100DMT

> Multi-trim control valve
> Optimised for on-shore and off-shore applications

Engineering GREAT Solutions
The 100DMT control valve has been developed to serve the widest range of applications across the oil and gas industry. The advanced technical features and standardised design provide best-in-class control and utilisation across applications such as separation, dehydration, degassing, liquefaction and refining with particular suitability for anti-surge compressor control.

During product development particular attention was paid to applying the principle of ‘Health and Safety First’.

### Key features

- Multi-trim solution for high flow and advanced noise abatement
- Compact, modular design
- Multiple trim sizes within a single valve body envelope
- Suitable for on-shore, off-shore and maritime applications
- Certified for class A fugitive emissions
- High performance pneumatic actuator

### Benefits

- Multi-trim solution
  - Velocity / kinetic energy control
  - Advanced noise attenuation
  - Full bore for high flow
- Compact design
  - Optimised for weight and height
  - Reduced number of internal parts
  - Easy maintenance
- Multiple trim sizes
  - Improved controllability and rangeability
  - More flexibility in valve size selection
  - Variety in trim size configuration
- Suitable for on-shore, off-shore and maritime applications
  - NACE and NORSOK compliant
  - Variety of coating finishes available
  - Maintenance free packing design
- Certified for class A ISO 15848-1/2 fugitive emissions
  - Hazardous gas-leakage prevention
  - Removes production losses
  - Packing easily interchangeable
- High performance pneumatic actuation system
  - Fast stroking times
  - Reduced number of accessories
  - High resolution

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**Compact, modular build**

**Multiple trim sizes enable improved controllability and rangeability**

**Advanced velocity and noise control using multiple trim arrangements**
Actuation
Fully standardised pneumatic diaphragm actuator. Suitable for fast and precise stroking.

Blow-out proof stem design
Ensures highest safety standards for plant personnel.

Multi-trim
Easily interchangeable trim. Single stage, dual stage, low noise and high flow.

Stem packing
Flexible and interchangeable packing sets. Standard packing, fugitive emission packing, low vacuum packing with graphite on request.

NACE
Also available on bolts and nuts.

Spiral wound gasket
Metal seal with variable filler material for various off-shore applications.

Trim materials
Various trim materials available to suit applications/media.

Body / Bonnet materials
Various body/bonnet materials available to suit applications/media.

No screwed or welded parts
Quick-change trim.
### Performance data

<table>
<thead>
<tr>
<th>Materials</th>
<th>Trim characteristics</th>
<th>Actuator types</th>
<th>Shut-off class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim: 17-4PH; UNS S31600 / UNS S31803 + Stellite</td>
<td>Pressure rating and sizes: ANSI 150 to 900</td>
<td>Optional: Electric</td>
<td></td>
</tr>
<tr>
<td>End connections: ANSI B16.5 RF for ANSI 150 to 900, ANSI B16.5 RTJ for ANSI 90</td>
<td>Temperature rating: Design temperature -60°C to 230°C</td>
<td></td>
<td></td>
</tr>
</tbody>
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### Cerifications

- Quality – ISO 9001
- PED 2014/68/EU - Mod H/H1
- ATEX 2014/34/EU
- ISO EN 15848-1/2 – class A
- TRCU

### General product specification

- Pneumatic diaphragm actuation
  - Preferred solution for 100DMT product line
  - Capable of fast acting speed in emergency and control cases, while also ensuring overall control performance for small movements
  - Compact, light-weight design

- Pneumatic piston actuation
  - Meeting the most stringent demands in terms of long strokes, fast stroking speeds and performance requirements
  - Available with additional spring for safety requirements

- Other options
  - Low power electric actuation options are available on request