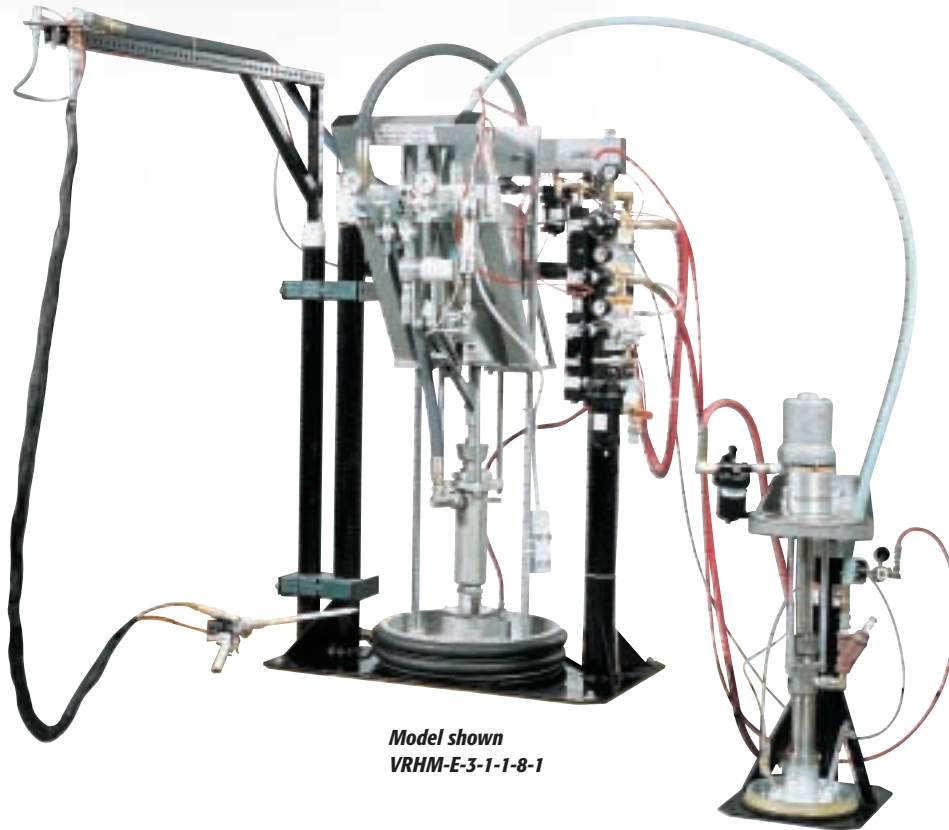


HYDRA-MATE™

Plural-Component Proportioning/Dispensing System



Accurate proportioning of high viscosity, wide ratio materials means less waste and easier clean-up!

FEATURES

- Maximizes material savings by keeping mixed materials to a minimum
- Delivers a consistent, high-output flow of material, ensuring line speed and proper curing
- Variable ratio mixing capabilities ranging from 4:1 to 16:1
- Fitted with an adjustable boom and your choice of applicator gun

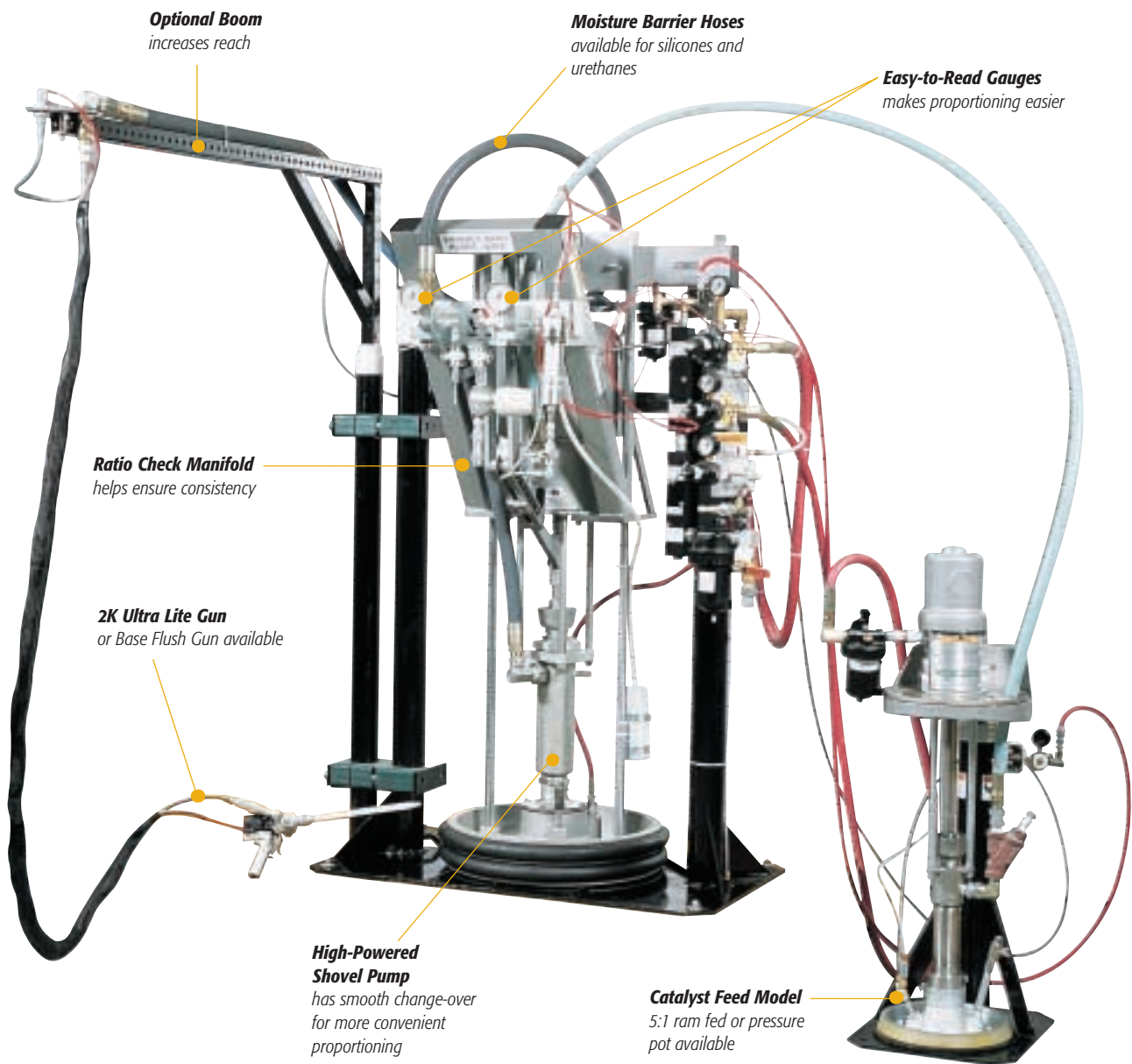
BENEFITS

- Maintains ratio consistency to $\pm 2\%$, ensuring proper curing, adhesion and high quality production
- Less wasted material and clean-up time
- High level of productivity
- Works with all common material chemistries

INDUSTRIAL

PROVEN QUALITY. LEADING TECHNOLOGY.

Hydra-Mate System Components



TYPICAL APPLICATIONS

- Insulated glass sealant
- Aerospace sealants
- Curtain wall structural sealant

TYPICAL FLUIDS HANDLED

- Silicones
- Polysulfides
- Polyurethanes

A Complete Dispense System from HMA Systems

Improve Productivity

The Hydra-Mate is designed to proportion, mix, pump and dispense sealants and adhesives with wide variations in base/catalyst ratio and viscosity. This single, integrated system feeds the applicator guns of your choice and delivers a consistent, high-flow output with ratio accuracy to 2% – ensuring consistent curing and high productivity.

How Hydra-Mate Works

The Hydra-Mate has a Severe Duty® priming piston pump that delivers a consistent flow of high viscosity sealant from a 55 gallon (200 liter) drum. The catalyst material is simultaneously fed to a second displacement pump, which travels a fixed length depending on the stroke of the piston pump. As a result, a known volume of base and catalyst are delivered for a given stroke length. Hoses and check valves in the feed lines ensure that the base and catalyst materials are delivered at similar fluid pressures for a consistent mix of materials, even when the pump direction changes.

The Hydra-Mate offers several configuration options, depending on the material chemistry, the volumetric ratio of base and catalyst, and the best type of mixing suitable for the material. The volumetric ratio can also be adjusted to speed up or slow down material cure as production conditions or materials change.

System Components

To order a complete Hydra-Mate system, select components from five equipment categories using the Hydra-Mate Configured Product Order form (684038). Each system will arrive preassembled, allowing you to quickly begin proportioning and dispensing sealants once delivered to your factory.

- Proportioner: Choose based on viscosity of material (fluid ratio of 25:1 or 50:1 available) and the base/catalyst volumetric ratio
- Curative Feed: Choose from 5:1 Monark double-ball pump on a single post 5 gallon (19 liter) or 5 gallon (19 liter) ASME stainless steel pressure tank.
- Boom or Hose Supply Kit: Choose a boom kit if your process requires the extended reach of an overhead boom kit
- Mix and Dispense Kits: Choose either a base purge kit for a lighter handling weight or a 2K Ultra-Lite gun kit for lower waste and easier clean-up
- Ration Check: Kits are available to make it easier to check base/catalyst ratio, and give you greater assurance of on-ratio proportioning

All Hydra-Mates include safety features to prevent problems that come with dispensing materials at high fluid pressures. Components are designed for high durability and low-cost of ownership, for years of reliable service.

Technical Specifications

Maximum working pressure	3500 psi (206 bar; 20.6 MPa)
Fluid inlet base	55 gal (208 liter) ram plate/priming piston pump
Fluid inlet catalyst	3/4 npt(f)
Fluid outlet base	1 npt(f)
Fluid outlet catalyst	1/4 npt(m)
Air inlet size	3/4 npt(m) 10 ft (3 m) hose
Height	63 in (1.6 m) lowered 102 in (2.59 m) raised
Weight	1,100 lb (499 kg)
Width x Depth	50 in x 40 in (127 cm x 101.6 cm)
Typical size	62 in x 50 in x 77 in O.D. (158 cm x 127 cm x 196 cm O.D.)
Weight	.822 lb (307 kg)
Wetted parts	Zinc-plated carbon steel, aluminum ram plate, nitrile rubber wipers, chrome, stainless steel, UHMWE polyethylene, PTFE, nylon, Buna-N
Fluid inlet	
Pump feed	.5 gal (19 liter) pail ram plate to double ball pump
Pressure pot feed	Pour 5 gal (19 liter) pail into tank liner; tank lid has pick-up tube
Fluid outlet	
Pump feed	3/4 in (1.91 cm) x 10 ft (3 m) Moisture-Lok hose w/ swivel fitting to fit proportioner
Pressure pot feed	.3/8 in (0.95 cm) x 10 ft (3 m) Moisture-Lok hose with fittings to connect to proportioner
Fluid return	
Pump feed	1/4 in (0.64 cm) x 10 ft (3 m) Moisture-Lok hose
Pressure pot feed	1/4 in (0.64 cm) x 10 ft (3 m) Moisture-Lok hose
Air inlet	
Pump feed	1/2 in (1.28 cm) x 10 ft (3 m) Air hose to pump with air line lubricator
Pressure pot feed	1/4 in (0.64 cm) x 10 ft (3 m) Air hose to tank with desiccant filter to dry air to -45° F (-42.78° C) dew point
Fluid filtration	
Pump feed	20 mesh Y-Line strainer
Pressure pot feed	60 mesh "T" strainer

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Call today for product information or to request a demonstration.

1-800-309-2880

www.hmasystems.com