

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			BPA NO.		1. CONTRACT ID CODE		PAGE 1 OF 8 PAGES		
2. AMENDMENT/MODIFICATION NUMBER 0001			3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NUMBER			5. PROJECT NUMBER (if applicable) 655-22-201	
6. ISSUED BY Department of Veterans Affairs Network Contracting Office (NCO) 10 6150 Oak Tree Blvd., Suite 300 Independence OH 44131			CODE 36C250		7. ADMINISTERED BY (If other than Item 6) Department of Veterans Affairs Network Contracting Office (NCO) 10 24 Frank Lloyd Wright Dr Lobby M-2200 Ann Arbor MI 48105			CODE 36C250	
8. NAME AND ADDRESS OF CONTRACTOR (Number, street, county, State and ZIP Code) To all Offerors/Bidders					(X)		9A. AMENDMENT OF SOLICITATION NUMBER 36C25022B0056		
							9B. DATED (SEE ITEM 11) 07-19-2022		
							10A. MODIFICATION OF CONTRACT/ORDER NUMBER		
							10B. DATED (SEE ITEM 13)		
CODE					FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS									
☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.									
12. ACCOUNTING AND APPROPRIATION DATA (If required)									
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.									
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.								
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).								
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:								
	D. OTHER (Specify type of modification and authority)								
E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return <u>1</u> copies to the issuing office.									
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)									
The purpose of this Amendment is to respond to submitted RFI's. Please see the continuation page for RFI's and responses.									
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.									
15A. NAME AND TITLE OF SIGNER (Type or print)					16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Richmond McCloud				
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)			15C. DATE SIGNED		16B. UNITED STATES OF AMERICA _____ (Signature of Contracting Officer)			16C. DATE SIGNED	

INFORMATION NEEDED:

1. The bid docs allude to simply doing a disconnect and reconnect of the chilled water pumps, are the pumps in fact like for like and match the existing suction and discharge locations?
2. It appears there are older triple duty valves at each pump, are we to reuse these or include new in our pricing/or as an add?

Identifying page, paragraph, and section number:

Document Name: Project+655-22-201+Scope+of+Work

Section: Installation Tasks

Paragraph/bullet point 10- Chilled water pumps

Page #: 2

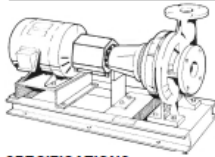
REPLY:

The basis of design pumps are a direct replacement for the existing pumps per the dimensional data provided on the submittal information available from the manufacturer during the design of the project.

The existing triple duty valves are to remain.

ATTACHMENTS: Existing Bell and Gossett Pump Submittal Basis of Design Bell and Gossett Pump Submittal	
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JOB:		REPRESENTATIVE:	
UNIT TAG:	ORDER NO.	DATE:	
ENGINEER:	SUBMITTED BY:	DATE:	
CONTRACTOR:	APPROVED BY:	DATE:	



4E Series 1510 Centrifugal Pumps - Base Mounted

SPECIFICATIONS

FLOW 500 HEAD 100
HP 25 RPM 1800
VOLTS 460
CYCLE 60 PHASE 3
ENCLOSURE _____
APPROX. WEIGHT _____
SPECIALS _____

Note: Equipped with NEOPRENE coupling

MATERIALS OF CONSTRUCTION

☐ BRONZE FITTED ☐ ALL IRON

FEATURES

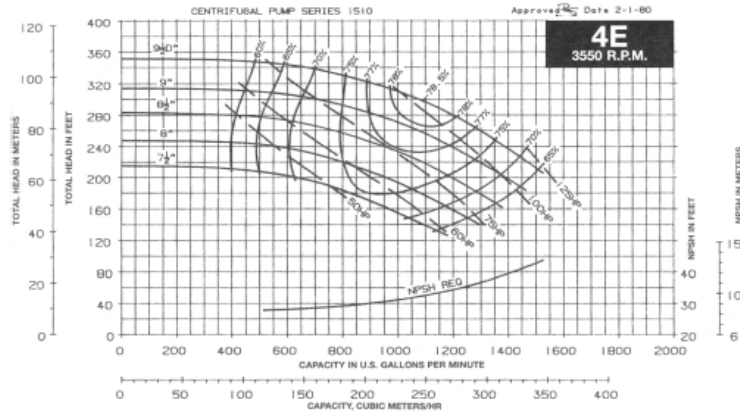
- ☒ i-ALERT™ Condition Monitor
- ☒ ANSI/OSHA Coupling Guard
- ☒ Center Drop Out Spacer Coupling
- ☒ Fabricated Heavy Duty Baseplate

MAXIMUM WORKING PRESSURE

- ☐ 175 psi (12 bar) W.P.
w/125# ANSI flange drilling
- ☐ 250 psi (17 bar) W.P.
w/250# ANSI flange drilling
(requires 1510-S)

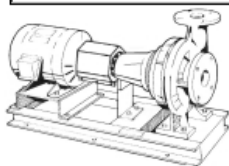
TYPE OF SEAL

- ☐ 1510 Standard Seal
(Buna-Carbon/Ceramic)
- ☐ 1510 -F Standard Seal w/ Flush Line
(Buna-Carbon/Ceramic)
- ☐ 1510 -S Stuffing Box construction w/ Flushed
Mechanical Single Seal
(EPR-Tungsten Carbide/Carbon)
- ☐ 1510 -D Stuffing Box construction w/ Flushed
Double Mechanical Seal
(EPR-Carbon/Ceramic)
Requires external water source
- ☐ 1510 -PF Stuffing Box Construction w/ Packing
(Graphite Impregnated Teflon)



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JOB: UNIT TAG: ENGINEER: CONTRACTOR:	REPRESENTATIVE: ORDER NO. SUBMITTED BY: APPROVED BY:	DATE: DATE: DATE:
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4E

Series 1510

Centrifugal Pumps - Base Mounted

SPECIFICATIONS

FLOW _____ HEAD _____

HP _____ RPM _____

VOLTS _____

CYCLE _____ PHASE _____

ENCLOSURE _____

APPROX. WEIGHT _____

SPECIALS _____

Note: Equipped with NEOPRENE coupling

MATERIALS OF CONSTRUCTION

☐ BRONZE FITTED ☐ ALL IRON

FEATURES

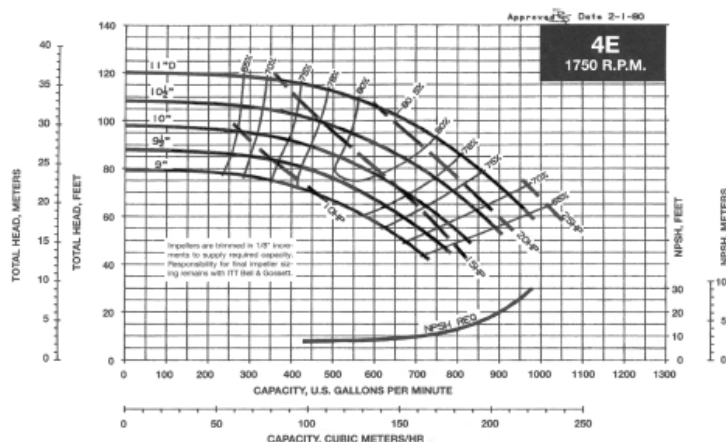
- ☒ i-ALERT™ Condition Monitor
- ☒ ANSI/OSHA Coupling Guard
- ☒ Center Drop Out Spacer Coupling
- ☒ Fabricated Heavy Duty Baseplate

MAXIMUM WORKING PRESSURE

- ☐ 175 psi (12 bar) W.P.
w/125# ANSI flange drilling
- ☐ 250 psi (17 bar) W.P.
w/250# ANSI flange drilling
(requires 1510-S)

TYPE OF SEAL

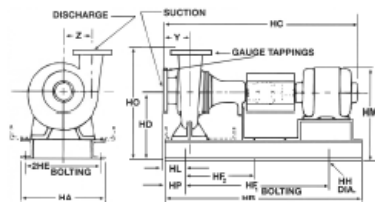
- ☐ 1510 Standard Seal
(Buna-Carbon/Ceramic)
- ☐ 1510 -F Standard Seal w/ Flush Line
(Buna-Carbon/Ceramic)
- ☐ 1510 -S Stuffing Box construction w/ Flushed
Mechanical Single Seal
(EPR-Tungsten Carbide/Carbon)
- ☐ 1510 -D Stuffing Box construction w/ Flushed
Double Mechanical Seal
(EPR-Carbon/Ceramic)
Requires external water source
- ☐ 1510 -PF Stuffing Box Construction w/ Packing
(Graphite Impregnated Teflon)



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Series 1510 4E Centrifugal Pump Submittal

B-225.9F



FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	4" (102)	1-1/4" (32)	9-1/2" (241)
Suction	5" (127)	1-3/8" (35)	10-3/4" (273)

FLANGES ARE 125# ANSI - STANDARD
250# ANSI - AVAILABLE

DIMENSIONS - Inches (mm)

STANDARD SEAL 1510, 1510-F

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
"S" FRAME														
213T	16 (406)	42-1/4 (1073)	37-1/2 (952)	14 (356)	14 (356)	32-1/4 (819)	16-1/8 (410)	7/8 (22)	6-11/16 (170)	19-7/8 (505)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
215T	16 (406)	42-1/4 (1073)	39 (991)	14 (356)	14 (356)	32-1/4 (819)	16-1/8 (410)	7/8 (22)	6-11/16 (170)	19-7/8 (505)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
254T	16 (406)	42-1/4 (1073)	42-3/4 (1086)	14 (356)	14 (356)	32-1/4 (819)	16-1/8 (410)	7/8 (22)	6-11/16 (170)	20-7/8 (530)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
"L" FRAME														
256T	16 (406)	46-1/2 (1181)	48-3/8 (1229)	14 (356)	14 (356)	36-1/2 (927)	18-1/4 (464)	7/8 (22)	4-5/16 (110)	20-7/8 (530)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
284T	16 (406)	51-3/4 (1314)	49-1/8 (1248)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	22 (569)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
286TS	16 (406)	51-3/4 (1314)	50-5/8 (1286)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	22 (569)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
324TS	16 (406)	51-3/4 (1314)	51-1/8 (1299)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	23-1/8 (587)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
326TS	16 (406)	51-3/4 (1314)	52-5/8 (1337)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (123)	23-1/8 (587)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
364TS	24 (610)	56 (1422)	54-3/8 (1381)	16-1/2 (419)	21-1/2 (546)	44 (1118)	22 (559)	1 (25)	4-15/16 (125)	26-3/4 (679)	26-1/4 (667)	6 (152)	5-9/16 (141)	7-1/4 (184)
365TS	24 (610)	56 (1422)	55-1/8 (1400)	16-1/2 (419)	21-1/2 (546)	44 (1118)	22 (559)	1 (25)	4-15/16 (125)	26-3/4 (679)	26-1/4 (667)	6 (152)	5-9/16 (141)	7-1/4 (184)
404TS	24 (610)	56 (1422)	57-3/8 (1457)	16-1/2 (419)	21-1/2 (546)	44 (1118)	22 (559)	1 (25)	4-15/16 (125)	28-3/8 (721)	26-1/4 (667)	6 (152)	5-9/16 (141)	7-1/4 (184)

STUFFING BOX 1510-PF, 1510-S, 1510-D

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
"S" FRAME														
213T	16 (406)	42-1/4 (1073)	41-1/8 (1044)	14 (356)	14 (356)	32-1/4 (819)	16-1/8 (409)	7/8 (22)	6-11/16 (170)	19-7/8 (505)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
215T	16 (406)	42-1/4 (1073)	42-5/8 (1083)	14 (356)	14 (356)	32-1/4 (819)	16-1/8 (409)	7/8 (22)	6-11/16 (170)	19-7/8 (505)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
254T	16 (406)	42-1/4 (1073)	46-3/8 (1178)	14 (356)	14 (356)	32-1/4 (819)	16-1/8 (409)	7/8 (22)	6-11/16 (170)	20-7/8 (530)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
"L" FRAME														
256T	16 (406)	51-3/4 (1314)	50-7/8 (1292)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	20-7/8 (530)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
284T	16 (406)	51-3/4 (1314)	51-1/2 (1308)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	22 (569)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
286TS	16 (406)	51-3/4 (1314)	53 (1348)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	22 (569)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
324TS	16 (406)	51-3/4 (1314)	53-1/2 (1359)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	23-1/8 (587)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
326TS	16 (406)	51-3/4 (1314)	55-1/8 (1400)	14 (356)	14 (356)	41-3/4 (1060)	20-7/8 (530)	7/8 (22)	4-5/16 (110)	23-1/8 (587)	23-3/4 (603)	5 (127)	5-9/16 (141)	7-1/4 (184)
364TS	24 (610)	56 (1422)	56-7/8 (1444)	16-1/2 (419)	21-1/2 (546)	44 (1118)	22 (559)	1 (25)	4-15/16 (125)	26-3/4 (679)	26-1/4 (667)	6 (152)	5-9/16 (141)	7-1/4 (184)
365TS	24 (610)	56 (1422)	57-1/2 (1460)	16-1/2 (419)	21-1/2 (546)	44 (1118)	22 (559)	1 (25)	4-15/16 (125)	26-3/4 (679)	26-1/4 (667)	6 (152)	5-9/16 (141)	7-1/4 (184)
404TS	24 (610)	56 (1422)	59-3/4 (1518)	16-1/2 (419)	21-1/2 (546)	44 (1118)	22 (559)	1 (25)	4-15/16 (125)	28-3/8 (721)	26-1/4 (667)	6 (152)	5-9/16 (141)	7-1/4 (184)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

Xylem Inc.
8200 N. Austin Avenue
Morton Grove, IL 60053

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Job/Project:	Representative:
ESP-Systemwide: WIZE-322F31	Created On: 03/15/2022
Location/Tag:	Phone:
Engineer:	Email:
Contractor:	Submitted By:
	Approved By:
	Date:
	Date:

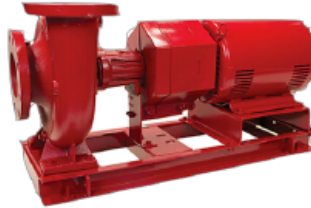
Base Mounted End Suction Pump

Series: e-1510

Model: 4EB

Features & Design

- ANSI/OSHA Coupling Guard
- Center Drop Out Spacer Coupling
- Fabricated Heavy Duty Baseplate
- Internally Self-Flushing Mechanical Seal



*The Bell & Gossett Series e-1510 is available in 26 sizes and a variety of configuration options that enable customization and flexibility to fit a broad range of operating conditions.

<http://bellgossett.com/pumps-circulators/end-suction-pumps/e-1510/>

Pump Selection Summary

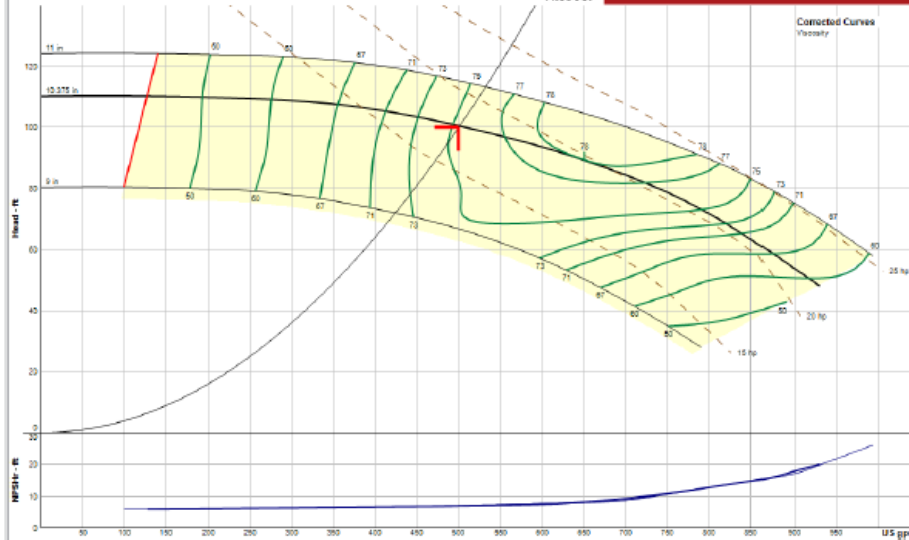
Duty Point Flow	500 US gpm
Duty Point Head	100 ft
Control Head	0 ft
Duty Point Pump Efficiency	75.2 %
Part Load Efficiency Value (PLEV)	0.0 %
Impeller Diameter	10.375 in
Motor Power	25 hp
Duty Point Power	17.7 bhp
Motor Speed	1800 rpm
RPM @ Duty Point	1750 rpm
NPSHr	7.06 ft
Minimum Shutoff Head	110 ft
Minimum Flow at RPM	130 US gpm
Flow @ BEP	650 US gpm
Fluid Temperature	45 °F
Fluid Type	50% Propylene glycol
Weight (approx. - consult rep for exact)	693 lbs
Pump Floor Space Calculation	7.23 ft²

Performance Curve

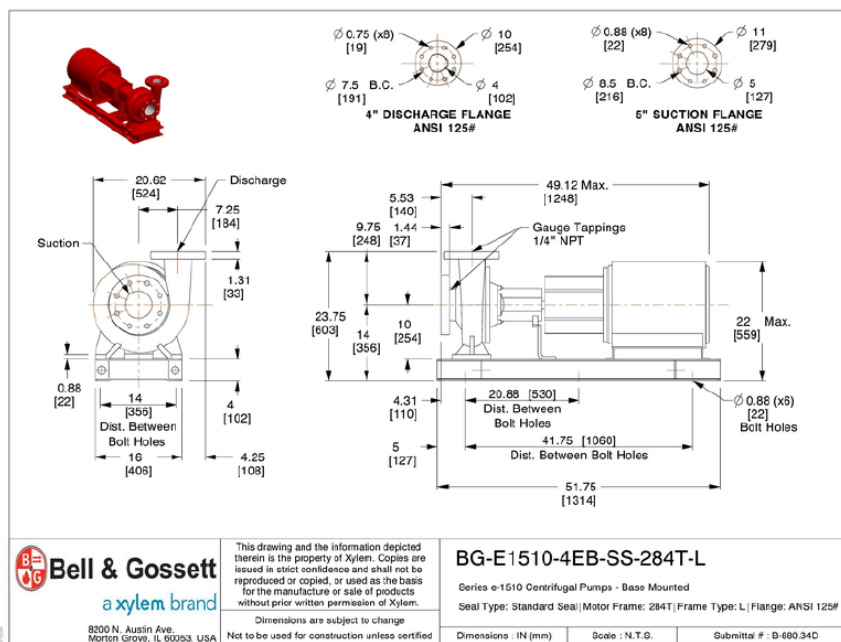
Energy Efficiency Ratings:
Pump & Motor PEIc: 0.94 ERcI: 6
Pump, Motor & Drive: PEIv: 0.46 ERvI: 54



e-1510
4EB
1750 RPM



Specific Gravity: 1.0481, Viscosity: 12.651 | Performance curve meets 14.6 / ISO 9906 acceptance criteria | Available Phase: 3, Available Voltage(s) [V]: 200, 230/460, 575



Standard Mechanical Configuration

Standard Mechanical Seal	SM, LG, & XL Bearing Frames	ES Bearing Frame
Temperature Range	-20 to 225°F	-20 to 225°F
Maximum Pressure	175 PSI	175 PSI
pH Limitations	7.0 - 9.0	7.0 - 9.0
Elastomer	Buna	Buna
Rotating Face	Carbon	Carbon
Stationary Face	Ceramic	Silicon Carbide
Hardware	Stainless Steel / Brass	Stainless Steel

Mechanical Seal Options	SM, LG, & XL Bearing Frames	ES Bearing Frame
Temperature Range	-20 to 250°F	-10 to 225°F
Maximum Pressure	175 PSI	175 PSI
pH Limitations	7.0 - 11.0	7.0 - 9.0
Elastomer	EPR (Ethylene Propylene Rubber)	FKM (Viton® or Fluorocarbon)
Rotating Face	Carbon	Carbon
Stationary Face	Tungsten Carbide	Silicon Carbide
Hardware	Stainless Steel / Brass	Stainless Steel

Mechanical Seal Options	ES Bearing Frame	ES Bearing Frame
Temperature Range	-20 to 250°F	-10 to 225°F
Maximum Pressure	175 PSI	175 PSI
pH Limitations	7.0 - 11.0	7.0 - 9.0
Elastomer	EPR (Ethylene Propylene Rubber)	FKM (Viton® or Fluorocarbon)
Rotating Face	Silicon Carbide	Carbon
Stationary Face	Tungsten Carbide	Silicon Carbide
Hardware	Stainless Steel / Brass	Stainless Steel

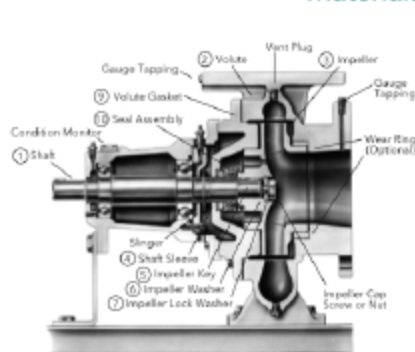
Stuffing Box Configuration

Mechanical Seal	SM, LG, & XL Bearing Frames
Temperature Range	-20 to 250°F*
Maximum Pressure	175 PSI (Optional 250 PSI)
pH Limitations	7.0 - 11.0
Elastomer	EPR (Ethylene Propylene Rubber)
Rotating Face	Tungsten Carbide
Stationary Face	Carbon
Hardware	Stainless Steel

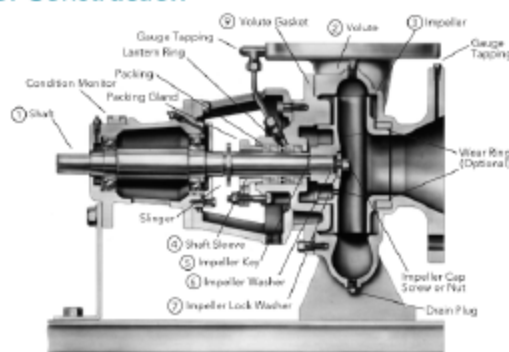
Packing Option	
Temperature Range	0 to 250°F
Maximum Pressure	175 PSI
pH Limitations	7.0 - 9.0
Material	Braided Graphite Impregnated PTFE

* For operating temperatures above 250°F, a cool-down flush is required and is recommended for temperatures above 225°F for optimum seal life. On closed systems, cooling is accomplished by inserting a small heat exchanger in the flush line to cool the seal flushing fluid. Rush-line Filters and Sediment Separators are available on special request.

Materials of Construction



Standard Configuration



Optional - S Configuration

Description	SM, LG, & XL Bearing Frames	ES Bearing Frame
1 Shaft	ASTM 108 Grade 1144	ASTM 108 Grade 1144
2 Volute	Cast Iron ASTM A48 Class 30B	Cast Iron ASTM A48 Class 30B
3 Impeller	ASTM A743 Grade CF8 - 304 Stainless Steel	ASTM A743 Grade CF8 - 304 Stainless Steel
4 Shaft Sleeve	ASTM 312 Grade TP304 - 304 Stainless Steel	ASTM 312 Grade TP304 - 304 Stainless Steel
5 Impeller Key	#304 Stainless Steel	NA
6 Impeller Washer	Steel	NA
7 Impeller Lock Washer	#304 Stainless Steel (18-8 XL FRM)	NA
8 Impeller Cap Screw	#304 Stainless Steel	NA
9 Impeller Nut	NA	316 Stainless Steel
10 Volute Gasket	Cellulose Fiber	Cellulose Fiber
10 Seal Assembly	Reference Seal Data Tables	Reference Seal Data Tables

Pump Options

- Stainless Steel Volute Wear Ring
- Galvanized Steel Drip Pan
- Stainless Steel Shaft
- Rexnord Omega Spacer Coupling
- Falk T31 Spacer Coupling
- External Flush Line
- Stuffing Box Configuration
- Epoxy Coated Internal Cast Iron Components
- Special Impeller Balancing (ISO 1940 G2.5 or G1.0)
- Certified Performance Tests (Per HI Standard 14.6)
- 250 PSI Working Pressure



Xylem Inc.
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www.bellgosssett.com
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W024-402301