



E-Flo[®] 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 Cost

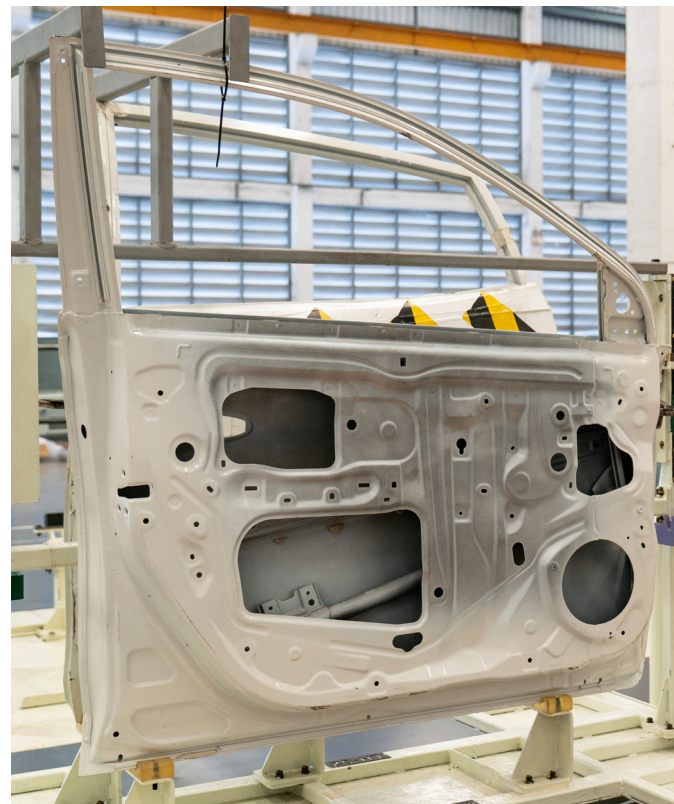
Coordinate multiple pump loads to evenly distribute load and reduce wear

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

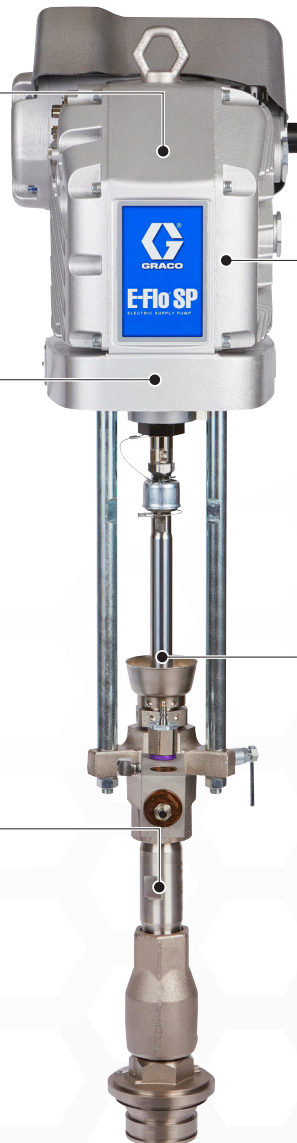
- Improved serviceability with fewer parts, faster repairs, and lower ownership costs

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

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 | | | | | | | | | |
| | | | | 200 | 200cc Check-Mate | | | | | S | Stainless Steel | M | MaxLife® | 2 | None | 480 VAC | | | | | |
| | | | | 250 | 250cc Check-Mate | | | | | | | | | | | | | | | | |
| | | | | 500 | 500cc Check-Mate | | | | | | | | E | Elite | 3 | ADM | 240 VAC | | | | |
| | | | | D | Dura-Flo | | | | | | | | 115 | 115cc Dura-Flo | C | Carbon Steel | S | SevereDuty | 4 | ADM | 480 VAC |
| | | | | 145 | 145cc Dura-Flo | | | | | | | | C | Carbon Steel | S | SevereDuty | | | | | |
| | | | | 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 temperature | 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 ampage | 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 | 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 | 2580 | 178 | 3400 | 234 |
| Check-Mate | 500CS/CMSS/SM | 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 | 6250 | 1.65 | 1 in. NPT female |
| Check-Mate | 500CS/CM/SS/SM | 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

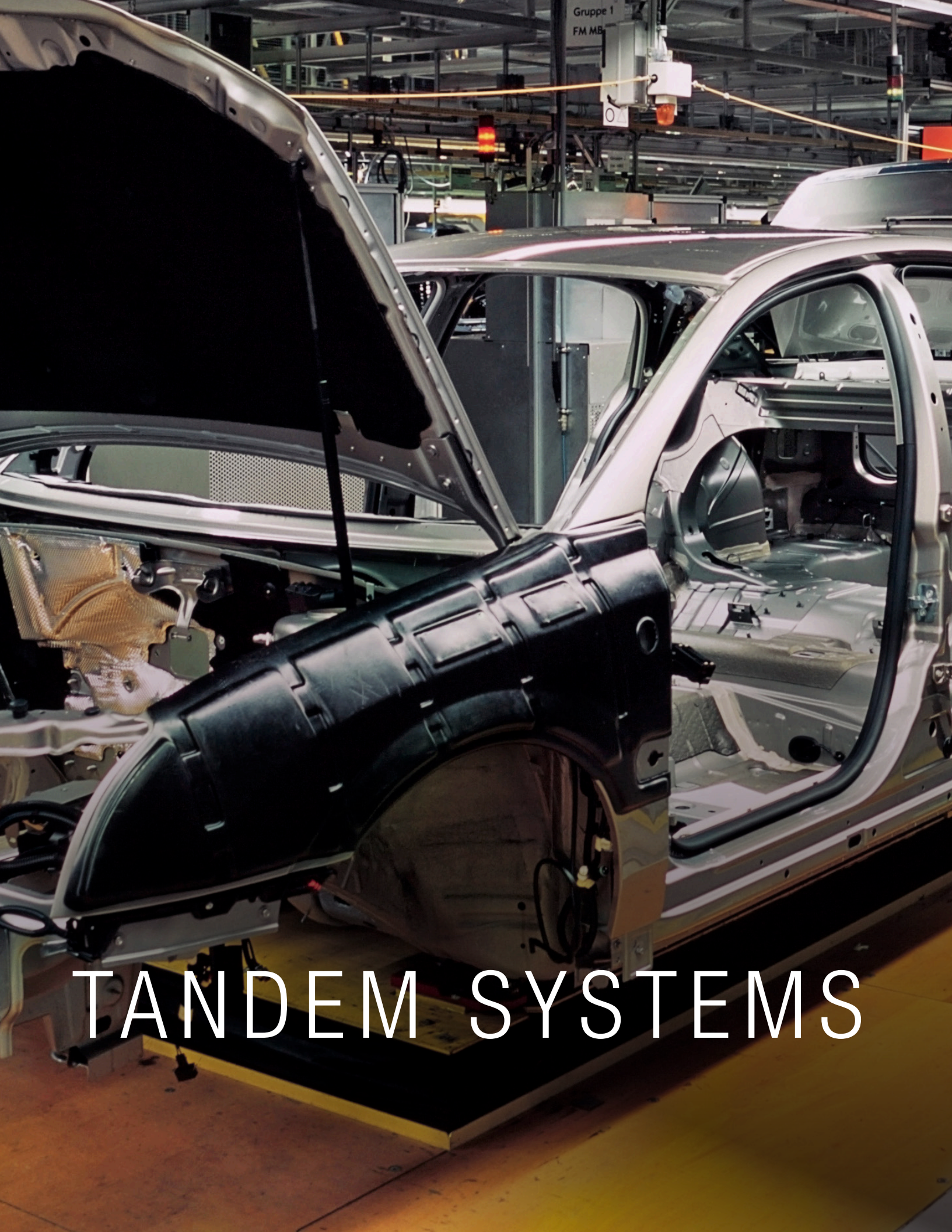


E-Flo SP Supply System Ordering Information

| 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 | | | | | | | |
| | | 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 | 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 | | | |
| * 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 |
| 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 |
| 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 |
| 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** for more information.



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