

 Document Number
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 DPL 83002
 08/27/09
 10/27/15

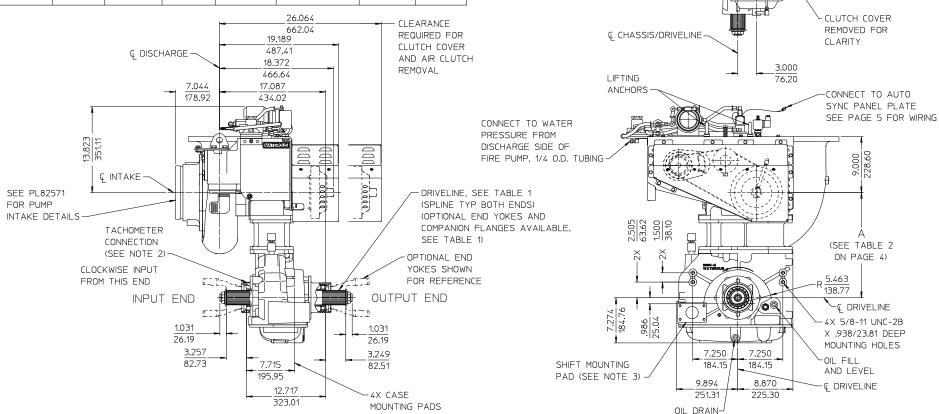
# S100C20 Series Fire Pump with Eclipse ES™ CAFS Dimensional Drawings

		See Page			
	Item	Input and Output Shaft	Input Shaft Only		
Pump Models		2	3		
Ratio and Drop	Dimensions	4	4		
Compressor	Electrical and Plumbing Schematics	5	5		
	Components Shipped Loose	6, 7	6, 7		
S100 Pump Intake and Discharge Options		See DPL82571			
C20 Transmiss	sion Options	See DPLo23/1			

Note: When ordering furnish the following information:

- 1. Pump Models (See pages 2 or 3)
- 2. Drive to Driven Ratio (See page 4)
- 3. Discharge Position: Discharge Flange Facing Up is the only available position
- Optional Discharge Fitting See DPL82571.
   Note that the optional discharge manifold may only be mounted perpendicular to the pump intake.
- 5. Assembly Number: 83002

TABLE 1 - AVAILABLE DRIVELINE / MODELS								
DRIVELINE			OPTIONAL END YOKES AND COMPANION FLANGES AVAILABLE FROM WATEROUS				PUMP	
TYPE	SIZE	SPLINE	SPICER SERIES	PART NUMBER	OKE CROSS AND BEARING KIT	COMPANION FLANGE	MODELS	
EXTRA HEAVY DUTY	2.35 INCH	2.350-46T INVOLUTE	1480/1610			V 3719	\$100C20C, \$100C20D, \$100C20E, \$100C20F	
			1650/1710			V 3619		
			1710	V 2837	V 2839			
			1810	V 2838	V 2840			
			SPL140	V 3388	V 3389			



#### NOTES:

- 1. SEE TABLE 2 ON PAGE 4 FOR AVAILABLE RATIOS.
- 2. SEE DRAWING DPL83065 FOR ADDITIONAL DETAILS OF C20 SERIES TRANSMISSION.
- 3. SEE DRAWING DPL82086 FOR SHIFT UNIT DETAILS

<u>\$100C20</u> SERIES WITH ECLIPSE ES CAFS ALL DIMENSIONS SHOWN AS INCH/MILLIMETER

CONNECT TO AIR SUPPLY DOWNSTREAM

OF SEPARATOR FILTER AND UPSTREAM OF MIN. PRESSURE VALVE. #4 JIC.

SEE PAGE 5 -

∕ € INTAKE

FRONT ]

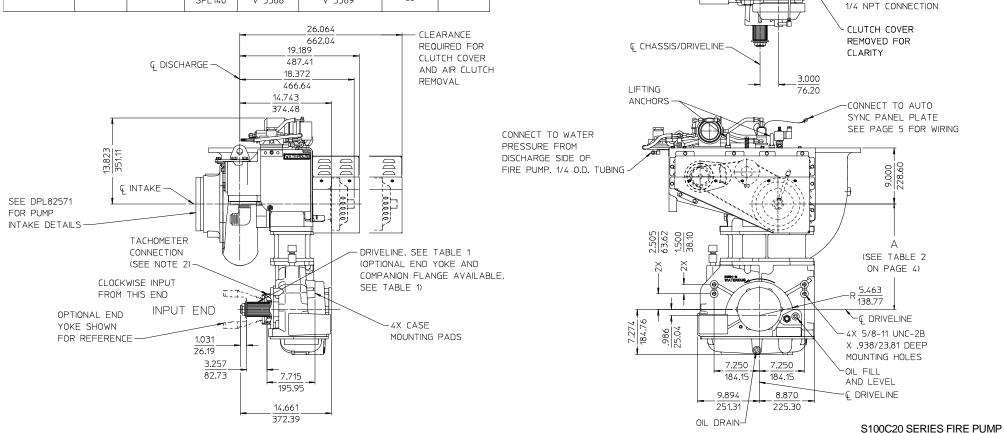
REAR

CONNECT TO TRUCK AIR 1/4 NPT CONNECTION

INPUT AND OUTPUT SHAFT
CLOCKWISE INPUT, MODEL S100VC20E, 2.27 RATIO SHOWN
BLANK DISCHARGE SHOWN

S100C20 SERIES FIRE PUMP DPL83002 WATEROUS COMPANY SOUTH ST. PAUL, MN 55075 PAGE 2 OF 7

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			1650/1710	1		V 3619		
			1710	V 2837	V 2839			
			1810	V 2838	V 2840		S100C20F	
			SPL140	V 3388	V 3389			



#### NOTES:

- 1. SEE TABLE 2 ON PAGE 4 FOR AVAILABLE RATIOS.
- SEE DRAWING DPL82994 FOR ADDITIONAL DETAILS OF C20 SERIES TRANSMISSION.

#### S100C20 SERIES WITH ECLIPSE ES CAFS

INPUT SHAFT ONLY
CLOCKWISE INPUT, MODEL S100C20E, 2.27 RATIO SHOWN
BLANK DISCHARGE SHOWN

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

CONNECT TO AIR SUPPLY DOWNSTREAM

OF SEPARATOR FILTER AND UPSTREAM

OF MIN. PRESSURE VALVE. #4 JIC.

SEE PAGE 5 -

√€ INTAKE

FRONT T

REAR

CONNECT TO TRUCK AIR

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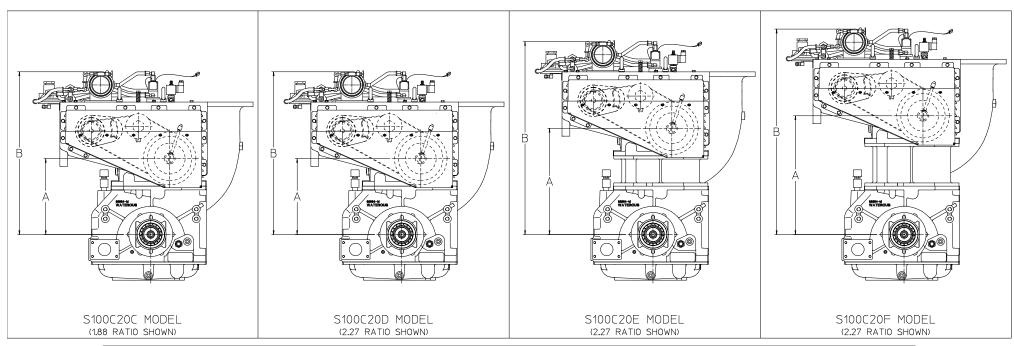
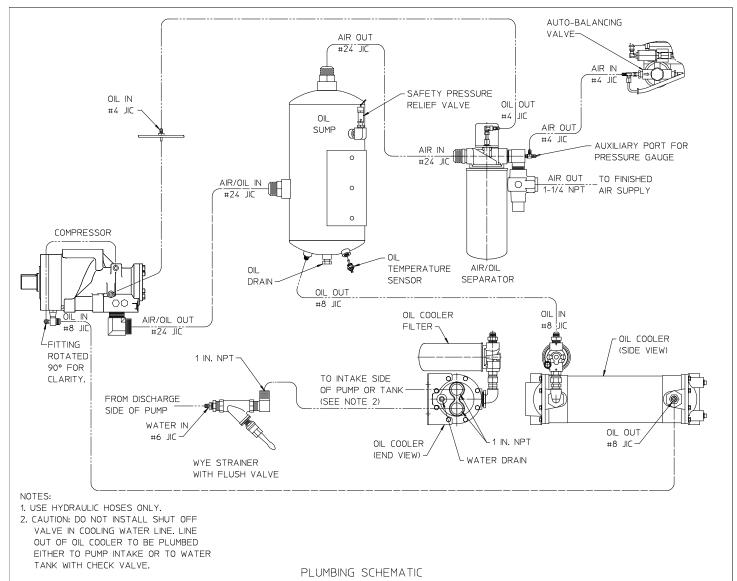
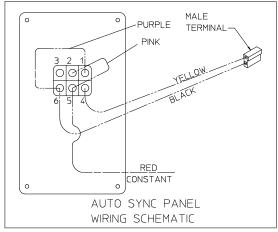


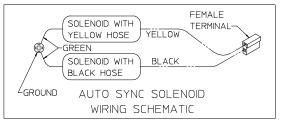
TABLE 2 - AVAILABLE RATIOS								
DRIVE TO S100C20C		S100C20D		S100C20E		S100C20F		
RATIO	DIMENSION A	DIMENSION B						
1.27	14.312/363.52	28.135/714.63	14.825/376.56	28.648/727.67	16.861/428.27	30.684/779.38	18.892/479.86	32.715/830.97
1.41	13.899/353.03	27.722/704.14	14.931/379.25	28.754/730.36	16.971/431.06	30.794/782.17	19.002/482.65	32.825/833.76
1.48	13.878/352.50	27.701/703.61	14.907/378.64	28.730/729.75	16.951/430.56	30.774/781.67	18.981/482.12	32.81/833.23
1.58	13.756/349.40	27.579/700.51	14.788/375.62	28.611/726.73	16.830/427.48	30.653/778.59	18.861/479.07	32.684/830.18
1.69	13.839/351.51	27.662/702.62	14.876/377.85	28.699/728.96	16.923/429.84	30.746/780.95	18.961/481.61	32.784/832.72
1.79	14.045/356.74	27.868/707.85	15.072/382.83	28.895/733.94	17.127/435.03	30.95/786.14	19.168/486.87	32.991/837.98
1.88	13.690/347.73	27.513/698.84	14.717/373.81	28.540/724.92	16.773/426.03	30.59/777.14	18.809/477.75	32.632/828.86
1.97	13.870/352.30	27.693/703.41	14.912/378.76	28.735/729.87	16.970/431.04	30.793/782.15	19.012/482.90	32.835/834.01
2.03	13.984/355.19	27.807/706.30	15.028/381.71	28.851/732.82	17.086/433.98	30.909/785.09	19.132/485.95	32.955/837.06
2.27	13.811/350.80	27.634/701.91	14.856/377.34	28.679/728.45	16.920/429.77	30.743/780.88	18.971/481.86	32.794/832.97
2.46	14.042/356.67	27.865/707.78	15.087/383.21	28.910/734.32	17.154/435.71	30.977/786.82	19.205/487.81	33.028/838.92
2.73	14.115/358.52	27.938/709.63	15.173/385.39	28.996/736.50	16.738/425.15	30.561/776.25	18.808/477.72	32.631/828.83

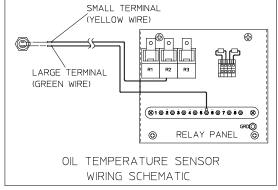
ALL DIMENSIONS SHOWN AS INCH/MILLIMETER  $\left(\frac{\text{INCH}}{\text{MILLIMETER}}\right)$ 

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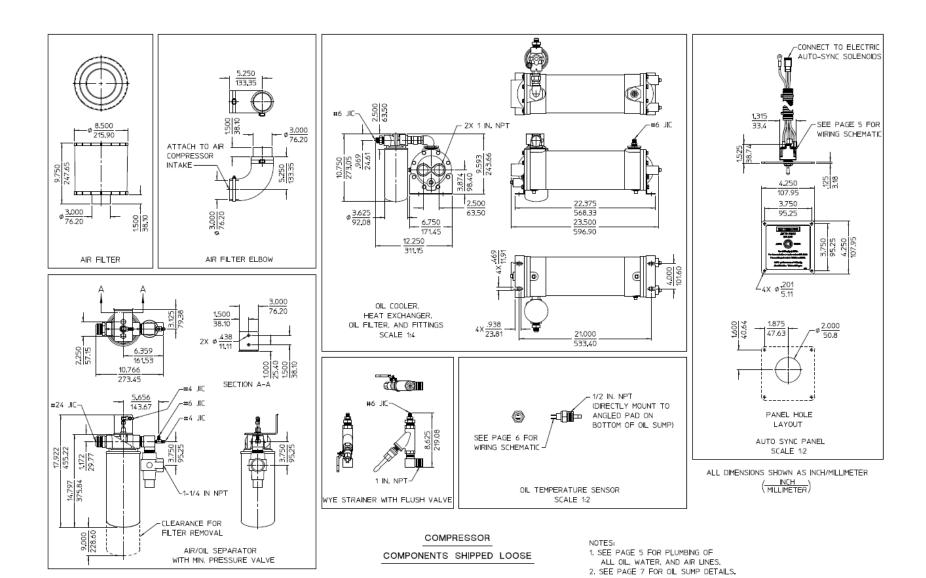




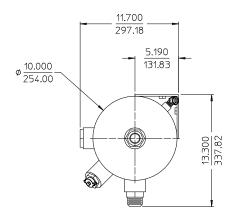
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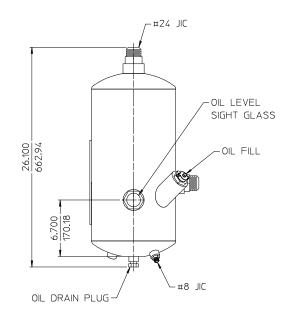
ALL DIMENSIONS SHOWN AS INCH/MILLIMETER  $\left(\frac{\text{INCH}}{\text{MILLIMETER}}\right)$ 

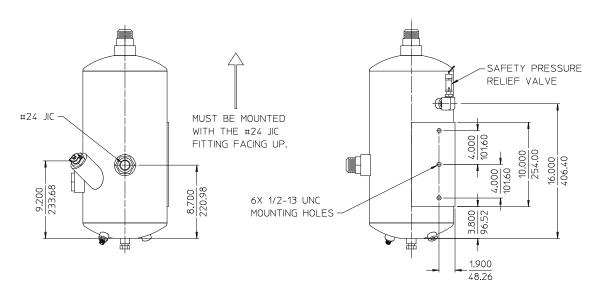
COMPRESSOR
ELECTRICAL AND PLUMBING SCHEMATICS



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

OIL SUMP

### NOTES:

- 1. SEE PAGE 5 FOR PLUMBING OF ALL OIL, WATER, AND AIR LINES.
- 2. OIL LEVEL IN OIL RESERVOIR SHOULD
  BE AT LOWER ELEVATION THAN COMPRESSOR.
  IF OIL RESERVOIR MUST BE PLACED HIGHER
  THAN COMPRESSOR, CONTACT PNEUMAX FOR
  ADDITIONAL PARTS THAT MUST BE INSTALLED.

## COMPRESSOR COMPONENTS SHIPPED LOOSE

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