

# The Float FieldType

This field type represents a float value.

Name	Internal name	Expected input
Float	ezfloat	float

## Table of contents:

- [Description](#)
- [Input expectations](#)
- [Value object](#)
  - [Properties](#)
  - [Constructor](#)
- [Validation](#)
- [Settings](#)

## Description

This FieldType stores numeric values which will be provided as floats.

## Input expectations

The FieldType expects a number as input. Both decimal and integer numbers are accepted.

Type	Example
float	194079.572
int	144

## Value object

### Properties

The Value class of this field type contains the following properties:

Property	Type	Description
\$value	float	This property will be used to store the value provided as a float.

#### Value object content example

```
use eZ\Publish\Core\FieldType\Float\Type;

// Instantiates a Float Value object
$floatValue = new Type\Value();

$float->value = 284.773
```

### Constructor

The `Float\Value` constructor will initialize a new Value object with the value provided. It expects a numeric value with or without decimals.

### Constructor example

```
use eZ\Publish\Core\FieldType\Float\Type;

// Instantiates a Float Value object
$floatValue = new Type\Value( 284.773 );
```

## Validation

This FieldType supports **FloatValueValidator**, defining maximal and minimal float value:

Name	Type	Default value	Description
minFloatValue	float	false	This setting defines the minimum value this FieldType will allow as input.
maxFloatValue	float	false	This setting defines the maximum value this FieldType will allow as input.

### Validator configuration example in PHP

```
use eZ\Publish\Core\FieldType\Float\Type;

$contentTypeService = $repository->getContentTypeService();
$floatFieldCreateStruct = $contentTypeService->newFieldDefinitionCreateStruct(
    "float", "ezfloat" );

// Accept only numbers between 0.1 and 203.99
$floatFieldCreateStruct->validatorConfiguration = array(
    "FileSizeValidator" => array(
        "minFloatValue" => 0.1,
        "maxFloatValue" => 203.99
    )
);
```

## Settings

This FieldType does not support settings.