



Primary Engineering, Inc
 2828 Lake Ave.
 Fort Wayne, Indiana 46805

(260) 424-0444 phone
 info@primary-eng.com

Transmittal

To: Andrea Azzarita **Date:** 07/27/2021
Firm: Maxwell Construction
Project #: 20160
Project Name: Lawrenceburg High School Interior Renovations

Enclosed here within is the following:

Spec Section	Description
232123	Hydronic Pumps

Notes:

Commission No. 20160

Shop Drawing Review

Spec. Sections:

Review No. 1

- REVIEWED & RELEASED
- REVIEWED & RELEASED WITH CORRECTIONS
- REVISE & RESUBMIT
- REJECTED
- NO ACTION REQUIRED
- SEE TRANSMITTAL FOR NOTES



Reviewing is only for conformance with the design intent of the project and compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve Contractor from compliance with the requirements of the plans and specifications. Acceptance of a specific item shall not include acceptance of an assembly of which the item is a component. Contractor is solely responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to techniques and procedures of construction; manufacturer's instructions, industry standards, and for coordination of the work with all trades.

Reviewed by:

Date: 07/27/2021

Primary Engineering, Inc

www.primary-eng.com

LCSC - Lawrenceburg High School

100 Tiger Blvd
Lawrenceburg, Indiana 47025
United States



Maxwell Construction
440 Nowlin Ave
Greendale, Indiana 47025
United States
(812) 537-2200

Title	Submittal Manager
Hydronic Pumps : Product Data	Andy Azzarita
Spec Section	Type
23 21 23 - Hydronic Pumps	Product Data
Number	Rev
23 21 23-1	0
	7/21/2021

Description

A. Product Data: For each type of pump. 1. Include certified performance curves and rated capacities, operating characteristics, furnished specialties, final impeller dimensions, and accessories for each type of product indicated. 2. Indicate pump's operating point on curves.

MAXWELL CONSTRUCTION COMPANY

DESIGN * BUILD * ENGINEERING

GREENDALE, INDIANA

- Reviewed Rejected
 Reviewed as noted Revise and Resubmit

These documents have been checked for compliance with the design concept and for compliance with the contract documents. Review is subject to verification of field measurements by the Subcontractor/Supplier. This review does not relieve the Subcontractor/Supplier from errors, omissions, or deviations from the contract documents unless approved in writing by Maxwell Const.



Tritonservices, inc.

8162 Duke Boulevard
Mason, OH 45040

Phone: 513-679-6800

Fax: 513-679-6800

<http://www.tritonservicesinc.com>

Submittal:

Hydronic Pumps

Spec Section: 23 21 23

Attention: Cody Hudepohl

Phone: 812-537-2200

Fax: 812-537-2388

Cell: (827-2982

Email:

Job Name: LCS Lawrenceburg High School

Job #: 216216

PM: Jason Manning

To:

Maxwell Construction
Attention: Cody Hudepohl
440 Nowlin Avenue

Greendale, IN 47025

Phone: 812-537-2200

Fax: 812-537-2388

Submittal All Schools

Notes:

Comments:

Contacts:

Architect

Lancer + Beebe

,
220 N. College Avenue,
Indianapolis, OH, 46202

Phone: 317-750-5373

Fax:

General Contractor

Maxwell Construction
Cody Hudepohl, Project Manager
440 Nowlin Avenue,
Greendale, IN, 47025
Phone: 812-537-2200

Fax: 812-537-2388

Architect

Lancer + Beebe

,
220 N. College Avenue,
Indianapolis, OH, 46202

Phone: 317-750-5373

Fax:

Reviewed For Submittal Approved

Review does not relieve supplier from compliance with requirements of the drawings and specifications or conformance with contract documents.

By: _____ Date: _____

Jason Manning

blackmore and



Date: 6/15/2021

To: Triton Services

Attention: Brent Ernsthause

Subject: Lawrenceburg HS

Please advise the following:

- We thank you for your purchase order # TS-216216-087921
- Your order will be held pending releasing instructions.
- One (1) copy of prints is attached.
- Please return one set of approved submittals. The equipment will not be released without a copy of the approved submittals.

Sincerely,

Tyler Crone/dm
Blackmore and Glunt, Inc.

Qty	Description & Tag
Greendale Middle School	
	Tag: P-1 Greendale MS HW
1	B&G Base Mounted Pump Series e-1510, Model 2 AD, SS, 15 HP, 3600 RPM, 215T Frame, with 6.75" Impeller, STD-Seal, ODP, NEMA Premium Efficient, SGR, 230/460/3/60 Motor, 250 gpm, 140 ft
	Tag: For P-1 HW Suction Side
1	Metraflex SDFL90R Flow Straightening Flex Connector with Integral Straightening Vanes 4-inch System x 2.5-inch Pump 125# Flanged Connections
	Tag: For P-1 HW Discharge Side
1	Metraflex RMF-2x4 inch flange concentric increasing stainless steel flex connector 12.75-inch OAL
	Tag: For P-1 HW
1	B&G VFD, 15HP, 460 VOLT, 3PH, IP21 NEMA 1 w BACKPL, DISC, ADV
High School	
	Tag: P-2, 3 HW
2	B&G Base Mounted Pump Series e-1510, Model 3 GB, SS, 25 HP, 1800 RPM, 284T Frame, with 12.5" Impeller, STD-Seal, DPPE, Nema Premium Eff, w/Aegis sgr, Inverter Duty, 230/460/3/60 Motor, 500 gpm, 110 ft
	Tag: P-4, 5 CHW
2	B&G Base Mounted Pump Series e-1510, Model 3 GB, SS, 20 HP, 1800 RPM, 256T Frame, with 11.75" Impeller, STD-Seal, DPPE, Nema Premium Eff, w/Aegis sgr, Inverter Duty, 230/460/3/60 Motor, 400 gpm, 110 ft
	Tag: P-6 Pool Heater
1	B&G Base Mounted Pump Series e-1510, Model 1.25 AD, SS, 2 HP, 1800 RPM, 145T Frame, with 7" Impeller, STD-Seal, Nema Premium Eff, w/Aegis sgr, Inverter Duty, 230/460/3/60 Motor, 60 gpm, 50 ft
	Tag: For P-6 Suction
1	Metraflex SSTT-2-inch NPT stainless steel flex connector 10.5-inch OAL
	Tag: For P-6 Discharge
1	Metraflex SSTT-1.25-inch NPT stainless steel flex connector 8.5-inch OAL

Job Name: Lawrenceburg High School
 Engineer: Primary Engineering, Inc.
 Contractor: Triton Services

blackmore and glunt, inc.



11435 Williamson Rd.

Cincinnati, OH 45241

PH: 513.489.5225

Prepared By: Tyler Crone/dm

Date: 6/15/2021

Qty	Description & Tag
4	<p>Tag: For P-2, 3, 4, 5 Suction Metraflex SDFL90R Flow Straightening Flex Connector with Integral Straightening Vanes 6-inch System x 4-inch Pump 125# Flanged Connections</p>
4	<p>Tag: P-2, 3, 4, 5 Discharge Metraflex RMF-3 x 6-inch flange concentric increasing stainless steel flex connector 16.25-inch OAL</p>
1	<p>Tag: ADS-1 CHW B&G CRS-8F Coalescing Combo Separator, 8 In. Flange, Standard Velocity, Removable Head, 150#</p>
1	<p>Tag: For ADS-1 B&G TP2-12 Trim Pack</p>
1	<p>Tag: ET-1 CHW B&G B1000 Series B ASME Bladder Tank (264 GAL), 125 PSI.</p>
1	<p>Tag: For ET-1 B&G TPV-1-1/2FM Tank Purge Valve</p>

Job Name: Lawrenceburg High School
 Engineer: Primary Engineering, Inc.
 Contractor: Triton Services



11435 Williamson Rd.

Cincinnati, OH 45241

PH: 513.489.5225

Prepared By: Tyler Crone/dm

Date: 6/15/2021

JOB: 20-15098 Lawrenceburg High School

REPRESENTATIVE: Blackmore and Glunt - Cincinnati

UNIT TAG: P-1 Greendale MS HW
ENGINEER: Primary Engineering, Inc.
CONTRACTOR: Triton Services

ORDER NO.
SUBMITTED BY: Tyler Crone
APPROVED BY:

DATE: 6/15/2021
DATE:
DATE:



Series e-1510 2AD Base Mounted End Suction Pump

DESCRIPTION:

The 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. Flows up to 4950 GPM heads to 534 feet.

SPECIFICATIONS

FLOW	250	HEAD	140
HP	15	RPM	3600
VOLTS			230/460
CYCLE	60	PHASE	3
ODP Rep Selected: (123020-1), NEMA Premium Efficient, Special Option: SGR			
ENCLOSURE		PREMIUM EFF	
APPROX. WEIGHT		390	
SPECIALS			

Note: Equipped with NEOPRENE coupling

MATERIALS OF CONSTRUCTION

Stainless Steel Fitted

FEATURES

- 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

PUMP VARIABLE SPEED CONTROL

- Integrated Technologic® Sensorless Control (ITSC)
- Integrated Technologic® (IT)
- External input by others
- Pressure Sensor(s)
- Differential Pressure Sensor(s)
- Flow Sensor(s) By Others

PARALLEL PUMPING SYSTEM

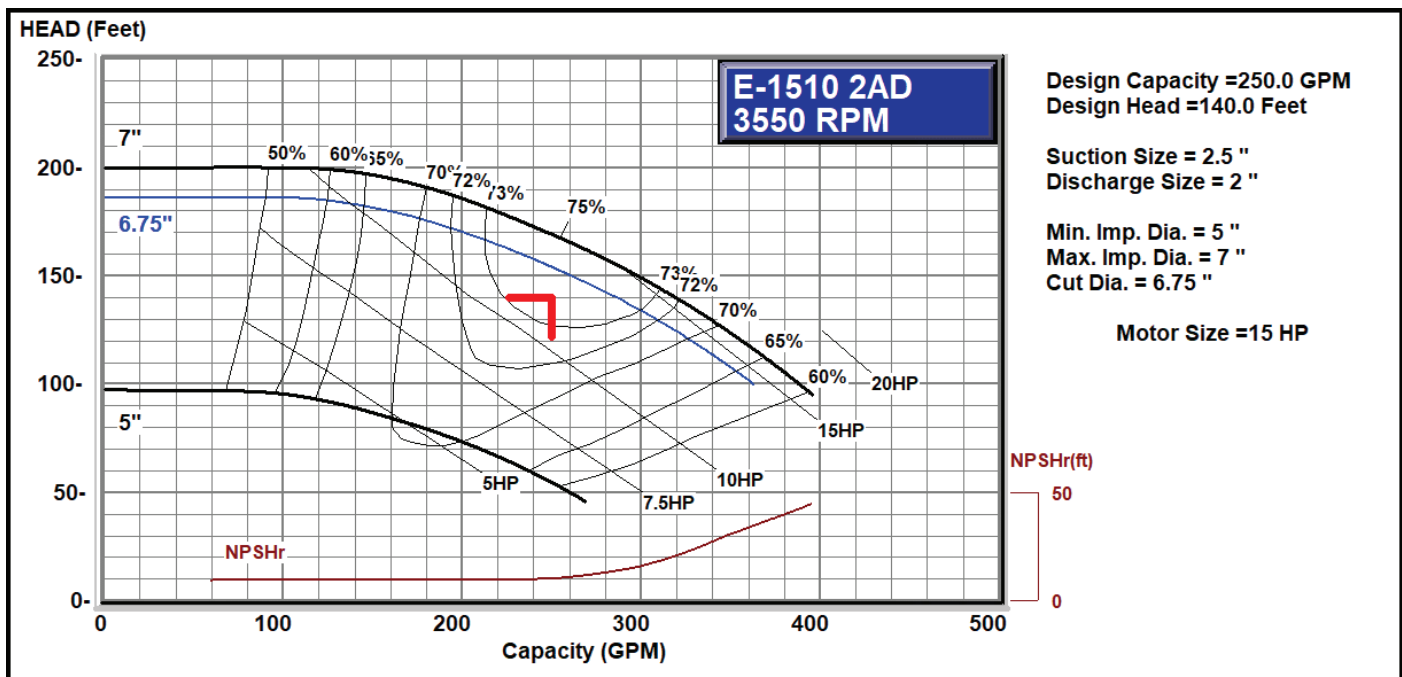
- Sensorless Control (ITSC)
- Sensored Control (IT)

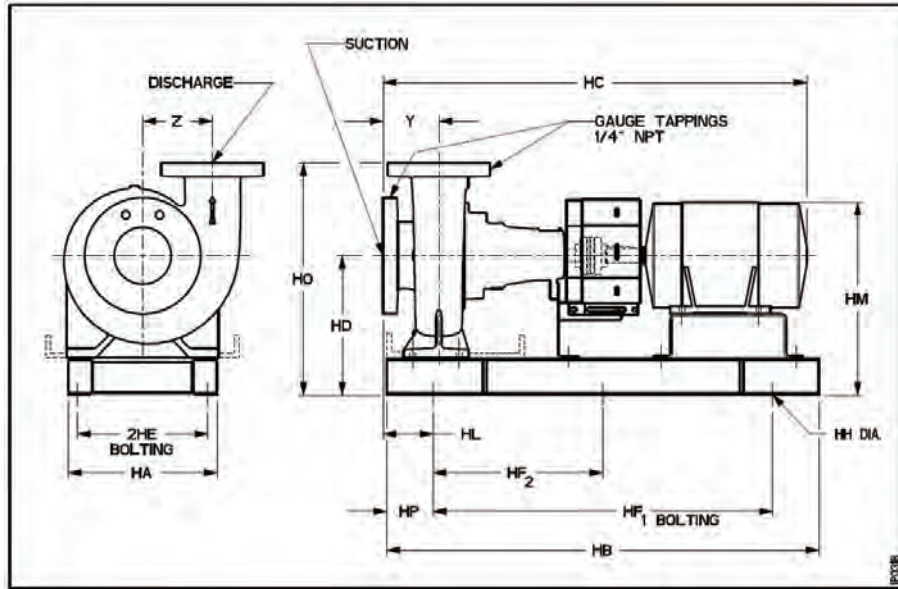
PARALLEL SENSORLESS CONTROLLER

- Pump Mounted
- Wall Mounted
- _____ Pumps in Parallel

TYPE OF SEAL

- Standard Seal
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- F Standard Seal w/ Flush Line
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- S Stuffing Box construction w/ Flushed Mechanical Single Seal
(EPR-Tungsten Carbide/Carbon)
-20° to 250° F (-29° to 121° C)
Max Working Pressure 175 psi (12 bar)
- PF Stuffing Box Construction w/ Flushed Packing
(Graphite Impregnated Teflon)
0° to 250° F (-17° to 121° C)
Max Working Pressure 175 psi (12 bar)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	2"	.63 (16)	6" (152)
Suction	2.5	.69 (17)	7.13 (181)

FLANGES ARE 125# ANSI - STANDARD

DIMENSIONS – Inches (mm)

STANDARD SEAL

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
"S" FRAME														
56	12 (305)	28.75 (730)	28.88 (733)	9.75 (248)	10.25 (260)	22.5 (572)	-	.75 (19)	3.56 (90)	13.38 (340)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
143T	12 (305)	28.75 (730)	29 (737)	9.75 (248)	10.25 (260)	22.5 (572)	-	.75 (19)	3.56 (90)	13.5 (343)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
145T	12 (305)	28.75 (730)	30 (762)	9.75 (248)	10.25 (260)	22.5 (572)	-	.75 (19)	3.56 (90)	13.5 (343)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
182T	14.63 (371)	31 (787)	32.63 (829)	9.75 (248)	12.88 (327)	25 (635)	-	.75 (19)	2.19 (56)	15 (381)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
184T	14.63 (371)	31 (787)	33.38 (848)	9.75 (248)	12.88 (327)	25 (635)	-	.75 (19)	2.19 (56)	15 (381)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
213T	14.63 (371)	34.63 (879)	36 (914)	9.75 (248)	12.88 (327)	28.63 (727)	-	.75 (19)	2.19 (56)	15.63 (397)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
215T	14.63 (371)	34.63 (879)	37.5 (953)	9.75 (248)	12.88 (327)	28.63 (727)	-	.75 (19)	2.19 (56)	15.63 (397)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
254T	14.63 (371)	39.38 (1000)	41.25 (1048)	10.75 (273)	12.88 (327)	33.38 (848)	-	.75 (19)	2.19 (56)	17.63 (448)	17.25 (438)	3 (76)	3.5 (89)	4.75 (121)
256T	14.63 (371)	39.38 (1000)	43 (1092)	10.75 (273)	12.88 (327)	33.38 (848)	-	.75 (19)	2.19 (56)	17.63 (448)	17.25 (438)	3 (76)	3.5 (89)	4.75 (121)

STUFFING BOX

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
"S" FRAME														
56	14.63 (371)	34.63 (879)	32.38 (822)	9.75 (248)	12.88 (327)	28.63 (727)	-	.75 (19)	2.19 (56)	13.38 (340)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
143T	14.63 (371)	34.63 (879)	32.5 (826)	9.75 (248)	12.88 (327)	28.63 (727)	-	.75 (19)	2.19 (56)	13.5 (343)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
145T	14.63 (371)	34.63 (879)	33.5 (851)	9.75 (248)	12.88 (327)	28.63 (727)	-	.75 (19)	2.19 (56)	13.5 (343)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
182T	14.63 (371)	34.63 (879)	36.25 (921)	9.75 (248)	12.88 (327)	28.63 (727)	-	.75 (19)	2.19 (56)	15 (381)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
184T	14.63 (371)	34.63 (879)	37 (940)	9.75 (248)	12.88 (327)	28.63 (727)	-	.75 (19)	2.19 (56)	15 (381)	16.25 (413)	3 (76)	3.5 (89)	4.75 (121)
"L" FRAME														
213T	16 (406)	46.5 (1181)	42.75 (1086)	11 (279)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	3.31 (84)	16.88 (429)	17.5 (445)	5 (127)	3.5 (89)	4.75 (121)
215T	16 (406)	46.5 (1181)	44.25 (1124)	11 (279)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	3.31 (84)	16.88 (429)	17.5 (445)	5 (127)	3.5 (89)	4.75 (121)
254T	16 (406)	51.75 (1314)	48 (1219)	12 (305)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	3.31 (84)	18.88 (479)	18.5 (470)	5 (127)	3.5 (89)	4.75 (121)
256T	16 (406)	51.75 (1314)	49.75 (1264)	12 (305)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	3.31 (84)	18.88 (479)	18.5 (470)	5 (127)	3.5 (89)	4.75 (121)

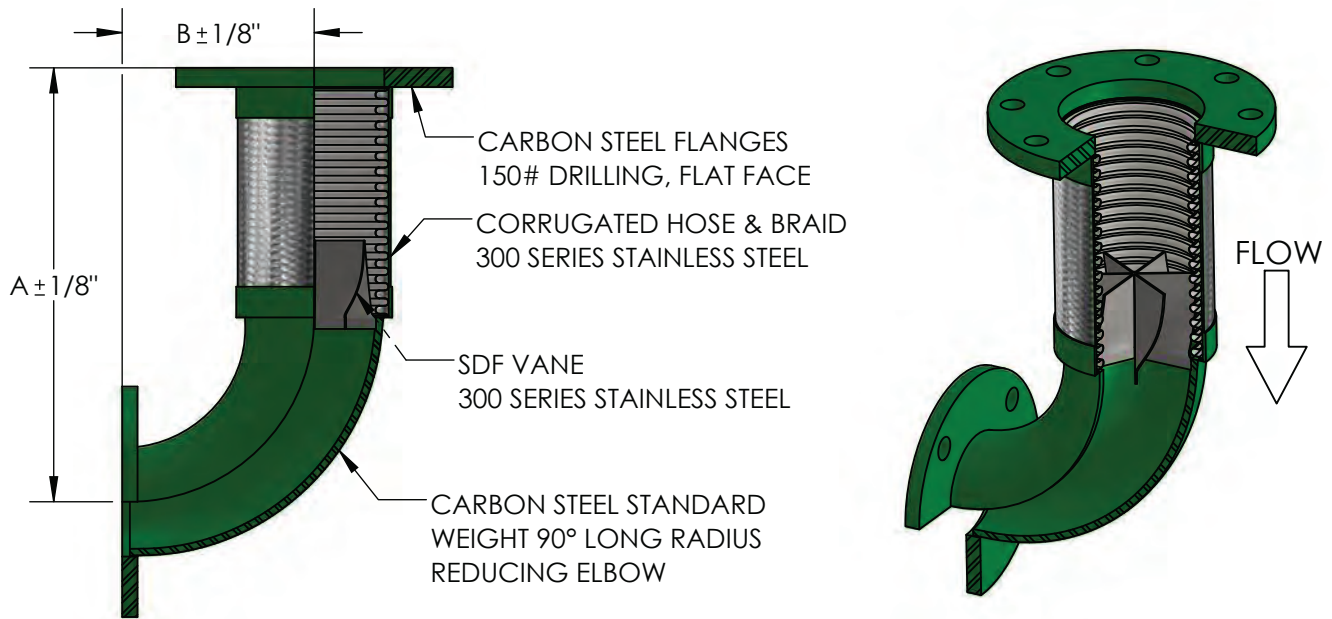
Dimensions are subject to change. Not to be used for construction purposes unless certified.



Xylem Inc.
 8200 N. Austin Avenue, Morton Grove, IL 60053
 Phone: (847)966-3700 Fax: (847)965-8379
 www.xylem.com/bellgossett
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MODEL SDFL90R

SUCTION DIFFUSER FLEX WITH 150# PLATE FLANGES AND REDUCING LR ELBOW



QTY	PART NUMBER	PIPE SIZE		A	B	PRESSURE RATING (PSI)*	WEIGHT (LBS)	PROJECT INFORMATION
		LARGER	SMALLER					
	SDFL90R2502	2-1/2"	2"	12-1/4"	4"	387	19	
	SDFL90R0302	3"	2"	13"	4-3/4"	316	21	
	SDFL90R0325	3"	2-1/2"	13"	4-3/4"	316	22	
	SDFL90R0402	4"	2"	14-1/2"	6-1/4"	232	28	
1	SDFL90R0425	4"	2-1/2"	14-1/2"	6-1/4"	232	29	For P-1 MS Suct. Side
	SDFL90R0403	4"	3"	14-1/2"	6-1/4"	232	31	
	SDFL90R0525	5"	2-1/2"	18"	7-3/4"	191	38	
	SDFL90R0503	5"	3"	18"	7-3/4"	191	40	
	SDFL90R0504	5"	4"	18"	7-3/4"	191	43	
	SDFL90R0603	6"	3"	19-1/2"	9-1/4"	165	50	
	SDFL90R0604	6"	4"	19-1/2"	9-1/4"	165	53	
	SDFL90R0605	6"	5"	19-1/2"	9-1/4"	165	56	
	SDFL90R0804	8"	4"	23-1/4"	12-1/4"	234	97	
	SDFL90R0805	8"	5"	23-1/4"	12-1/4"	234	100	
	SDFL90R0806	8"	6"	23-1/4"	12-1/4"	234	104	
	SDFL90R1006	10"	6"	27-1/4"	15-1/4"	230	158	
	SDFL90R1008	10"	8"	27-1/4"	15-1/4"	230	163	
	SDFL90R1210	12"	10"	31-1/4"	18-1/4"	161	233	


*FOR SAFE WORKING PRESSURE ABOVE 70°F, MULTIPLY THE PRESSURE SHOWN AT 70°F TIMES THE CORRECTION FACTOR OF THE REQUIRED TEMPERATURE.

TEMPERATURE (°F)	FACTOR
70	1.0
200	.91
300	.85
400	.78
500	.77
600	.76

MAX INTERMITTENT OFFSET FROM CENTERLINE 1/8"
MAX PERMANENT OFFSET FROM CENTERLINE 3/8"

NSF 372 - LEAD FREE

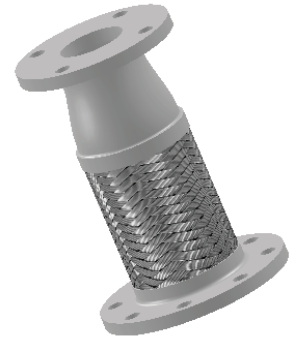
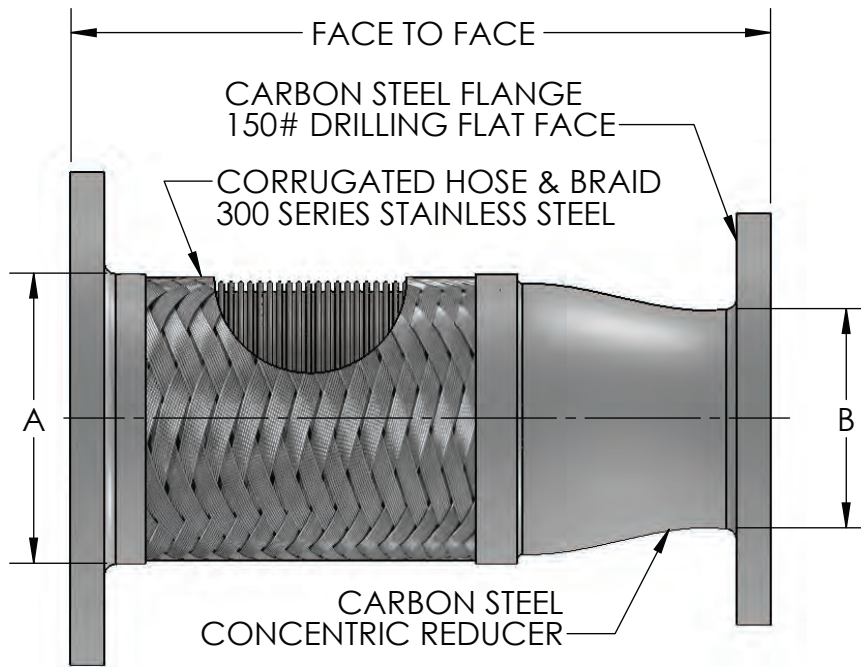
The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content.

REV.	1	TEMP FACTOR UPDATED	DATE 1/4/2017
		2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM	
<h2>MODEL SDFL90R</h2> <p>SDF, 150# PLATE FLANGES, REDUCING LR ELBOW</p>			
DRAWN BY: DKISH		DATE: 11/22/2013	
APPROVED: JC		DATE: 11/22/2013	
SCALE:	N/A	DRAWING NUMBER:	SDFL90R-1

CUSTOMER: Triton Services

PROJECT: Lawrenceburg HS

ENGINEER: Primary Engineering, Inc.



*For safe working pressure above 70°F, multiply the pressure shown at 70°F times the correction factor of the required temperature.

Temperature (°F)	Factor
70	1.0
200	.92
300	.86
400	.82
500	.77
600	.73

Qty	Model #	A (in)	B (in)	F/F (in)	Pressure* (PSI)	Weight (Lbs)	Project Info
	RMF0215	2	1-1/2	12-1/4	345	10	
	RMF2502	2-1/2	2	12-1/4	345	15	
	RMF0302	3	2	12-1/4	289	17	
	RMF0325		2-1/2				
1	RMF0402	4	2	12-3/4	300	22	For P-1 HW Discharge Side Greendale MS
	RMF0425		2-1/2				
	RMF0403		3				
	RMF0525	5	2-1/2	15-3/4	220	31	
	RMF0503		3				
	RMF0504		4				
	RMF0602	6	2	16-1/4	200	36	
	RMF0625		2-1/2				
	RMF0603		3				
	RMF0604		4				
	RMF0605		5				
	RMF0804	8	4	17-1/2	190	65	
	RMF0805		5				
	RMF0806		6				
	RMF1006	10	6	19-1/2	150	97	
	RMF1008		8				
	RMF1206	12	6	21-1/2	125	137	
	RMF1208		8				
	RMF1210		10				

MAX INTERMITTENT OFFSET FROM CENTERLINE 1/8"
 MAX PERMANENT OFFSET FROM CENTERLINE 3/8"

LEAD FREE

The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content.

CUSTOMER: Triton Services

PROJECT: Lawrenceburg HS

ENGINEER: Primary Engineering, Inc.

REV.	DATE
2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM	
<h2>MODEL RMF</h2> <h3>STAINLESS STEEL REDUCING CONNECTOR</h3>	
DRAWN BY: DKISH	DATE: 1/10/2014
APPROVED: JC	DATE: 1/10/2014
SCALE: NONE	DRAWING NUMBER: RMF

JOB: 20-15098 Lawrenceburg High School

REPRESENTATIVE: Blackmore and Glunt - Cincinnati

UNIT TAG: For P-1 HW Greendale MS

ORDER NO.
DATE: 6/15/2021

ENGINEER: Primary Engineering, Inc.

SUBMITTED BY: Tyler Crone

DATE:
CONTRACTOR: Triton Services

APPROVED BY:
DATE:

Technologic® Intelligent Pump Controller



TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve, Factory configured for sensorless operation (optional). Field configurable for use with a wired transducer.
CONTROL ZONES	Up to 4 zones.
STARTUP GENIE	Quick start for programming hydraulic specific applications and pump protections.
MULTIPUMP	Up to 4 pumps via RS485.
ENCLOSURE	UL Type <input type="checkbox"/> 1 <input type="checkbox"/> 12 <input type="checkbox"/> 3R <input type="checkbox"/> 4X (Bypass has type 1 and 12 only)
POWER DISCONNECT SWITCH	<input checked="" type="checkbox"/> Standard Disconnect <input type="checkbox"/> Fused Disconnect Switch (Fused Disconnect Switch is standard for Drive-Bypass and 150-600HP Drive)
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
HARMONIC SUPPRESSION	Integrated non-saturating dual DC link reactors provide better harmonic performance than a 5% AC line reactor.
COOLING	Fan-cooled through temperature controlled and easy replacement.
AMBIENT TEMPERATURE RATING	14°F to 113°F (-10°C to 45° C)
COMMUNICATION PROTOCOLS	BACnet, Modbus RTU, N2 Metasys as standard
ANALOG INPUTS	1 configurable for either voltage (0 to 10VDC) or current (0/4 to 20mA) and 1 current (0/4 to 20mA).
ANALOG OUTPUTS	1 (0/4 to 20mA) up to 500 ohm load accurate to 1% of full scale
DIGITAL INPUTS	4 (0 to 24VDC), NPN or PNP, 0 to 24VDC, on 5 msec scan interval, Up to 2 can be configured as pulse inputs.
DIGITAL OUTPUTS	2 (0 to 24VDC), 40mA max current, configurable as pulse outputs.
RELAY OUTPUTS	2 programmable, 240VAC or 400VAC up to 2 A
BYPASS OPTION	<input checked="" type="checkbox"/> None <input type="checkbox"/> Drive-Bypass, 3 Contactor, 100 KA SCCR, Electronic Control, Fused Disconnect Switch

200 - 240VAC 1 Phase Mains Drive			
HP	Output Current	TYPE 1 Frame	TYPE 12/3R/4X Frame
1.5	6.6	A5	A5
2	7.5	B1	B1
3	10.6	B1	B1
5	16.7	B1	B1
7.5	24.2	B1	B1
10	30.8	B2	B2
20	59.4	C1	C1
30	88	C2	C2

200 - 240 VAC 3 Phase Mains Drive 208 / 230 VAC 3 Phase Mains Drive-Bypass								
HP	Output Current (A)		IP20 Frame	TYPE 1 Frame		TYPE 12 Frame		TYPE 3R/4X Frame
	Drive 200-240 VAC	Drive-Bypass 208/230 VAC	Drive 200/240 VAC	Drive 200-240 VAC	Drive-Bypass 208/230 VAC	Drive 200-240 VAC	Drive-Bypass 208/230 VAC	Drive 200-240 VAC
0.5	N/A	2.4/2.2	N/A	N/A	A2	N/A	A5	N/A
0.75	N/A	3.5/3.2	N/A	N/A	A2	N/A	A5	N/A
1	N/A	4.6/4.2	N/A	N/A	A2	N/A	A5	N/A
1.5	6.6	6.6/6	A2	A2	A2	A5	A5	A5
2	7.5	7.5/6.8	A2	A2	A2	A5	A5	A5
3	10.6	10.6/9.6	A2	A2	A2	A5	A5	A5
5	16.7	16.7/15.2	A3	A3	A3	A5	A5	A5
7.5	24.2	24.2/22	B3	B1	B3	B1	B1	B1
10	30.8	30.8/28	B3	B1	B3	B1	B1	B1
15	46.2	46.2/42	B3	B1	B3	B1	B2	B1
20	59.4	59.4/54.0	B4	B2	B4	B2	B2	B2
25	74.8	74.8/68	B4	C1	C3/B4	C1	C1	C1
30	88	88/80	C3	C1	C3	C1	C1	C1
40	115	114/104	C3	C1	C3	C1	C2	C1
50	143	143/130	C4	C2	C4	C2	C2	C2
60	170	169/154	C4	C2	C4	C2	C2	C2

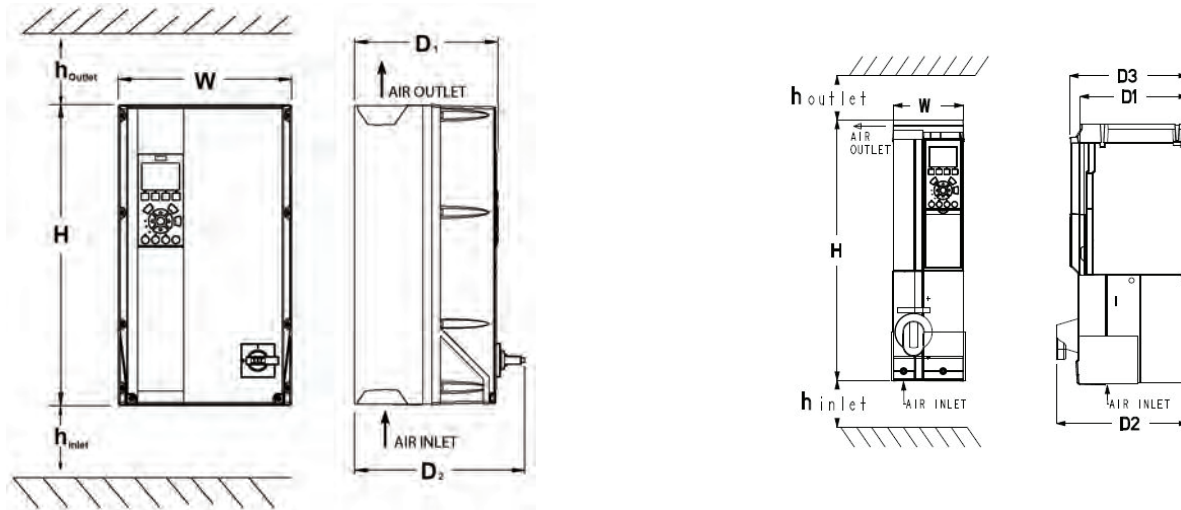
380 - 480 VAC 3 Phase Mains Drive 460 VAC 3 Phase Mains Drive-Bypass								
HP	Output Current (A)		IP20 Frame	TYPE 1 Frame		TYPE 12 Frame		TYPE 3R/4X Frame
	Drive 380-480 VAC	Drive-Bypass 460 VAC	Drive 380-480 VAC	Drive 380-480 VAC	Drive-Bypass 460 VAC	Drive 380-480 VAC	Drive-Bypass 460 VAC	Drive 380-480 VAC
0.5	N/A	1.1	N/A	N/A	A2	N/A	A5	N/A
0.75	N/A	1.6	N/A	N/A	A2	N/A	A5	N/A
1	N/A	2.1	N/A	N/A	A2	N/A	A5	N/A
1.5	2.7	3	A2	A2	A2	A5	A5	A5
2	3.4	3.4	A2	A2	A2	A5	A5	A5
3	4.8	4.8	A2	A2	A2	A5	A5	A5
5	8.2	7.6	A2	A2	A2	A5	A5	A5
7.5	11	11	A3	A3	A2	A5	A5	A5
10	14.5	14	A3	A3	A2	A5	A5	A5
15	21	21	B3	B1	B3	B1	B1	B1
20	27	27	B3	B1	B3	B1	B1	B1
25	34	34	B3	B1	B3	B1	B1	B1
30	40	40	B4	B2	B4	B2	B2	B2
40	52	52	B4	B2	B4	B2	B2	B2
50	65	65	B4	C1	B4	C1	C1	C1
60	80	77	C3	C1	C3	C1	C1	C1
75	105	96	C3	C1	C3	C1	C1	C1
100	130	124	C4	C2	C4	C2	C2	C2
125	160	156	C4	C2	C4	C2	C2	C2

380 - 480 VAC 3 Phase Mains Drive 460 VAC 3 Phase Mains Drive-Bypass					
HP	Output Current (A)	E00/IP20 Frame	TYPE 1 Frame	TYPE 12 Frame	TYPE 3R Frame
	Drive 380-480 VAC	Drive 380-480 VAC	Drive 380-480 VAC	Drive 380-480 VAC	Drive 380-480 VAC
150	190	D3h	D5h	D5h	D1h
200	240	D3h	D5h	D5h	D1h
250	302	D3h	D5h	D5h	D1h
300	361	D4h	D7h	D7h	D2h
350	443	D4h	D7h	D7h	D2h
450	535	D4h	D7h	D7h	D2h
500	590	E2	E1	E1	N/A
550	678	E2	E1	E1	N/A
600	730	E2	E1	E1	N/A

525 - 600 VAC 3 Phase Mains Drive 600 VAC 3 Phase Mains Drive-Bypass								
HP	Output Current (A)		IP20 Frame	TYPE 1 Frame		TYPE 12 Frame		TYPE 3R/4X Frame
	Drive 525-600 VAC	Drive-Bypass 600 VAC	Drive 525-600 VAC	Drive 525-600 VAC	Drive-Bypass 600 VAC	Drive 525-600 VAC	Drive-Bypass 600 VAC	Drive 525-600 VAC
0.5	N/A	0.9	N/A	N/A	A3	N/A	A5	N/A
0.75	N/A	1.3	N/A	N/A	A3	N/A	A5	N/A
1	N/A	1.7	N/A	N/A	A3	N/A	A5	N/A
1.5	2.4	2.4	A3	A3	A3	A5	A5	A5
2	2.7	2.7	A3	A3	A3	A5	A5	A5
3	3.9	3.9	A3	A3	A3	A5	A5	A5
5	6.1	6.1	A3	A3	A3	A5	A5	A5
7.5	9	9	A3	A3	A3	A5	A5	A5
10	11	11	A3	A3	A3	A5	A5	A5
15	18	17	B3	B1	B3	B1	B1	B1
20	22	22	B3	B1	B3	B1	B1	B1
25	27	27	B3	B1	B3	B1	B1	B1
30	34	32	B4	B2	B4	B2	B2	B2
40	41	41	B4	B2	B4	B2	B2	B2
50	52	52	B4	C1	B4	C1	C1	C1
60	62	62	C3	C1	C3	C1	C1	C1
75	83	77	C3	C1	C3	C1	C1	C1
100	100	99	C4	C2	C4	C2	C2	C2
125	131	125	C4	C2	C4	C2	C2	C2

525 - 600 VAC 3 Phase Mains Drive 600 VAC 3 Phase Mains Bypass					
HP	Output Current (A)	E00/IP20 Frame	TYPE 1 Frame	TYPE 12 Frame	TYPE 3R Frame
	Drive 525-600 VAC	Drive 525-600 VAC	Drive 525-600 VAC	Drive 525-600 VAC	Drive 525-600 VAC
150	155	D3h	D5h	D5h	D1h
200	192	D3h	D5h	D5h	D1h
250	242	D4h	D7h	D7h	D2h
300	290	D4h	D7h	D7h	D2h
350	344	D4h	D7h	D7h	D2h
400	400	D4h	D7h	D7h	D2h
450	450	E2	E1	E1	N/A

Drive Drawings and Specification Table



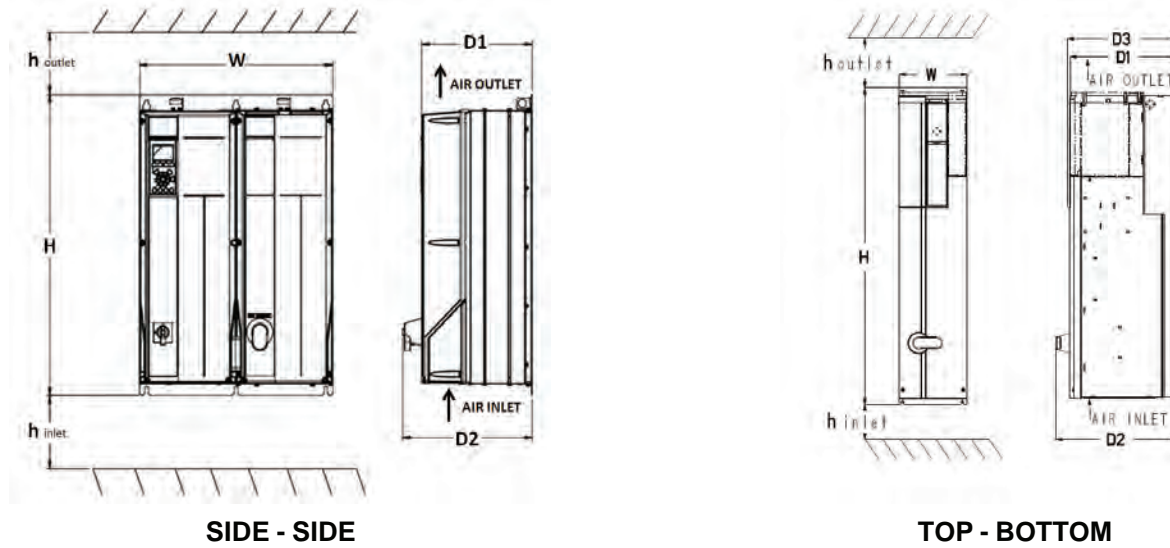
Frame Size	Nominal Weight lbs/Kg	Enclosure Rating		Dimensions						
		TYPE 1	TYPE 12	H inches/mm	W inches/mm	D1 inches/mm (without option A/B)	D2 inches/mm	D3 inches/mm (without option A/B)	h inlet inches/mm	h outlet inches/mm
A2 ¹	10.8/4.9	X		19.1/485	5.2/132	8.3/210	9.6/245	8.7/222	3.9/100	3.9/100
A3 ¹	14.6/6.6	X		19.1/485	5.2/132	8.3/210	9.6/245	8.7/222	3.9/100	3.9/100
A5	31.3/14.2		X	16.5/420	9.5/242	7.9/200	9.4/238	7.9/200	3.9/100	3.9/100
➔ B1	51/23	X	X	18.9/480	9.5/242	10.2/260	12/304	10.2/260	3.9/100	3.9/100
B2	60/27	X	X	25.6/650	9.5/242	10.2/260	12/304	10.2/260	3.9/100	3.9/100
C1	99/45	X	X	26.9/680	12.1/308	12.2/310	14.1/358	12.2/310	7.9/200	7.9/200
C2	143/65	X	X	30.2/770	14.6/370	13/335	14.9/393	13/335	8.9/225	8.9/225

Note:

D1 and D3 are the same if the option A/B card does not require a new LCP frame.

Frame Size	Nominal Weight lbs/Kg	Enclosure Rating		Dimensions					
		TYPE 1	TYPE 12	H inches/mm	W inches/mm	D1 inches/mm	D2 inches/mm	h inlet inches/mm	h outlet inches/mm
D1	229.3/104	X	X	47.6/1209	16.54/420	14.96/380	16.4/417	8.9/225	8.9/225
D2	332.9/151	X	X	62.56/1589	16.54/420	14.96/380	16.4/417	8.9/225	8.9/225
D3	200.62/91	X	X	41.18/1046	16.06/408	14.76/375	16.4/417	8.9/225	8.9/225
D4	304.24/138	X	X	52.24/1327	16.06/408	14.76/375	16.4/417	8.9/225	8.9/225
D5	255/116	X	X	52.13/1324	12.8/325	15/381	16.3/416	8.9/225	8.9/225
D7	440/200	X	X	77.87/1978	16.54/420	15.2/386	16.5/418	8.9/225	8.9/225

Bypass Drawings and Specification Table



Frame Data	Nominal Weight lbs/Kg	Temperature Rating (°F/°C)		Enclosure Rating		Dimensions							
		NEMA 1	NEMA 12	NEMA 1	NEMA 12	H inches/mm	W inches/mm	D1 inches/mm (without option A/B)	D2 inches/mm	D3 inches/mm (with option A/B)	h inlet inches/mm	h outlet inches/mm	Configuration
A2 ¹	35/16	113/45		X		31.74/806	7.63/194	8.27/210	9.73/247	8.75/222	3.94/100	3.94/100	Top-Bottom
A3 ¹	35/16	113/45		X		31.74/806	7.63/194	8.27/210	9.73/247	8.75/222	3.94/100	3.94/100	Top-Bottom
A5	55/25		104/40		X	18.86/479	19.18/487	8.55/217	10.30/262	8.55/217	3.94/100	3.94/100	Side-Side
B1	84/38.1		104/40		X	21.48/546	19.09/485	10.84/275	12.86/327	10.84/275	3.94/100	3.94/100	Side-Side
B2	105/48		104/40		X	28.18/716	19.09/485	10.86/276	12.81/325	10.86/276	3.94/100	3.94/100	Side-Side
B3 ¹	84/38	104/40		X		41.77/1061	9.11/231	14.15/360	15.94/405	14.69/373	7.87/200	2.00/51	Top-Bottom
B4	106/48	104/40		X		43.30/1100	9.77/248	16.30/414	17.70/450	16.30/414	7.87/200	2.00/51	Top-Bottom
C1	145/66		104/40		X	29.94/761	24.37/619	12.74/324	14.87/378	12.74/324	3.94/100	3.94/100	Side-Side
C2	190/86		104/40		X	33.49/851	29.24/743	13.72/349	16.22/412	13.72/349	8.86/225	8.86/225	Side-Side
C3	167/76	104/40		X		54.38/1381	12.69/322	16.59/422	17.99/457	16.59/422	7.87/200	2.00/51	Top-Bottom
C4	248/112	104/40		X		59.64/1515	15.13/384	16.59/422	18.01/458	16.59/422	8.86/225	2.00/51	Top-Bottom

- Notes:
 1) A2, A3 and B3 frames require a minimum of 1.5 inch (38.1mm) clearance on either side for proper air flow and cooling
 2) D1 and D3 are the same if the option A/B card does not require a new LCP frame



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JOB: 20-15098 Lawrenceburg High School

REPRESENTATIVE: Blackmore and Glunt - Cincinnati

UNIT TAG: P-2, 3 HW HS

ENGINEER: Primary Engineering, Inc.
CONTRACTOR: Triton Services

ORDER NO.
SUBMITTED BY: Tyler Crone
APPROVED BY:

DATE: 6/15/2021
DATE:
DATE:



Series e-1510
3GB
Base Mounted End Suction Pump

DESCRIPTION:

The 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. Flows up to 4950 GPM heads to 534 feet.

SPECIFICATIONS

FLOW	500	HEAD	110
HP	25	RPM	1800
VOLTS	230/460		
CYCLE	60	PHASE	3

ENCLOSURE Baldor DPPE Nema Premium Eff,
Super-E w/Aegis sgr Inverter Duty
APPROX. WEIGHT 798
SPECIALS

Note: Equipped with NEOPRENE coupling

MATERIALS OF CONSTRUCTION

Stainless Steel Fitted

FEATURES

- 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

PUMP VARIABLE SPEED CONTROL

- Integrated Technologic® Sensorless Control (ITSC)
- Integrated Technologic® (IT)
- External input by others
- Pressure Sensor(s)
- Differential Pressure Sensor(s)
- Flow Sensor(s) By Others

PARALLEL PUMPING SYSTEM

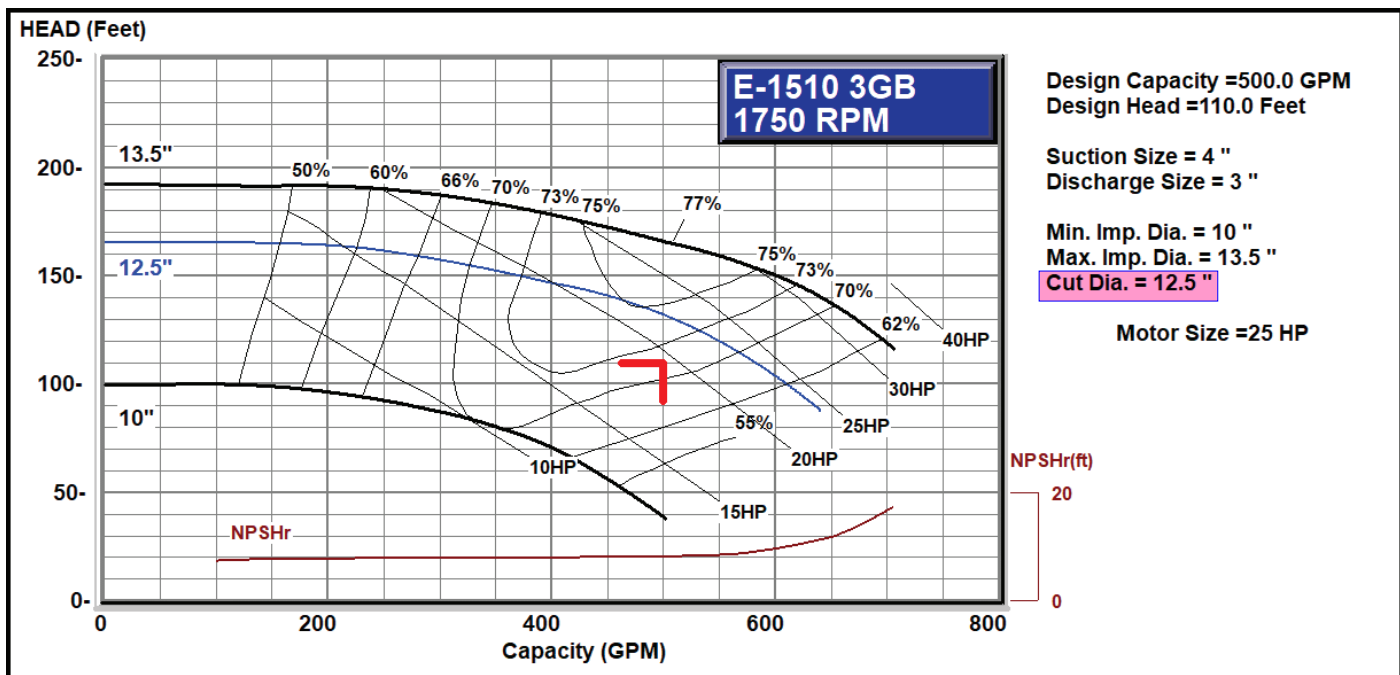
- Sensorless Control (ITSC)
- Sensored Control (IT)

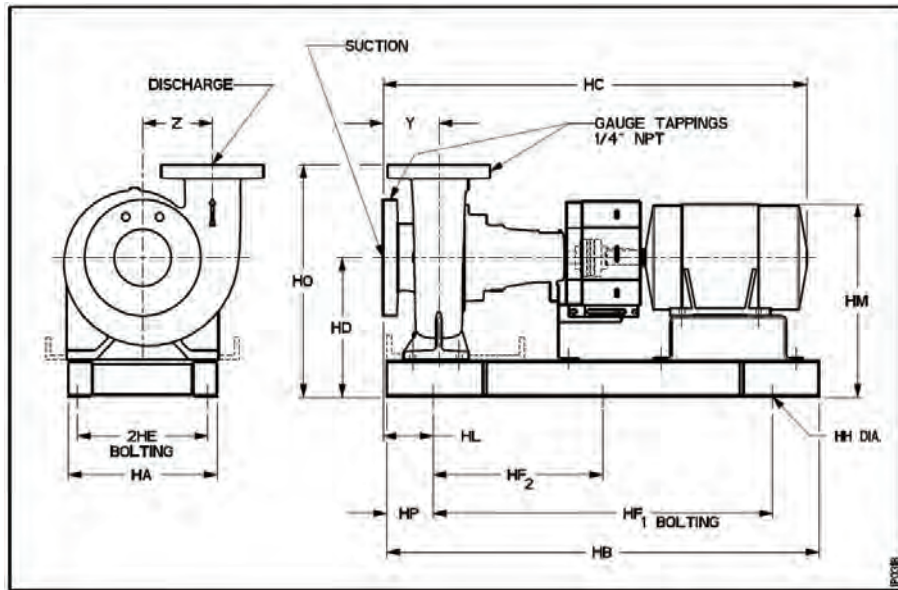
PARALLEL SENSORLESS CONTROLLER

- Pump Mounted
- Wall Mounted
- _____ Pumps in Parallel

TYPE OF SEAL

- Standard Seal
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- F Standard Seal w/ Flush Line
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- S Stuffing Box construction w/ Flushed Mechanical Single Seal
(EPR-Tungsten Carbide/Carbon)
-20° to 250° F (-29° to 121° C)
Max Working Pressure 175 psi (12 bar)
- PF Stuffing Box Construction w/ Flushed Packing
(Graphite Impregnated Teflon)
0° to 250° F (-17° to 121° C)
Max Working Pressure 175 psi (12 bar)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	3" (76)	1.13 (29)	8 (203)
Suction	4" (102)	1.25 (32)	10 (254)

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

DIMENSIONS - Inches (mm)

STANDARD SEAL

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
	"L" FRAME													
213T	16 (406)	46.5 (1181)	41.13 (1045)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
215T	16 (406)	46.5 (1181)	42.63 (1083)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
254T	16 (406)	46.5 (1181)	46.38 (1178)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
256T	16 (406)	46.5 (1181)	48.13 (1222)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
284T	16 (406)	51.75 (1314)	48.88 (1241)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
286T	16 (406)	51.75 (1314)	50.63 (1286)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
324T	16 (406)	51.75 (1314)	52.63 (1337)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	23.13 (587)	23.5 (597)	5 (127)	5.63 (143)	8 (203)

STUFFING BOX

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
	"L" FRAME													
213T	16 (406)	46.5 (1181)	43.5 (1105)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
215T	16 (406)	46.5 (1181)	45 (1143)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
254T	16 (406)	51.75 (1314)	48.75 (1238)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
256T	16 (406)	51.75 (1314)	50.5 (1283)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
284T	16 (406)	51.75 (1314)	51.25 (1302)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
286T	16 (406)	51.75 (1314)	53 (1346)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
324T	16 (406)	51.75 (1314)	55 (1397)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	23.13 (587)	23.5 (597)	5 (127)	5.63 (143)	8 (203)

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



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JOB: 20-15098 Lawrenceburg High School

REPRESENTATIVE: Blackmore and Glunt - Cincinnati

UNIT TAG: P-4, 5 CHW HS
ENGINEER: Primary Engineering, Inc.
CONTRACTOR: Triton Services

ORDER NO.
SUBMITTED BY: Tyler Crone
APPROVED BY:

DATE: 6/15/2021
DATE:
DATE:



Series e-1510 3GB Base Mounted End Suction Pump

DESCRIPTION:

The 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. Flows up to 4950 GPM heads to 534 feet.

SPECIFICATIONS

FLOW	400	HEAD	110
HP	20	RPM	1800
VOLTS	230/460		
CYCLE	60	PHASE	3
ENCLOSURE	Baldor DPPE Nema Premium Eff, Super-E w/Aegis sgr Inverter Duty		
APPROX. WEIGHT	702		
SPECIALS			

Note: Equipped with NEOPRENE coupling

MATERIALS OF CONSTRUCTION

Stainless Steel Fitted

FEATURES

- 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

PUMP VARIABLE SPEED CONTROL

- Integrated Technologic® Sensorless Control (ITSC)
- Integrated Technologic® (IT)
- External input by others
- Pressure Sensor(s)
- Differential Pressure Sensor(s)
- Flow Sensor(s) By Others

PARALLEL PUMPING SYSTEM

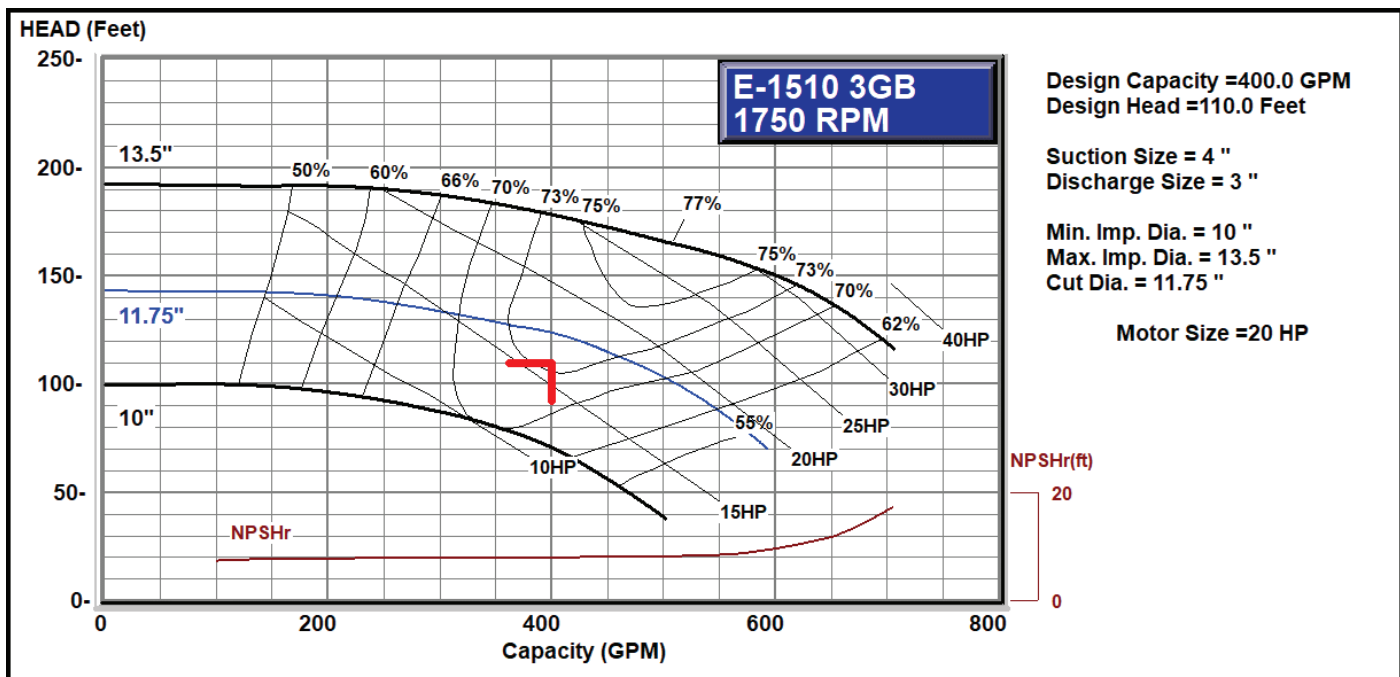
- Sensorless Control (ITSC)
- Sensored Control (IT)

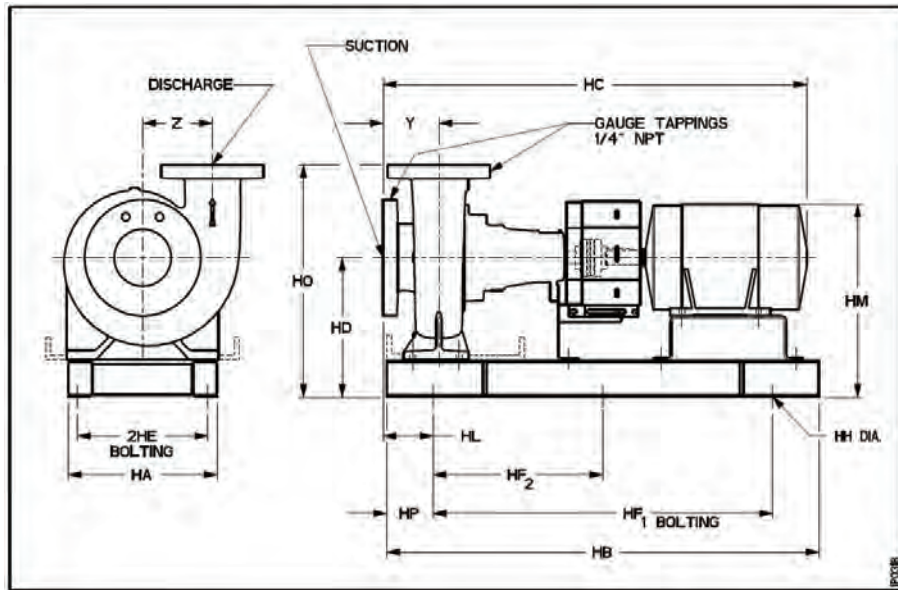
PARALLEL SENSORLESS CONTROLLER

- Pump Mounted
- Wall Mounted
- _____ Pumps in Parallel

TYPE OF SEAL

- Standard Seal
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- F Standard Seal w/ Flush Line
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- S Stuffing Box construction w/ Flushed Mechanical Single Seal
(EPR-Tungsten Carbide/Carbon)
-20° to 250° F (-29° to 121° C)
Max Working Pressure 175 psi (12 bar)
- PF Stuffing Box Construction w/ Flushed Packing
(Graphite Impregnated Teflon)
0° to 250° F (-17° to 121° C)
Max Working Pressure 175 psi (12 bar)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	3" (76)	1.13 (29)	8 (203)
Suction	4" (102)	1.25 (32)	10 (254)

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

DIMENSIONS - Inches (mm)

STANDARD SEAL

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
	"L" FRAME													
213T	16 (406)	46.5 (1181)	41.13 (1045)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
215T	16 (406)	46.5 (1181)	42.63 (1083)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
254T	16 (406)	46.5 (1181)	46.38 (1178)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
256T	16 (406)	46.5 (1181)	48.13 (1222)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
284T	16 (406)	51.75 (1314)	48.88 (1241)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
286T	16 (406)	51.75 (1314)	50.63 (1286)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
324T	16 (406)	51.75 (1314)	52.63 (1337)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	23.13 (587)	23.5 (597)	5 (127)	5.63 (143)	8 (203)

STUFFING BOX

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF ₁	HF ₂	HH	HL	HM MAX	HO	HP	Y	Z
	"L" FRAME													
213T	16 (406)	46.5 (1181)	43.5 (1105)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
215T	16 (406)	46.5 (1181)	45 (1143)	14 (356)	14 (356)	36.5 (927)	18.25 (464)	.88 (22)	4.13 (105)	19.88 (505)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
254T	16 (406)	51.75 (1314)	48.75 (1238)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
256T	16 (406)	51.75 (1314)	50.5 (1283)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	20.88 (530)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
284T	16 (406)	51.75 (1314)	51.25 (1302)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
286T	16 (406)	51.75 (1314)	53 (1346)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	22 (559)	23.5 (597)	5 (127)	5.63 (143)	8 (203)
324T	16 (406)	51.75 (1314)	55 (1397)	14 (356)	14 (356)	41.75 (1060)	20.88 (530)	.88 (22)	4.13 (105)	23.13 (587)	23.5 (597)	5 (127)	5.63 (143)	8 (203)

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



Xylem Inc.
8200 N. Austin Avenue, Morton Grove, IL 60053
Phone: (847)966-3700 Fax: (847)965-8379
www.xylem.com/bellgossett
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ESP-REP v2021.02 © 2020 Xylem Inc.

JOB: 20-15098 Lawrenceburg High School

REPRESENTATIVE: Blackmore and Glunt - Cincinnati

UNIT TAG: P-6 Pool Heat HS

ENGINEER: Primary Engineering, Inc.
CONTRACTOR: Triton Services

ORDER NO.
SUBMITTED BY: Tyler Crone
APPROVED BY:

DATE: 6/15/2021
DATE:
DATE:



Series e-1510
1.25AD
Base Mounted End Suction Pump

DESCRIPTION:

The 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. Flows up to 4950 GPM heads to 534 feet.

SPECIFICATIONS

FLOW	60	HEAD	50
HP	2	RPM	1800
VOLTS	230/460		
CYCLE	60	PHASE	3
ENCLOSURE Baldor DPPE Nema Premium Eff, Super-E w/Aegis sgr Inverter Duty			
APPROX. WEIGHT	162		
SPECIALS			

Note: Equipped with NEOPRENE coupling

MATERIALS OF CONSTRUCTION

Stainless Steel Fitted

FEATURES

- ANSI/OSHA Coupling Guard
- Center Drop Out Spacer Coupling
- Fabricated Heavy Duty Baseplate

MAXIMUM WORKING PRESSURE

175 psi (12 bar) W.P.

PUMP VARIABLE SPEED CONTROL

- Integrated Technologic® Sensorless Control (ITSC)
- Integrated Technologic® (IT)
- External input by others
- Pressure Sensor(s)
- Differential Pressure Sensor(s)
- Flow Sensor(s) By Others

PARALLEL PUMPING SYSTEM

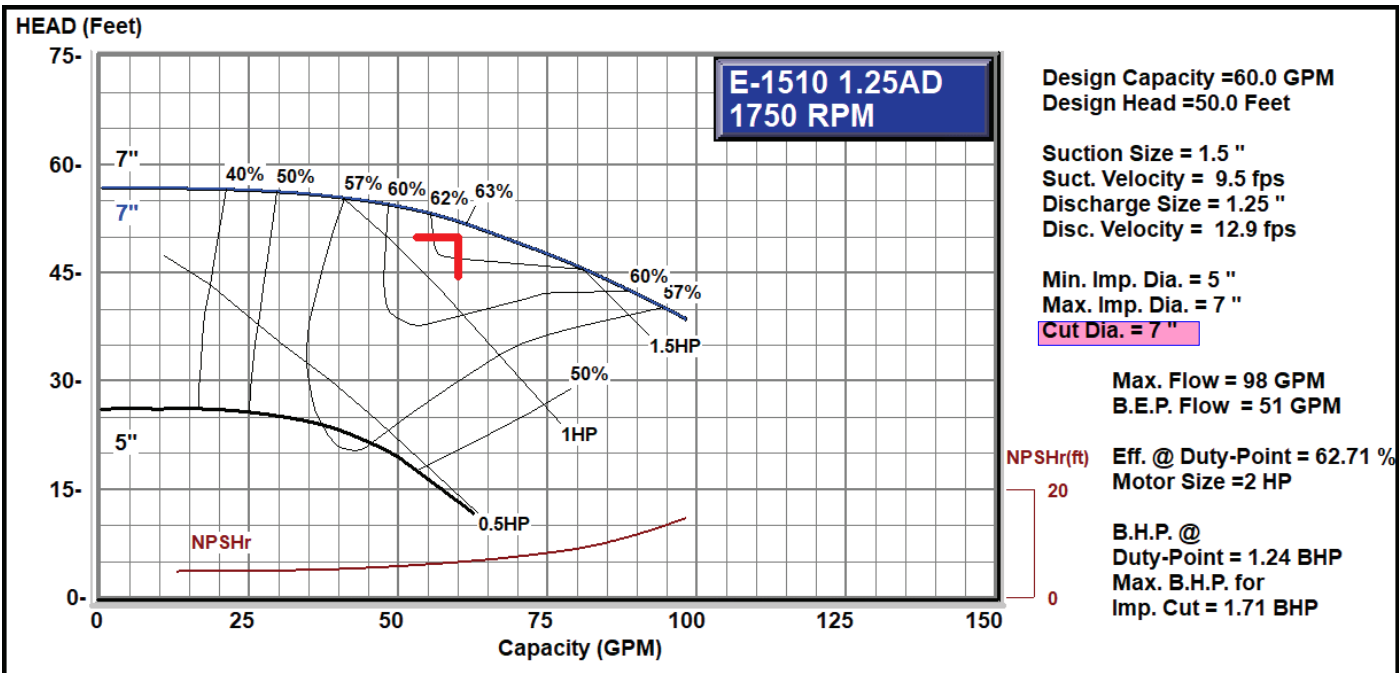
- Sensorless Control (ITSC)
- Sensorless Control (IT)

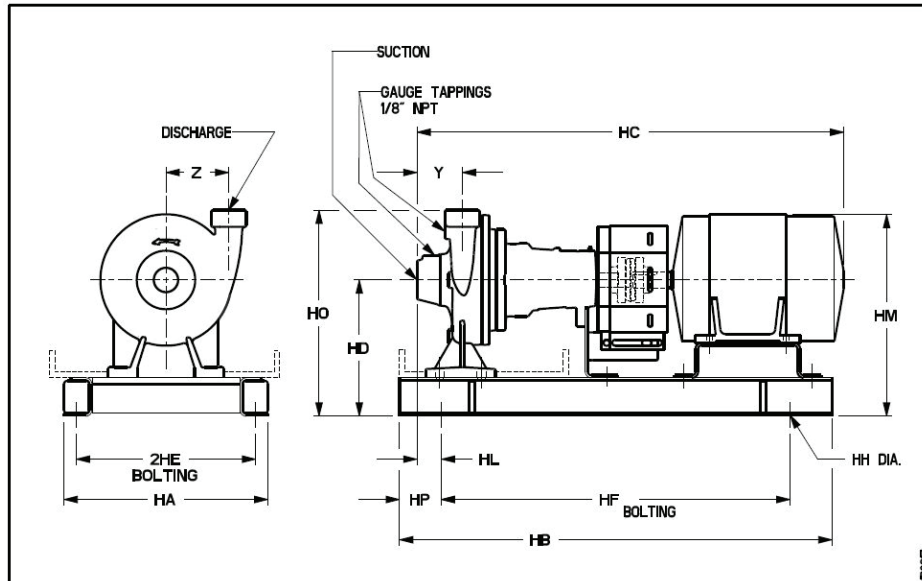
PARALLEL SENSORLESS CONTROLLER

- Pump Mounted
- Wall Mounted
- ___ Pumps in Parallel

TYPE OF SEAL

- Standard Seal
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- F Standard Seal w/ Flush Line
(Buna-Carbon/Ceramic)
-20° to 225° F (-29° to 107° C)
Max Working Pressure 175 psi (12 bar)
- S Stuffing Box construction w/ Flushed Mechanical Single Seal
(EPR-Tungsten Carbide/Carbon)
-20° to 250° F (-29° to 121° C)
Max Working Pressure 175 psi (12 bar)
- PF Stuffing Box Construction w/ Flushed Packing
(Graphite Impregnated Teflon)
0° to 250° F (-17° to 121° C)
Max Working Pressure 175 psi (12 bar)





NOZZLE SIZES	
Discharge	1.25 N.P.T.
Suction	1.5 N.P.T.

DIMENSIONS - Inches (mm)

STANDARD SEAL

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF	HH	HL	HM MAX	HO	HP	Y	Z
"S" FRAME													
56	12 (305)	28.75 (730)	28.38 (721)	9.75 (248)	10.25 (260)	22.5 (572)	.75 (19)	3.13 (79)	13.38 (340)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
143T	12 (305)	28.75 (730)	28.5 (724)	9.75 (248)	10.25 (260)	22.5 (572)	.75 (19)	3.13 (79)	13.5 (343)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
➔ 145T	12 (305)	28.75 (730)	29.5 (749)	9.75 (248)	10.25 (260)	22.5 (572)	.75 (19)	3.13 (79)	13.5 (343)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
182T	14.63 (371)	31 (787)	32.25 (819)	9.75 (248)	12.88 (327)	25 (635)	.75 (19)	1.75 (44)	15 (381)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
184T	14.63 (371)	31 (787)	33 (838)	9.75 (248)	12.88 (327)	25 (635)	.75 (19)	1.75 (44)	15 (381)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
213T	14.63 (371)	34.63 (879)	35.5 (902)	9.75 (248)	12.88 (327)	28.63 (727)	.75 (19)	1.75 (44)	15.63 (397)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
215T	14.63 (371)	34.63 (879)	37 (940)	9.75 (248)	12.88 (327)	28.63 (727)	.75 (19)	1.75 (44)	15.63 (397)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
254T	14.63 (371)	39.38 (1000)	40.75 (1035)	10.75 (273)	12.88 (327)	33.38 (848)	.75 (19)	1.75 (44)	17.63 (448)	15.75 (400)	3 (76)	3.25 (83)	4.5 (114)

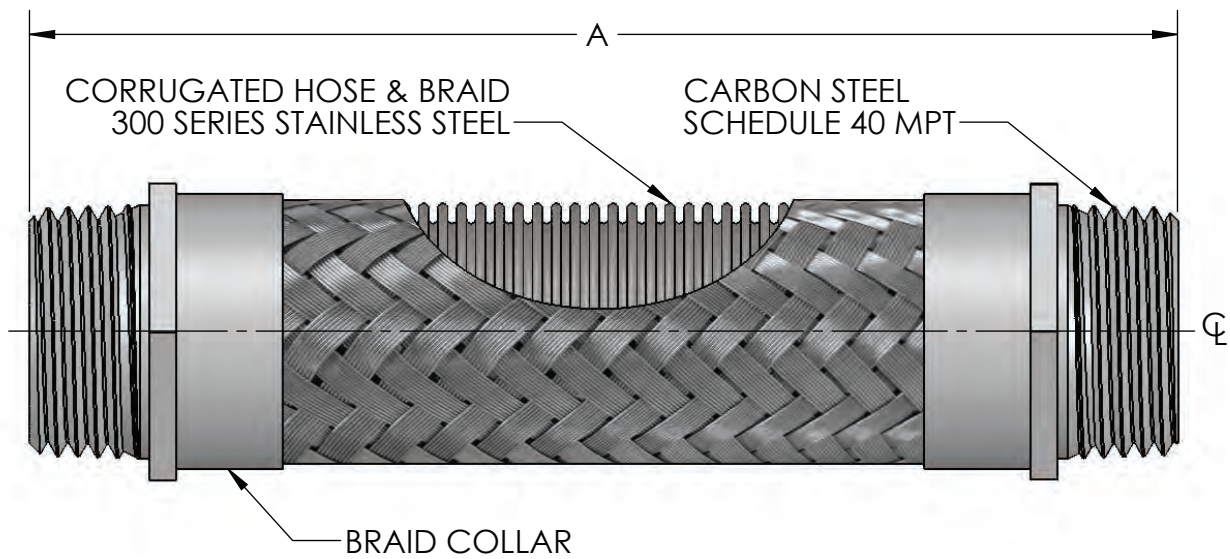
STUFFING BOX

MOTOR FRAME	HA	HB	HC MAX	HD	2HE	HF	HH	HL	HM MAX	HO	HP	Y	Z
"S" FRAME													
56	14.63 (371)	34.63 (879)	32 (813)	9.75 (248)	12.88 (327)	28.63 (727)	.75 (19)	3.13 (79)	13.38 (340)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
143T	14.63 (371)	34.63 (879)	32.13 (816)	9.75 (248)	12.88 (327)	28.63 (727)	.75 (19)	3.13 (79)	13.5 (343)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
145T	14.63 (371)	34.63 (879)	33.13 (841)	9.75 (248)	12.88 (327)	28.63 (727)	.75 (19)	3.13 (79)	13.5 (343)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
182T	14.63 (371)	34.63 (879)	35.75 (908)	9.75 (248)	12.88 (327)	28.63 (727)	.75 (19)	1.75 (44)	15 (381)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
184T	14.63 (371)	34.63 (879)	36.5 (927)	9.75 (248)	12.88 (327)	28.63 (727)	.75 (19)	1.75 (44)	15 (381)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
213T	14.63 (371)	39.38 (1000)	39.13 (994)	9.75 (248)	12.88 (327)	33.38 (848)	.75 (19)	1.75 (44)	15.63 (397)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
215T	14.63 (371)	39.38 (1000)	40.63 (1032)	9.75 (248)	12.88 (327)	33.38 (848)	.75 (19)	1.75 (44)	15.63 (397)	14.75 (375)	3 (76)	3.25 (83)	4.5 (114)
254T	16 (406)	46.5 (1181)	44.38 (1127)	12 (305)	14 (356)	36.5 (927)	.88 (22)	2.88 (73)	18.88 (479)	17 (432)	5 (127)	3.25 (83)	4.5 (114)

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



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Note: Do not use wrenches on hose or braid collar.

Qty	Part Number	Size I.D. (in)	A ± 1/8 (in)	Pressure* (PSI)	Weight (Lbs)	Project Info
	SSTT0038	3/8	6	1600	1	
	SSTT0050	1/2	6-1/2	1100	1.2	
	SSTT0075	3/4	7	792	1.5	
	SSTT0100	1	8	571	2	
1	SSTT0125	1-1/4	8-1/2	531	2.5	For P-6 Discharge
	SSTT0150	1-1/2	9	472	3	
1	SSTT0200	2	10-1/2	500	4	For P-6 Suction

MAX INTERMITTENT OFFSET FROM CENTERLINE 1/8"

*For safe working pressure above 70°F, multiply the pressure shown at 70°F times the correction factor of the required temperature.

Temperature (°F)	Factor
70	1.0
200	.92
300	.86
400	.82
500	.77
600	.73

LEAD FREE


The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content.



CUSTOMER: Triton Services

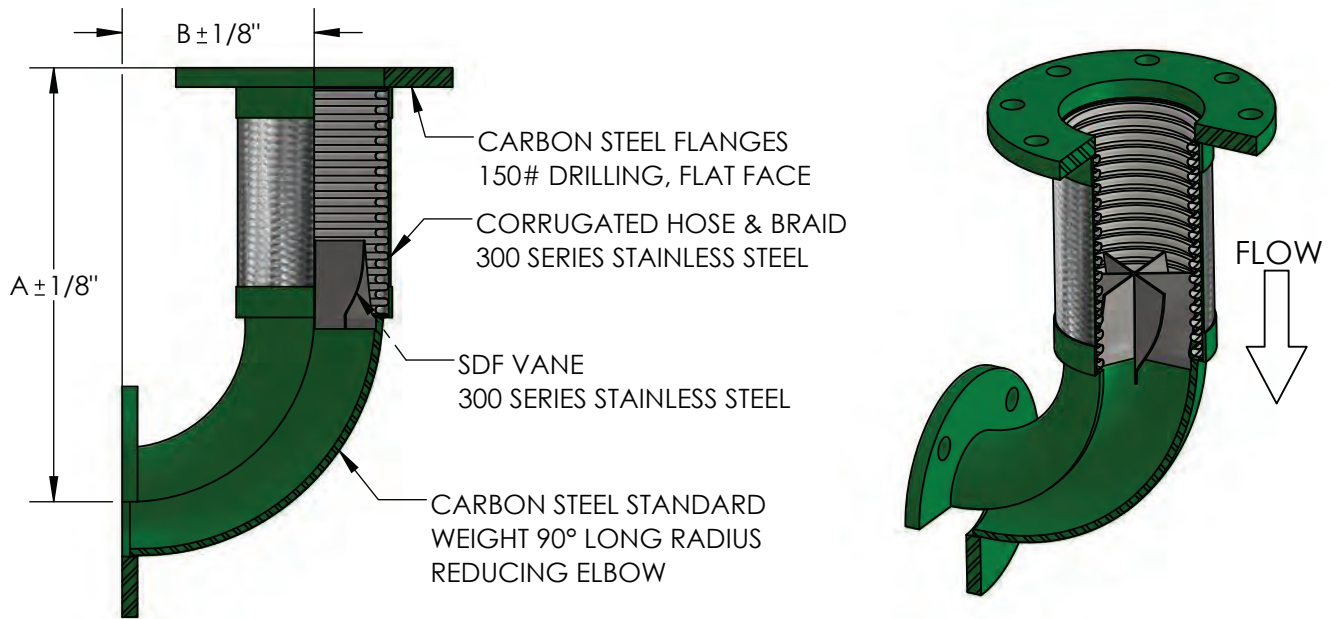
PROJECT: Lawrenceburg HS

ENGINEER: Primary Engineering, Inc.

REV.	DATE
	
2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM	
MODEL SSTT THREADED METAL CONNECTOR	
DRAWN BY: DKISH	DATE: 1/10/2014
APPROVED: JC	DATE: 1/10/2014
SCALE: NONE	DRAWING NUMBER: SSTT

MODEL SDFL90R

SUCTION DIFFUSER FLEX WITH 150# PLATE FLANGES AND REDUCING LR ELBOW



QTY	PART NUMBER	PIPE SIZE		A	B	PRESSURE RATING (PSI)*	WEIGHT (LBS)	PROJECT INFORMATION
		LARGER	SMALLER					
	SDFL90R2502	2-1/2"	2"	12-1/4"	4"	387	19	
	SDFL90R0302	3"	2"	13"	4-3/4"	316	21	
	SDFL90R0325	3"	2-1/2"	13"	4-3/4"	316	22	
	SDFL90R0402	4"	2"	14-1/2"	6-1/4"	232	28	
	SDFL90R0425	4"	2-1/2"	14-1/2"	6-1/4"	232	29	
	SDFL90R0403	4"	3"	14-1/2"	6-1/4"	232	31	
	SDFL90R0525	5"	2-1/2"	18"	7-3/4"	191	38	
	SDFL90R0503	5"	3"	18"	7-3/4"	191	40	
	SDFL90R0504	5"	4"	18"	7-3/4"	191	43	
	SDFL90R0603	6"	3"	19-1/2"	9-1/4"	165	50	
4	SDFL90R0604	6"	4"	19-1/2"	9-1/4"	165	53	For P-2, 3, 4, 5 Suction Side
	SDFL90R0605	6"	5"	19-1/2"	9-1/4"	165	56	
	SDFL90R0804	8"	4"	23-1/4"	12-1/4"	234	97	
	SDFL90R0805	8"	5"	23-1/4"	12-1/4"	234	100	
	SDFL90R0806	8"	6"	23-1/4"	12-1/4"	234	104	
	SDFL90R1006	10"	6"	27-1/4"	15-1/4"	230	158	
	SDFL90R1008	10"	8"	27-1/4"	15-1/4"	230	163	
	SDFL90R1210	12"	10"	31-1/4"	18-1/4"	161	233	

*FOR SAFE WORKING PRESSURE ABOVE 70°F, MULTIPLY THE PRESSURE SHOWN AT 70°F TIMES THE CORRECTION FACTOR OF THE REQUIRED TEMPERATURE.

TEMPERATURE (°F)	FACTOR
70	1.0
200	.91
300	.85
400	.78
500	.77
600	.76

MAX INTERMITTENT OFFSET FROM CENTERLINE 1/8"
MAX PERMANENT OFFSET FROM CENTERLINE 3/8"


NSF 372 - LEAD FREE

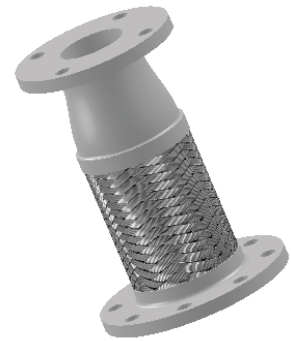
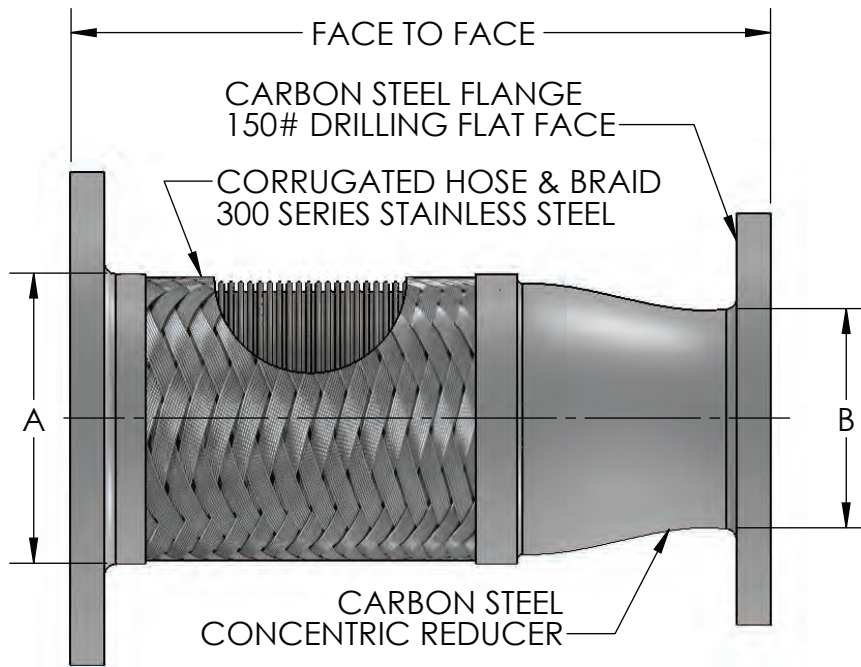
The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content.

CUSTOMER: Triton Services

PROJECT: Lawrenceburg HS

ENGINEER: Primary Engineering, Inc.

REV.	1	TEMP FACTOR UPDATED	DATE 1/4/2017
		2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM	
MODEL SDFL90R SDF, 150# PLATE FLANGES, REDUCING LR ELBOW			
DRAWN BY: DKISH		DATE: 11/22/2013	
APPROVED: JC		DATE: 11/22/2013	
SCALE:	N/A	DRAWING NUMBER:	SDFL90R-1



*For safe working pressure above 70°F, multiply the pressure shown at 70°F times the correction factor of the required temperature.

Temperature (°F)	Factor
70	1.0
200	.92
300	.86
400	.82
500	.77
600	.73

Qty	Model #	A (in)	B (in)	F/F (in)	Pressure* (PSI)	Weight (Lbs)	Project Info
	RMF0215	2	1-1/2	12-1/4	345	10	
	RMF2502	2-1/2	2	12-1/4	345	15	
	RMF0302	3	2	12-1/4	289	17	
	RMF0325		2-1/2				
	RMF0402	4	2	12-3/4	300	22	
	RMF0425		2-1/2				
	RMF0403		3				
	RMF0525	5	2-1/2	15-3/4	220	31	
	RMF0503		3				
	RMF0504		4				
	RMF0602	6	2	16-1/4	200	36	For P-2, 3, 4, 5 HS Discharge Side
	RMF0625		2-1/2				
4	RMF0603		3				
	RMF0604		4				
	RMF0605	5					
	RMF0804	8	4	17-1/2	190	65	
	RMF0805		5				
	RMF0806		6				
	RMF1006	10	6	19-1/2	150	97	
	RMF1008		8				
	RMF1206	12	6	21-1/2	125	137	
	RMF1208		8				
	RMF1210		10				

MAX INTERMITTENT OFFSET FROM CENTERLINE 1/8"
 MAX PERMANENT OFFSET FROM CENTERLINE 3/8"

LEAD FREE

The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. Material complies with state codes and standards, where applicable, requiring reduced lead content.

CUSTOMER: Triton Services

PROJECT: Lawrenceburg HS

ENGINEER: Primary Engineering, Inc.

REV.	DATE
2323 W. HUBBARD ST. CHICAGO, IL 60612 TEL: 312-738-3800 FAX: 312-738-0415 WWW.METRAFLEX.COM	
<h2>MODEL RMF</h2> <h3>STAINLESS STEEL REDUCING CONNECTOR</h3>	
DRAWN BY: DKISH	DATE: 1/10/2014
APPROVED: JC	DATE: 1/10/2014
SCALE: NONE	DRAWING NUMBER: RMF

Job/Project: 20-15098 Lawrenceburg High School	Representative: Dan Molnar	
ESP-Systemwize: WIZE-BOECCA	06/15/2021	Phone:
Location/Tag: ADS-1 CHW	Email:	
Engineer: Primary Engineering, Inc.	Submitted By:	Date:
Contractor: Triton Services	Approved By:	Date:

CRS Coalescing Style Air & Sediment Separator

The Bell & Gossett CRS is a combination air & sediment separator that utilizes a coalescing medium to remove impurities from HVAC systems. It features a stainless steel coalescing medium with 58% open area, removable end cover for coalescing medium access, and connections for an air vent, blow down valve, and skim valve. The product is designed, constructed, inspected and stamped per ASME Section VIII, Division 1.

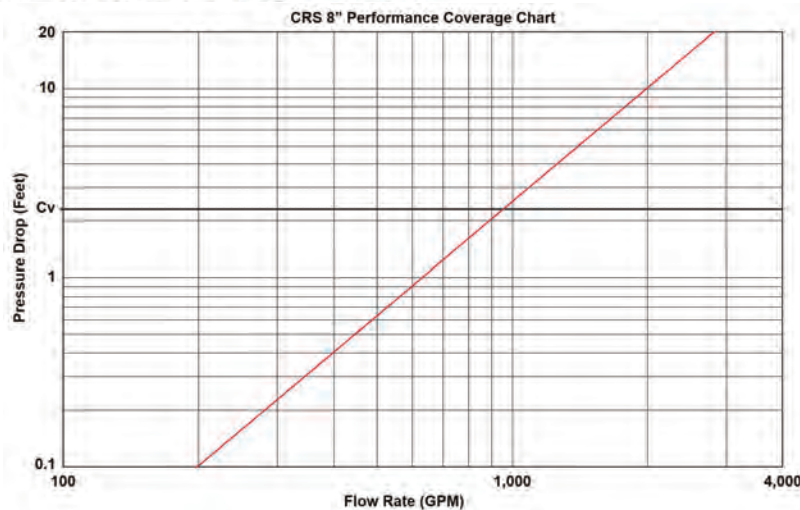


Separator Selection

Model	CRS-8F
Size	8.0 in
Recommended Max Flow	980.0 gpm
ASME Certified	true
Pressure Drop @ Design Flow	0.0'
Shipping Weight	520.0 lbs
Flooded Weight	888.0 lbs
Cv	950.0

Designed and constructed per ASME Section VIII, Division 1

Performance Coverage Chart:



CRS-8F

Type of Separator: 8" Flanged Coalescing Style Air & Sediment Combo Separator, Standard Velocity, Removable Head

Operating Limits

Max Working Pressure	150.0 psig
Max Temperature	450.0 °F

Materials of Construction

Body	Carbon Steel
Coalescing Medium	304 SS

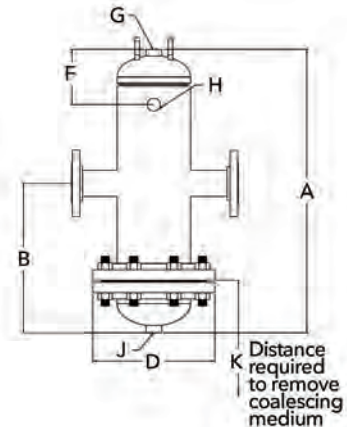
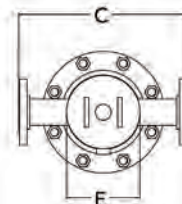
Consult local rep for higher working pressures and temperatures.

Dimensional data:

All dimensions in 1/16" (2mm) increments. Dimensions are subject to change. All M to be used for illustrations unless noted.

IMPORTANT NOTES

1. Consult IOM 0121-01 for safety and service instructions.
2. Lifting lugs are for transportation and installation of the empty vessel, and are not to be used for complete or partial support of the flooded vessel.
3. Welding to the pressure vessel boundary will void the ASME stamp.



DIMENSIONS IN INCHES * (mm)

A	B	C	D	E	F	G	H	J	K
48 (1,219)	24 (610)	33.63 (854)	23.5 (597)	16 (406)	7 (178)	3/4" NPTF	1/2" NPTF	1" NPTF	27 (686)

SUBMITTAL

TRIM PACKAGE

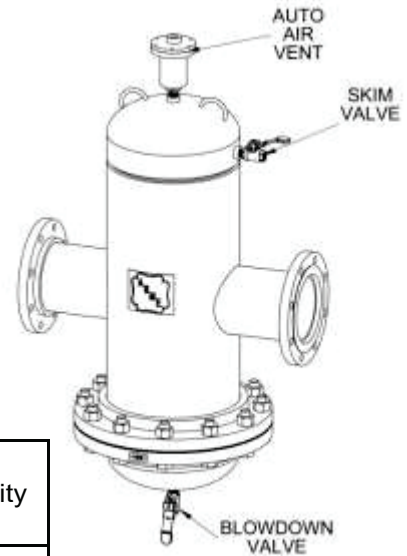
Models: NTP-2 thru NTP-36

Job Name <u>Lawrenceburg High School</u>	Submitted By <u>Tyler Crone</u>	Date <u>6/15/21</u>
Location <u>Lawrenceburg, IN.</u>	Approved By _____	Date _____
_____	Order No. _____	Date _____
Engineer <u>Primary Engineering, Inc.</u>	Notes _____	
Contractor <u>Triton Services</u>	_____	
Sales Rep. <u>Blackmore and Glunt, Inc.</u>	_____	

Description

Trim Package is designed to remove the harmful air and contaminants normally found in a closed loop heating or cooling system. When installed, the trim package includes all essential parts for taking full advantage of the Air/Dirt Separator's potential.

Performance Limitations Maximum
 Design Pressure: 150 PSI Maximum
 Design Temperature: 250°F



Model Number	Tagging Information	Quantity
→ NTP-2 thru NTP-12	For ADS-1 CHW	1
NTP-14 thru NTP-24		

Dimensions & Weights

Model Number	Part Description	Quantity	Material	Approx Shipping Weight
→ NTP-2 thru 12	#78 Air Vent	1	Cast Brass	5 lbs
	1/2" Ball Valve	1	Brass	
	1" Ball Valve	1	Brass	

NTP-14 thru 24	#78 Air Vent	1	Cast Brass	10 lbs
	1/2" Ball Valve	1	Brass	
	2" Ball Valve	1		
	2"x 2" Close Nipple	1	Brass	

JOB: 20-15098 Lawrenceburg High School

REPRESENTATIVE: Blackmore and Glunt - Cincinnati

UNIT TAG:
ENGINEER: Primary Engineering, Inc.
CONTRACTOR: Triton Services

ORDER NO.:
SUBMITTED BY: Tyler Crone
APPROVED BY:
DATE: 6/15/2021
DATE:
DATE:


Series "B" (ASME) Pressurized Expansion Tanks Vertical

Not For Potable Water Systems

DESCRIPTION

Series "B" expansion tanks are ASME rated precharged bladder-type pressure vessels. The Series "B" tank is designed to absorb the expansion forces of heating/cooling system water while maintaining proper system pressurization under varying operating conditions. The heavy duty bladder contains system water thereby eliminating tank corrosion and waterlogging problems.

CONSTRUCTION

System Connection: Forged Steel
 Shell: Carbon Steel
 Bladder: Heavy Duty Butyl Rubber
 Designed and Constructed per ASME Section VIII, Division 1

MAXIMUM OPERATING LIMITS

Maximum Design Pressure: 125 PSI (862kPa)
 Design Temperature: 240°F (115°C)

SCHEDULE

PART NUMBER		MODEL NO.	TANK AND ACCEPTANCE VOLUME GALLONS (LITERS)	TAGGING INFORMATION	QUANTITY
PRESSURIZED EXPANSION TANKS	WITH SEISMIC RESTRAINTS				
116550	116923	B-200	53 (200)		
116551	116924	B-300	80 (300)		
116552	116925	B-400	106 (400)		
116553	116926	B-500	132 (500)		
116554	116927	B-600	158 (600)		
116555	116928	B-800	211 (800)		
➡ 116556	116929	B-1000	264 (1000)	ET-1 CHW	1
116557	116930	B-1200	317 (1200)		
116558	116931	B-1400	370 (1400)		
116559	116932	B-1600	422 (1600)		
116560	116933	B-2000	528 (2000)		
116793	116934	B-2500	660 (2500)		
116794	116935	B-3000	792 (3000)		
116795	116936	B-3500	925 (3500)		
116796	116937	B-4000	1057 (4000)		
116819	116938	B-5000	1321 (5000)		
116841	116939	B-7500	1980 (7500)		
116842	116940	B-10000	2640 (10000)		
116843	116941	B-15000	3963 (15000)		

TYPICAL SPECIFICATION

Furnish and install as shown on plans a _____ gallon (_____ liter) _____" (_____ mm) diameter x _____" (_____ mm) high pre-charged steel expansion tank with replaceable heavy duty Butyl rubber bladder. The tank shall have a _____" NPT system connection, _____" NPT drain, and a .302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements.

The tank shall be fitted with lifting rings and a floor mounting skirt for vertical installation.

The tank must be constructed in accordance with Section VIII of the ASME Boiler and Pressure Vessel Code and stamped 125 PSI (862 kPa) working pressure.

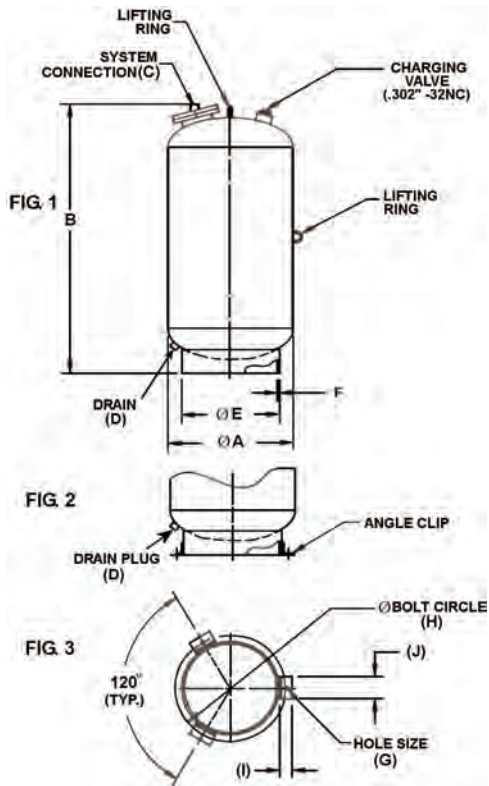
Each tank shall be Xylem – Bell & Gossett Model No. _____

NOTE: Tanks are factory pre-charged at 12 psi (83 kPa)

Allow a minimum of 18" (457.2mm) clearance for system piping.

Sight glass and seismic restraints available on request.

Tanks can be installed in the horizontal position with the system connection located below the horizontal centerline of the tank.



OPTIONAL SEISMIC RESTRAINTS (FIG.2 & 3) – DIMENSIONS IN INCHES (MM)

TANK DIAMETER	G	H	I	J
24"	9/16 (14)	21 (533)	2 (51)	2 (51)
30"	7/8 (22)	28 (711)	4 (102)	4 (102)
36"	7/8 (22)	34 (864)	4 (102)	4 (102)
48"	7/8 (22)	46 (1168)	4 (102)	4 (102)
54"	7/8 (22)	46 (1168)	4 (102)	4 (102)
60"	7/8 (22)	46 (1168)	4 (102)	4 (102)
72"	1 (25)	58 (1473)	4 (102)	4 (102)

DIMENSIONS IN INCHES (MM) AND WEIGHTS IN LBS. (KG) (FIG. 1)

PART NUMBER		MODEL NUMBER	A	B	C NPTF	D	E	F	APPROX. SHPG. WT.	APPROX. WT* 100% FULL
PRESSURIZED EXPANSION TANKS	WITH SEISMIC RESTRAINTS									
116550	116923	B-200	24 (610)	36-7/8 (936)	1	3/4	19 (483)	3/16 (5)	192 (87)	629 (285)
116551	116924	B-300	24 (610)	50-7/8 (1292)	1	3/4	19 (483)	3/16 (5)	268 (122)	928 (421)
116552	116925	B-400	24 (610)	64-3/4 (1644)	1	3/4	19 (483)	3/16 (5)	309 (140)	1184 (537)
116553	116926	B-500	24 (610)	78 (1981)	1	3/4	19 (483)	3/16 (5)	328 (149)	1417 (643)
116554	116927	B-600	30 (762)	63-3/4 (1619)	1-1/2	1	24 (610)	3/16 (5)	510 (232)	1814 (823)
116555	116928	B-800	30 (762)	81-3/4 (2076)	1-1/2	1	24 (610)	3/16 (5)	656 (297)	2306 (1046)
➡ 116556	116929	B-1000	36 (914)	73 (1854)	1-1/2	1-1/4	30 (762)	3/16 (5)	691 (313)	2869 (1301)
116557	116930	B-1200	36 (914)	85-3/8 (2169)	1-1/2	1-1/4	30 (762)	3/16 (5)	779 (353)	3394 (1539)
116558	116931	B-1400	36 (914)	97-3/4 (2483)	1-1/2	1-1/4	30 (762)	3/16 (5)	905 (410)	3958 (1795)
116559	116932	B-1600	48 (1219)	69-1/8 (1756)	1-1/2	1-1/2	42 (1067)	1/4 (6)	1183 (537)	4665 (2116)
116560	116933	B-2000	48 (1219)	84 (2145)	1-1/2	1-1/2	42 (1067)	1/4 (6)	1264 (573)	5620 (2549)
116793	116934	B-2500	48 (1219)	100-7/8 (2562)	2	1-1/2	42 (1067)	1/4 (6)	1445 (655)	6890 (3125)
116794	116935	B-3000	48 (1219)	118-1/8 (2562)	2	1-1/2	42 (1067)	1/4 (6)	1630 (739)	8164 (3703)
116795	116936	B-3500	54 (1372)	111 (2820)	2	1-1/2	42 (1067)	1/4 (6)	2110 (957)	9741 (4418)
116796	116937	B-4000	54 (1372)	124-1/2 (3163)	2	1-1/2	42 (1067)	1/4 (6)	2230 (1011)	10950 (4967)
116819	116938	B-5000	60 (1524)	128 (3251)	2	1-1/2	42 (1067)	1/4 (6)	2450 (1111)	13403 (6079)
116841	116939	B-7500	72 (1829)	127 (3326)	3	1-1/2	54 (1372)	3/8 (10)	4000 (1814)	20500 (9299)
116842	116940	B-10000	72 (1829)	159 (4039)	3	1-1/2	54 (1372)	3/8 (10)	4900 (2223)	26890 (12197)
116843	116941	B-15000	72 (1829)	233 (5918)	3	1-1/2	54 (1372)	3/8 (10)	6000 (2721)	39010 (17695)

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

* Approximate weight 100% full occurs if bag fails or if air charge is lost.

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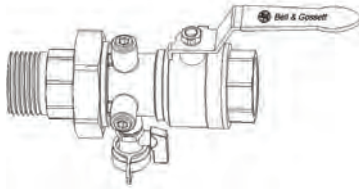
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TPV - Tank Purge Valve for Non-Potable Water

DESCRIPTION

The Bell & Gossett TPV is a combination full port shut-off valve and drain valve used to connect the system to the tank. This valve allows the tank to be drained for easy servicing or tank replacement without having to drain the system. These valves are furnished standard with a drain valve with a standard 5/8" hose connection.

CONSTRUCTION

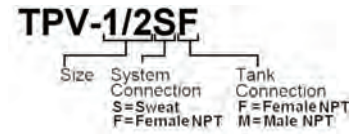
Body: Brass
 Ball: Chrome Plated
 Ball Seal: Teflon®
 Stem: Explosion Proof
 O-Rings: EPDM
 Taps: 3 Total - 1/4" NPT
 1 - Drain Valve
 2 - Plugged

MAXIMUM WORKING PRESSURE

400 psig (2,758 kPa)

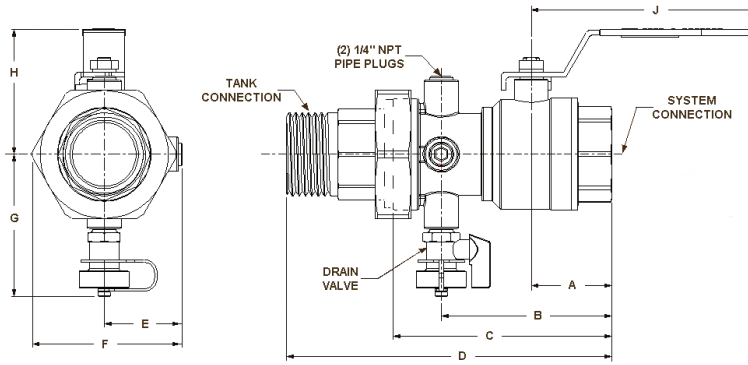
MAXIMUM OPERATING TEMPERATURE

-4°F (-20°C) to 250°F (121°C)


SCHEDULE

MODEL NUMBER	PART NUMBER	SYSTEM CONNECTION	TANK CONNECTION	TAGGING INFORMATION	QUANTITY
TPV-1/2SF	113226	1/2" Female SWT	1/2" Female NPT		
TPV-1/2FF	113227	1/2" Female NPT	1/2" Female NPT		
TPV-1/2SM	113228	1/2" Female SWT	1/2" Male NPT		
TPV-1/2FM	113229	1/2" Female NPT	1/2" Male NPT		
TPV-3/4SF	113230	3/4" Female SWT	3/4" Female NPT		
TPV-3/4FF	113231	3/4" Female NPT	3/4" Female NPT		
TPV-3/4SM	113232	3/4" Female SWT	3/4" Male NPT		
TPV-3/4FM	113233	3/4" Female NPT	3/4" Male NPT		
TPV-1SF	113234	1" Female SWT	1" Female NPT		
TPV-1FF	113235	1" Female NPT	1" Female NPT		
TPV-1SM	113236	1" Female SWT	1" Male NPT		
TPV-1FM	113237	1" Female NPT	1" Male NPT		
TPV-1 1/4 SF	113238	1 1/4" Female SWT	1 1/4" Female NPT		
TPV-1 1/4 FF	113239	1 1/4" Female NPT	1 1/4" Female NPT		
TPV-1 1/4 SM	113240	1 1/4" Female SWT	1 1/4" Male NPT		
TPV-1 1/4 FM	113241	1 1/4" Female NPT	1 1/4" Male NPT		
TPV-1 1/2 SM	113242	1 1/2" Female SWT	1 1/2" Male NPT		
TPV-1 1/2 FM	113243	1 1/2" Female NPT	1 1/2" Male NPT	For ET-1 CHW	1
TPV-2SM	113244	2" Female SWT	2" Male NPT		
TPV-2FM	113245	2" Female NPT	2" Male NPT		

*Teflon® is a registered trademark of E.I. DuPont de Nemours and Company.



Model Number	System Connection	Tank Connection	DIMENSIONS* INCH (mm)									Approx. Weight Lbs.
			A	B	C	D	E	F	G	H	J	
TPV-1/2SF	1/2" Female SWT	1/2" Female NPT	1.67 (42.4)	2.25 (57.2)	3.15 (80.0)	3.82 (97.0)	0.84 (21.3)	1.60 (40.6)	2.36 (59.9)	1.75 (44.5)	3.34 (84.8)	1.0 (0.5)
TPV-1/2FF	1/2" Female NPT	1/2" Female NPT	1.19 (30.2)	2.00 (50.8)	2.90 (73.7)	3.56 (90.4)	0.84 (21.3)	1.60 (40.6)	2.36 (59.9)	1.75 (44.5)	3.34 (84.8)	1.0 (0.5)
TPV-1/2SM	1/2" Female SWT	1/2" Male NPT	1.29 (32.8)	2.25 (57.2)	3.15 (80.0)	4.73 (120.1)	0.84 (21.3)	1.60 (40.6)	2.36 (59.9)	1.75 (44.5)	3.34 (84.8)	1.0 (0.5)
TPV-1/2FM	1/2" Female NPT	1/2" Male NPT	1.06 (26.9)	2.00 (50.8)	2.90 (73.7)	4.47 (113.5)	0.84 (21.3)	1.60 (40.6)	2.36 (59.9)	1.75 (44.5)	3.34 (84.8)	1.0 (0.5)
TPV-3/4SF	3/4" Female SWT	3/4" Female NPT	1.67 (42.4)	2.85 (72.4)	3.72 (94.5)	4.53 (115.1)	1.06 (26.9)	1.95 (49.5)	2.66 (67.6)	1.89 (48.0)	3.50 (88.9)	1.24 (0.6)
TPV-3/4FF	3/4" Female NPT	3/4" Female NPT	1.19 (30.2)	2.50 (63.5)	3.26 (82.8)	4.06 (103.1)	1.06 (26.9)	1.95 (49.5)	2.66 (67.6)	1.89 (48.0)	3.50 (88.9)	1.24 (0.6)
TPV-3/4SM	3/4" Female SWT	3/4" Male NPT	1.67 (42.4)	2.85 (72.4)	3.72 (94.5)	5.50 (140.0)	1.06 (26.9)	1.95 (49.5)	2.66 (67.6)	1.89 (48.0)	3.50 (88.9)	1.25 (0.6)
TPV-3/4FM	3/4" Female NPT	3/4" Male NPT	1.19 (30.2)	2.50 (63.5)	3.26 (82.8)	5.03 (127.8)	1.06 (26.9)	1.95 (49.5)	2.66 (67.6)	1.89 (48.0)	3.50 (88.9)	1.25 (0.6)
TPV-1SF	1" Female SWT	1" Female NPT	1.95 (49.5)	3.18 (80.8)	4.14 (105.2)	5.05 (128.3)	1.23 (31.2)	2.06 (52.3)	2.71 (68.8)	2.00 (50.8)	4.00 (101.6)	1.71 (0.8)
TPV-1FF	1" Female NPT	1" Female NPT	1.45 (36.8)	2.63 (66.8)	3.60 (91.4)	4.50 (114.3)	1.23 (31.2)	2.06 (52.3)	2.71 (68.8)	2.00 (50.8)	4.00 (101.6)	1.71 (0.8)
TPV-1SM	1" Female SWT	1" Male NPT	1.95 (49.5)	3.18 (80.8)	4.14 (105.2)	6.16 (156.5)	1.23 (31.2)	2.06 (52.3)	2.71 (68.8)	2.00 (50.8)	4.00 (101.6)	1.75 (0.8)
TPV-1FM	1" Female NPT	1" Male NPT	1.45 (36.8)	2.63 (66.8)	3.60 (91.4)	5.60 (142.2)	1.23 (31.2)	2.06 (52.3)	2.71 (68.8)	2.00 (50.8)	4.00 (101.6)	1.75 (0.8)
TPV-1½SF	1½" Female SWT	1½" Female NPT	2.13 (54.1)	3.94 (100.1)	5.14 (130.6)	6.10 (154.9)	1.34 (34.0)	2.71 (68.8)	2.96 (75.2)	2.45 (62.2)	4.50 (114.3)	3.15 (1.5)
TPV-1½FF	1½" Female NPT	1½" Female NPT	1.55 (39.4)	3.37 (85.6)	4.55 (115.6)	5.50 (139.7)	1.34 (34.0)	2.71 (68.8)	2.96 (75.2)	2.45 (62.2)	4.50 (114.3)	3.15 (1.5)
TPV-1½SM	1½" Female SWT	1½" Male NPT	2.13 (54.1)	3.94 (100.1)	5.14 (130.6)	7.11 (180.6)	1.34 (34.0)	2.71 (68.8)	2.96 (75.2)	2.45 (62.2)	4.50 (114.3)	3.19 (1.5)
TPV-1½FM	1½" Female NPT	1½" Male NPT	1.55 (39.4)	3.37 (85.6)	4.55 (115.6)	6.52 (165.6)	1.34 (34.0)	2.71 (68.8)	2.96 (75.2)	2.45 (62.2)	4.50 (114.3)	3.19 (1.5)
TPV-1½SM	1½" Female SWT	1½" Male NPT	2.54 (64.5)	4.66 (118.4)	5.90 (149.9)	8.32 (211.3)	1.85 (47.0)	3.25 (82.6)	3.38 (85.9)	3.00 (76.2)	5.30 (134.6)	5.50 (2.5)
TPV-1½FM	1½" Female NPT	1½" Male NPT	1.91 (48.5)	3.97 (100.8)	5.12 (130.1)	7.64 (194.1)	1.85 (47.0)	3.25 (82.6)	3.38 (85.9)	3.00 (76.2)	5.30 (134.6)	5.50 (2.5)
TPV-2SM	2" Female SWT	2" Male NPT	2.89 (72.4)	4.57 (116.1)	6.80 (172.7)	9.80 (248.9)	2.00 (50.8)	4.00 (101.6)	3.52 (89.4)	3.33 (84.6)	6.12 (155.5)	8.00 (3.63)
TPV-2FM	2" Female NPT	2" Male NPT	2.06 (52.3)	4.65 (118.1)	5.85 (148.6)	8.87 (225.3)	2.00 (50.8)	4.00 (101.6)	3.52 (89.4)	3.33 (84.6)	6.12 (155.5)	8.00 (3.63)

*All dimensions +/- 0.125 (3.2 mm) tolerance. Dimensions are subject to change. Not to be used for construction purposes unless certified.

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