



## FAST FILL™

### INNOVATION REVEALED

The Magnum Fast Fill™ is run in conjunction with the Single, Dual or Interventionless MagnumDisk™ Subs. It can also be used for TCP operations to auto-fill the work string as it is deployed into the wellbore. Its design allows well bore fluid to enter the work string from the annulus, and at a predetermined hydrostatic pressure, the tool automatically closes, isolating the work string to the annulus.

### Features

- Fills work string from bottom during deployment
- Eliminates need to pause and fill work string from above
- Accurate to plus or minus 2% absolute pressure value
- Simple, safe and reliable
- Full-bore opening
- Multiple shear value settings
- Available with premium threads and material
- Can be run in hostile environments (H2S and CO2)

### OPERATION

The Fast Fill™ allows well bore fluid to enter through its ports as the work string is deployed into the well. Once a predetermined hydrostatic pressure is reached, the rupture disk activates shifting the inner sleeve closed. The work string is then isolated from the annulus, allowing the customer to apply pump pressure to the work string to activate hydraulically activated tools in the BHA, such as a hydraulic-set packer, Interventionless MagnumDisk™ or TCP Firing Head. The Fast Fill™ Sub can also be closed by intervention using a Model B shifting tool.

Description inch (mm)	Tool O.D.* inch (mm)	Tool I.D. inch (mm)	Length inch (mm)	Max Pressure	Max Temperature
3-1/2 (88.9)	5.000 (127.0)	3.000 (76.2)	42.6 (1082.0)	10,000 psi (68.9 MPa)	400°F (204.4°C)
4-1/2 (114.3)	6.000 (152.4)	3.900 (99.1)	45.6 (1158.7)	10,000 psi (68.9 MPa)	400°F (204.4°C)

\*Tool OD Based on P110 Material  
FastFill™ Auto-Fill Subs are available with Box x Pin connections.  
Custom-sized FastFill™ Subs can be manufactured upon request.

For more information, and to find a representative near you, visit [nineenergyservice.com](http://nineenergyservice.com)