

Data Sheet

Form No.	Issue Date	Rev. Date
DS-1015	05/25/01	1/7/22

WATEROUS S100 SERIES PUMPS

DESCRIPTION: MIDSHIP MOUNTED SINGLE STAGE CENTRIFUGAL FIRE PUMP \$100 PUMPS ARE AVAILABLE AS FOLLOWS:

Table 1. Available Pump Models

			Transmission		Pump and Transmission			Hydraulic		
Intake	Pump Model	Discharge	Series	Input Rotation	Driveline	Model	Pump Mounting on Transmis- sion	Eclipse ES CAFS	Pump Mounting Provision (See Note 1)	See Dwg
8 in. Victaulic S100			C20	cw	2.35-46T Spline	Front (Input Shaft Side)		Without	With or Without	DPL82571
								With	Not Available	DPL82649
	2400	4 in. or 5 in. ANSI Flange					Rear (Output Shaft Side)	Not Available	With or Without	
	5100	or Manifold	D (See Note 2)	CW or CCW	1410 Series End Yoke	S100D	-	Not Available	Not Available	DPL82571
			PA	CW	1-1/2-10 SAE Spline	S100PA	Input Shaft Side	Not Available	Not Available	
			QC Direct Engine Mount	CW	1-3/4-10 SAE Spline	S100QC	Opposite Side of Input Shaft	Not Available	Not Available	
Crosspipe	S101	4 in. or 5 in. ANSI Flange or Manifold	C20	2.35-46T Spline	2.35-46T Spline	\$101C20C \$101C20D \$101C20E \$101C20F	Front (Input Shaft Side)	Not Available	With or Without	DPL83067

Table 2. Available Rated Capacities

Model		U.S. GPM	Additional		
Pump	Intake	Pump and Transmission	0.3. GFW	Dual Rating	
S100 8 in. Victaulic		S100C20B	1250	1500	
		S100C20C	1500	1250 or 2000	
	S100C20D	1750	2000		
	8 in Victaulie	S100C20E	0000		
	o III. Victaulic	S100C20F	2000 (See Note 3)	1500 or 1750	
		S100D	(800 71010 0)		
		S100PA	1250	1500	
			1500	Not Available	
S101	Crosspipe	S101C20C	1250	Not Available	
		S101C20D	1500	Not Available	
		S101C20E S101C20F	1750	Not Available	
			2000	Not Available	

Notes:

- 1) Hydraulic Pump Mounting Provision consists of an SAE Class B 2-bolt flange with a 3/4-13T, 16/32 internal involute spline on the transmission end opposite of the pump.
- 2) S100D Direct Drive pump has mounting pads on the bearing housing, pump body and intake adapter.
- 3) 2000 GPM rated S100 pump models incorporate an intake inducer.

DS-1015 Page 1 of 6

SPECIFY A COMPLETE PUMP AS FOLLOWS:

1.) VEHICLE INFORMATION

(See order form)

2.) PUMP INFORMATION

Rated Capacity-

See table 2

Certification-

NFPA or list other

Additional (Dual) Rating-

See table 2

3.) PUMP MODEL

Pump and Transmission Model-

See table 1

Material-

Standard - Ductile iron body and fittings, bronze fitted (See form F-2011 for additional information on materials)

Pump Discharge Position-

S100C20 Series & S100PA: Left, Up, Right (See DPL82571 or DPL82649 for Restrictions)

S100D Model: Left, Up S101C20 Series: Up Only

Bearing Housing Bracket Position (S100D Model Only)-

Inverted or Vertical

4.) TRANSMISSIONS

4a.) C20 Series - See data sheet DS-2006

PA Series - See data sheet DS-2004

QC Series - See data sheet DS-1011 and DS-1022

4b.) Direct Drive -

Input Rotation: CW or CCW Input Shaft: 1-3/8-10 SAE Spline

DS-1015 Page 2 of 6

5.) IMPELLER SHAFT

Shaft Material-

Standard: 17-4 Stainless steel

Seal Type-

Standard: Self-adjusting mechanical seal

Impeller Part No.-

S100C20 Series ——8 in. Intake	83012 (Front Mounted Pump) 82911 (Rear Mounted Pump)
S100PA Series ——8 in. Intake	
S100D Series ——— 8 in. Intake	82911 (CW Input) 83012 (CCW Input)
S101C20 Series — Crosspipe I	ntake — 83012 (Front Mounted Pump)

6.) PRESSURE CONTROL SYSTEM

- **6a.)** Discharge Relief Valve- Builder Supplied Governor System or Waterous supplied, See Data Sheet DS-4004
- **6b.) Intake Relief Valve-** See data sheet DS-4004

DS-1015 Page 3 of 6

7.) INTAKE

7a.) Intake, S100 Models

- 1.) Intake Size 8 in. Victaulic®
- 2.) Intake Screen

7b.) Intake, S101 Models

1.) Tank to Pump Connection

Check Valve: With or without

Fitting: Blank (no fitting), 2-1/2 in. NPT, 3 in. NPT, blind flange

(Note: 4 in. ANSI flange not available)

or

Tank to Pump Valve:

Fitting: 3-1/2 in. angle comp. hose connection

4 in. non-angle comp. hose connection

4 in. angle comp. hose fitting

With Manual Operator Handle:

Mounting: Top or left

Fig. No. (Open-Close Position): 1 through 16 (see DPL81962)

With Electric Rotary Actuator:

Mounting: Top (see DPL82771)

Voltage: 12 or 24 Volt

With Manual Rotary Actuator Handle (Indicating):

Mounting: Top

Fig. No. 1-2 (see dwg DPL83630)

Voltage: 12 or 24 Volt

With Manual Rotary Actuator Handle (Indicating):

Mounting: Top

Fig No. 1-2 (see dwg DPL83630)

2.) Left and Right Intake Fittings

Select a fitting to be mounted on the pump plus any auxiliary fittings mounted on the main fitting pads. Also select an intake screen if required.

See data sheet DS-4003.

DS-1015 Page 4 of 6

8.) DISCHARGE

8a.) Discharge Fitting-

(Blank) No Fitting 5 in. ANSI Flange

OI

Manifold with 4 in. end flanges and (8) 2-1/2 in. 4-bolt pads mounted parallel or perpendicular to intake (with 4° angle compensated or without angle compensation)

0

Manifold with 3-1/2 in. end flanges and (2) 2-1/2 4-bolt and (2) 2 in. NPT side pads mounted parallel or perpendicular to intake (with 4° angle compensation or without angle compensation)

or

5 in. ANSI to 4 in. ANSI flange adapter (with 4° angle compensation or without angle compensation)

8b.) Manifold-

Select any auxiliary fittings and discharge valves which are to be mounted on the discharge manifold.

See data sheet DS-4001 (auxiliary fittings)

See data sheet DS-4000 (discharge valves)

8c.) Additional Discharge Valves-

List all valves to be shipped loose

See data sheet DS-4000

8d.) Discharge Valve Accessories-

List any control rods, panel items, etc.

See data sheet DS-4000

9.) PRIMING SYSTEM

- **9a.) Priming Pump-** See data sheet DS-4002
- **9b.) Priming Valve-** See data sheet DS-4002
- 9c.) Optional Lubricant Tank- See data sheet DS-4002
- 9d.) Prime-Safe Lubricant- See data sheet DS-4002

10.) FOAM SYSTEM

- 10a.) Foam Manager- See data sheet DS-4010
- **10b.) Accessories-** See data sheet DS-4010

11.) ECLIPSE ES SYSTEM

Available with S100 models only, not available with S101 models. (See table on page 1)

12.) DRAIN VALVE

See data sheet DS-4006

DS-1015 Page 5 of 6

13.) MISCELLANEOUS

13a.) Additional Fittings- List any additional discharge and auxiliary fittings which are to be shipped loose

See data sheet DS-4001

13b.) Other Items- List any miscellaneous items such as Monarch BFV items, kits as required See data sheet DS-4009

14.) SPECIALITY OPTIONS

- **14a.) Warranty-** See data sheet DS-4008
- 14b.) Paint- See data sheet DS-4008
- **14c.) Extra Operators Manuals-** See data sheet DS-4008
- **14d.) Operation and Maintenance Video-** See data sheet DS-4008

DS-1015 Page 6 of 6