



# E-Flo<sup>®</sup> SP

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 Costs**

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

## 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

## 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.



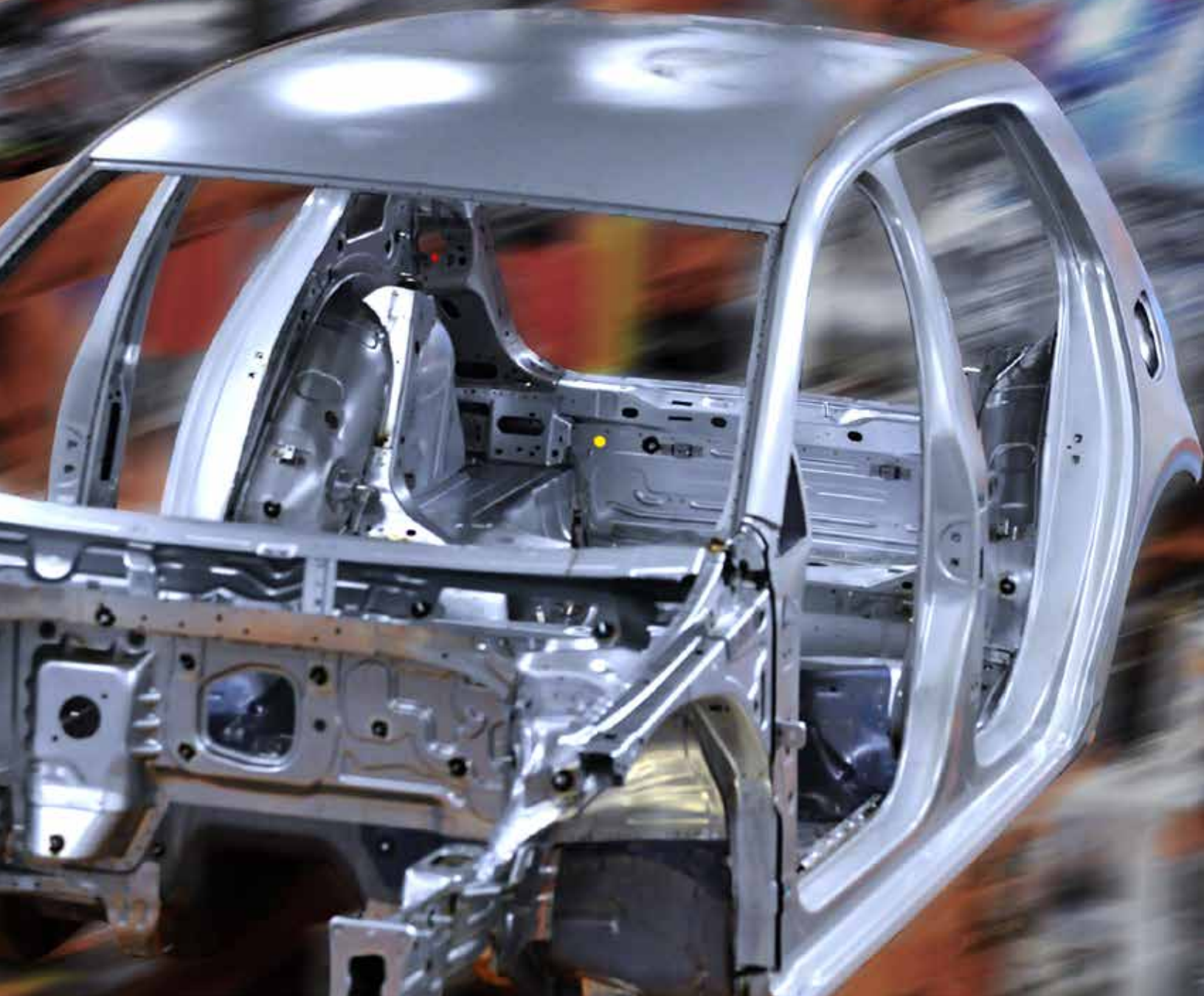
## Improved Control

- 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 or in 20L, 30L, 60L or 200L Supply System (RAM)

# 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	SevereDuty	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																				
																500	500cc Check-Mate								
				D	Dura-Flo	115	115cc Dura-Flo	C	Carbon Steel	S	SevereDuty														
																145	145cc Dura-Flo	C	Carbon Steel	S	SevereDuty				
																220	220cc Dura-Flo								
																430	430cc Dura-Flo								



# E-Flo SP Electric Pump Technical Specifications

	US	Metric
Driver Thrust	4,840 lbs	21.5 kN, 2.2 kg
Stroke Length	4.75 in.	120.7 mm
Maximum fluid operating temperature	180° F	82.3° 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 amperage	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-Flow 115, 145, 180, 220, 290	1 in. NPT, female	
Dura-Flow 430	1-1/2 in. NPT, female	
Maximum Fluid Working Pressure		
100cc Check-Mate - All	6000 psi	414 bar, 41.4 MPa
200cc Check-Mate - All	4200 psi	290 bar, 29.0 MPa
250cc Check-Mate - All	3400 psi	234 bar, 23.4 MPa
500cc Check-Mate - All	1600 psi	110 bar, 11.0 MPa
145cc Dura-Flo - SS	5600 psi	386 bar, 38.6 MPa
180cc Dura-Flo - SS	4500 psi	310 bar, 31.0 MPa
220cc Dura-Flo - SS	3700 psi	255 bar, 25.5 MPa
290cc Dura-Flo - SS	2800 psi	193 bar, 19.3 MPa
430cc Dura-Flo - SS	1900 psi	131 bar, 13.1 MPa
115cc Dura-Flo - CS	6000 psi	414 bar, 41.4 MPa
145cc Dura-Flo - CS	5600 psi	386 bar, 38.6 MPa
180cc Dura-Flo - CS	4500 psi	310 bar, 31.0 MPa
220cc Dura-Flo - CS	3700 psi	255 bar, 25.5 MPa
290cc Dura-Flo - CS	2800 psi	193 bar, 19.3 MPa
Notes		
* Full load amps with all devices operating at maximum capabilities.		

# SUPPLY SYSTEMS



# E-Flo SP Supply System Ordering Information

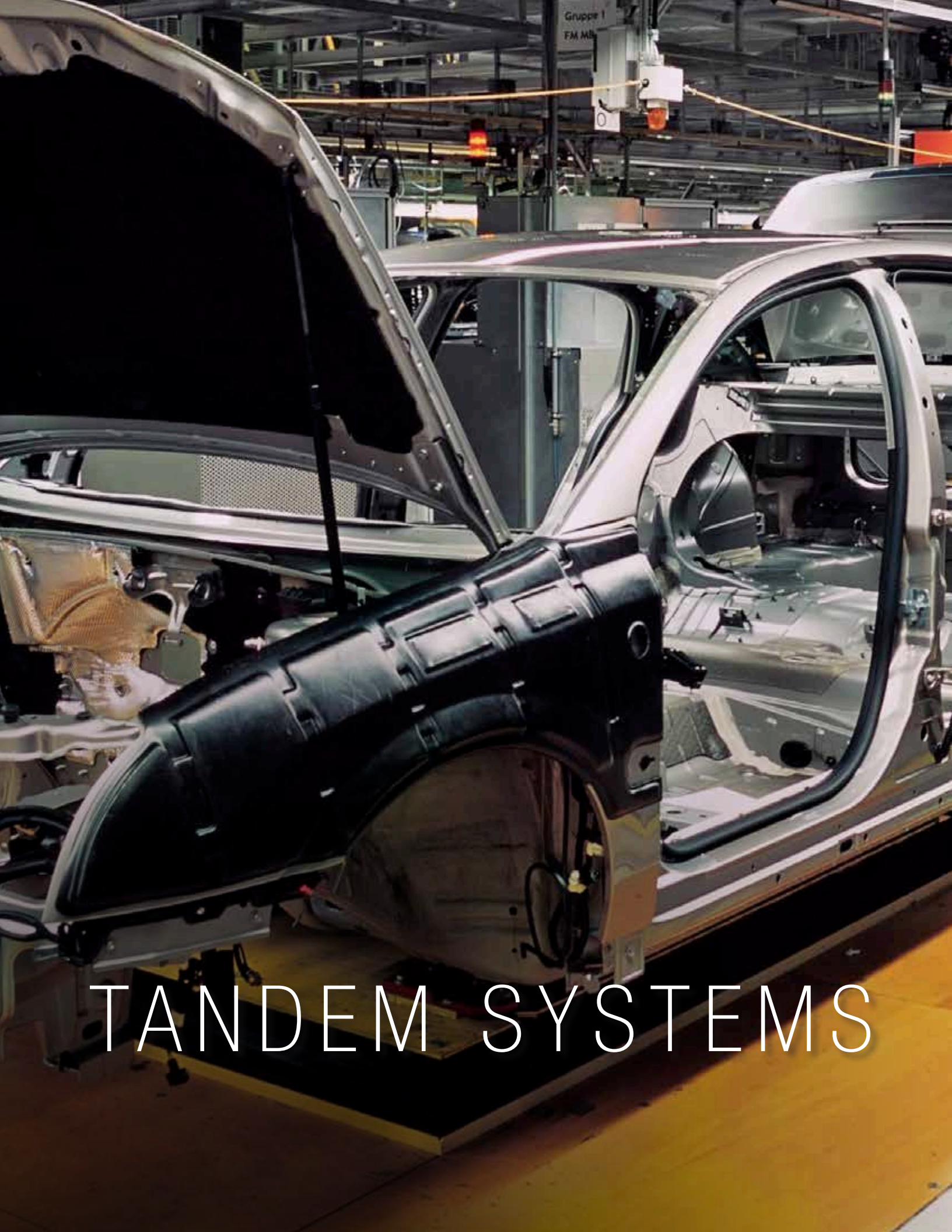
Supply System Style		Pump Type		Ram Size		Platen and Seal Options		Interface and Power Options		
EM	Electric Supply System	C1	Check-Mate 100cc, CS	1	D60	1	No Platen	1	None	240 VAC
		C2	Check-Mate 100cc, CM	2	D200	2	20l (5-gal), F, SW, CS, Nitrile	2	None	480 VAC
		C3	Check-Mate 100cc, SS	3	D200s	3	20l (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, CS			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							
		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							



# E-Flo SP Supply System

## Technical Specifications Information

	US	Metric
Driver Thrust	4,840 lbs	21.5 kN, 2.2 kg
Stroke Length	4.75 in.	120.7 mm
Maximum fluid operating temperature	180° F	82.3° C
Maximum driver cycle rate	25 cycles per minute	
Driver line voltage rating	200-240 VAC, single phase, 50/60 Hz	
Driver peak input amperage	20 A per phase @ full load*	
Air inlet size (supply system)	3/4 npt(f)	
Ambient operating temperature range (supply system)	32-120°F	0-49°C
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-Flow 115, 145, 180, 220, 290	1 in. NPT, female	
Dura-Flow 430	1-1/2 in. NPT, female	
Maximum Fluid Working Pressure		
100cc Check-Mate - All	6000 psi	414 bar, 41.4 MPa
200cc Check-Mate - All	4200 psi	290 bar, 29.0 MPa
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220cc Dura-Flo - CS	3700 psi	255 bar, 25.5 MPa
290cc Dura-Flo - CS	2800 psi	193 bar, 19.3 MPa
Maximum air input pressure (supply system)		
D60 - 3 in. dual post, 5 gal. (20 L)	150 psi	1.0 MPa, 10 bar
D200 - 3 in. dual post, 55 gal. (200 L)	150 psi	1.0 MPa, 10 bar
D200s - 6.5 in. dual post, 55 gal. (200 L)	125 psi	0.9 MPa, 9 bar
Notes		
* Full load amps with all devices operating at maximum capabilities.		



TANDEM SYSTEMS

# E-Flo SP Tandem System Ordering Information

1. Configure Supply Systems			
1. A	Supply System "A"		
	Select your first supply system with an ADM (Quantity 1)*		
1. B	Supply System "B"		
	Configure Tandem Ram "B" - E-Flo SP Ram without an ADM		
2. Tandem Connection Kit		Product Number	Quantity
	Select Tandem Connection Kit - 25E595 (Quantity 1)	25E595	1
3. Accessories			
3.A	Depressurization/Recirculation Kit	Product Number	Quantity
	For Carbon Steel Pump Lower	25E618	2
	For Stainless Steel Pump Lower	25E619	2
3. B	Fluid Filter Kit	25E620	1
3. C	Extension Cables for Fluid Filter Monitoring Pressure Transducers		
	1 meter	124943	2
	2 meters	122497	2
	3 meters	124409	2
	7.5 meters	17H363	2
	16 meters	17H364	2
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			
*One ADM can control up to 3 Tandem Systems.			
** Rams come with Empty Level Sensors already installed			

# 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.



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## 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.  
Shinhan Bank Building  
4th Floor #1599  
Gwangyang-Dong, Dongan-Ku,  
Anyang-si, Korea 431-060  
Tel: 82 31 476 9400  
Fax: 82 31 476 9801