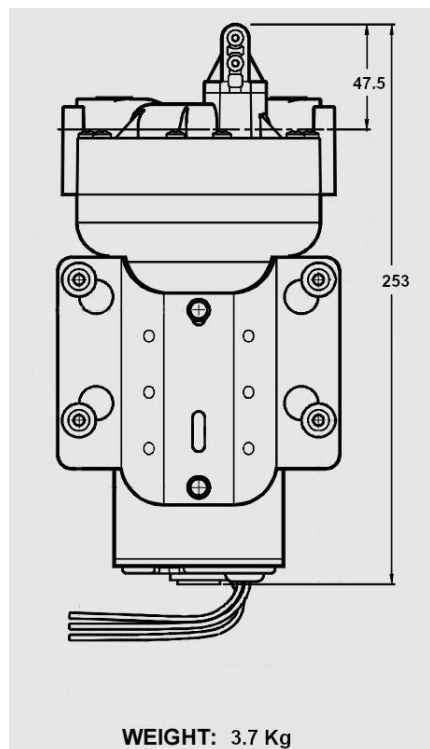
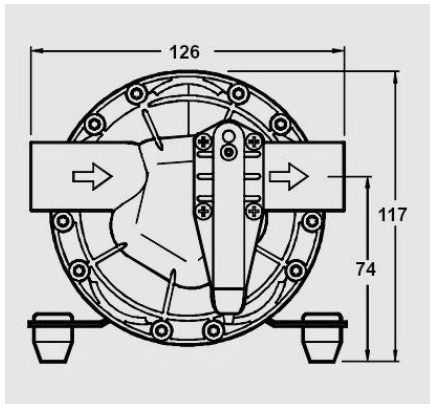


DP20 12v DC Switched Diaphragm pump

April 2023

The DP20 is a 5 chamber Diaphragm pump available with pressure switch control. The pump has an open flow output of 19.5 L/min and is available with EPDM or Viton valves.



Specifications:

Fluid connections - 1/2" NPT female.

Motor type - 12 VDC permanent magnet fully enclosed non-ventilated.

Connection leads - 14 AWG 300mm long.

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

Design - 5 chamber diaphragm pump self priming to 3 meters, capable of being run dry.

Typical application - Industrial grade water transfer.

Maximum fluid temperature - 60°C

Materials:

Housing: Nylon for EPDM valves, PP for Viton.

Valves: EPDM or Viton.

Diaphragm: Santoprene.

Fasteners: Stainless steel, zinc plated carbon steel.

Weight: 2.75Kg.

Notes.

#1. This motor is not equipped with thermal protection. For user safety, optimal performance & maximum motor life the Motor shell temperature must not exceed 66°C. This should mean that the unit can run continuously at a maximum current of 9.0A as long as the ambient and fluid 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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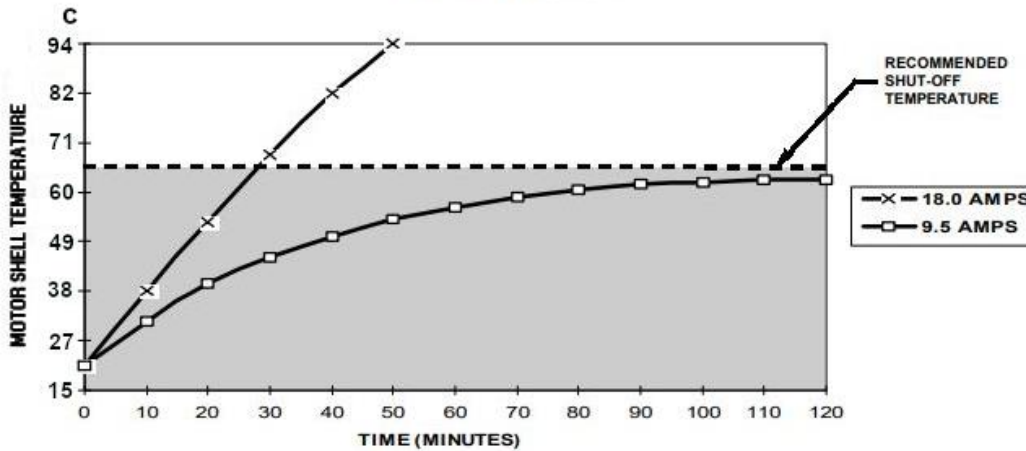
DP20 12v DC Switched Diaphragm pump

Performance data.

Discharge pressure (PSI)	Flow rate (L/Min)	Current (Amps)
70	11.3	18
60	12.1	16.3
50	13.4	14.6
40	14.4	13.0
30	15.5	11.0
20	17.0	9.0
10	18.5	7.0
0 (open flow)	20.0	5.5

Performance measured with flooded inlet (0 PSI), 70°F (21°C) ambient and water temperature, and voltage controlled at 12v DC. Positive inlet pressure will increase the discharge pressure by a similar amount for a given flow. Maximum inlet pressure is 60 PSI.

HEAT RISE



Ordering options.

DP20- - 012 - 070 -SW



VALVE MATERIAL: E - EPDM
V - VITON

EXAMPLE:

DP20 12v DC DEMAND PUMP WITH VITON VALVES AND PRESSURE SWITCH CONTROL AT 70 PSI WOULD BE: DP20-V-230-070-SW.

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