

Wireline Intervention Pressure Control (WIPC) System

Reliable and secure pressure control to efficiently deploy wireline tools downhole

Applications

WIPC provides safe and secure pressure control while deploying wireline tools.

How it improves operations

Enables the wireline crew to focus on downhole operations without worrying about surface well integrity. WIPC meets API Spec 16B, simplifying compliance with operator requirements.

Proprietary Cameron elastomers provide reliable sealing performance against aggressive wellbore fluids. Straightforward design with NACE-compliant, forged pressure containing bodies reduces potential leak points. Internal porting simplifies field use and improves robustness of the system. Careful material selection and available corrosion resistant coatings reduce maintenance costs in harsh conditions. Optimized quick-union connectors enable easy alignment and makeup in the field for maximum efficiency. Vertically cut grips on quick-connect collars make for easy grip and fast rig-up.

How it works

WIPC creates a pressure-tight chamber for rigging up tools during intervention operations and provides a dynamic seal around the wireline cable. The system consists of

Wireline valve (WLV): WIPC's one-piece bonnet cylinder, combined with internal porting, reduces potential leak points that occur from multipiece BOP bodies, while providing simple rig-up and operation by eliminating easily damaged external y-hoses. Modular port saver subs enable connections to be customized to customer requirements and reduce expensive repairs if control lines are pulled out in the field. Integral API outlet flange provides a pump in port for fast fill up and pressure equalization.

Tool trap: This safety system prevents a dropped toolstring from falling into the well. WIPC's rugged, dual-flappers design withstands impacts from heavy toolstrings. The high visibility indicator levers show tool-trap status, even from a distance. And the simple, single-acting control system requires just one hose to control the tool trap.

Lubricators: Made from a corrosion-resistant, lightweight alloy, lubricator sections are available in a variety of lengths to configure the pressure control equipment for the toolstring length needed. The patent-pending, metal-to-metal seal geometry has been tested to show superior seal performance, creating a reliable sealing over the life of the product.

Grease injection head with line wiper and packoff: This modular setup can be configured for your cable and pressure requirements. A safety focused flow-tube design reduces the risk of trapped pressure in the flow-tube assembly while standard inner flow tubes enable easy configuration for any cable size. A combination line wiper and stuffing box with integrated grease return provide easy control in a compact package.

Tool catcher: Securely latching onto the fishing neck of the head, the multicatch tool catcher fits a range of heads and fishing neck sizes without needing redress. The top pass-through design enables quick rig-up, accommodating most heads, eliminating the need to rebuild the rope socket at the wellsite, saving operational time and expense.

Quick-test sub (QTS): This provides efficient seal verification to speed up toolstring changeout. The available QTS nightcap is a cap with seal and a pressure gauge used to temporarily seal the QTS, which minimizes time needed at the end of the day to secure the well and quick resumption of operations the next day. Standard-sized pin and box seals match the lubricator connections, eliminating the need to carry specialized seals and reduce the risk of assembly error in the field.

Pump-in sub: A modular pump-in sub provides additional side outlets to the WIPC stack, for a configurable solution to meet operational needs.



The WIPC system.

Specifications

API drift size, in	5/8
Working pressure, psi	10,000
API temperature class, degF	P+U (-20 to 250)
NACE MR0175 limit	No limit H ₂ S*
Compatible cables	Slickline cables, braided-wireline cables, and polymer-jacketed cables
Top passthrough, in	1.75
Tool-catcher range, in	1 to 1.5

*Specific elastomer kits required for H₂S conditions.
 All specifications are subject to change without notice.