



## FEATURES & BENEFITS

- Open-hole vertical, horizontal and deviated wells for:
- Carbonate, sandstone and shale play stimulation
- Matrix acidizing treatment isolation
- Multistage fracturing zone isolation
- Field adjustable closing pressure of 2,000 PSI once system reached TD initiated by ball drop
- Protection of internal components while run in-hole
- Valves rated to 10,000 PSI and 350°F
- Positive sleeve closure -eliminates need for positive ball seat after closure.
- Positive seal on closure allows for hydraulic tool set and/or manipulation

## PRO-FRAC

### Activation Sub

Pro-ESI's ProFrac Activation Sub flow through circulation valve is used for shutting off circulation and allowing pressurization of the work string. While RIH the ProFrac Activation Sub allows high rate circulation to clean out tight spots in the wellbore.

Once the completion in landed, a ball is dropped from surface to the ball seat. Pressure is applied, permanently closing the circulation valve. Hydraulically set packers can then be pressurized for setting.



#### DIMENSIONAL SPECIFICATIONS

Size in (mm)	4.5 (114.3)
Max OD, in (mm)	5.05 (128.3)
Length, ft (m)	2.8 (0.85)
Flow area in <sup>2</sup> (cm <sup>2</sup> )	1.75 (11.29)
Max Burst Pressure rating, psi (kPa)	10,000 (68,948)
Temperature Rating, °F (°C)	350 (177)
Closing Pressure, psi (Kpa)	2,000 (13,789)
Body Tensile Strength, lbf(kN)	300,000 (1334)