

SUBMERSIBLE DEWATERING PUMPS

Model Numbers: DCS40A & DCS40M

DEPEND ON
DAVEY

WATER PRODUCTS



SUMP PUMPS

PRODUCT DESCRIPTION

Stainless steel shell, double cased submersible dewatering sump pump.

APPLICATIONS

- Dirty water pumping
- Sump emptying
- Septic effluent water disposal
- Pumping of waste water with small soft solids in suspension
- Pumping in partially submerged applications

"A" suffix models equipped with preset length float switch for automatic operation.

FEATURES & BENEFITS

Open impeller, semi-vortex, centrifugal design

- Able to pump small soft solids in suspension
- Less susceptible to blockage

Double mechanical shaft seal in oil bath with hard faced silicon carbide / ceramic seal on pump side

- Added motor protection
- Long service life

Sand slinger lip seal

- Added protection
- Long service life

Corrosive resistant 304 stainless steel outer case and strainer

- Long service life
- Attractive, lasting appearance

Double case with full discharge flow past internal motor shell

- Able to operate in partially submerged installations
- Better motor cooling for longer life

Automatic resetting thermal overload

- Protected against overloading

In-built automatic thermal overload

- Protects the motor in the event of blockage or voltage supply problems

HO7RNF oil resistant leads, 10 metres long with 3 pin power plug

- Easy to connect to power supply
- Longer life in dirty water

OPERATING LIMITS

Capacities to	240lpm
Max. total head	12m
Max. submergence	10m
Max. operating temperature	50°C
Outlet size	2" BSP(F)

Suitable Fluids:

Sewage or "grey water" of neutral pH containing up to 10% of small soft organic solids (<10mm OD). Some accelerated wear should be expected while pumping hard solids in suspension.

TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

PART	MATERIAL
Impeller	Cast iron
Suction strainer	304 stainless steel
Outer casing	304 stainless steel
Pump casing	Cast iron
Shaft seal - pump side	Silicon carbide/ceramic
Shaft seal - motor side	Carbon/ceramic
	Mechanical seals in captive oil bath with oil seal
Shaft seal elastomer	Nitrile rubber
Pump shaft	304 stainless steel
Orings	Nitrile rubber
Motor shell	304 stainless steel
Handle	304 stainless steel
Fasteners	304 stainless steel
Float & power supply leads	HO7RN-F oil resistant

ELECTRICAL DATA

Electrical lead	HO7RNF x 10m length
Phase	Single
Supply voltage / Hz	220-240 / 50Hz
Speed	2 pole, 2850rpm
Full load current	3.0A
kW (nameplate)	0.4kW
Insulation class	Class F
IP rating	X8
Starting	P.S.C.

INSTALLATION & PRIMING

Use a rope to position and retrieve the pump. Do not lower or retrieve the pump using the power lead as this may damage the cable entry seals, causing water leaks and unsafe operation.

Don't use this product for recirculating or filtering swimming pools, spas, etc. While these pumps are built to high safety standards, they are not approved for installations where people will be in the water while they are operating.

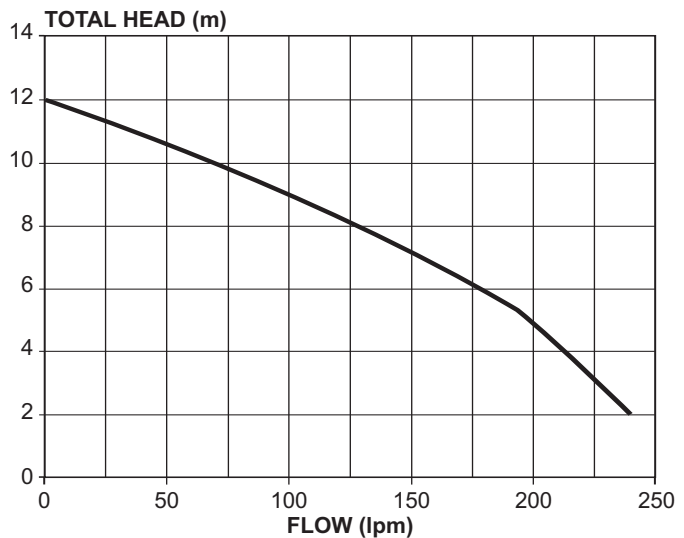
Don't pump abrasive materials. Sand and grit in the water being pumped will accelerate wear, causing shortened pump life.

Keep your pump clean, particularly in situations where lint, hair or fibrous materials may get bound around the pump shaft. Regular inspection and cleaning will extend pump life.

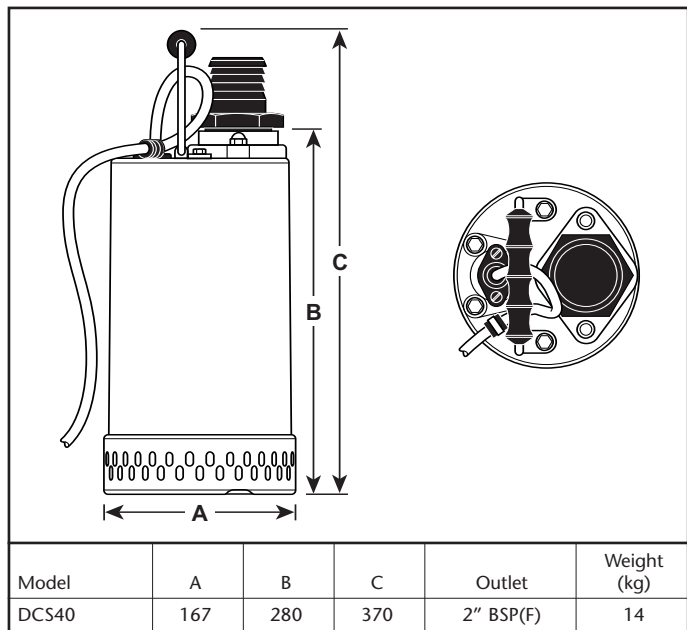
Make room for the float switch to operate. Automatic models have a float switch to turn them on when the water level rises and turn them off again when it has been pumped down to the safe operating level of the pump. If the float switch is not free to rise and fall, correct pump operation may not be possible.

Don't run your pump dry. Non-automatic models must be switched off manually or by way of an external float/level switch when the water level is reduced to the top of the pump housing.

HYDRAULIC PERFORMANCE



DIMENSIONS



All dimensions in mm unless otherwise stated.

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This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product Installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.
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