



The QFlux Inject Bypass Valve is an outflow control device that is used for injection or stimulation treatments for wells that are equipped with inflow control technology.

### Injection Bypass Valve

In a horizontal well, with water and gas influx issues, the Autonomous Inflow Control Valves AICV® can provide significant increase in oil production and recovery. The check valve function of the AICV® allows for an effective circulation of completion fluids during deployment and fluid displacements during well clean-up without an inner string/washpipe, but limits injection rates.

In order to allow for injection fluids or stimulation fluids to pass the AICV®, the AICV® unit can be equipped with the QFlux Inject Bypass Valve. This injection valve allows for higher flow rates to be injected than technically possible with the standard AICV® and allows for operational well control.

The QFlux Inject Bypass Valve is deployed within the AICV housing. This can be one or multiple valves per unit or per zone, depending on the flow rate required.

The valves can be preset to open at a specific differential pressure still allowing for circulation and displacement during deployment. Different valve sizes can be selected to create an outflow profile or minimize pressure loss and maximize flowrate.

The QFlux Inject Bypass Valve is designed for a wide range of fluids and acids.

### Customized design

The design is customized to your demands.

- Different valve sizes
- Robust proven check valve design
- Customized outflow modeling based on analyses of well data.
- Material grades: A825/Duplex - Ceramics
- Opening pressure 50 - 300 psi
- Differential pressure 10 - 2000 psi
- Flow rate 0 - 4 barrel/minute
- Fits all ICD and AICV screen sizes

### Features

The QFlux design provides:

- Allows for free injection with AICV completions
- Allows for well control with AICV completions
- Closed during AICV production mode
- Robust proven check valve design.
- A specific flow rate and pressure drop by altering valve size and number
- Up to 6 valves per unit
- No protrusion into the base pipe ID

