



The Model-50 Azon Azo-Meter™ is a versatile, low pressure metering machine for mixing two-component, polyurethane systems.

Tornado III™

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MODEL-50 AZO-METER™

Capacity

Materials handled may range in viscosity from 200 to 5000 cps. The Model-50 delivers product, at a rate between 10 to 50 lb/min / 4 to 23 kg/min, this output is operator controlled, utilizing an infinitely variable hydraulic flow control valve.

Metering

The Model-50 utilizes an experience proven technology for metering two-component polyurethanes (a reactive resin and polymeric isocyanate). This is realized by the use of precision, hardened internal gear pumps driven by a single hydraulic motor. The material ratio is determined by the use of appropriately sized gear pulleys with a range of 1:4 to 4:1 by volume. With this method of calibration, drifting of the ratio is virtually eliminated. (See *Ratio Monitoring* option)

Mixing

The uncommon high performance of the Model-50 is made possible by the use of the proprietary Azon Tornado III™ dynamic mixer. The Tornado III features a stainless steel body and mixing chamber with an aluminum impeller that is designed to promote a high shearing effect, to ensure proper mixing. The compact Tornado III comes equipped with three way valves that direct material flow for pouring and purging at the point of dispensing. This configuration reduces the volume of solvent required for cleaning the mixing chamber at the completion of a pour. The Tornado III is driven by a high-speed, hydraulic motor, capable of turning 5,000 rpm. without sacrificing torque. It is easily disassembled for cleaning, with a minimum of down time for maintenance.

Purging

The Model-50 comes standard with manual 3 way valves. Azon recommends the use of it's environmentally safe MP-2 cleaning agent. It is contained in a 5-gal (19-liter) stainless steel pressurized vessel. (See options for *Automatic Purge*)

Material Supply

The Model-50 is configured to be gravity fed. The materials may be contained in a variety of vessels, including 55 gallon / 240 liter drums or 350 gallon / 1540 liter tote containers or bulk storage vessels. (See options for *Material Handling System*)

Hydraulics

Powered by a 10 GPM (37.5 LPM) pressure compensated, variable volume piston pumping system. The Model-50 is driven by a 15 hp electric motor mounted onto a 40 gallon (151 Liter) reservoir equipped with an in-line oil cooler. By equipping the Azo-Meter with this robust hydraulic system, fluctuation in rpm and pressure is eliminated.

Non-standard Options

Ratio Monitoring:

The Model-50 Azo-Meter™ may be equipped with an Azon ratio monitor. The actual ratio is displayed during both the pour and return to tank modes and displays low, normal and high limit status indicator lights to alert the operator of any metering fluctuations.

Material Handling System:

The Model-50 may be equipped with optional supply tanks. These are fitted with a sight gauge, heater blankets and electrically driven agitators for high production temperature controlled output. Each tank has an overflow protection system with a return hose which doubles as the conduit for the introduction of nitrogen into the system to prevent moisture contamination. Each tank is equipped with a diaphragm pump, which transfers chemicals from the drum, tote or bulk storage vessel to the supply tank. The chemical levels are maintained in the supply tank by electronic level controllers.

Automatic Purge:

The Model-50 can be fitted with an optional automatic purging system. This becomes important when working with fast reacting materials. Utilizing an industrial PLC controller, the automatic purge assures the machine operator of consistent purge cycles, with a minimum of (Azon MP2™) solvent consumption.

Electrical Requirements

Minimum electrical service for the Model-50 is, 208/230/380/460/600 VAC 50/30 amp, 3 phase, 50/60 Hz service. The machinery is engineered to NFPA 79 standards; enclosures and components meet NEMA 12 standards.

Air Requirements

Clean dry air is required for pneumatically operated components. Minimum requirements are 80 psi, 20 scfm (5.5 bars, 566 L/min).



CE certification standards available