard painting
DRIVER:	Electric Motor
ELECTRIC MOTOR:	100.0 hp (74.6 KW)
PHASE/FREQ/VOLTS:	3/60 Hz/460
INSULATION/SF:	F/1.15
ENCLOSURE:	TEFC - Premium Efficiency
SPEED:	1800 RPM
FRAME:	405T



Pump Specification

SUCT.FLANGE SIZE 10"	DRILLING ANSI 125 #	FACING FF	FINISH SMOOTH
DISCH.FLANGE SIZE 8"	DRILLING ANSI 125 #	FACING FF	FINISH SMOOTH
PUMP ROTATION (LOOKING	AT PUMP FROM MOTOR)	CW	
TYPE OF LUBRICATION A	EGREASABLE BEARINGS		COOLED NO
TYPE OF STUFFING BOX	STANDARD		COOLED NO
TYPE OF SEALING MEC	HANICAL SEAL	·	

Motor Specification

MOTOR BY	PUMP MFG	MOUNT BY PUMP I	MFG MFG.	PUMP MFG'S CHOICE OR EQUAL	
FRAME	405T	POWER	100.0 hp	RPM 1800	
PHASE	3	FREQUENCY	60 HZ	VOLTS 460	
INSULATION	F	S.F.	1.15		
ENCLOSURE	TEFC - PRE	MIUM EFFICIENCY			

Auxiliary Specification

COUPLING BY	CUSTOMER	CPLG TYPE	REXNORD (FALK) T10 1080T	
CPL GUARD BY	PUMP MFG	CPLG GUARD MATL	CARBON STEEL	
BASEPLATE CAS	T IRON D00091A	l		
MECH.SEAL GOT	ULDS SEALPLUS	SPICS (CARBON VS SIL	ICON CARBIDE)	

Weights and Measurements

PUMP	858.0 lb
MOTOR/CPLG	1,160.0/40.0 lb
BASEPLATE	580.0 lb
TOTAL	2,638.0 lb
GR.VOLUME W/BOX	154.1 ft ³
GR.WEIGHT w/BOX	3,409.0 lb

- Notes and References

 MTR DIMENSIONS ARE APPROXIMATE

 INSTALL FOUNDATION BOLTS IN PIPE SLEEVES

 ALLOW FROM 0.75 to 1.501t. FOR
 GROUTING. SEE INSTRUCTION BOOK FOR DETAILS.
- Foundation bolt grip thickness

FOR PUMP TAPPED OPENINGS REFER TO DWG.: TB230142 / 3410 bare pump 242C182

Job/ing.No.:

Purchaser: CBC INC

End User : NELHA Issued by : Robert Lake Rev.: 0

3410 bare pump 242C182 (Base Offer) Quotation No.: B230142 Date: 09/05/2023 Item/Equip.No.:

Service: Order No. :

Certified By:

Operating Conditions Pump Performance

Published Efficiency: Liquid: water, sea 86.0 % Suction Specific Speed: 8,325 gpm(US) ft 70.0 deg F Rated Pump Efficiency: Min. Hydraulic Flow: 708.4 gpm Temp.: 85.5 % S.G./Visc.: 1.000/1.000 cp Rated Total Power: 92.6 hp Min. Thermal Flow: N/A

3,250.0 gpm Non-Overloading Power: 93.2 hp Flow: Imp. Dia. First 1 Stg(s): 11.7500 in TDH: 95.0 ft

NPSHa: Shut off Head: 149.0 ft 26.7 ft

Solid size: Max. Solids Size: 1.1000 in % Susp. Solids (by wtg):

Vapor Press:

Notes: 1. Curve shown is at ambient temperature conditions.

- Some impeller diameters of this selection will require a taper cut trim. They are indicated in the performance curve below as Major Diameter x Minor Diameter. The Major Diameter is on the suction side of the impeller.

