

Downhole Safety Valve (DSV)

Expro's DSV is an annular pressure-activated ball valve and is designed to be used in cased-hole testing and perforating operations, where extreme hydrostatic pressures are encountered.

It is a single shot tool run in the ball open position. If required the ball can be closed by applying annulus pressure to burst a pre-selected high accuracy rupture disc.

Once closed, the ball will isolate well pressure. Though the ball cannot be re-opened, the valve has a pump-through feature to allow for bull-heading hydrocarbons to the formation below.

The DSV can be run in conjunction with other annular pressure operated downhole tools and is set up to operate accordingly.



Features and benefits

- Annulus operated.
- Single shot tool run with ball open.
- Activated by high-accuracy rupture disc.
- Once closed, isolates wellbore pressure.
- Pump-through feature for bull-heading kill fluids.

Applications

- 'Shoot & Pull' perforating including extreme high pressure wells.
- Drill stem testing including HPHT.
- Injection testing.
- Well stimulation.

Drill Stem Testing (DST)



Extreme Pressure Series

Technical specifications

Max. OD	5.00 in / 127 mm	
Min. ID	2.25 in / 57 mm	
Max. internal pressure	25,000 psi / 172 MPa	
Max. external pressure	32,800 psi / 226 MPa	
Max. differential pressure	15,000 psi / 103 MPa	
Max. differential across ball	15,000 psi / 103 MPa (from below)	
Temperature	350°F / 177°C (Std.)	400°F / 204°C (Prem.)
Approximate length	7.8 ft / 2.38 m	
Tensile rating	350,000 lbf / 155,688 daN	
Torque strength	10,000 ft-lbs / 13,550 N m	
Connections (Box x Pin)	3-1/2" IF or 3-1/2" PH6 available	
Rupture disk accuracy	+/- 2.5%	
Service	H ₂ S (NACE MR-01-75), CO ₂ , acid	