

Applications:

- Damaged existing TRSV polished bores
- Subsurface controlled safety valve operations
- Wireline insert safety valve conveyance
- Working pressure up to 5,000 psi [345 bar]
- Temperatures up to 250°F [121°C]

Benefits:

- Least expensive and most flexible option for adding injection well protection in existing wells without lock profiles

Features:

- Validated to API-14L -V1
- Conventional setting and pulling tools
- Large internal flow diameter

Description

The Tejas FlexGARD™ is a wireline deployed, insert safety valve conveyance system that allows the operator to “bridge” or “straddle” over *damaged* tubing retrievable safety valve polished bores while anchoring and sealing within the production tubing.

The FlexGARD™ is easily deployed with standard setting tools (E4-style, or equivalent) and locates on the no-go shoulder within the existing tubing retrievable safety valve. Once set, the dual elements provide wellbore pressure integrity as well as hydraulic control isolation for the wireline insert safety valve. The proven, retractable “cone-less” slips anchor the system to the production tubing above the tubing retrievable safety valve. The FlexGARD™ can be recovered easily with standard wireline internal fishing tools (GS-type, or equivalent) for re-dress and re-run, if required.

The FlexGARD™ can operate up to temperatures of 250°F [121°C] and is designed withstand hydraulic actuation pressures of 10,000 psi [690 bar] and wellbore pressure differentials up to 5,000 psi [345 bar]. Please contact the Engineering Department at Tejas Research & Engineering with any questions, or special material requirements for your application.

FlexGARD™ System Specification†			
Tubing Size in [mm]	Weight lb/ft [kg/m]	Min ID in [mm]	Pressure Rating psi [bar]
2.875 [73.02]	6.4-6.5 [9.52-9.67]	1.250 [59.26]	5,000 [345]
3.500 [88.90]	9.2-9.3 [13.69-13.84]	1.625 [41.27]	
4.500 [114.30]	12.6-15.2 [18.75-22.62]	2.500 [63.50]	

† The engineering data provided illustrate the scope of this product offering and are not all inclusive. Additional sizes and functionality are available upon request.

