INSTALLATION INSTRUCTIONS

DCX3 DOUBLE-SEALING COMPRESSION VALVE
DCX3 AUTOMATIC DOUBLE-SEALING VALVE

1: DCX3 body + washing and leakage assembly (Washing indicator optional).
2: Shut-off subassembly
3: Seal
4: Clamp screw
5: Clamp (2 x ½ clamps)
A: Leakage chamber washing inlet.
B: Leakage indicator.

**IMPORTANT:** For all changes to the actuator configuration, please refer to the maintenance instructions or contact our Technical Staff.
To install your DEFINOX DCX3 Double-Sealing valve under the best conditions, we advise you to familiarize yourself with these instructions which describe the main stages of commissioning and the recommendations to be observed:

1. **WORKING CONDITIONS**
The working conditions of this valve (pressure, temperature, product conveyed, etc.) must correspond to the general technical characteristics described in the DEFINOX catalog available on request. Please consult us if in any doubt.

2. **AIR SUPPLY CONDITIONS**
The actuator is supplied with dry, filtered air with a pressure of 4.5 to 8 bar. The actuator air couplings are designed for a 4 / 6 diameter hose connection. The valve withstands a maximum working pressure of 6 bar, a maximum temperature of 120°C and an allowable vacuum of 0.3 bar.

3. **SEALS**
Unless otherwise specified in the order, DCX3 valves are equipped with the following seals:
- Food-quality Viton for the O-rings
Other types are also available
- EPDM
- Silicon
- Acid-resistant Viton
The choice of seal type is most important for correct valve operation. Choosing the right seal is not always easy to do as all of the characteristics of the products flowing through the valve need to be taken into consideration. Please contact us should your require assistance.

4. **N.C. (Normally Closed), N.O. (Normally Open) AND D.A. (Double Acting) ASSEMBLIES**
DCX3 Double sealing valves are supplied as standard assembled with an N.C. (Normally Closed) setup and require an air supply to disassemble the plug.
On request, we can supply them with an N.O. (Normally Open) or D.A. (Double Acting) configuration.
**Important Note:** To change the configuration, please consult the maintenance instructions (IT.DFX.036 – revision 7 – September 1999).

5. **INSTALLING THE VALVE ON THE PROCESS LINE**
To install the valve on the line, the **weld-on body must be separated** from the rest of the valve to prevent damage to the sealing face.
Carry out this simple operation as follows while referring to the diagrams:
**CAUTION:** The body and plug, must match (numbers stamped on the components).

A-DCX3 (Single-Body Valve)
Put the valve in the “open” position. With an N.C. configuration, open the air supply to the actuator (2). Remove the clamp (5) by unscrewing the screws (4). Cut off the air supply and separate the body (1) from the rest of the valve. Weld the body onto the pipes.
B-Refitting DCX3 DOUBLE-SEALING VALVES
Check that the seal contact surface inside the body (1) is clean. Check the position of the seal (3) on the 
actuator lantern. Put the valve in the “open” position. With an N.C. setup, open the air supply to the actuator 
and insert the shut-off assembly (2) into the body making sure not to damage the seals on the edges of the 
components. Refit the half-clamps (5) and screws (4). When using for the first time, check the lower line and 
the upper line or lines for leaks.

N.B.
- We recommend the use of a middle threadlocker to lock the plug during its reassembly to the 
  automatic actuator
- During sawing operations, avoid getting chips of filings inside the pipes. Rinse the pipes thoroughly 
  with the valve open to avoid seal damage when the valve is put into operation.

6. STORAGE
We advise you to store your valves as long as possible away from worksite pollution (abrasive dust, impacts, 
acids or chorine-containing substances, UV’s, etc.) and mounted wherever possible to avoid mixing 
components.

7. SPARE PARTS AND DISASSEMBLING THE ACTUATOR
We can supply the part numbers for your valve components on request. You can also identify its serial number 
from the number stamped on the actuator.
Actuator disassembly is a simple yet delicate operation that requires appropriate tools and compliance with the 
valve maintenance instructions.
Please contact us to obtain a copy of these instructions or to have maintenance operations carried out at our 
premises or on site.