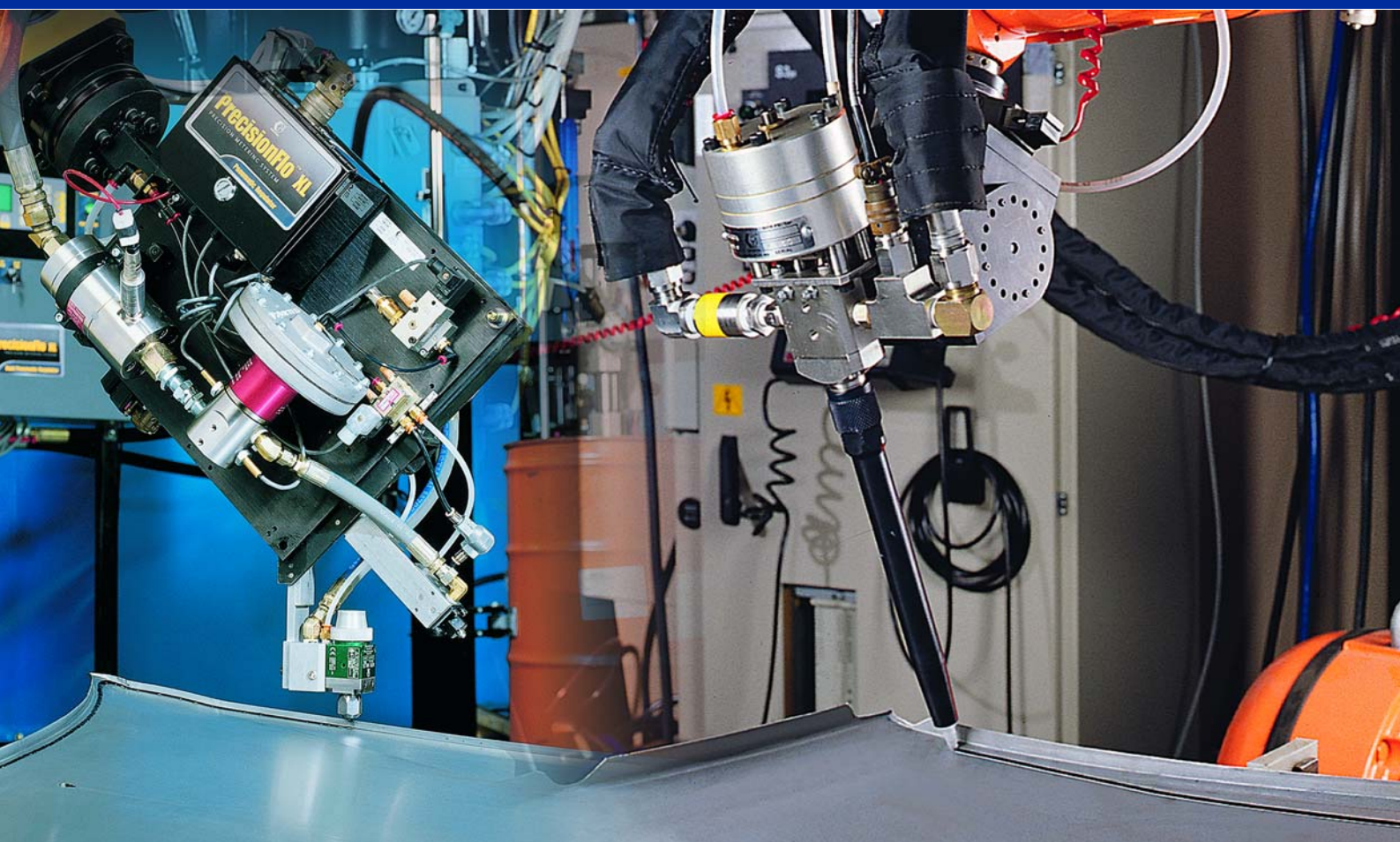




# Sealants & Adhesives

1K, 2K, Hot Melt and Metering Systems



PROVEN QUALITY. LEADING TECHNOLOGY.

# 1K Equipment Solutions



**S20c** – 3-in Single Post Cart      **S20** – 3-in Single Post      **D30**  
3-in Dual Post 30 L      **D200** – 3-in Dual Post 200 L      **D200i** – 3-in Dual Post with  
2-button interlock (not shown)      **D200s** – 6.5-in Dual Post      **D200si** – 6.5-in Dual Post with  
2-button interlock (not shown)

## Check-Mate® Pumps

### TYPICAL APPLICATIONS

- Transferring viscous and abrasive chemicals in the formulation of high viscosity materials
- Feeding high volume applicators or proportioners directly from pails or drums
- Transferring sealants and adhesives to one or more operating dispensing stations
- Packaging drums, pails caulking tubes or chubs

### FEATURES

- Standard Severe Duty coatings and seals
- Optional MaxLife™ coatings and seals that double the life of the standard offering
- NeXT generation (NXT) air motor with runaway control protection and modular build-up
- Optimal enclosed wet-up protects seals from contamination and allows circulation.
- Electric tandem systems significantly reduce downtime
- Optional DataTrak™ control which tracks material usage and flow, and supports preventative maintenance

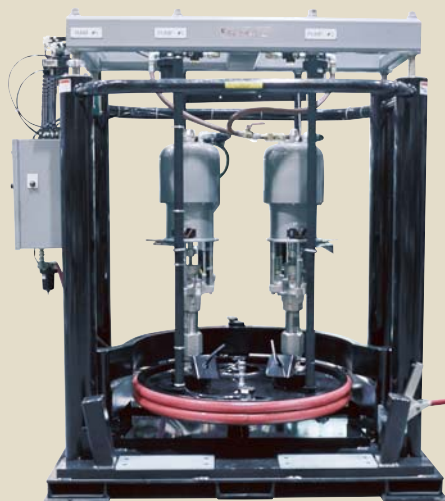
### MATERIALS

- Sealants
- Acrylics
- Silicones
- Adhesives
- Butyl
- Caulking Compounds
- Medium to high viscosity materials.
- Abrasive materials.
- Inks
- Epoxy
- Mastics
- PVC Sealers
- Urethanes

### BENEFITS

- Motor and lower durability save high maintenance costs and reduce downtime.
- Easy maintenance, minimal service and repair cost.
- Significant noise and icing reduction of NXT air motor.





Uni-Drum – Tote Container

## Uni-Drum™ Pumps

### TYPICAL APPLICATIONS

For systems where underbody material is sprayed and sealing beads are applied to a car body  
Feed system for high volume sealant applications

### MATERIALS

Medium viscosity materials, typically PVC  
Liquid applied sound deadeners

### FEATURES

Tandem pump with pneumatic crossover  
Double filter station  
Automatic switch-off after low pressure detection  
Manual depressurization at pumps and filters  
Specially-designed plate venting system reduces waste

### BENEFITS

Reduced drum change over time  
Reduces ram pump and tote container floor space requirement  
Reduces material waste with flat bottom surface follower plate  
Provides fast tote changes and ensures drum alignment

# 2K Equipment Solutions

## PD44 Dispensing System

### TYPICAL APPLICATIONS

Micro dispensing two-component materials:  
potting, gasketing, sealing, encapsulation,  
syringe filling

### MATERIALS

Polyurethane  
Epoxy  
Silicones

### FEATURES

Rod positive displacement metering  
2 component materials remain separated  
within the valve  
No material hoses between rod pump outlets  
and mixer inlet  
Handles low to paste viscosity materials  
Fixed ratio Design  
Compact size and lightweight

### BENEFITS

Precise mix ratio and shot repeatability  
Eliminates cleaning and potential hardening  
of materials in valve  
Assures precise and repeatable shot sizes  
Handles most reactive resin systems  
Accurate ratio control

## PR70 Dispensing System

### TYPICAL APPLICATIONS

Micro dispensing two-component materials:  
automotive electronics, consumer electronics,  
medical, sporting goods

### MATERIALS

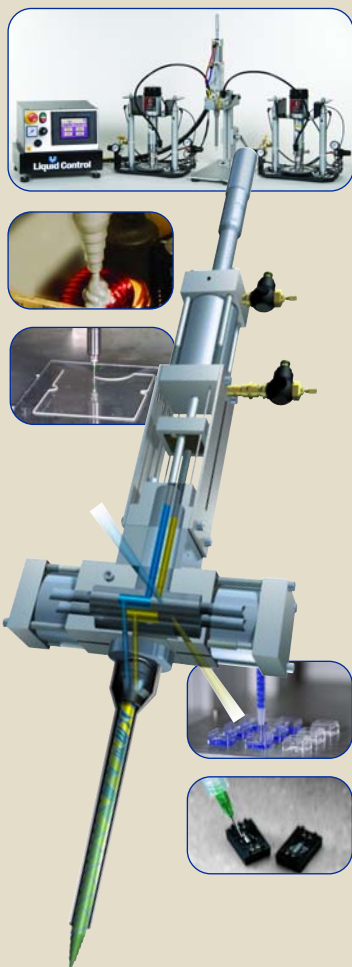
Polyurethane  
Silicones  
Epoxy

### FEATURES

Reliable and durable to maximize system  
performance  
High performance pumps result in high ratio  
accuracy  
Intuitive operator controls  
Multiple feed systems including PE and SST tanks  
MD2 dispense valve for accurate  
2-component dispensing  
Quick system training and lower mean time to repair

### BENEFITS

Low cost of maintenance and reduced downtime  
Reduce scrap and re-work  
Extended seal life and easy replacement  
Long pump life with no corrosion



## Posi-Ratio®/CTF Dispensing System

### TYPICAL APPLICATIONS

Electric potting, bonding & gasketing

### MATERIALS

Polysulfide  
Silicone  
Urethane  
Epoxy

### FEATURES

Accurate positive displacement metering pumps  
Ability to handle most material viscosities  
Machine mounted or handheld dispense valve  
Rugged heavy-duty construction  
Fixed or variable ratio design

### BENEFITS

Easy shot size and flow rate adjustment  
Easy ratio change  
Low maintenance and designed for easy service to reduce downtime



## DL™ Dispensing System

### TYPICAL APPLICATIONS

Laminating  
Filter bonding  
Continuous flow,  
Resin dispensing

### MATERIALS

Rigid urethanes  
Flexible urethanes  
Silicones  
High performance epoxies  
Syntactic foams

### FEATURES

Wide ratio and flow rate range  
Low maintenance  
Easy to program  
Choice of many engineered feed systems  
Motorless or dynamic mixers  
Compact portable modular design

### BENEFITS

Less downtime  
Optimal mixing  
Low maintenance



# Hot Melt Equipment Solutions



Therm-O-Flow® 200



Therm-O-Flow® 20/NXT



Therm-O-Flow® 20/Mini-5

## Therm-O-Flow® Bulk Melt Systems

### TYPICAL APPLICATIONS

- Insulating glass
- Automotive interiors
- RV lamination
- Window manufacturing
- Cable manufacturing
- Furniture assembly
- Door lamination
- Book binding
- Tape and label manufacturing

### MATERIALS

- Butyl Rubber
- Ethylene Vinyl Acetate (EVA)
- Polyamide
- Polyurethane Reactive (PUR)
- Pressure Sensitive Adhesives (PSA)
- Polyisobutylene (PIB)
- Warm Melt Sealers

### FEATURES

High melt rate even for high viscous materials

Advanced temperature control

Includes latest air motor technology

Improves process efficiency with:

- Low and empty sensors
- Electric cross over for tandem units
- QuikChange pump packages
- Cast-in heaters which, by normal use, never have to be replaced
- Self-diagnostics allow for predictive and preventive maintenance strategies

7 day timer

Temperature set-back and inactivity shut-off

Built-in runaway control

### BENEFITS

No temperature overshoot resulting in material degradation

Quiet, low icing air motors

Also used with abrasive materials

Less downtime

Ease of use





## Complete set of heated follower plates



### MegaFlo™ Fluid Plate (only for Therm-O-Flow 200)

- for high melt rates



200 l



20 l

### Smooth platens

- Even surface heats less material for maximum efficiency
- Ideal for higher-cost materials with low flow rates



200 l



20 l

### Finned platens

- Provide highest melt rate  
for high flow and hard-to-melt materials



## EasyKey™ User Interface

Advanced controls support  
manufacturing process improvement  
initiatives such as lean manufacturing

# Metering Equipment Solutions

## PrecisionFlo™ XL

### TYPICAL APPLICATIONS

Automotive bodyshop applications  
 Automotive paintshop applications  
 Industrial bead dispense applications:  
 glass/window, transportation, vending machines,  
 aerospace, appliances  
 Industrial and automotive applications  
 which use PrecisionSwirl

### MATERIALS

PVC  
 Epoxy  
 LASD  
 Silicone

### FEATURES

Closed loop "real time" pressure and flow  
 control supports continuous volume optimization  
 System autotune  
 Able to operate two fluid plates with one controller  
 Fully integrated accessory controls  
 Comprehensive data management  
 Multiple languages  
 Easy key or touch screen display  
 High pressure rating  
 Compact design  
 Flowmeter selection  
 (spur gear, helical gear, coriolis)

### BENEFITS

Accurate and consistent bead control  
 Saves set-up time and reduces time delay  
 Production and fault reporting,  
 automatically stored and retrieved  
 Mounts directly on robot shoulder  
 Components designed to handle filled,  
 abrasive and fragile materials  
 Working pressures up to 240 bar (24 Mpa)  
 High flowrates  
 Handles high viscous materials with less pressure drop  
 Suitable with extrude, spray,  
 stream and swirl applicators

## PrecisionSwirl™ Module

### TYPICAL APPLICATIONS

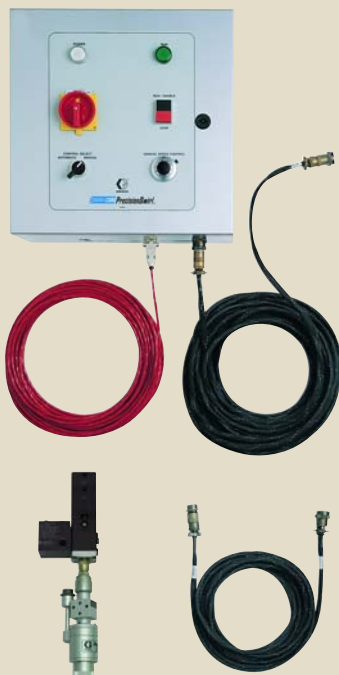
Hem flange adhesive bonding  
 Structural adhesive bonding  
 Bodypanel reinforcement  
 PVC seamsealing  
 After hem sealing  
 Liquid mask sealing  
 Underbody sound-deadeners

### MATERIALS

Heat cure epoxy  
 PVC plastisol  
 Expandable sealers  
 Liquid applied sound deadeners



**PrecisionFlo XL**  
 Precision Metering  
 and Dispensing System





# PrecisionFlo™ LT

## TYPICAL APPLICATIONS

Bead dispensing  
Seam sealing  
Hem flange  
Sound deadening  
Bonding  
Profile wrapping

## MATERIALS

PVC  
Epoxy  
Hot Melt / Warm Melt  
LASD  
Silicones

## FEATURES

Real time, closed-loop on pressure and or flow  
No reload time required  
Continuous flow  
Processes low to high material viscosities, flow rates and shot sizes  
Simple operator interface  
Multiple languages  
Processes ambient and Hot Melt materials up to 200°C  
Operates on fluid plate

## BENEFITS

Accurate and consistent bead control  
Fast response time  
A variety of materials can be used  
Easy to operate  
Mounts directly on robot shoulder



PrecisionFlo LT



Fluid Plate

## FEATURES

Provides a circular loop 'swirl' bead pattern  
Swirl pattern has uniform bead profile and consistent edges  
Swirl pattern can be varied along the bead path.  
Designed edge control  
Dispenses open or closed, wide or narrow pattern  
Also available as compact version

## BENEFITS

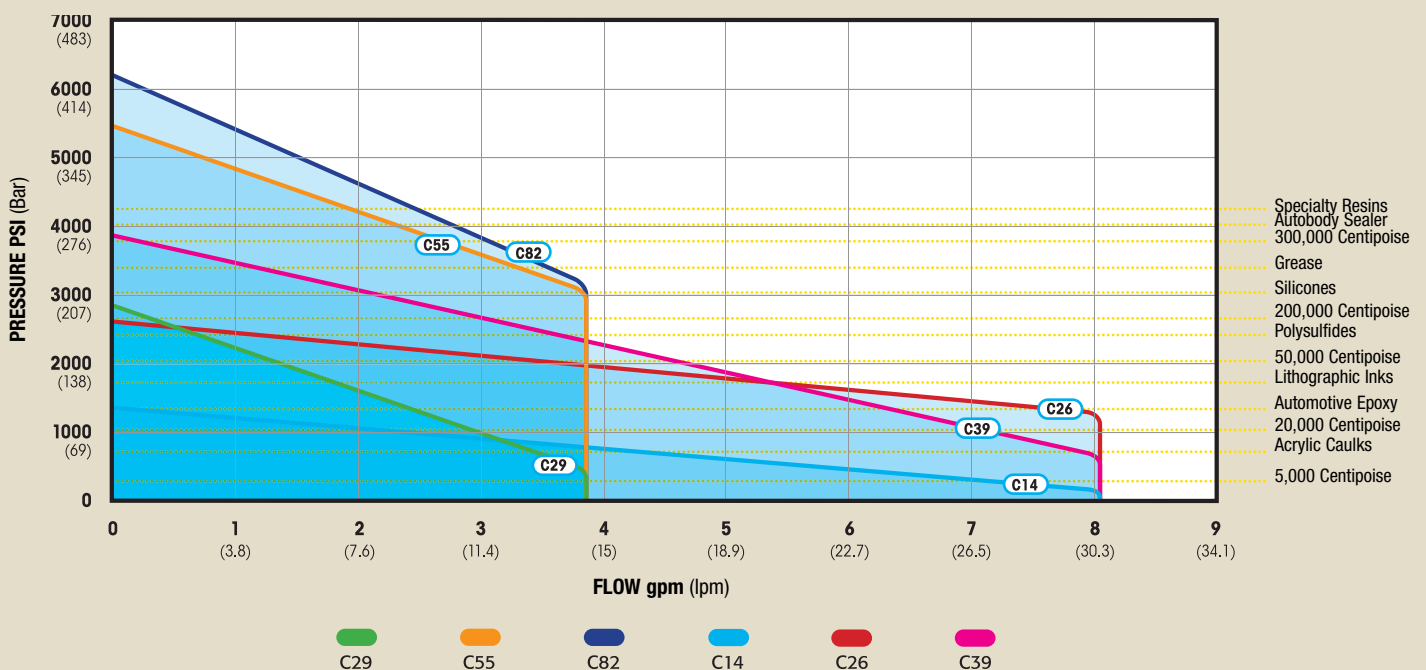
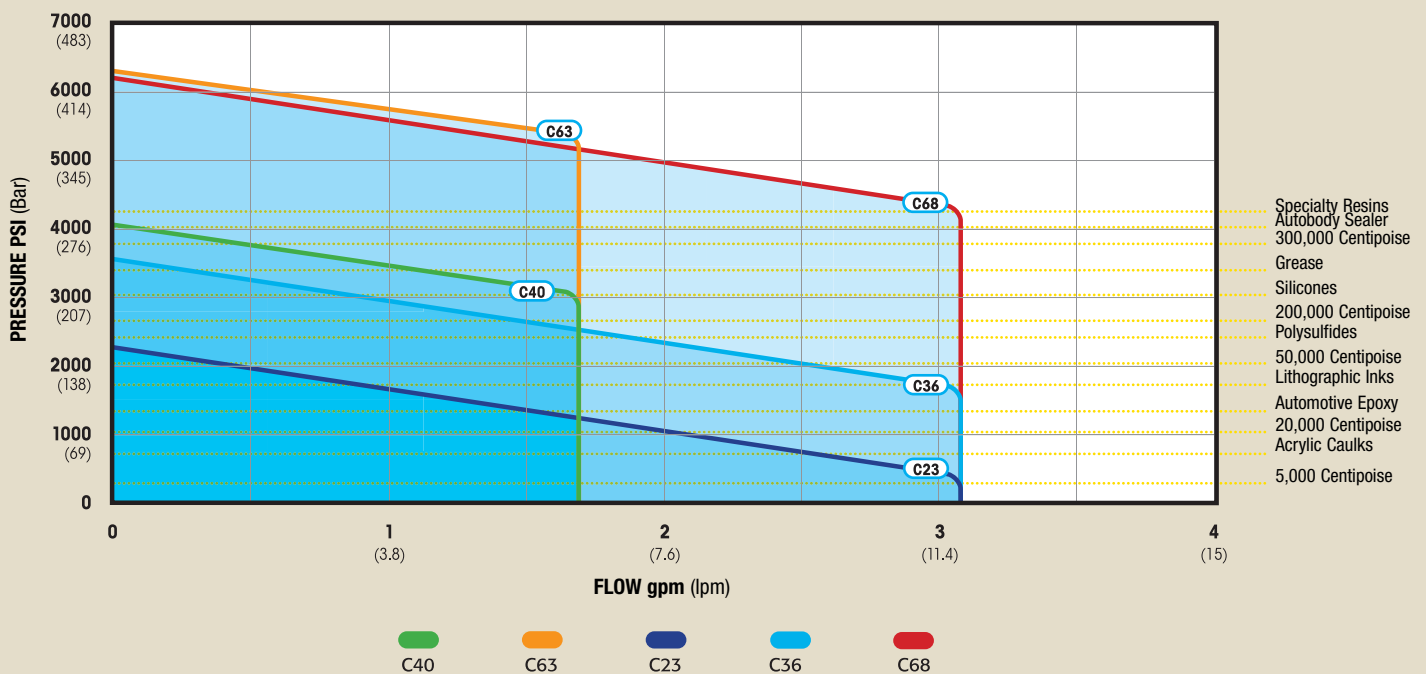
Increased tip standoff simplifies robot programming  
Swirl orbital applicator has no dynamic seals  
Add to PrecisionFlo XL to build a complete fluid handling system  
Tool-mounted and gun-mounted options available  
For areas difficult to reach with standard configuration

# Selecting the Right Graco 1K Bulk Supply System

## How to choose the right pump for your material

Use these charts to select the Check-Mate pump that's right for your material

- 1) Select your material type (urethane, epoxy, acrylic, silicone, etc.) and its viscosity
- 2) Select your flow rate
- 3) Choose a Graco Supply System based on where these points intersect



# Notes





## ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

## GRACO LOCATIONS

### CONTACT

#### *MAILING ADDRESS*

P.O. Box 1441  
Minneapolis, MN 55440-1441  
Tel: 612.623.6000  
Fax: 612.623.6777

### AMERICAS

#### *MINNESOTA*

Worldwide Headquarters  
Graco Inc.  
88-11th Avenue N.E.  
Minneapolis, MN 55413

### EUROPE

#### *BELGIUM*

European Headquarters  
Graco N.V.  
Industrieterrein-Oude Bunders  
Slakweidestraat 31  
3630 Maasmechelen,  
Belgium  
Tel: 32.89.770.700  
Fax: 32.89.770.777

### ASIA PACIFIC

#### *JAPAN*

Graco K.K.  
1-27-12 Hayabuchi  
Tsuzuki-ku  
Yokohama City, Japan 2240025  
Tel: 81.45.593.7300  
Fax: 81.45.593.7301

### ASIA PACIFIC

#### *CHINA*

Graco Hong Kong Ltd.  
Representative Office  
Room 118 1st Floor  
No.2 Xin Yuan Building  
No.509 Cao Bao Road  
Shanghai, P.R. China 200233  
Tel: 86.21.649.50088  
Fax: 86.21.649.50077

### ASIA PACIFIC

#### *KOREA*

Graco Korea Inc.  
Choheung Bank Building  
4th Floor #1599  
Gwanyang-Dong, Dongan-Ku,  
Anyang-Si, Gyeonggi-Do,  
Korea 431-060  
Tel: 82(Korea).31.476.9400  
Fax: 82(Korea).31.476.9801

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.

Graco is certified ISO 9001.

Europe  
+32 89 770 700  
FAX +32 89 770 777  
WWW.GRACO.BE