

Document Number	Issue Date	Rev. Date
DPL83067	07/16/09	10/28/19

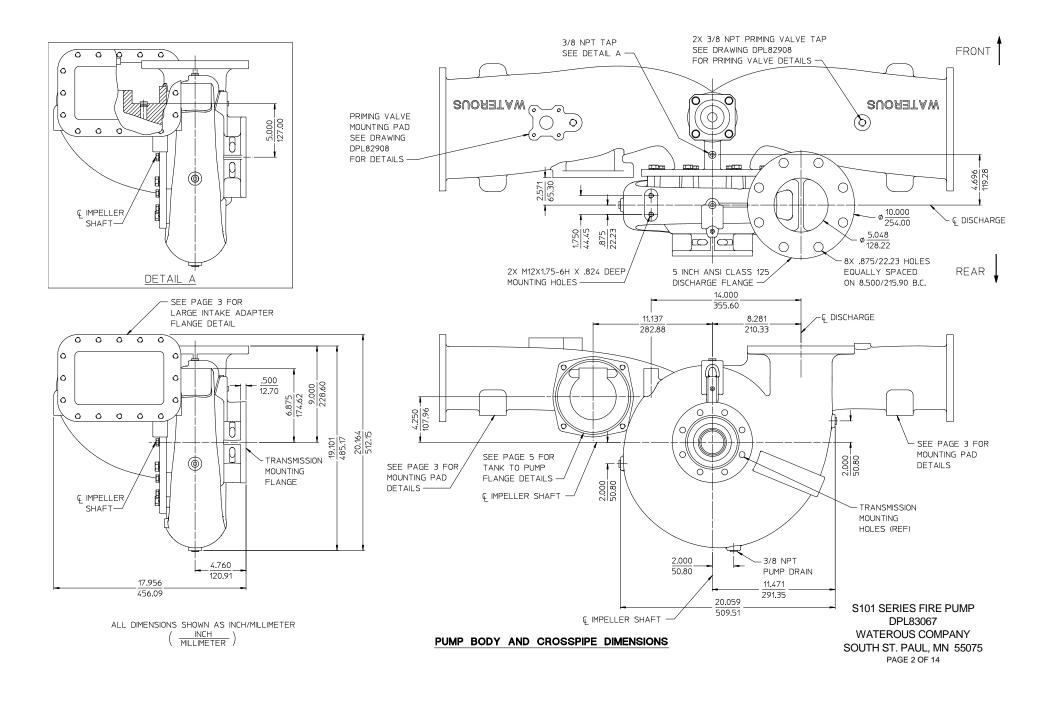
S101 Series Fire Pump Dimensional Drawings With Crosspipe Intake Fitting

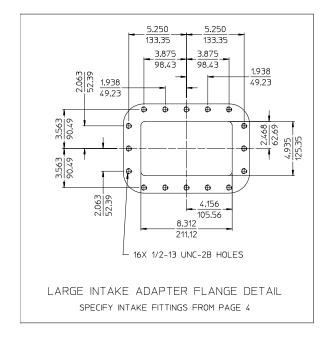
Basic Pump Dimensions (Without Transmission)					
Feature See Page					
	Pump Body Crosspi	ре	2, 3		
Body Dimensions	latalia Ossassina	Available Intake Fittings	4		
	Intake Crosspipe	Available Tank to Pump Fittings	5		
Optional Discharge	Blanek (5 in. ANSI F	Flange)	6		
Arrangements	Manifold with 4 in. E	nd Flanges	7		

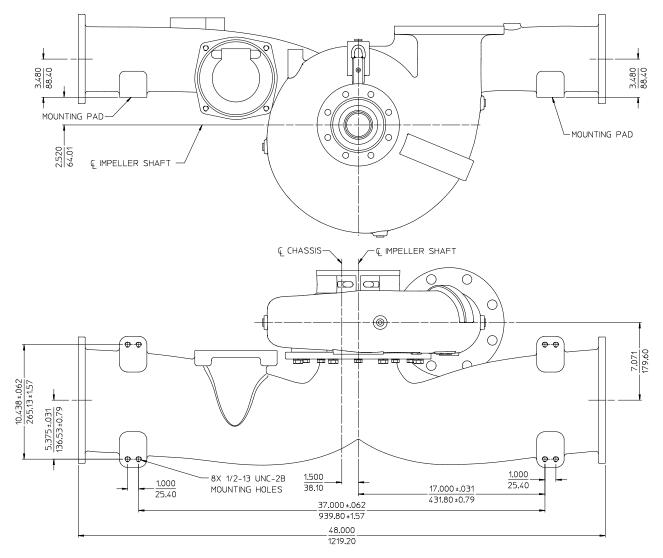
	Pump and Transmission									
	Drive				Impeller Rota- tion (2) Pump Model Assemble Number				See Page	
Туре	Mouting on tic	Input Rota- tion	Driveline Type	Rota- tion			Mou	ic Pump nting ision	Available Pump Discharge Positions and	Optional Discharge Manifold Mounting on Pump
	Transmission	(1)	1,45	(2)				Yes	Ordering Info	(Perpendicular to In- take Only)
C20 Series Split Shaft	Front	OW	Input and Output Shaft	CW	S101C20C S101C20D S101C20E S101C20F	83067	8, 12	9, 12	12	44
Chain Drive Transmis- sion	(Input Shaft Side)	CW	Input Shaft Only	CW	\$101C20C \$101C20D \$101C20E \$101C20F	83067-1	10, 12	11, 12	13	14

Notes:

- 1. Input rotation is vewed looking directly at the transmission input shaft or direct drive end yoke.
- 2. Impeller rotation is viewed looking directly at the intake fitting (impeller eye).



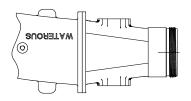


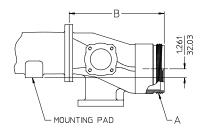


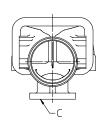
ALL DIMENSIONS SHOWN AS INCH/MILLIMETER $\left(\begin{array}{c} \text{INCH} \\ \hline \text{MILLIMETER} \end{array} \right)$

PUMP BODY AND CROSSPIPE DIMENSIONS

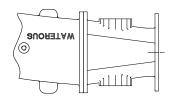
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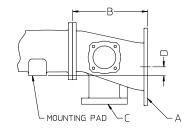


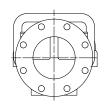




TYPE	END SIZE *A*	LENGTH "B"	BOTTOM FLG "C"	RELIEF VALVE	PART NO.
		10.500	3-1/2 IN. 8 BOLT	N0	81929
		266.70	NO	YES	82164
	6 IN. NH		5 IN. ANSI	YES	82167
		13.500 342.90	3-1/2 IN. 8 BOLT	NO	81916
THREADED			NO	YES	82173
			5 IN. ANSI	YES	82174
		15.000 381.00	3-1/2 IN. 8 BOLT	N0	81915
			NO	YES	82163
			5 IN. ANSI	YES	82166







TYPE	END SIZE "A"	LENGTH "B"	BOTTOM FLG "C"	*D*	RELIEF VALVE	PART NO.
		6.750	2-1/2 IN. 4 BOLT	1.980	NO	82289
	GED 6 IN. ANSI -	171.45	NO	50.29	YES	82301
FLANGED			5 IN. ANSI	30.29	YES	82302
FLANGED		10.625 269.88	3-1/2 IN. 8 BOLT	1.261	NO	82011
			NO	32.03	YES	82165
		209.00	5 IN. ANSI	32.03	YES	82168

THREADED INTAKE FITTING

PART 81916 SHOWN

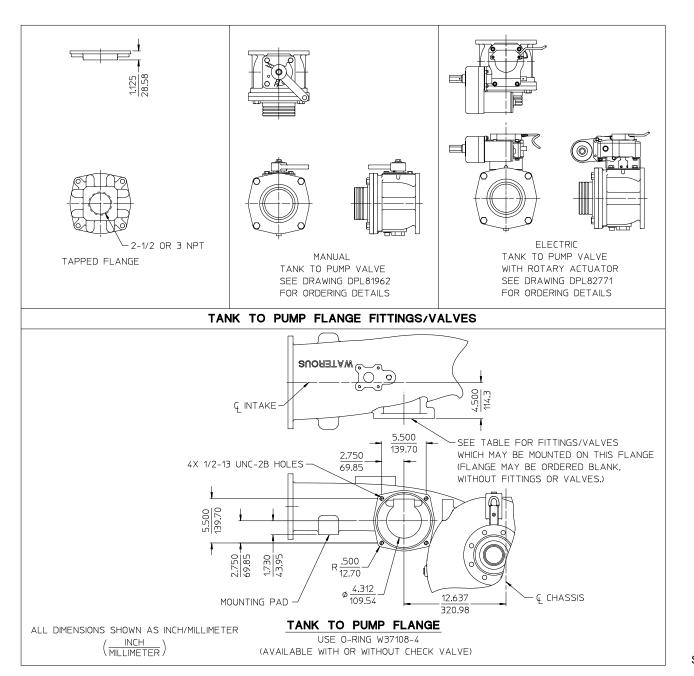
FLANGED INTAKE FITTING
PART 82011 SHOWN

NOTE:

1. REFER TO DIMENSIONAL DPL81867 FOR ADDITIONAL INTAKE FITTING DIMENSIONS AND PAD DETAILS.

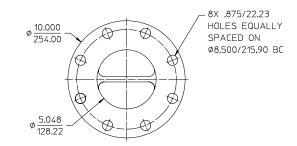
ALL DIMENSIONS SHOWN AS INCH/MILLIMETER $\left(\frac{\text{INCH}}{\text{MILLIMETER}}\right)$

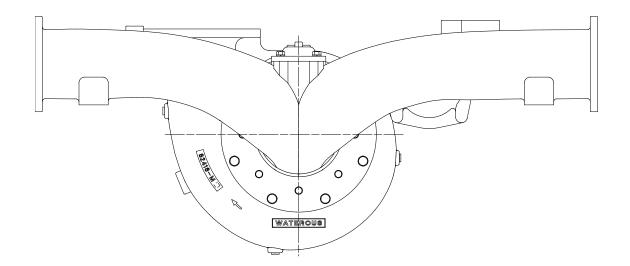
S101 SERIES FIRE PUMP DPL83067 WATEROUS COMPANY SOUTH ST. PAUL, MN 55075 PAGE 4 OF 14

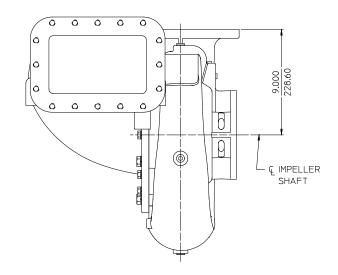


AVAILABLE TANK TO PUMP FITTINGS

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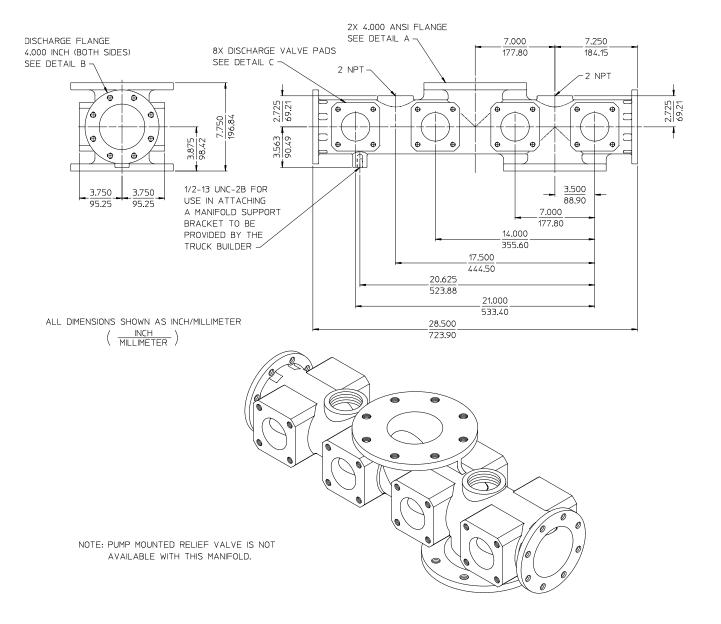




ALL DIMENSIONS SHOWN AS INCH/MILLIMETER $\left(\begin{array}{c} INCH \\ \hline MILLIMETER \end{array} \right)$

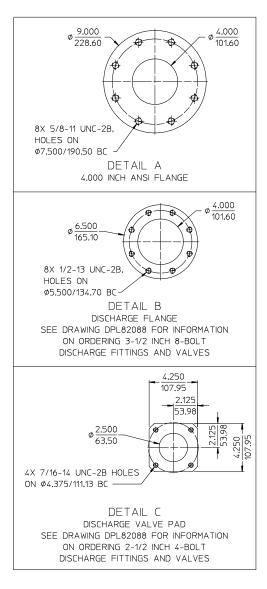
OPTIONAL BLANK DISCHARGE (5 IN. ANSI FLANGE)

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OPTIONAL DISCHARGE MANIFOLD WITH 4 IN. END FLANGES

SEE PAGE 14 FOR MANIFOLD MOUNTING ON PUMP

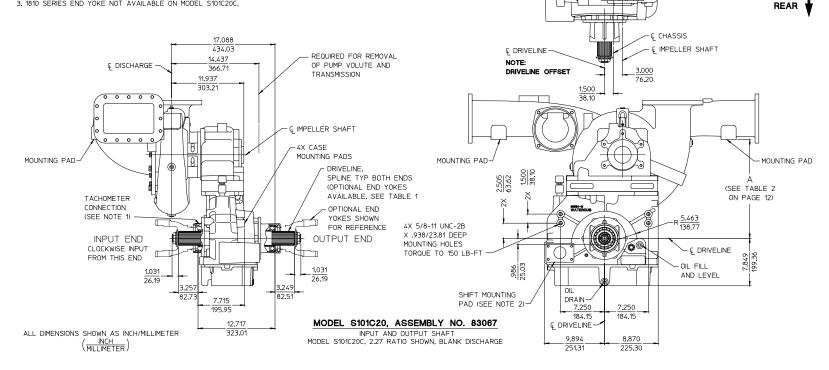


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	TABLE 1 - AVAILABLE DRIVELINE / MODELS																										
DRIVELINE			I		YOKES AND COMPA																						
			FL	ANGES AVAIL	ABLE FROM WATE	ROUS	PUMP																				
TYPE	SIZE	SPLINE	SPICER	Y	OKE	COMPANION	MODELS																				
		NCH 2.350-46T INVOLUTE		SERIES	PART NUMBER	CROSS AND BEARING KIT	FLANGE	11002220																			
			1480/1610			V 3719																					
EXTRA HEAVY			1650/1710			V 3619	S101C20C.																				
DUTY	2.35 INCH																						1710 BP	V 2837	V 2839		S101C20C, S101C20D.
DOTT			1810 BP (3)	V 2838	V 2840		S101C20E,																				
		1710 HR	V 4101			S101C20E,																					
			1810 HR (3)	V 4102			31010201																				
			SPL140	V 3388	V 3389																						

NOTES:

- 1. SEE DRAWING DPL83065 FOR ADDITIONAL DETAILS OF
- C20 SERIES TRANSMISSIONS.
- 2. SEE DRAWING DPL82086 FOR SHIFT UNIT DETAILS.
- 3. 1810 SERIES END YOKE NOT AVAILABLE ON MODEL S101C20C.



48.000 1219.20

SUORETAW

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WATEROUS |

S101 SERIES FIRE PUMP DPL83067 WATEROUS COMPANY SOUTH ST. PAUL, MN 55075 PAGE 8 OF 14

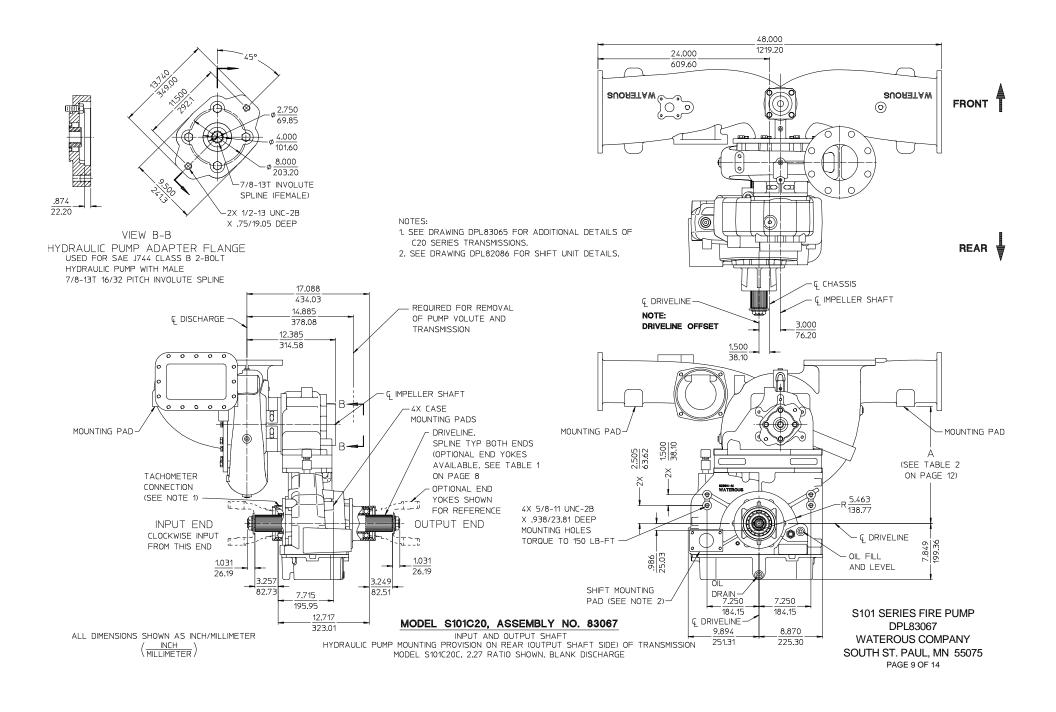
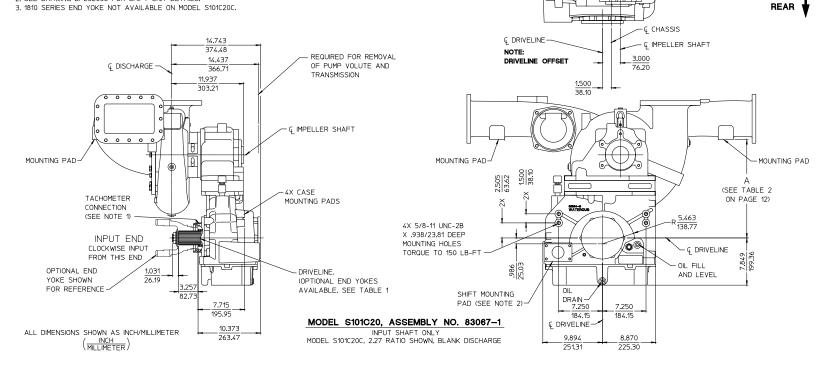


TABLE 1 - AVAILABLE DRIVELINE / MODELS							
D	RIVELINE			OPTIONAL END YOKES AND COMPANION FLANGES AVAILABLE FROM WATEROUS			
TYPE	SIZE	SPLINE	SPICER	YOKE		COMPANION	PUMP MODELS
		5 INCH 2.350-46T INVOLUTE	SERIES	PART NUMBER	CROSS AND BEARING KIT	FLANGE	1.00000
EXTRA HEAVY			1480/1610			V 3719	C404C20C
DUTY	2.35 INCH		1650/1710			V 3619	S101C20C, S101C20D.
DOTT			1710	V 2837	V 2839		S101C20D, S101C20E.
			1810 (3)	V 2838	V 2840		S101C20E,
			SPL140	V 3388	V 3389		31010201

NOTES:

- 1. SEE DRAWING DPL83065 FOR ADDITIONAL DETAILS OF
- C20 SERIES TRANSMISSIONS.
- 2. SEE DRAWING DPL82086 FOR SHIFT UNIT DETAILS.
- 3. 1810 SERIES END YOKE NOT AVAILABLE ON MODEL S101C20C.



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SUORETAW

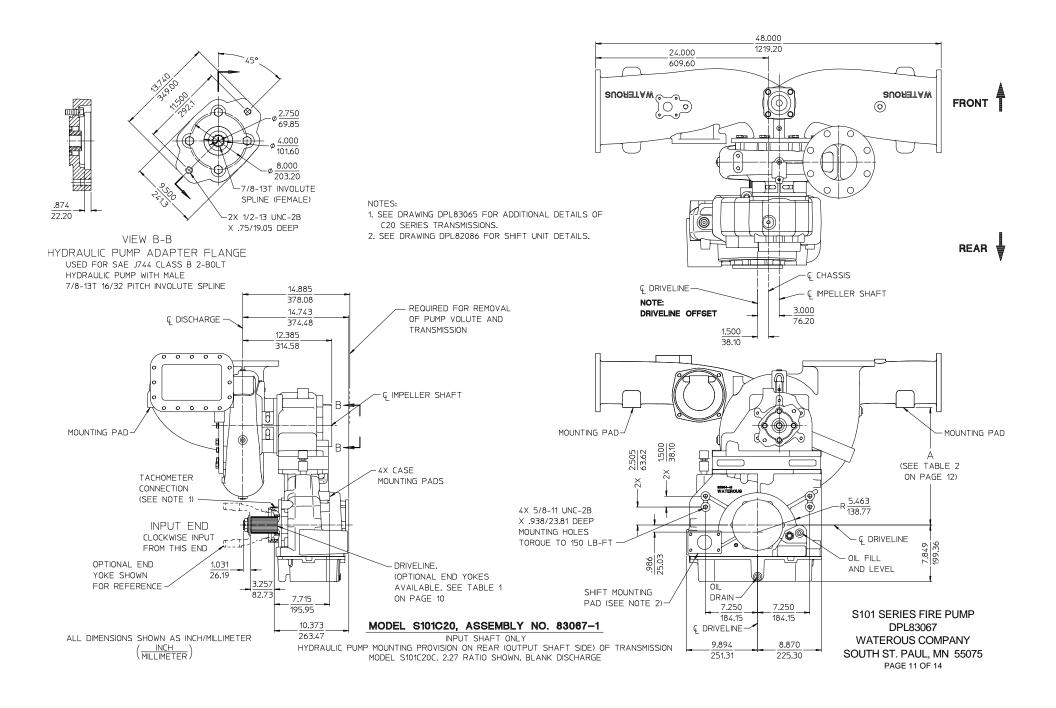
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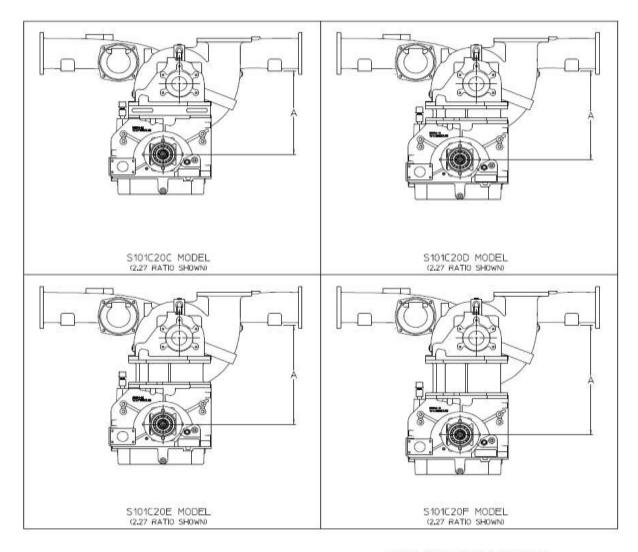
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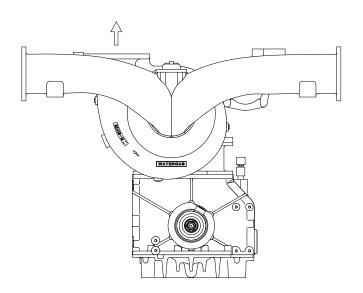


TAE	3LE 2 -	AVAILA	BLE RA	TIOS				
DRIVE TO	DIMENSION A							
RATIO	S101C20C	S101C20D	S101C20E	S101C20F				
1.27	16.832	17.345	19.381	21.412				
	427.52	440.56	492.27	543.86				
1.41	16.419	17.451	19,491	21.522				
	417.03	443.25	495,06	546.65				
1.48	16,398	17,427	19.471	21,501				
	416,50	442,64	494.56	546,12				
1,58	16.276	17.308	19,350	21,381				
	413.40	439.62	491.48	543.07				
1,69	16.359	17.396	19.443	21.481				
	415.51	441.85	493.84	545.61				
1,79	16.565	17.592	19,647	21.688				
	420.74	446.83	499.03	550.87				
1,88	16.210	17.237	19.293	21.329				
	411.73	437.81	490.03	541.75				
1.97	16.390	17.432	19.490	Z1.532				
	416.30	442.76	495.04	546.90				
2.03	16.504	17.548	19.606	21.652				
	419.19	445.71	497.98	549.95				
2,27	16.331	17.376	19.440	21.491				
	414,80	441,34	493.77	545,86				
2.46	16,562	17,607	19,674	21.725				
	420,67	447,21	499,71	551,81				
2.68	16.266	17.313	19.385	21.443				
	413.16	439.75	492.38	544.65				

ALL DIMENSIONS SHOWN AS INCH/MILLIMETER $\Big(\frac{\text{INCH}}{\text{MILLIMETER}}\Big)$

RATIO AND DROP DIMENSIONS

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PUMP DISCHARGE IS ONLY AVAILABLE IN THE UP POSITION POSITION AS VIEWED LOOKING AT TRANSMISSION INPUT SHAFT.

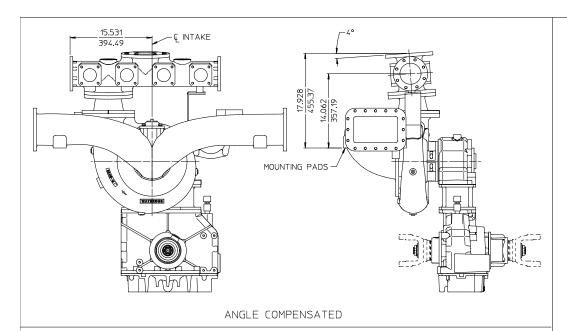
DISCHARGE POSITION

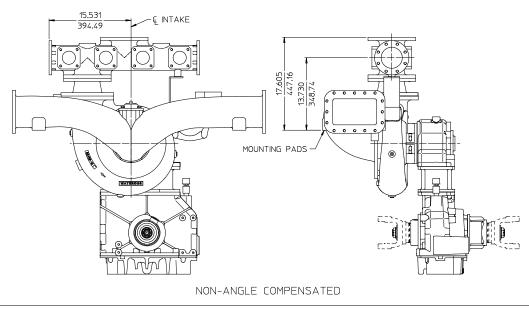
ORDERING INFORMATION

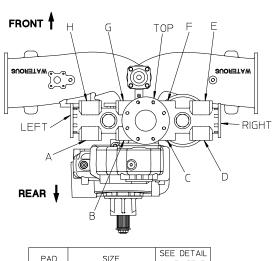
WHEN ORDERING FURNISH THE FOLLOWING INFORMATION:

- 1. PUMP MODEL: (SEE PAGES 8-11).
- 2. DRIVE TO DRIVEN RATIO: (SEE PAGE 12).
- 3. HYDRAULIC ADAPTER (SEE PAGES 9 OR 11).
- 4. OPTIONAL DISCHARGE FITTING: (SEE PAGES 6 OR 7 AND 14).
- 5. ASSEMBLY NUMBER (SEE PAGES 8-11)

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PAD	SIZE	SEE DETAIL ON PAGE 7
LEFT	4 IN. 8-BOLT	В
RIGHT	4 IN. 8-BOLT	В
TOP	4 IN. ANSI	Α
Α	2-1/2 IN. 4-BOLT	С
В	2-1/2 IN. 4-BOLT	С
C	2-1/2 IN. 4-BOLT	С
D	2-1/2 IN. 4-BOLT	С
E	2-1/2 IN. 4-BOLT	С
F	2-1/2 IN. 4-BOLT	С
G	2-1/2 IN. 4-BOLT	С
Н	2-1/2 IN. 4-BOLT	С

MANIFOLD PADS

MANIFOLD MOUNTED PERPENDICULAR TO INTAKE MODEL \$101C20, ASSEMBLY NO'S. 83067 AND 83067-1

NOTE: SEE PAGE 7 FOR MANIFOLD DIMENSIONS NOT SHOWN

ALL DIMENSIONS SHOWN AS INCH/MILLIMETER $\left(\frac{\text{INCH}}{\text{MILLIMETER}}\right)$

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