

## COMPRESSOR FEATURES

**Dear customer,**  
**The information below is a guide containing advice and suggestions on the requirements for the compressor to be used for the Deflex injection device.**

**NUXEN**  
SRL  
**Technical Department**  
[info@deflex.com.ar](mailto:info@deflex.com.ar)  
[www.deflex.com.ar](http://www.deflex.com.ar)

### RECOMMENDATIONS FOR EXCLUSIVE CONNECTION TO INJECTION DEVICE

The suggested air pressure parameters for the compressor are as follows:

- Minimum pressure: 100 PSI = 7Kg/cm<sup>2</sup> = 6,90 bars  
i.e., switching it on to load the tank at 100 pounds and to cut the load at 120 PSI = 8,4 Kg/cm<sup>2</sup> = 8,3 bars
- Tank minimum capacity = 10 liters
- Recovery rate = 50 liters per minute (\*1)

### RECOMMENDATIONS FOR MULTIPLE CONNECTIONS

For compressors simultaneously connected to several devices, we suggest placing separate air outlets from the compressor itself to each device.



#### **IMPORTANT NOTICE**

The parameters below are reference values for guidance only. Always refer to the manufacturer's manual, or ask a specialized technician, about the appropriate air pressure parameters for each device.

For example, for a compressor that will be simultaneously connected to an injection device, a sandblaster and a pressure pump, the minimum suggested reference values are:

- Minimum flow = 150 liters per minute (\*2)
- Minimum recovery = 150 liters per minute
- Tank capacity = minimum 50 liters (\*3)

(\*1) No higher recovery rate is necessary, for there is a long time between injections.

(\*2) Flow is the amount of air delivered by the compressor during a given period.

(\*3) In case a chrome sandblaster is to be connected, the minimum recommended is = 100-liter tank, and a recovery rate of 200 liters per minute.

## GENERAL ADVICE



### **IMPORTANT NOTICE**

#### **Always check the air flow using the Deflex injection device**

Perform a first air flow test on the Deflex Injector -without cartridge or muffle-, and check the micro-injection device pressure gauge. Pressure should not fall below 55 pounds (55 lb = 4 Kg = 4 bars). In case the value is lower, the air flow is probably being limited by the type of valves or connections used.

Refer to the Deflex injector manual for the test injection.

- **VALVES**

The compressor shutoff valves should be ¼" gas ball valves, to ensure they let a good flow pass through. For other types of shutoff valves, check whether the flow is sufficient.



¼" gas ball valve  
(Reference picture)

- **HOSES**

Inside diameter = minimum 6 mm - maximum 8 mm

Length = not greater than 5 meters

- Since the Deflex injection device has its own pressure regulator, if the connection is exclusive the compressor need not have any regulator.
- If the compressor is set below the required parameters for using the Deflex injection device, it may be adjusted using the pressure-relief valve and the pressure switch, which is the built-in control and adjustment device in compressors, usually identifiable because it is a black box.
- Dentistry-specific compressors may be used, but they are usually set at lower air pressure parameters than conventional laboratory compressors.



### **WARNING!**

Always ask a specialized technician for compressor installation, adjustments and regular maintenance.



### **WARNING!**

Refer to the manufacturer's manual for the advisable maximum pressure for each compressor.