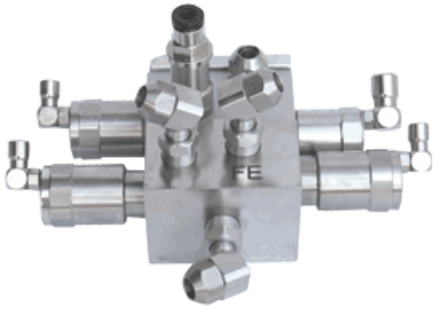
Secondary-Circuits Rinsinggroup CSC-2000

Table of Contents

1. Introduction

The APSON Secondary-Circuits Rinsinggroup CSC-2000 serves to divide long lacquer lines into individual rinsing segments. **The resulting shorter segments can be rinsing cleaned simultanely and independently.** This leads to substantially shorter rinsing cycles and to more flexible rinsing concepts.



APSON Secondary-Circuits Rinsinggroup CSC-2000 in standard execution

The APSON Secondary-Circuits Rinsinggroup CSC-2000 is particularly suitable to applications in automatic systems for the processing of lacquers, solvents, caustic solutions, a.o.

2. Features

- Cost-saving because of short rinsing duration.
- Optimal cleaning efficiency due to short rinsing segments.
- Simplest handling at assembling and maintenance.
- Fast and more easily exchange of the valves.
- Deathroom-free valves and visible switching status.
- Pro-active maintenance possible due to leakage display of the valves.
- Compact housing with high throughput.

3. Structure

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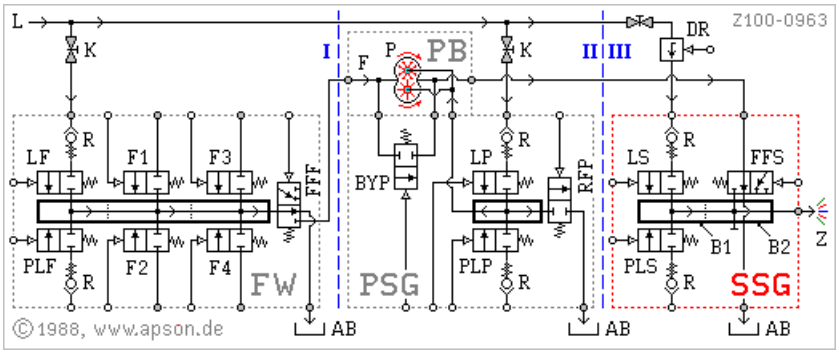

APSON Secondary-Circuits Rinsinggroup CSC-2000 - Structure

A Secondary-Circuits Rinsinggroup 2000 in standard execution, is shown in the above image. The group is build of:

- **Rinsing block** (shown at bottom).
- **Switching block** (shown at top).

The **rinsing block** in standard execution has two pneumatically controllable 2/2-ways valves and two checkvalves. As rinsing block alternatively installable types:

- APSON Pulse Cleaner 2000 (standard rinsing block).
- APSON Turbo-Pulse Cleaner 2001.
- APSON Turbo Cleaner 2002.

The **switching block** has as standard a pneumatically controllable 3/2-ways valve for the laquer enable resp. laquer feedback. For special applications, e.g. preloadeable A-B systems, the switching block is optionally available with a second 3/2-ways valve.

4. Function

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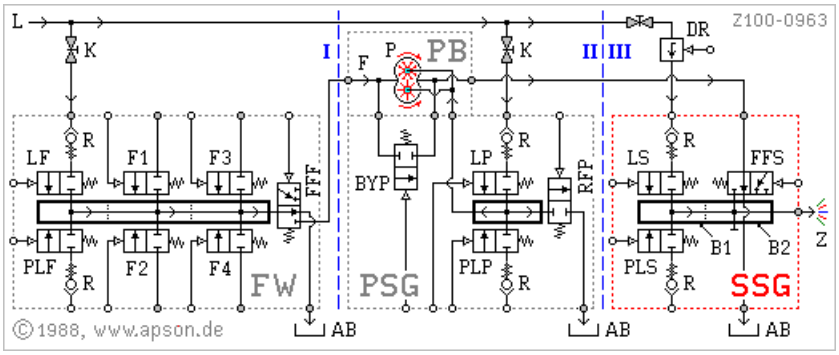
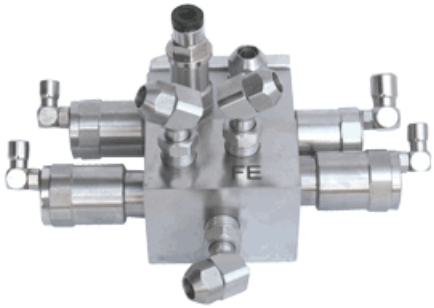


APSON Secondary-Circuits Rinsinggroup CSC-2000 - Function

The following scheme shows en exemplaric **Concept for laquer supply with a Secondary-Circuits Rinsing-group (SSG).** The SSG divides the paint line mainly in two segments:

- **Supply-sided segments I and II.**
- **Atomizer-sided segment III with SSG.**

The following mainly describes segment III with SSG. Segments I and II are provided only for better understanding of the following text.



APSON Secondary-Circuits Rinsinggroup 2000 - Functional Scheme

Legend

- **Secondary-Circuits Rinsinggroup SSG (segment III):**B1 = rinsing block, B2 = switching block, LS = secondary circuit solvent, PLS = secondary circuit pulsing air, FFS = secondary circuit laquer enable.
- **Pump block PB (in segment II):** P = rinseable gearing pump, F = paint line from the laquer change-over switch.
- **Pump rinsinggroup PSG (in segment II):** LP = pump group solvent, PLP = pump group pulsing air, RFP = pump group paint feedback, BYP = pump group bypass-valve.
- **Laquer switch FW with own rinsing block (segment I):** LF = laquer switch solvent, PLF = laquer switch pulsing air, FFF = laquer switch laquer enable, Fx = laquer 1 to laquer N.
- **Other Symbols:** L = solvent line, DR = pressure regulator, AB = receptacle, RF = feedback, K = ball-valve, R = checkvalve, Z = atomizer.

During the painting process the feedback link of the switching block FFS is closed. The laquer flows thus through the switching block FFS to the atomizer Z.

During the rinsing cycle the APSON Cleaner of the lacquer change-over switch LW becomes active and the 3/2-ways valve of the switching block FFF switches the supply sided hose segment over its feedback link to the receptacle AB. The APSON Cleaner of the APSON Secondary-Circuits Rinsinggroup SSG becomes simultaneous active and rinses the mixture from lacquer, air and solvent of the atomizer-sided hoses of segment III over the feedback valve of the atomizer into the likewise receptacle AB.

5. Technical Data

Denomination:	APSON Secondary-Circuits Rinsinggroup CSC-2000
Media:	Lacquers, solvent, caustic solutions, a.o.
Medium pressure:	max. 12 bar
Rinsing block valves:	two APSON 2/2-Ways Valves
Switching bock valves:	one APSON 3/2-Ways Valve, see Options
Housing material:	Inoxidable steel
Seal materials:	Teflon™ and/or Viton™, *
Valve control air pressure:	6 bar to 8 bar, measured at the valve
Control air pressure link:	for hose, D = 4 mm, d = 2.7 mm, *
Solvent link LM:	for hose, D = 8 mm, d = 6 mm, *
Pulsation air port PL:	for hose, D = 6 mm, d = 4 mm, *
Medium input FE:	for hose, D = 6 mm, d = 4 mm, *

Medium output:	for hose, D = 6 mm, d = 4 mm, *
Feedback port RF:	for hose, D = 8 mm, d = 6 mm, *
Dimensions without valves:	length 59 mm, width 42 mm, height 68 mm
Dimensions with valves:	length 124 mm, width 174 mm, height 88 mm
Houlder:	Support angle, *
Mass:	approx. 1.5 kg

* or after customer's request

6. Ordering Data

Denomination	Part-Nr.
APSON Secondary-Circuits Rinsinggroup CSC-2000 (with one 3/2-ways valve for laquer enable/feedback)	050-A007
APSON 2/2-Ways Valve 2000 (sparepart)	060-A008
APSON 3/2-Ways Valve 2004 (sparepart)	060-A015
APSON Checkvalve 2000 (sparepart)	100-A001

Options:

- Secondary-Circuits Rinsinggroup CSC-2000 with *two* 3/2-ways valves for laquer enable/feedback.
- Secondary-Circuits Rinsinggroup CSC-2000 with APSON Turbo-Pulse Cleaner 2001.
- Secondary-Circuits Rinsinggroup CSC-2000 with APSON Turbo Cleaner 2002.

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