



## Porecheck 4 Integrity Test Unit

- water intrusion, pressure decay and bubble point testing

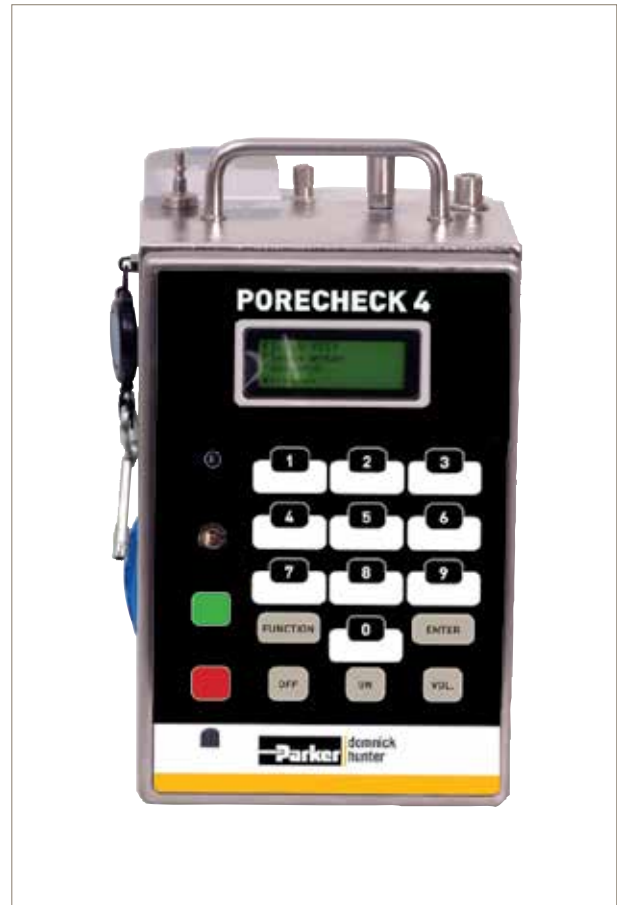
The Porecheck 4 is configured for water intrusion testing, pressure decay and bubble point testing. The Porecheck 4 comes in two versions:

- 'P' Pharmaceutical (CFR) - Allows traceability and audit tracking capability
- 'C' Certified - comes with password level protection

This market leading system incorporates a range of design features unique to the Porecheck 4 bringing true portability, enhanced ease of use, flexibility and reliability in challenging environments. All this within an instrument fully compliant with 21 CFR Part II.

### Features and Benefits

- Designed to 21 CFR Part II and Annex II compliant environments
- Configurable to automatically flush and drain filters
- Automatic compensation when used on housings located 10 metres above instrument
- Robust waterproof stainless steel casing
- Maintains resolution and accuracy regardless of filter system size 0.1 to 32 litres
- Direct attachment to test disposable capsules
- Highly portable and mains independent
- 100 storable test programs defined in blocks



Note: Porecheck is a registered trademark of Parker Hannifin Corporation.

## Physical Parameters

Instrument Material.....	Stainless Steel 1.4301 (AISI 304)
Instrument Size.....	200 mm x 300 mm x 155 mm : 7.9" x 11.8" x 6.1"
Weight.....	8.6 Kg : 20 lb
Ingress Protection Class.....	IP54
Power Supply.....	Re-chargeable Battery (12V / 3.8 Ah) & Mains (90 - 230 VAC : 50 / 60 Hz)
Keyboard.....	Remote Infrared - Alpha Numeric & Instrument Keypad - Numeric
Inlet Pressure Required.....	6.5 - 8.0 barg (94 - 116 psig)
Test Pressure Range.....	350 mbar to 6 barg (87 psig)
Pneumatic Connectors.....	Stäubli RBE 0.3 Style : Stainless Steel 1.4404 (AISI 316L)
Storage Temperature.....	2 - 50 °C (35.5 - 122 °F)
Ambient Humidity.....	1 - 80% RH
Display.....	LCD - 20 Character x 4 Lines - Back Lit
Printer.....	Internally Housed Impact Dot Matrix , 24 Characters per Line
Languages.....	English, French, German, Spanish, Italian & Danish
Software Protection.....	Stored in Flash - EPROM
Storable Test Programs.....	Up to 100 (in Flash - EPROM) Stored in 10 Blocks of 10 Programs

## Test Accuracy

Water Intrusion Measurement Range (ul / t).....	100 - 99999
Resolution (µl).....	5
Accuracy (for a 10" cartridge @ 4000 µl / min).....	5%
Test Pressure (mbar).....	350 - 6000
Stabilisation Time.....	60 - 999 secs
Test Time (t).....	30 - 999 secs
Hardware Volume (ml).....	1 - 32000
Diffusional Flow Measurement (ml / min).....	1 - 999
Resolution (ml / min).....	0.1
Accuracy (for a 10" cartridge @ 16 ml / min).....	5%
Test Pressure (mbar).....	350 - 6000
Stabilisation Time.....	60 - 999 secs
Test Time (t).....	30 - 999 secs
Upstream System Volume (ml).....	1 - 32000
Bubble Point Measurement Range (mbar).....	450 - 5900 (min. 100 mbar above DF test pressure)
Resolution (mbar).....	1
Accuracy.....	1% FS

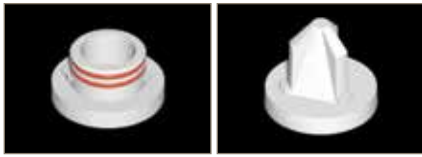
## Instrument Options

	'P' Pharmaceutical	'C' Certified	Documentation
Storable Test Records.....	40	No	Installation, Operating & Maintenance Manual
USER Accounts.....	25	Unlimited	Checklist of Supplied Components
Access USER.....	Access Password & PIN	Open Access	Calibration & Pressure Vessel Certification
Access PROGRAMMER.....	Access Password & PIN	Access Password	CE Declaration of Conformity
Access ADMINISTRATOR.....	Access Password & PIN	Access Password	Operational Qualification Support Documentation
Record Output.....	Printed Records & RS232 Transfer	Printed Record Test Result Only	Laboratory Qualification Results
Audit Trail Record.....	256 Event Audit Trail	No	Suggested OQ Test Protocol



# Endcap styles

## Cartridge endcaps



A Style 223 o-rings



D Style 222 o-rings



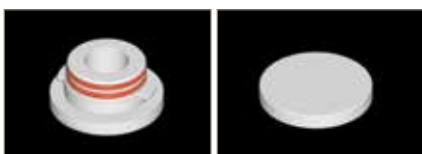
G Style 222 o-rings



K Style 214 o-rings  
(internal)



R Style 222 o-rings



T Style 126 o-rings  
(demi only)



X Style 116 o-rings  
(demi only)



Demi H Style 217 o-rings  
(demi only)



B, L Style Flat Gaskets



E Style 222 o-rings



H Style 54 mm ID  
x 4 mm o-rings



N Style 213 o-rings  
(internal)



S Style Flat Gaskets



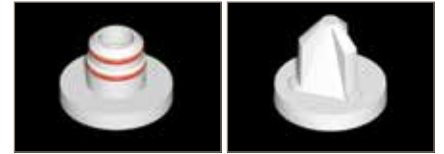
U Style 222 o-rings



Y Style 116 o-rings  
(internal) (demi only)



C Style 226 o-rings



F Style 216 / 218 o-rings



J Style S.O.E.



P Style 227 o-rings



SK Style  
(demi only)



W Style 111 o-rings  
(demi only)



Z Style 116 o-rings  
(internal) (demi only)