

### Product

The Spir-O-Lizer® 'Passive Angled Four Blade' is a die-cast zinc alloy, solid blade centralizer that has been specifically designed for sand control / gravel pack applications. A four bladed unit c/w reduced blade angle to maximize flow area, minimize back pressure and potential pack-off.

### Features

- Positive standoff protects screen jackets from damage while running in through the wellbore and greatly assists with hole clean-up
- Fluid by-pass has been maximized to eliminate pack-off during clean-up and gravel pumping operations
- Manufactured from zinc alloy providing:
  - High strength – allowing thinner wall sections giving maximum flow-by
  - Exceptional wear resistance – maximum standoff
  - Low coefficient friction – reducing torque & drag
  - Withstands temperatures up to 400°F
- Maximum torque & drag reduction

### Options

- Centralizer placement / T&D analysis available
- Split unit available
- Size range from 4-1/2" – 7"