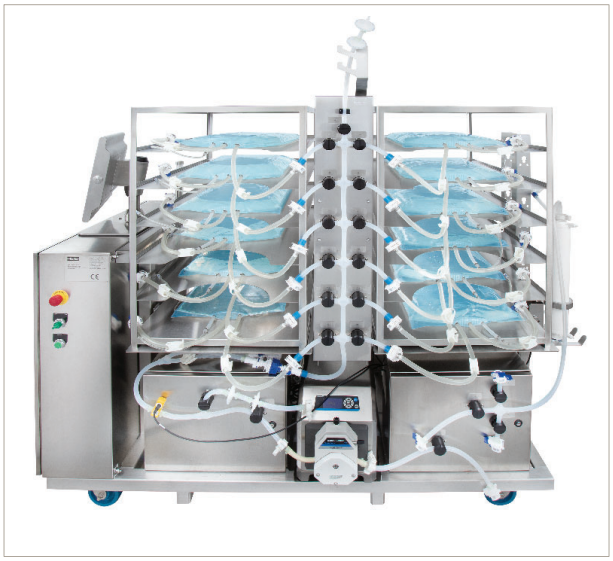
SciLog® Filter & Dispense Bag System

- bulk filtration & bag filler for BDS applications
- compact design for space & efficiency
- easy to use operation standardizes the filter & dispense process

The SciLog® Filter & Dispense Bag System is a bulk filtration and bag filler designed to fill up to twelve 20 L bags accurately and aseptically in an automated fashion, and perform in-line pre and post-use integrity tests.



Automation and ease of use enables operators to perform the bulk filtration and filling process for BDS applications without receiving specialized training. By using a closed flow path and sterile connections, additional environment monitoring is not required during the process, which can be performed in a standard clean-room environment without a need for a flow cabinet.

Both the hardware and the consumables in the Filter & Dispense Bag System have been designed in tandem to minimize product loss and maximize yield.

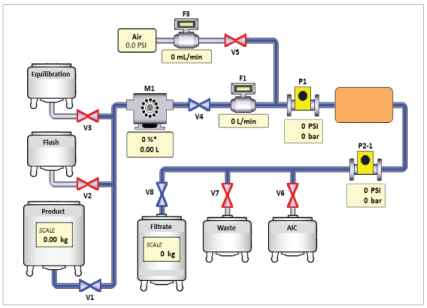
Features and Benefits

- Standardization of fill operations with minimal training
- No additional environmental monitoring required
- Ergonomic operation and low processing time
- Easy change outs with removable bag trays and aseptic disconnections
- Easy automation that removes air from system prior to fill
- Simultaneous filtration during dispensing
- Built in automation to minimize bulk product loss
- Reverse flow and purge options to maximize product recovery
- Recovery of 99% of product in dispensing spine
- In process sampling
- Automated filter flushing and conditioning with automated inline filter integrity testing
- Fully programmable alarms and interlocks to protect operator, product and process; reducing variation while increasing productivity and improving overall safety

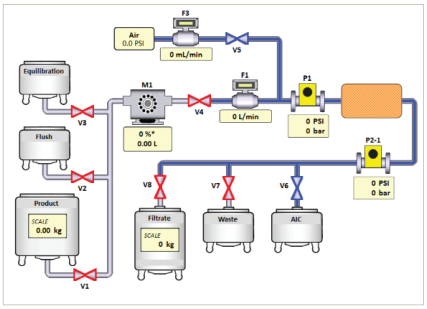
Flexible Performance

The SciLog Filter & Dispense Bag System is designed to perform 3 process steps in one; filtration of bulk material, pre and post-use integrity testing of the filter, and dispensing into bulk containers.

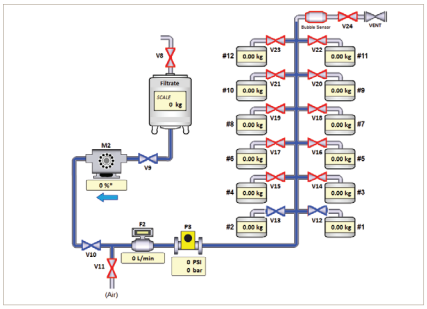
Filtration into immediate container



In-line integrity testing



Gravimetric dispensing



Bulk fill and sampling with DuraPure™ single-use bags

20L DuraPure Bag

100L DuraPure Bags

DuraPure™ containers are offered in sizes ranging from 1 L to 100 L in 3 dimensional bag designs.

For 2 dimensional pillow bags the sizes range from 50 ml to 100 L.

The product contact layer of the 2-ply DuraPure container is made of a LDPE [Low Density Polyethylene) film, and the external layer is made of a LLD PE film [Lineal Low Density Polyethylene) film.

DuraPure C93 film is a high-purity coextruded biopharmaceutical grade film designed to provide the best combination of strength, flexibility, inert product contact and gas barrier. The product contact layer is ultra low density polyethylene [ULDPE). The gas barrier layer is polyethylene vinyl acetate copolymers [EVOH).

Specifications

Dimensions	73"L (185.42 cm) x 36"W (91.44 cm) x 75"H (190.5 cm)	**Software compliance**	Compliant to 21CFR11
Fill volume range	1 L – 20 L bags	**User interface**	SciSoft with ability to connect to Plant control system (e.g. DeltaV™ on request)
# of bags filled per manifold	Up to 12 x 20 L bags	**Automation**	PLC onboard- single or batch
Hold-up volume	99% recovery	**Connection to plant control system**	OPC, Profibus, or Ethernet IP
Filtration pump	Quattroflow 1200 SU 1.8 – 18 L/min	**Recipes**	Flush, equilibrate, filter integrity test, const rate/ const pressure filtration, bulk weight management, dispensing and recovery
Dispensing pump	Watson Marlow (0.1-12 L/min) or Master Flex (0.1 -17 L/min) peristaltic pumps	**In-line sensing**	2x SciPres II Single-Use Pressure Sensors
Scale resolution	1% of full scale	**Qualification package**	Standard turnover package included. IQ/ OQ, PQ and GAMP packages available upon request.
Tubing	Standard is silicone, options for TPE and PVC. Fitted with connections to match fill containers and feed vessel.	**Certificates**	System COC, Manifold COC, Gamma, USP Class VI
MOC of manifolds	Platinum cured silicone, polypropylene, polysulphone, pharmapure, polycarbonate	**Operating temperature**	4°C to 40°C
Label printer	Cryogenic compatible labels	**Electrical standards**	Meets Stds for CE/UL/CSA, RoHS, REACH
Pneumatic requirement	90 PSI instrument air or nitrogen	**Electrical requirements**	100-240V single-phase, additional voltages available upon request

Ordering Information

SYSTEMS

805 - FDBAG -

Code	Dispensing Pump
WM	Watson Marlow
MF	MasterFlex

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Code	Utilities
120-1	120V single phase
220-1	220V single phase
220-3	220V three phase
480-3	480V three phase

Example part configuration: 805-FDBAG-MF-480-3

CONSUMABLES

Manifold Type	Part#
Filtration Manifold	805-FDBAG-MNFD-PREFILT
Post Filtration Line Manifold	805-FDBAG-MNFD-POSTFILT
Distribution Pump Manifold	805-FDBAG-MNFD-DISTPUMP-WM[1]
	805-FDBAG-MNFD-DISTPUMP-MF[2]
Bag Spine Manifold	805-FDBAG-MNFD-SPINE

[1] For Watson Marlow Pump / [2]For Masterflex Pump

To configure additional options for systems or manifolds, please contact your Parker sales representative or email bioprocess.systems@parker.com

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