

GUARDPRO™--SAFETY VALVE

TUBING RETRIEVABLE SCSSV



The CNPCUSA GUARDPRO™ tubing retrievable safety valves are rated for up to 25,000 psi [175MPa] working pressure and setting depths up to 2,000 ft [610 m]. They are available with premium piston hydraulic control line isolation and through-flapper, self-equalizing features. FlowGATE™ valves are also available in ‘slimline’ and curved flapper configurations for your most space-challenging completion strategies.

The design approach for the GUARDPRO™ safety valves was to remove as many hydraulic control system and flapper bypass leakage paths as possible to increase the operational reliability of the valves. The resulting design has set the benchmark for the fewest hydraulic system and shut-in bypass leakage paths as well as total number of valve components in the industry. We have used our +100 years of combined experience to provide the best safety valve design ever executed.

In the unlikely event that the SCSSV requires remediation, the Lock Open Tool (LOT) will permanently lock the flow tube in the ‘open’ position allowing for ‘full-bore’ thru-tubing operations. Once the CPCUSA novel Communication Tool (COM) has been used to perforate the hydraulic piston bore, the KRONOS™ wireline retrievable safety valve is ready for the installation.



APPLICATIONS

- Production or Injection Operations
- Sweet to Severely Sour Environment
- Temperatures up to 400 Deg.F
- Choice of metallurgy, NACE MR0175 materials

FEATURES & BENEFITS

- API-14A V1 Qualified
- Non-Elastomeric Seals
- All Metal-to-Metal Seal Body Joint Connections.
- Validated to API-14A, Validation Grade V1
- Polished Bore Size Flexibility
- CRA Materials
- Premium Threads
- Designed, manufactured, assembled and tested per API standard in USA

SPECIFICATION

Tubing Size inch (mm)	OD inch (mm)	ID inch (mm)	Fail Safety Setting Depth ft(m)	Pressure psi (MPa)	Temperature Deg.F
2-3/8(60.3)	3.625(92)	1.875(47.6)	2000[690]	10,000(70)	400F
2-7/8(73)	5.07(128.8)	2.312(58.7)	2000[690]	10,000(70)	400F
3-1/2	5.70(145)	2.75(70)	2000[690]	20,000(140)	400F
3-1/2	5.70(145)	2.375(60.3)	2000[690]	25,000(175)	400F
4-1/2	5.70(145)	2.75(70)	2000[690]	20,000(140)	400F
4-1/2	5.70(145)	2.375(60.3)	2000[690]	25,000(175)	400F
5-1/2	8.50(215.9)	4.562(115.8)	2000[690]	10,000(70)	400F
7(177.8)	9.718(246.8)	6.000(152.4)	2000[690]	10,000(70)	400F