



I Application

The C-TOP is a pneumatic control unit designed to ensure an optimum control over the INOXPA process valves. It is compatible with most PLC (Programmable Logic Controllers) automated systems with Digital communication or bus (AS-interface). C-TOP can be installed to any current process valve in the food-processing, beverage and biopharmaceutical industries.

I Operating principle

The C-TOP control unit incorporates indication and command devices to monitor all types of (piston) process valves.

This unit as a single piece has the following features:

- . Pneumatic and electric control over the valve
- . Position detectors with feedback
- . Possibility of bus communication (AS-interface)

The control units are fitted to the pneumatic actuator. It receives signals from a control panel or from a PLC to actuate the valves and sends signals to the PLC or to the control panel to communicate the status/position of the valve.

Moreover, the C-TOP unit contains three leds constantly indicating the status of the valve:

- . Green light: the valve is ON
- . Red light: the valve is OFF
- . Yellow light: 3rd position is activated (Mixproof valve)



I Design and features

The design of the C-Top unit is simple, modular and resistant that guarantees the maximum flexibility. The C-TOP units can be set up according to the customer's requirements.

Configuration of solenoid valves

- . Single-acting actuatuion - 1 solenoid valve
- . Double-acting actuatuion - 2 solenoid valves
- . Mixproof valve – 3 solenoid valves

Configuration of detectors

The valve position is detected by means of microswitches or inductive detectors.

- . 1 position (closed or open valve) - 1 detector
- . 2 positions (closed and open valve) - 2 detectors
- . 3 positions (open valve, closed valve, Mixproof seat cleaning) - 3 detectors

I Materials

Base	PPO + GF
Cover	Transparent PC (standard) Transparent PSU (optional, for work under extreme conditions)
Gaskets	EPDM (standard)

I Options

External detector (Detection of the seat lift when it cannot be detected inside the C-TOP).

Materials for work under extreme conditions (PSU cover).

Solenoid valves 24, 110, 220 VAC.

Communication: AS-interface.

**I Technical specifications**

Max. working temperature	70 °C (158 °F)
Media	lubricated compressed air, neutral gases according to DIN ISO 8573-1
Pneumatic connections	G1/8" (Ø 6 mm pipe)
Electrical connections	cable glands PG 16 x 1'5 (Ø 10 mm cable)
Working pressure	1,5 - 7 bar (22 - 102 PSI)
Air flow	150 NI
Protection	IP 65 / 67 according to EN 60529
Voltage supply	24 VDC 24 / 110 / 220 VAC (microswitches only)
Adjustment range	3 - 70 mm
Weight	560 - 640 g

I General dimensions