

# FLOJET

## a xylem brand

**VersiJet Series**  
Industrial Diaphragm Pump  
Model: Q451F-168S-2P

This document provides technical information relating to this specific Flojet model. General information, references and further resource locations are also included.

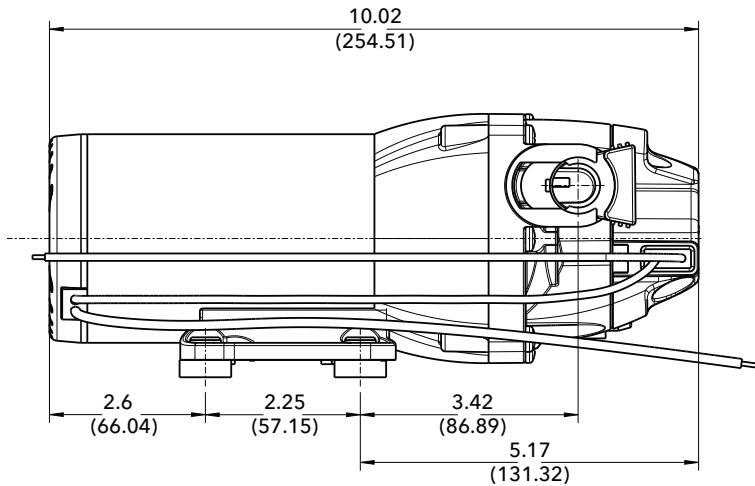
VersiJet industrial pumps are designed to be durable and long-lasting, capable of satisfying pumping needs for a wide variety of applications. Typical pump uses are liquid transfer, spraying, cooling, circulation, filtration and dispensing.

### Features:

- Heavy duty, coated motor
- Long life co-molded diaphragm
- Efficient, quiet operation
- Self-priming
- Runs dry without damage

### Contents:

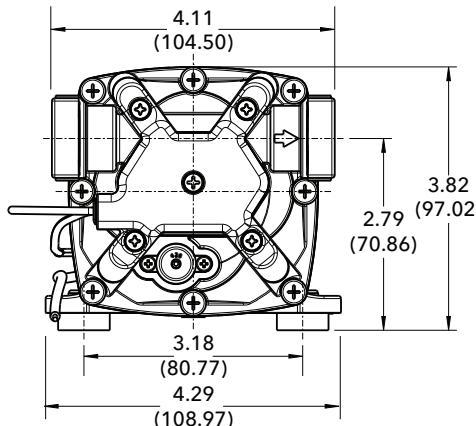
Pump unit:	VersiJet 12V 4.5GPM SW 60PSI BP VersiJet 12V 17LPM SW 4.1BAR BP
Port fittings:	2 x 3/4" (19mm) straight hosebarb
Strainer:	Not included
IOM:	Included (PN 81000480)
Carton type:	Plain box
Master pack qty:	4



### Dimensional Drawing

Notes: Inches [mm]

Additional envelope space required to allow port clips to extend, wires to bend, port fittings and hoses, etc.



## Specifications:

### General

Part Number:	Q451F-168S-2P
Aftermarket replacement:	Not Available
Replaces:	04300504 / R4300504
Application:	Industrial Fluid Transfer & Spray
Design:	4 Chamber Diaphragm Quick Connect Ports TENV Permanent Magnet Motor Noise Dampening Baseplate Thermal Motor Protection (TCO)

### Materials (\*designates wetted path)

Upper Housing*:	Glass-filled polypropylene
Lower Housing:	Cast Aluminum
Check Valve Retainer*:	Polypropylene
Diaphragm*:	Santoprene
Check Valves*:	Viton
Switch diaphragm*:	Viton
Bypass Diaphragm*:	Viton
PH Seals*:	Viton
PH Fasteners:	Stainless Steel
Baseplate:	Nylon with Rubber Feet
Motor Casing:	Cast Aluminum; Coated Steel

### Hydraulic Performance (at nominal voltage)

Open Flowrate:	4.5 GPM open flow (17 LPM)
Pressure Switch Cut-Off:	60 PSI (4.1 BAR)
Max Operating Pressure:	60 PSI (4.1 BAR)
Max Inlet Pressure:	30 PSI (2.2 BAR)
Internal Bypass:	Yes
Fluid Temperature Range:	32°F - 140°F (0°C - 60°C)
Self-Priming Capability:	Up to 8ft (2.4m) dry prime
Run-Dry Capable:	Yes

### Electrical Performance (at nominal voltage)

Nominal Voltage:	12 VDC
Voltage Range:	9 VDC - 13.6 VDC
Max Current Draw:	14 Amps @ 60 PSI (4.4 BAR)
Fuse Size:	20 Amps (not included)
Duty Cycle:	Intermittent (See heat-rise chart)
Leads:	12" (305mm), 14 AWG (2.5mm <sup>2</sup> )
Wire Connection:	Stripped Wire

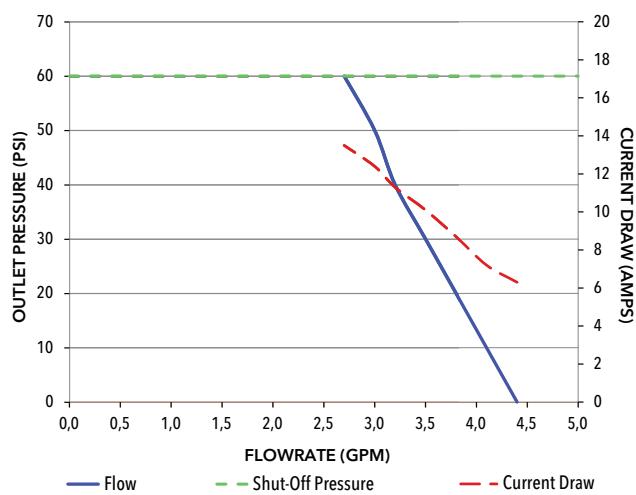
### Compliance

CE:	Yes
RCM:	Yes
UKCA:	Yes
WEEE:	Yes
Country of Origin:	China
HTS Code:	8413.50.0050

### Other Information

Other Information:	Industrial
Ambient Temp Range:	32°F - 140°F (0°C - 60°C)
IP Rating:	IPX6
Carton Dimensions:	11.25x5.5x5.13" (286x140x130mm)
Master Pack Dimensions:	12x12x11.5" (305x305x292mm)
Weight (pump only):	6.4 lbs (2.9 kg)
UPC Code:	705474223329

### Flow Curve

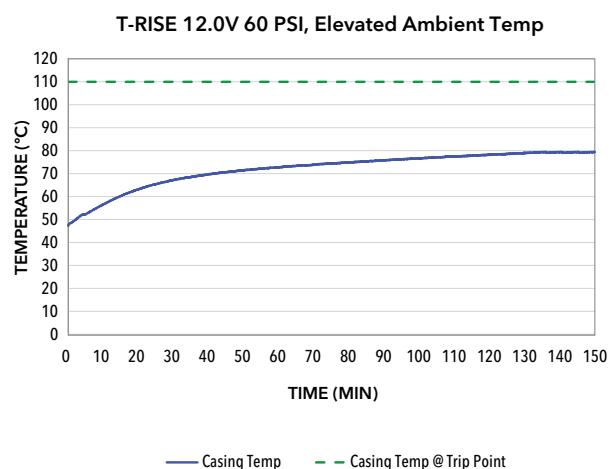


Representative curve of unit operated at nominal voltage.

Performance will vary somewhat unit to unit.

Switch cut-off represents the point on the flowcurve at which the integrated pressure switch will turn off the pump.

### Temperature Rise



Tested in thermal chamber @ elevated ambient temp of 122°F (50°C) @ max run pressure

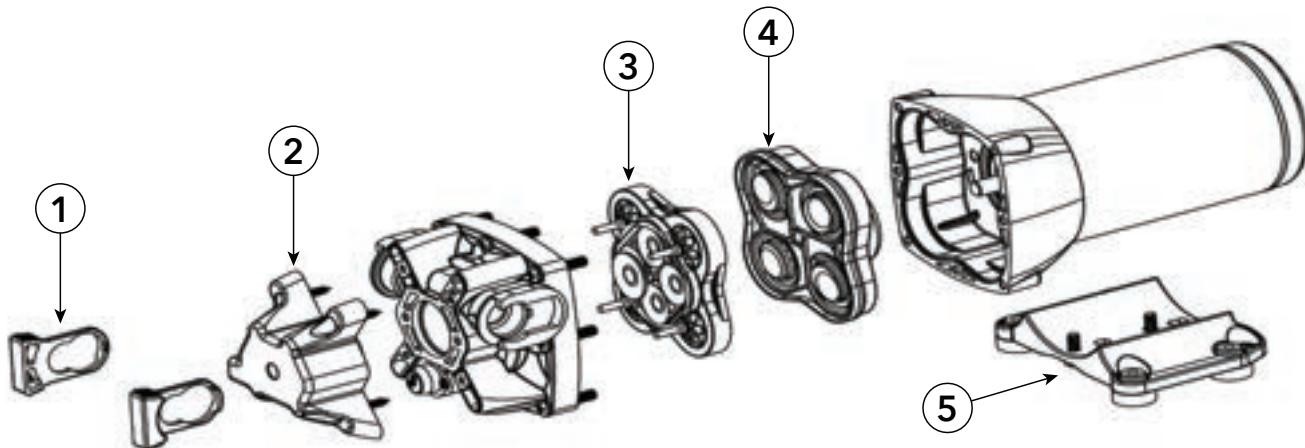
Trip point shown is casing temp at time of TCO trip

If there is concern about the ability of the pump to run continuously for long periods of time then in-application testing is highly recommended.

## Pump Service Kits & Spares:

ITEM	DESCRIPTION
1. Port Clips	2 port clips per kit
2. Switch assembly	Switch assembly w/ wire leads, switch diaphragm, and heat shrink butt connectors
3. Check Valve Assembly	Check valve housing with suction and discharge check valves installed
4. Diaphragm/Drive Assembly	Wobble plate/diaphragm assembly
5. Baseplate/Mounting Feet	Baseplate w/rubber mounting feet installed

## Exploded View:



## Available Flojet Industrial Options

In addition to the unit described in this datasheet Flojet also offers the following configurations (will vary somewhat by region and model type) and options:

### Voltages:

12, 24, & 36 VDC 115 & 230 VAC

### Flowrate Range:

1 - 6 GPM (3.8 - 22.7 LPM)

### Switch Setting Range:

25 - 150 PSI (1.7 - 10.3 Bar)

### Pump Configurations:

Switch; Bypass; Switch & Bypass; Switch, No Bypass; No Switch, No bypass

Santoprene (TPV), Viton, Buna, Nitrile, and other blended materials

EPDM, Viton, Buna, Nitrile and other valve/seal materials

Some models available with transducers or vacuum switches

Various customer options dependent on volumes

## Installation and Operation

For guidance on proper installation and operation of this pump, as well as for any warnings or cautions involving use, please consult the appropriate IOM for the pump. Printed IOM's are supplied with the pumps and are also available online.

## Resources & Contact Information

**IOM:** On website; hard copies with pumps

**Warranty:** Information included in IOM

**Customer Service:** Refer to contact info at our website

**Website:** [www.xylem.com/Flojet](http://www.xylem.com/Flojet)

**Note:** Specifications provided for guidance only. We reserve the right to change specifications without prior notice.



**Xylem Inc. – USA**  
17942 Cowan  
Irvine, CA 92614

**Xylem Inc. – UK**  
Harlow Innovation Park,  
London Road,  
Harlow, Essex, CM17 9LX

**Xylem Inc. – CHINA**  
30/F Tower A, 100 Zunyi Road,  
Shanghai 200051

**Xylem Inc. – HUNGARY KFT**  
2700 Cegléd  
Külso-Kátai út 41

**Xylem Inc. – AUSTRALIA**  
2/2 Capicure Drive  
Eastern Creek, NSW 2766

[www.xylem.com/flojet](http://www.xylem.com/flojet)

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Q451F-1685-2P Rev. A 08/2023