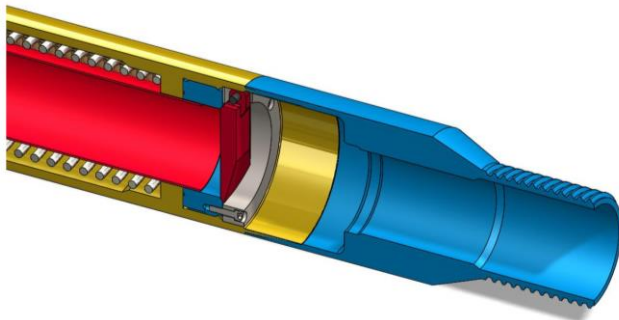


Downhole Steam Injection Valve (DSIV) and Extreme Temperature Safety Valve (ETSV)



Features & Benefits:

- For use in steam injection (DSIV) or extreme high temperature production wells (ETSV)
- Tubing run design for reduced operational costs and increased reliability due to lack of seal bore degradation
- Applications for steamflood recovery and steam assisted gravity drainage (SAGD)
- Proprietary surface controlled design incorporating features to prolong control fluid life
- Full metal to metal seals throughout
- Premium corrosion resistant materials
- Designed for 9-5/8" vacuum insulated tubing and 13-3/8" production casing
- Standard installation and running procedures
- Expected valve completion Q3 2019 including API 14A certification

Specifications:

Tool working pressure rating:	5000 psi / 345 bar
Make up length:	7ft / 2.13m
Outside diameter:	10.75" / 273mm
Inside diameter:	5.45" / 138.4mm
Weight:	750lbs / 340kg
Design setting depth:	300 to 1000ft / 91 to 305m
Design temperature rating:	343°C / 650°F
Design flow rates:	36,000 bcwe/day
Connections:	Customer specified

