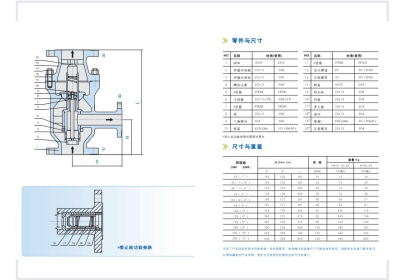
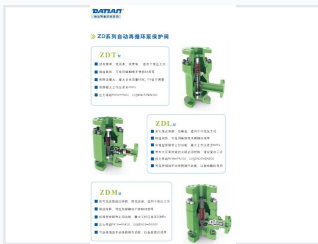


# Automatic Recirculation Control Valve

This automatic recirculation control valve prevents overheating and cavitation in centrifugal pumps operating under low load. The bypass backflow opens automatically when the pump flow rate falls below a specific value, ensuring the necessary minimum flow.



## ADDITIONAL IMAGES



## Overview

### Automatic Recirculation Control Valve

The automatic recirculation control valve is a multifunctional solution designed to protect centrifugal pumps from the dangers of overheating, cavitation, and dry running. By automatically ensuring a minimum flow rate during low-demand operation, it safeguards pump integrity without requiring external power, complex wiring, or separate control systems. This compact, reliable valve is ideal for demanding industrial environments where pump uptime and longevity are critical.

## Applications

### Suitable Industries

Chemical, Petrochemical, Steel Manufacturing, Fire Protection, Power Generation, Shipbuilding, Paper & Pulp, Environmental Protection

## Model Specifications

### Model Comparison

Model	Primary Application	Max Pressure Diff	Pressure Rating
ZDT	Low Pressure	4 MPa	CL150# - 400#
ZDL	Medium/Low Pressure	6 MPa	CL150# - 600#
ZDM	High Pressure	30 MPa	CL150# - 2500#

## Technical Features

### Body Materials

Carbon Steel • Stainless Steel

### Optional Features

- Manual bypass operation (ZDL & ZDM models)
- Non-return valve function (Standard on ZDL & ZDM)

### ZDT Bypass Flow Capacity

60 %