Pulse Cleaner 2000

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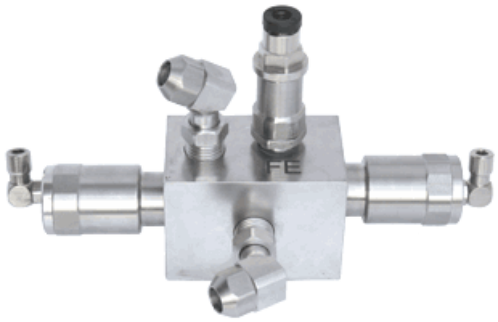
1. Introduction

The APSON Pulse Cleaner 2000 is a pneumatically controllable rinsing block for aggressive lacquers and solvents. It is the standard cleanerblock designated for the modular APSON Lacquer Changer 2000 M.

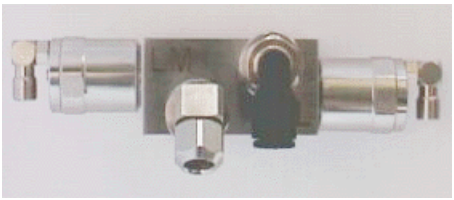


APSON Pulse Cleaner 2000

The APSON Pulse Cleaner 2000 is particularly suitable for automatic painting systems with often changing lacquers and serves for rinsing the lacquer changer switch, the hoses and rotation atomizers or spray guns. It avoids reliably a pollution of the newly connected lacquer during the painting process and ensures thus a perfect lacquer change.

2. Structure and Function

The APSON Pulse Cleaner 2000 consists of a block housing with an output and one input each for solvent LM (LO) resp. compressed air LU. The output side of the 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. Due to that alternated control of the two valves, the opening times of the valves can overlap. Therefore the connetion fittings of both inputs (compressed air and solvent) contain an additional checkvalve each.

During painting, solvent and compressed air pend permanently at the pulse cleaner. For executing the rinsing cycle, the solvent valve LF and the compressed air valve LLF are alternatingly opened, starting with the solvent valve.

Due to this sequence, an alternating flow of air resp. solvent develops, which rinses reliably the lacquer changer switch downstream the hoses and other spray devices. The duration of the rinsing cycle as well as the switching

sequence of the two valves depend on the conditions of the painting process and are to be controlled by means of a programmable logic controller. The more briefly the switching on impulses of the two valves (preferably smaller than 1 second), the better the rinsing quality.

3. Features

- Small solvent consumption for perfect rinsing.
- 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 changer switch blocks.
- Fast valve exchange due to screwable valve technique.
- Pro-active maintenance possible due to leakage display of the valves.
- Visible switching status of the valves.
- Small, compact design.

4. Technical Data

Table 1.

Denomination:	APSON Pulse Cleaner 2000
Media:	Lacquers, solvents, caustic solutions, a.o.
Compressed air pressure:	6 to 12 bar, see also solvent pressure.
Solvent pressure:	6 to 12 bar, (1 to 1.5 bar higher than compressed air).
Valve assembly:	Two 2/2-ways valves, see Ordering Data.
Checkvalves:	Two checkvalves, see Ordering Data.
Valve switching pressure:	Min. 6 bar, max. 8 bar, measured at the valve.
Housing material:	Inoxidable steel, see Ordering Data.
Sealing material:	Viton™
Control air link:	For hose, d = 2.7 mm, D = 4 mm
Compressed air input:	For hose, d = 6 mm, D = 8 mm
Solvent input:	For hose, d = 6 mm, D = 8 mm
Dimensions, block:	Length 59 mm, Height 30 mm, Depth 42 mm
Dimensions, complete:	Length 149 mm, Height 30 mm, Depth 47 mm resp. 97 mm
Mass of the block:	approx. 280 g
Mass, complete:	approx. 380 g

5. Ordering Data

Table 2.

Denomination	**Quantity**	**Part-Nr.**
APSON Pulse Cleaner 2000, complete	1	070-A005

Denomination	Quantity	Part-Nr.
APSON 2/2-Ways Valve 2000	2	060-A008
APSON Checkvalve 2000	2	100-A001

Options:

- 1. Housing from aluminum, anodized.
- 2. Air/solvent connectors on customer's request.

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