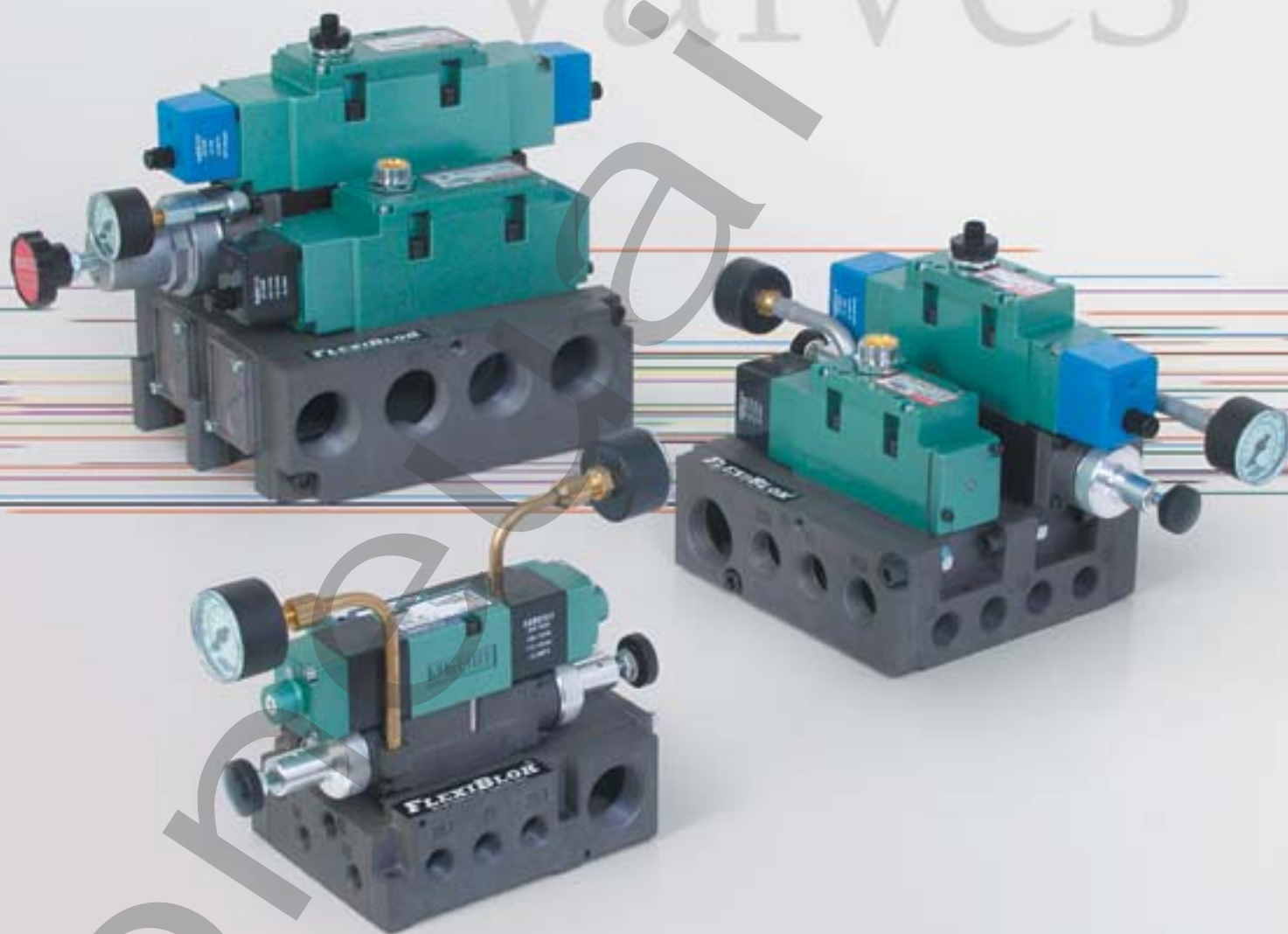




Valves



Automotive Interchangeable Mounting
075, 125 & 250 Series

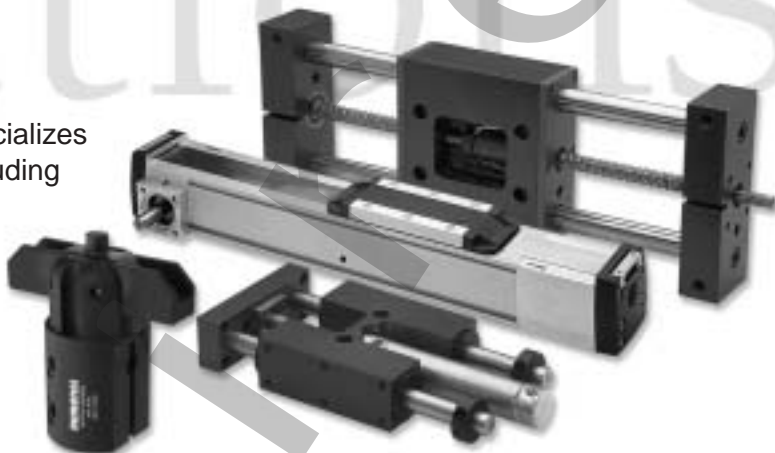
We're everywhere you need us to be!



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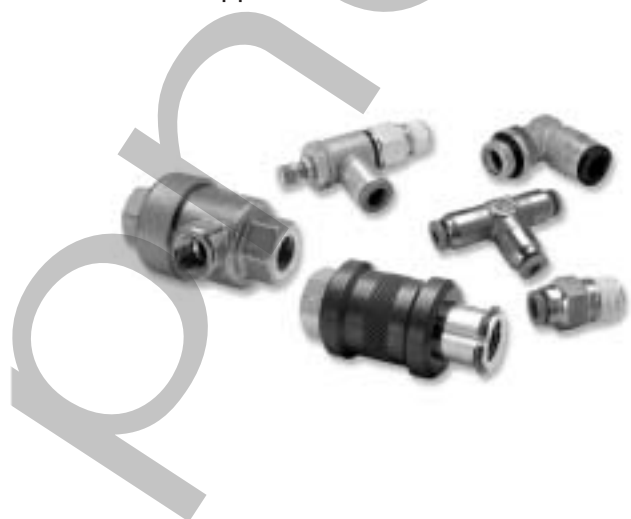
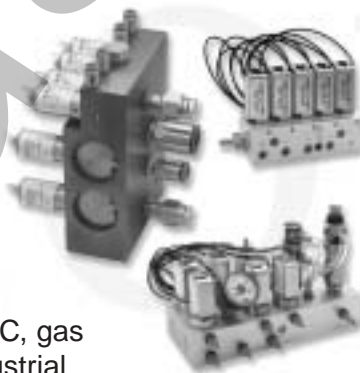
Motion Control

Numatics Motion Control Group specializes in modular automation products including grippers, rotary actuators, gantry slides, ball screw gantries, and linear slides. In addition, we offer a complete line of servo motors, amplifiers, controllers, belt drive actuators, stepper motors and drives. These components have great potential for use in robotics, assembly machines, and any other kind of automatic equipment requiring repeatable motion and pinpoint accuracy.



Miniature Pneumatics

Numatics Miniature Pneumatic Group designs, manufactures, and markets miniature elastomeric sealed pneumatic products for high technology OEM applications. The many unique features of these valves make them ideal for applications in analytical instrumentation, chromatography, biomedical, medical diagnostics, semiconductor, HVAC, gas sampling equipment and many other industrial and OEM applications.



Numatics Accessories

Numatics manufactures and stocks a complete line of fluid power accessories including everything required downstream of the compressor. Numatics provides our customers with a single point source for all their pneumatic, automation, and motion control components to meet application requirements.



Design, Engineering and Product Performance

In the world of highly automated manufacturing, the words failure and downtime are unacceptable.

Numatics' founding was predicated on the premise that the failure of pneumatic components was not inevitable or acceptable. For over 58 years, our objective has always been continuous product evolution and improvement by the refinement of existing designs, as well as the implementation of new design concepts and technology.

Design and process methods are developed using the latest empirical, analytical and statistical techniques including FMEA, MTBF and reliability/maintainability data. This assures maximum productivity, performance and value. These techniques are utilized throughout all Numatics divisions and our strength is in our ability to integrate a complete pneumatic system with every component designed to the same stringent international standards. The benefit: extraordinary reliability with single source responsibility.

Training Programs

Training at Numatics is a service offered to our customers to enhance the value and efficiency of pneumatic systems in their facilities. Numatics has been conducting training through sales and engineering since the start of the company in 1945. This training has been serving our customers' quest for knowledge of pneumatic products and the expertise to most effectively use the products and accessories Numatics sells.

Currently, Numatics offers several pneumatic schools in a seminar format with plenty of interactive and hands-on learning opportunities. Some of these schools are designed specifically for our employees and distributor personnel and others are available for all Numatics' customers and pneumatic users.

Numasizing®

What is "Numasizing"?

Compressed air, like electricity and gas, is an energy medium and therefore must also be conserved and used wisely. Numatics has developed a technique called Numasizing, which enables the resource, compressed air, to be used more efficiently by sizing all the pneumatic components of an air system as well as selecting pressures to optimize its usage. Numasizing negates the need to speculate on the stroke time of an actuator even when subjected to two different loads under two distinct pressures. In addition to predicting these performance times, Numasizing determines the HP (horsepower) requirements, terminal velocity stroke times, air usage, individual and system Cv (Pneumatic Conductance) to establish the weakest link in the chain of components, etc.

The technique not only takes into account all the necessary physical specifications, pressures and components, but objectives such as energy utilization, increased productivity, minimum size components, etc. or blending of several. What ensues is a tailor made circuit designed to the customer's targets. You must keep in mind that even though it is the same circuit, different valves, components, pressures etc. are necessary to satisfy the varied objectives of the OEM, end-user, facilities, conservationists, etc.

Numasizing is not based on a theoretical approach or a mathematical model, but on actual results of over 250,000 test firings of cylinders. They ranged from 3/8" to 14" bores, in conjunction with different diameter/length conductors and valve sizes. The cylinders were subjected to every conceivable dual pressure/load combination feasible. Consequently, it allows us to predict and recommend components and pressures with confidence.

See your local Numatics' Distributor for a demonstration of this invaluable engineering tool for your application.