#### SUBSURFACE BARRIER VALVES

# precision oiltools



### INTERVENTION-LESS PACKER VALVE

### good ideas made great

The intervention-less packer valve (IPV) is specifically designed to set hydraulic packers with and function as an ISO type 'A' valve, allowing tubing to fill automatically when RIH and provide fluid loss control when the tubing is static. When opened the valve will give positive indication of operation on surface due to the equalisation feature, without any wireline or balls.

When pressure is applied to test the tubing and/or set packers the IPV will hold pressure until a predetermined value is reached. Thereafter when the predetermined value is reached the applied tubing pressure will equalise across the ball before the ball is permitted to open. Pressure equalisation ensures that the well is opened in a controlled manner from surface, *critical for ESP applications*.

During the opening phase the sealing ball rotates and translates simultaneously which greatly reduces friction on the ball and seal area. Therefore the resultant actuation force required to automatically open the ball is greatly reduced, ensuring flow is not compromised with a partial restriction within the well bore, *maximising well integrity*.

#### applications

- Ofluid loss valve
- Ohighly deviated wells
- Oall hydraulic packers
- Oextended reach drilling

#### business case benefits

- Ono time wasted to set the packer
- Ono wireline crew or wireline unit required
- Oreduced operational risk and manhandling
- Ono risk of damaging the safety valve with wireline

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10,000psi at 150c

15,000psi at 205c

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Table 1 technical specifications

type A: intervention-less packer valve			
description	value		
outside diameter (in)	3.5	4.5	6.0
inside diameter (in)	variable o	depending	on profile
connection (in)	2.375	2.875	3.5
differential pressure (psi)	5,000		10,000
working pressure (psi)	5,000		10,000
working temperature (°c)		120	