

function

SCITEQ RCP small-scale steady-state test (S4 test) is developed for determination of arrest or propagation of a crack initiated in a thermoplastic pipe intended for the supply of gases or liquids at a specific temperature and internal pressure. Built according to ISO 13477.

highlights

- high accuracy RCP tool
- “plug in” to operate installation
- quick shift sample tooling
- high quality components
- high safety level
- design line control stand

features

The SCITEQ RCP system is built up of three main components, RCP machine with stroke cylinder and control panel, containment cage with end closures complete for each pipe size and a tool kit complete for each SDR (Standard Dimension Ratio).

Each tool kit includes anvil, striker blade, containment cage spacers and decompression baffles.

The specified test temperature and pressure is measured and shown on the control panel.

Due to the unique design of end closures and containment cage it is fast and easy to change to another pipe size and/or SDR.

Using a stroke cylinder at high air pressure ensures maximum energy at impact point.

construction

The SCITEQ RCP is designed with main focus on speed of use, accuracy, sturdy solid construction, and flexibility in use.

Rapid decompression ahead of the propagating crack is retarded by internal baffles and by an external cage which restricts flaring of the test pipe at the edges of the fracture. The test pipe is subsequently easily examined to determine whether arrest or propagation of the crack has occurred. Similarly, from a series of such tests at different temperatures but at constant pressure or hoop stress, the critical temperature for RCP can be determined.

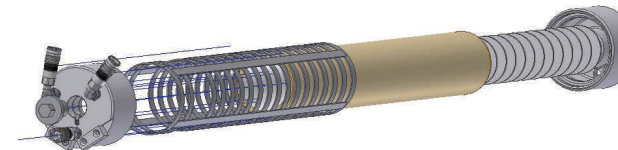
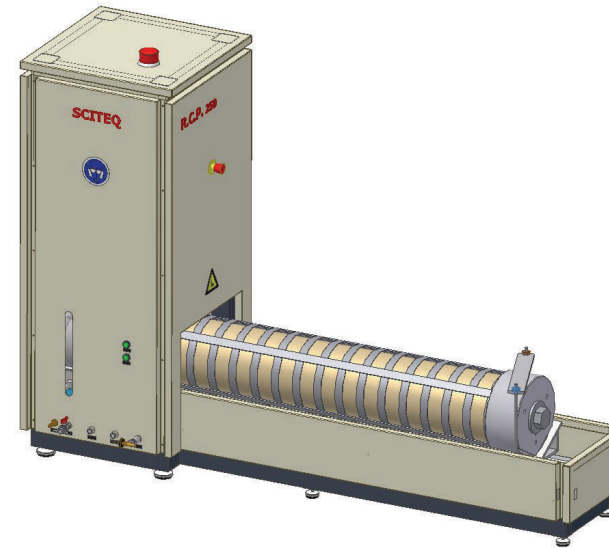


We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost effectively as possible with Q.C. tools throughout the factory.

associated | equipment ▲ | essential equipment

| | | |
|-------------|------------------------|----------------|
| 0° C tank ▲ | conditioning chamber ▲ | laboratory saw |
|-------------|------------------------|----------------|

- test pipe size** external diameter up to max. 250 mm, 400mm or 630 mm (on request)
- speed of the striker blade** 15 +/-5m/s
- fluid level regulation** operator controlled reading water level gauge
- pressure display** filling pressure: at manometer (max. 25 bar)
test pressure: at 4-figured display of control panel
- pressure transmitter** 0-25bar, class 0.3% full scale measuring accuracy
- pressure accuracy** +/-1% of set pressure
- air / gas pressure supply** *for the stroke cylinder:* min. 10bar
for the test piece: from external compressed 30bar air supply with pressure regulated output min. 750 L/min.
- electrical supply** 220-240V AC, 50-60Hz + PE, fused supply 10amps
- water supply** mains water supply through G½" connection
- main dimensions (L x W x H)** RCP 250: 2300x700x1600mm
RCP 400: 3800x900x1750mm



Please note: The system also requires a conditioning zero degree tank or conditioning chamber in which the sample can be immersed prior to testing. These can be quoted on request.

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