



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 constantpressure 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

Coordinates 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



Improved Control

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

Proven Pump Technology

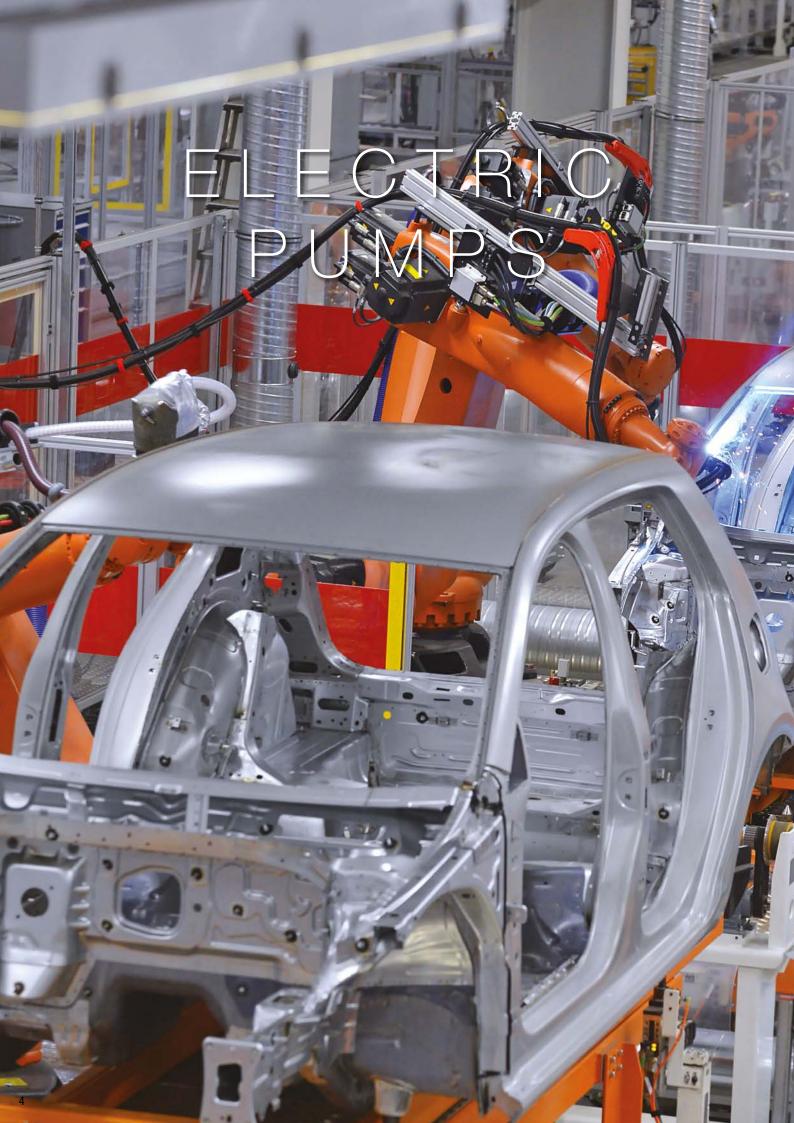
- Available with Check-Mate[®] or Dura-flo® lowers
- Volumes from 100 500 cc
- Delivers fluid pressures up to 414 bar (6000 psi)
- Available as a stand-alone pump or in 20L, 30L, 60L or 200L Supply System (RAM)

Energy Efficiency

ownership costs

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.



E-Flo SP Electric Pump Ordering Information

F	Pump Style		Pump Type Pump Size		ımp Size	Pu	mp Material	rial Plimn Material				erface and er Options	
E	Electric Pump	С	Check-	100	100cc	С	Carbon Steel	S	SevereDuty	1	None	240 VAC	
			Mate	100	Check-Mate			0	ouverebuty	2	None	480 VAC	
				200	200cc	S	Stainless	М	MaxLife	3	ADM	240 VAC	
				200	Check-Mate	3	Steel	IVI	MaxLife	4	ADM	480 VAC	
				250	250cc Check-Mate								
				500	500cc Check-Mate								
		D	Dura-Flo	115	115cc Dura-Flo	С	Carbon Steel	S	SevereDuty				
				145	145cc Dura-Flo	С	Carbon Steel	S	SevereDuty				
				180	180cc Dura-Flo	S	Stainless Steel						
				220	220cc Dura-Flo								
				290	290cc Dura-Flo								
				430	430cc Dura-Flo	1							
				430	430cc Dura-Flo	S	Stainless Steel	Μ	MaxLife				







E-Flo SP Electric Pump Technical Specifications

	US	Metric			
Driver Thrust	4,840 lbs	21.5 kN, 2,200 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 - tzransformer option available (400-480 VAC)				
Driver peak input amerpage	20 A per phase @ full load amps with all devices operating at maximum capabilities.				
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				

			Pump W	orking (Stall)	Pressure	Max Dynamic (Run) Pressure			
	Name	Lower Size	psi	bar	MPa	psi	bar	МРа	
	Check-Mate	100CS/CM/SS/SM	6000	414	41.4	6000	414	41.4	
	Check-Mate	200CS/CM/SS/SM	4200	290	29.0	3905	269	26.9	
Ъ	Check-Mate	250CS/CM/SS/SM	3400	234	23.4	2122	215	21.5	
<u> </u>	Dura-Flow	500CS/CM/SS/SM	1600	110	11.0	1487	103	10.3	
SU	Dura-Flow	145SS	5600	386	38.6	5204	359	35.9	
e S	Dura-Flow	180SS	4500	310	31.0	4164	287	28.7	
РГG	Dura-Flow	220SS	3700	255	25.5	3470	239	23.9	
	Dura-Flow	290SS	2800	193	19.3	2602	179	17.9	
em	Dura-Flow	430CS/SS/SM	1900	131	13.1	1735	120	12.0	
ST(Dura-Flow	115CS	6000	414	41.4	6000	414	41.4	
	Dura-Flow	145CS	5600	386	38.6	5204	359	35.9	
S	Dura-Flow	180CS	4500	310	31.0	4164	287	28.7	
	Dura-Flow	220CS	3700	255	25.5	3470	239	23.9	
	Dura-Flow	290CS	2800	193	19.3	2602	179	17.9	

	Name	Lower Size	Flow Rate (cc/min)	Flow Rate (gpm)	Outlet Fitting Size
	Check-Mate	100CS/CM/SS/SM	2500	0.66	1 in. NPT female
	Check-Mate	200CS/CM/SS/SM	5000	1.32	1 in. NPT female
	Check-Mate	250CS/CM/SS/SM	6250	1.65	1 in. NPT female
Ð	Dura-Flow	500CS/CM/SS/SM	12500	3.30	1-1/2 in. NPT female
ab	Dura-Flow	145SS	3625	0.96	1 in. NPT female
-	Dura-Flow	180SS	4500	1.19	1 in. NPT female
te	Dura-Flow	220SS	550	1.45	1 in. NPT female
Ra	Dura-Flow	290SS	7250	1.92	1 in. NPT female
	Dura-Flow	430CS/SS/SM	10750	2.84	1-1/2 in. NPT female
≥	Dura-Flow	115CS	2875	0.76	1 in. NPT female
	Dura-Flow	145CS	3625	0.96	1 in. NPT female
	Dura-Flow	180CS	4500	1.19	1 in. NPT female
	Dura-Flow	220CS	5500	1.45	1 in. NPT female
	Dura-Flow	290CS	7250	1.92	1 in. NPT female

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SUPPLY SYSTEMS

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E-Flo SP Supply System Ordering Information

	Supply stem Style		Ритр Туре	R	am Size		Platen and Seal Options	Interface and Power Option		
	Electric	C1	Check-Mate 100cc, CS	1	D60	1	No Platen	1	None	240 VA
EM	Supply	C2	Check-Mate 100cc, CM	2	D200	2	20I (5-gal), F, SW, CS, Nitrile	2	None	480 VA
	System	C3	Check-Mate 100cc, SS	3	D200s	3	20I (5-gal), F, SW, CS, Polyurethane	3	ADM	240 VA
		C4	Check-Mate 100cc, SM			4	20I (5-gal), F, DW, CS, Nitrile	4	ADM	480 VA
		C5	Check-Mate 200cc, CS			5	20I (5-gal), F, DW, CS, Polyurethane			
		C6	Check-Mate 200cc, CM			6	20I (5-gal), F, SW, SS, PTFE Coated			
		C7	Check-Mate 200cc, SS			7	200I (55-gal), DR, PTFE Coated AL, EPDM			
		C8	Check-Mate 200cc, SM			8	200I (55-gal),DR, AL, EPDM			
		C9	Check-Mate 250cc, CS			9	200I (55-gal),DR, AL, Neoprene			
		CA	Check-Mate 250cc, CM			Α	200I (55-gal),DR, AL, EPDM Hose			
		СВ	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					A12		
		D4 [.]	Dura-Flo 180cc, CS						0	
		D5 [.]	Dura-Flo 180cc, SS						D. 000K	
		D6 [.]	Dura-Flo 220cc, CS					U		CHE COL
		D7 [.]	Dura-Flo 220cc, SS				Eflasp	6	-	
		D8 [.]	Dura-Flo 290cc, CS							
		D9 [.]	Dura-Flo 290cc, SS						E.	
		DA [.]	Dura-Flo 430cc, CS							
		DB [.]	Dura-Flo 430cc, SS				- 1			
			Dura-Flo 430cc, SM							

* Dura-Flo supply systems can be made available on request. Please contact your Graco representative.

E-Flo SP Supply System Technical Specifications Information

	US	Metric				
Driver Thrust	4,840 lbs	21.5 kN, 2.200 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 amerpage	20 A per phase @ Full load amps with all devic	20 A per phase @ Full load amps with all devices operating at maximum capabilities.				
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					

		Pump W	orking (Stall)	Pressure	Max Dy	ynamic (Run) Pressure		
	Name	Lower Size	psi	bar	МРа	psi	bar	MPa
	Check-Mate	100CS/CM/SS/SM	6000	414	41.4	6000	414	41.4
	Check-Mate	200CS/CM/SS/SM	4200	290	29.0	3905	269	26.9
b	Check-Mate	250CS/CM/SS/SM	3400	234	23.4	2122	215	21.5
<u> </u>	Dura-Flow	500CS/CM/SS/SM	1600	110	11.0	1487	103	10.3
Su	Dura-Flow	145SS	5600	386	38.6	5204	359	35.9
e S	Dura-Flow	180SS	4500	310	31.0	4164	287	28.7
P	Dura-Flow	220SS	3700	255	25.5	3470	239	23.9
	Dura-Flow	290SS	2800	193	19.3	2602	179	17.9
em	Dura-Flow	430CS/SS/SM	1900	131	13.1	1735	120	12.0
st	Dura-Flow	115CS	6000	414	41.4	6000	414	41.4
	Dura-Flow	145CS	5600	386	38.6	5204	359	35.9
S	Dura-Flow	180CS	4500	310	31.0	4164	287	28.7
	Dura-Flow	220CS	3700	255	25.5	3470	239	23.9
	Dura-Flow	290CS	2800	193	19.3	2602	179	17.9

Flow Rate Table

	Dura-Flow	29003	2000	193	19.3	2002	179	17.9
	Name	Lower Size	Flow Rate	e (cc/min)	Flow Ra	te (gpm)	Outlet Fit	tting Size
	Check-Mate	100CS/CM/SS/SM	25	00	0.	66	1 in. NP	T female
	Check-Mate	200CS/CM/SS/SM	50	00	1.	32	1 in. NP	T female
	Check-Mate	250CS/CM/SS/SM	62	50	1.	65	1 in. NP	T female
Ð	Dura-Flow	500CS/CM/SS/SM	125	500	3.	30	1-1/2 in. N	IPT female
d D	Dura-Flow	145SS	36	25	0.	96	1 in. NP	T female
	Dura-Flow	180SS	45	00	1.	19	1 in. NP	T female
	Dura-Flow	220SS	55	50	1.	45	1 in. NP	T female
	Dura-Flow	290SS	72	50	1.	92	1 in. NP	T female
	Dura-Flow	430CS/SS/SM	107	750	2.	84	1-1/2 in. N	IPT female
	Dura-Flow	115CS	28	75	0.	76	1 in. NP	T female
Ē	Dura-Flow	145CS	36	25	0.	96	1 in. NP	T female
	Dura-Flow	180CS	45	00	1.	19	1 in. NP	T female
	Dura-Flow	220CS	55	00	1.	45	1 in. NP	T female
	Dura-Flow	290CS	72	50	1.	92	1 in. NP	T female

TANDEM SYSTEMS

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E-Flo SP Tandem System Ordering Information

1.A	Supply System "A"			
	Select system A with an ADM			
1.B	Supply System "B"			
	Select system B without an ADM			
2. Tanc	lem Connection Kit	Product Number	Quantity	
	Select Tandem Connection Kit - 25E595 (Quantity 1)	25E595	1	
B. Acce	ssories			
3.A	Depressurization/Recirculation Kit	Product Number	Quanitity	
	For Carbon Steel Pump Lowers	25E618	2	
	For Stainless Steel Pump Lowers	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	
I. Hos	es			
	For Check-Mate Pump Lower sizes of 100cc, 200cc, 250cc	Maximum 345 Bar (5, pressure rating	000 psi)	
	For Check-Mate Pump Lower size of 500cc	Maximum 138 Bar (2, pressure rating	000 psi)	
	For Dura-Flo Pump Lower sizes of 115cc, 145cc, 180cc, 200cc, 220cc, 290cc	Maximum 345 Bar (5, pressure rating	000 psi)	
	For Dura-Flo Pump Lower size of 430cc	Maximum 138 Bar (2,000 psi) pressure rating		
lotes				



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

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 Distribution Center Graco Distribution BVBA Industrieterrein-Oude Bunders Slakweidestraat 31 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 Hong Kong Ltd. India Liaison Office Room 432, Augusta Point Regus Business Centre 53 Golf Course Road 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, 18449 Republic of Korea Tel: 82 31 8015 0961 Fax: 82 31 613 9801

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

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

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