

Neles  
Globe valve product range



Flexible offering  
to match every  
application



Metso approaches each process and application as a specific challenge



## Neles Globe valves

To help you optimize your process performance and reliability, Metso approaches each process and application as a specific challenge. Neles globe valves provide innovative and fundamentally simple construction, operation and maintenance features to optimize process performance at the lowest cost. The Neles ND9000®-intelligent valve controller has a rugged

and reliable design with an easy set-up and a local user interface. It records and stores data for the lifetime of the device providing comprehensive diagnostics. ND9000 supports all major process buses and communication protocols and helps to achieve smooth and reliable process operation.

### Metso approaches each process and application as a specific challenge

1. Globe control valves for general service
2. Globe control valves for severe service
3. Omega "Labyrinth" trim globe control valves for severe service
4. Innovative and high quality Retrofit service

## Retrofit business



Metso provides the most efficient solutions for costly valve headaches like cavitation, noise, sticking, hunting, poor accuracy, etc. to maximize the performance and minimize cost.

### Body & trim retrofit

- Globe, gate, ball, butterfly, angle, segment and other valve types
- Low-noise trim (Multi-Hole, Multi-Stage, Labyrinth Disk Stack)
- Anti-cavitation trim (Multi-Hole, Multi-Stage, Labyrinth Disk Stack)
- Upgraded trim design for seat tightness
- Special alloy & special treated trim: Stellite, Ni-resisted, Cr-plated, glass-metal coated

### Actuator retrofit, including control panel

- Pneumatic diaphragm actuators
- Pneumatic cylinder actuators (Double/single acting)
- Electric motor actuators

### Repair & service

Metso provides practical solutions for general valve repair maximize performance and minimize cost.

### Field services business

To achieve complete customer satisfaction, Metso provides qualified field service engineers for customer support.

- Start up and calibration
- Maintenance and repair
- Spare part stock management
- Training

## Globe control valves

<p><b>Series GU</b></p> 	<p><b>Single seated globe valve, top guided</b></p> <ul style="list-style-type: none"> <li>• Single seated, top guided</li> <li>• Size range: 1/2" – 6"</li> <li>• Ratings: ANSI class 150# – 4500#</li> <li>• Connections: Flanged, Butt &amp; Socket weld</li> <li>• Body material: A216 Gr-WCB, A217 Gr-WC6, WC9, A351 Gr-CF8, CF8M, Forged steel and alloy steel</li> <li>• Trim material: 304, 316, 420, 630SST, 17-4PH, Hard facing, Alloy steel</li> <li>• Temperature range: -198 ... +593 °C</li> <li>• Seat leakage: ANSI class IV (option for class V for metal seat and VI for soft seat)</li> <li>• Diaphragm and heavy duty cylinder actuators are available</li> </ul>	<p><b>Series GD</b></p> 	<p><b>Double seated globe valve, top and bottom guided</b></p> <ul style="list-style-type: none"> <li>• Size range: 2" – 16"</li> <li>• Ratings: ANSI class 150# – 1500#</li> <li>• Connections: Flanged, Butt weld</li> <li>• Body material: A216 Gr-WCB, A351 Gr-CF8M, Alloy steel</li> <li>• Trim material: 304, 316 SST, Alloy steel</li> <li>• Temperature range: -198 ... +593 °C</li> <li>• Seat leakage: ANSI class II (option for class V for soft seat)</li> <li>• Diaphragm and heavy duty cylinder actuators are available</li> </ul>
<p><b>Series AU</b></p> 	<p><b>Angle valve</b></p> <ul style="list-style-type: none"> <li>• Single seated, top guided</li> <li>• Size range: 3/4" – 48"</li> <li>• Ratings: ANSI class 150# – 4500#</li> <li>• Connections: Flanged, Butt &amp; Socket weld</li> <li>• Body material: A216 Gr-WCB, A217 Gr-WC6, WC9, A351 Gr-CF8, CF8M, Alloy steel</li> <li>• Trim material: 304, 316, 420, 630SST, 17-4PH, Hard facing, Alloy steel</li> <li>• Temperature range: -198 ... +593 °C</li> <li>• Seat leakage: ANSI class IV (option for class V for metal seat and VI for soft seat)</li> <li>• Diaphragm and heavy duty cylinder actuators are available</li> </ul>	<p><b>Series GW</b></p> 	<p><b>3-way Mixing/Diverting globe valve, single seated, top guided</b></p> <ul style="list-style-type: none"> <li>• Single seated, top guided</li> <li>• Size range: 1" – 24"</li> <li>• Ratings: ANSI class 150# – 600#</li> <li>• Connections: Flanged, Butt &amp; Socket weld</li> <li>• Body material: A216 Gr-WCB, A217 Gr-WC6, WC9, A351 Gr-CF8, CF8M, Alloy steel</li> <li>• Trim material: 304, 316 SST, Alloy steel</li> <li>• Temperature range: -198 ... +593 °C</li> <li>• Seat leakage: ANSI class IV (option for class V for metal seat and VI for soft seat)</li> <li>• Diaphragm and heavy duty cylinder actuators are available</li> </ul>
<p><b>Series GB</b></p> 	<p><b>Cage guided globe valve, balanced trims</b></p> <ul style="list-style-type: none"> <li>• High capacity, heavy duty balanced cage guided globe valve</li> <li>• Size range: 3/4" – 18"</li> <li>• Ratings: ANSI class 150# – 4500#</li> <li>• Connections: Flanged, Butt &amp; Socket weld</li> <li>• Body material: A216 Gr-WCB, A217 Gr-WC6, WC9, A351 Gr-CF8, CF8M, Alloy steel</li> <li>• Trim material: 304, 316, 420, 630SST, 17-4PH, Hard facing, Alloy steel</li> <li>• Temperature range: -198 ... +593 °C</li> <li>• ANSI seat leakage class: <ul style="list-style-type: none"> <li>• class III for metal seat &amp; metal seal</li> <li>• class IV for metal seat &amp; soft seal</li> <li>• option for class V for metal seat &amp; soft seal up to 4" and class V for metal seat &amp; metal seal (pilot type) and class VI for soft seat &amp; soft seal</li> </ul> </li> <li>• Diaphragm and heavy duty cylinder actuators are available</li> </ul>	<p><b>Series GM</b></p> 	<p><b>Control globe valve with Omega trims</b></p> <ul style="list-style-type: none"> <li>• Available in straight or angle type</li> <li>• Size range: 1.5" – 24"</li> <li>• Ratings: ANSI class 150# – 4500#</li> <li>• Connections: Flanged, Butt weld &amp; Socket weld</li> <li>• Body material: A216 Gr-WCB, A217 Gr-WC6, WC9, A351 Gr-CF8, CF8M, Forged steel and alloy steel</li> <li>• Trim Material: Solid Carbide Tungsten, Inconel, 316, 420, 630SST, 17-4PH, Hard facing, Alloy steel</li> <li>• Temperature range: -198 ... +593 °C</li> <li>• ANSI seat leakage class: <ul style="list-style-type: none"> <li>• class III for metal seat &amp; metal seal</li> <li>• class IV for metal seat &amp; soft seal</li> <li>• option for class V for metal seat &amp; soft seal up to 4" and class V for metal seat &amp; metal seal (pilot type) and class VI for soft seat &amp; soft seal</li> </ul> </li> <li>• Diaphragm and heavy duty cylinder actuators are available</li> </ul>

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