

# SplitFlow

## Split flow hydraulics

Bypass system has been used as a simple and reliable solution to various drilling problems, including lost circulation. SplitFlow analyzes the drilling hydraulics with bypass system present on drilling strings.

It calculates the flow split between sideway ports and downward ports and the overall hydraulics of different flow paths.

- Multiple wellbore intervals
- Up to 20 pipe sections
- Bypass tool location
- Tool joint effects
- Bingham plastic and power law fluids
- Flow split calculation
- Port size optimization
- MS Word report



| Wellbore | ID  | Flow Rate (GPM) | Pressure (PSI) | Velocity (ft/min) |
|----------|-----|-----------------|----------------|-------------------|
| 1        | 1.0 | 1000            | 1000           | 1000              |
| 2        | 2.0 | 500             | 500            | 500               |
| 3        | 3.0 | 500             | 500            | 500               |

| Port Size (in) | Flow Rate (GPM) | Pressure (PSI) |
|----------------|-----------------|----------------|
| 1.0            | 1000            | 1000           |
| 1.5            | 1500            | 1500           |
| 2.0            | 2000            | 2000           |

