



# High-Pressure Water Valve Selection Checklist



Moving water and fluids through valves at high pressure creates several challenges. The following steps will help you match the right high-pressure valve to your application:



## Establish the Operating Parameters Closed-Loop or Open-Ended?

### Closed-Loop Systems



Determine cleanliness requirements of the system

Identify system pressure, cycle frequency and operating temperature

### Open-Ended Systems



Spec pressure, cycle frequency and temperature

Identify required flow rate, velocity and consistency of the flow media



### Know your pressure drop!

The difference in pressure measured before and after the valve



## Plan Ahead for Heavy-Duty Challenges



Make sure the valve component materials can protect against premature wear



Plan for effects of water hammer—a potentially destructive pressure wave created by an instantaneous change in fluid velocity



## Choose the Best Valve Design

#1

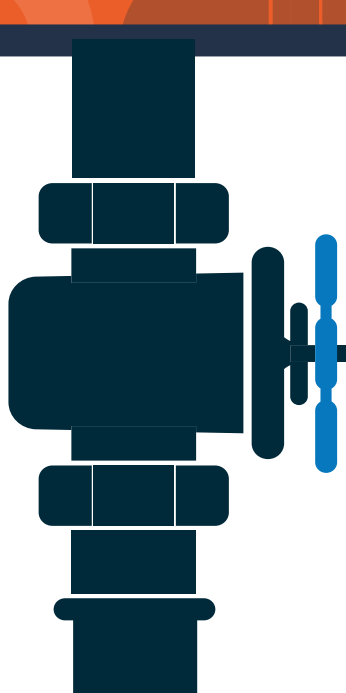
Poppet valve

Spool valve

Hollow bore spool valve



## Select the Ideal Valve Configuration



- Isolation
- Directional control
- Pump bypass
- Check
- Prefill
- Safety