

TECHNICAL INFORMATION

ACCESSORIES

PRODUCT NAME

High Pressure 1:1 Ratio Plural Component Pump

MANUFACTURER

De Neef Construction Chemicals, Inc.
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PRODUCT DESCRIPTION

A 2-component pump enhanced with a separate flushing pump for cleaning purposes. The pump is equipped with one air motor driving both pistons thus avoiding any mixing ratio errors. The maximum outlet pressure is 3000 psi.

APPROPRIATE APPLICATIONS

Especially designed for acrylate and acrylic gels, the pump also pumps 1- and 2-Component Polyurethane resins and organo-mineral resins.

ADVANTAGES

- Ideal for the processing of acrylate and acrylic gels, even those with very short gel times.
- Filters at the end of the suction hoses prevent blockage.
- Pump is made of stainless steel.
- Pump is mounted on ½" steel plate for safety and durability.
- All hoses are in Teflon lined – non-static.
- No mixing errors possible due to 1:1 ratio, with one air motor.

PACKAGING

The assembly and compression head pump is shipped with a 25 ft hose in a wooden crate.

TECHNICAL DATA

Pressure Ratio Motor	30:1
Max Working Pressure	3000 psi
Mixing Ratio	1:1
Max free flow delivery	3.2 Gal/minute
Max air consumption	16 cfm @ 100 psi
Air pressure operation range	45 – 3000 psi
Length of high pressure hose assembly	25 ft.
Compression head	3-link mechanics
Pump weight	75 lbs.



PROCEDURES

Application

The pumping of the materials (A and B components) is implemented by means of a compressed air motor, which drives the pistons. This results in a pumping ratio of 1:1 to ensure mixing errors do not occur.

In the case of acrylate gel injections, use the external flushing pump (for the pumping of water as the flushing agent) to clean the compression head, the static mixer and the packer. Acrylate gels with very short gel times (20 – 60 sec) can be processed without problems.

Before the first start-up of the pump, the information below must be reviewed carefully.

1. Fill lubricant oil into the oil sumps on the cylinder of both piston-housing units, so that the pistons are covered in a lubricating oil film.
2. Before initial operation of the pump, insert suction hose with filter into a container of the appropriate wash agent.
3. Do not insert suction ends of the A & B hoses into the resin containers before calibration of the pump in a non-load operational mode.
4. Connect the compressed air line to the pump and open the ball valve for airflow.
5. Adjust the inlet pressure at the automatic controller for the airline. The pressure can be read on the pressure gauge. The flushing pump works as long as there is positive pressure inside the pump.

Note: When Using Polyurethane chemicals, the pump must be completely flushed with DeNeef's Washing Agent.

6. After the start of the pump, open the 2 parallel A & B ball valves on the compression head.
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8. To start injection of the material, place both suction hoses for the liquid components into the 2 resin canisters.
9. Close both ball valves after injection of the resin and open the single ball valve for the pumping of the flushing liquid and briefly flush out the compression head, the static mixer and the packer.
10. On completion of injection operations, the pump must be thoroughly flushed with the recommended wash agent.
Flushing of the pump on completion of the injection operations must be carried out thoroughly, to ensure that parts, prone to wear, such as seal packings and O-rings remain functional for a long period.

STORAGE & HANDLING

To ensure proper use and a long working life the pump must be cleaned and drained thoroughly prior to storage.

Store in a clean dry environment.

PRECAUTIONS

The operator must know how the equipment works and understand clearly the dangers of pumping pressurized liquid. Before attempting to clean or service the equipment, close the compressed air input and release the pressure contained inside the pump and the pipes connected to it. When you use the pump after a long period of inactivity, make sure that all the parts subject to pressure are in good condition. For replacement, use original spare parts. Only authorized and responsible personnel must operate the unit.

SAFETY INFORMATION

In the event of an EMERGENCY call:
CHEM-TREC 800-424-9300.

WARRANTY INFORMATION

De Neef Construction Chemicals, Inc. products are warranted under the policy set forth under the WARRANTY section of the De Neef Construction Chemicals Inc., product catalog. Warranty information can also be obtained via the De Neef Construction Chemicals Inc. website at www.deneef.com, or by calling 713-896-0123 or toll free at 1-800-732-0166.

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