



The QFlux DPNA is a nozzle type inflow and outflow control device (ICD), used for production, injection or stimulation in extended reach horizontal wells (ERD) that need to be completed with inflow control technology to maintain and balance the pressure profile along the horizontal length.

### Dissolvable Plugged Nozzle Assembly

Any ICD liner deployed in extremely long laterals requires a significant amount of time displacing the Reservoir Drilling Fluids (RDF) to an aqueous completion brine or breaker and to clean up the well. The QFlux DPNA nozzles eliminate the requirement of a dedicated inner string and allow for displacement to be performed with the liner running string, enabling the operator to save several days rig time.

The holes in the QFlux nozzles are temporarily plugged during deployment and open-hole displacement allowing for circulation through the shoe. The plugs are composed of a specifically formulated polymer which will dissolve in a water-based fluid, brine or breaker system. The dissolving time is designed and customized based on temperatures, pressures and fluids. The dissolution of the plugs provides an interventionless opening of the nozzles, where after they are ready for production and stimulation.

The QFlux dissolvable plugged nozzles can be deployed on a liner for just stimulation or injection. The plugged nozzles can be used as a normal QFlux ICD in combination with a sand control screen or debris filter for production. The DPNA nozzles can also be used as in the SelectFlux on/off ICD avoiding a trip for opening the sleeves (SSD).

### Benefits

The QFlux DPNA design provides:

- Time and cost savings
- Ability to wash to TD
- Less fluid losses to formation
- Effective wellbore cleaning.
- Improved breaker coverage
- Reduced formation damage

### Customized design

The design is customized to your demands.

- Different nozzle diameters  
2,5 / 3,0 / 4,0 / 5,0 / 6,0 mm
- Engineered dissolution times  
From 5 to 25 days
- Material grades: A825/A718/Duplex
- Differential pressure 3000 psi
- Temperature range 150 - 225 F
- Fits all ICD and AICV screen sizes

