

Metso control valve portfolio  
Optimizing your process  
performance and reliability

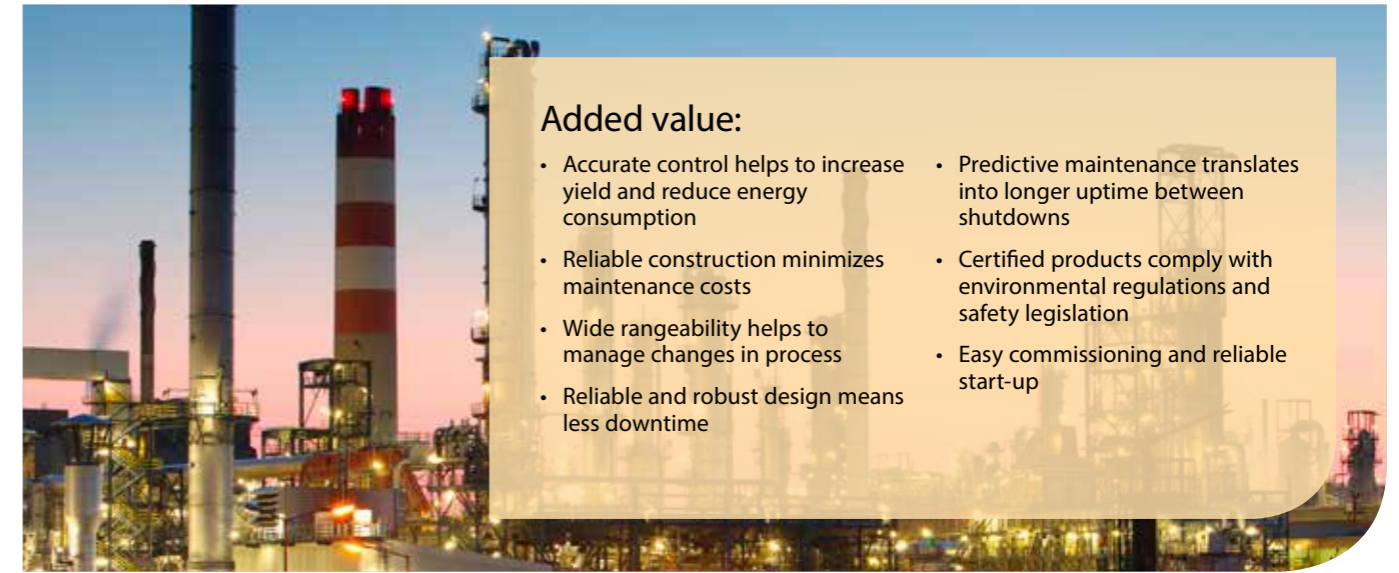


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Metso Automation Inc.  
Vanha Porvoontie 229, P.O.Box 304 FI-01301 Vantaa Finland, tel. +358 20 483 150, fax +358 20 483 151, [www.metso.com/valves](http://www.metso.com/valves)





- Added value:**
- Accurate control helps to increase yield and reduce energy consumption
  - Predictive maintenance translates into longer uptime between shutdowns
  - Reliable construction minimizes maintenance costs
  - Certified products comply with environmental regulations and safety legislation
  - Wide rangeability helps to manage changes in process
  - Easy commissioning and reliable start-up
  - Reliable and robust design means less downtime

# Designed to meet all your control valve needs

Metso offers the most complete range of control valves on the market today. Our valve portfolio offers proven performance for all applications and even the most demanding process conditions. We deliver optimized process performance, stability and energy efficiency at the lowest life cycle cost.

## Operational efficiency and increased profitability

Our valves are built to perform and address the challenges of our customers' processes, improving both operational efficiency and profitability.

### Our smart valves are designed to:

- Increase yield
- Reduce energy consumption
- Optimize operational and maintenance costs
- Help manage changes in process

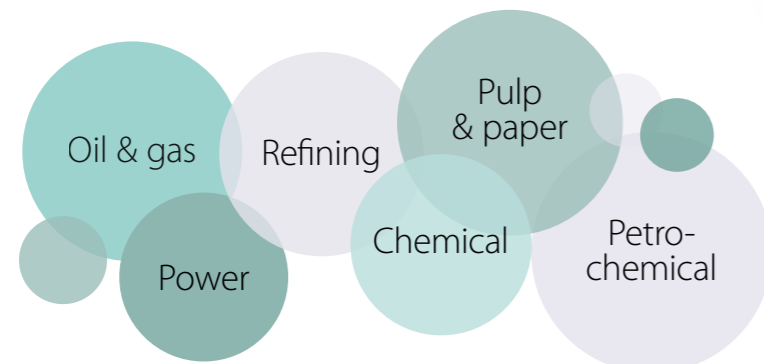
## Reliable and safe process operation

Reliable and safe valve design leads to reduced production interruptions and allows for longer intervals between maintenance shutdowns.

### Metso control valves contribute to:

- Maximized process uptime
- Improved on-site safety
- Compliance with environmental regulations
- Compliance with safety legislation

Metso offers a comprehensive control valves portfolio for applications in:



## Reducing engineering and planning hours

In addition to valves, Metso expert engineering and application support brings efficiency and speed to planning and implementation. Selecting the right valves is made easy with our sizing and selection tools and services.

### Metso offers services spanning entire projects:

- Project planning
- Project management
- Documentation services

## Easy commissioning and reliable start-up

Streamlining engineering, procurement and construction translates into quality and reliability. Our global manufacturing and service network ensures local service availability.

### Our comprehensive services also include:

- Start-up support
- Expediting support
- Inspection support

## Reliable and durable valve technology

The process performance we deliver comes from the technical excellence of the valves.

### They are designed to deliver:

- Long-lasting performance and tightness
- Low friction and operational torque and thrust
- Excellent wear resistance through material and coating selections
- Performance also in extreme temperature and pressure ranges
- Capability to handle erosive media and dirty fluids

## Best in class control accuracy

Metso provides world-class valve solutions with frictionless and backlash-free valve and actuator constructions. They are designed and manufactured to meet stringent control accuracy requirements. Intelligent solutions such as the ND9000 Intelligent Valve Controller provided added value.

### Intelligent solutions offer:

- Easy set-up
- On-line performance diagnostics
- Handy local user interface
- Support for all control buses and communicational protocols