

The Echo DC multistage fracturing system is a hydraulic fracturing cartridge and sleeve system designed for open hole or cemented completions. Each sleeve is opened by pumping a selective cartridge down to the matching profiles in the sleeves. The cartridges are fully dissolvable post fracturing, requiring no further intervention. This system provides full bore access before and after fracturing operations, allowing higher pump rates and well flow at full potential, without ball seat restriction or milling operations.

The key feature of the Echo DC multistage fracturing system is the increased efficiency of combining the full-bore benefits of a plug and perf system with the speed of a ball drop completion while eliminating the requirement for post fracturing intervention.

Features and Benefits

- Interventionless system
- Pump down seat / sleeve multistage fracturing system
- Keys on sleeve engage matching profile in cartridge
- Full bore liner for high rate fracturing operations
- Reduced conveyance time
- Fully dissolvable
- No milling required
- Increased stage density
- 54 unique stages available
- All stages have the same differential rating
- 10,000 psi (68 MPa) pressure rating (thread dependent)

| Specifications | | | | | |
|----------------|----------------|-----------------|----------------|----------------|------------------------------|
| Size | Weight | Max. Body O.D. | Max. Seat I.D. | Ball Size | Differential Pressure Rating |
| in mm | lb/ft kg/m | in mm | in mm | in mm | psi kPa |
| 4-1/2 114.3 | 15.10 22.47 | 5.900 149.86 | 2.000 50.80 | 2.750 69.85 | 10,000 68,948 |
| 5-1/2 114.3 | 23.00 34.23 | 7.000 177.80 | 2.750 69.85 | 3.500 88.90 | |

