



# Chicago Pneumatic



CP 0077

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Power	kW	-
Weight	kg	69
Min opening needed	mm	584x268
Min water depth	mm	-
Max suction lift	m	6,1
Max head	m	53
Air consumption	l/s	40
Air inlet	inch	3/4" NPT
Air outlet	inch	1" NPT
Discharge inlet	inch	3" BSP
Discharge outlet	inch	2½" NPT
Max solid content		15%
Sound power level guaranteed (2000/14/EC) <sup>1)</sup>	dB(A)	111
Sound pressure level (ISO 11203) <sup>1)</sup>	dB(A)	98
Sound power uncertainty value K	dB(A)	2,5
Recommended air supply hose size	mm	25
Part number		T024005

(at 6 bar)

<sup>1)</sup> Important: Full details of measurement are available in the Safety and Operating Instructions of the product (part no 9800 0556 90). It can be found on [www.cpprintshop.com](http://www.cpprintshop.com)

Auxiliary equipment		Part number
Inlet hose nipple	3" unthreaded x 2½" BSP	F027762
Outlet nipple	2½" NPT (both ends)	R146385
Outlet nipple	2½" NPT (street elbow)	R146383

## Applications

Chicago Pneumatic's sludge pumps are suitable for pumping sea water and certain corrosive chemicals as well as water from trenches, ditches, manholes, etc. They can be used in industrial sumps and excavations: wet drilling applications where the pumped liquid contains rock fragments or other solids.

The sludge pump can handle liquids containing up to 15 percent solids and including particles up to 1" (25 mm) in size.

The pump should not be used to pump flammable liquids.

## General information

The sludge pump operates by filling the pump chamber with liquid by means of a venturi arrangement, where compressed air is forced through a restriction in the top part of the pump head, creating an under pressure within the pump chamber. The pumped liquid is then sucked into the pump chamber through an inlet valve. When the chamber is full, this triggers a valve, pressurizing the filled pump chamber. The contents of the chamber are then pressed out through the outlet port.

The sludge pump may be operated partly submerged. It can also be used for limited suction applications, since it doesn't need to be immersed in the liquid.

## Key features

- Has no motor or diaphragm to wear out
- Operates on venturi/ejector principle
- Exhaust muffler reduces noise level
- Extremely durable
- No damage if running without load
- Long life/low maintenance
- Integral oiler provides continuous lubrication
- Cast iron housing

## Users

Shaft sinkers, Soft tunneling contractors, Mines, Hydro-electric contractors, Site investigation companies, Utilities, Local authorities, Industries (for sump pumping), Oil companies, Shipping companies, Shipyards, Water boards, Chemical companies

High-performance products. Designed for you!

# Sludge Pump