



# E-Flo<sup>®</sup> SP<sup>™</sup>

ELECTRIC PUMPS + SUPPLY SYSTEMS  
FOR SEALANTS AND ADHESIVES



PROVEN QUALITY. LEADING TECHNOLOGY

# E-Flo SP Electric Pump + Supply Systems



For industrial sealant and adhesive applications, Graco Electric Pumps and Supply Systems improve process performance, prevent downtime, reduce maintenance costs and increase electrical efficiency. E-Flo SP electric supply pumps are powered by an electric driver which provides real-time, integrated, closed-loop flow control. Trials have proven that the Graco solution provides superior performance and efficiency when compared to pneumatic supply pumps in constant pressure systems.

The Graco E-Flo SP enables the evolution of control strategies from constant-pressure to variable-flow. This revolutionary electric supply pump technology can be coupled with our Precision Continuous Flow (PCF) to provide real-time, closed-loop flow control.

## **Save Energy**

More efficient than pneumatic, constant pressure systems

## **Prevent Downtime**

The E-Flo SP lets users know how much work has been done by the pump, preventing unplanned maintenance

## **Lower Maintenance Cost**

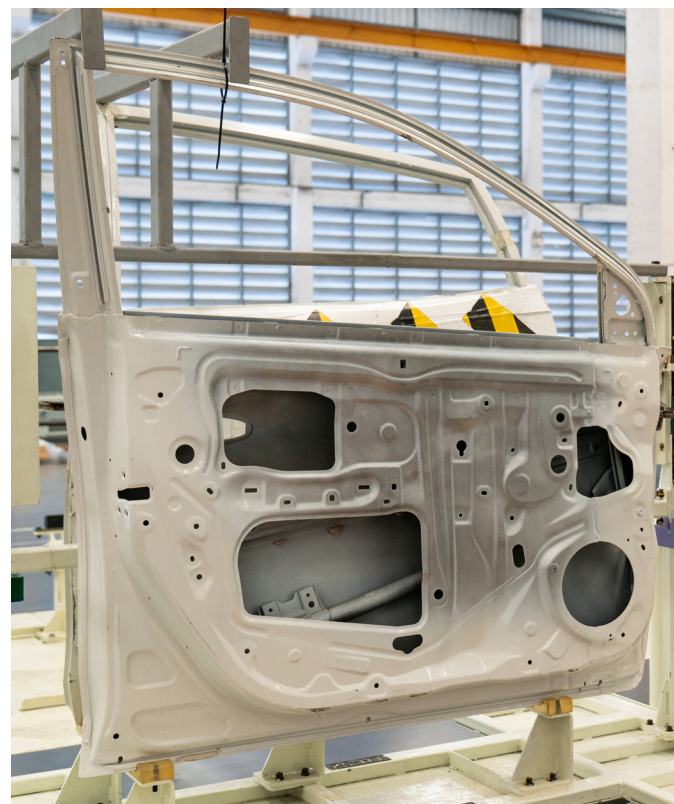
Coordinate multiple pump loads to evenly distribute load and reduce wear

## **Improve Quality**

Smooth, rapid changeovers and consistent flow

## **Improve Work Environment**

Quiet electric motor





# Improve Your Productivity + Throughput

## Energy Efficiency

The E-Flo SP provides the ability to impact process performance through a tighter control of the pump pressure and material flow rate. With real-time flow control strategies, systems can be designed and controlled to deliver only the energy that is required for the application process.

In addition to drastically increasing efficiency, these advanced control strategies also optimize process performance, reduce system downtime, and decrease total operating costs.

### Quiet Electric Motor

- Reduced noise levels

### High Power Electric Drive

- High Cycle Rate
- Improved Control
- No Icing

### Easy to Maintain

- Improved serviceability with fewer parts, faster repairs, and lower ownership costs



### Improved Control

- Accurately control system pressure and flow rate
- Integrate with PLC and robot controllers
- Local or remote commissioning, control and monitoring

### Proven Pump Technology

- Available with Check-Mate® or Dura-Flo® lowers
- Volumes from 100 – 500 cc
- Delivers fluid pressures up to 6000 psi
- Available as stand-alone pump in 20L, 30L, 60L or 200L Supply System (RAM) or 300 Gallon or 1000L UniDrum

## ELITE CONSTRUCTION™

For systems that need to supply highly abrasive thermal interface materials (TIMs), silicones, urethanes, and epoxies, E-Flo SP configuration options include pumps and lowers with Elite construction.

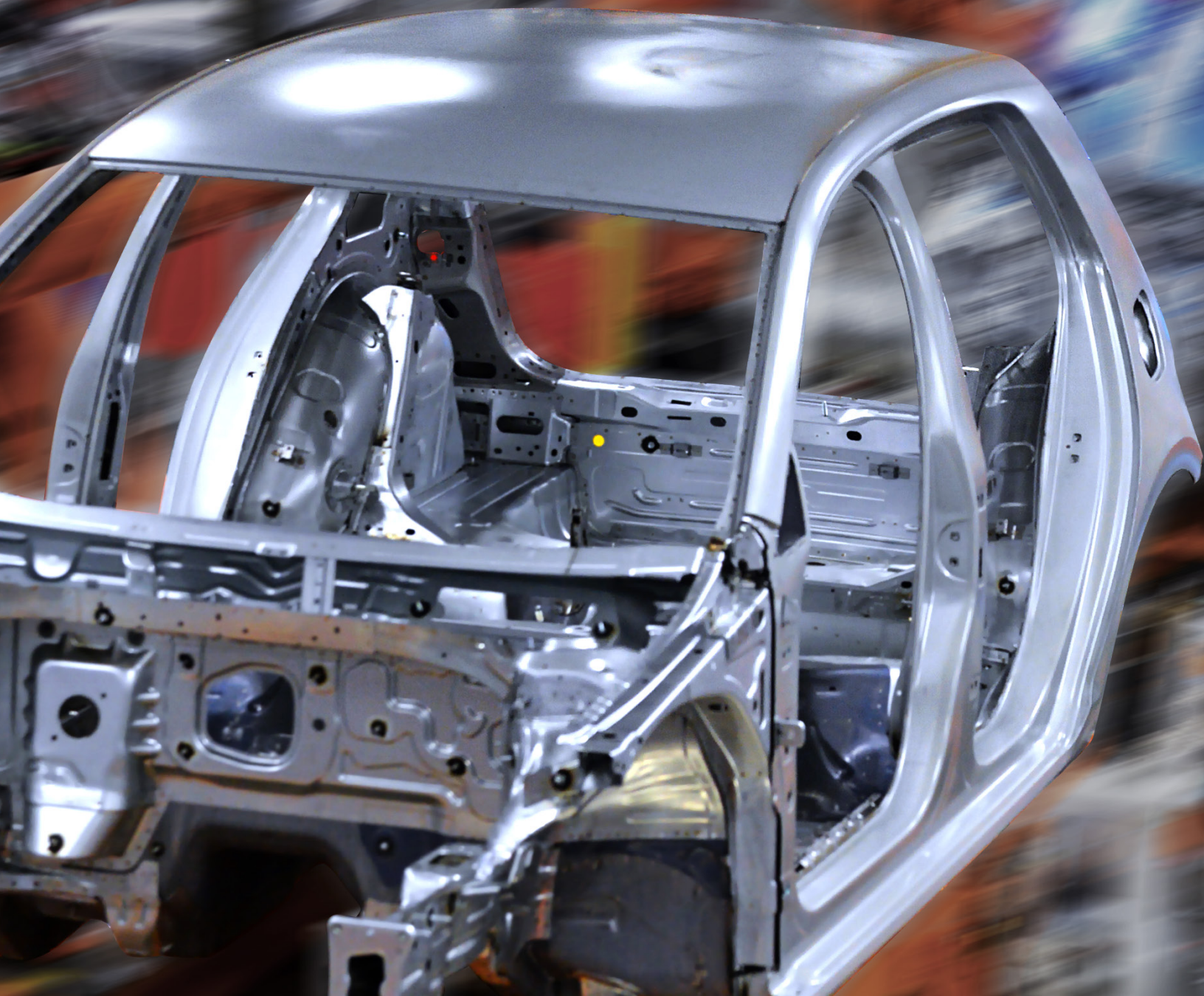
- With wear-resistant seals and surfaces, Elite Check-Mate Pumps can last 170 times longer than standard equipment.\*
- Elite Check-Mate Pumps with 100 cc lowers are proven to deliver 51,000 gallons (194,000 liters) of highly abrasive material across more than 1 million cycles.

\*Data verified when pumping representative thermal interface material (TIM) in Graco test environment





# ELECTRIC PUMPS





## E-Flo SP Electric Pump Ordering Information

Pump Style		Pump Type		Pump Size		Pump Material		Pump Material		Interface and Power Options			
E	Electric Pump	C	Check-Mate	100	100cc Check-Mate	C	Carbon Steel	S	Severe Duty	1	None	240 VAC	
										2	None	480 VAC	
				200	200cc Check-Mate	S	Stainless Steel	M	MaxLife®	3	ADM	240 VAC	
										4	ADM	480 VAC	
				250	250cc Check-Mate			E	Elite				
				500	500cc Check-Mate								
		D	Dura-Flo	115	115cc Dura-Flo	C	Carbon Steel	S	Severe Duty				
				145	145cc Dura-Flo	C	Carbon Steel	S	Severe Duty				
				180	180cc Dura-Flo	S	Stainless Steel						
				220	220cc Dura-Flo								
				290	290cc Dura-Flo								
				430	430cc Dura-Flo								
				430	430cc Dura-Flo	S	Stainless Steel	M	MaxLife				



# E-Flo SP Electric Pump Technical Specifications

	US	Metric
Driver Thrust	4115 lbs	1866kg
Stroke Length	4.75 in	120.7mm
Maximum fluid operating temperture	180° F	82.3° C
Amient operating system temperature range		
Motor cutback threshold	212° F	100° C
IGBT/electronics threshold	167° F	75° C
Maximum driver cycle rate	25 cycles per minute	
Driver line voltage rating	200-240 VAC, single phase, 50/60 Hz Transformer option available (400-480 VAC)	
Driver peak input amerpage	20 A per phase @ full load*	
Input current	20 A maximum	
Fluid Outlet Size - all pump materials		
Check-Mate 100, 200, 250	1 in. NPT, female	
Check-Mate 500	1-1/2 in. NPT, female	
Dura-Flo 115, 145, 180, 220, 290	1 in. NPT, female	
Dura-Flo 430	1-1/2 in. NPT, female	

\* Full load amps with all devices operating at maximum capabilities.

## System Pressure

Name	Lower Size	Max Working/Run Pressure (ADM Setpoint)		Max Deadhead Pressure	
		psi	bar	psi	bar
Check-Mate	100CS/CM/SS/SM/CE	6000	414	6000	414
Check-Mate	100CE	4200	290	5500	380
Check-Mate	200CS/CM/SS/SM/CE	3220	222	4200	290
Check-Mate	250CS/CM/SS/SM/CE	2580	178	3400	234
Check-Mate	500CS/CMSS/SM/CE	1290	88.9	1600	110
Dura-Flo	145SS	4440	306	5600	386
Dura-Flo	180SS	3580	247	4500	310
Dura-Flo	220SS	2930	202	3700	255
Dura-Flo	290SS	2220	153	2800	193
Dura-Flo	430CS/SS/SM	1500	103	1900	131
Dura-Flo	115CS	5600	386	6000	414
Dura-Flo	145CS	4440	306	5600	386
Dura-Flo	180CS	3580	247	4500	310
Dura-Flo	220CS	2930	202	3700	255
Dura-Flo	290CS	2220	153	2800	193

## Flow Rate Table

Name	Lower Size	Flow Rate (cc/min)	Flow Rate (gpm)	Outlet Fitting Size
Check-Mate	100CS/CM/SS/SM/CE	2500	0.66	1 in. NPT female
Check-Mate	200CS/CM/SS/SM/CE	5000	1.32	1 in. NPT female
Check-Mate	250CS/CM/SS/SM/CE	6250	1.65	1 in. NPT female
Check-Mate	500CS/CM/SS/SM/CE	12500	3.30	1-1/2 in. NPT female
Dura-Flo	145SS	3625	0.96	1 in. NPT female
Dura-Flo	180SS	4500	1.19	1 in. NPT female
Dura-Flo	220SS	5500	1.45	1 in. NPT female
Dura-Flo	290SS	7250	1.92	1 in. NPT female
Dura-Flo	430CS/SS/SM	10750	2.84	1-1/2 in. NPT female
Dura-Flo	115CS	2875	0.76	1 in. NPT female
Dura-Flo	145CS	3625	0.96	1 in. NPT female
Dura-Flo	180CS	4500	1.19	1 in. NPT female
Dura-Flo	220CS	5500	1.45	1 in. NPT female
Dura-Flo	290CS	7250	1.92	1 in. NPT female



# SUPPLY SYSTEMS





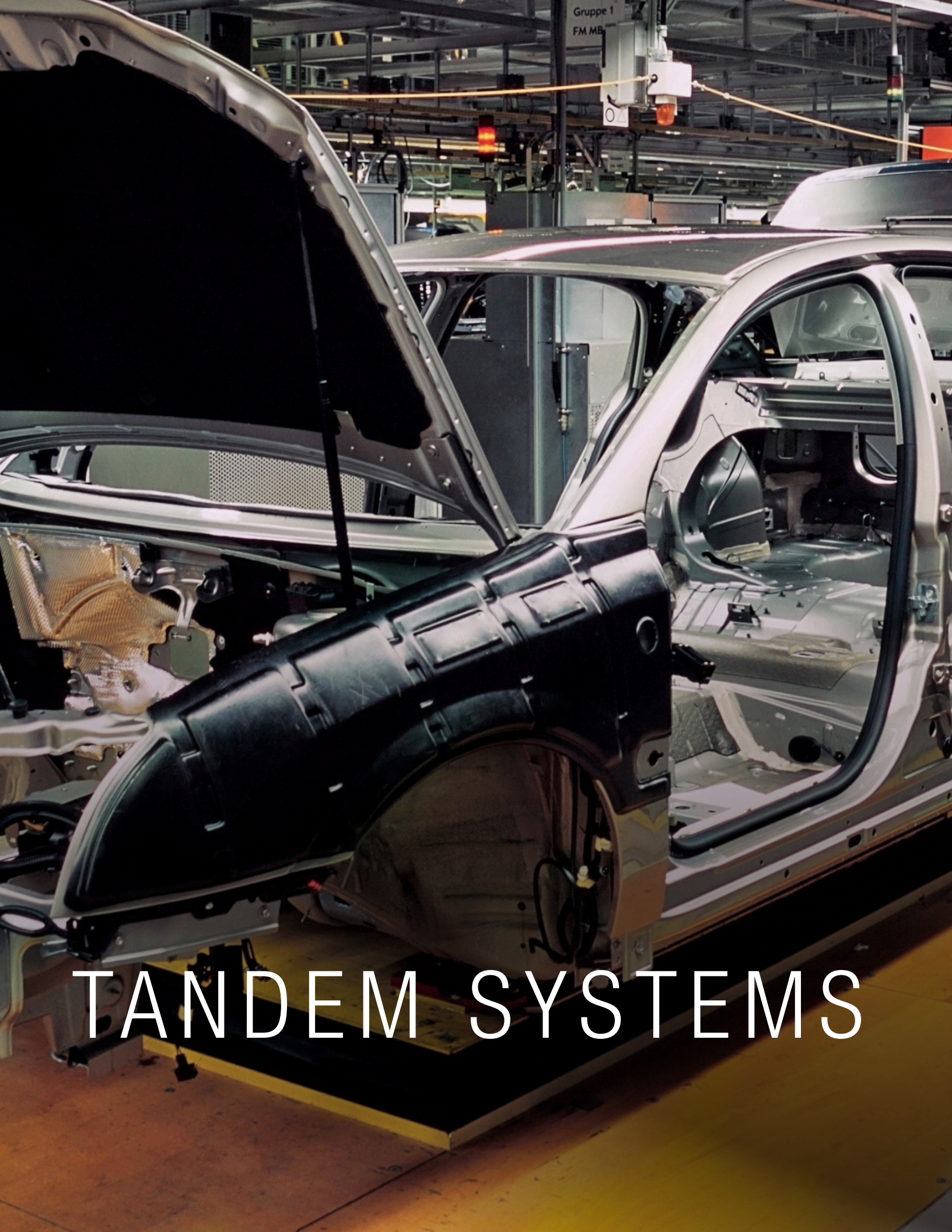
## E-Flo SP Supply System Ordering Information

Supply System Style		Pump Type		Ram Size		Platen and Seal Options		Interface and Power Options					
EM	Electric Supply System	C1	Check-Mate 100cc, CS	1	D60	1	No Platen	1	None	240 VAC			
		C2	Check-Mate 100cc, CM	2	D200	2	20l (5-gal), F, SW, CS, Nitrile	2	None	480 VAC			
		C3	Check-Mate 100cc, SS	3	D200s	3	20l (5-gal), F, SW, CS, Polyurethane	3	ADM	240 VAC			
		C4	Check-Mate 100cc, SM			4	20l (5-gal), F, DW, CS, Nitrile	4	ADM	480 VAC			
		C5	Check-Mate 200cc, CS			5	20l (5-gal), F, DW, CS, Polyurethane						
		C6	Check-Mate 200cc, CM			6	20l (5-gal), F, SW, SS, PTFE Coated						
		C7	Check-Mate 200cc, SS			7	200l (55-gal), DR, PTFE Coated AL, EPDM						
		C8	Check-Mate 200cc, SM			8	200l (55-gal), DR, AL, EPDM						
		C9	Check-Mate 250cc, CS			9	200l (55-gal), DR, AL, Neoprene						
		CA	Check-Mate 250cc, CM			A	200l (55-gal), DR, AL, EPDM Hose						
		CB	Check-Mate 250cc, SS										
		CC	Check-Mate 250cc, SM										
		CD	Check-Mate 500cc, CS										
		CE	Check-Mate 500cc, CM										
		CF	Check-Mate 500cc, SS										
		CG	Check-Mate 500cc, SM										
		CJ	Check-Mate 200cc, CS, Elite										
		CH	Check-Mate 100cc, CS, Elite										
		CM	Check-Mate 250cc, CS, Elite										
		CK	Check-Mate 500cc, CS, Elite										
		D1	Dura-Flo 115cc, CS										
		D2	Dura-Flo 145cc, CS										
		D3	Dura-Flo 145cc, SS										
		D4	Dura-Flo 180cc, CS										
		D5	Dura-Flo 180cc, SS										
		D6	Dura-Flo 220cc, CS										
		D7	Dura-Flo 220cc, SS										
		D8	Dura-Flo 290cc, CS										
		D9	Dura-Flo 290cc, SS										
		DA	Dura-Flo 430cc, CS										
		DB	Dura-Flo 430cc, SS										
		DC	Dura-Flo 430cc, SM										



Not all supply system configurations are listed. Please contact your Graco representative for a comprehensive list of available options.





TANDEM SYSTEMS



## E-Flo SP Tandem System Ordering Information

1. Configure Supply Systems		
1. A	Supply System "A"	
	Select system A with an ADM	
1. B	Supply System "B"	
	Select system B without an ADM	
2. Tandem Connection Kit		Product Number
	Select Tandem Connection Kit - 25E595 (Quantity 1)	25E595
		1
3. Accessories		
3.A	Depressurization/Recirculation Kit	Product Number
	For Carbon Steel Pump Lower	25E618
	For Stainless Steel Pump Lower	25E619
3. B	Fluid Filter Kit	25E620
3. C	Extension Cables for Fluid Filter Monitoring Pressure Transducers	
	1 meter	124943
	2 meters	122497
	3 meters	124409
	7.5 meters	17H363
	16 meters	17H364
3. D	Low Level Sensor Kit*	25E447
		2
4. Hoses		
	For Check-Mate Pump Lower sizes of 100cc, 200cc, 250cc	Maximum 5,000 psi pressure rating
	For Check-Mate Pump Lower size of 500cc	Maximum 2,000 psi pressure rating
	For Dura-Flo Pump Lower sizes of 115cc, 145cc, 180cc, 200cc, 220cc, 290cc	Maximum 5,000 psi pressure rating
	For Dura-Flo Pump Lower size of 430cc	Maximum 2,000 psi pressure rating
Notes		
* Rams come with Empty Level Sensors already installed		





UNIDRUM SYSTEMS



## E-Flo SP UniDrum Ordering Information

1000 Liter Unit

Part Number	Material	Pump Size	Pump Type	Voltage	Left/Right Hand Door
26D395	Carbon Steel	290cc	CS/Severe Duty	230V	Left
26D396		290cc	CS/Severe Duty	400V/Y	Left
26D397		290cc	CS/Severe Duty	480V	Left
26D392		430cc	CS/Severe Duty	230V	Left
26D393		430cc	CS/Severe Duty	400V/Y	Left
26D394		430cc	CS/Severe Duty	480V	Left
26D398		430cc	SS/MaxLife	230V	Left
26D399		430cc	SS/MaxLife	400V/Y	Left
26D400		430cc	SS/MaxLife	480V	Left
26D416		430cc	CS/Severe Duty	400V/Y	Left
26D401	Stainless Steel	430cc	SS/MaxLife	230V	Left
26D402		430cc	SS/MaxLife	400V/Y	Left
26D403		430cc	SS/MaxLife	480V	Left
26D407	Carbon Steel	290cc	CS/Severe Duty	230V	Right
26D408		290cc	CS/Severe Duty	400V/Y	Right
26D409		290cc	CS/Severe Duty	480V	Right
26D404		430cc	CS/Severe Duty	230V	Right
26D405		430cc	CS/Severe Duty	400V/Y	Right
26D406		430cc	CS/Severe Duty	480V	Right
26D410		430cc	SS/MaxLife	230V	Right
26D411		430cc	SS/MaxLife	400V/Y	Right
26D412		430cc	SS/MaxLife	480V	Right
26D417		430cc	CS/Severe Duty	400V/Y	Right
26D413	Stainless Steel	430cc	SS/MaxLife	230V	Right
26D414		430cc	SS/MaxLife	400V/Y	Right
26D415		430cc	SS/MaxLife	480V	Right



## E-Flo SP UniDrum Ordering Information

### 300 Gallon Unit

Part Number	Material	Pump Size	Pump Type	Voltage	Left/Right Hand Door
26D371	Carbon Steel	290cc	CS/Severe Duty	230V	Left
26D372		290cc	CS/Severe Duty	400V/Y	Left
26D373		290cc	CS/Severe Duty	480V	Left
26D368		430cc	CS/Severe Duty	230V	Left
26D369		430cc	CS/Severe Duty	400V/Y	Left
26D370		430cc	CS/Severe Duty	480V	Left
26D374		430cc	SS/MaxLife	230V	Left
26D375		430cc	SS/MaxLife	400V/Y	Left
26D376		430cc	SS/MaxLife	480V	Left
26D377	Stainless Steel	430cc	SS/MaxLife	230V	Left
26D378		430cc	SS/MaxLife	400V/Y	Left
26D379		430cc	SS/MaxLife	480V	Left
26D383	Carbon Steel	290cc	CS/Severe Duty	230V	Right
26D384		290cc	CS/Severe Duty	400V/Y	Right
26D385		290cc	CS/Severe Duty	480V	Right
26D380		430cc	CS/Severe Duty	230V	Right
26D381		430cc	CS/Severe Duty	400V/Y	Right
26D382		430cc	CS/Severe Duty	480V	Right
26D386		430cc	SS/MaxLife	230V	Right
26D387		430cc	SS/MaxLife	400V/Y	Right
26D388		430cc	SS/MaxLife	480V	Right
26D389	Stainless Steel	430cc	SS/MaxLife	230V	Right
26D390		430cc	SS/MaxLife	400V/Y	Right
26D391		430cc	SS/MaxLife	480V	Right

### Accessories

26D318	Kit, UniDrum, Tandem, Cables
26D425**	Kit, ADM, Light Tower, UniDrum
26D426	Kit, Communications Gateway Module, UniDrum, Ethernet IP
26D427	Kit, Communications Gateway Module, UniDrum, DeviceNet
26D428	Kit, Communications Gateway Module, UniDrum, ProfiNet
26D429	Kit, Communications Gateway Module, UniDrum, ProfiBus

\*\*You must order an ADM/Light Tower kit for one single unit, or one tandem pair system. Only one ADM/Light Tower kit is required for a tandem system.



# Graco has you covered

## Unmatched Quality.

Our focus on continued innovation keeps Graco Fluid Automation at the forefront of fluid handling technology. We typically reinvest three times the industry average into research and development. Our mission is to provide customers with products that result in the **lowest total cost of ownership** while maximizing product quality and business success.

## Global Presence.

With facilities located in Europe, Asia Pacific and the United States, Graco provides a personalized, **end-to-end partnership experience**. Our engineers will lead the solution planning, testing and refining of your solution in our regional labs to ultimately overseeing the product installation process.

## Global Support.

After installation, **in-person support** will be available from our worldwide distribution network of trained and certified distributors who offer relevant experience, product knowledge and responsive service.

There is no better reassurance than Graco technology, product innovation and the people committed to helping you succeed all day, every day.

## Contact us today!

Call **800-746-1334** to speak with a Graco representative, visit **[www.graco.com](http://www.graco.com)** for more information.



©2024 Graco Inc. 350216 Rev. D 05/24 All other brand names or marks are used for identification purposes and are trademarks of their respective owners. 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.

### AMERICAS

#### MINNESOTA

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

#### MAILING ADDRESS

P.O. Box 1441  
Minneapolis, MN 55440-1441

#### OHIO

8400 Port Jackson Ave NW,  
North Canton, OH 44720

### EUROPE

#### BELGIUM

Graco BVBA  
Industrieterrein-Oude Bunders  
Slakweidestraat 31  
B-3630 Maasmechelen,  
Belgium  
Tel: 32 89 770 700  
Fax: 32 89 770 777

### ASIA PACIFIC

#### AUSTRALIA

Graco Australia Pty Ltd.  
Suite 17, 2 Enterprise Drive  
Bundoora, Victoria 3083  
Australia  
Tel: 61 3 9468 8500  
Fax: 61 3 9468 8599

#### CHINA

Graco Hong Kong Ltd.  
Shanghai Representative Office  
Building 7  
1029 Zhongshan Road South,  
Huangpu District  
Shanghai, 200011  
The People's Republic of China  
Tel: 86 21 649 50088  
Fax: 86 21 649 50077

#### INDIA

Graco India Pvt Ltd.  
India Office  
Plot No-295  
Udyog Vihar Phase IV  
Gurgaon, Haryana, India 122001  
Tel: 91 124 435 4208  
Fax: 91 124 435 4001

#### JAPAN

Graco K.K.  
1-27-12 Hayabuchi  
Tsuzuki-ku  
Yokohama City, Japan 2240025  
Tel: 81 45 593 7300  
Fax: 81 45 593 7301

#### KOREA

Graco Korea Inc.  
38, Samsung 1-ro 1-gil  
Hwaseong-si,  
Gyeonggi-do, 1849,  
South Korea  
Tel: 82 31 8015 0961  
Fax: 82 31 613 9801