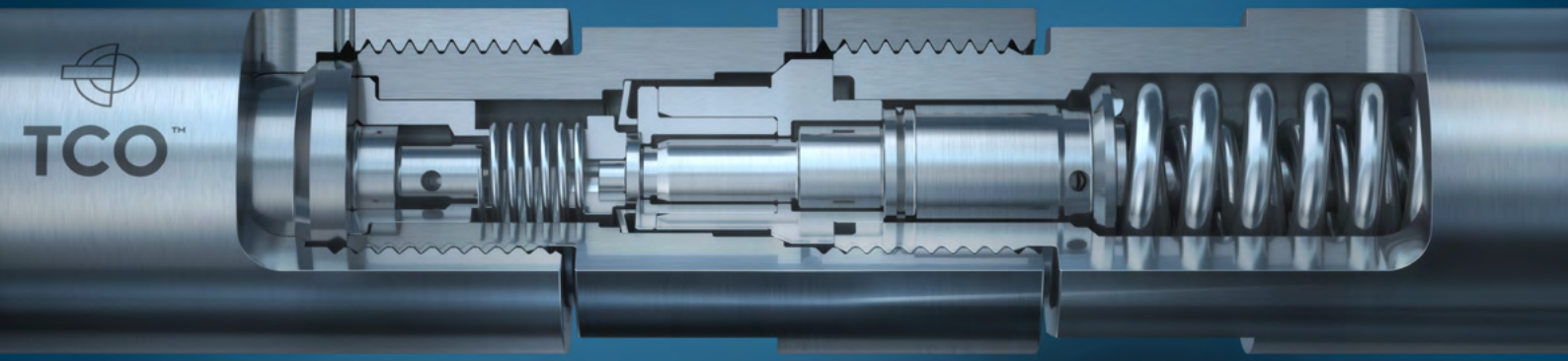
TCO™ Redefining Well Solutions

FN Valve

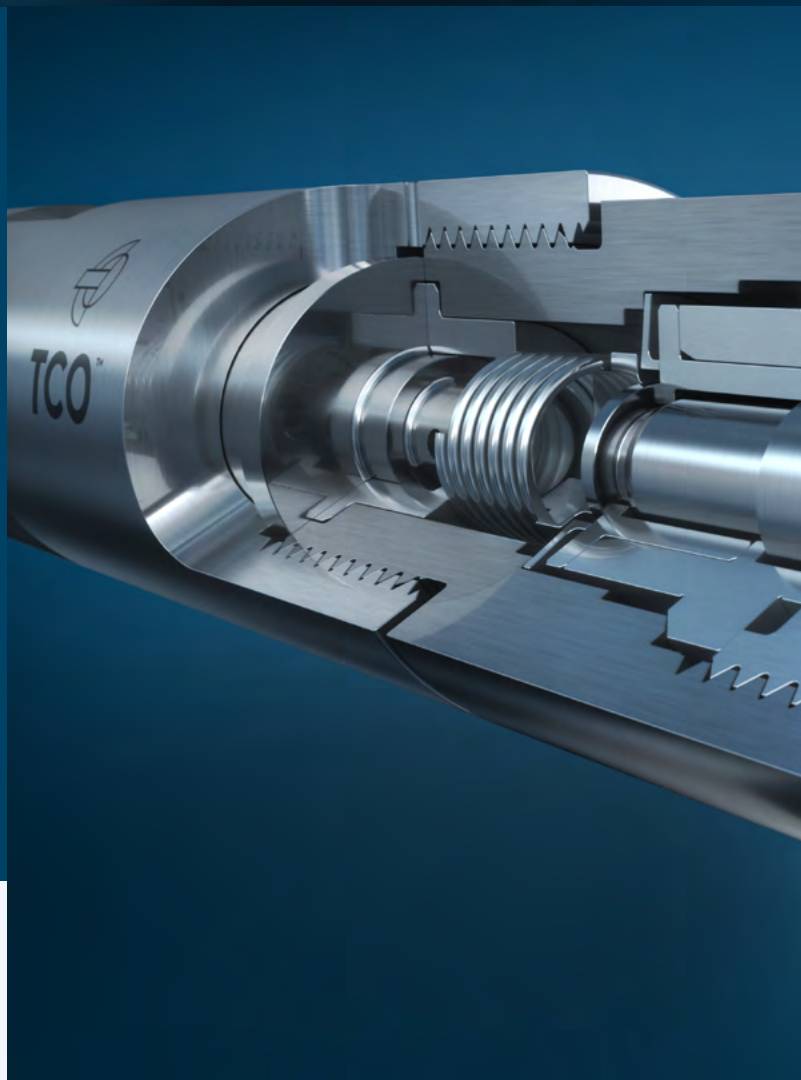


Product Description

The TCO FN-Series Chemical Injection System provides a reliable solution for chemical delivery in deepwater, and ESP wells, specifically engineered to mitigate risks associated with the U-tube effect. This system features a differential pressure valve that provides a closing force proportional to inlet pressure, effectively preventing unintended siphoning of chemicals into the wellbore. It is API 19CI CV1 & TR2385 validated, ensuring compliance with stringent industry standards.

The FN valve maintains a leak-tight seal even in static conditions, making it ideal for wells where chemical flow is intermittent or minimal. Constructed from corrosion-resistant materials and integrated with high integrity metal-to-metal barrier HN checks, the FN system enhances well integrity, reduces the risk of chemical degradation, and supports both tubing and annulus injection configurations.

Its robust design makes it particularly well-suited for offshore wells, artificial lift systems, and depleted reservoirs, where long-term reliability and minimal intervention are critical.



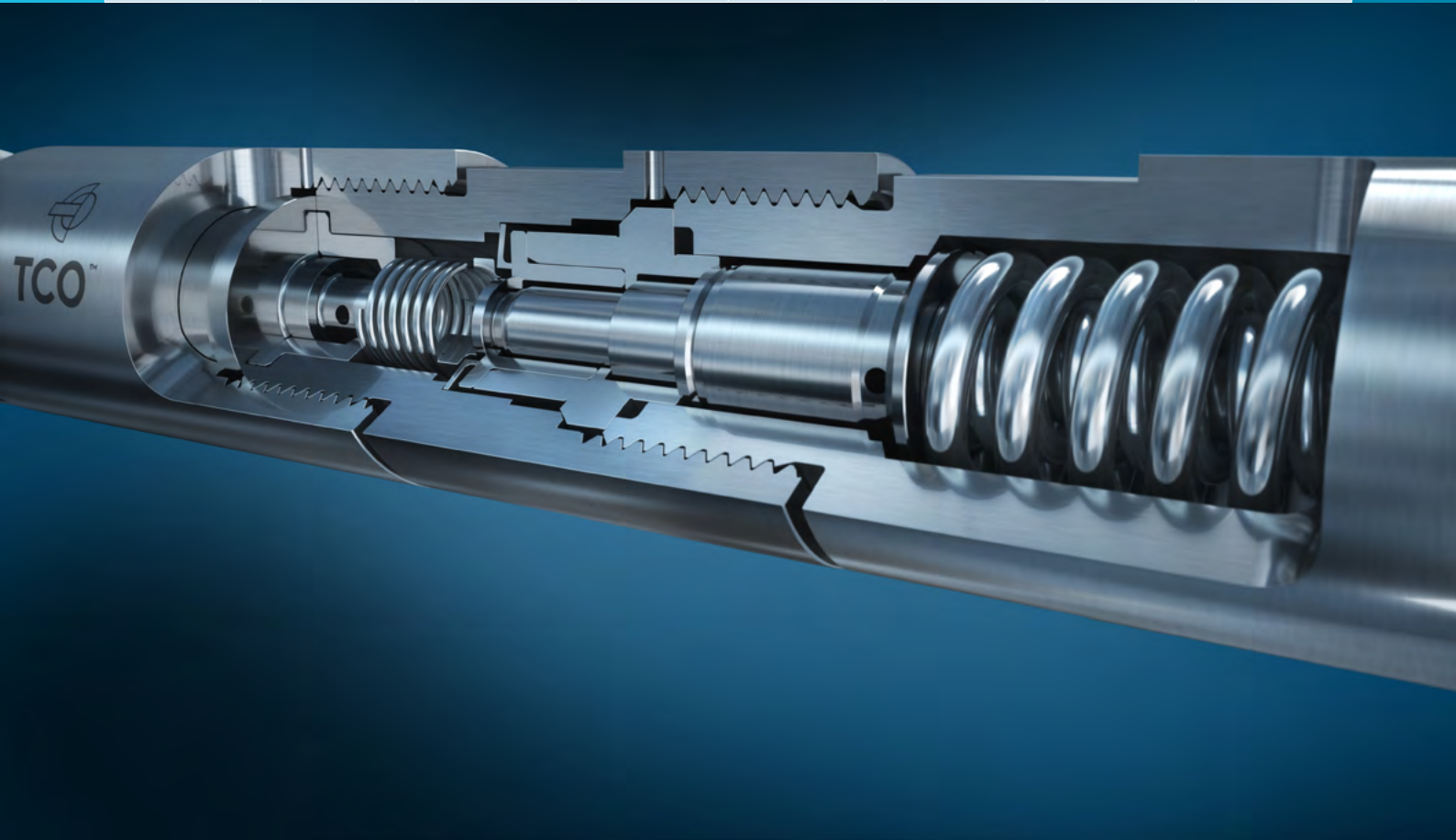
TCO™ Redefining Well Solutions

FN Valve

Features & Benefits

- Passive-open U-tube design
- Self-activating u-tube regulation
- API 19CI CV1 validated
- Rated for HPHT
- Prevents chemical siphoning
- Optimized for late-life production
- Maintains chemical efficiency
- Enhanced flow assurance

Applications

- Deep downhole applications
- Artificial lift installations
- Deep-set chemical injection
- High pressure and high temperature
- Remote or unmanned operations

Product Type	OD	Pressure rating	Temp.	Material	Back Pressure	Flow Rate	ISO 14998
FN	1''	690bar/10 000psi	150degC	Inc 625/825	500–5000 psi	24–1200L/d	V0 TR2385 API 19CI CV1
FN HPHT	1''	1035bar/15 000psi	182,2degC	Inc 718	500–1000 psi	14,4–272,6L/d	V0 TR2385 API 19CI CV1