

Alcon Davey High Pressure Pumps



Alcon Davey high pressure pumps are perfect for fire fighting, tank filling, sheep jetting, crop spraying and irrigation as well as for use with clean water and fuel oils.

These self priming centrifugal pumps with high performance and pressure are manufactured in marine grade aluminium with integral non-return valve to aid priming and mechanical shaft seal. They are available with single impeller for less pressure and more flow; or twin impeller for more pressure and less flow. Both options are available with diesel or petrol engine options. Chalwyn valve and spark arrester can be fitted as an optional extra on diesel engines.



Alcon Davey High Pressure Pumps

	SINGLE IMPELLER		TWIN IMPELLER	
	PETROL ENGINE	DIESEL ENGINE	PETROL ENGINE	DIESEL ENGINE
HILTA REF	P778-104	P778-112 recoil P778-114 elec start	P778-106	P778-113 recoil P778-115 elec start
ENGINE TYPE	Honda GX160 4.8bhp 3.6kW at 3000rpm	Hatz 1B20 4.8bhp 3.1kW at 3000rpm	Honda GX160 4.8bhp 3.6kW at 3000rpm	Hatz 1B20 4.8bhp 3.1kW at 3000rpm
CHALWYN VALVE	-	✓	-	✓
SPARK ARRESTER	-	✓	-	✓
FUEL TANK CAPACITY	6.3 litres	4.3 litres	6.3 litres	4.3 litres
RUNNING TIME (Hours)	2.8 hours full load	2.5 hours full load	2.8 hours full load	2.5 hours full load
INLET CONNECTIONS	1 1/2" bsp			
OUTLET CONNECTIONS	3 way - 1x1 1/2" BSP 2x1" BSP			
MAX OUTPUT	450 litres per min (6000 gal / hr)		250 litres per min (3300 gal / hr)	
MAX LIFT	8 metres			
TOTAL HEAD	56 metres		82 metres	
MAX SOLID	only very fine non abrasive solids			
MOUNTING	tubular steel guard / carryframe with mounting feet			
DIMENSIONS (LxWxH)mm	560 x 410 x 470	610 x 460 x 490	560 x 410 x 470	610 x 460 x 490
WEIGHT	24kg	53kg	26kg	56kg

All hoses and fittings available for all pumps

Specifications are subject to change without prior notice

Applications



Alcon Pump specification and application chart

Alcon specification chart

HILTA REF	MARK IIA	MARK III	2" HEAVY DUTY	3" HEAVY DUTY	DAVEY HIGH PRESSURE PUMP SERIES 778	
SERIES	SERIES 781	SERIES 710	SERIES 713	(CHOPPER) SERIES 716	SINGLE	TWIN
POWER - PETROL & DIESEL	✓	✓	✗	✗	✓	✓
CARRYFRAME	✓	✓	✗	✗	✓	✓
NON CARRYFRAME	✗	✗	✓	✗	✗	✗
MAX OUTPUT L/MIN	454	454	757	1285	450	250
MAX OUTPUT GALS/HR	6000	6000	10000	17000	5940	3300
MAX DRY SUCTION LIFT	7.6 metres	7.6 metres	6 metres	6 metres	5 metres	8 metres
TOTAL HEAD	31 metres	31 metres	29 metres	55 metres	56 metres	82 metres
MAX SOLIDS	10mm	10mm	20mm	20mm	finest	finest
WEIGHT (Kg)	cast iron	aluminium	cast iron	cast iron	aluminium	aluminium
PETROL	51	41	✗	✗	36	36
DIESEL	✗	45	✗	✗	50	50

POWER UNIT ELECTRIC MOTOR	✓	✓	✓	✓	✗	✗
CARRYFRAME	✓	✓	✗	✗	✗	✗
NON CARRYFRAME	✗	✗	✓	✓	✗	✗
MAX OUTPUT L/MIN	439	439	757	1275	✗	✗
MAX OUTPUT GALS/HR	5800	5800	10000	17000	✗	✗
MAX DRY SUCTION LIFT	4.5 metres	4.5 metres	6 metres	6 metres	✗	✗
TOTAL HEAD	31 metres	31 metres	29 metres	55 metres	✗	✗
MAX SOLIDS	10mm	10mm	20mm	20mm	✗	✗

Alcon Pump application chart

APPLICATION/ HILTA REF	MARK IIA	MARK III	2" HEAVY DUTY	3" HEAVY DUTY	DAVEY HIGH PRESSURE
	SERIES 781	SERIES 710	SERIES 713	(CHOPPER) SERIES 716	PUMP SERIES 778
CAST IRON/ALUMINIUM	cast iron	aluminium	cast iron	cast iron	aluminium
CLEAN WATER	✓	✓	✓	✓	✓
DIRTY WATER	✓	✓	✓	✓	✗
MUDDY WATER	✓	✓	✓	✓	✗
SLURRY	✗	✗	✗	✓ (chopper only)	✗
SCREENED SEWAGE	✗	✗	✗	✓ (chopper only)	✗
FUEL OILS (VITON SEALS)	✗	✓	✗	✗	✓

POWER SOURCE					
PETROL	✓	✓	✗	✗	✓
DIESEL	✗	✓	✗	✗	✓
ELECTRIC MOTOR	✓	✓	✓	✓	✗
ELECTRIC START	✗	✓ (diesel only)	✗	✗	✓ (diesel only)
BARESHAF	✓	✓	✓	✓	✗
PTO	✗	✗	✓	✓	✗
CHALWYN VALVE	✗	✓ (diesel only)	✗	✗	✓ (diesel only)
SPARK ARRESTOR	✗	✓ (diesel only)	✗	✗	✓ (diesel only)