

Patriot™ Megaject Innovator Injection System

RTM INJECTION SYSTEM



PATRIOT™
Precision & Performance

Highly Accurate Patriot™ Mix/Meter Technology
Powered & Operated Solely Through Pneumatics
Increased Efficiency
Unique Innovator Control Panel
Easy To Operate
Recirculation Control

MAGNUM VENUS PLASTECH™

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RTM INJECTION SYSTEM



The M.V.P. Patriot™ Megaject Innovator Injection System delivers power, versatility, automation and unprecedented precision to the composites production process.

The Patriot™ Megaject Innovator Injection System was designed for injecting polyester, vinylester and methacrylate resins and catalyst at controlled pressures. The AutoHead mixes on demand at the injection head, and the catalyst ratio can be adjusted from 0.75% to 2.5%.



AutoHead Injection Head

The **fully pneumatic** automated controls, controlling the number of strokes during injections, recirculation, and more makes the process easier and more efficient. Included features of this system include: Mould Pressure Guard (MPG), Recirculation Package, Gun/TurboAutosprue on/off, and the flush controls. It is also designed to include the optional Pneumatic PV Sensor, Pneumatic AutoCatch and Heater Control.

SPECIFICATIONS:

Output Capabilities:Up to 7.5 lbs./min.
(3.4 kg/min.)
depending on materials & application

Catalyst0.75% to 2.5% by volume

Displacement:2.45 in.³ (40.15 cc)/stroke
or 4.90 in.³ (80.3 cc)/cycle

Pump Ratio: 7:1

Maximum Fluid Outlet Pressure: 1500 psi
(76 bar, 7.6 MPa)

Maximum Air Input Pressure:..... 100 psi
(7 bar, 0.7 MPa)



Control Panel

Why Patriot? The secret to Patriot's unprecedented precision is the unique pumping system. Patriot™ is a versatile pumping system that addresses many of the problems experienced in composites material application.

Recent tests conducted by M.V.P. against two competitive systems showed those systems had flow variances as high as 25%, and catalyst-to-resin variance ratios as high as 30%. Patriot™ came in at under 1% variance across the board.

Both the Fluid Section and Catalyst Pump on Patriot™ feature the new "self-healing" seal that has the lowest coefficients of friction available today. This seal does not require packing adjustments, and greatly reduces the problems associated with heat buildup and wear.

The extremely low variance rate offered by the Patriot™ Megaject Innovator Injection System makes this system ideal for closed mould processes. The closed moulding process requires a higher level of precision with every cycle, and the testing has shown that Patriot™ delivers the most efficient and consistent level of precision for this process. If the injection system is inconsistent, the quality of the product will be inconsistent.



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