

# MC-I 510

## High-pressure piston pump for injection of resins

### Product Properties

- Pneumatically driven piston pump
- High pressure ratio
- Easily adjustable
- Pressure limitation
- Self-priming
- Compact construction

### Areas of Application

- Delivery of reactive resins and similar liquids for injection

### Application

#### System Description

The MC-I 510 is an airlessly operating, pneumatically driven injection-pump. With a maximum output pressure of 264 bar, the MC-I 510 fulfils the specifications of a high-pressure injection pump. The MC-I 510 is mounted on a carriage with integrated supply container. It is powered by compressed air, enabling use in explosive areas.

Equipment includes with a 7.5 m high-pressure hose, an injection pistol and an injection nozzle.

Due to its handy design the MC-I 510 can be used even in hardly accessible areas on site or on scaffolds.

#### Operation

Check the meter reading of the release agent before starting the pump. This can be checked at the filler connected to the high-pressure head of the material pump. If necessary fill up the release agent to the top. Every pump comes with release agent.

Connect the MC-I 510 to an air pipe with sufficient capacity. Open the compressed air regulator which should be closed completely before work is started slowly to the point where the pump starts working.

Keep opening the regulator slowly until the desired injection pressure is reached. The injection pressure is calculated by multiplying the value shown on the manometer by 33.

The injection pressure within the structural part is always lower, as it is decreased by the delivery loss. Also take into account pressure loss at the packer valve.

#### Cleaning

The pump must be cleaned thoroughly right after use or at least within the pot life of the injection material. Within the same work step partially cured injection resin can be carried out with fresh resin. After the injection is completed the pump must be cleaned with a thinner that corresponds with the injection material. After the reactive resin has been removed by the thinner, pump thinner through the system to dissolve residual adhesions. Fill the pump with oil after cleaning. The oil reduces the entry of moisture into the pump and lubricates all movable parts of the pump.

#### Regular inspections and maintenance plan

Reference notes for inspections, preventive maintenance and exchanging wear parts given in the handbook.



## Technical Data for MC-I 510

	Unit	Volume	Comments
Air requirement (min.)	l/min	230	
Air inlet pressure (max.)	bar	8	
Transmission ratio		1 : 33	
Operating pressure (max.)	bar	264	
Discharge flow (max.)	l/min	approx. 3	
Volume of the integrated supply container	l	1.5	
Max. material temperature	°C	80	
Dimensions (L : W : H)	cm	40 : 47 : 100	
Net weight	kg	approx. 19	
Sound pressure level emission			
Running at idle	dB	75	
Running with load	dB	73	

### Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 08/14. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.