

# Working with Validation Controls in ASP.NET

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# 1. What are Validation Controls?

Validation controls in ASP.NET are **server-side controls** that automatically check user input in form fields before submission. They ensure data integrity, reduce errors, and improve security and user experience.

## 2. Types of Validation in ASP.NET

Type	Description
Client-Side	Runs in the browser (JavaScript); faster
Server-Side	Runs on the server; more secure

Note: ASP.NET supports both, often using the same controls.

### 3. Built-in Validation Controls

Control	Description
<b>RequiredFieldValidator</b>	Ensures input is not empty
<b>CompareValidator</b>	Compares two values (e.g., confirm password)
<b>RangeValidator</b>	Checks if a value falls within a range
<b>RegularExpressionValidator</b>	Validates format (e.g., email, phone)
<b>CustomValidator</b>	Lets you write custom logic
<b>ValidationSummary</b>	Displays all errors in one place

## 4. Common Properties of Validators

- `ControlToValidate` : ID of the control to validate
- `ErrorMessage` : Message shown on failure
- `Display` : `None` , `Static` , or `Dynamic`
- `SetFocusOnError` : Focuses the field on error
- `EnableClientScript` : Enables client-side check
- `ValidationGroup` : Used for grouped validation

## 5. Summary Table of Validators

Validator	Usage Example
RequiredFieldValidator	Makes sure input is not empty
CompareValidator	Password == ConfirmPassword
RangeValidator	Age between 18 and 60
RegularExpressionValidator	Email must match regex
CustomValidator	Business logic (e.g. promo code check)
ValidationSummary	Show all error messages in one block or popup

## 6. Best Practices

- Use **ValidationSummary** for user-friendly error display.
- Combine **client-side** + **server-side** for speed and security.
- Avoid hardcoded error messages—keep them consistent and meaningful.
- Use **ValidationGroups** for complex pages with multiple forms.

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**Q & A**