The STX-60 is the smallest diameter version of IPI’s ST range. It employs a multi-cycle, four stage valving mechanism that allows fluid communication to either the packers, annulus, test interval or provides complete shut in. What makes the STX unique is that it can be run:

■ As a wireline tool in conjunction with a 3m or longer mineral wireline coring system;
■ Or, on rods/tubing – including coiled tubing.

As with all other setting tools in IPI’s range, shifting between different stages is accomplished by axial movement only – no rotation is required. The multi-stage functionality enables multiple tests in a single run without pulling out of hole.

APPLICATIONS:
■ Permeability testing
■ Hydrojacking
■ Hydraulic fracturing
■ Rock stress testing
■ Selective stimulation
■ Casing integrity testing
■ Caprock integrity testing

FEATURES:
■ Run in on either wireline or on rods/tubing
■ Ease of use - no control lines, no rod rotation, no down hole pumps required
■ Inflation bypass design - no ‘squeeze’ pressure while inflating the straddle packers
■ Zero displacement valve design - maintains accurate shut-in pressures after the tool is shifted from injection/inflow to shut-in. Prevents spiking the formation when shifting from shut-in to test zone, which can cause jacking/fracking.
■ Balanced valve piston - the tool is in equilibrium
■ Ability to circulate while shut-in
■ Ability to blow down the fluid in the drill pipe/tubing whilst in circulating stage by using compressed air/nitrogen, to facilitate DST or slug withdrawal testing
■ All inlet/outlet ports are protected by filter screens to prevent ingress of solids
■ Emergency deflation - can be activated by over-pull in the event that the packers will not deflate by normal means
■ Cased and open hole application
COMPATIBLE PACKER SYSTEMS

<table>
<thead>
<tr>
<th>PACKER SIZE</th>
<th>WIREFRILL E</th>
<th>TUBING</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>inch</td>
<td>Hole Size</td>
</tr>
<tr>
<td>Ø57</td>
<td>Ø2 ¼</td>
<td>HQ (Ø96mm)</td>
</tr>
<tr>
<td>Ø60</td>
<td>Ø2 ¾</td>
<td>HQ (Ø96mm)</td>
</tr>
<tr>
<td>Ø67</td>
<td>Ø2 ¾</td>
<td>PQ (Ø122mm)</td>
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<tr>
<td>Ø70</td>
<td>Ø2 ¾</td>
<td>PQ (Ø122mm)</td>
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<tr>
<td>Ø86</td>
<td>Ø3 ¾</td>
<td>N/A</td>
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</tbody>
</table>

SPECIFICATIONS

- Minimum Tool Diameter: 60mm
- Run in Mineral Wireline Coring System: HQ or PQ Size
- Run in on Tubing/Pipe: NQ, HQ & PQ
- Max. Pressure Rating: 5000 psi (34.5 MPa)
- Max. Temperature Rating **: 70° C (158° F)
- Max. Pull (Emergency Deflate): 4.4 T (9700 lb)
- Max. Axial load (1.6 safety factor): 13.5 T (29,762 lb)

**Maximum temperature rating on a standard tool. Tools requiring higher temperatures can be supplied, as well as change over kits to existing tools to a maximum temperature of 130°C/266°F.

PRESSURE vs. FLOW

![Graph showing pressure drop vs. flow rate]