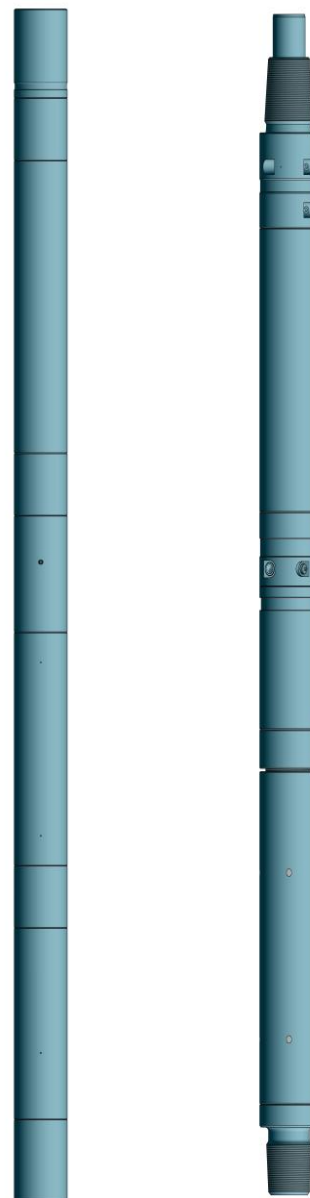


Multi-cycle Tester Valve (MTV)

Expro's MTV is an annulus-operated, continuous-cycle ball valve used for downhole shut-ins, and may be used where extreme hydrostatic pressures are encountered.

The bi-directional sealing ball can be functioned open and closed as many times as required. This tool incorporates a lock-open position (ball open with no applied annulus pressure), which enables the string to self-fill whilst running in hole. Wireline intervention work can be done without fear of the ball closing and optimise well kill procedures by allowing circulation at a point below the packer. A double closed position ensures the ball will not open during high rate reverse circulating operations, where high back pressures can be generated in the annulus.

The MTV can be operated once a reference pressure has been trapped in the tool. The tool is pre-charged with nitrogen at surface and annulus fluid enters the reference section via the annulus reference trap section (ARTS-B) whilst running in hole, which transmits hydrostatic pressure via a balanced piston in the nitrogen section. Once at depth and the packer set, the ARTS is activated by applying pressure to the annulus, thus trapping an operating reference pressure in the tool.



Triton Tester Valve

N2 Chamber/ARTS-B

Features and benefits

- Annulus operated.
- Fast acting.
- Unlimited number of cycles.
- Bi-directional ball sealing.
- Fail-safe position.
- Lock-open feature.
- Incorporates close-close sequence.

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	30,000 psi / 207 MPa	
Max. external pressure	30,000 psi / 207 MPa	
Max. differential pressure	15,000 psi / 103 MPa	
Max. differential across ball	15,000 psi / 103 MPa	
Max. ball opening differential	7,000 psi / 48 MPa (from above and below)	
Temperature	350°F / 177°C (Std.)	400°F / 204°C (Prem.)
Nom. cycle pressure	1,500 psi / 10 MPa	
Number of cycles	Unlimited	
Approximate length	30 ft / 9.14 m	
Tensile rating	340,000 lbf / 151,240 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	
Service	H2S (NACE MR-01-75), CO2, acid	

MTV/0001