



# Downhole Isolation (Deployment) Valve



The Downhole Isolation Valve (DIV) is run as an integral part of the well's casing string. The valve is a surface controllable valve, which opens to the full bore of the casing to allow passage of the drill bit while the drill string is tripped in or out of the hole. Operation of the valve is achieved through the application of pressure via a hydraulic control line run through the annular space between two casing strings.

The DIV is used whenever the drill string is retrieved from the well, or whenever surface pressure exists when deploying the drill string into the well. When it is necessary to pull the drill string out of the hole, the drill string is tripped out until the bit is above the DIV. The DIV is then closed, and pressure above the valve is bled off so that the drill string can be safely removed from the hole. The drill string can then be tripped back into the well until the bit is just above the DIV. The DIV is then reopened, and the drill string is run in to continue the drilling operation.

	DDV-245	DDV-178	DDV-178a
Size	245 mm / 9-5/8 inch	178 mm / 7 inch	178 mm / 7 inch
Max OD	310 mm / 12.2 inch	216 mm / 8.5 inch	210 mm / 8.27 inch
Min ID	220 mm / 8.65 inch	158 mm / 6.22 inch	152 mm / 6 inch
Length	2700 mm / 106.3 inch		
Sealing pressure	350 bar / 5076 psi		
Open/close pressure	7.5 bar / 110 psi		
No. of times open/close	Up to 75		
Burst strength	660 bar / 9702 psi	650 bar / 9555 psi	
Collapse resistance	610 bar / 8967 psi	430 bar / 6321 psi	
Tensile strength	6732 kN	3724 kN	
Max running depth	1000 m / 3281 ft		

**For more information: [www.D5energy.services](http://www.D5energy.services)**