

StraightFlo™ SS

COMPRESSOR VALVES

StraightFlo™ SS (Severe Service) compressor valves provide unmatched reliability, efficiency, serviceability, and savings in the most demanding downstream refinery and petrochemical applications.

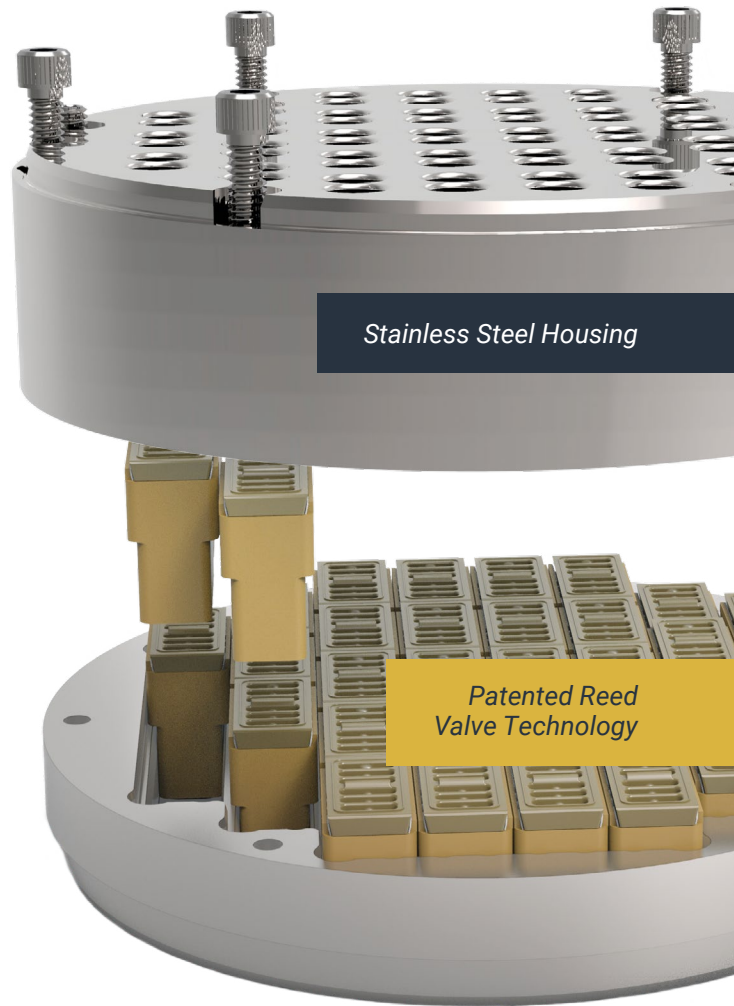
The StraightFlo™ SS is a drop-in replacement for OEM valves in reciprocating compressors operating at speeds from 200 to 3,600+ rpm, pressure differentials up to 4,350 psi (300 bar), and service temperatures from -40° to 500°F (-40° to 260°C).

Manufactured with durable stainless steel housings, StraightFlo™ SS valves provide reliable performance with highly corrosive gases encountered in refining, petrochemical, chemical, and fertilizer applications.

PARADIGM-SHIFTING ADVANTAGES

The patented design features interchangeable, enhanced reed valve modules held stationary between the valve seat and carrier. Components do not move or impact the metal housings, so normal wear-and-tear is completely contained inside the modules.

Modules have a straight-through flow path. Since gas doesn't travel a tortuous path, StraightFlo™ valves have the lowest losses (highest efficiency) for a given diameter.



GAME CHANGING PERFORMANCE



RELIABILITY
5X–35X longer service interval (2X guaranteed)



SERVICEABILITY
15 minutes, on-site, with no machining



PERFORMANCE
2–15% lower compressor power or greater throughput



INVENTORY SAVINGS
Up to 80% lower inventory costs



ESG
Reduced emissions, fuel efficiency, 10X Lower vibration/noise levels

UPGRADE PERFORMANCE & SAVINGS

StraightFlo™ SS valves offer opportunities for meaningful improvements in your operational, financial, and ESG metrics.

INCREASE OPERATIONAL RELIABILITY

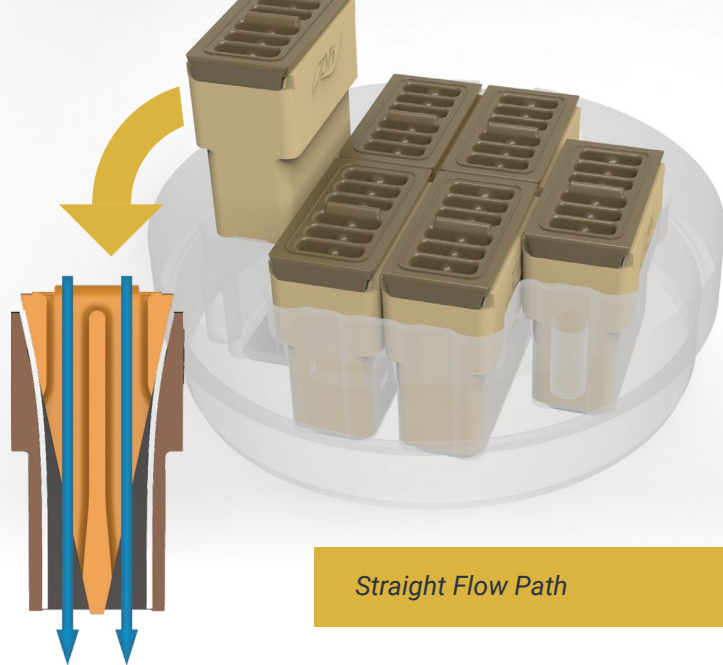
Robust design makes StraightFlo™ SS valves more durable in operation and more tolerant of liquids and debris. They routinely transform service intervals of weeks or months into multi-year run times.

- 5X – 35X longer MTBF; 2X guaranteed
- 2 – 15% increased throughput or reduced power requirements
- Faster, on-site refurbishing with no machining
- 5-year limited warranty on complete valves for slow-speed applications
- 3-year limited warranty on complete valves for refinery H₂ applications.
- 10-year limited warranty on the stainless steel housings

IMPROVE PROFITABILITY

With longer run times, higher performance, and valves that are less costly to inventory and service, StraightFlo™ SS valves reduce your life cycle costs and boost revenue.

- Increased revenue from extended run times
- Up to 15% power cost reduction or throughput increase
- Less frequent, less costly maintenance
- Up to 80% reduction in inventory costs



ENHANCE SUSTAINABILITY

StraightFlo™ valves provide a wide range of benefits to support your net-zero initiatives.

- Up to 15% emissions reduction
- Up to 15% lower power consumption
- Elimination of multiple blowdown, purging, and flaring events
- 10X less vibration
- 6-8 dB lower noise levels
- Lower carbon footprint from fewer service call-outs
- Reduced energy and materials waste by eliminating valve machining

THE RIGHT MATERIALS FOR THE JOB

Three material grades: Mat-N, Mat-M and Mat-X, depending on chemical resistance requirements, pressure, and temperature

Valve housings made of stainless steel with electroless nickel plating (only on the seat for Mat-N and Mat-M, and over the entire housing for Mat-X)

Mat-N and Mat-M material are commonly applied in upstream applications where there is a high percentage of CO₂

Mat-X is commonly applied in upstream applications where there is H₂S and CO₂, including acid gas applications