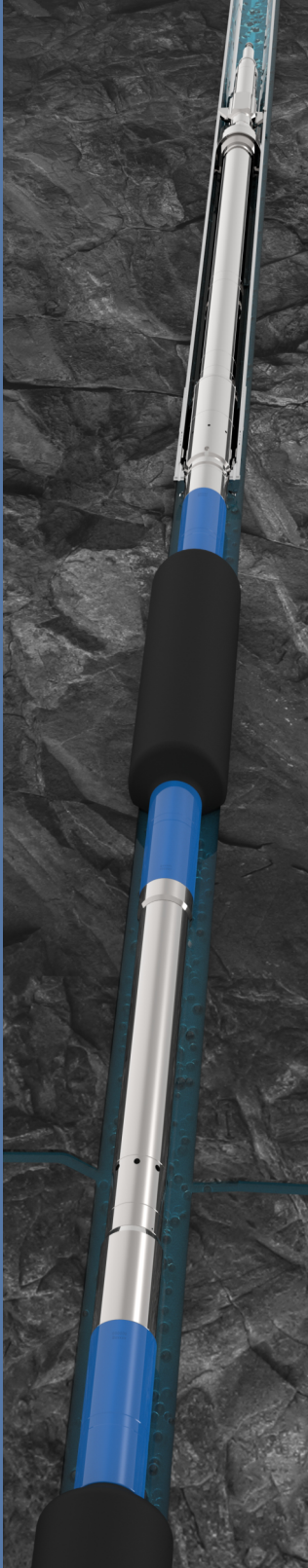


Standard Wireline Packer System (SWiPS®)



SWiPS®:

The IPI SWiPS® is designed for permeability testing in NQ, HQ and PQ wireline core holes. The packers are hydraulically inflated through the drill string, eliminating the need for high-pressure gas bottles and inflation lines.

Applications:

- ◆ Permeability (lugeon) testing for major construction projects e.g. dams, tunnels:
 - Hydrogeologic characterization
 - In situ mining
 - Water sampling (e.g. lithium exploration)

Benefits:

- ◆ Completely hydraulic - needs no nitrogen gas or inflation lines
- ◆ Effective to depths over 1,000m in angle and vertical holes
- ◆ Pump-down versions for shallow angle, horizontal, and up-hole use
- ◆ Works with standard Boart Longyear™ or equivalent coring systems
- ◆ Compatible with industry standard orientation devices
- ◆ Configurable as single or straddle packer system
- ◆ Portability for heli-based operations and express shipment options
- ◆ Stainless steel option for brine and other aggressive borehole conditions
- ◆ No Inflation line or suspension wire in the rods allows running a small-diameter pump for aquifer testing and sampling
- ◆ Sizes to suit NQ, HQ and PQ coring programs, including Thin Kerf versions

Accessories:

- ◆ Non-rotating C-Plate and hauling sub for tool assembly over rods
- ◆ Flow meter assembly with pressure gauge and optional data logger
- ◆ PQ 70 adaptation kit to enable HQ SWiPS® to be run in PQ size core barrel using 70mm packer elements
- ◆ Annular, interval, and bottom hole memory gauge housings available
- ◆ A suitable line on freight box options



Standard Wireline Packer System (SWiPS®)

Single Packer System



Straddle Packer System



Injection Ports

Memory Gauge Housing

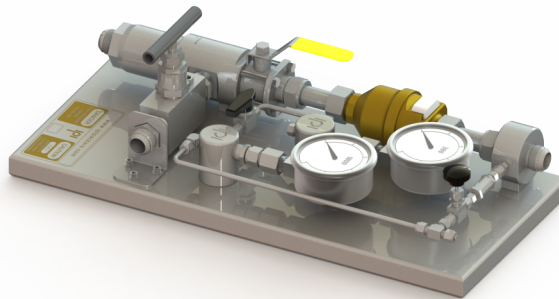
Variable Length Test Zone

Freight Box Options:



Flow Meter Skid:

- ◆ 800psi Flow Meter Skid (manual version) for controlling packer inflation and monitoring downhole volume and pressure



Technical Specifications:

Nominal Size*	NQ [75.7mm]	HQ [96.0mm]	PQ70 [122.6mm]
Center Tube ID	13.9 mm [0.55"]	18.9 mm [0.74"]	18.9 mm [0.74"]
Maximum Working Pressure	100 bar [1450 psi]	100 bar [1450 psi]	100 bar [1450 psi]
Packer Element Length	1000 mm [39.4"]	1000 mm [39.4"]	1000 mm [39.4"]
OD - deflated	42mm [1.65"]	60mm [2.36"]	70mm [2.76"]

* PQ specific sizing available upon request.

** Packaging for illustration purposes only. May differ based on the sending location. Lightweight transport box options available for express shipments and heliportable operations.

