

E-FLO® SP™

Electric Pumps + Supply Systems For Sealants And Adhesives



MOVING MATERIALS THAT MATTER™

E-FLO SP ELECTRIC PUMP + SUPPLY SYSTEMS

IMPROVE YOUR PRODUCTIVITY + THROUGHPUT



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

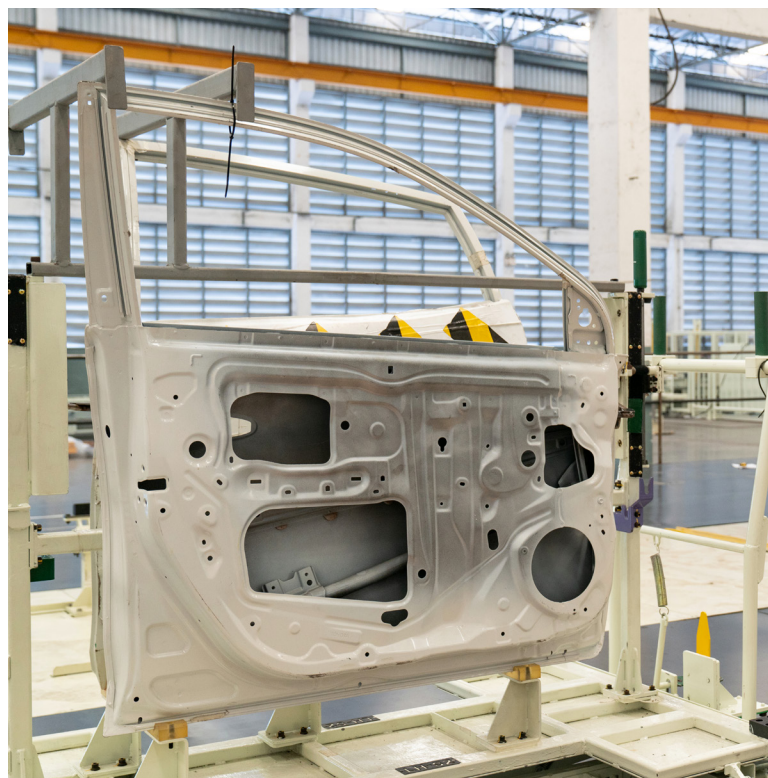
Coordinate multiple pump loads to evenly distribute load and reduce wear.

IMPROVE QUALITY

Smooth, rapid changeovers and consistent flow.

IMPROVE WORK ENVIRONMENT

Quiet electric motor.



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



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.



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

E-FLO SP ELECTRIC PUMPS



ORDERING INFORMATION

PUMP STYLE		PUMP TYPE		PUMP SIZE		PUMP MATERIAL		PUMP MATERIAL		INTERFACE & 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					

TECHNICAL SPECIFICATIONS

	US	Metric
Driver Thrust	4115 lbs	1866 kg
Stroke Length	4.75 in	120.7 mm
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.



E-FLO SP ELECTRIC PUMPS



SYSTEM PRESSURE

		Max Working/Run Pressure (ADM Setpoint)		Max Deadhead Pressure	
Name	Lower Size	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

		Flow Rate		Outlet Fitting Size
Name	Lower Size	cc/min	gpm	
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/CMSS/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

E-FLO SP SUPPLY SYSTEMS



ORDERING INFORMATION

SUPPLY SYSTEM STYLE		PUMP TYPE		RAM SIZE		PLATEN AND SEAL OPTIONS		INTERFACE & 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.

E-FLO SP TANDEM SYSTEMS

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	Quantity
	Select Tandem Connection Kit - 25E595 (Quantity 1)	25E595	1
3. Accessories			
3.A	Depressurization/Recirculation Kit		
	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
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			



ORDERING INFORMATION – 1000 L 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

ORDERING INFORMATION

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

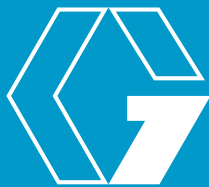
ACCESSORIES

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.	





MOVING MATERIALS THAT MATTER™



For more information visit graco.com

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