# FileSize constraints

## Summary

FileSize constraints check the file size of the target resource, measured as number of bytes. Checks are comparisons with integer numbers.

## Element

<fileSize>

## Examples

<fileSize gt="0" gtMsg="Empty files not allowed"  
 le="1000000" leMsg="Files larger 1MB not allowed"/>

<fileSize ne="1029920" neMsg="File size unchanged"/>

## Example schemas

See:

$greenfox/example-schemas/constraint-components/FileSize

## Constraint nodes

The constraints are specified by attributes on <fileSize>, summarized in the following table.

**Table 1**: Constraint nodes supported by FileSize constraints. All nodes are attributes on the <fileSize> element.

|  |  |  |  |
| --- | --- | --- | --- |
| **Check node** | **Expectation** | **Example** | **Notes** |
| @eq, @ne,  @lt, @le,  @gt, @ge | File size in bytes is eq/ne/lt/le/gt/ge the attribute value | gt="200"  lt="1000000"  eq="8019"  ne="8019" | Attribute values must be integers; comparison is numerical. |

## Option nodes

No option nodes are defined.

## Message nodes

For each constraint node (see table 1), two message nodes are supported – an error message and a message commenting a pass, as summarized in the following table.

**Table 2**: Message nodes of FileSize constraints. The nodes are attributes on the <fileSize> element.

|  |  |  |
| --- | --- | --- |
| **Message node** | **Semantics** | **Example** |
| constraint-node-name + „Msg“ | Error message, displayed in a red result describing constraint violation | leMsg="File too large" |
| constraint-node-name + „MsgOK“ | Success message, displayed in a green result describing conformance | gtMsgOK="File not empty" |