



Circulation Pumps

High Performance Industrial Pumps



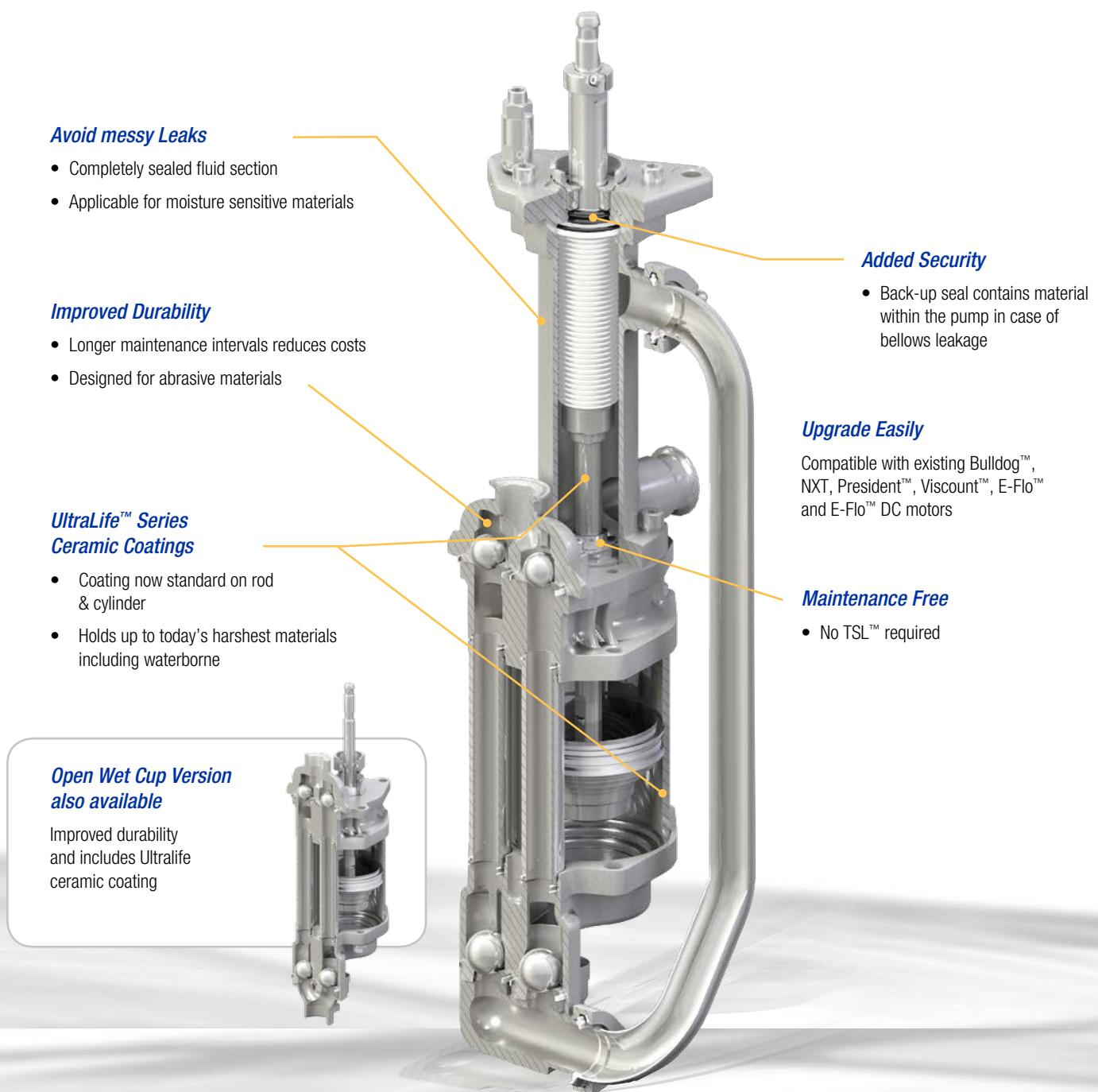
PROVEN QUALITY. LEADING TECHNOLOGY.

Minimize Downtime & Reduce Costs

Graco's New Sealed 4-ball Lowers

Downtime is frustrating and costly. To help keep you up-and-running and keep expenses in check, Graco designed a new sealed lower that not only has longer maintenance cycles, but it is also easier, faster and cheaper to replace than an entire pump assembly. Because the new lower is completely sealed, it can be used for every pumping application in your mix room, including catalyzed coatings. Common components make it simpler to maintain your pump, and it reduces inventory level on repair parts.

Plus our positive displacement piston pumps displace fluid in both directions of the stroke, providing low cycle rates and high flow, ideal for applications using shear-sensitive materials.





Which System is Right for You?

No matter your need, Graco has a pump for your circulation application. Whether it's electric, pneumatic or hydraulic, Graco pumps help you get the job done right with superior results.

And because our new Sealed 4-ball Lower is compatible with most Graco motors, it makes it a great option for new or existing installations.

Typical Applications

- Paint circulation
- Fluid transfer and supply

Typical Fluids Handled

- Waterborne and solventborne paints
- Catalyzed coatings
- Moisture-sensitive materials
- UV-cure coatings

ELECTRIC

HYDRAULIC

PNEUMATIC



E-Flo™ DC



Viscount™



President™



High-Flo™

Electric Piston Pumps

Make the Switch to Savings

Get the benefits of a pneumatic motor with the energy efficiency of an electric drive unit!

Our E-Flo™ DC (Dual Control) electric circulating pump has been found to be up to five times more efficient than similar sized pneumatic pumps – lowering your energy bill and saving you money. Quiet pumping technology means you get a better work environment, and advanced features allow you to prevent costly material loss and rework.



Why Choose E-Flo DC Electric?

Save Energy

Up to 5x more efficient than pneumatic

Prevent Material Loss

Integrated runaway protection protects your pump from premature wear and prevents costly material loss

Eliminate Costly Rework

Electric motor eliminates icing – giving you smoother pump operation and better finished product

Improve Quality

Less pulsation and smooth, rapid changeovers – for better, more consistent finishes

Improve Work Environment

Quiet electric air motor



E-Flo DC

Output up to 2000 cc/cycle

Legacy E-Flo

Output up to 4000 cc/cycle

Achieve Higher Flow Rates

We doubled our original 4-ball DC circulation pump technology to give you less pulsation, increased flow rates and less downtime.

Unlike competitive pumps that are linked and controlled together, E-Flo DC's lowers operate independently. This allows the pump to adjust to varying pressure and flow rate demands thousands of times per second resulting in minimal pressure fluctuations.

Each pump can also run alone to keep production running if maintenance is required.



E-Flo DC High Flow Rate

Output up to 4000 cc/cycle

E-FLo™ DC

Supply Pump

Our supply pump features an energy efficient electric motor that stalls under pressure and changes speeds to maintain constant pressure. This 2-ball electric supply pump is ideal for your high pressure applications such as waterborne spraying or circulation of high-viscosity materials.

Reasons to buy the E-Flo DC Supply Pump:

- **Efficiency:** 5x more efficient than an air motor
- **Dual Control (DC) Modes:** Maintains either a constant pressure or a constant flow rate
- **Local Control:** Easy control with two knobs
- **Easy Installation:** Requiring only 220 volt single-phase power. No VFD's required.
- **Integrated Runaway Protection:** Prevents material loss and premature wear to the pump
- **Multiple Sizes Available:** 290 cc, 220 cc, 180 cc, and 145 cc displacement lowers



E-Flo DC Supply

Maximum pressure of 206 bar (3000 psi)

Boost Your Bottom Line

E-Flo DC Advanced Motor with Control Module

Boost Your Bottom Line with Energy Savings and Advanced Pump Control.

Efficient and smart, the E-Flo DC with Advanced Control Module gives you additional control of pump performance.



Control Module

- Integrate the pump easily into a PLC Network for better visibility and control outside of the hazardous area
- Configure different operating profiles of pump
- Up to two pressure transducers can be added for greater control
- Connect pneumatic BPR controller to automate an "off-production" profile for even greater energy savings
- Password protect pump settings to prevent unauthorized access

Basic Motor

Operator-friendly control knobs have clear symbols making it easy to adjust pump settings. Gives you local control at the pump and runaway protection.

Simple to Install

Basic installation requires only a single-phase *110/220 V, 50/60 Hz power

No VFD's Required.

* 110 V power available with 1HP motor only.



Save Energy

5x More Efficient

Electric motor means big savings when compared to similar-sized pneumatic motors – helping lower your energy bill and saving you money.

Improve Quality

Advanced Control Module allows you to easily integrate the pump into a PLC network for even greater control and visibility.

Dual Control (DC) technology gives you less pulsation and smooth, rapid changeovers – for better, more consistent finishes.

Boost Your Profits

Integrated runaway protection protects your pump from premature wear and prevents costly material loss.

Electric motor eliminates icing – giving you smoother pump operation, better finished product & eliminate costly rework.

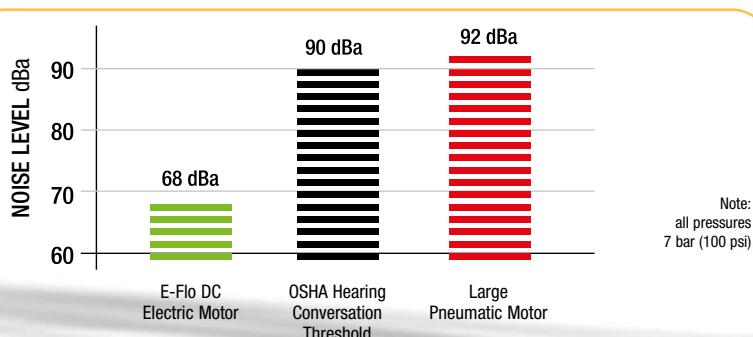
Use less energy and spend less on maintenance costs with the field proven reliability of Graco's 2- and 4-ball pumps.

Improve Productivity

Electric pump functionality, with the simplicity of a pneumatic pump, means less time training.

Increased reliability means you'll spend less time maintaining and more time up and running.

Quiet electric motor means happier operators and better results
Exceeds OSHA sound regulations and over 20 dbA's quieter
compared to similar-sized pneumatic motors.



Control Module & Cable

If **Basic** motor control is desired, your pump selection is complete.

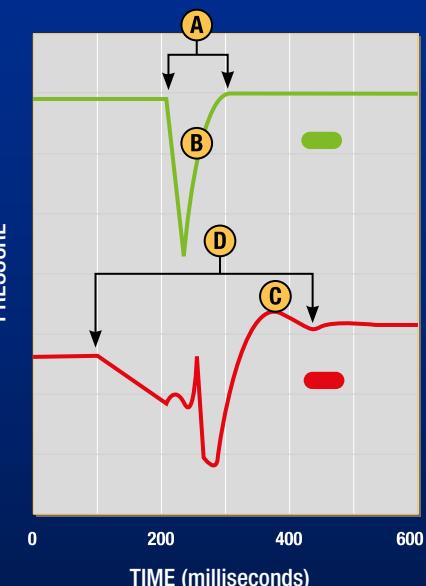
If **Advanced** motor control is desired, a Control Module and CAN Cable will be required. Determine the desired mounting location of the Control Module. The Control Module can be mounted directly on the pump or on a nearby wall. Select the appropriate CAN cable length from the table below.

High flow rate circulation pumps (2X) include the Control Module and CAN Cable.

No additional equipment is required.

Part Number	Description
24P822	Control Module Kit
16P911	1 m (3 ft) CAN Cable
16P912	8 m (25 ft) CAN Cable

Changeover Comparison



- (A) Less than 0.09 second changeover
- (B) Quick changeover and recovery with less pulsation
- (C) Pressure spike at changeover
- (D) Longer changeover causing pulsation

Pneumatic Piston Pumps

Easy to Install and Maintain

Graco pneumatic pumps set the standard for long-lasting durability. These pumps are built to handle the toughest finishing applications, keep you up and running longer and give you outstanding performance! They are simple, reliable, and with a slow-moving reciprocating motion, do not damage the paint like centrifugal and other rotary pumping technologies. They are also inherently safe for hazardous locations.



Why Choose High-Flo Pneumatic?

Saves Time

Easy to install since most plants have air available and ready to use

Easy to Maintain

Modular design for easier maintenance

Easy to Use

Field-proven reliable equipment

Dependable

Rugged body armor, won't rust or dent

Eliminates Stalling

De-icing controls eliminate stalling

Safe for Hazardous Locations

No sources of electrical ignition

DataTrak™

Efficient and smart, DataTrak gives you additional control of pump performance and allows you to manage several pumps from a single module.

- Runaway protection
- Pump diagnostics
- Tracks material usage

High-Flo™

Variety of flowrates available



Decades of Proven Reliability with the President™

Graco's high volume President circulating pumps allow you to handle mid-range flow requirements while operating at low cycle rates. The pump lower requires fewer cycles per litre and longer intervals between seal replacement.

- Excellent abrasion and corrosion resistance
- Stainless steel and carbon steel wetted parts for a wide range of fluids
- Large porting for excellent priming and handling of high viscosity fluids
- Low cost of ownership



President™

Output up to 890 cc/cycle



Endura-FLo™ DC

High Pressure Diaphragm Pumps

Don't risk unscheduled downtime because of equipment failure. The simple design of Endura-Flo not only ensures long-lasting durability, but it also withstands runaway conditions better than other diaphragm pumps.

This easy-to-install pump offers low pulsation output and smooth changeover for excellent pressure characteristics.

The simplified fluid path allows for quick colour changes, saving you time and money. Plus it has the highest pressure ratio in the industry at 4:1.

- Redesigned diaphragm lasts longer and can hold up to extreme operating conditions better
- Easy access to critical components provide fast online maintenance
- Superior durability for abrasive materials
- Minimal solvent to flush and consistent startup pressure make it ideal for multiple colour change and piggable systems
- DataTrak prevents runaway and tracks material usage

Hydraulic Piston Pumps

Simple, Proven Design

Field proven, energy efficient 4-ball Viscount™ piston pumps provide reliable, quiet, ice-free performance and are up to 4x more energy efficient than comparable compressed air systems.

Viscount motors have a long-life packing design and stainless steel wetted parts with neoprene packings for long-lasting durability. With two hydraulic motor types, Graco has the right size to meet your application needs.

Why Choose Viscount Hydraulic?

Save Energy

Up to 4x more efficient than pneumatics

Low Maintenance Costs

Operates in a closed system to prevent contamination

Quiet Operation

Motors do not exhaust to atmosphere

High Performance

Stronger performance pressure curve than pneumatics

Low Investment Costs

Greater flexibility with more reserve capacity than pneumatics

Space Savings

Great for areas with limited floor space

Viscount™

Variety of flowrates available

Pumps Specifications

E-Flo DC Circ Pump Specifications

Model	750	1000	1500	2000	3000	4000
Output per Cycle	750 cc	1000 cc	1500 cc	2000 cc	3000 cc	4000 cc
Maximum Working Pressure bar (psi)	20.6 (285)	1 hp: 13.8 (210) 2 hp: 27.6 (380)	20.6 (285)	2 hp: 15 (220) 2 x 2 hp: 27.6 (380) [◊]	20.6 (285) [◊]	210 (14.5) [◊]
Output at 20 CPM, lpm (gpm)	15 (4.00)	20 (5.25)	30 (8.00)	40 (10.50)	60 (15.90)	80 (21.10)

Max Recommended Continuous Cycle Rate (CPM)‡ **Sealed 4-ball lower:** 20 **Open/Enclosed wet cup lower:** 12 ([◊] only recommended rate is 12 CPM)

E-Flo Pump Specifications

Model	1500	2000	3000	4000
Output per Cycle	1500 cc	2000 cc	3000 cc	4000 cc
Electric AC Motor Size	3 HP	5 HP	5 HP	5 HP
Maximum Working Pressure bar (psi)	29 (425)	32 (460)	23 (330)	17 (250)
Output at 20 CPM lpm (gpm)	31 (8.1)	45 (12)	61 (16.2)	85.5 (22.6)

Max Recommended Continuous Cycle Rate (CPM)‡ **Sealed 4-ball lower:** 20 **Open/Enclosed wet cup lower:** 12

Endura-Flo Pump Specifications

Model	1500 cc	350 cc
Maximum fluid working pressure	28 bar (400 psi)	28 bar (400 psi)
Maximum air input pressure	7 bar (100 psi)	7 bar (100 psi)
Ratio	4:1	4:1
Output at 60 CPM lpm (gpm)	9 (2.37)	21 (5.54)
Maximum Recommended Continuous Cycle Rate	20 cpm	20 cpm

High-Flo Pump Specifications

Model	1.7:1	2:1	2.3:1	3:1	3.3:1	3.5:1	4:1	4.4:1	4.5:1
Pump Ratio	1.7:1	2:1	2.3:1	3:1	3.3:1	3.5:1	4:1	4.4:1	4.5:1
Output per Cycle	4000 cc	2000 cc	3000 cc	1500 cc	4000 cc	2000 cc	1000 cc	3000 cc	1500 cc
Motor Size	3400	2200	3400	2200	6500	3400	2200	6500	3400
Maximum Working Pressure bar (psi)	11.7 (170)	13.8 (200)	15.8 (230)	20.0 (290)	22.4 (325)	23.4 (340)	27.6 (400)	30.3 (440)	31.0 (450)
Maximum Air Input Pressure bar (psi)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)
Output at 60 CPM lpm (gpm)	238.6 (63)	119.3 (31.9)	179 (47.3)	87.9 (23.2)	238.6 (63)	119.3 (31.5)	64 (16.9)	179 (47.3)	87.9 (23.2)

Max Recommended Continuous Cycle Rate (CPM)‡ **Sealed 4-ball lower:** 20 **Open/Enclosed wet cup lower:** 12

President Pump Specifications

Pump Ratio	2:1	3:1
Output per cycle	890 cc	610 cc
Maximum Working Pressure bar (psi)	32 (460)	32 (460)
Maximum Air Input Pressure bar (psi)	12 (180)	10 (150)
Output at 60 CPM lpm (gpm)	53.5 (14.1)	36.4 (9.6)

Max Recommended Continuous Cycle Rate (CPM)‡ **Sealed 4-ball lower:** 20 **Open/Enclosed wet cup lower:** 12

Viscount Pump Specifications

Output per cycle	2000 cc	1500 cc	4000 cc	1000 cc	3000 cc	750 cc	2000 cc
Motor Size	Viscount I	Viscount I	Viscount II	Viscount I	Viscount II	Viscount I	Viscount II
Maximum Working Pressure bar (psi)	12 (167)	16 (225)	21 (300)	21 (300)	28 (400)	31 (450)	32 (460)
Maximum Air Input Pressure bar (psi)	103 (1500)	103 (1500)	83 (1200)	103 (1500)	83 (1200)	103 (1500)	83 (1200)
Oil Flow at 60 CPM lpm (gpm)	13.2 (3.5)	13.2 (3.5)	45 (12)	13.2 (3.5)	45 (12)	11.3 (3)	45 (12)
Output at 60 CPM lpm (gpm)	119.3 (31.5)	87.9 (23.2)	238.6 (63)	64 (16.9)	179 (47.3)	36.4 (9.6)	119.3 (31.5)

Max Recommended Continuous Cycle Rate (CPM)‡ **Sealed 4-ball lower:** 20 **Open/Enclosed wet cup lower:** 12

‡ Graco recommends a cycle rate of 20 CPM or less with the Sealed 4-ball Lower and 12 CPM or less with the Open/Enclosed Wet Cup 4-ball Lowers for continuous pumping applications.

Ordering Information & Reference Guide

E-FLO DC Circ Part Number Matrix

Electric	Circulation Pump	Lower Size	Motor Size, Controls & Approvals	Pump Type/Fittings	Mount
E = Electric	G=Circulation	1 = 750 cc	1 = 1 hp Motor, Basic Controls, ATEX/FM/IECEx	1 = Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, NPT Fittings	0 = No Stand
		2 = 1000 cc	2 = 1 hp Motor, Advanced Controls, ATEX/FM/IECEx	2 = Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings	1 = Stand
		3 = 1500 cc	3 = 2 hp Motor, Basic Controls, ATEX/FM/IECEx	3 = Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings	2 = Wall Mount Bracket
		4 = 2000 cc	4 = 2 hp Motor, Advanced Controls, ATEX/FM/IECEx	4 = Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings	
		5 = 3000 cc	5 = 1 hp Motor, Basic Controls, ATEX/IECEx/TIS/KCS	5 = Open Wet Cup SST Lower, Ultralife Rod & Cylinder, NPT Fittings	
		6 = 4000 cc	6 = 1 hp Motor, Advanced Controls, ATEX/IECEx/TIS/KCS	6 = Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings	
			7 = 2 hp Motor, Basic Controls, ATEX/IECEx/TIS/KCS		
			8 = 2 hp Motor, Advanced Controls, ATEX/IECEx/TIS/KCS		
			9 = 2 x 2 hp Motor, Advanced Controls, ATEX/FM/IECEx		
			0 = 2 x 2 hp Motor, Advanced Controls, ATEX/IECEx/TIS/KCS		

If **Basic** motor control is desired, your pump selection is complete. Refer to the Pump Selection Table below for your part number.

If **Advanced** motor control is desired, a Control Module and CAN Cable will be required. Determine the desired mounting location of the Control Module. The Control Module can be mounted directly on the pump or on a nearby wall. Select the appropriate CAN cable length

High flow rate circulation pumps (2X)
include the Control I Module and CAN Cable.
No additional equipment is required.

Motor Size & Controls	Approvals	Pump Type/Fittings	Mount	Output per Cycle	4000 cc																
					1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp
4000 cc					EC1241	EC2241															
3000 cc					EC1242	EC2242															
2000 cc					EC1540	EC2540															
1500 cc					EC1541	EC2541															
1000 cc					EC1542	EC2542															
750 cc					EC1640	EC2640															
Wall Mount Bracket			•		EC1641	EC2641															
Stand	•		•		EC1642	EC2642															
No Stand		•	•		EC1150	EC2150															
Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings					EC1151	EC2151															
Open Wet Cup SST Lower, Ultralife Rod & Cylinder, NPT Fittings					EC1152	EC2152															
Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings		•	•	•	•	•															
Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings					EC1250	EC2250															
Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings					EC1251	EC2251															
Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, NPT Fittings					EC1252	EC2252															
ATEX / IECEx / TIIS / KCS			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ATEX / FM / IECEx	•	•																			
Advanced Controls	•	•																			
Basic Controls			•	•	•																
Motor Size	1 hp		1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp	1 hp
	2 hp		2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp

Ordering Information & Reference Guide

Pump Type/Fittings	Mount	Output per Cycle	4000 cc											
			750 cc	1000 cc	1500 cc	2000 cc	3000 cc	4000 cc	EC22322	EC3322	EC4322	EC2322	EC322	EC422
Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings	Wall Mount Bracket	•	•	•	•	•	•	•	EC22322	EC3322	EC4322	EC2322	EC322	EC422
Open Wet Cup SST Lower, Ultralife Rod & Cylinder, NPT Fittings	Stand		•	•	•	•	•	•	EC22420	EC3420	EC4420	EC2420	EC3420	EC4420
Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings	No Stand	•	•	•	•	•	•	•	EC22421	EC3421	EC4421	EC2421	EC3421	EC4421
Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings									EC22422	EC3422	EC4422	EC2422	EC3422	EC4422
Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings									EC22330	EC3330	EC4330	EC2330	EC3330	EC4330
Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, NPT Fittings									EC22331	EC3331	EC4331	EC2331	EC3331	EC4331
ATEX / IECEx / TIIIS / KCS	Approvals								EC22332	EC3332	EC4332	EC2332	EC3332	EC4332
ATEX / FM / IECEx									EC22430	EC3430	EC4430	EC2430	EC3430	EC4430
Advanced Controls	Motor Size & Controls								EC22431	EC3431	EC4431	EC2431	EC3431	EC4431
Basic Controls									EC22432	EC3432	EC4432	EC2432	EC3432	EC4432
Motor Size									EC22440	EC3440	EC4440	EC2440	EC3440	EC4440
	Approvals								EC22441	EC3441	EC4441	EC2441	EC3441	EC4441
									EC22442	EC3442	EC4442	EC2442	EC3442	EC4442
									EC22450	EC3450	EC4450	EC2450	EC3450	EC4450
									EC22451	EC3451	EC4451	EC2451	EC3451	EC4451
									EC22452	EC3452	EC4452	EC2452	EC3452	EC4452
									EC22350	EC3350	EC4350	EC2350	EC3350	EC4350
									EC22351	EC3351	EC4351	EC2351	EC3351	EC4351
									EC22352	EC3352	EC4352	EC2352	EC3352	EC4352
									EC22360	EC3360	EC4360	EC2360	EC3360	EC4360
									EC22361	EC3361	EC4361	EC2361	EC3361	EC4361
									EC22362	EC3362	EC4362	EC2362	EC3362	EC4362
									EC22460	EC3460	EC4460	EC2460	EC3460	EC4460
									EC22461	EC3461	EC4461	EC2461	EC3461	EC4461
									EC22462	EC3462	EC4462	EC2462	EC3462	EC4462
									EC22710	EC3710	EC4710	EC2710	EC3710	EC4710
									EC22711	EC3711	EC4711	EC2711	EC3711	EC4711
									EC22712	EC3712	EC4712	EC2712	EC3712	EC4712
									EC22810	EC3810	EC4810	EC2810	EC3810	EC4810
									EC22811	EC3811	EC4811	EC2811	EC3811	EC4811
									EC22812	EC3812	EC4812	EC2812	EC3812	EC4812
									EC22820	EC3820	EC4820	EC2820	EC3820	EC4820
									EC22821	EC3821	EC4821	EC2821	EC3821	EC4821
									EC22822	EC3822	EC4822	EC2822	EC3822	EC4822

Motor Size & Controls	Approvals	Pump Type/Fittings	Mount	Output per Cycle	4000 cc		3000 cc		2000 cc		1500 cc		1000 cc		750 cc		Wall Mount Bracket		Stand		No Stand	
					2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp	2 hp
				EC2730	EC3730	EC4730																
				EC2731	EC3731	EC4731																
				EC2732	EC3732	EC4732																
				EC2830	EC3830	EC4830																
				EC2831	EC3831	EC4831																
				EC2832	EC3832	EC4832																
				EC2740	EC3740	EC4740																
				EC2741	EC3741	EC4741																
				EC2742	EC3742	EC4742																
				EC2840	EC3840	EC4840																
				EC2841	EC3841	EC4841																
				EC2842	EC3842	EC4842																
				EC2750	EC3750	EC4750																
				EC2751	EC3751	EC4751																
				EC2752	EC3752	EC4752																
				EC2850	EC3850	EC4850																
				EC2851	EC3851	EC4851																
				EC2852	EC3852	EC4852																
				EC2760	EC3760	EC4760																
				EC2761	EC3761	EC4761																
				EC2762	EC3762	EC4762																
				EC2860	EC3860	EC4860																
				EC2861	EC3861	EC4861																
				EC2862	EC3862	EC4862																
				EC4921	EC5921	EC6921																
				EC4931	EC5931	EC6931																
				EC4941	EC5941	EC6941																
				EC4961	EC5961	EC6961																
				EC4021	EC5021	EC6021																
				EC4031	EC5031	EC6031																
				EC4041	EC5041	EC6041																
				EC4061	EC5061	EC6061																

Ordering Information & Reference Guide

E-FLO Part Number Matrix

Power Source	Equipment Style	Motor	Sensor Circuit	Lower Size/Type
E = Electric	P = Pump	0 = No motor 1 = 230/400V, 5 HP, ATEX 2 = 230/400V, 5 HP, UL/CSA 3 = 230/400V, 3 HP, ATEX 4 = 230/400V, 3 HP, UL/CSA	0 = Not Installed 1 = Installed	1 = 2000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings 2 = 3000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings 3 = 4000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings 4 = 2000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, MaxLife Rod, MaxLife Cylinder, Tri-Clamp Fittings 5 = 3000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, MaxLife Rod, MaxLife Cylinder, Tri-Clamp Fittings 6 = 4000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, MaxLife Cylinder, Tri-Clamp Fittings 7 = 1500 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings 8 = 1500 cc, Enclosed Wet Cup SST Lower, Chromex Rod, MaxLife Cylinder, Tri-Clamp Fittings A = 2000 cc, Sealed SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings B = 3000 cc, Sealed SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings C = 4000 cc, Sealed SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings D = 2000 cc, Open Wet Cup SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings E = 3000 cc, Open Wet Cup SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings F = 4000 cc, Open Wet Cup SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings G = 1500 cc, Sealed SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings H = 1500 cc, Open Wet Cup SST Lower, Ultralife Rod, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings

Motor	Sensor Circuit	Stand Option	Lower Size/Type
			1500 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			1500 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			4000 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			3000 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			2000 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			4000 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			3000 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			2000 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings
			1500 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings
			1500 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings
			4000 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings
			3000 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings
			2000 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings
			4000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings
			3000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings
			2000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings
		Stand	
		No Stand	
		Installed	
		Not Installed	
			230/400V, 3 HP, UL/CSA
			230/400V, 3 HP, ATEX
			230/400V, 5 HP, UL/CSA
			230/400V, 5 HP, ATEX
		No Motor	
			EP0000
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			EP0338

E-FLO Continued

Motor	Sensor Circuit	Stand Option	Lower Size/Type														
				EP21A0	EP21B0	EP21C0	EP21A1	EP21B1	EP21C1	EP21D0	EP21E0	EP21F0	EP21D1	EP21E1	EP21F1	EP30G0	EP30G1
			1500 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			1500 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			4000 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			3000 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			2000 cc, Open Wet Cup SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			4000 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			3000 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			2000 cc, Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings														
			1500 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings														
			1500 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings														
			4000 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings														
			3000 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings														
			2000 cc, Enclosed Wet Cup SST Lower, Chromex Rod & MaxLife Cylinder, Tri-Clamp Fittings														
			4000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings														
			3000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings														
			2000 cc, Enclosed Wet Cup SST Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings														
		Stand															
		No Stand															
		Installed															
		Not Installed															
		230/400V, 3 HP, UL/CSA															
		230/400V, 3 HP, ATEX															
		230/400V, 5 HP, UL/CSA															
		230/400V, 5 HP, ATEX															
		No Motor															

Endura-Flo 4D150 Part Numbers

Part No.	Description/Size		NPT	Manifolds	BSPP	Tri-Clamp	NPT	Manifolds	BSPP	Tri-Clamp	NPT	Manifolds	BSPP	Tri-Clamp	NPT	Manifolds	BSPP
	Tri-Clamp	Manifolds															
24W345	ENDURA-FLO 4D150, TRI-CLAMP FITTINGS, 150 cc	•															
24W346	ENDURA-FLO 4D150, NPT FITTINGS, 150 cc		•												•		
24W347	ENDURA-FLO 4D150, BSPP FITTINGS, 150 cc			•												•	
24W348	ENDURA-FLO 4D150, TRI-CLAMP FITTINGS, DATATRAK, 150 cc		•													•	
24W349	ENDURA-FLO 4D150, NPT FITTINGS, DATATRAK, 150 cc		•												•		
24W350	ENDURA-FLO 4D150, BSPP FITTINGS, DATATRAK, 150 cc		•													•	
24W351	ENDURA-FLO 4D350, TRI-CLAMP FITTINGS, 350 cc														•		
24W352	ENDURA-FLO 4D350, NPT FITTINGS, 350 cc														•		
24W353	ENDURA-FLO 4D350, BSPP FITTINGS, 350 cc															•	
24W354	ENDURA-FLO 4D350, TRI-CLAMP FITTINGS, DATATRAK, 350 cc		•													•	
24W355	ENDURA-FLO 4D350, NPT FITTINGS, DATATRAK, 350 cc		•												•		
24W356	ENDURA-FLO 4D350, BSPP FITTINGS, DATATRAK, 350 cc		•													•	

Ordering Information & Reference Guide

High-Flo Part Number Matrix		Product Identifier		Lower Material		Pump Ratio		Motor Type		Lower Type, Fittings		
J = High-Flo Pumps	C = Carbon Steel S = Stainless Steel	L = Low Noise NXT M = Low Noise NXT with Datatrak R = Remote Exhaust NXT S = Remote NXT with Datatrak		L = Low Noise NXT M = Low Noise NXT with Datatrak R = Remote Exhaust NXT S = Remote NXT with Datatrak		17 = 1.7:1 / 3400 cc motor / 4000 cc lower 20 = 2:1 / 2200 cc motor / 2000 cc lower 23 = 2.3:1 / 3400 cc motor / 3000 cc lower 30 = 3:1 / 2200 cc motor / 1500 cc lower 33 = 3.3:1 / 6500 cc motor / 4000 cc lower 35 = 3.5:1 / 3400 cc motor / 2000 cc lower 40 = 4:1 / 2200 cc motor / 1000 cc lower 44 = 4.4:1 / 6500 cc motor / 3000 cc lower 45 = 4.5:1 / 3400 cc motor / 1500 cc lower 60 = 6:1 / 6500 cc motor / 2000 cc lower					1 = Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder, NPT Fittings 2 = Enclosed Wet Cup Lower, Chromex Rod, MaxLife Cylinder, NPT Fittings 5 = Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings 6 = Enclosed Wet Cup Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings 8 = Sealed SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings 9 = Open Wet Cup SST Lower, Ultralife Rod, Ultralife Cylinder, NPT Fittings 0 = Open Wet Cup SST Lower, Ultralife Rod, Ultralife Cylinder, Tri-Clamp Fittings	

High-Flo Continued

Lower Material	Motor Type	Lower Material, Fittings										Ratio	4.5:1
		3.1	3.3:1	3.5:1	4:1	4.4:1	4.5:1	JS30M6	JS35M6	JS40M6	JS45M6		
Open Wet Cup Lower, Chromex Rod & Chrome Cylinder		JS20M6		JS30M6		JS35M6		JS40M6		JS45M6		JS45R6	
Open Wet Cup SST Lower, Ultralife Rod & Cylinder Tri-Clamp Fittings		JS20R6		JS30R6		JS35R6		JS40R6		JS45S6		JS45L8	
Open Wet Cup SST Lower, Ultralife Rod & Cylinder, NPT Fittings		JS20S6		JS30S6		JS35S6		JS40S6		JS45M8		JS45R8	
Sealed SST Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings		JS20L8		JS30L8		JS35L8		JS40L8		JS45S8		JS45L9	
Enclosed Wet Cup Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings	•	JS20M8		JS30M8		JS35M8		JS40M8		JS45R9		JS45L0	
Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings	•	JS20R8		JS30R8		JS35R8		JS40R8		JS45S9		JS45M0	
Enclosed Wet Cup Lower, Chromex Rod & MaxLife Cylinder, NPT Fittings	•	JS20S8		JS30S8		JS35S8		JS40S8		JS45R0		JS45L0	
Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder, NPT Fittings	•	JS20L9		JS30L9		JS35L9		JS40L9		JS45S0		JS45L9	
S = Remote Exh. NXT + Datatrak	•	JS20M9		JS30M9		JS35M9		JS40M9		JS45M9		JS45R9	
R = Remote Exhaust NXT	•	JS20R9		JS30R9		JS35R9		JS40R9		JS45R9		JS45L0	
M = Low Noise NXT with Datatrak	•	JS20S9		JS30S9		JS35S9		JS40S9		JS45S9		JS45M0	
L = Low Noise NXT	•	JS20L0		JS30L0		JS35L0		JS40L0		JS45L0		JS45R0	
Stainless Steel	•	JS20M0		JS30M0		JS35M0		JS40M0		JS45M0		JS45R0	
Carbon Steel	•	JS20R0		JS30R0		JS35R0		JS40R0		JS45R0		JS45L0	
		JS20S0		JS30S0		JS35S0		JS40S0		JS45S0		JS45L9	
								703MSN*		704MSN*		704MS8*	
								703SSN*		704SSN*		704SS8*	
								703MST*		704MST*		704SS8*	
								703SST*		704SST*		704MS9*	
								703MS8*		704MS8*		704SS9*	
								703SS8*		704SS8*		704MS9*	
								703M9*		704M9*		704MS0*	
								703SS9*		704SS9*		704MS0*	
								703SS0*		704SS0*		704MS0*	

* Package includes pump, wall bracket, air controls and DataTrak

Ordering Information & Reference Guide

Lower Part Numbers

Lower Material	Lower Type, Fittings	Size	Lower Part Numbers		
			2000 cc	1500 cc	1000 cc
Stainless Steel	Open Wet Cup Lower, Chromex Rod & Chrome Cylinder	•	17K660	17K661	17K662
Stainless Steel	Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder, Tri-Clamp Fittings	•	17K656	17K657	17K658
Stainless Steel	Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder, NPT Fittings	•	17K668	17K669	17K670
Stainless Steel	Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder, NPT Fittings	•	17K664	17K665	17K666
Stainless Steel	Open Wet Cup Lower, Ultralife Rod & Cylinder, NPT Fittings	•	24F420	24F431	24F439
Stainless Steel	Sealed Lower, Ultralife Rod & Cylinder, Tri-Clamp Fittings	•	24F413	24F424	24F432
Carbon Steel	Stainless Steel	•	24F415	24F426	24F434
Carbon Steel	Carbon Steel	•	24F441		

President Part Numbers

Lower Material	Configuration	Lower Type	Fittings	Output Per Cycle	Ratio	President Part Numbers		
						890 cc	610 cc	
Stainless Steel	3:1	2:1	24H629	24H628				
Stainless Steel	3:1	2:1	24H997	24H627				
Stainless Steel	Tri-Clamp		24J075					
Stainless Steel	NPT		24J074					
Stainless Steel	Open Wet Cup Lower, Chromex Rod & Chrome Cylinder		17E222	17E225				
Stainless Steel	Open Wet Cup Lower, Ultralife Rod & Cylinder		17E223	17E226				
Stainless Steel	Sealed Lower, Ultralife Rod & Cylinder		17E224	17E227				
Stainless Steel	Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder		17E228	17E229				
Stainless Steel	Stubby							
Stainless Steel	Standard							
Stainless Steel	Stainless Steel							
Stainless Steel	Carbon Steel							

Connection Kits

Lower Type	President	President Stubby	NXT/E-Flo DC	Bulldog/Senator	E-Flo	Viscount I	Viscount II
Sealed	17K523	N/A	17K525	17K517	17K524	17K519	17K520
Open/Enclosed Wet Cup	24J185	24J186	288209	24F508	N/A	24F065	24J390

Connection Kits contain all the components (tie rods, adapters) required for changing to a different lower style. Refer to manual 311876 for complete info.

Viscount Part Numbers

Lower Material	Lower Type	Fittings	Output Per Cycle					
			2000 cc	1500 cc	4000 cc	1000 cc	3000 cc	750 cc
Carbon Steel	Viscount I	Viscount II						
Stainless Steel	Viscount I	Viscount II						
Chromex Rod & Cylinder	Viscount I	Viscount II	24E331	24E328	24E340	24E325	24E337	24E334
Ultralife Rod & Cylinder	Viscount I	Viscount II	17E230	17E234		17E238		17E242
MaxLife Cylinder	Viscount I	Viscount II	24E491	24E489	24E341	24E487	24E338	24E485
Chrome Cylinder	Viscount I	Viscount II	24E492	24E490	24E342	24E388	24E339	24E494
Open Wet Cup Lower, Chromex Rod & Cylinder	Tri-Clamp	NPT	•	•	•	•	•	•
Open Wet Cup Lower, Ultralife Rod & Cylinder	Tri-Clamp	NPT		•		•		
Sealed Lower, Ultralife Rod & Cylinder	Tri-Clamp	NPT			•			
Enclosed Wet Cup Lower, Chromex Rod & MaxLife Cylinder	Tri-Clamp	NPT				•		
Enclosed Wet Cup Lower, Chromex Rod, Chrome Cylinder	Tri-Clamp	NPT	•		•			



Accessories

Air Supply Controls

217074	Air filter (40 micron)
181521	High volume air regulator 200 cfm - 5.2 bar (75 psi) max
206197	High volume air regulator 200 cfm - 8.6 bar (125 psi) max
207755	High volume air regulator 380 cfm - 8.6 bar (125 psi) max
214849	Air lubricator – 3/4 npt(f), 0.45 kg (16 oz) bowl capacity
217072	Air Filter-Regulator-Lubricator (FRL) kit (2200/3400)
217073	Air Filter-Regulator-Lubricator (FRL) kit (6500)
222345	Air Filter-Regulator-Lubricator (FRL) kit (2200/3400/Gluton with hose, bracket, gauge and swivel adapters)
NXT011	Integrated air control for NXT air motors

Back Pressure Regulators (BPR)

208997	Mechanical – 56.8 lpm - 14 bar (200 psi) max fluid pressure, 1-1/4 npt
236770	Mechanical – 16.3 lpm - 12.4 bar (180 psi) max fluid pressure, 3/8 npt
916154	Carbide mechanical – 56.8 lpm - 14 bar (200 psi) max fluid pressure, 1-1/4 npt
288117	Pnuematic – 75.7 lpm - 21 bar (300 psi) max fluid pressure, 1-1/4 npt
288311	Pnuematic – 75.7 lpm - 21 bar (300 psi) max fluid pressure, 1-1/2 npt
288262	Pnuematic – 75.7 lpm - 21 bar (300 psi) max fluid pressure, 2 in tri-clamp
224486	Low shear mechanical – 75.7 lpm, 21 bar (300 psi) max fluid pressure, 1-1/2 npt
223824	Low shear mechanical – 75.7 lpm, 21 bar (300 psi) max fluid pressure, 2 in sanitary
15J498	Pnuematic BPR conversion kit
24E709	BPR kit for 750 cc lowers

Fittings

15J422	Inlet/Outlet Fitting for 1-1/2 tri-Clamp to 1-1/2 NPT
17K780	Inlet/Outlet Fitting for 1-1/2 tri-clamp to 1 NPT
16F044	Inlet/outlet fitting for 1 NPT to 1 BSPP
16F045	Inlet/outlet fitting for 1-1/2 NPT to 1-1/2 BSPP
16F046	Inlet/outlet fitting for 2 NPT to 2 BSPP
15J423	Inlet/outlet fitting for 2 tri-clamp to 2 NPT
15J639	Inlet/outlet fitting for 1-1/2 tri-clamp to 2 tri-clamp
17K779	Inlet/Outlet Right Angle Adapter for 1-1/2 tri-clamp to 1-1/2 tri-clamp
118598	1-1/2 clamp (tri-clamp)
120351	PTFE w/elastomer sanitary gasket
680454	Solid PTFE sanitary gasket

Fluid Filter

244053	Low pressure PTFE encapsulated fluoroelastomer SST (Mesh 60)
247479	Kit for 3/4 NPT(f) SST fluid filter kit
247480	Kit for 1 NPT(f) SST fluid filter kit
247474	Carbon steel fluid filter kit
915515	Low pressure bag filter – 56.8 lpm 21 bar (300 psi), CS
915516	Low pressure bag filter – 56.8 lpm 21 bar (300 psi), SST
915517	Low pressure bag filter – 113.6 lpm 21 bar (300 psi), CS
915518	Low pressure bag filter – 113.6 lpm, 21 bar (300 psi), SST
213057	Red alert low pressure filter – 22.7 lpm, 30 Mesh, 3/4 NPT
213058	Red alert low pressure filter – 22.7 lpm, 60 Mesh, 3/4 NPT
213059	Red alert low pressure filter – 22.7 lpm, 100 Mesh, 3/4 NPT
213060	Red alert low pressure filter – 22.7 lpm, 150 Mesh, 3/4 NPT
213061	Red alert low pressure filter – 22.7 lpm, 200 Mesh, 3/4 NPT
213062	Red alert low pressure filter – 75.7 lpm, 30 Mesh, 3/4 NPT
213063	Red alert low pressure filter – 75.7 lpm, 60 Mesh, 3/4 NPT
213064	Red alert low pressure filter – 75.7 lpm, 100 Mesh, 3/4 NPT
213065	Red alert low pressure filter – 75.7 lpm, 150 Mesh, 3/4 NPT
213066	Red alert low pressure filter – 75.7 lpm, 200 Mesh, 3/4 NPT

Gauge

187875	Gauge – 2.1 bar (30 psi) max, SST
187874	Gauge – 7 bar (100 psi) max, SST
187873	Gauge – 14 bar (200 psi) max, SST
187876	Gauge – 21 bar (300 psi) max, SST

Torqueable Wet Cup Kits

24F144	Kit for 750-2000 cc lowers
24F145	Kit for 3000-4000 cc lowers

E-Flo Motor Accessories

24H372	ACS Module
16A630	TDC & Position Sensor Barrier
16A633	Pressure Transducer Barrier
15V331	Ethernet IP Gateway Assembly
15V963	DeviceNet Gateway Assembly
15V964	Profibus Gateway Assembly
120373	Local I/O box
15J755	Sensor circuit kit (for series D and earlier)
245305	Sensor circuit kit (for series D and later)

Endura-Flo Kits

17H315	Floor Stand Kit
17H316	Endura-Flo 4D350 DataTrak Air Valve
17H317	Endura-Flo 4D350 Standard Air Valve
17H318	Endura-Flo 4D150 DataTrak Air Valve
17H319	Endura-Flo 4D150 Standard Air Valve
24Y304 [†]	Endura-Flo 4D150 DataTrak Conversion Kit
24Y306 [†]	Endura-Flo 4D350 DataTrak Conversion Kit

Hydraulic Motor Accessories

189305	Assembly tool for servicing yoke and trip rod (Viscount™ I)
253483	Intake valve seat with relief valve, carbide seat (Viscount I)
239865	Intake valve seat without relief valve, carbide seat (Viscount I)
237744	Intake valve seat, with internal pressure relief valve (Viscount II)
180529	Intake valve seat, without relief valve (Viscount II)
515258	Hydraulic pressure control valve 3/4 npt inlet, 3/4 npt outlet, 1/4 npt drain, 1/4 npt gauge
512150	Hydraulic shutoff valve 140 bar (2000 psi) max, 1/2 NPT (fbe)
102644	Hydraulic shutoff valve 210 bar (3000 psi) max, 3/4 NPT (fbe)
102646	Hydraulic shutoff valve 210 bar (3000 psi) max, 1/2 NPT (fbe)
169236	Hydraulic oil 18.9 l (5 gal) size

Pneumatic Motor Accessories

NXT206	DataTrak upgrade kit for the NXT 2200
NXT306	DataTrak upgrade kit for the NXT 3400
NXT606	DataTrak upgrade kit for the NXT 6500

Mounting Hardware

255143	Wall Bracket for all NXT and Viscount Motors
253692	Stand for NXT, E-Flo DC and Viscount Motors (750-2000 cc)
218742	Stand for NXT and Viscount Motors (3000-4000 cc)
247312	Wall mount and floor stand adapter for NXT 2200 motor
16E086	Wall mount and floor stand adapter for Viscount I, I+ motor
287884 ^{**}	Heavy duty cart
287919 ^{**}	Light duty cart
222011	Grounding Clamps
15H884	Stand for E-Flo

Accessories

Suction Kits

247475	For 1-1/2 NPT(f) - 19 l (5 gallon) - SST suction kit
247476	For 1-1/2 NPT(f) - 208 l (55 gallon) - SST suction kit
247477	For 2 NPT(f) - 19 l (5 gallon) - SST suction kit
247478	For 2 NPT(f) - 208 l (55 gallon) - SST suction kit
24E709	Circulation kit - 16.3 lpm - 14 bar (200 psi) max

Surge Tanks

238987	High volume 75.7 lpm - 21 bar (300 psi) - SST - 2 NPT
238988	High volume 75.7 lpm - 21 bar (300 psi) - SST - 1-1/2 NPT
218509	High volume 75.7 lpm - 42 bar (600 psi) - SST - 2 NPT - carbide
218742	Floor stand

E-Flo DC Motor Accessories

24R050	Pressure Transducer, NPT 35 bar (500 psi)
24X089	Pressure Transducer, Inline Tri-clamp 35 bar (500 psi)
24Y245	Pressure Transducer, NPT 350 bar (5000 psi)
16V103	Transducer Extension Cable
24V001	Pneumatic BPR Control System
16U729	Run/Stop Switch
16M172	15 m (50 ft) Fiber Optic Cable
16M173	30 m (100 ft) Fiber Optic Cable
17B160	100 m (330 ft) Fiber Optic Cable
24R086	Fiber/Serial Converter Kit
24N978	Single Fiber Optic Converter (for adding additional fiber optic converters to 24R086)
15V331	Ethernet IP Gateway Assembly

E-Flo DC Motors

EM0011	1 hp Motor, Basic Controls [§]
EM0012	1 hp Motor, Advanced Controls [§]
EM0013	1 hp Motor, Basic Controls ^{§§}
EM0014	1 hp Motor, Advanced Controls ^{§§}
EM0021	2 hp Motor, Basic Controls [§]
EM0022	2 hp Motor, Advanced Controls [§]
EM0023	2 hp Motor, Basic Controls ^{§§}
EM0024	2 hp Motor, Advanced Controls ^{§§}
EM0025**	2 hp Motor (for "2X" E-Flo DC 2000-4000cc Circulation Pumps), Advanced Controls [§]
EM0026**	2 hp Motor (for "2X" E-Flo DC 2000-4000cc Circulation Pumps), Advanced Controls ^{§§}

[†] Kit includes replacement air valve compatible with solenoid

^{**} System requires two motors

[§] ATEX/FM/IECEx

^{§§} ATEX/FM/TIIS/KCS



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.

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