SAFETY MOMENT #1 -0821

Solid Plug
Ports Blocked

The photograph is of a solid carrier plug retrieved from and onshore terminal facility. The plug had been installed for 8 months and had been new at that time. The position of the access fitting was at the bottom of the line (BOL), and fortunately Axess technicians accurately verified the line pressure and then used a back pressure pump to introduce positive pressure to the retrieval tool, as per our procedures. Upon successful retrieval the device was inspected and the condition of the plug and its equalization channels was a strong reminder of the importance of back pressuring on BOL locations.

Back pressuring is not without its own risks. Often times it is not practical or possible to back pressure, and it is very common to experience false pressure verification. The Janus™ system is the only fail-safe system that prevents uncontrolled retrieval tool extension or handle rotation when pressure equalization is sudden due to blocked equalization ports .

EQUALIZATION PORTS ARE VITAL TO SAFE OPERATIONS

THEY SHOULD BE REGULARLY CLEANED AND INSPECTED

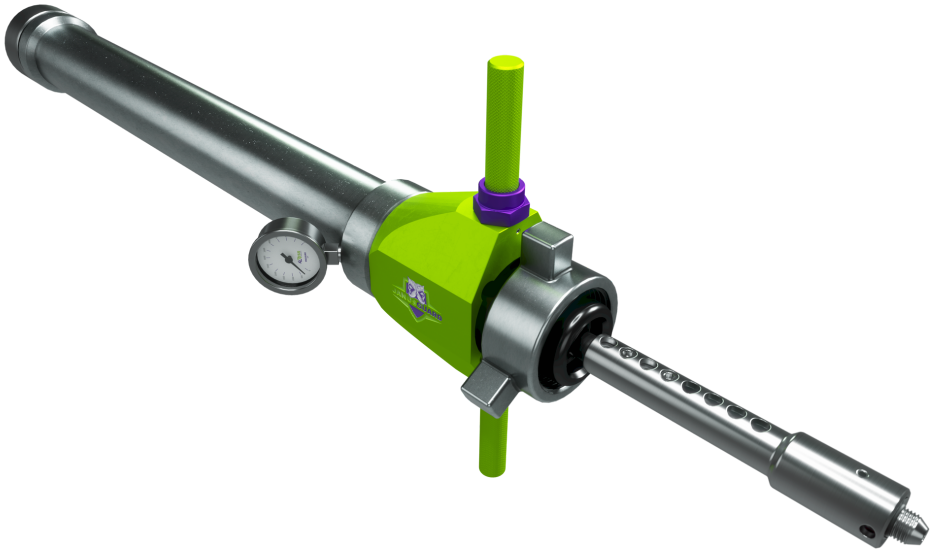
CARRIER PLUGS ARE COATED AND ARE CONSUMABLES

PLAN TO REPLACE CARRIER PLUGSAFTER FOURTH INSTALLATION

BACK PRESSURE ON BOL LOCATIONS AND SPECIFY THE JANUS™ GUARD FOR RETRIEVERS

TELESCOPING RETRIEVER

c/w Built-in Janus™ Guard



Innovating Safety Saving Lives

The advantage is simple, the Janus™ Guard can save lives. It can do this by preventing telescoping tools from pistoning, and therefore removing the 'line of fire'.

Telescoping tools have been in use for over half a century. The design is unchanged and until now there has been no innovation related to the tools or the access system itself. It's estimated that hundreds of online retrievals are performed every day without incident, yet many do lead to incidents and a number of those have led to fatalities.

Through our patented design we have made it possible for legacy tools to be made safer by adding the Janus™ Guard which is supplied as the Janus™ Retrokit. All Axess retrieval tools are supplied with the Janus™ Guard fitted. Combined with Janus™ Tri-Seal Axess Fitting and the Janus™ Double Seal / Double Isolation Service Valve, Axess provide the safest solution for your internal corrosion monitoring hardware.

- **OPERATING PRESSURE UP TO 6000PSI**
- **TEMPERATURE UP TO 230˚C**
- **4 STROKE LENGTHS AVAILABLE**
- **SAFETY ANCHORS AUTO-DEPLOY**
- **UNIONS WITH ALL SERVICE VALVES - CHOOSE THE JANUS™ VALVE FOR SAFETY**

Additional Safety Advantages

The Janus™ Guard reduces the dependency of back pressure techniques that are not always available, practical or possible.

- Removes the risk related to pressure surges
- Removes the risk of inaccurate pressure verification
- Anchors provide a visual indication of the carrier plug position

The outer barrel is locked in position which is ideal for bottom of the line locations or when moving the tool from one location to another.

- No room for pinch point injury
- Easy Assembly - No pressurized parts
- Minimal maintenance

What causes a tool to piston?

All online retrieval tools are designed for pressure balance between the tool and the process. Equalization can be achieved through the carrier plug design, but back pressure techniques are the preferred method for most due to the unreliability of the original design and lessons learned from reported incidents.

The risks with back pressure tools

Back pressuring provides benefits to the retrieval process, especially on bottom of the line fittings and so we do not aim to remove or replace this practice.

The risks stem from equipment availability, calibration and the practicalities with using the equipment during every retrieval. Accurate pressure verification is critical and not always possible.

The Janus™ Guard reduces risk

A physical barrier prevents the uncontrolled extension of the outer barrel. Anchors auto-deploy and lock the outer barrel into position allowing for the safe removal of the carrier plug from the access fitting. Once the fitting is completely disengaged, pressure balance is achieved and verified. Only then can the anchors be retracted for full outer barrel extension and the safe retrieval of the device.

Convert your tools **NOW**

JANUSGUARD

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CHOOSE THE JANUS™ GUARD & SAVE LIVES