

Neles™ Top-guided globe valve Series GU

Neles™ series GU globe valves are top-guided, single seat and contoured trim providing superior control performance and high reliability in wide range of applications. Standard units are equipped with Neles diaphragm actuators and valve controllers for precise flow control, extended operation life and performance monitoring online.

Construction

- Compact and lightweight construction
- Wide variety of trims with different Cv and characteristics
- Both metal and soft seats are available depending on the application
- Optional bellows seal for toxic or other applications where no stem seal leakage is allowed
- Wide material selection for different applications
- Many end connection styles available for different applications
- Valve with dimensions specified by EN/DIN standard
- Extension bonnet design for wide temperature range

Accurate control

- Neles digital valve controller for auto-calibration and accurate control
- Accurate and sensitive diaphragm and piston actuators

Wide range of applications

- Suitable for gas, liquid and steam
- Temperature limits -29 ... +425 °C / (-20 ... +797 °F) with standard bonnet construction and over +425 °C (+797 °F) and under -29 °C / (-20 °F) with extended bonnets
- Tendril™ multi-hole trim for high pressure drop and cavitation applications
- Micro trim for small flow and/or to get rid of the stability problems in high pressure drop application
- Inherently characterized trims offered in equal percentage, linear and quick op



Safety and quality

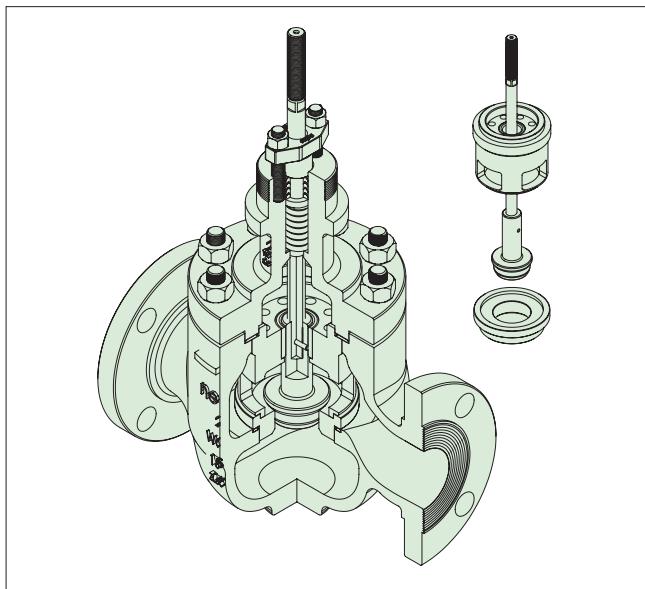
- Rugged one piece body to minimizes the leak paths and makes the valve less prone to pipe stress
- Strictly tested to ensure specified performance with quality assurance systems in accordance to ISO 9001
- Certified ISO 15848 fugitive emissions
- Certified CE/PED & ATEX, TSG & EAC (GOST-R)
- Certified SIL(Safety Integrity Level) in accordance to IEC61508

Easy maintenance

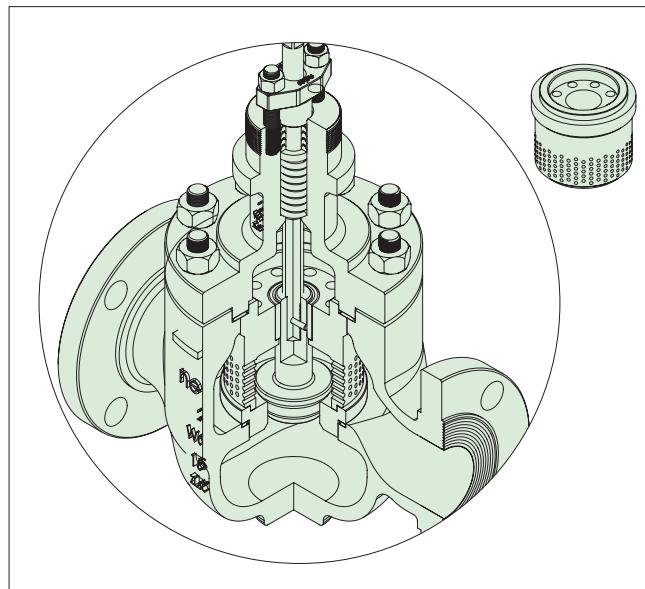
- Quick change trim and top entry construction for easy in-line maintenance
- Self guiding components for easy valve assembly
- Flow characteristics can be easily changed with interchangeable trim components
- Neles digital valve controller with online diagnostics enables performance follow up and predictive maintenance
- Efficient asset management with any FDT frame application and excellent networking capabilities

Different trim designs

Contoured trim



Tendril (multi-hole) trim



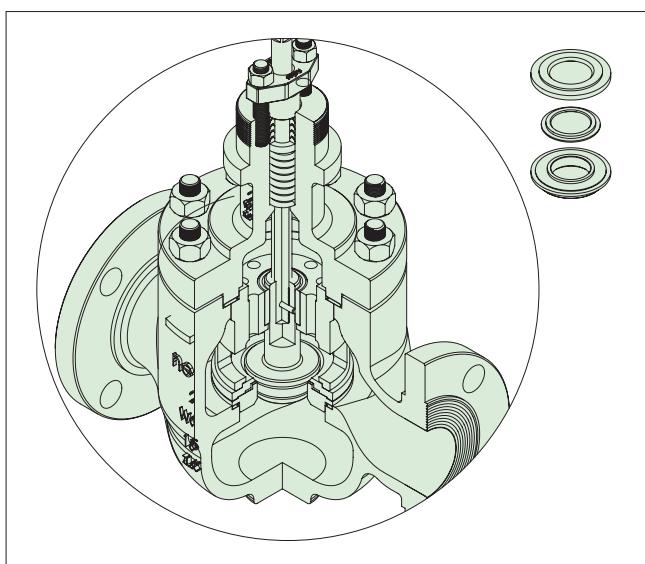
Quick change, general contoured trim

Quick change, general contoured plug offers a smooth flow profile. The trim is most suited to low pressure drop application and is used in the majority of control applications.

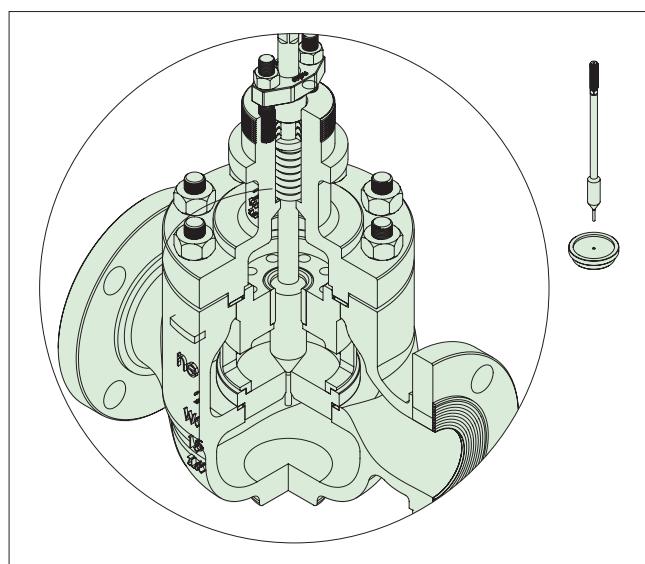
Tendril trim

Tendril is a multi-hole trim where the flow is divided through multiple holes in which pressure progressively reduces while passing through the trim. This gives excellent resistance to cavitation and reduces noise in high pressure drop applications.

Contoured soft seat trim



Micro trim



Soft seat trim

An alteration of the standard contoured trim is the soft seated option. The seat ring is manufactured with a clamped on shroud which locks the soft seated ring in position. When the soft face contacts the seating point it deforms the softer ring ensuring a high degree of closure. The soft seated trim is used on applications where bubble tight shut off is required.

Micro trim

The micro trim design is seat guided construction, capable of handling high pressure drops, without instability problems. This trim design has an inherent characteristic of linear, and has excellent rangeability. It is an ideal selection for the control of very low flow rates. Please contact Valmet for micro trim applications.

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