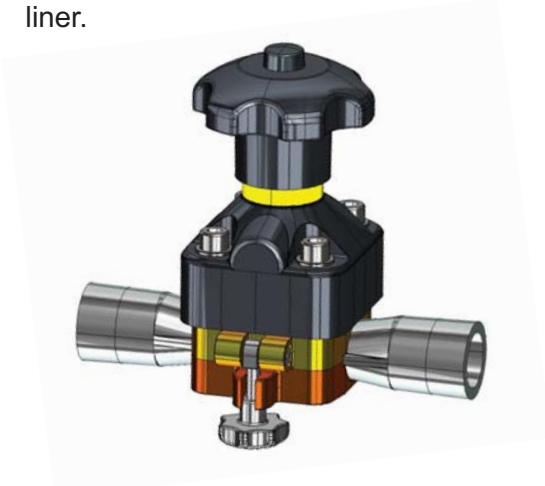


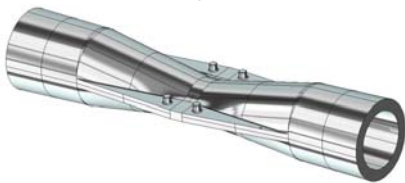
Saunders SIMFLEX™ Single Use Liner Valve

HC4 Diaphragm Valves

Saunders SIMFLEX™ Single Use Liner Valve combines the benefits of conventional diaphragm valve design with a sterile, single use disposable liner.



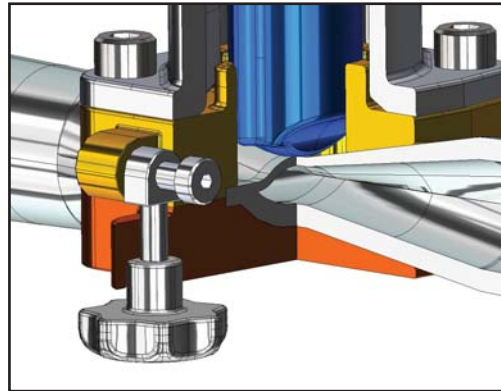
The Bioprocess Industries are rapidly adopting a new operating philosophy where all product contact surfaces are disposed of after each use - eliminating cleaning regimes and cleaning validation while improving product purity and operational security.



SIMFLEX™ provides the repeatable and reliable control characteristics of a conventional diaphragm valve with the advantages of a disposable single use product contact liner. Disposable systems eliminate CIP/SIP, the risk of cross-contamination, dramatically reduce wastewater and lower both capital and operating costs.

The SIMFLEX™ liner valve brings manual operation and enhanced automation capability - including interface with programmable logic controllers (PLCs), distributed control systems (DCS) and fieldbus control systems (FCS) - into the realm of the single use system.

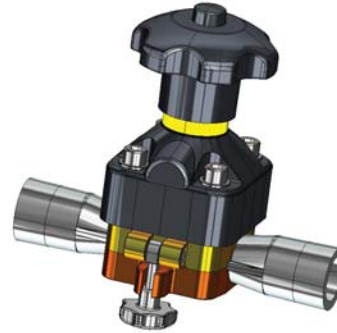
The SIMFLEX™ liner is a 1.00" (DN25) ID insert, with 0.19" (4.8mm) wall, mounted to a 1.00" standard Saunders manual or pneumatic operator. This valve is compatible with tubing sizes from 0.50" to 1.00" ID and flow from 0 to 35 l/min.



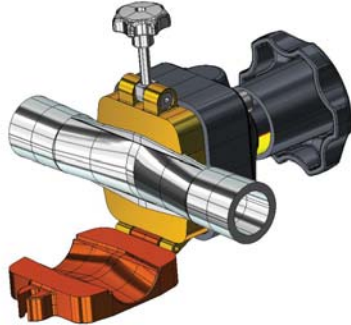
Different tube sizes can be accommodated by the use of reducers/enlargers. The liner can generate up to 45 psig with 1.5 psi pressure drop, and has been tested to 50,000 cycles. All product contact components comply to the most rigorous industry standards, including CFR 21 177, USP Class VI and are animal derivative component free (ADCF).

HC4/081/01/06.04

This innovative valve concept completely isolates the process from both top works and from the environment, without the use of seals.



The valve consists of a proprietary disposable liner inserted into a cradle which mates to a standard Saunders automated or manual actuator.



After use, the cradle can be opened, releasing the liner. A new liner is inserted and the valve is ready for the next batch, without the need for the conventional CIP/SIP regime.



The liner can be incorporated into disposable tube sets via barbed connectors, over mold fusion or hygienic clamp connections.

By incorporating hygienic clamp ends, the SIMFLEX™ liner valve can also be used in a conventional stainless steel system.



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