

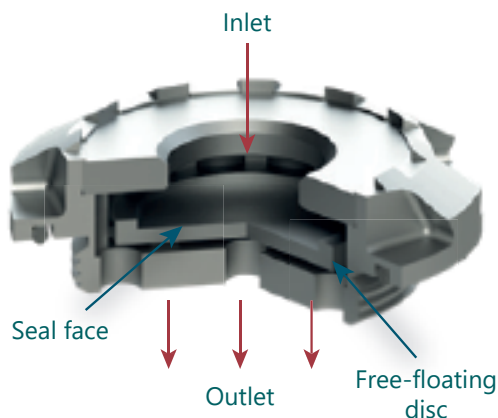
FloCheck Production

Check valve preventing crossflow into lower pressure zones

FloCheck Production provides a high-rate check valve functionality for multi-zone producers with differentially depleted reservoirs. Mounted within a sand screen and compatible with gravel packing operations, FloCheck Production allows prevention of crossflow into lower pressured zones.

The multi-zone well is completed with an open-hole or cased-hole gravel pack completion using multiple FloCheck Production valves mounted into each screen section. FloCheck Production has a large inlet and free-floating disc that is pushed away from the inlet during flow in the production direction but will seal against the inlet if the flow is reversed. The valve will remain closed while an over-balance pressure is being exerted. Once the over-balance is removed, either by placing the well on production or following sufficient depletion of the higher-pressure zone, the free-floating disc will be pushed away from the seat by production from the lower pressure zone.

FloCheck Production was initially developed and qualified for high-rate gas wells but can be applied to any new or existing producer well where crossflow issues arise.



FloCheck Production

Features

- Available in any size ranging 1.5mm-13mm
- Ability to prevent backflow even after flowing an erosive slurry at high rates through the valve (gravel packing)
- 200bar (2900psi) burst pressure

Benefits

- Prevents crossflow in multi-zone completions
- Multi-valve functionality



Free-floating 'non levitating' disc