

READER

GROUT & EQUIPMENT

Grout PUMPS

Grout Pumps

Pump a wide variety of materials including cement, bentonite, PFA, sand and chemicals with Reader high performance pumps.

■ D2/8
■ S3/8
■ D3/8
■ D4/8

■ D7/4
■ D7/10
■ S7/10
■ ER100



Constructional and Operational Features

- A choice is offered of diaphragm and piston pumps
- Economical diaphragm pumps have few moving parts and are simple to maintain and operate
- The wide range of piston pumps offers high grout outputs and high pressure performance
- Grout outputs of up to 200 litres per minute
- Grout pressure of up to 1500 lb/in²
- A choice is available of single or double acting pumps
- All pumps are designed and manufactured to provide long trouble-free life, being made from heavy-duty cast iron and steel and are mounted on a rigid steel box type chassis
- All pumps are fitted with heavy-duty steel ball type valves
- All pumps are fitted with a bourdon tube-type pressure gauge fitted above an oil filled chamber designed to record grout pressure without fluid acting directly on the gauge
- See separate brochure for details of mixers, colloidal mixers, accessories, power packs and mobile grouting units

PLUMPS

Grout Pumps

Single and Double Piston Pumps

- D2/8
- S3/8
- D3/8
- D4/8

Features

- Heavy-duty pneumatic cylinder drive.
- Automatic lubrication of air cylinders by means of airline drip feed, used in conjunction with an airline filter which traps moisture and foreign matter within the air supply.
- Totally enclosed cylinder ends and pistons.

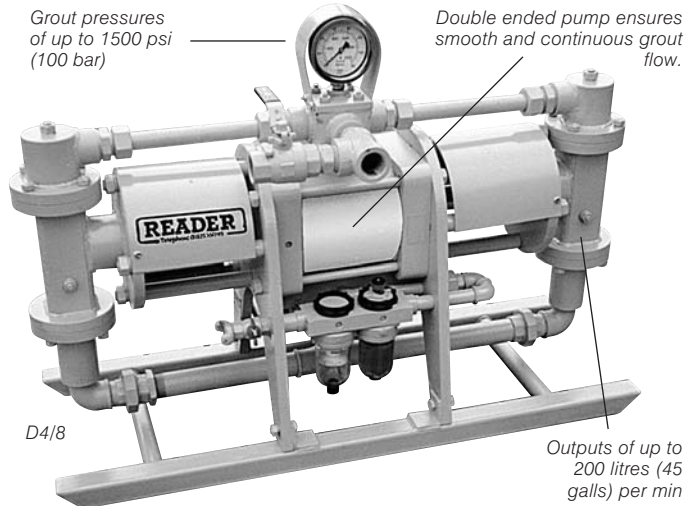
Construction:

- All models supported by a steel frame, forming an extremely rigid box section - the complete unit being mounted on a steel skid chassis.

Connections:

- Inlet diameter 60 mm o.d. plain
- Outlet and return 1 1/4" BSP connector for 38 mm hose.

Reader offers a wide range of high-performance pumps, which provide grout outputs of up to 200 litres (45 gallons) per minute and grout pressures of up to 1500 psi (100 bar) - and will, therefore, meet the most demanding operational requirements across a wide range of applications. The D2/8, D3/8 and D4/8 models are all double cylinder air-operated piston pumps which are powered by heavy-duty double-ended pneumatic cylinders, which, in conjunction with ball-type non-return valves, produce a continuous output of grout.

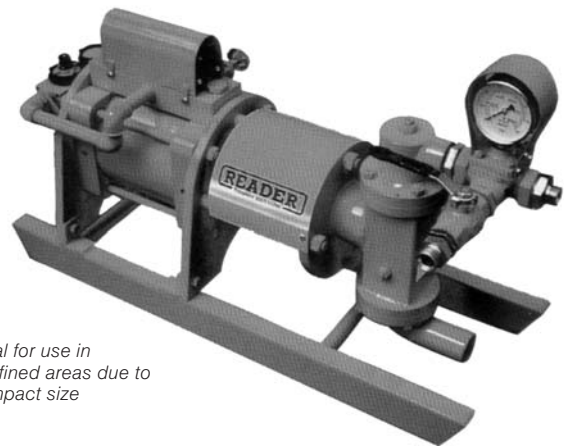


D4/8

Outputs of up to 200 litres (45 gallons) per min

The S3/8 is a single cylinder air-operated pump, powered by a heavy-duty single pneumatic cylinder. Owing to its comparatively small size and compact

design the S3/8 is ideal for use in areas of confined working space, such as tunnelling and sewer refurbishment.



Ideal for use in confined areas due to compact size

S3/8

Specification and Purchase Details for all Piston Pumps

Model	Quote No.	Dimensions (length x width x height)	Maximum Output	Power required	Weight
D2/8	06-012	1170 x 430 x 875	50 litres (11 galls)/min or 1500 psi (100 bar)	188 cfm (89 dm ³ /s) @ 100 psi (6.9 bar)	200 kg (440 lb)
S3/8	06-014	1060 x 385 x 660	55 litres (12.5 galls)/min or 650 psi (45 bar)	188 cfm (89 dm ³ /s) @ 100 psi (6.9 bar)	140 kg (308 lb)
D3/8	06-016	1170 x 430 x 875	110 litres (25 galls)/min or 650 psi (45 bar)	188 cfm (89 dm ³ /s) @ 100 psi (6.9 bar)	200 kg (440 lb)
D4/8	06-018	1310 x 460 x 875	200 litres (45 galls)/min or 350 psi (24 bar)	188 cfm (89 dm ³ /s) @ 100 psi (6.9 bar)	200 kg (440 lb)
06-012/90	06-014/90	06-016/90	06-018/90	Recommended spares kit comprising of valve seats, "O" rings, piston seals, air cylinder seals and pilot valve diaphragm, pressure gauge and gauge diaphragm	

Single and Double Diaphragm Pumps

Features

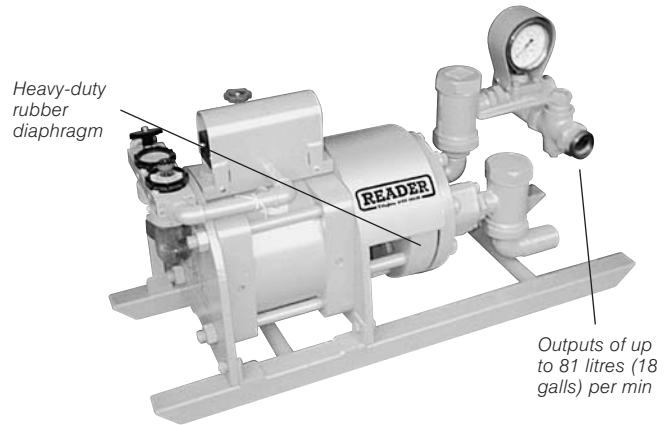
- Heavy-duty pneumatic cylinder drive. Automatic lubrication by means of an air-line drip feed, used in conjunction with an air line filter, traps moisture and foreign matter within the air supply.
- The speed of the unit can be adjusted by means of an air control valve.

Connections:

- Inlet diameter 60 mm o.d. plain.
- Outlet and return 1 1/4" BSP connector for 38 mm hose.

S7/10 Pneumatic Grout Pump

The S7/10 is an air-operated single diaphragm grout pump. The unit is powered by a single ended pneumatic cylinder, which deflects a heavy-duty rubber diaphragm. Routine maintenance and general servicing of the unit are extremely simple and can be carried out under site conditions. The small size of the unit makes it ideal for use in areas of confined working space, i.e. tunnelling and sewer refurbishment. The high quality diaphragm and castings ensure long life.



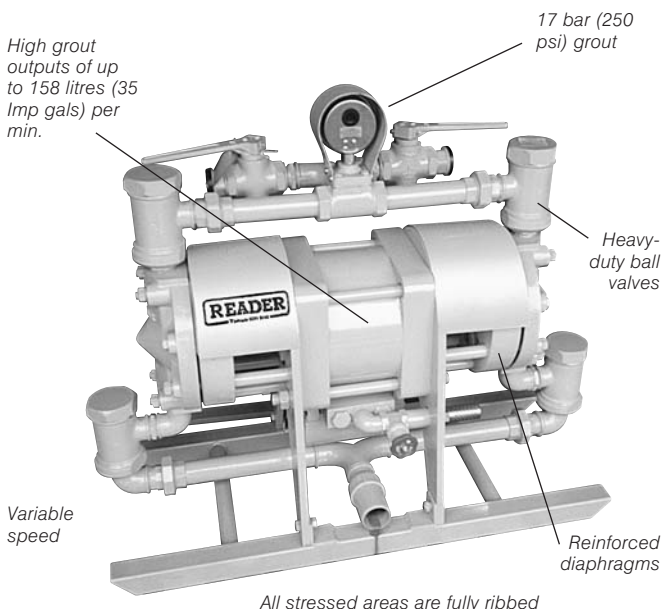
Specification and Purchase Details S7/10

Dimensions	550 x 410 x 1000 mm (height x width x depth)
Max. pump output	81 litres (18 Imperial gallons) per min.
Max. pump pressure	17 bar (250 psi)
Required power	0.06 m ³ /s (126 cfm) @ 7 bar (100 psi)
Weight	158 kg (348 lb)
06-005	S7/10 Pneumatic grout pump
06-005/90	Recommended spares kit, comprising diaphragm, pressure gauge, gauge diaphragm, cylinder spares kit.

D7/10 Pneumatic Grout Pump

The D7/10 is an air operated double diaphragm grout pump. The unit is powered by a double ended pneumatic cylinder which alternately deflects two heavy-duty rubber diaphragms. This, in conjunction with ball type valves, produces continuous outputs of up to 158 litres (35 Imperial gallons) per minute. The D7/10 is suitable for

pumping all customary types of grout mixtures containing abrasive materials including sand and PFA. Absence of any lever action, in favour of a purely axial movement, eliminates any eccentric forces and virtually all the energy produced can be utilised in the pumping action.



Specification and Purchase Details D7/10

Dimensions	880 x 430 x 1025 mm (height x width x depth)
Max. pump output	158 litres (35 Imperial gallons) per min.
Max. pump pressure	17 bar (250 psi)
Required power	0.06 m ³ /s (126 cfm) @ 7 bar (100 psi)
Weight	230 kg (507 lb)
06-008	D7/10 Pneumatic grout pump
06-008/90	Recommended spares kit, comprising 2 diaphragms, pressure gauge, gauge diaphragm, cylinder spares kit.

Features:

- A double acting hydraulic cylinder is fitted with special seals for aggressive hydraulic fluids. Mechanical valves determine the direction of flow and maximum pressure of the hydraulic fluid.
- The pumping speed of the unit may be adjusted by means of a flow control fitted to the power pack.

Connections:

- Inlet diameter 60 mm o.d. plain
- Outlet and return 1 1/4" BSP connector for 38 mm hose.

Features:

- The possibility of hydraulic jacking is reduced as the operator has direct and immediate control of the output pressure.

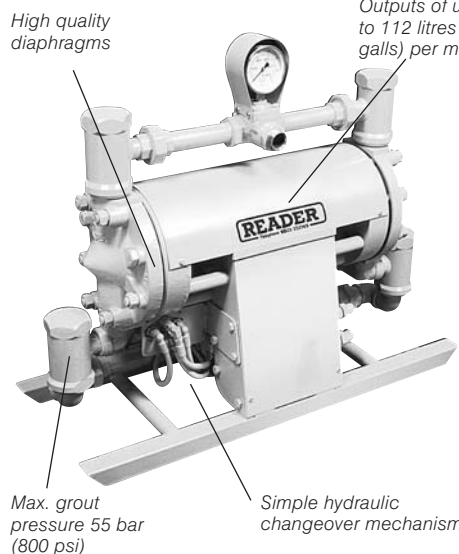
Construction:

- Steel skid chassis for rough site use incorporating a toe and heel support for the operator. The pump is secured by U-bolts allowing easy dismantling for transport.

Connections:

- Inlet diameter 60mm o.d. plain
- Outlet and return 1 1/4" BSP connector for 38 mm hose.
- The ER100 can be coupled to either the 20H hand-operated mixer or the 40A mixer.

D7/4 Hydraulic Grout Pump



The D7/4 is a high pressure, double diaphragm grout pump designed for use with a hydraulic power pack. It will operate on 60/40 hydraulic emulsions as well as standard hydraulic oils. It is powered by a double-acting hydraulic cylinder producing a continuous grout output.

Specification and Purchase Details D7/4

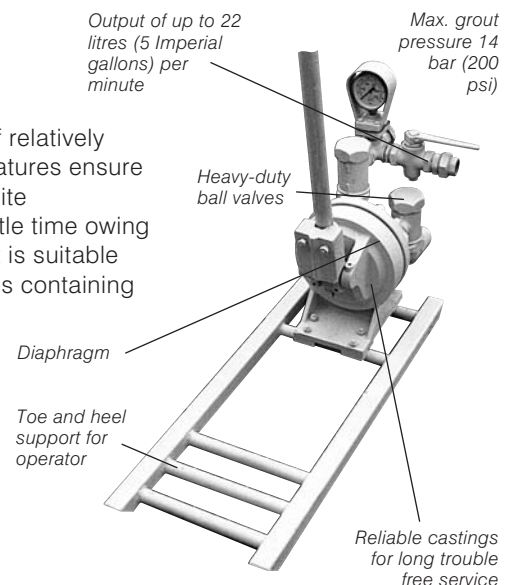
Dimensions	740 x 430 x 1270 mm (height x width x depth)
Max. pump output	112 litres (25 Imperial gallons) per min.
Max. pump pressure	55 bar (800 psi)
Required power	Hydraulic power pack producing an oil flow of 60 litres (13 galls/ min.) (max. 68 litres) (15 galls/ min.) with a max. hydraulic pressure of 170 bar (2500 psi)
Weight	260 kg (573 lb)
06-010	D7/4 Hydraulic grout pump
06-010/90	Recommended spares kit, comprising diaphragms, diaphragm protectors (inner and outer), hydraulic cylinder seal kit, pressure gauge and gauge diaphragm

ER 100 Hand-operated Grout Pump

The ER 100 is a hand-operated grout pump of relatively lightweight and simple construction. These features ensure long trouble-free performance under varying site conditions. Cleaning and maintenance take little time owing to easily accessible and reliable mechanics. It is suitable for pumping all customary types of grout mixes containing abrasive materials including sand and PFA.

Specification and Purchase Details ER100

Dimensions	1480 x 430 x 1240 mm (height x width x depth)
Max. pump output	22 litres (5 Imperial gallons)
Max. pump pressure	14 bar (200 psi)
06-001	Hand-operated grout pump
Weight	116 kg (255 lb)
06-001/9	Recommended spares kit comprising diaphragm, pressure gauge, gauge diaphragm, yoke pin and grid pin.



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