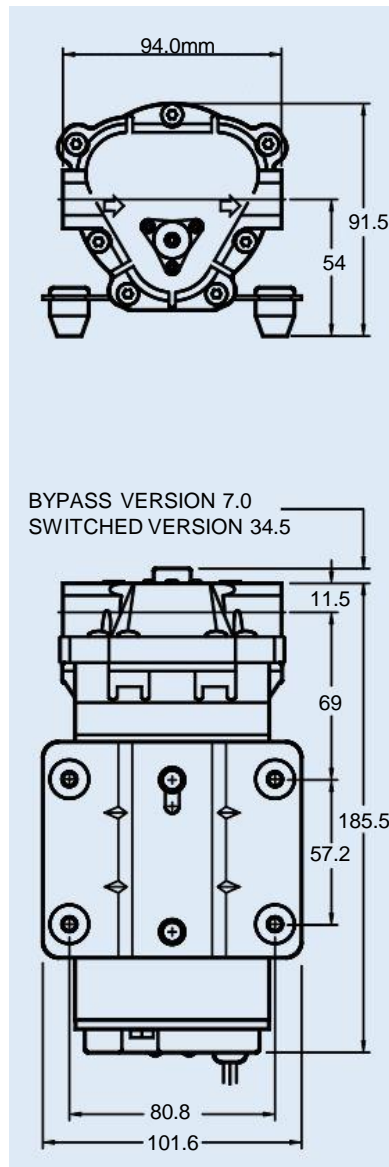


DP4 24v DC Bypass or Switched Diaphragm pumps

July 2022

The DP4 is a 3 chamber Diaphragm pump available with either pressure switch or bypass control. The pump has an open flow output of 3.8 L/min and is available with EPDM or Viton valves.



Specifications:

Fluid connections - 3/8" NPT female.

Motor type - 24v DC permanent magnet fully enclosed non-ventilated.

Connection leads - 14 AWG 300mm long.

Duty cycle - continuous, subject to ambient temperature see note #1.

Design - 3 chamber diaphragm pump self priming to 3 meters, capable of being run dry.

Typical application - Industrial grade water transfer.

Maximum fluid temperature - 77°C

Materials:

Housing: Nylon

Valves: EPDM or Viton.

Diaphragm: Santoprene.

Fasteners: Stainless steel, zinc plated carbon steel.

Weight: 2.8Kg.

Notes.

#1. For user safety, optimal performance and motor life, the motor is fitted with a thermal protector that limits the motor shell to 63°C. This should mean that the unit can run continuously at a maximum current of 3.2A as long as the ambient temperature is below 21°C for ambients higher than this and when running at higher currents (pressure) the duty cycle will need to be reduced and cooling periods introduced (typically 20 mins).

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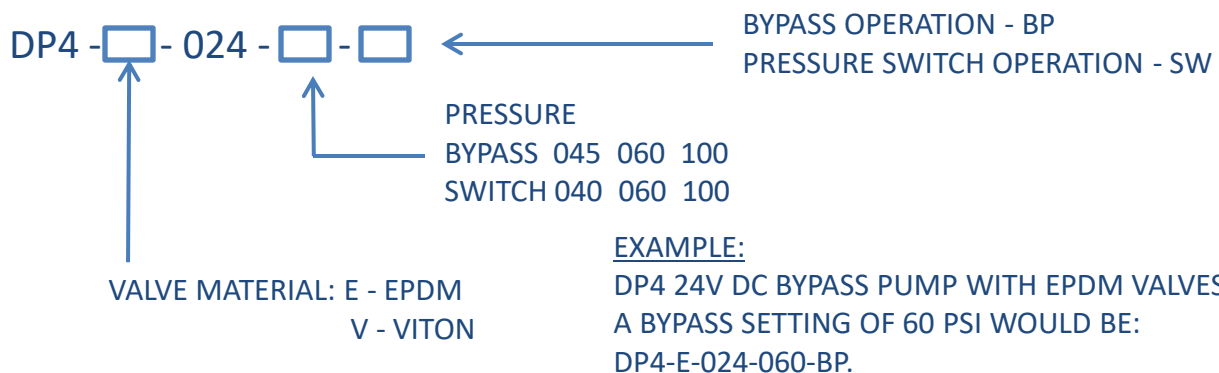
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Performance data.

Discharge pressure (PSI)	Flow rate (L/Min)	Current (Amps)
100	2.34	2.65
90	2.42	2.5
80	2.46	2.34
70	2.5	2.06
60	2.54	2.02
50	2.68	1.88
40	3.14	1.68
30	3.36	1.45
20	3.48	1.21
10	3.67	0.98
0 (open flow)	3.8	0.73

Performance measured with flooded inlet (0 PSI), 70°F (21°C) ambient and water temperature, and voltage controlled at 24 VDC. Positive inlet pressure will increase the discharge pressure by a similar amount for a given flow. Maximum inlet pressure is 60 PSI.

Ordering options.



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