

# PRODUCT DATA SHEET

DAB-DP251M • 701510

## PRODUCT DETAILS

The DAB DP251M pump is a rugged cast iron, twin impeller, self-priming, surface mounted jet pump. By using a separately supplied injector kit the pump can achieve a suction capability of up to 27m

## APPLICATIONS

- Situations where self priming operation is necessary
- Supplying water to domestic installations
- Ideal for use in small-scale agriculture or horticulture
- Pressure boosting, irrigation, wash down or other limited industrial services
- Designed for pumping from tanks, rivers and dams where air bubbles or small particles of sand are present
- Lateral Offset pumping

## FEATURES

- Self priming centrifugal pump with excellent suction capability
- 240V single phase TEFC motor with in-built auto reset thermal overload to prevent pump from damage
- Drive pipe 1" G Suction pipe 1 1/4" G

To protect the pump from excessive cycling and to isolate from the effects of water hammer, adding a pressure tank to the system is highly recommended



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## TECHNICAL DATA

<b>RATED POWER (P2)</b>	1.85kW (2.5hp)
<b>MAX. FLOW [LPM]</b>	72 LPM
<b>MAX. HEAD [M]</b>	70m
<b>MAX. PRESSURE RATING</b>	8 bar
<b>FLUID TEMP RANGE</b>	0 - 35 deg C
<b>MAX. AMBIENT TEMP</b>	40 deg C
<b>PUMP BODY</b>	GJL 200 Cast Iron
<b>IMPELLER</b>	Glass reinforced Noryl
<b>JET, VENTURI, DIFFUSER</b>	Glass reinforced Noryl
<b>MECHANICAL SEAL</b>	Carbon Ceramic Nitrile
<b>O RINGS</b>	Nitrile

<b>RATED VOLTAGE (V)</b>	1~ 220 - 240V 50 hz
<b>RATED CURRENT (A)</b>	8.3A
<b>RATED SPEED (RPM)</b>	2800 - 2 pole
<b>IP RATING</b>	I.P. 44
<b>SUCTION CONNECTION</b>	1 1/4" G (BSP)
<b>DISCHARGE CONNECTION</b>	1" G (BSP)
<b>AUTOMATIC OPERATION</b>	No - bare pump only
<b>MOTOR PROTECTION</b>	Auto re-setting thermal overload
<b>CAPACITOR</b>	40uF 450V +/- 5%
<b>CARTON DIMENSIONS</b>	522mm L x 246mm W x 307mm H
<b>GROSS WEIGHT (KG)</b>	32.5kg

## PERFORMANCE

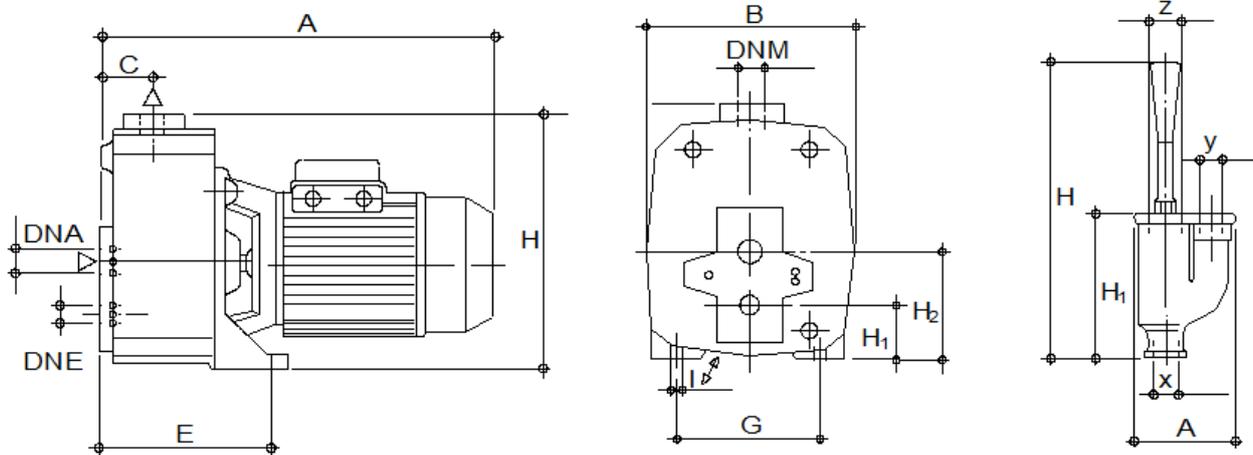
HYDRAULIC DATA (n ≈ 2800 1/min.)											
TYPE PUMP	TYPE EJECTOR	DEEP SUCTION	Discharge pressure in bar								
			3	3.5	4	4.5	5	5.5	6	6.5	7
Capacity table in l/h											
DP 251 M - T	E 20	9	4300	3600	2900	2180	1400	640	-	-	-
		12	3750	3140	2540	1700	940	-	-	-	-
		15	-	2780	2040	1300	500	-	-	-	-
		18	-	2340	1610	820	-	-	-	-	-
	E 25	15	-	2920	2400	1900	1400	950	570	-	-
		18	-	2600	2110	1620	1150	720	360	-	-
		21	-	2350	1850	1350	900	510	-	-	-
		24	-	2050	1550	1080	660	300	-	-	-
	E 30	21	-	-	1710	1480	1220	980	770	590	420
		24	-	-	1580	1330	1080	850	670	490	330
		27	-	-	1440	1200	950	750	560	400	250

Calculating offset application suction side friction losses:

In offset applications friction losses in pipework between the water source and the pump need to be added to the depth to water to provide an 'apparent depth to water' value.

Add 6% of the suction side distance to the depth of water value and use the combined value to select the correct injector  
As a general suggestion use 50mm suction and 40mm pressure 'drive' pipe sizes

## DIMENSIONS



MODEL	A	B	C	DNA GAS	DNE GAS	DNM GAS	E	G	H	H1	H2	I ∅	x	y	z
DAB-DP251MP	388	210	50	1" ¼	1"	1"	197	145	255	53	108	11	1"G	1"G	1"¼ G

## WARRANTY / CERTIFICATIONS

