# Process Automation

IMI CCI

100DMT Multi-trim control valve



Breakthrough engineering for a better world



# 100DMT. Multi-trim control valve.

# Optimised for on-shore and off-shore applications

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

- Maintenance free packing design

Multiple trim sizes

applications

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- Improved controllability and rangeability - More flexibility in valve size selection - Variety in trim size configuration

#### Suitable for on-shore, off-shore and maritime

- NACE and NORSOK compliant - Variety of coating finishes available

#### Certified for class a ISO 15848-1/2 fugitive emissions

- Hazardous gas-leakage prevention
- Removes production losses
- Packing easily interchangeable

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

NACE Also avaible on bolts and nuts.

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

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

Actuation Fully standardised pneumatic diaphragm actuator. Suitable for fast and precise stroking.

#### Performance data

- Materials: Body / bonnet - ASTM A216 WCC
- / A105 - ASTM A352 LCC /
- LF2 ASTM - A182 CF8M / F316 Linear / equal
- ASTM A995 4A / percentage S31803

Pressure rating and Trim: 17-4PH; UNS S31600 sizes / UNS S31803 + ANSI 150-900 - 1", 1-1/2", 2", 3", 4", Stellite

6", 8", 10", 12" Trim characteristics: Temperature rating Design temperature

- -60°C to 230°C

#### 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

- of long strokes, fast stroking speeds and performance requirements
  - Available with additional spring for safety requirements

stem design Ensures highest safety standards for plant personnel.

Blow-out proof

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

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

No screwed or welded parts Quick-change trim.



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End connections ANSI B16.5 RF for ANSI 150 to 900 ANSI B16.5 RTJ for ANSI 90

Quality level Standard

- ASME B16.34, NACE MR0175

#### Actuator types

- Standard - Single act. pneumatic diaphragm
- Double act. pneumatic piston
- Optional – Electric

#### Shut-off class Standard - ANSI/FCI Class IV θV

- Meeting the most stringent demands in terms

#### Other options

- Low power electric actuation options are available on request





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