

# TCV Series - Tubing Check Valves

Flow Control Devices



## Applications:

- Up to 2,000 ft setting depth
- Up to 5,000 psi tubing shut-in pressure
- Sweet to severely corrosive environments

## Benefits:

- Promotes wellbore stability
- Minimizes loss of completion fluid to the formation
- Eliminates need for formation-damaging loss-containment pills
- Reduces rig time
- Prevents liquid fall back and protects the formation when pumping is interrupted

## Features:

- Field proven design
- Easy operation
- Severe service construction available upon request

## Description:

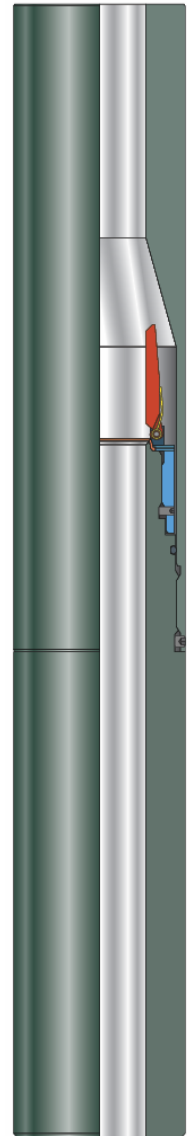
The Tejas TCV Tubing Check Valve is a mechanical, fluid-loss-prevention device typically used in sand-control and artificial lift completions. Placing the valve in the production string eliminates the need for spotting potentially damaging fluid-loss-control materials after pulling the gravel pack (GP) service tool from the GP packer assembly.

The TCV is normally closed and constructed with a large bore flapper providing a positive seal in the tubing. In electric submersible pump (ESP) or rod pump applications the TCV automatically opens in response to reservoir fluid inflow when pumping is initiated. When used in artificial lift applications the valve prevents liquid fall back when pumping is interrupted.

In ESP applications the TCV large bore flapper valve can be used to provide redundancy in back-flow prevention and prevent potentially damaging liquid all back and pump reversal due to liquid flowing back down through the pump.

When used in rod pump applications the TCV must be run below the rod pump and serves as a back-up to or substitute for the rod pump standing valve.

The TCV large bore flapper valve does not use a frangible flapper, as is the case with some gravel pack equipment manufacturer's models. The Tejas TCV flapper is not designed to be easily broken.



TCV  
Open Position



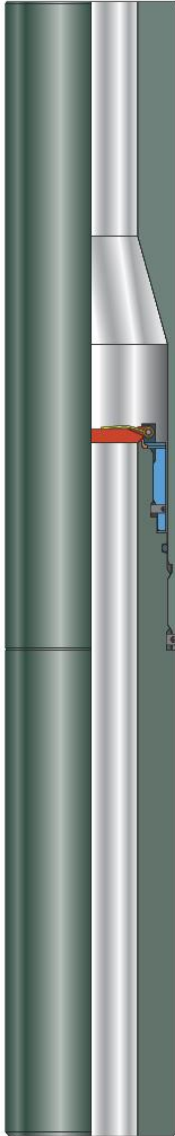
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## Engineering Data<sup>†</sup>:



TCV  
Closed Position

Tubing Size in [mm]	Max OD in [mm]	Min ID in [mm]	Overall Length in [mm]	Working Pressure psi [kPa]
2.875 [73]	4.375 [111]	2.000 [51]	24.5 [622]	5,000 [34,474]
4.500 [114]	5.670 [144]	3.000 [76]	27 [686]	5,000 [34,474]
5.500 [140]	7.930 [201]	4.000 [102]	29.5 [749]	5,000 [34,474]

<sup>™</sup> The Tejas logo is a trademark of Tejas Research a& Engineering LLC

<sup>†</sup> The engineering data provided illustrate the scope of this product offering and are not all inclusive. Additional sizes and pressure ratings are available upon request.

Direct request for quotations to: [product.sales@tejasre.com](mailto:product.sales@tejasre.com)

