



# Fenestration Equipment

Sealant and Adhesive Equipment for Window Applications



# Advanced Technology for the Window Industry



## Improve productivity and reduce your cost of ownership

Graco systems are engineered and built to outlast the competition. They incorporate innovative features that streamline operations and reduce downtime.

- Built with high-quality parts for longer life and reliability – and less downtime for maintenance
- Advanced pumping technology creates a better, more consistent bead – which results in reduced rework
- Better pumping technology also means less wasted material
- For unique applications, Graco can also custom-engineer your equipment solution

Graco is dedicated to providing the highest level of service through its knowledgeable, qualified global team of distributors. With Graco's ongoing investment in new technologies, you are assured a world-class product offering that helps maximize your plant's production capacity.

For more information, contact Graco at 877-844-7226 or email [info@graco.com](mailto:info@graco.com).

## First choice for productivity and reliability

From hot melt systems to ambient supply systems to plural-component proportioners, Graco offers a complete line of sealant and adhesive dispensing equipment, each configured to fit your specific application. Count on Graco equipment for advanced technologies, superior quality and consistent performance that improves your productivity and throughput.



## Using one supplier makes sense. Here's why:

- Similar equipment functionality across your plant
- Simplified training
- Easier maintenance with common wear parts
- Common and shared parts which provide low carrying costs
- Better service and support

## Advanced, intuitive controls

The electronic controls on Graco Supply Systems and Therm-O-Flow units help you monitor and control critical factors through an easy-to-use interface.

- Provides immediate access to information – at the touch of a button
- Tracks material usage and flow
- Provides pump runaway protection
- Supports preventative maintenance strategies
- Easy to program, easy to service
- Simplified training



# A Complete Line of Solutions



**Therm-O-Flow® 200**  
Hot Melt System



**D200**  
Ambient Supply System



**8900**  
2K Proportioner



**Hydra-Mate™**  
2K Proportioner

## Applications:

- Window glazing
- Curtain wall
- Insulating glass processes such as primary and secondary sealing
- Desiccant applications
- Corner key sealing / corner joint bonding
- Roll coat applications
- Profile wrapping

## Materials handled:

- Silicones
- Butyls
- Polysulfides
- Polyurethanes
- Desiccants
- Urethanes
- Epoxies
- Reactive hot melt adhesives
- Warm melt sealers
- Specialty resins
- Polyvinyl chloride (PVC)



### Window Glazing or Back Bedding

- Adheres glass onto the sash for a weathertight seal
- Use a Therm-O-Flow, Graco Supply System, 8900 or Hydra-Mate

### Desiccant Application

- Spacer is filled with desiccant to prevent condensation and improve insulating performance
- Use a Therm-O-Flow or Graco Supply System

### Primary Seal

- Requires fast-bonding hot-melt, fast-set sealant
- Use a Therm-O-Flow 200 or Therm-O-Flow 20

### Secondary Seal

- Adds structural stability and provides moisture barrier
- Common materials are two-component or reactive hot melt
- Use a Hydra-Mate or 8900



## The most advanced technology on the market

With melt rates that are at least 60 percent higher than the leading competitor, Therm-O-Flow bulk hot melt systems outperform the competition time after time.

### Better performance, higher melt rates

- The patented Mega-Flo™ platen for 55 gal (200 l) units provides the highest output per watt of power in the industry
- Assures smooth melting with the least amount of material degradation
- With the Mega-Flo platen, Graco's Therm-O-Flow hot melt systems can support two glazing lines simultaneously
- High melt rate, combined with the large number of heat zones and high pressure result in greater productivity and performance

### Durable, long-lasting NXT Air Motor technology

- NXT Air Motor provides quieter operation, better performance and improved efficiency

### EasyKey™ Controls

- Intuitive and easy to use
- Integrated self-diagnostics and serviceable design make service quick and easy

### Materials handled

- Butyl rubber
- Ethylene Vinyl Acetate (EVA)
- Polyamide
- Polyurethane Reactive (PUR)
- Pressure sensitive adhesives (PSA)
- Polyisobutylene (PIB)

### Typical applications

- Roll coat applications
- Glazing and back bedding
- Primary and secondary seal
- Desiccant applications
- Profile wrapping

## Technical Specifications - Therm-O-Flow

	Therm-O-Flow 200	Therm-O-Flow 20	Therm-O-Flow 20/Mini-5
Fluid flow at 60 cpm	2.8 US gpm (10.6 lpm)	2.8 US gpm (10.6 lpm)	0.9 US gpm (3.4 lpm)
Max. pump operating temp.	400°F (204°C)	400°F (204°C)	400°F (204°C)
Weight	1200 lb (545 kg)	750 lb (340 kg)	650 lb (295 kg)
Air inlet size	1/2 npt (f)	1/2 npsm (f)	1/2 npsm (f)
Pump fluid outlet size	1 npt (f)	1 npt (f)	1 npt (f)
Power consumption: Compressed air	25-50 scfm typical	25-50 scfm typical	25-50 scfm typical
Peak consumption with: Mega-Flo melt grid	27.5 KVa	NA	NA
Standard/finned melt grid	24.5 KVa	8.7 KVa	6.4 KVa
Smooth melt grid	24.5 KVa	8.7 KVa	6.4 KVa
Instruction manuals	311208	311976	312094

Therm-O-Flow machines and complete configured packages carry the CE mark.

## Sealant & Adhesive Supply Systems with NXT Technology

### The next generation of technology and performance

Designed with features that minimize maintenance and streamline everyday operations, Graco Supply Systems help reduce your cost of ownership.

### Built with high-quality parts for longer life

- Seal design offers less maintenance and lasts two to three times longer than the competition
- Better durability means increased uptime

### NXT – the next generation of Graco air motors

- NXT Air Motor is the new standard in air motor durability, lasting ten times longer than the King

### Advanced controls – intuitive and easy to use

- Tracks and displays material usage
- Provides pump diagnostics for better maintenance
- Provides pump runaway protection
- Tandem Display Module provides automatic electric crossover that switches over to the second ram when material reaches a certain level

### Materials handled

- Silicones
- Butyl
- Polysulfides
- Desiccants
- Urethanes
- Acrylics
- Epoxies
- PVC
- Specialty resins
- Latex

### Typical applications

- Insulating glass manufacturing
- Glazing and back bedding
- Desiccant applications



## Technical Specifications - Graco Supply Systems

Pump	Pump Ratio	Air Motor	gpm @ 60 cpm (lpm)	psi (bar, MPa)	Available in Stainless Steel
C40	40:1 100cc	NXT2200	1.7 (6.4)	4000 (276, 27.6)	No
C63	63:1 100cc	NXT3400	1.7 (6.4)	6300 (434, 43.4)	No
C23	23:1 200cc	NXT2200	3.0 (11.4)	2300 (159, 15.9)	Yes
C36	36:1 200cc	NXT3400	3.0 (11.4)	3600 (248, 24.8)	Yes
C68	68:1 200cc	NXT6500	3.0 (11.4)	6200 (427, 42.7)	Yes
C29	29:1 250cc	NXT3400	3.8 (14.4)	2900 (200, 20.0)	Yes
C55	55:1 250cc	NXT6500	3.8 (14.4)	5500 (379, 37.9)	Yes
C82	82:1 250cc	Premier	3.8 (14.4)	6200 (427, 42.7)	Yes
C14	14:1 500cc	NXT3400	8.0 (30.3)	1400 (97, 9.7)	Yes
C26	26:1 500cc	NXT6500	8.0 (30.3)	2600 (179, 17.9)	Yes
C39	39:1 500cc	Premier	8.0 (30.3)	3900 (269, 26.9)	Yes

# 8900 Proportioner

Plural Component Fixed and Variable Ratio Proportioner



## Versatility and proven reliability

The 8900 Proportioner provides precise, positive displacement metering using double-acting cylinders. It's typically used with two-component materials where one or both components are high-viscosity.

## How the 8900 works

The 8900 Proportioner uses fluid inlet pressure to continuously reciprocate two connected cylinders. This fluid pressure is usually provided by two pumps which supply consistent pressure to the proportioner cylinders. As the major volume cylinder (base) and minor volume cylinder (catalyst) reciprocate, they positively displace the two material components on ratio to the outlet ports. Specially-sized hoses connect the proportioner to a choice of mixers to ensure ratio accuracy. Static mixers are incorporated into the system to deliver a homogeneous mix of base and catalyst.

- Dependable, production-proven operation
- Rugged, reliable heavy-duty components
- Fixed or adjustable ratio versatility
- Continuous, on-demand or adjustable shot-size dispensing
- Modular system configurations for customizing to suit your needs

## Materials handled

- Polysulfide
- Silicone
- Urethane
- Epoxy

## Typical applications

- Secondary seal for insulating glass
- Sealants and adhesives for product assembly
- Polysulfide sealants for aerospace industry

## Technical Specifications - Graco 8900 Proportioner

Max. working fluid pressure	2500 psi (172 bar, 17.2 MPa)
Approximate weight:	
Fixed ratio proportioner	350 lb (158.8 kg)
Variable ratio proportioner	450 lb (204.1 kg)
Dimensions:	
Fixed ratio proportioner	15.2 in H x 43 in W x 11.6 in D (38.6 cm x 109.2 cm x 29.5 cm)
Variable ratio proportioner	16.5 in H x 38 in W x 19.5 in D (41.9 cm x 96.5 cm x 49.5 cm)
Fluid inlet connections	3/4 npt (f)
Fluid outlet connections	3/4 npt (f)
Wetted parts	303 and 17-4 PH SST, PTFE, plated carbon steel, Hytrel®

Instruction manual 309790

# Hydra-Mate Proportioner

Plural Component Proportioning Dispensing Unit

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

Graco's Hydra-Mate package dispenses and applies small to large beads of adhesives. It provides accurate proportioning, reliability and continuous, uniform application. This package uses a valve that requires no flushing and is powered by Graco's reliable Bulldog® proportioning pump.

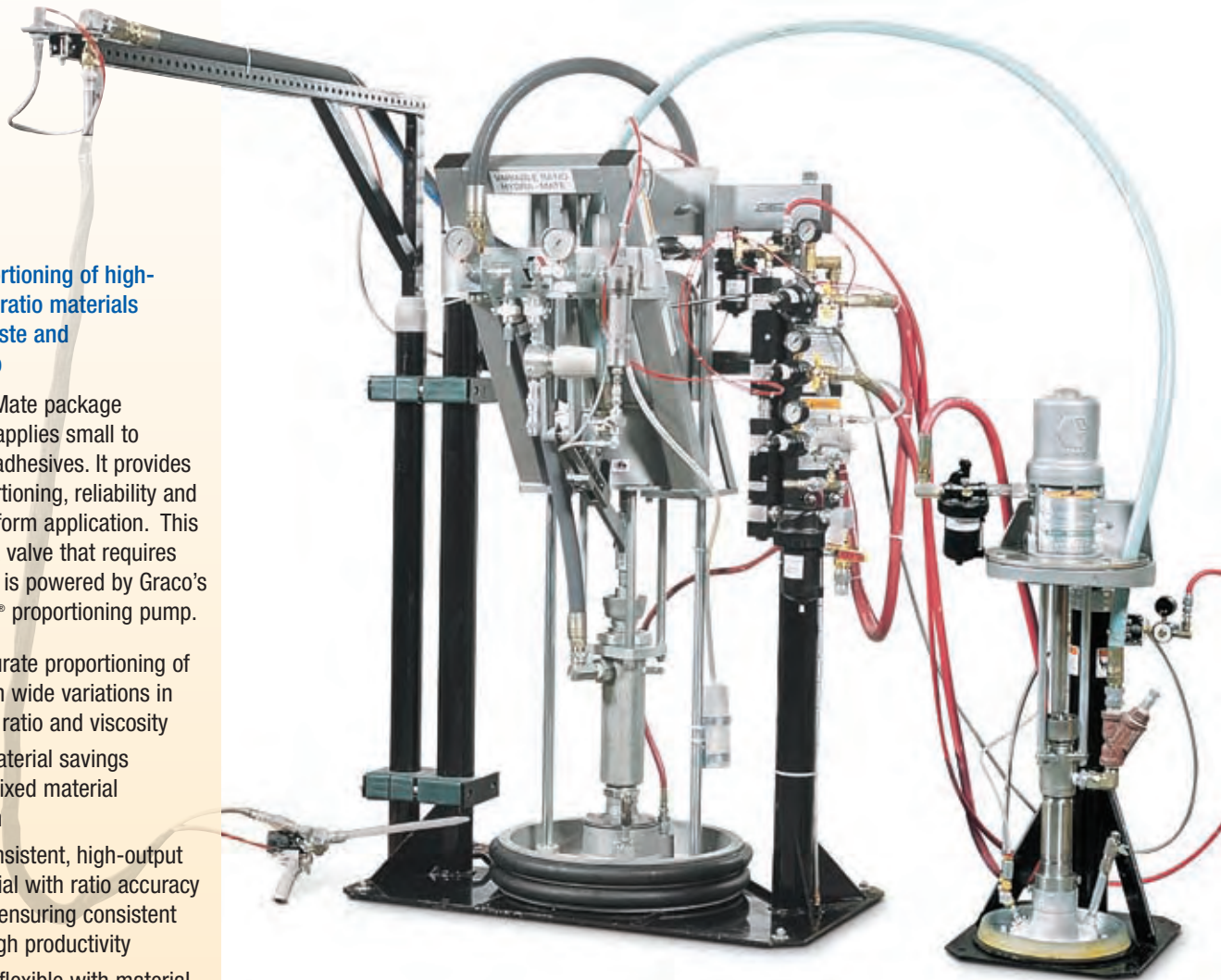
- Provides accurate proportioning of materials with wide variations in base/catalyst ratio and viscosity
- Maximizes material savings by keeping mixed material to a minimum
- Delivers a consistent, high-output flow of material with ratio accuracy to 2 percent, ensuring consistent curing and high productivity
- Versatile and flexible with material ratios ranging from 4:1 to 16:1 – works with most common material chemistries

## Materials handled

- Polysulfide
- Silicone
- Polyurethane

## Typical applications

- Insulating glass sealant
- Structural adhesive for commercial window applications
- Window glazing or back bedding



## Technical Specifications - Hydra-Mate Proportioner

Max. working pressure	3000 psi (207 bar, 20.7 MPa)
Fluid inlet base	55 gal (205 l) 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	3/4 npt (m) 10 ft (3.05 m) hose
Height (raised)	102 in (259 cm)
Height (lowered)	63 in (160 cm)
Weight	1100 lb (499 kg)
Width x depth	50 in x 40 in (127 cm x 102 cm)
Typical size	62 in x 50 in x 77 in (158 cm x 127 cm x 196 cm) OD
Wetted parts	Zinc-plated carbon steel, aluminum ram plate, nitrile rubber wipers chrome, stainless steel, UHMW polyethylene PTFE, nylon, Buna-N

Instruction manual

308930