



Si straightflovalve



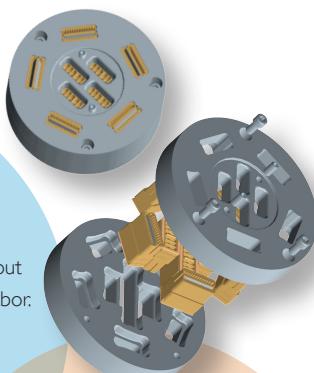
redefining the compressor valve



is an innovative and pioneering development in redefining the performance efficiency and service of a reciprocating compressor valve.

This revolutionary concept has evolved and developed the technology of a straight through flowpath which reduces compressor power and increases throughput. This in turn also reduces the environmental impact with lower fuel consumption, emissions, carbon footprint and waste... creating a 'greener' valve.

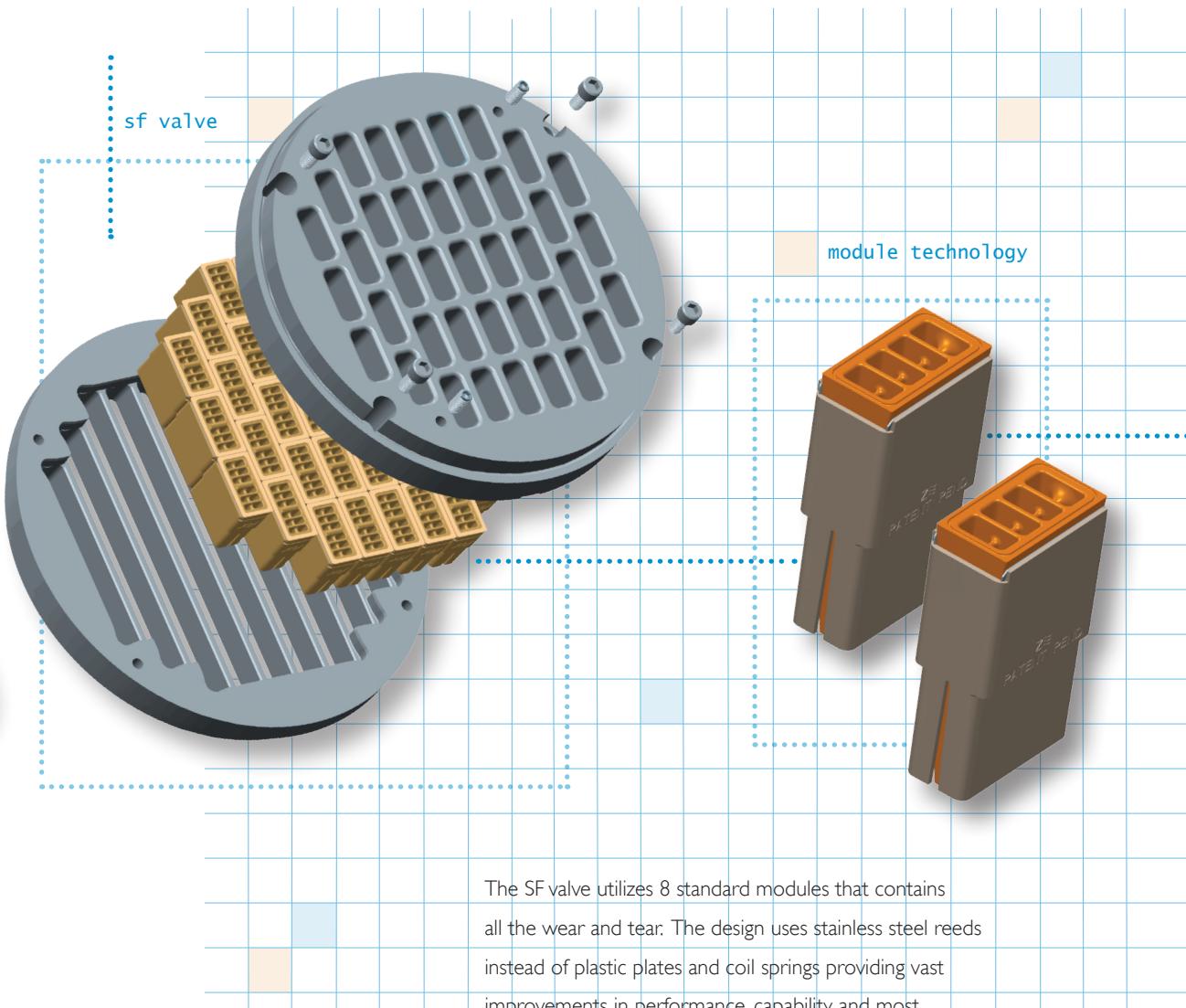
sfvalve-concentric



The seat and carrier never needs to be machined or replaced.

The sf valve allows for easy servicing in a matter of minutes - on site, and without the need for special tooling or skilled labor. When conditions change considerably, there is no need for new valves, simply change out the modules to those optimum for the new operating conditions or application.

- Inventory: Reduced by 75%
- Reliability: 2x service interval (25% guaranteed), high speed capability
- 10% reduction (5% guaranteed) in compressor power or increased gas throughput

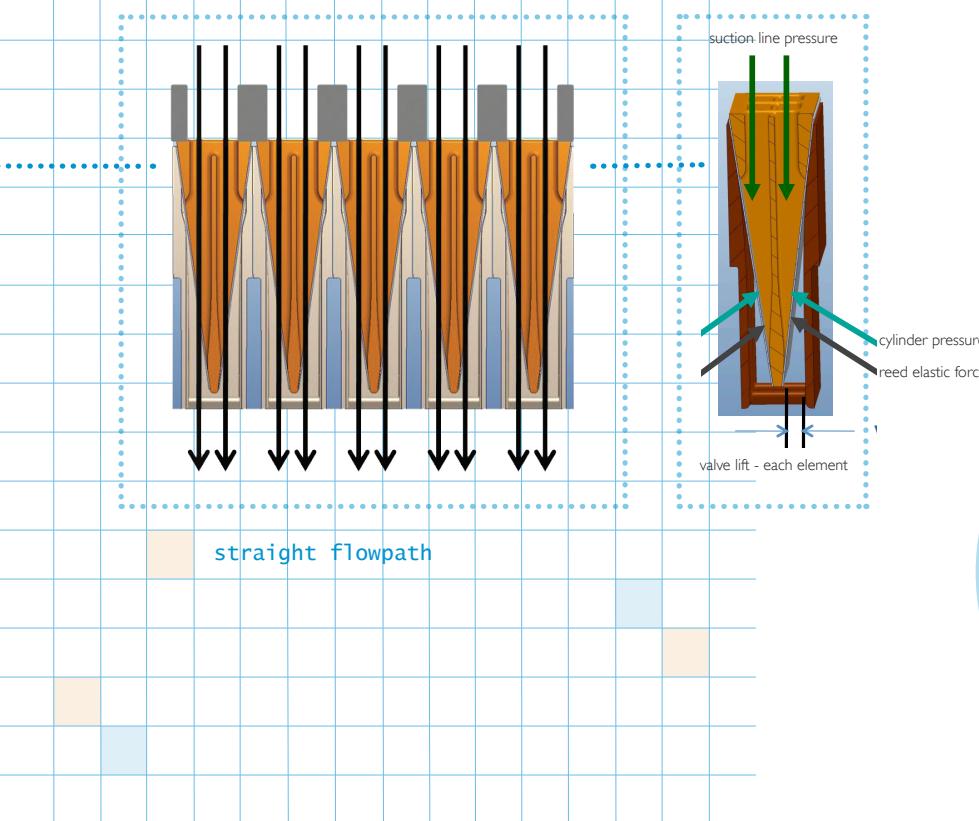


The SF valve utilizes 8 standard modules that contains all the wear and tear. The design uses stainless steel reeds instead of plastic plates and coil springs providing vast improvements in performance, capability and most importantly reliability.

Modules are interchangeable and are independent of cylinder brand, stage or suction/discharge location.

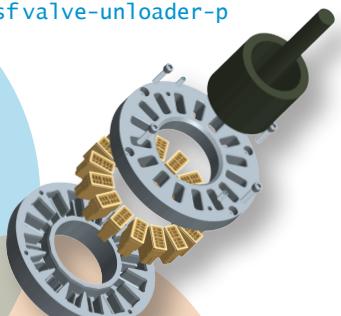
There is no need to send valves for servicing or replacing with completely new units. The SF valve never needs the seat or carrier to be machined or replaced. Simple, easy servicing is achieved in a matter of minutes - on site, and without the need for special tooling or skills.

Effectively, minimizing downtime, dramatically reducing inventory, minimizing operating costs and ultimately maximizing productivity.



The sf valve has a straight through flow path reducing compressor power and/or increasing throughput. This also reduces emissions, fuel consumption, carbon footprint and waste.

sfvalve-unloader-p



- Self cleaning - best solution for gas gathering. Tolerant to liquids and solids
- Drop-in replacement for existing size valves, low to high speed, valves in all existing cylinders

Brief overview

- Drop-in replacement for conventional valves 1.5" to 14"+ diameter
- 350 rpm to 3600+ rpm
- 2250 psi DP max
- -40 to 550 F temperature
- Enables new designs and applications

Applications and Markets

- Natural gas - production, gathering, transmission, storage and distribution
- Shale gas, acid gas, CNG
- CO2 - carbon storage and sequestration, enhanced oil recovery
- Multi-phase compression, including LNG and Ammonia
- Air, air separation, technical gases, process gas
- Off shore, FPSO, remote locations

sfvalve-rectangular



The sf valve utilizes standard modules that contain all the wear and tear within itself. Flow is increased and enhanced by the Petal design with no moving plastic components, no springs, proven high speed design. Enhanced stainless steel reed design with low losses, high reliability, optimized for each application.

- The design makes the valve self cleaning and very tolerant to liquids and solids in the flow stream
- Modules are interchangeable and are independent of cylinder brand, stage or suction/discharge location
- Modules cover the requirements of most applications





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