

# a xylem brand

## **VersiJet Series**

Industrial Diaphragm Pump Model: Q452F-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 24V 4.5GPM SW 60PSI BP

VersiJet 24V 17LPM SW 4.1BAR BP

Port fittings: 2 x 3/4" (19mm) straight hosebarb

Strainer: Not included IOM: Included Carton type: Plain box

Master pack qty: 4

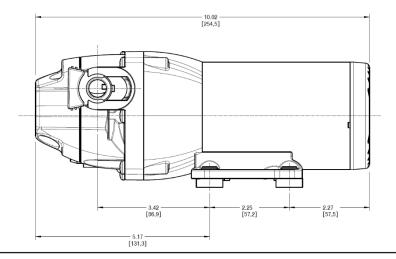


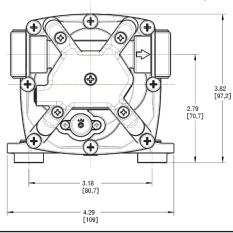


## **Dimensional Drawing**

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:Q452F-168S-2PAftermarket replacement:Q452F-168S-2P

Replaces:04300541R4300580Application:Industrial Fluid Transfer & SprayDesign: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 AluminumCheck Valve Retainer\*:PolypropyleneDiaphragm\*:SantopreneCheck 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: 24 VDC

Voltage Range: 18 VDC - 27.2 VDC

Max Current Draw:8 Amps @ 60 PSI (4.1 BAR)Fuse Size:10 Amps (not included)

Duty Cycle: Intermittent (See heat-rise chart)
Leads: 12" (305mm), 14 AWG (2.5mm^2)

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

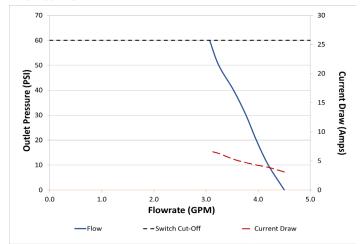
Ambient Temp Range: 32°F - 140°F (0°C - 60°C)

**IP Rating:** IPX6

**Carton Dimensions:** 10x4x4" (254x102x102mm) **Master Pack Dimensions:** 41x32x30" (305x305x292mm)

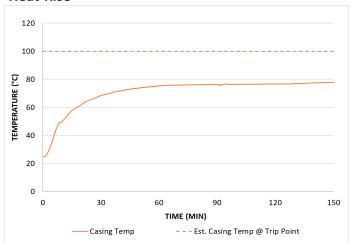
**Weight (pump only):** 6.3 lbs (2.9 kg) **UPC Code:** 705474223862

#### Flowcurve



Representative curve of unit operated at nominal voltage. Performance will vary somewhat unit to unit. Switch cut-off represents the point on the flow curve at which the integrated pressure switch will turn off the pump. Flow rate at zero pressure represents Open Bucket.

#### **Heat-Rise**

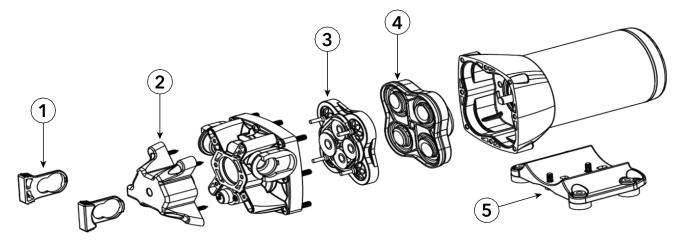


Tested @ elevated ambient temp of 140°F (60°C) @ max run pressure. Est. Casing Temp @ Trip Point may vary (+/-10°C). If there is a concern about the ability of the pump to run continuously for long periods of time, then in-application testing is highly recommended.

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

Warranty: Information included in IOM Website: 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