

# MC-I 510

High-pressure piston pump for resin injection



## 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 ADVICE

**System description:** The MC-I 510 is an airlessly operating, pneumatically driven injection-pump. With a maximum output pressure of 264 bar, this pump corresponds to the specification of a high-pressure injection pump.

The MC-I 510 is mounted on a frame with an integrated suction tank. Thanks to the compressed-air drive, the MC-I 510 is suitable for use in potentially explosive areas.

The equipment includes 7.5 m high pressure hose as well as an injection pistol and injection nozzle.

Due to its handy design, the MC-I 510 can also be used in hardly accessible areas or on scaffolds directly at the injection site.

**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, release agent must be topped up to the highest possible level. Release agent is included with every newly delivered pump.

The pump is connected to an air pipe with sufficient capacity. The pressure regulator, which must be completely unscrewed when starting work, must be slowly turned in until the pump starts to work. By screwing in further, the pressure can be slowly increased to the desired injection pressure. This injection pressure is determined from the gauge pressure read off, multiplied by 33. The injection pressure in the structure is always lower because it is reduced by delivery losses. In addition, pressure losses at the packer valve must be taken into account.

**Equipment cleaning:** The pump must be carefully flushed immediately after use or within the processing time of the injection material. Within a working phase, partially reacted injection resin can be discharged with fresh resin.

After the injection work has been completed, the pump must be cleaned with the appropriate solvent for the injection material. After the reaction resin with solvent has been discharged, the solvent is circulated so that residual adhesions are also loosened. After cleaning, the pump must be filled with oil. The oil prevents moisture from entering the pump and at the same time lubricates the moving parts of the piston pump.

**Test cycles and maintenance plan:** Information on testing, maintenance and replacement of wearing parts can be found in the user manual.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Weight	kg	approx. 19	
Dimensions (L:W:H)	cm	40 / 47 / 100	
Air inlet pressure (maximum)	bar	8	
Air requirement	l/min	230	
Discharge rate (maximum)	l/min	approx. 3	
Emission sound pressure level at the workplace	dB		
In idle mode / no-load condition		approx. 75	
under load		approx. 73	
Injection pressure (maximum)	bar	264	
Pressure ratio		1 : 33	
Volume of integrated feed tank	l	1.5	
Temperature (medium)	°C	80	maximum

Storage

### Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets.

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2100004199]