

METROL

KRYVALIS™

PERMANENT RETRIEVABLE PACKER SOLUTIONS

The KRYVALIS is a retrievable single trip well testing packer system which provides the features and performance of a permanent production packer for drillstem testing.

DESCRIPTION, FEATURES & BENEFITS

The KRYVALIS high-integrity single-trip packer is set by opening a port to a hydrostatic setting chamber and allowing well pressure to act on a piston. This pressure provides the setting force and movement of the packer components during transition, also releasing the seal stem assembly, allowing the packer to be spaced out.

The packer can be set by bursting a rupture disc or opening the setting port using a wireless telemetry activation command.

The packer is retrieved by applying tension to the seal stem, shearing out the tool, collapsing the slips and creating an area for the packing element to relax whilst opening a flow bypass to prevent swabbing.

> No need to stab and unstab seals from sealbore for major string space out.

- > Non elastomeric premium seal unit on locator may be body tested in any locator space out.
- > Simple adjustment of locator space out; no subs or crossovers required.
- > Built-in contingency release.
- > Barrel slip design.
- > Stinger seal engagement in sealbore at all times.
- > Single-trip, hydraulically set, no requirement for drill collars and simplifies DST string design as it eliminates the need for running numerous Slip Joints, Jars and Safety Joints.
- > No requirement to rotate the string to set packer, so ideal for deviated or subsea wells.
- > Subsea tree and gun positioning before isolation packer setting.
- > Several packers can be set allowing multi- zone DST options.

SPECIFICATIONS

Tool	7"	7 5/8"	9 5/8"	9 3/4"	9 7/8"
KRYVALIS retrievable hydrostatic set packer c/w 20' stroke SBE	29-32lb	55lb	47-53lb	59-60lb	63-68lb
	35-38lb	59-63lb	58-61lb	58-61lb	70-72lb
Gauge OD max for casing:	5.895"	5.895"	8.311"	8.311"	8.311"
OD for heavier weight casing:	5.720"	5.720"	8.154"	8.154"	8.154"
Packer differential pressure rating:	15,000psi	15,000psi	12,000psi	12,000psi	12,000psi
Annular/tubing pressure rating:	20,000psi	20,000psi	20,000psi	20,000psi	20,000psi
Packer weight:	2,425lbm	2,425lbm	2,424lbm	2,424lbm	2,424lbm
Elastomer options:					
HNBR temp rating, max/min:	150/25°C	150/25°C	150/25°C	150/25°C	150/25°C
TFE/P temp rating, max/min:	177/40°C	177/40°C	177/40°C	177/40°C	177/40°C
Hydrostatic chamber rating:	20,000psi	20,000psi	20,000psi	20,000psi	20,000psi
ID nominal:	2.250"	2.250"	2.940"	2.940"	2.250"
Standard locator stroke*:	20ft	20ft	20ft	20ft	20ft
Space-out increment:	5ft	5ft	5ft	5ft	5ft
Length (hydrostatic):	38ft	38ft	38ft	38ft	38ft
Length (acoustic/hydrostatic):	47ft	47ft	47ft	47ft	47ft
Min. hydrostatic setting pressure:	4,500psi	4,500psi	3,500psi	3,500psi	3,500psi
Release method & load:	**SP 40,000lbf	**SP 40,000lbf	**SP 40,000lbf	**SP 40,000lbf	**SP 40,000lbf
Contingency release load:	100,000lbf	100,000lbf	100,000lbf	100,000lbf	100,000lbf
Compressive rating:	300,000lbf	300,000lbf	300,000lbf	300,000lbf	300,000lbf
Compressive rating (end connections)	209,930lbf	209,930lbf	209,930lbf	209,930lbf	209,930lbf
Top connection:	3.5"	3.5"	4.5"	4.5"	4.5"
Bottom connection:	3.5"	3.5"	3.5"	3.5"	3.5"
Service:	H ₂ S, CO ₂ , Acid, NACE MR0175 / ISO15156	H ₂ S, CO ₂ , Acid, NACE MR0175 / ISO15156	H ₂ S, CO ₂ , Acid, NACE MR0175 / ISO15156	H ₂ S, CO ₂ , Acid, NACE MR0175 / ISO15156	H ₂ S, CO ₂ , Acid, NACE MR0175 / ISO15156

*Options to shorten seal assembly stroke

**SP - Straight Pull



Contact Metrol for ISO and API validation and qualification reports (V3-V0). Specifications subject to change without notice.

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