

Model A7A Color-Change Valves



Fast acting, high-speed valves with carbide ball and seat for positive shut-off and long life in abrasive coating applications.

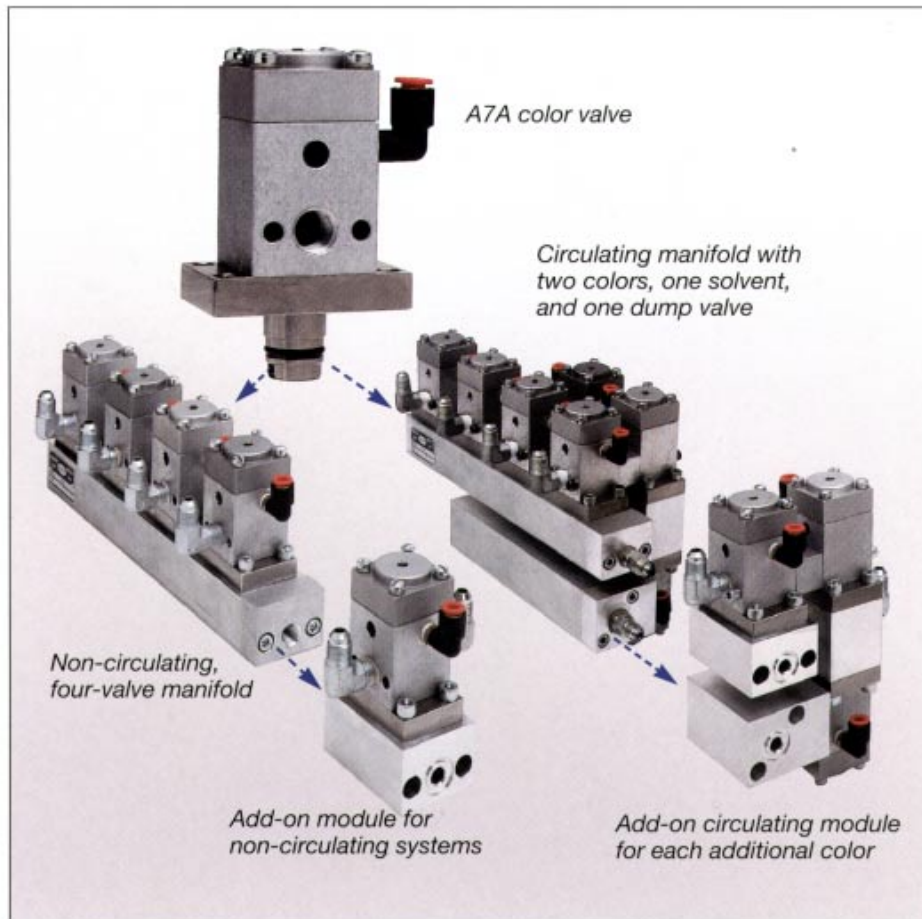
Nordson Model A7A color-change valves deliver fast and reliable color-change performance for improved productivity and maximum operating efficiency in both circulating and non-circulating systems. They respond to pneumatic signals and feature a carbide ball and seat for positive shut-off and long service life when used in abrasive coating applications. The A7A valves can be used with custom-designed manifolds or are available in two standard Nordson color-change manifold configurations: non-circulating and circulating systems.

Non-Circulating Systems

The non-circulating system allows all paints to circulate through the A7A valves while the "active" color is delivered to the spraying equipment. Non-circulating systems are normally used with low pressure spray equipment (air-spray) and rotary atomizer applications. Paint temperature and viscosity are controlled by circulating material through the color valves. A non-circulating system is appropriate when the difference in paint temperature between the color manifold and the spraying equipment is not critical (i.e., 100°F to 120°F range). Non-circulating systems are ideal for controlling paint viscosity in relatively continuous spraying applications.

Circulating Systems

The circulating color-change manifold allows continuous circulation of



all paint colors through the valves. Constant circulation ensures uniform paint temperature and viscosity at the spray gun, and reduces or eliminates material settling. Continuous circulation provides better process control for improved color uniformity and better finish appearance. Uniform temperature at the spray guns is ideal in intermittent spraying applications and dramatically improves painting efficiency.

The circulating color-change manifold can provide fast color change with increased paint savings. When used in conjunction with PLC controls, paint in the active circulating loop can be returned to the main circulating paint supply line and

saved during color changes, rather than being flushed into the spray booth. This provides lower booth maintenance costs, lower VOC emissions and greater paint savings.

The modular "stacking" design of the Nordson A7A color manifolds allows for easy expansion to accommodate an almost unlimited number of valves and additional colors. Superior valve performance and manifold design minimize the chance of color "cross over" and contamination within the paint supply circuits.

Nordson A7A color valves and manifolds are designed for use with most coating equipment, including air-spray, airless, air-assisted airless, HVLP, and rotary atomizers.

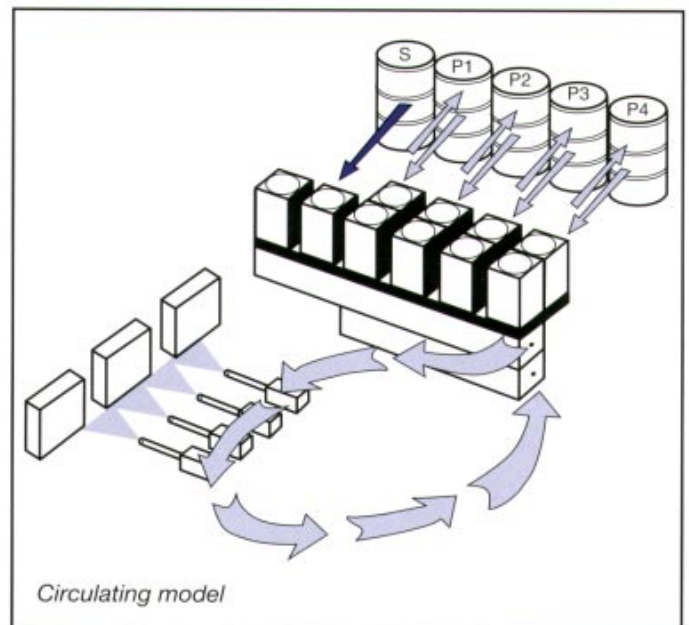
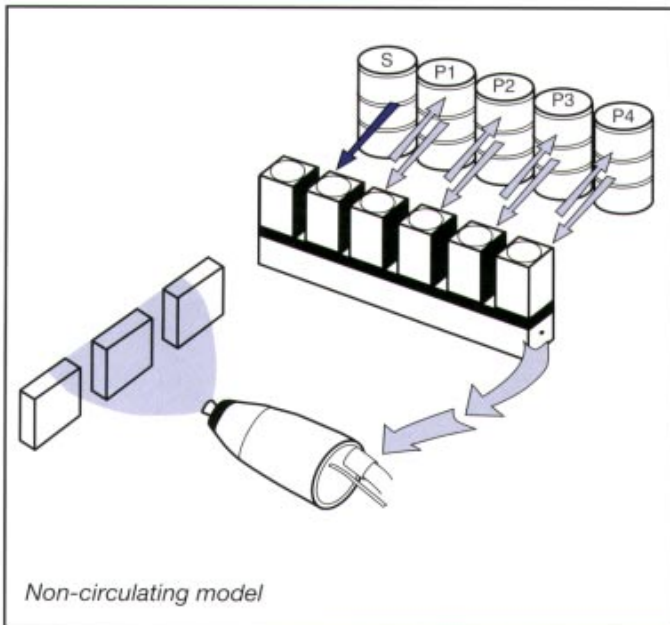
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Features and Benefits

- **Non-circulating model** — provides continuously circulating paint supply through the valves to ensure uniform temperature and viscosity for improved control of the painting process.
- **Circulating model** — allows continuous paint circulation through the spray equipment for precise control of temperature and viscosity. Ideal for intermittent spraying applications where paint temperature and viscosity can change in non-circulating systems.

- **Standard high-pressure valve** — includes integral outlet check valve to prevent material from entering valve for contamination protection.
- **Quick and simple retrofit** — to existing installations provides fast color change and improves production efficiency.
- **Air-actuated valves** — promote safe operation even in hazardous areas with no ignition risk.
- **Modular "stacking" manifold design** — allows for future expansion of additional colors to meet new production requirements.

- **System compatibility** — can be used with most coating equipment, including air-spray, rotary atomizer, air-assisted airless, HVLP, and high-pressure airless systems. The pressure rating is 1500 PSI for standard valves; 3000 PSI for valves with the optional high-pressure closure spring kit.
- **Carbide ball and hardened seat design** — of high-speed A7A valve ensures fast actuation and long life in abrasive coating applications.



Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.

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