

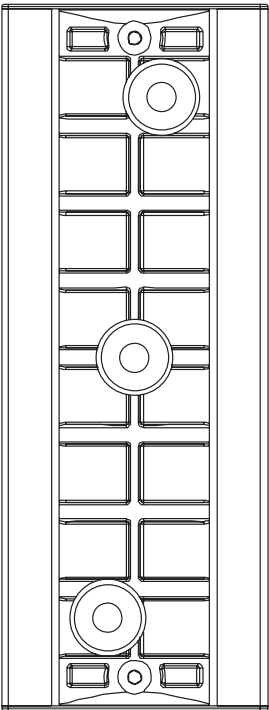
Kvick Lab SCU

1. Learn about the SCU

Membrane surface area	0.11 m² (1.2 ft²)
Housing	Polysulfone
Gaskets	Silicone
Membrane	Polyethersulfone
Membrane backing	Polypropylene copolymer
Membrane screen	Polypropylene

At room temperature, resistant to:

- Sodium hydroxide (1 M)
- Sodium hydroxide (0.5 M) and 300 ppm of sodium hypochlorite
- Sulfuric acid (0.5 M)
- Sodium hypochlorite (500 ppm)
- Peracetic acid (3%)
- Ethanol (40%)
- Isopropyl alcohol (20%)
- Many other chemical solutions

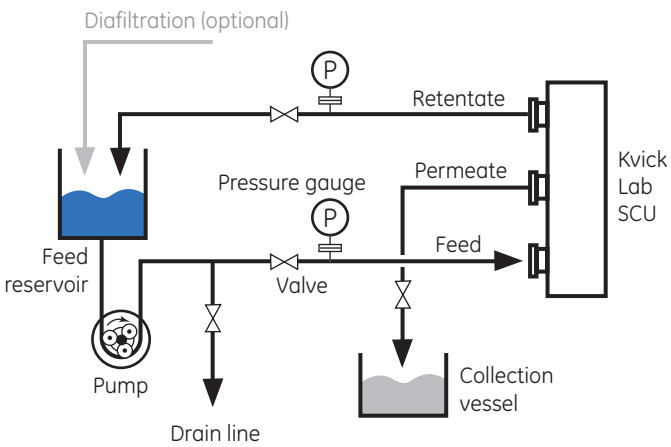


2. Open the SCU bag safely

The SCU contains up to 0.2 N NaOH and 22% glycerin in solution.

- Wear safety glasses, gloves, and lab coat.
- Open the plastic bag.
- Hold the SCU over a sink, remove silicone stoppers from the ports, and allow any excess storage solution to drain from the SCU before use.

3. Learn the system flow



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Amersham Biosciences AB, a General Electric Company going to market as GE Healthcare.

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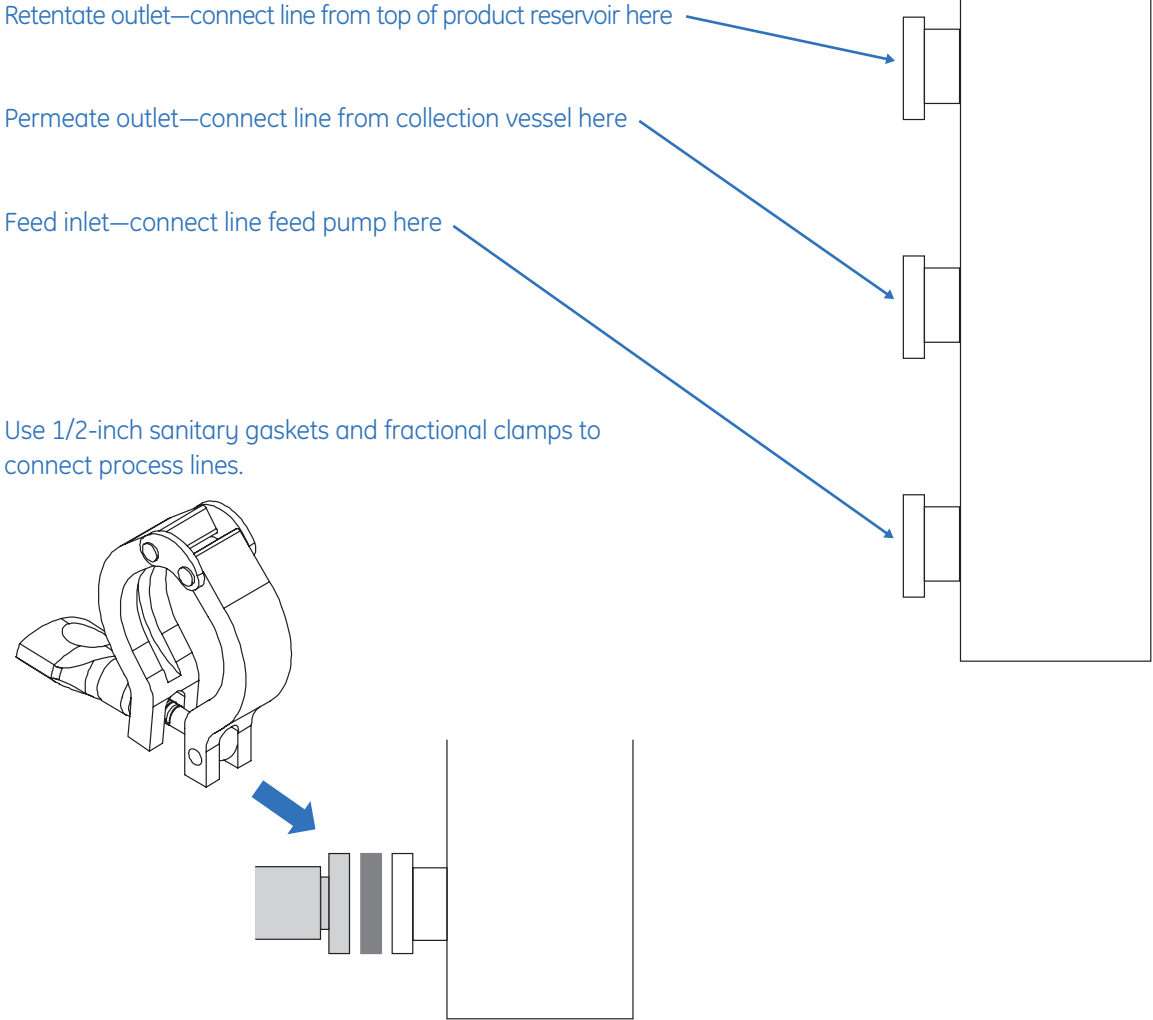
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4. Connect the SCU



5. Learn the operating specifications

Typical cross flow rate:
600 to 800 ml/min/SCU

Typical transmembrane pressure:
1.7 to 2.4 barg (25 to 35 psig)

TRANSMEMBRANE PRESSURE =
 $\{(\text{FEED PRESS.} + \text{RETENTATE PRESS.}) \div 2\} - \text{PERMEATE PRESSURE}^1$

Max. operating pressure:
3 barg (45 psig)

Max. operating temperature:
50°C

Recommended pH operating range:
2 to 13

SCU non-recoverable (drained) volume:
less than 20 ml

SCU minimum working volume:
50 ml

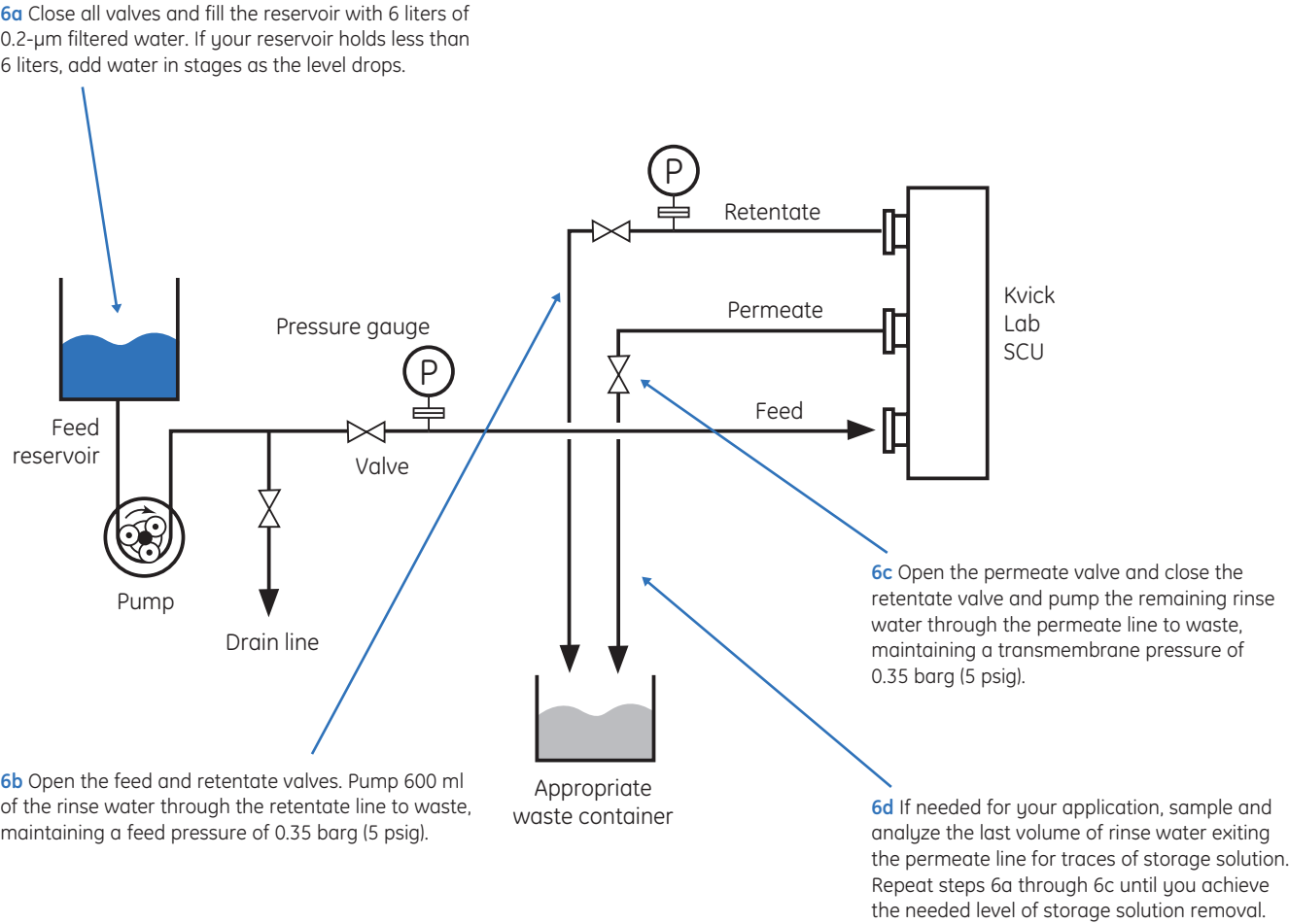
¹ Permeate pressure is typically 0 barg (0 psig).

 CAUTION

If you are new to or have no training in cross flow filtration, you should read and follow the instructions in the auxiliary user manual entitled, *Using the Kwick Lab Self-Contained Unit*, before using the SCU. The auxiliary user manual is available on our Web site and from your local GE Healthcare representative.

6. Rinse the SCU

Before using a new Kwick™ Lab SCU, you must rinse it with clean (0.2-µm filtered) water to remove the storage solution. In addition, some applications require that you complete other preparatory steps such as measuring water flux, testing the integrity of the cassette, sanitizing the cassette, and conditioning the cross flow system with buffer. See the supplemental user manual for additional guidance.



Getting help

If you are new to cross flow filtration and require additional information, read the auxiliary user manual entitled, *Using the Kwick Lab Self-Contained Unit*. This user manual is available on our Web site and from your local GE Healthcare representative.

You can access technical information and learn more about Kwick Lab products by visiting our Web site, www.gehealthcare.com. In the USA, you can contact our customer and technical support teams by calling 1-800-526-3593. Outside of the USA, you can contact your local GE Healthcare representative using the telephone numbers listed at the back of the Kwick Lab system user

manual. You can also receive customer and technical support by emailing us at these addresses:

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