

Well Flow Management

Fluids Sampling and Analysis

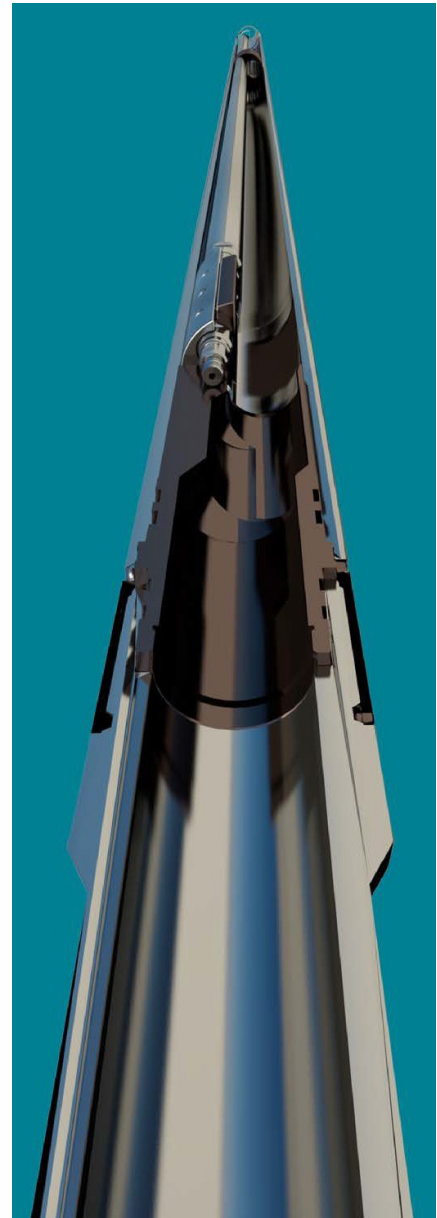
15K TCS Carrier

Expro's 15K TCS Carrier is a drill stem test (DST) tool for conveying bottom hole samplers and fluid characterisation tools.

The 15K tubing conveyed carrier can provide up to 1.2 liters of single phase reservoir fluid by using two single-phase samplers. Two Non-Reactive Samplers (NRS) can be installed to capture samples (0.4 l) for trace element analysis (i.e. Mercury, Hydrogen Sulphide).

Features and benefits

- **HP/HT:** the working pressure and temperature of the carrier is 15,000psi and 400°F (full differential)
- **Triggering functions:** by annulus pressure operated rupture discs or acoustics
- **Extreme sour service:** the carrier and samplers provide service in the most hostile well environments with extreme H₂S levels
- **Wireline tool access:** Unrestricted up to 1.75" diameter. For tools with OD sections between 1.75" and 2.125", contact Expro with information for String-diagram and configuration.
- Can be operated in HP/HT wells without compromising safety
- Activation by individual rupture discs allows the operator to choose the exact time of sampling
- Each sampler may be activated individually
- The carrier can be set up with tools to be activated by the acoustic trigger
- A bypass failsafe option can be installed to activate the sampling tools by rupture disc if the acoustics fail





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Specifications	
Design pressure	15,000psi differential pressure @ 400°F
Tensile strength	300,000 lbf @ 400°F and 0 psi
Sampling capacity	1.2 litre: (2x600cc) single phase sample 0.4 litre: (2x200cc) NRS sample
Carrier OD	5.5" (139.7mm)
Carrier ID	2.25" (57.15mm) full bore 0.9" internal offset inside carrier
Carrier end connection	MK1 version: 4.5" 23.7# Hydril Type 563 MK2 version: 4.75" – 4 T.P.I Stub Acme
Standard crossover End connections upon request	Hydril 3.5" PH6, BOX at top & PIN at bottom weight 100 lb (46 kgs) each
Carrier length	MK1 version: 24.9 ft (7.6 meter) or 22.2 ft (6.76 meter) MK2 version: 23.8 ft (7.25 meter)
Total weight	1,080 lb (490 kgs) incl. PCS & NRS samplers, wo crossovers
Service fluids	NACE MK0175 / SIO 15156
Trigging	Rupture disc or acoustic (Metrol/Lynx) for each sampler

For more information contact your local Expro representative or email fluids@expro.com