Turbo-Pulse Cleaner CTP-2001

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1. Introduction

The APSON Turbo-Pulse Cleaner CTP-2001 is a pneumatically controllable rinsing block for aggressive lacquers and solvents. It is an optionally available cleaner block for the modular APSON Lacquer Changer ###-2000 M and is particularly suitable for automatic painting systems with often changing lacquers. It serves for rinsing the lacquer change-over switch, the hoses and rotation atomizers or spray guns.

APSON Turbo-Pulse Cleaner CTP-2001

This cleaner type is an advancement of the APSON Pulse Cleaner 2000 and is optimized for economical solvent consumption with constant rinsing quality. It avoids reliably a pollution of the newly connected lacquer during the painting process and ensures thus a perfect lacquer change.

2. Features

- Smaller solvent consumption than the APSON Pulse Cleaner CTP-2000.
- Environmental careful short rinsing cycle due to high throughput.
- Very good rinsing barness due to deathroom-minimized valve blocks.
- The valves are compatible with the valves of the lacquer change-over switch blocks.
- Fast valve exchange due to screwable valve technique.
- Pro-active maintenance possible due to leakage indication of the valves.
- Visible switching status of the valves.
- Small, compact form.

3. Structure and Function

The APSON Turbo-Pulse Cleaner 2001 consists of a block housing with an output and one input each for solvent LO resp. compressed air LU. The output side of the Turbo-Pulse Cleaner forms a pressure tight interface to the valve blocks of the lacquer change-over switch.

A pneumatically controllable valve is assigned to each input. To ensure a safe function of the Turbo-Pulse Cleaner the pressure at the solvent input must be approx. 1 to 1.5 bar greater than the pressure at the compressed air input. Therefore the fitting for the compressed air input is provided with an additional check valve.

During painting, solvent and compressed air pend permanently at the turbo-pulse cleaner. If a rinsing cycle is to be initiated, then with still closed compressed air valve LLF first the solvent valve LF is opened. Briefly afterwards the compressed air is released for the entire duration of the rinsing cycle. With opened compressed air valve the flow of the solvent is then periodically interrupted and released again in short time intervals. At the end of the rinsing cycle, the air flow as well as the solvent flow are stopped.

Due to this sequence, a pulsating media flow from air-sputtered solvent develops, which reliably rinses downstream the lacquer change-over switch, the hoses and other spray devices. The duration of the rinsing cycle as well as the switching frequency of the solvent valve depend on the conditions of the painting process and has to be controlled by means of a programmable logic controller. The more briefly the switching-on impulses of the solvent valve (preferably smaller than 1 second), the better the rinsing quality.

4. Technical Data

Denomination:	**APSON Turbo-Pulse Cleaner CTP-2001**
Media:	Lacquers, solvents, a.o.
Compressed air pressure:	6 to 12 bar
Solvent pressure:	6 to 12 bar, but 1 to 1.5 bar greater than compressed air pressure
Valve assembly:	two 2/2-ways valves, see Ordering Data
Checkvalve:	one checkvvalve, see Ordering Data
Valve switching pressure:	6 to 8 bar, measured at the valve
Housing material:	Inoxidable steel, see Ordering Data
Sealing material:	Viton™, or after customer's request
Control air link:	for hose, d = 2.7 mm, D = 4 mm
Compressed air input:	for hose, d = 8 mm, D = 10 mm
Solvent input:	for hose, d = 6 mm, D = 8 mm
Dimensions, block:	length 85 mm, depth 39 mm, height 42 mm
Dimensions, complete:	length 99 mm, depth 39 mm, height 87 mm resp. 110 mm
Mass, block:	approx. 500 g
Mass, complete:	approx. 600 g

5. Ordering Data

Denomination	Quantity	Part-Nr.
APSON Turbo-Pulse Cleaner CTP-2001, complete	1	070-A002
APSON 2/2-Ways Valve 2000	2	060-A008
APSON Checkvalve 2000	1	100-A001

Options:

- Housing from aluminum, anodized.
- Sealing material after customer's request.
- Air/solvent links after customer's request.

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