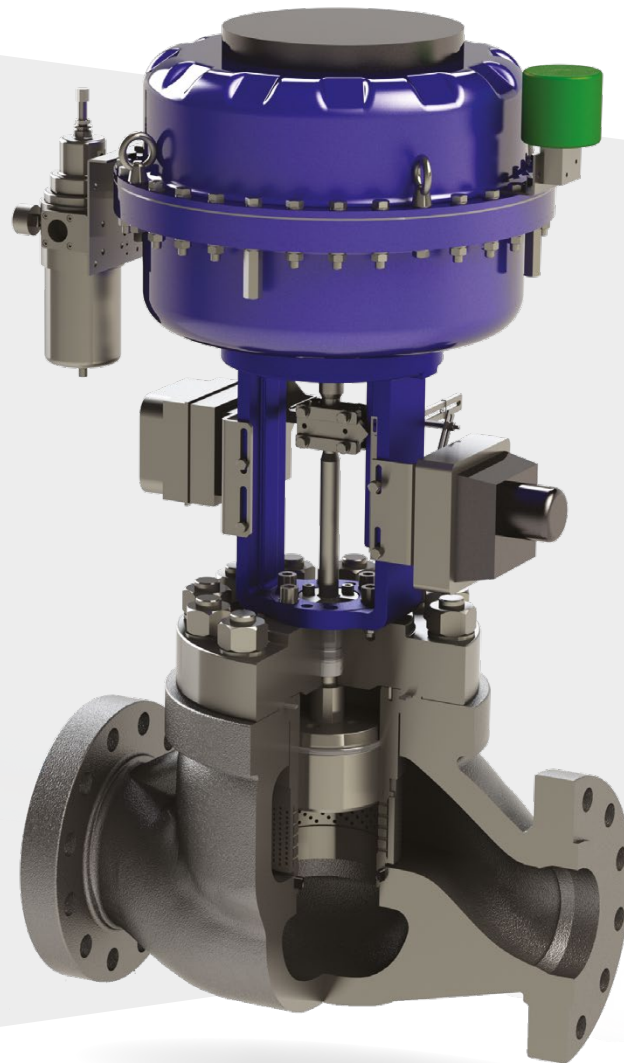



100DMT



 Engineering
GREAT Solutions

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

100DMT

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

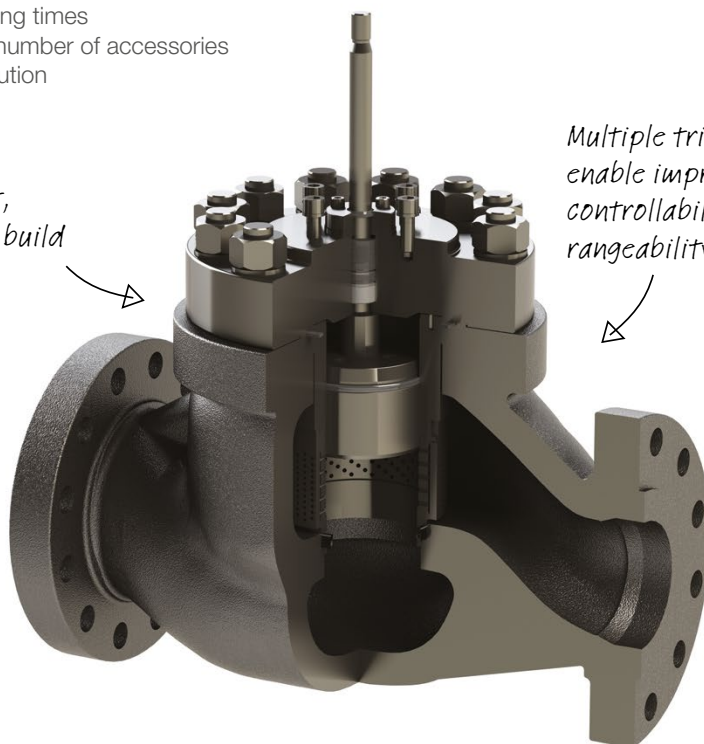
- > Multi-trim solution for high flow and advanced noise abatement
- > Compact, modular design
- > Multiple trim sizes within a single valve body envelope
- > Suitable for on-shore, off-shore and maritime applications
- > Certified for class A fugitive emissions
- > High performance pneumatic actuator

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



Advanced velocity and noise control using multiple trim arrangements



Compact, modular build

Multiple trim sizes enable improved controllability and rangeability

Product breakdown

Stem packing

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

Actuation

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

NACE

Also available on bolts and nuts.

Blow-out proof stem design

Ensures highest safety standards for plant personnel.

Spiral wound gasket

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

Multi-trim

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

Trim materials

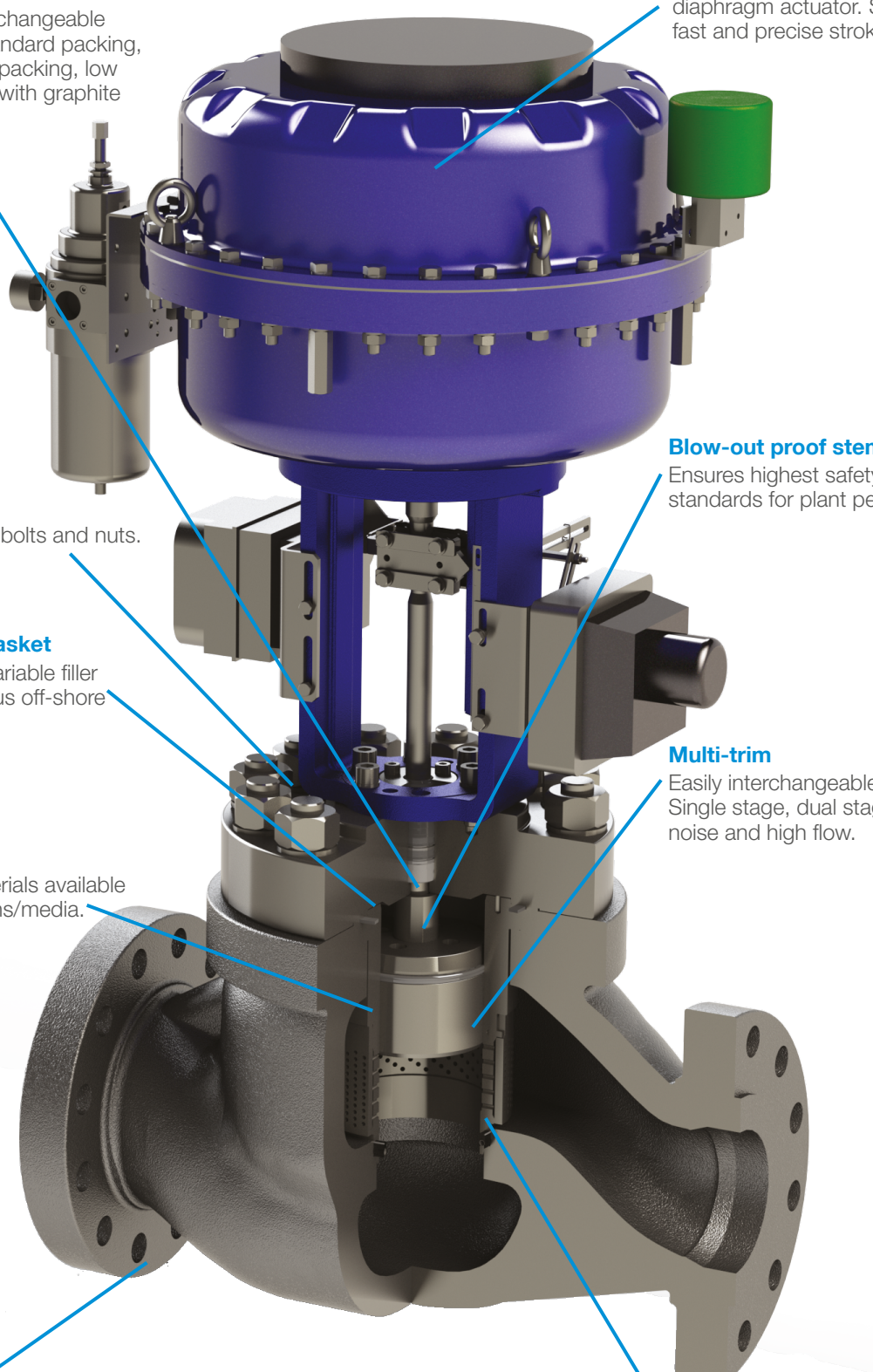
Various trim materials available to suit applications/media.

Body / Bonnet materials

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

No screwed or welded parts

Quick-change trim.



Performance data

Materials

Body / bonnet	ASTM A216 WCC / A105 ASTM A352 LCC / LF2 ASTM A182 CF8M / F316 ASTM A995 4A / S31803
Trim	17-4PH; UNS S31600 / UNS S31803 + Stellite

End connections

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

Trim characteristics

Linear / equal percentage

Pressure rating and sizes

ANSI 150 to 900
1", 1-1/2", 2", 3", 4", 6", 8", 10", 12"

Temperature rating

Design temperature -60°C to 230°C

Quality level

Standard ASME B16.34, NACE MR0175

Actuator types

Standard	Single acting pneumatic diaphragm Double acting pneumatic piston
Optional	Electric

Shut-off class

Standard ANSI/FCI Class IV & V

Certifications

- > 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



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