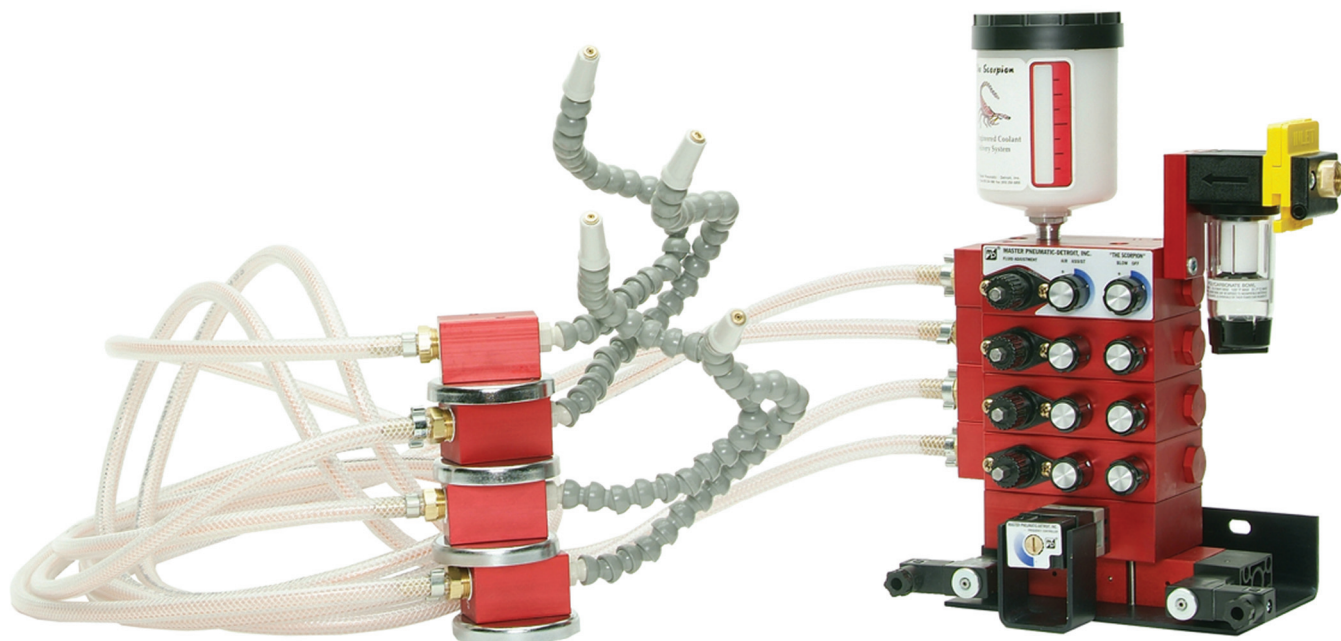


# SCORPION

Liquid dispensers are used where precise control of the delivery of liquids such as water or coolant is required. Specially adapted positive-displacement Servo-Meters inject precisely controlled amounts of liquid at designated intervals.



The Scorpion is a compact, pneumatically controlled system for the delivery of coolant to cutting edges in precisely controlled amounts and frequency. It is a cost-effective solution to the waste management problems created by flood coolants.

When used in machining and grinding operations the Scorpion directs a precise amount of coolant and air directly onto the tool's cutting edges.

An optional blowoff feature programs compressed air to remove chips, cool the workpiece, and clean the area between applications of coolant. Injection of coolant and the air blowoff feature operate independently for flexible control.

On/off control is either pneumatic or electric, the latter allowing the Scorpion to be interfaced with external electronic controls.



# SCORPION Features

**Coolant Reservoir:** 10-ounce capacity standard; optional capacities up to 2 quarts. Remote 5-gallon reservoir also available. See PneuCool Coolant Concentrate (page 286). For use with other liquids, consult Master Pneumatic.

**Fluid Adjustment:** Sets the amount of coolant delivered at each output pulse.

**Output Line:** Coaxial flexible line conducts coolant and air from control assembly to magnetic transfer junction.

**Magnetic Mounting Block:** Provides strong attachment to iron or steel surface.

**Output Delivery Line:** Coaxial line delivers coolant and air to the cutting interface. Line is flexible for easy and accurate positioning. Available as segmented flexible plastic, or semi-rigid copper tubing. Scorpion units are available with one to four output lines.

**Pneumatic Valve:** Used with Scorpion units with optional blowoff control. Provides on/off and blowoff control, and permits interfacing with external controls.

**Frequency Control:** Adjusts frequency of output pulses, i.e., coolant injection.

**Air Filter:** 5-Micron filter element assures essential clean air to the Scorpion unit.

**Lockout Valve:** Built in valve provides manual on/off control. During lockout of supply pressure, the valve allows exhausting of compressed air in the Scorpion.

**Air Inlet:** For pressurized air from 60 to 120 psig (4 to 8 bar).

**Blowoff Adjustment:** Optional blowoff feature allows compressed air to be programmed to remove chips, cool the workpiece, and clean the area between applications of coolant.

**Air Assist Adjustment:** Adjusts the amount of air in the coolant/air output mixture. Aids in directing the coolant flow, and helps to keep the work area clean.

SCORPION and  
LIQUID DISPENSERS

