

®
MAC

V A L V E S

Valves that don't stick

PNEUMATIC VALVES

Solenoid Operated

Proportional Pressure Controllers

Air Operated

Mechanically Operated

Accessories



**Connectivity
Automation
Interface
Power supply**

**MURR
ELEKTRONIK**

stay connected

Stay connected



Valves that don't stick



MAC Valves – the company

Locations: Manufacturing facilities located in Wixom, Michigan USA, Dundee Michigan USA, Liege Belgium, and Taipei Taiwan. Technical Sales Support located in Wixom, Michigan USA (headquarters), Liege Belgium, Taipei Taiwan and Auckland New Zealand.

Company Size: Approximately 1000 employees

Sales Organization: MAC Distributor Network (MDN) – Approximately 3,500 employees globally – Over \$50,000,000 in global inventory – 200 stocking facilities located in 45 countries.

Industry Segment Focus: Specific engineered solutions for industries such as: Automotive, Conveyor, Glass, Health Care, Packaging, Plastics, Robotics, Semiconductor, Sorting, Tire and Welding to name a few.



Murrelektronik – the company

Locations: Manufacturing facilities located in Oppenweiler Germany, Stollberg Germany, Stod Czech Republic, Lahti Finland and Shanghai China.

Company Size: Approximately 1000 employees

Sales Organization: Subsidiaries in many countries, representatives globally located.

Industry Segment Focus: Machine tools, Assembling and handling technology, Packaging, Storage and materials handling technology, Woodworking, Process engineering.



MAC VALVES & MURRELEKTRONIK

Two Companies that Fit Well Together

- Technology Leaders
- Innovative Products
- Optimized Engineered Solutions
- Specific Industry Focus
- Global Customer Service

Valves that don't stick



MAC Valves – the product

Valves that don't stick

INNOVATIVE ENGINEERED DESIGNS

- **Balanced Design** – consistent shifting forces independent of pressure fluctuations
- **High Shifting Forces** – consistency, reliability & faster response
- **Wiping Action** – less susceptible to airline contamination
- **Minimal Friction** – higher net shifting forces, less wear for longer life, low minimum operating pressures
- **Wear Compensation** – optimized solenoid design and sealing technology for longer valve life



Winner of the
Automation Award 2004



Murrelektronik – about Cube67

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INNOVATIVE ENGINEERED DESIGNS

- **Field bus independent design** – fits for all major field bus systems
- **High flexibility** – over 40 different modules can cover all tasks in the automation area
- **Fast action** – via internal high speed bus
- **Minimal system cost** – one bus node supplies many system modules
- **Wear Compensation** – optimized housing and sealing designed for rough application in the IP67 area



MAC VALVES & MURRELEKTRONIK
Innovators in Our Respective Fields

- MAC Valves – an innovator in pneumatic solenoid valve technology
“Valves that don't stick”
- Murrelektronik – an innovator in automation & connectivity technology
“Stay connected”

Valves that don't stick



Combining Technologies

Pneumatics – Electronics – The Best of Both

- Combining **MAC Valves MAConnect™ technology** and Murrelektronik Cube67 technology represents the linking of leading innovative designs.
- Product development cooperation and advanced product engineering groups are dedicated to future technological advancements and design.



Combining Technologies

Even more synergies

- **Connectors** – Connect your valve with a product from a market leader.
- **Power supply** – Power is always needed, choose from a wide range.
- **Interface** – Control is everything. Relays that don't stick!



MAC VALVES & MURRELEKTRONIK
Combining Technologies & Connecting Products

- Innovative Designs
- Modular Products
- Reliable Performance



V A L V E S

Valves that don't stick

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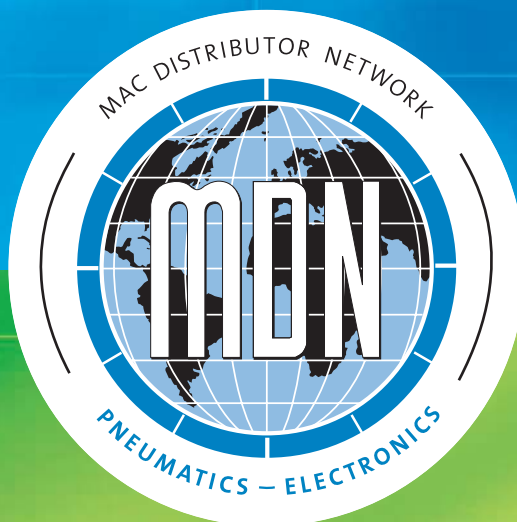
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