

DISPENSING HEAD FS XS

Small to Medium Sized Flexible Packaging Companies

Description

The FS xs is our smallest fully automatic dispensing system and suitable for ex- and non-ex-environment. As cost-effective option it has been developed for low to medium users of ink who do not want to cut back on quality and traceability. The FS xs is suitable for water-, solvent- and UV-based components. All components are recirculated through the valve in order to avoid sedimentation. With its compact and modular design the FS xs is ideal where space is limited. The dispensing process is controlled via PLC and our dispensing-software CALIPSO^{PRO}.

- ▶ For small to medium sized batches
- ▶ Up to 32 dispensing valves with FS xs
- ▶ Fixed valve platform with valves arranged in a circle
- ▶ Actuation of dispensing valve via pneumatic cylinder
- ▶ For ex and non-ex environment
- ▶ With 30 and 60 kg-scale as standard but larger scales available

Storage Farm

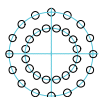
The FS xs can be combined with different kinds of containers. As a standard the storage farm would be arranged in two rows behind the dispensing head or in line to the left and right of the dispensing head. However, the arrangement will be adapted to the client's specific needs and situation on the production site.

FÜLL-Dispensing Valves for FS xs

- ▶ Valve-diameter outlet: 15 mm
- ▶ Flow rate of 0,318 m³/h^{*)}
- ▶ Valve head flush with the valve platform to allow for complete removal of residues with valve head cleaning unit or manual cleaning
- ▶ Made of stainless steel
- ▶ Re-circulation connection is standard

^{*)} for water and a velocity of 0,5 m/s

As the valves are fixed to the valve platform/block and arranged in circles the number of valves will define the minimum diameter of the dispensing container:



32 Valves
Ø 330 mm



24 Valves
Ø 280 mm



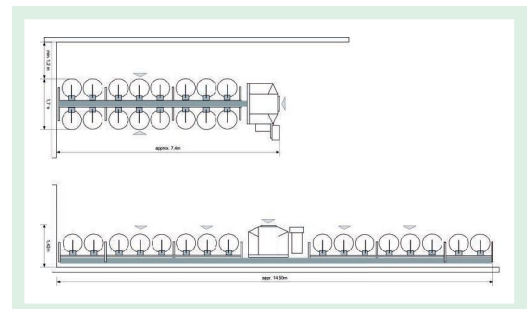
18 Valves
Ø 230 mm



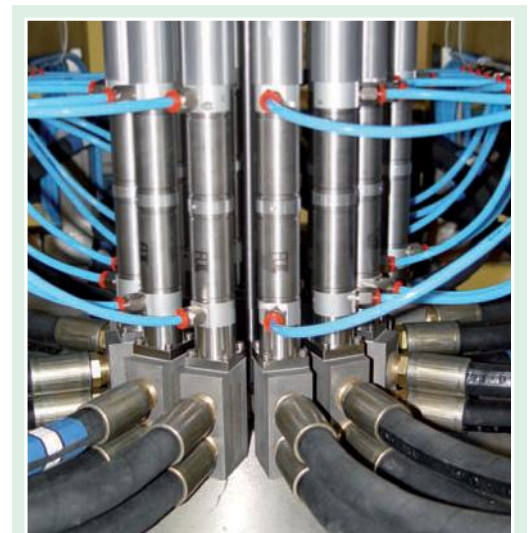
16 Valves
Ø 210 mm



FS xs: ex-proof design



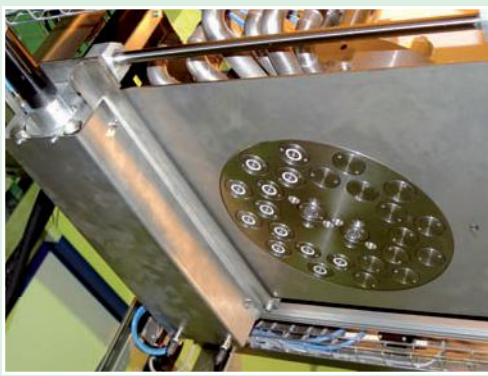
Storage Farm: standard arrangements



FÜLL-Dispensing Valves for FS xs



Valve Head Cleaning Unit: top view – easy access



Valve Head Cleaning Unit: bottom view – basic position

Valve Head Cleaning Unit

FÜLL's Valve Head Cleaning Unit combines mechanical cleaning (rotating brush) and chemical cleaning (suitable cleaning liquid). It properly removes residues of components sticking to the valve head after dispensing and avoids emission of solvent.

Assemblies:

- ▶ Pan with rotating brush and pneumatic drive
- ▶ Double diaphragm pump
- ▶ Hoses and fittings

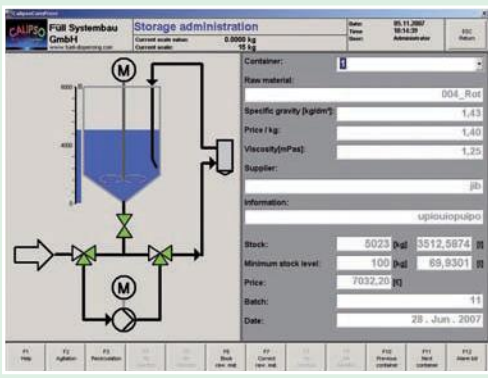
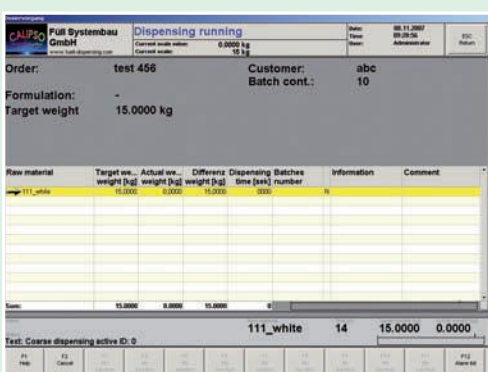
Software CALIPSO^{PRO}

The software CALIPSO^{PRO} (Colour and Liquid Processing Software) is written and supported in-house. This allows a quick and reliable service and customized programming whenever needed. Some of its functions:

- ▶ Order administration
- ▶ Administration of formulations
- ▶ Administration of liquid raw materials
- ▶ Ink returns management
- ▶ Inventory control
- ▶ Agitation and recirculation of products
- ▶ Password system (access rights)
- ▶ History file
- ▶ Printing functions
- ▶ Error messages
- ▶ And many more...

Options

- ▶ Manual Control Backup
Emergency tool which will allow the operator to dispense single components via PLC in case the dispensing-PC breaks down.
- ▶ Connection to Colour Matching Software
Formulations created/modified on the Colour Matching Software will be communicated to the dispensing system
- ▶ Connection to ERP-Software
To communicate relevant dispensing information such as orders, formulations, target weights etc. and to communicate back actual values, inventory levels etc.
- ▶ Agitators
To homogenize formulations after dispensing
- ▶ And many more...



Software CALIPSO^{PRO}

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