

# “Parker” Ballpoint pen testing

## Test levels

### Unit testing

- Check the push mechanism of the handle
- Check the thread quality of the handle when disassembling
- Check how the ball rotates in the tip of the ampule

### Integration testing

- Make sure that the ampule properly interacts with the button, and appears after pressing the button
- Check for backlash in the handle after joining the upper and lower parts

### System testing

- Checking the main functionality of the pen, whether it writes.
- Find out how many hours of writing the ink in the ampule will last

### Acceptance testing

- The pen writes
- Push mechanism works properly
- No pronounced defects on the case

### Alpha testing

- Within one day, the development team tests the pen. Writes and presses the button hundreds of times.

### Beta testing

- Invite a group of volunteers and have them write something and test the action of the push mechanism of the pen.

## **Types of testing**

### **Functional**

#### **Security**

- Check how the pen behaves in a vertical position, if the ink is not flowing

#### **Functional**

- Check if pen writes at temperatures below 20 degrees Celsius

#### **Interoperability**

- Measure the maximum angle at which the pen can write

### **No-functional**

#### **Performance**

- Check how fast the push mechanism works

#### **Load**

- Check the quality of the written text, provided that it is written as quickly as possible.

#### **Stress**

- Check how long you can write without changing the ampule
- Strongly press the handle on the table, while pressing the button
- Check the handle for burning
- Check the handle for drowning

#### **Volume**

- Add ink to the ampule above the established norm, and check how it will affect the writing.

#### **Usability**

- Is it comfortable to write with this pen
- Is it easy to change the ampule

## **Configuration**

-What types of paper does the pen write on

## **UI/GUI**

-What the pen looks like, color, design  
-Are there any external defects on the handle  
-How the “Parker” branding is applied

## **Localization \ Internationalization**

-Are there any spelling errors in the words, on the body of the pen and on the ampule  
-Text is printed from right to left  
-The text is written in Latin

## **Changes related**

### **Regression**

-Rerun all priority tests

### **Re-testing**

-During the localization test, a bug was found in the engraving on the body of the pen. After fixing the bug, you need to rerun this test.

### **Smoke**

-Test the main functionality of the pen, whether it writes and how the pressure mechanism works.

### **Sanity**

-Carry out compliance tests, after changes, at the stage of production of the pen