WITH THE ONLY AIRTIGHT SOLUTION TO VALVE PERFORMANCE.

PNEUMAGNETIC... THE UNCOIL.
SO SIMPLE IT’S A BREATH OF FRESH AIR.

THE PNEUMAGNETIC ACTUATOR REPLACES THE STANDARD ELECTRIC COIL ON YOUR SOLENOID VALVE TO PROVIDE SIMPLE, RELIABLE, SAFE VALVE PERFORMANCE.

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Traditional electric installations require extensive material, labor, space, and time to install. Solenoid valves require wiring and conduit installations that meet national and local codes. In hazardous installations these requirements can be several times the cost of the valve. Valve cost is a small fraction of the Total Installed Cost.

**Eliminate Traditional High Cost Approaches**

**Lowest Installed Cost Solution**
- One simple plastic tube, one simple pilot valve.
- Fewest number of components, least amount of labor, space and time to install.
- Total system is as simple as non-hazardous installations... because it is!
- Easiest system to maintain & modify.

**How to Convert Your Valve**
Simply remove the OEM coil and slip on the Pneumatic actuator; run pneumatic tubing to a small pilot valve installed with your control system.

**Features and Benefits**
- Safe, non-electric
- Uses standard hermetically sealed valves
- Does not require valves with a system fluid seal
- Lowest installed cost
- Requires less space than traditional solutions
- Easier to maintain, does not require special skills
- Less clutter in and around your equipment and in the plant
- Extremely high service life
- No coil hum or heating
- No conduit means increased flexibility for future plant layout modifications
- Operating pressures from 20–125 psi
- Retrofit existing electrical systems using existing valves without breaking into the valve fluid circuit.

**Explosion Proof Approach: High Installed Cost**
- Requires Rigid Conduit PLUS Spark Arrestor PLUS Explosion Proof Conduit Box.
- Results in a high cost system: difficult to install, repair and maintain system safety.

**Intrinsic Barrier Approach: High Installed Cost**
- Requires Expensive IS Barrier PLUS Strict Space, Wiring and Enclosure Requirements.
- Results in a high cost system: difficult to install, repair and maintain system safety.
The difference is in the details.

**Pneumatic... beyond old pneumatics.**

The PneuMagnetic solution uses the reliable, hermetically sealed direct acting valves you’ve learned to trust. Why use direct acting valves?  
- No leaky process fluid seals.  
- Total adaptability.  
- Wider range of valves from which to choose.

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**The old way**

- Mechanical actuation
- Process fluid seal: potential leak and failure point
- Limited valve choices

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**The uncoiled way**

- Magnetic field actuation
- No process fluid leak path
- Large selection of valve choices

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**Simplify**

**Replace this**

- Conduit installation material & labor costs
- Conduit space
- Rigid connection to valve: difficult to install, difficult to test, difficult to maintain
- Spark arrestors
- Conduit boxes
- Potential electric hazard
- Electric code requirements
- System safety can be compromised during maintenance & repair

**With this**

- Simple, flexible, inexpensive pneumatic tubing connection
- Nothing!
- Flexible connection for simple installation, testing & maintenance
- Nothing!
- Nothing!
- No electric hazard
- Simple, safe, plant air
- stays safe even during valve maintenance

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**The unCoil**
PNEUMAGNETIC TECHNOLOGY

(EASY INSTALLATION & REMOVAL SIMPLIFIES MAINTENANCE & TESTING)

PERMANENTLY SEALED BORE

NO PROCESS FLUID SEAL

ACTUATOR SLIPS ON LIKE ORIGINAL COIL

ACTUATOR REMAINS FREE TO SWIVEL ON VALVE FOR EASY CONNECTION

SWIVELS

SHORT STROKE / LOW VOLUME PNEUMATIC CHAMBER FOR FAST RESPONSE & LOW AIR CONSUMPTION

POWERFUL PNEUMAGNETIC "FOCUSED FIELD" MAGNET ASSEMBLY

OPTIONAL DIFFERENTIAL PRESSURE OPERATION

(EASY ON / EASY OFF)

Pneumagnetic technology

U.S. Patent No. 6,991,221 — Int'l Patents Pending
**Response Time for Various Tubing Runs**

### Cycle Life
- Greater than 7 million cycles

### Response Time
- 110 msec at 80 psig; Actuator only, no tubing

### Cycle Rate
- Continuous duty cycle, limited only by valve

### Actuator Volume
- 27.37 ml

### Operating Conditions
- Maximum Operating Pressure: 125 psig
- Maximum Operating Temperature: 175 °F
- Air Quality: clean, dry air; 40 micron filtration
- Air Lube: not required

### Options
- Quick Release actuator retainer included.
- Clean fluids other than air may be used, consult PneuMagnetic.
- Can be operated submerged and in non-corrosive gas environments, as well as partial vacuum.
- Can be operated with a hand pump.

### Safety
- Do NOT Dismantle. Contains powerful magnetic materials and spring under compression.
- Do NOT Overpressurize.
- Do NOT Exceed temperature rating.

Use caution when working with compressed air. Only qualified personnel should specify, apply, install, maintain, and troubleshoot pneumatic equipment.

As with all technical products, the safe application of the PneuMagnetic actuator depends on the system application. The system designer must assure the safe application of this product.

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SO INGENIOUS, YOU’LL WONDER WHAT TOOK SO LONG. CALL NOW...