

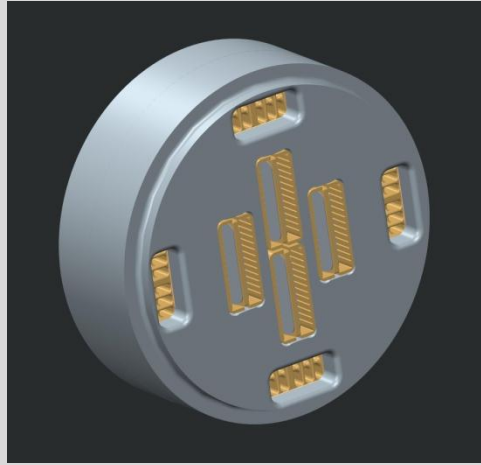
# THE GAME CHANGER

INTRODUCING THE STRAIGHTFLO VALVE (SF) FOR RECIPROCATING GAS COMPRESSORS.

REDEFINE YOUR EXPECTATIONS IN PERFORMANCE, RELIABILITY, SERVICEABILITY, AND TOTAL COST OF OPERATION.



SF suction valve



SF Concentric valve



SF Plug style unloader valve

## SF VALVES PUT THE *PERFORM* IN *PERFORMANCE*

- **Pioneering design** – no machining of seat or carrier; wear contained in standard modules that enable a 2x improvement in service interval; service turnaround times of 5-15 minutes per valve on site.
- **Energy efficient** – straight through flow path with low losses.
- **Reliability through design** – enhanced Petal design with no moving plastic components, no helical coil springs, proven high speed design, and the highest tolerance to liquids and foreign particles in the gas stream.
- **Flow increase** resulting in increased revenue.
- **Operating cost reduction** - power (and fuel) savings of 5-15%; reduce typical inventory levels by >80%; lowest service, labor, and material costs.
- **Reduce environmental impact** with lowered fuel consumption, emissions and carbon footprint. Reduction in waste.
- **Maximize profits** - Maximize productivity. Minimize downtime, inventory, capital cost, and total cost of ownership.

## THE SF VALVES OFFER\*

- Guaranteed reduction in valve losses of at least 20% for compressors running at over 950 rpm.
- Guaranteed at least 25% improvement in service intervals
- 1 year limited warranty on seat and carrier.....

.... or your money back.

SFs are optimized for your application using Zahroof Valves Inc's **Dynamic Valve Analysis Program**.

## HOUSTON

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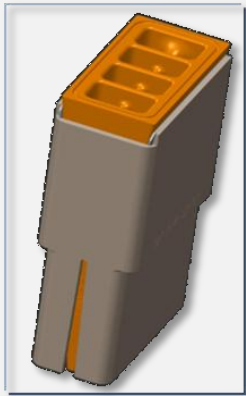
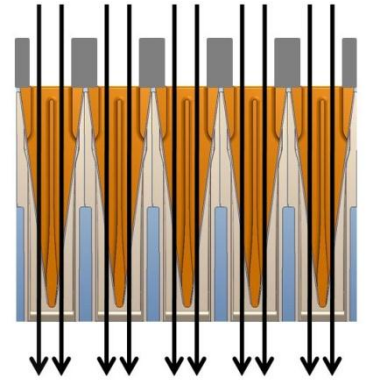
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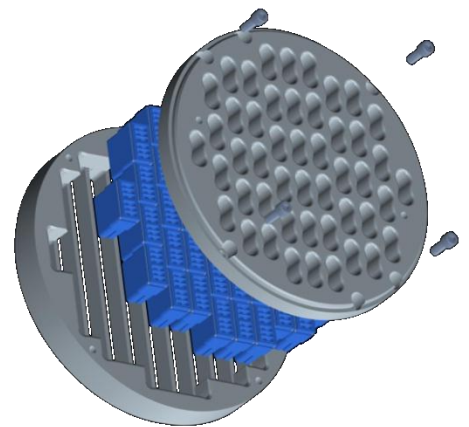
## THE STRAIGHTFLO VALVE (SF) IS A UNIQUE, PATENT PROTECTED VALVE THAT DELIVERS PERFORMANCE IMPROVEMENTS NEVER BEFORE SEEN IN THE INDUSTRY.

The **SF** has a straight through flow path reducing compressor power and/or increasing throughput. Reduce emissions with lower fuel consumption. The design makes the valve self-cleaning and very tolerant to liquids and solids in the flow stream. With **PERFORMANCE**, you can recover the cost of your valve in a matter of weeks.



The **SF** utilizes standard modules that contain all the wear and tear within itself. Modules can be replaced easily in the field by hand. The seat and carrier never needs to be machined or replaced. The SF allows for easy servicing in a matter of minutes – on site, and without the need for special tooling or skilled labor.

8 standard **SF** module types cover the requirement of most applications. Modules are interchangeable and are independent of cylinder brand, stage or suction/discharge location. Stop stocking complete assembled valves; stock modules and reduce inventory by 80%.



- The SFs are drop-in replacement for existing valves, 2 inches to 14 plus inches in diameter.
- 300 – 3600 rpm, 2250 psi pressure differential across the valve, -40 to 550F continuous operating temperature.
- Applications include: Natural gas (sour and sweet), CNG, LNG, Ammonia, CO2, H2, Air, N2, Acid gas, Cl2, multi-phase compression.
- Also available now for plug style unloaders.

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